FINAL WELL REPORT

for the
Onshore Well

NHOC/PanCanadian Port au Port No. 1

These data are considered privileged and any disclosure shall be governed by s 53 of the Petroleum Regulations and/or s 154 of the Petroleum Drilling Regulations.

RELEASE DATE
AUG 1 1997
Petroleum Resource Development Division
Department of Mines and Energy

VOLUME 4

Appendix IV
Geophysical Data

and

Appendix V
Production Test Data

NEWFOUNDLAND HUNT OIL COMPANY INC.

JULY 1996

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ACRONYMS

Note: The following presents most, but not all, the abbreviations encountered in the text of this report

ADW ..... Authority To Drill A Well
BOP ..... blow out preventer
COND ..... condensate
d ..... day
DPA ..... Drilling Program Approval
GR ..... Gamma Ray
h ..... hour
IADC ..... International Association of Drilling Contractors
kg ..... kilogram
km ..... kilometer
LCM ..... lost circulation material
m ..... meter
min ..... minute
mm ..... millimeter
mW ..... mega Watt
NAD ..... North America Datum
NHOC ..... Newfoundland Hunt Oil Company Inc.
OD ..... outside diameter
PAP ..... Port au Port
PCP ..... PanCanadian Petroleum Limited
RKB ..... rig kelly bushing
RWP ..... replaceable wear pad
SPF ..... shots per foot
UTM ..... Universal
WTR ..... Well Termination Record
XO ..... cross-over

CONVERSION FACTORS

English units	to	SI Units	multiply by
bbl	.....	m^3	..... 0.1589873
ft	.....	m	..... 0.3048
hp	.....	W	..... 745.6999
in	.....	mm	..... 25.4
lb	.....	kg	..... 0.4535924
mi	.....	km	..... 4.0234
ppg	.....	kg/m^3	..... 119.8264

dates ..... year - month - day
time ..... xx hr xx min

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FINAL WELL REPORT

NHOC/PanCanadian Port au Port No. 1

APPENDIX IV

GEOPHYSICAL TEST DATA

NEWFOUNDLAND HUNT OIL COMPANY INC.

JULY 1996

FINAL WELL REPORT

NHOC/PanCanadian Port au Port No. 1

APPENDIX IV

GEOPHYSICAL TEST DATA

IV - 1 Biostratigraphy/Palynological/Paleontological Report
..... E. Burden & H.S. Williams

NEWFOUNDLAND HUNT OIL COMPANY INC.

JULY 1996

REPORT TO HUNT OIL CO. - PAN CANADIAN PETROLEUM LTD.

BIOSTRATIGRAPHY AND THERMAL MATURITY OF STRATA IN HUNT - PAN CANADIAN PORT AU PORT WELL # 1

Elliott T. Burden and S. Henry Williams

1995

CONFIDENTIAL

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Doug Hostad/Jule den Haan
Hunt Oil Company
1450, 801 - 6th Avenue SW
Calgary, ALberta
T2P 3W2

April 28, 1995

Dear Doug,

We enclose two copies of our Final Report on the Port au Port #1 Well. As discussed previously, we will submit a separate appendix containing details of any additional samples once drilling is completed, plus revised copies of any figures affected by the new data.

We will submit our invoice under separate cover at the beginning of next week.

We trust that the work will meet with your approval.

Yours,

Elliott Burden and Henry Williams

REPORT TO HUNT OIL CO. - PAN CANADIAN PETROLEUM LTD.

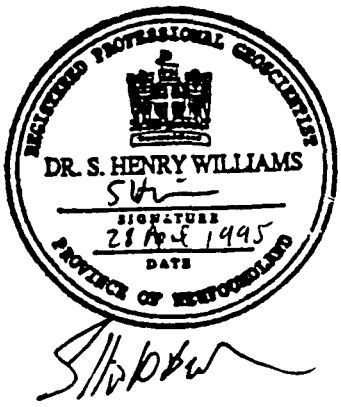
BIOSTRATIGRAPHY AND THERMAL MATURITY OF STRATA IN HUNT-PAN CANADIAN PORT AU PORT WELL #1

FINAL CONTRACT REPORT

***Elliott T. Burden, B.Sc., Ph.D., P.Geo.**

and

#S. Henry Williams, B.Sc., Ph.D., P.Geo.



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Confidential report submitted to Hunt Oil 28 April 1995

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nb. An appendix giving results from any additional samples and impacts on conclusions made in this report will be submitted following completion of the well

EXECUTIVE SUMMARY

The stratigraphic succession above the Round Head Thrust is similar to that predicted through seismic modelling by Hunt and Pan Canadian prior to start of drilling. As drilling progressed, paleontology played a key role in establishing the presence of the Winterhouse Formation in the footwall, the presence of a basal interval of the Long Point Group which is not exposed at surface, the absence of the allochthon in this section, the recognition of the Springs Inlet Member or Aguathuna Formation as a reservoir zone, and the stratigraphic identity of other potential reservoirs (e.g., Boat Harbour Formation) and possible source rocks (e.g., Forteau Formation). Conclusions based on palynology, conodonts and graptolites demonstrate that multiple approaches must be used to characterize the rocks in this frontier area. The general conclusions of this study are outline below.

Graptolites and palynology demonstrate that the dark grey siliciclastic strata of the Winterhouse Formation is essentially a shallow marine sequence equivalent to the Utica and Macasty formations of the eastern United States and Canada. Abundant acritarchs and amorphous matter in the Winterhouse Formation suggests that it may be an organic rich source rock. Winterhouse strata immediately below the thrust are, however, immature. Thermal maturity increases downwards within this unit and the middle to lower part of the formation is marginally mature. The Winterhouse is not thought to be a significant source rock for this well.

A dramatic increase in thermal alteration occurs at the upper boundary of the Goose Tickle Group; significant burial and uplift apparently occurred here. Reworked and in situ fossils suggest that these rocks were sourced from thrusts formed farther to the east. The significance of this event is thought to lie in determinations of thermal maturity for underlying strata and by extension an explanation for the identical thermal maturity for the hangingwall block.

Calculated time-temperature indices (TTI's) using a method outlined by Waples and Lopatin are interpreted to suggest that underlying Cambrian and Lower Ordovician strata entered the oil window soon after the Goose Tickle Group was deposited - that is after the Taconic Orogeny. Given the suggested approximations for the TTI's of this well, the underlying Cambrian strata reached their full thermal maturity at or before Acadian tectonism and certainly before movement on the Round Head Thrust. In contrast, Upper Cambrian and Lower Ordovician strata enter their phase of peak oil generation after Acadian tectonism, while Upper Ordovician strata are not thought to be significant oil producers in this area. Dramatic uplift and erosive phases must be invoked both during the middle Ordovician (late Llanvirn-early Caradoc) and post Ordovician (Silurian-Devonian?) to accommodate the observed

stratigraphic succession.

Suggested source rocks in the Cambrian and Lower Ordovician platform have previously included the Black Cove and March Point Formations. To this we would add the Forteau Formation. Everywhere it is seen in outcrop it is overmature, having been heated to near greenschist facies conditions on the Northern Peninsula and in southern Labrador. In Port au Port Well #1 we see for the first time abundant acritarchs and amorphous material in our preparations from this unit, in concentrations rivalling or exceeding those observed from the Winterhouse Formation. The Forteau Formation lies below the Hawke Bay sandstone - a potential reservoir rock. Both formations passed through the oil window during or close to the Acadian orogeny; according to Waples' TTI numbers the strata can still host hydrocarbons with an API gravity of 40-50.

The sequence encountered in the well represents the most complete single section from Middle Ordovician to early Cambrian and Precambrian strata in Newfoundland. It will become an important reference section for years to come, and also lends credence to other suggested potential plays in western Newfoundland which consider thin skinned tectonics and overthrusting of overmature Precambrian and Lower Paleozoic rocks over target strata.

COMPARISON OF SUBSURFACE WITH LOWER PALEOZOIC STRATA EXPOSED IN WESTERN NEWFOUNDLAND

No attempt is made here to provide an exhaustive comparison of strata observed in the well within their counterparts exposed both on the Port au Port Peninsula and elsewhere in western Newfoundland. Rather, we concentrate on a few stratigraphic units for which the paleontological data had important implications.

Long Point Group

Although graptolites from this unit were generally rare and poorly preserved in Hunt-Pan Canadian Well #1, a greater number of biostratigraphic divisons were recognised than has so far been possible in surface exposures. The subsurface lower and middle Winterhouse Formation appears to be similar to the sequence of dark grey shales, silts and calcarenites exposed on Long Point. The upper part is characterized by graptolites indicative of the *G. pygmaeus* Zone (Plate 1). Acritarchs, including abundant *Veryhachium oklahomense* (Plate 2) and rare *Ordovicidium* (Plate 3), confirm the graptolites as late Caradoc or perhaps early Ashgill. In outcrop, this interval is represented by a brown and red sandstone sequence on Long Point. Only the basal part of that unit is fossiliferous, yielding a shallow marine macrofauna of brachiopods, trilobites and gastropods (O'Brien, unpublished thesis; L. Quinn, S.H.W. and others, work in progress). In outcrop, the upper part appears to be fluvial in origin. This confirms suggestions that the sediments of the Winterhouse Formation were largely deposited in a shoreline, storm-dominated clastic sequence, and indicates that the site of Hunt-Pan Canadian Well #1 was in a marginally more offshore setting that that seen on Long Point.

The stratigraphic range of the Winterhouse Formation from the *C. spiniferus* to *G. pygmaeus* zones (middle Caradoc to early Ashgill?) overlaps substantially with the age of the Utica and Macasty formations of the north-eastern mainland. Acritarchs provide some hints to the possibility of a detailed biostratigraphy, particularly in the sequential appearance of relatively abundant *Leiovalia*, *Veryhachium trispinosum*, *V. setosapellicula*, and *Baltisphaeridium annelieae* (Plates 2 and 3). Given the uniqueness of this acritarch study, namely, one which uses fluorescence microscopy as an aid to taxonomy, this will only be confirmed by additional coring and outcrop studies.

Acritarch abundances as a proxy measure for organic richness (Figure 1) confirm the Winterhouse Formation as a possible source rock. We suggest that the better fine-grained,

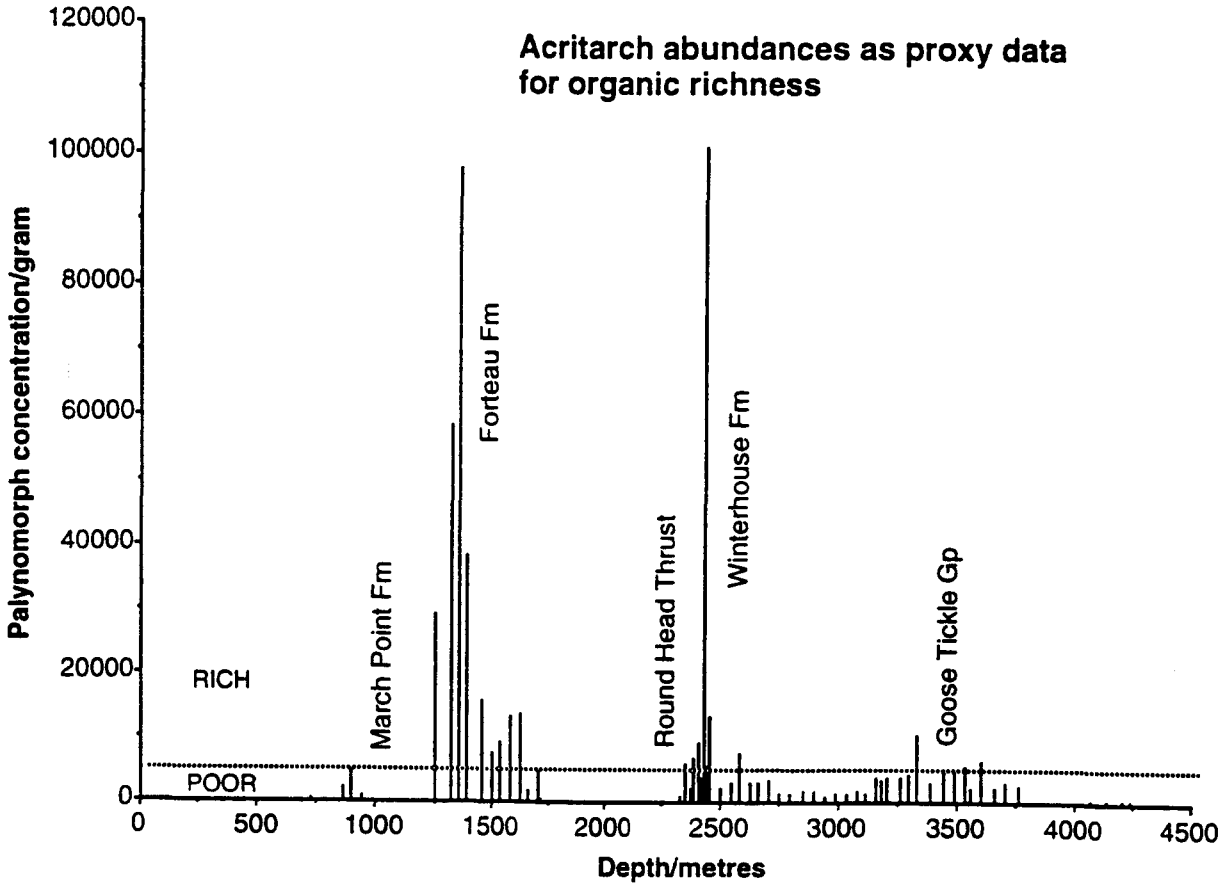


Figure 1. Acritarch abundances in Port au Port #1

organic-rich "Utica" sediments are likely to occur farther offshore to the west of the Port au Port Peninsula. Their easternmost limit and thermal maturity would, however, have to be determined through a combination of seismic surveys and drilling work.

The gradual transition from the Winterhouse Formation into the limestone-dominated Lourdes Formation appears to be similar in both subsurface and outcrop. Evidence from well site descriptions, e-logs, graptolites and conodonts suggests the presence of two new units, not observed in outcrop, and lying below the typical massive shelly limestones and calcarenites of the Lourdes Formation. The interval from 3195 to 3220 m is a dark grey, silty-shaly unit yielding early Caradoc (pre-Winterhouse) graptolites, referred informally by us as "Sub-Lourdes B", while from 3220 to 3255 m the rock is a peloidal to micritic limestone unit here referred to "Sub-Lourdes A" (Figure 2). The lower unit is generally barren, but yielded conodonts from one sample similar to those from the Lourdes Formation. We therefore consider both units to be of early (but not earliest) Caradoc age, equivalent to the *D. multidens* Zone of the U.K.

Upper and lower boundaries of the Goose Tickle Group

The boundary between the Lourdes and Goose Tickle, at 3255 m, is sharp. A particularly noticeable change is the occurrence of common green chlorite crystals in the high density fraction of samples processed for conodonts. Louise Quinn (unpublished thesis, Memorial University of Newfoundland) considered this chlorite to represent altered serpentinite clasts derived from ophiolitic material. There is also a dramatic increase in TAI across the contact, from about 2.2 in the basal Long Point Group to 2.6 or higher in the Goose Tickle Group (Plate 3). We consider that this represents a major hiatus, marking an interval when at least 1.5 km of overburden were deposited then removed from the top of the Goose Tickle Group. This confirms the popularly (but not unanimously) held model whereby this contact at the surface represents a major disconformity. The exact duration of the break is uncertain because of poor biostratigraphic control, but could be of the order of 10 to 15 million years (middle Llanvirn to early/middle Caradoc).

It now appears that the Cape Cormorant Formation is not actually present in the well, initial observations having been distorted due to abundant cavings. The majority of the Goose Tickle Group is lithologically most similar to the American Tickle Formation as defined by Louise Quinn (unpublished thesis, Memorial University of Newfoundland). Whether the gradation into the underlying Black Cove Formation occurs here is unclear. Graptolites occur throughout the Goose Tickle Group, but because the sliver-like cuttings derived from this

interval were almost invariably split across bedding, identification of stratigraphically diagnostic taxa was not possible

Table Head, St. George and Port au Port Group carbonates

The Goose Tickle Group rests either on the Table Cove Formation, or possibly directly on the Table Point Formation, of the Table Head Group. Unfortunately, most samples from what have now been assigned to the various formations of the Table Head and St. George groups did not yield conodonts. Occasional rare elements were, however, invaluable in confirming which units were present and provided approximate levels in the well at which to draw lithostratigraphic boundaries (Plate 4). They were particularly important in establishing the presence of the Boat Harbour Formation during drilling. Conodonts first evolved during the late Cambrian, so are absent in the Port au Port Group with the exception of the upper Berry Head Formation. Palynomorphs were generally absent or rare throughout the Middle Ordovician to Middle Cambrian carbonate sequence. Large, granular spheres, fusiform cysts and scattered chitinozoans in the Catoche through Berry Head strata do, however, provide limited biostratigraphic resolution (Plate 5). Graptolites were completely absent apart from some possible rooted forms in the Berry Head Formation of the hanging wall.

Forteau Formation

This unit appears to be broadly similar in Port au Port #1 to that seen in outcrop on the Northern Peninsula (it is not exposed on the Port au Port Peninsula) with one notable exception; in the well it lies within the oil window, while further north it is approaching lower greenschist facies. It is probably for this reason that although little organic material occurs in outcrop samples, palynomorphs are abundant in subsurface cuttings from the well. The combination of this high particulate organic content and evidence for anoxic deposition in terms of black shales leads us to suspect that the Forteau Formation should be a good contender for a hydrocarbon source rock whenever preserved within the oil window. This hypothesis will, however, need to be tested via TOC analysis.

Acritarch assemblages from the Forteau Formation are typically dominated by very abundant spheres and clusters of spheres. Diverse taxa are present in smaller numbers. Important early Cambrian genera including *Liepaina*, *Pterospermella*, *Granomarginata*, *Lophosphaeridium*, *Volkovia*, *Retisphaeridium* and *Skiagia* (Plates 5 and 6) suggest that one or more of the early, if not earliest Cambrian biozones identified from eastern Europe are present in this formation.

Acritarch abundances as a proxy indicator for organic richness can be taken to suggest that the Forteau Formation is at least as rich as the overlying Winterhouse Formation. The combination of abundant particulate organics, the lithologic evidence for anoxic deposition, and thermal maturity all present favourable indicators that the Forteau Formation is a good hydrocarbon source rock.

THERMAL MATURATION INDICES AND SUBSURFACE THERMAL HISTORY

Thermal Maturation Indices measured from fossil colour and fluorescence spectra and calibrated against other data (Figure 3) provide a reliable measure of organic metamorphism and maximum burial temperatures. Cuttings form the only data base for Port au Port #1; quality is in many instances compromised by cavings and suspected reworking. During the study, we found that Conodont Alteration Index values (CAI's), which are commonly used as a measured of thermal maturity in Paleozoic strata, were insensitive and apparently somewhat unreliable in the thermal range being studied (i.e., above and within the oil window). The Thermal Alteration Index (TAI), based on organic particles including palynomorphs, proved to be most useful. Our conclusions rely, therefore, almost entirely on the latter measurement. Two interpretations, an empirical approach using the basic data and a semi-quantitative approach using Waples' Time-Temperature Indices (TTI's) are presented below; more are possible.

Empirical Analysis

The simplest way to view thermal alteration is to present the basic data against well stratigraphy (Figure 4). For Port au Port #1 it is clear that the pre-Taconic platform carbonates and clastics of the hanging wall block and the footwall block, near the bottom of the well lie at the bottom of the oil window, and border on overmature. TAI values around 3.0 correspond to brown coloured fossils with no fluorescence characteristics; burial temperatures can exceed 100°C to achieve this level of organic maturation. The superposition of these rocks on one another indicates that Pre-Taconic platform rocks achieved their thermal maturation characteristics before movement of the Round Head Thrust; hydrocarbons were thus generated before the Devonian and Carboniferous.

Winterhouse strata in the footwall immediately below the Round Head Thrust are immature, with TAI's of less than 1.5 on the lightest coloured fossils (Plate 7). Near the bottom of the Winterhouse-Lourdes succession, nearly 1000 m below the footwall of the

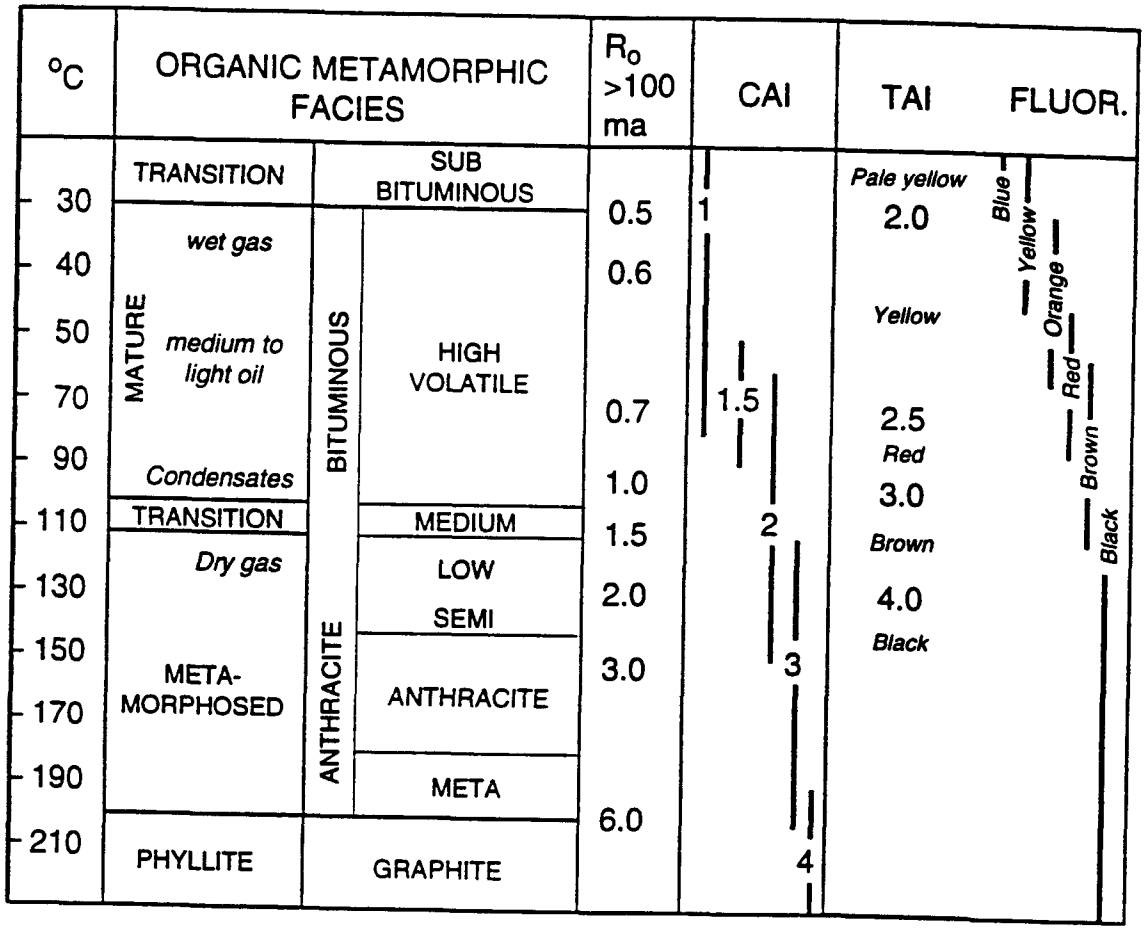


Figure 3. Correlation between thermal maturity indices for Lower Paleozoic strata (from Williams and Burden, unpublished manuscript in preparation)

Round Head Thrust, thermal maturation levels creep into the oil window. Typical Lourdes strata have in situ TAI's between 2.0 and 2.3; This corresponds with temperatures less than 50°C. Inasmuch as Winterhouse strata are said to be organic rich, and therein a potential source rock, they have not, in our opinion, been buried deep enough or long enough to generate any of the hydrocarbons in this well.

The Goose Tickle Group, a rather thin unit in this well, is fundamentally different in both lithology and thermal maturation indices from the overlying footwall strata. Organic residues show bi- and multi-modal peaks from cavings which give anomalously low values, and reworked material which gives anomalously high values. If our assessment is correct, the true value for the TAI is 2.6 or perhaps slightly higher and corresponds with burial temperatures on the order of 70°C to 80°C. To us, this thermal maturity jump at the boundary of the Lourdes and Goose Tickle corresponds to an episode of significant burial and exhumation as the Taconic allochthon, farther to the east, loaded and depressed the crust. Measured sections of the Goose Tickle Group can be at least 2 km thick; we hypothesize at least 1.5 km of burial and exhumation occurred before any Lourdes strata were deposited on the Goose Tickle Group.

Two other hypothesized episodes of burial and exhumation correspond with the upper Ordovician and Silurian Anticosti sequence (not otherwise seen in Newfoundland) and the Siluro-Devonian Clam Bank succession. Inasmuch as the significance of these events will be discussed in more detail in the next section, it will be noted here that, under normal geothermal gradients, post-Taconic and pre- or early-Acadian sedimentation provide ample opportunity to bury Cambro-Ordovician platform rocks to depths at or below the oil window - that is to TAI's of 3.0 or more.

Time-temperature indices (TTI's)

Thermal Alteration Indices do not tell the full story of organic maturation; the present bottom-hole temperature, time, and changes to the geothermal gradient must also be considered. Waples, using methods originally outlined by Lopatin, developed and tested a set of mathematical indices for predicting the stratigraphic position and geologic development of the oil window. This has significance in developing structural and stratigraphic plays. Thus, by plotting the present geothermal gradient (calibrated against pre-Neogene surface temperatures of about 20°C), and using back-stripping to determine burial history, a simple synthetic model is produced for the maturation history for the footwall strata of the Port au Port #1 Well (Figure 5).

Variables, somewhat arbitrarily constrained, include the geothermal gradient with a pre-

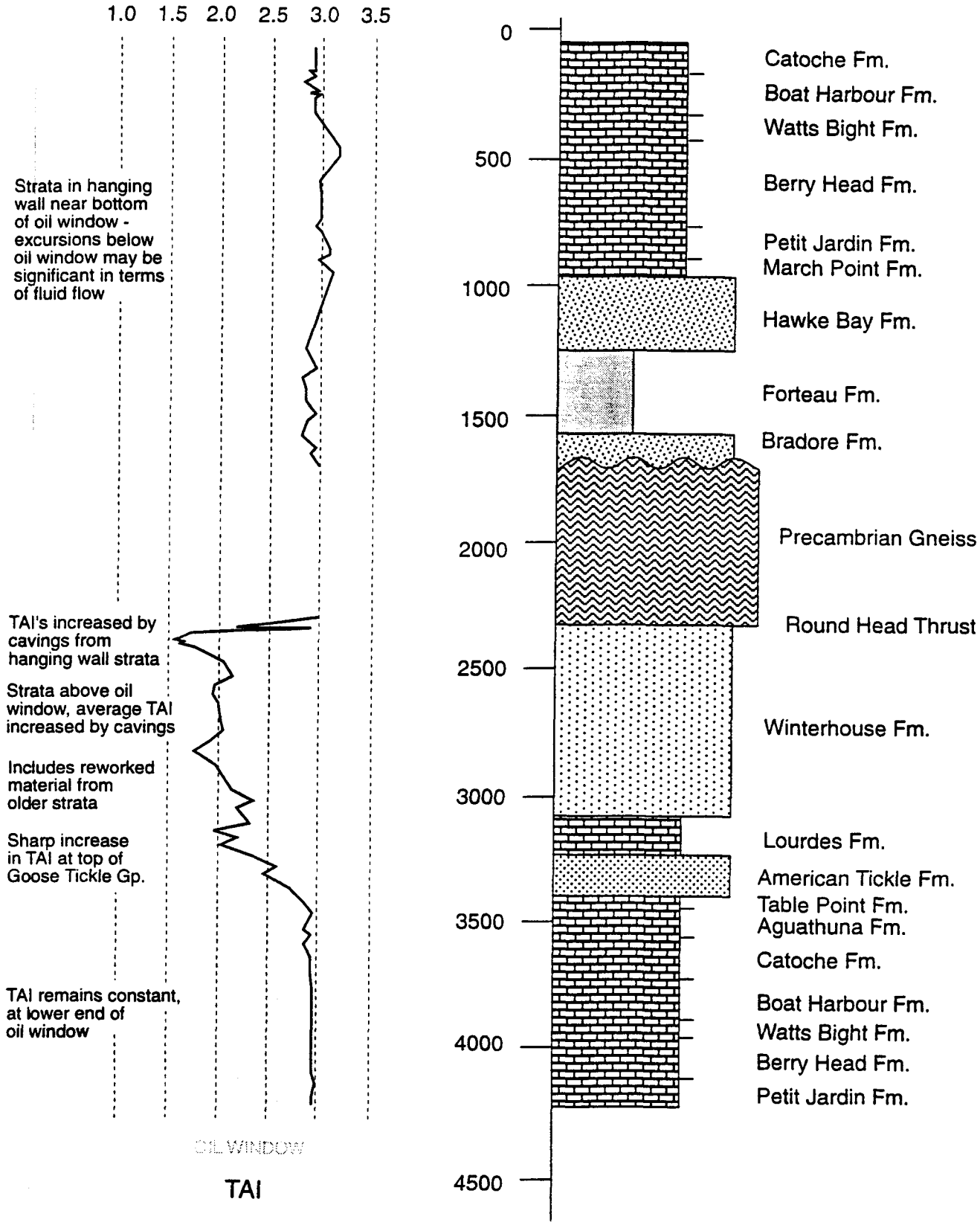


Figure 4. TAI values plotted against well depth and stratigraphy

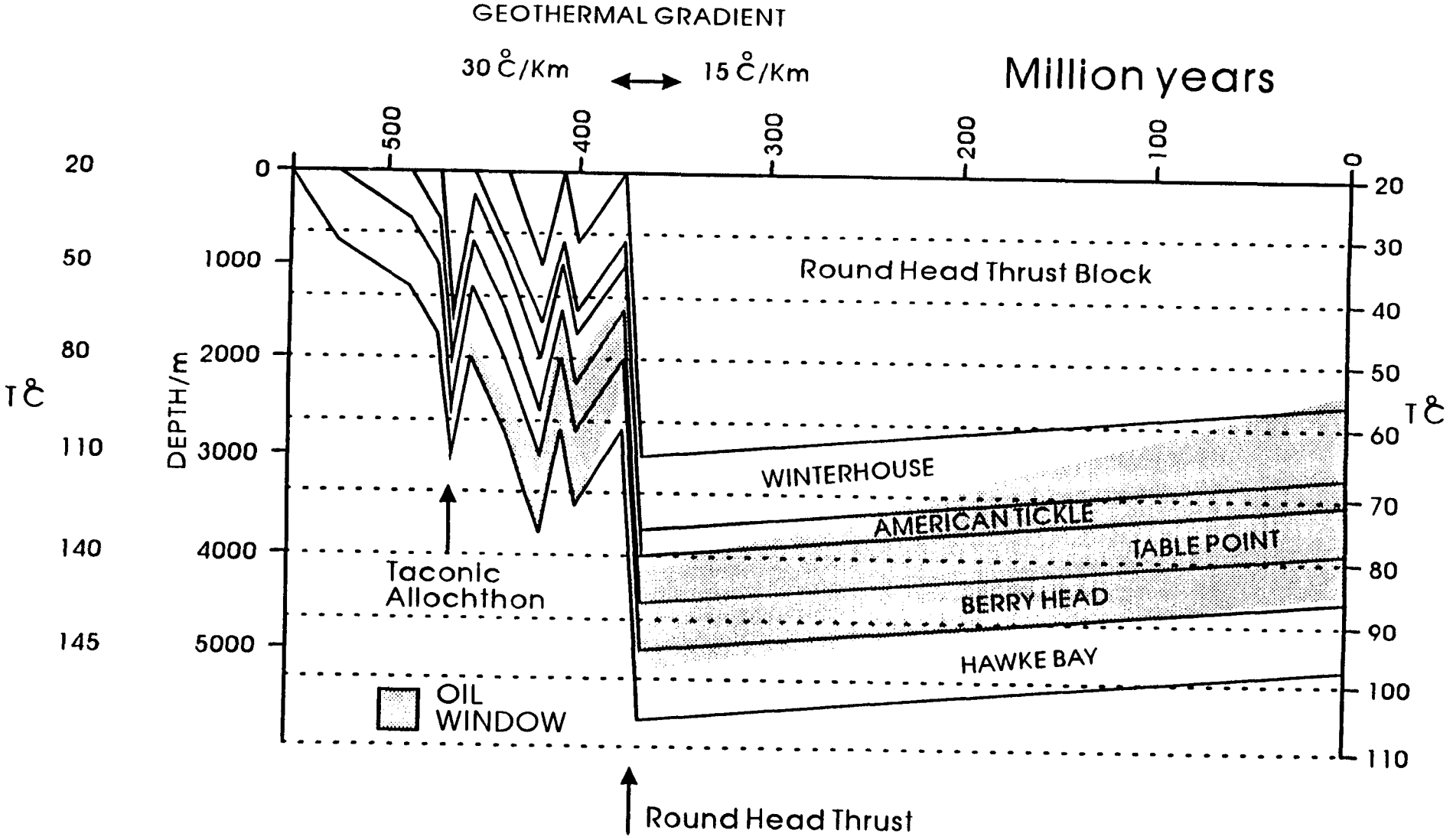


Figure 5. Time-burial plot for strata in Port au Port #1

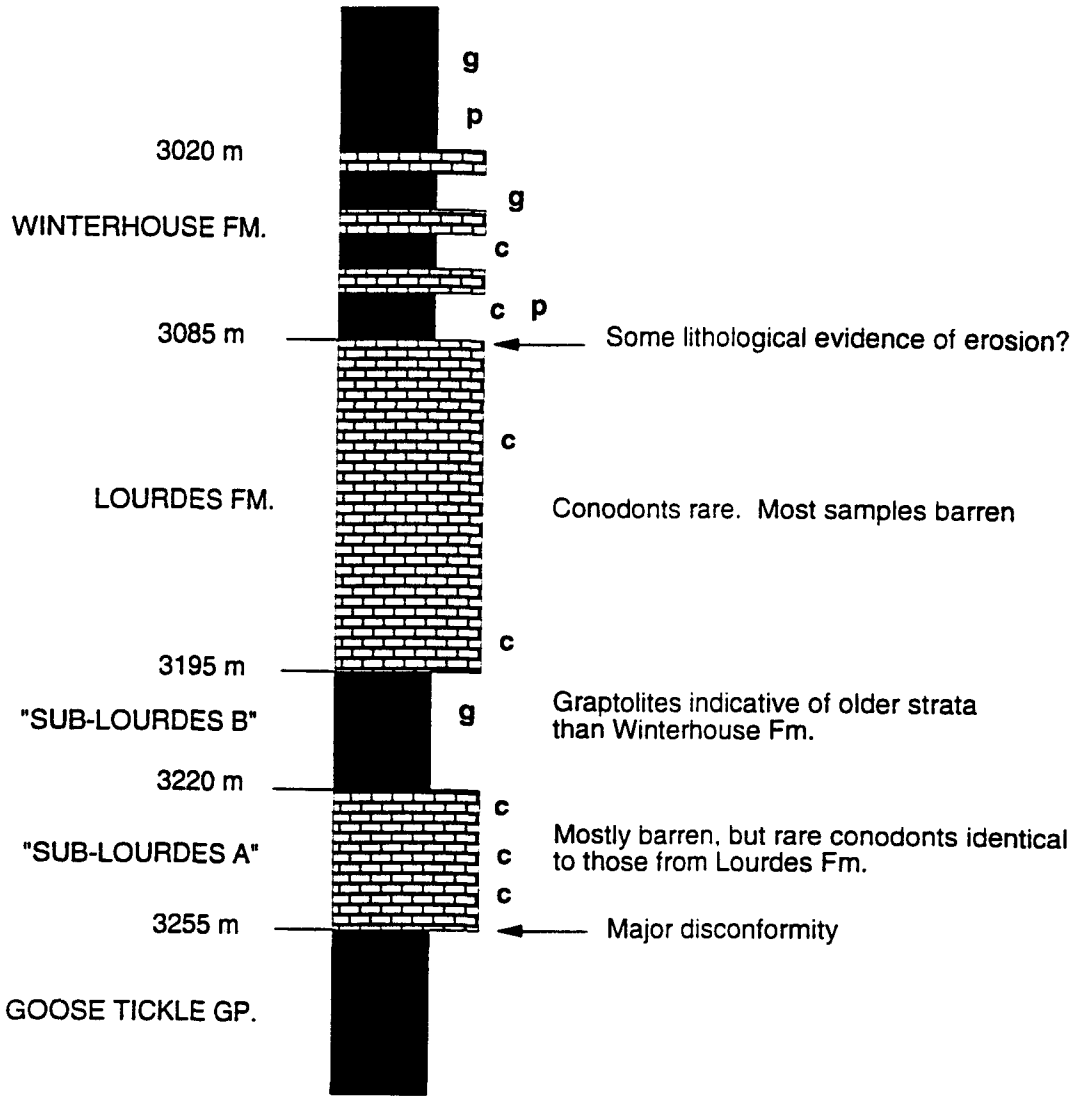


Figure 2. Schematic section of transition between the Goose Tickle and Long Point groups

Neogene surface temperature, a higher pre-Carboniferous geothermal gradient, three episodes of burial and exhumation (Goose Tickle, Anticosti, and Clam Bank), and a rather small amount of crustal loading from the Round Head Thrust. Changes to any of these variables can have an effect on the development of the oil window and therein the nature of the hydrocarbon play. Each is outlined in some detail.

To our advantage, the similar thermal histories for Cambro-Ordovician platform strata lying above and below the thrust indicates that the basic thermal history was set over a relatively short period early in the Paleozoic. The Round Head Thrust has little to do with hydrocarbon maturation in this well and, furthermore opens the suggestion that other thin-skinned tectonic plays can be developed.

The geothermal gradient 15°C/km is rounded from our present estimate for the bottom hole temperature (55°C at 4000 m) and recalibrated to remove Newfoundland's ice age temperatures. It is assumed this gradient remained constant for the 360 Ma since the end of the Appalachian Orogeny.

An average geothermal gradient is said to be about 25°C/km; this can increase significantly in tectonically active regions. In part for presentation purposes, a gradient of 30°C/km is shown for the early Paleozoic. With significant intrusive and volcanic activity taking place farther east, there is every liklihood the gradient was higher. Thick sediment deposits are not required to achieve thermal maturity before movement started on the Round Head Thrust.

Backstripping to determine burial histories include three hypothesized burial and exhumation events. The total burial depth for the Goose Tickle is based on well records for mature rocks and on outcrop records showing thick deposits in the region. The Anticosti succession is speculative for the Port au Port well. It is based on nearly 1000 m of strata contained on Anticosti Island and presumed to have at one time extended as far as Newfoundland. The third event, the Clam Bank Siluro-Devonian succession is observed in outcrop on the Port au Port Peninsula. There is no doubt in our minds that it contributed in some way to the pre-Acadian burial history of the Cambro-Ordovician platform strata. The maximum known thickness for the Clam Bank is about 600 m - offshore seismic records hint at much thicker Siluro-Devonian deposits.

Given that the outlined constraints approximate real conditions, the Hawke Bay, Berry Head and Table Point successions entered the oil window after the Taconic Orogeny and during that enigmatic time of Winterhouse-Anticosti-Clam Bank sedimentation and erosion (Figure 5). According to Waples' TTI correlations, Hawke Bay strata and by inclusion, the

Forteau Formation, passed through the interval of peak oil generation and in part, end of oil generation in the early Devonian. In contrast, Berry Head, Table Point, and Goose Tickle source rocks really only enter their phase of peak oil generation after Acadian tectonism and after movement on the Round Head Thrust. Winterhouse, while mathematically in the oil window is not in our opinion a significant hydrocarbon source in this model.

The single stratigraphic unit which may yet be important as a source rock is the Forteau Formation. Having passed through the oil window, our calculations of TTI numbers for the Hawke Bay, and including the Forteau, indicates that hydrocarbons with an API gravity of 40° - 50° are still stable in these rocks.

PALEONTOLOGICAL TECHNIQUES EMPLOYED

During this work, a combination of microfossils, including conodonts and palynomorphs (mostly acritarchs), and graptolites was employed in order to provide biostratigraphic control, elucidation and/or confirmation of lithostratigraphic units and determination of thermal maturation levels. A "background" sample spacing of approximately 20 m for conodonts and 50 m for palynomorphs was used; this however, varied considerably, depending on rock type and approximate age of stratigraphic unit. Graptolites were employed whenever observed. Several critical intervals were subjected to intense processing for conodonts, using all samples received.

Palynomorph processing was carried out using standard techniques. A *Lycopodium* spike was added to weighed samples (typically 10 to 30 g) to allow concentrations to be calculated. In addition, slides were prepared before and after sieving and before and after oxidation; this allows determinations for amorphous matter in the residue and fluorescence spectra on unoxidized fossils. Fluorescence spectra and thermal alteration indices for fossils were determined by comparison with a table of standardized colours calibrated against a master chart (Figure 3) of vitrinite reflectance (R_o) and Conodont Alteration Indices (CAI). The suggested temperatures are based, in part, on fluid inclusion data from nearby outcrops.

Conodont processing was also based on standard techniques for that type of fossil, but was tailored to suit the unusual small sample size (100-300 g after washing, as opposed to normal sizes of 2-4 kg) and to maximize the advantage of using small cuttings rather than large blocks of sediment. Both factors permitted processing times of two to three days when needed, rather than the standard two to four weeks. Acetic acid was used with limestone samples, but formic acid processing became the norm once dolomitized units were

encountered. Graptolites were observed and identified without processing other than some excavation with scalpel and forceps.

The following conclusions may be made concerning our approach:

1. Conodonts (0.1-0.5 mm) proved to be precise and reliable biostratigraphic indicators in upper Cambrian and later strata. Recovery was, however, poor due to small sample size, except in the upper part of the well where air drilling was employed. Even so, they proved the key to understanding the stratigraphy of the Ordovician carbonate succession in the well and in identifying the hydrocarbon-rich horizons. Conodonts have been widely used in thermal maturation studies; comparison with TAI data in this study suggests, however, that CAI's show little change within and around the oil window.

2. Palynomorphs (10-150 μm) have not been as thoroughly documented from the Lower Paleozoic of western Newfoundland as conodonts and graptolites. Although the potential remains for very accurate age assessment, they by and large provided secondary confirmation of ages in those rocks which contained conodonts and graptolites. Palynomorphs were invaluable in elucidating the thermal maturation history of strata in the well.

3. Identifiable graptolites were unexpected in the well due to the small size of cuttings; a number of species were, however, found, particularly in fine-grained sandstones of the Winterhouse Formation and associated strata of the Long Point Group.

4. Given the right circumstances, all three fossil groups provide excellent markers for thermal maturation of the rocks. We, however, prefer the palynomorphs, as they are practically ubiquitous in Port au Port strata and provide a more accurate measure of thermal maturity in the critical region of the oil window. Unpublished studies on outcrop samples by Burden and Williams, combined with the work done here, has permitted a precise integration of the three kinds of maturation measurement.

5. As with all drilling work, cavings commonly posed a problem to obtaining reliable biostratigraphy and thermal maturation indices. Fine-grained sediments in the Forteau Formation, Winterhouse Formation and Goose Tickle Group were particularly prone to caving.

Note that in the summaries of fossil data which follow, lithological, biostratigraphic or chronostratigraphic assignments are only given for those samples in which the fossil assemblage is sufficient to deduce them with some certainty. Conodont work was subcontracted to Felicity O'Brien; most palynomorph identification work was subcontracted to Grace Parsons. Processing was done by Henry Williams and Helen Gillespie (subcontract to Terraquest) using the facilities of CERR at Memorial University of Newfoundland.

WINTERHOUSE FM. GRAPTOLITES

Geniculograptus pygmaeus
(2605 m, Upper Winterhouse Fm. (x20)

Climacograptus spiniferus
(2525 m, Lower-Middle Winterhouse Fm. (x20)

Glyptograptus cf. G. hudsoni
(2845 m, Middle Winterhouse Fm. (x20)

Orthograptus calcaratus cf. basilicus
(2695-2700 m Middle Winterhouse Fm. (x10)

(3045 m, x20)

(2465 m, x10)

Amplexograptus cf. A. praetypicalis
(Lower Winterhouse Fm.)

PLATE 2

Palynomorphs from the Winterhouse Formation photographed under fluorescent light. Slide reference includes the well depth of the sample, the preparation number, and the grid reference for the specimen taken on the Leitz fluorescent microscope.
All figures x 1120.

Fig. 1. *Ordovicidium groetlingboense*
Slide reference Hunt Oil 2540m (1): 23.2, 81.6

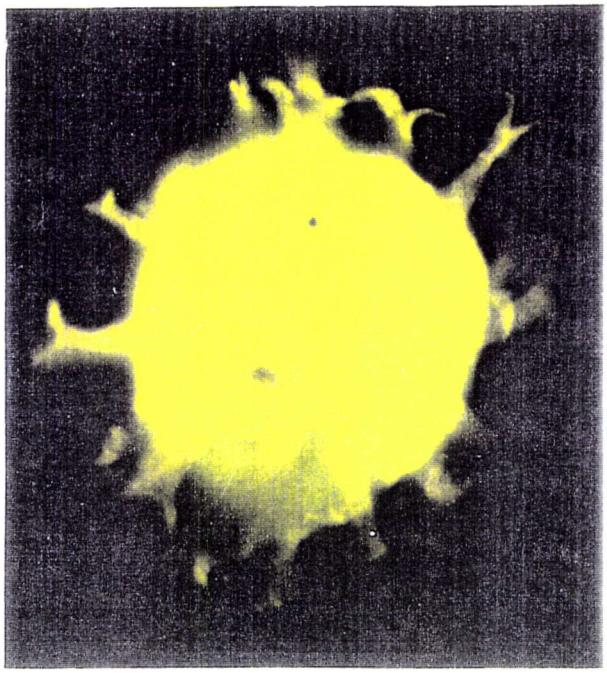
Fig. 2. *Leiovalia* sp.
Slide reference Hunt Oil 2620m (1): 18.7, 79.5

Figs. 3, 4. *Multiplicisphaeridium cladum* sensu Colbath
Slide reference Hunt Oil 2620m (1): 9.7, 82.3
Slide reference Hunt Oil 2620 (1): 22.5, 99

Fig. 5. *Micrhystridium* sp.
Slide reference Hunt Oil 2405m (1): 18, 102.3

Fig. 6. *Veryhachium* sp.
Slide reference Hunt Oil 2405m (1): 12.9, 80.2

Figs. 7, 8. *Veryhachium oklahomense*
7. Slide reference Hunt Oil 2405 (1): 9, 99.9
8. Slide reference Hunt Oil 2405m (1): 11, 81



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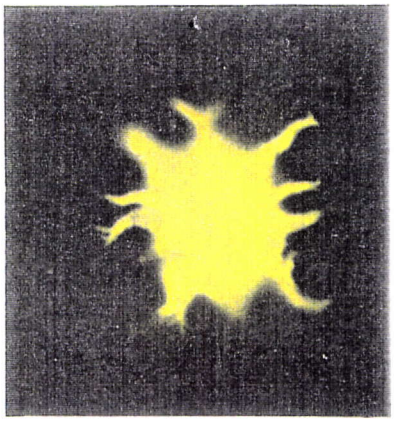

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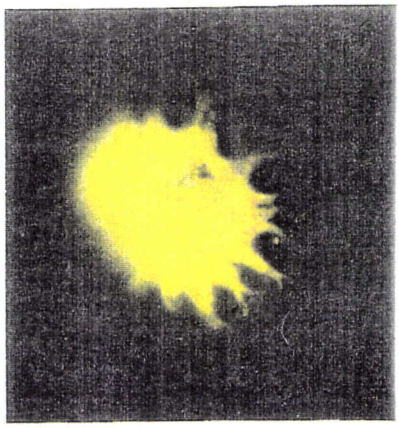

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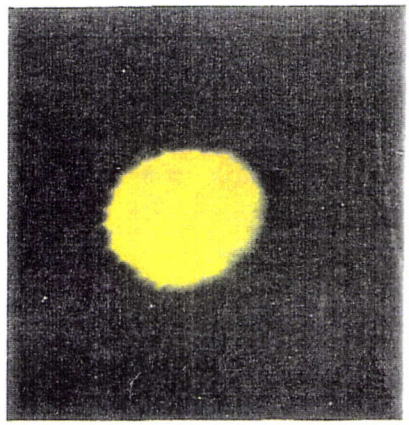

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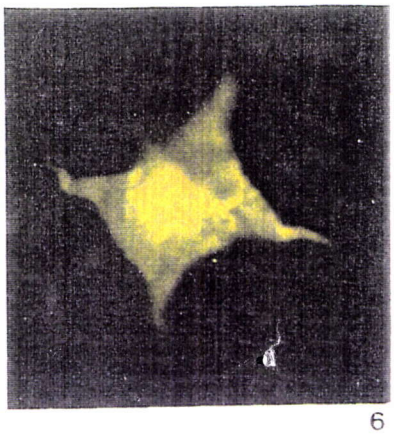

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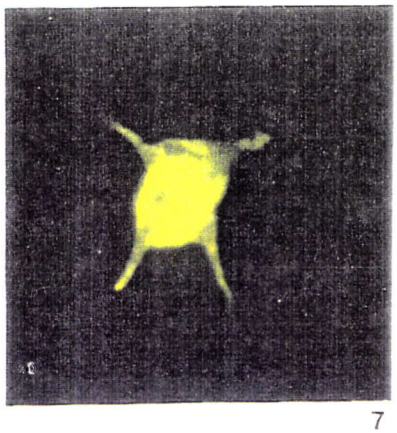

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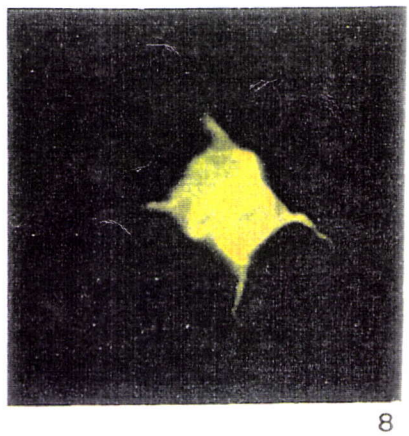

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PLATE 3

Palynomorphs from the Winterhouse Formation and Goose Tickle Group taken with interference contrast.
Slide reference includes the well depth of the sample, the preparation number, and the grid reference for the specimen taken on the Leitz fluorescent microscope.
All figures x 1120 unless otherwise indicated.

Fig. 1. *Ordovicidium groetlingboense*
Slide reference Hunt Oil 2540m (1): 23.2, 81.6. Winterhouse Formation.

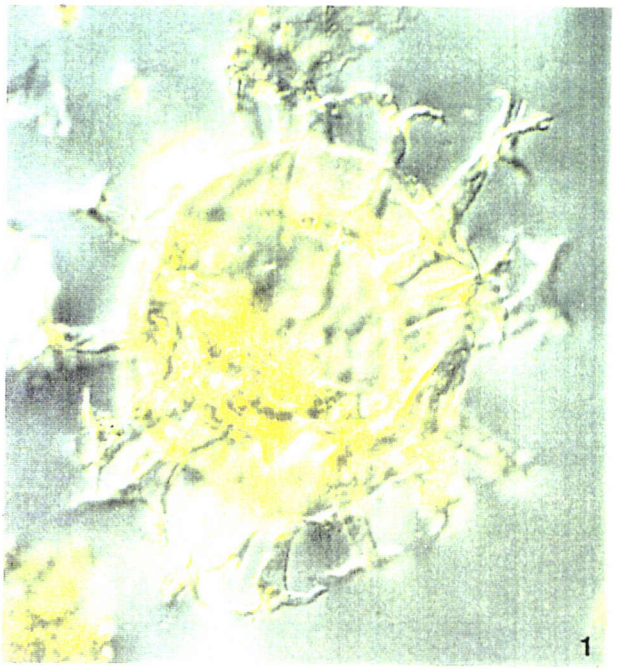
Fig. 2. *Ordovicidium* sp.
Slide reference Hunt Oil 2540m (1): 13.3, 73. Winterhouse Formation.

Fig. 3. *Veryhachium* sp. A of Jacobson and Achab
Slide reference Hunt Oil 2495m (1): 14.8, 101. Winterhouse Formation.

Fig. 4. Genus and species unidentified.
Slide reference Hunt Oil 2540m (2): 4, 92. Winterhouse Formation (x 1260).

Fig. 5. *Veryhachium setosapellicula*
Slide reference Hunt Oil 3075m (1): 16, 81. Lower Winterhouse Formation.

Fig. 6. Large dark sphaeromorph. First appears in the Goose Tickle Group.
Slide reference Hunt Oil 3385m (4): 6.6, 87. Goose Tickle Group (x710).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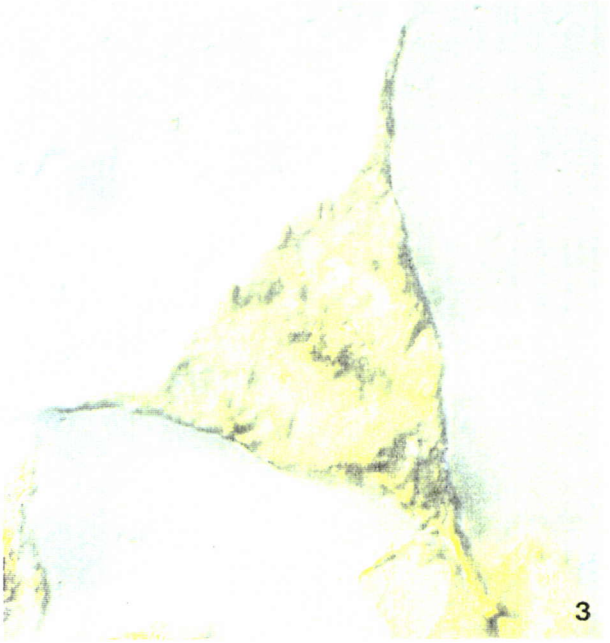
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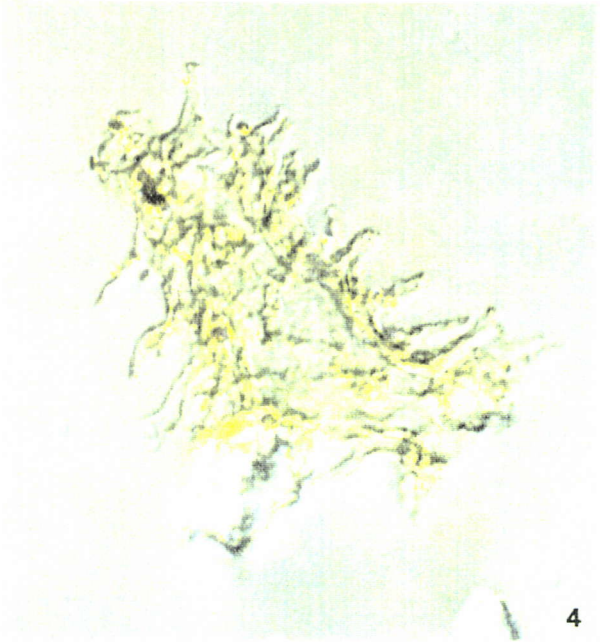
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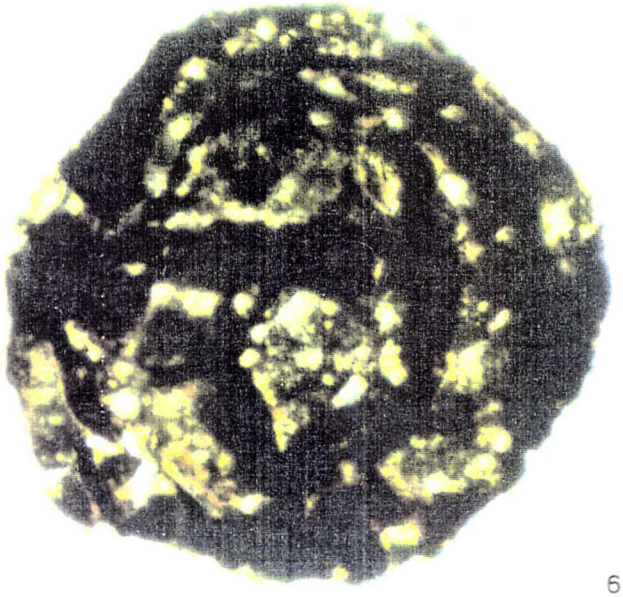
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PLATE 4

Representative conodonts from Port au Port Well #1

1. *Panderodus serratus*. 3055 m, Winterhouse Fm. (x90).
2. *Walliserodus* sp. cf. *W. curvatus*. 2905 m, Winterhouse Fm. (x90)
3. *Stultodontus costatus*. 40 m, Catoche Fm. (hanging wall) (x70)
4. *Glyptoconus multicostatus*. 40 m, Catoche Fm. (hanging wall) (x70)
5. *Scolopodus subrex*. 3665 m, Upper Boat Harbour Fm. (x70)
6. *Glyptoconus emarginatus*. 140 m, Middle Boat Harbour Fm. (hanging wall) (x90)
7. *Macerodus dianae*. 220 m, Middle Boat Harbour Fm. (hanging wall) (x90)
8. *Rossodus manitouensus*. 280 m, Lower Boat Harbour Fm. (hanging wall) (x90)
9. *Loxodus bransoni*. 280 m, Lower Boat Harbour Fm. (hanging wall) (x50)
10. *Rossodus tenuis*. 300 m, Lower Boat Harbour Fm. (hanging wall) (x70)
11. *Teridontus obesus*. 4015 m, Upper Watts Bight Fm. (x70)
12. *Teridontus nakamurai*. 4095 m, Upper Berry Head Fm./Lower Watts Bight Fm. (x90)

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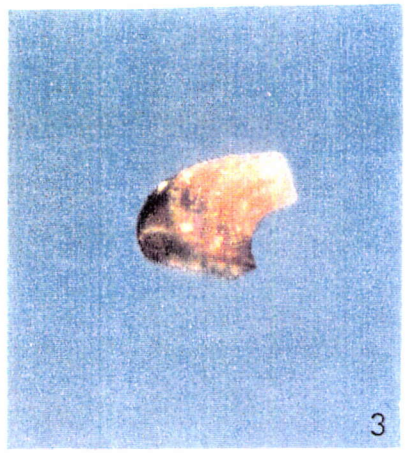
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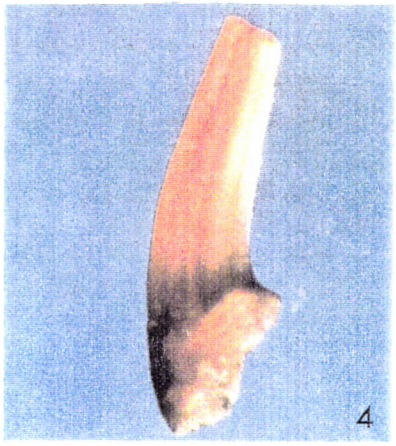
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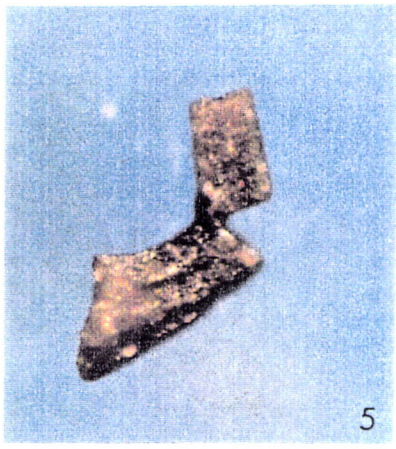
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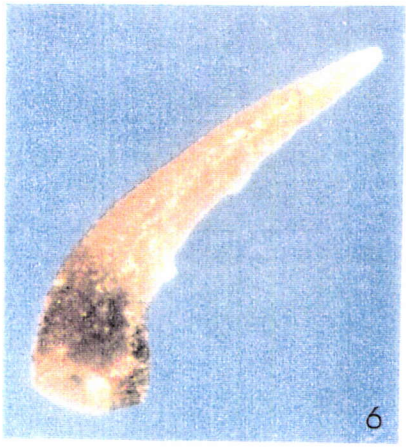
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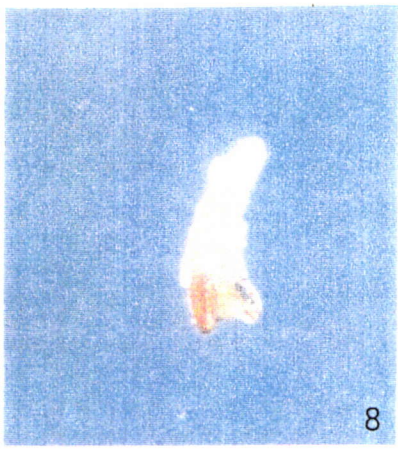
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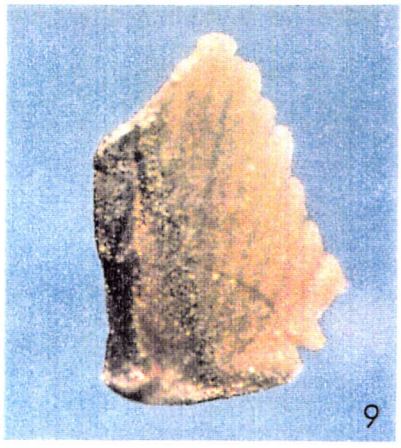
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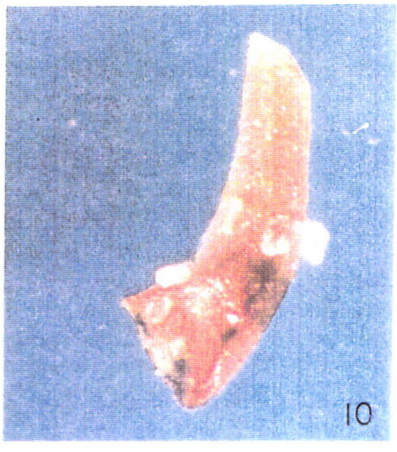
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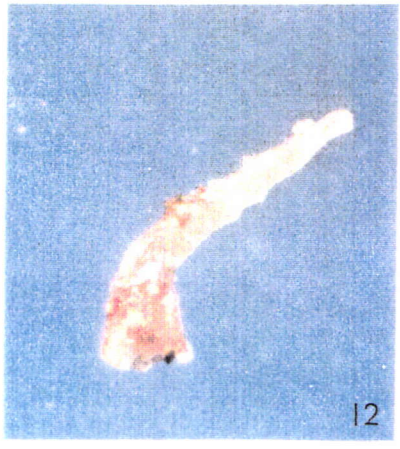
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PLATE 5

Palynomorphs from the Boat Harbour and Forteau formations taken with interference contrast. Slide reference includes the well depth of the sample, the preparation number, and the grid reference for the specimen taken on the Leitz fluorescent microscope.
All figures x 1120.

Figs. 1, 2. Large granular spherical and sack-like structures present, and often common, in the 75-320 m interval.

1. Slide reference Hunt Oil 265m (1):5.8, 76.5. Boat Harbour Formation.
2. Slide reference Hunt Oil 265m (2): 14.6, 98.8. Boat Harbour Formation.

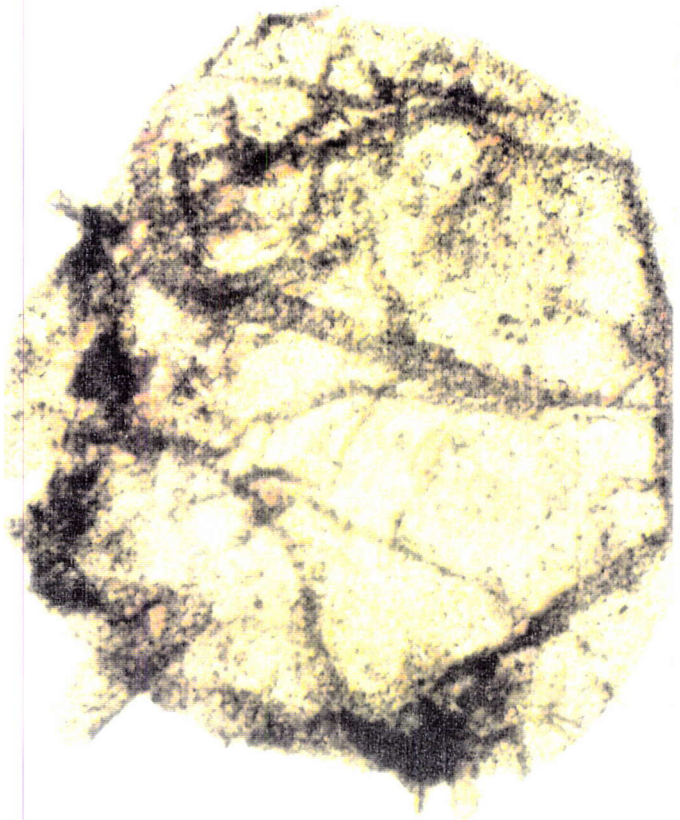
Fig. 3.Small ridged spheres, possibly Herkomorphs, usually occuring in clusters. Rare at 205, 230, and 265m.
Slide reference Hunt Oil 205m (1): 22, 110. Boat Harbour Formation.

Fig. 4. Cluster of reticulate spheres.
Slide reference Hunt Oil 135m (1): 13.5, 87. Boat Harbour Formation.

Fig. 5. Algal cluster. Common at this level.
Slide reference Hunt Oil 900m (2): 5.7, 77.3. March Point Formation.

Figs. 6, 7. Small ?*Cymatiosphaera* specimen. These and other quite small, thin-walled acritarchs are very common, together with the algal clusters of Fig. 5.
Slide reference Hunt Oil 900m (2): 8, 77.7. Fig. 6. is under interference contrast, fig. 7. in brightfield. March Point Formation.

Fig. 8. Algal cluster. Common.
Slide reference Hunt Oil 1315 (4): 3.2, 90.5. Forteau Formation.



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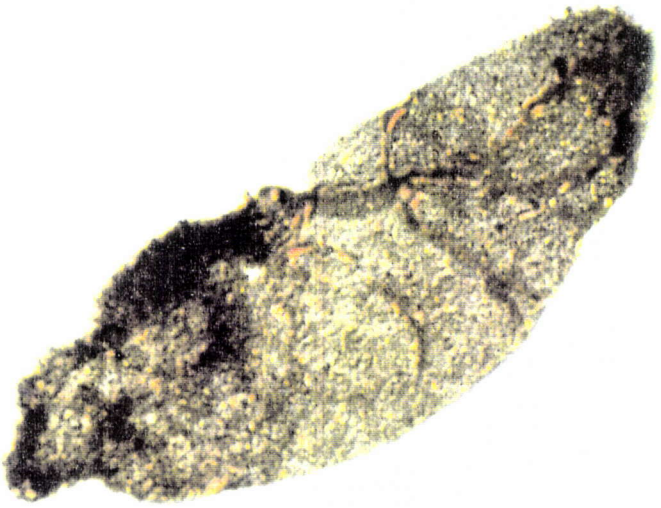

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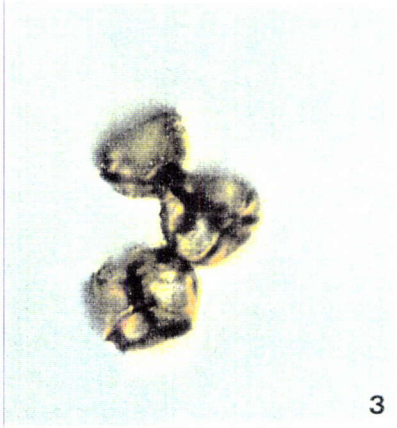

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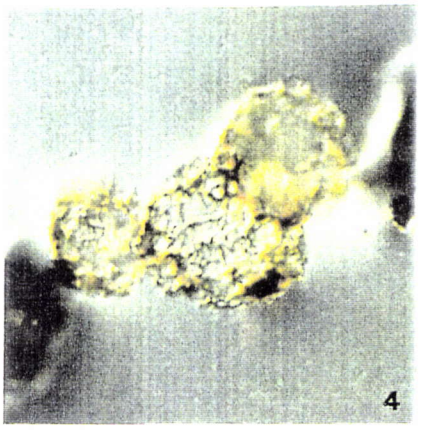

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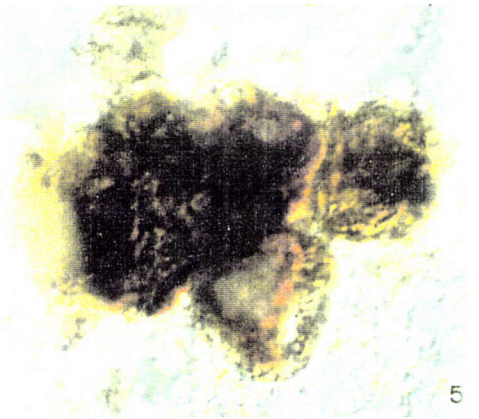

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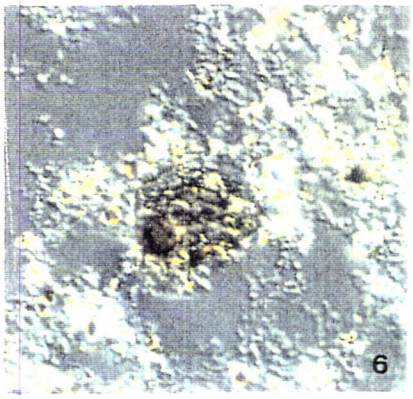

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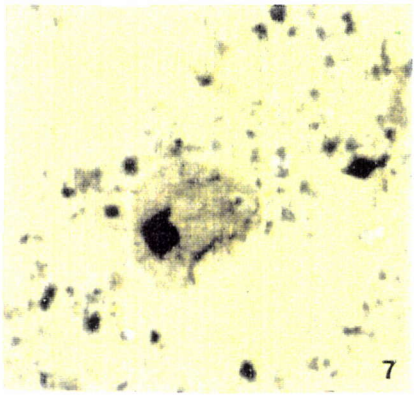

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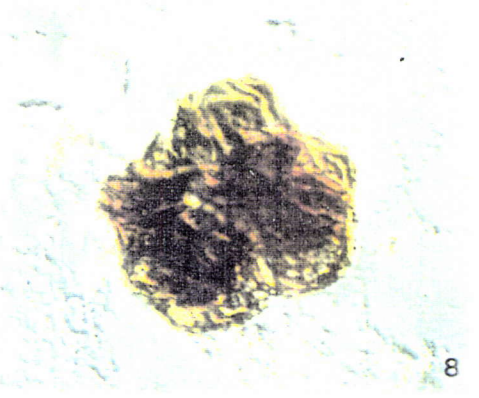

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PLATE 6

Palynomorphs from the Forteau Formation taken with interference contrast.
Slide reference includes the well depth of the sample, the preparation number, and the grid reference for the specimen taken on the Leitz fluorescent microscope.
All figures x 1120.

Fig. 1. *Retisphaeridium dichamerum.*
Slide reference Hunt Oil 1390m (4): 6, 103.7.

Fig. 2. Sphaeromorph
Slide reference Hunt Oil 1630 (1): 18.9, 104.6.

Fig. 3. *Lophosphaeridium* sp.
Slide reference Hunt Oil 1390m (4): 9.8, 111.

Fig. 4. *Granomarginata squamacea*
Slide reference Hunt Oil 1390m (4): 17.7, 89.5.

Fig. 5. *Volkovia* sp.
Slide reference Hunt Oil 1390m (4): 3.8, 92.

Fig. 6. *Micrhystridium* sp.
Slide reference Hunt Oil 1390m (4): 3.8, 92.

Fig. 7. *Skiagia scottica*
Slide reference Hunt Oil 1390m (4): 9.5, 84.4.

Figs. 8, 9. *Skiagia* spp.
8. Slide reference Hunt Oil 1500m (1): 15.7, 106.
9. Slide reference Hunt Oil 1530m (1): 19.3, 91.8.

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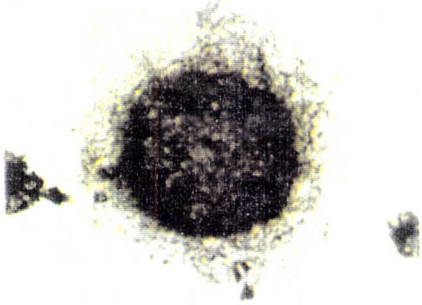

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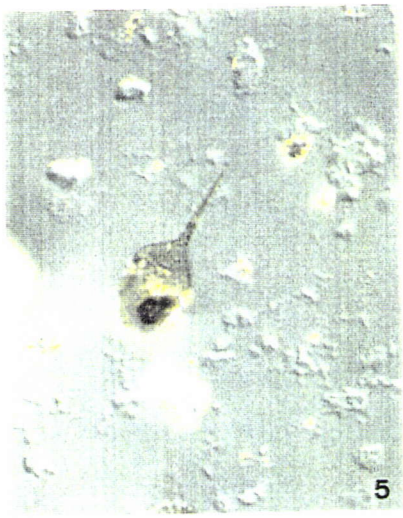

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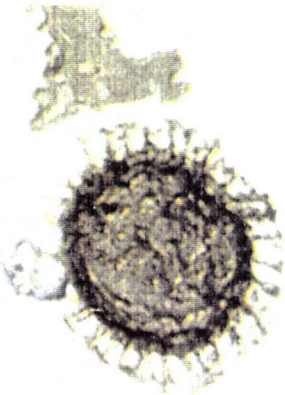

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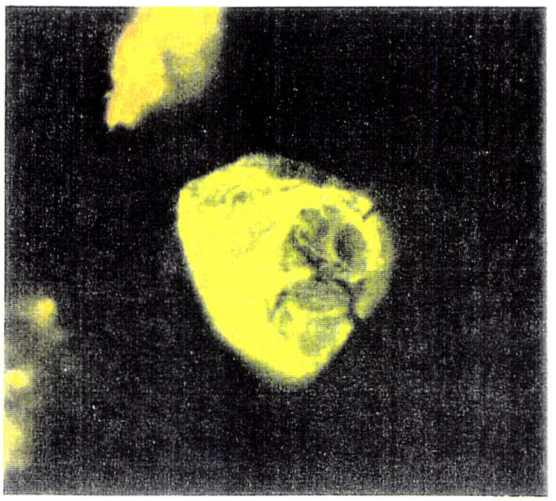
PLATE 7

Sphaeromorph acritarchs from the Winterhouse Formation showing change in fluorescence with increasing well depth.
Slide reference includes the well depth of the sample, the preparation number, and the grid reference for the specimen taken on the Leitz fluorescent microscope.
All figures x 1120.

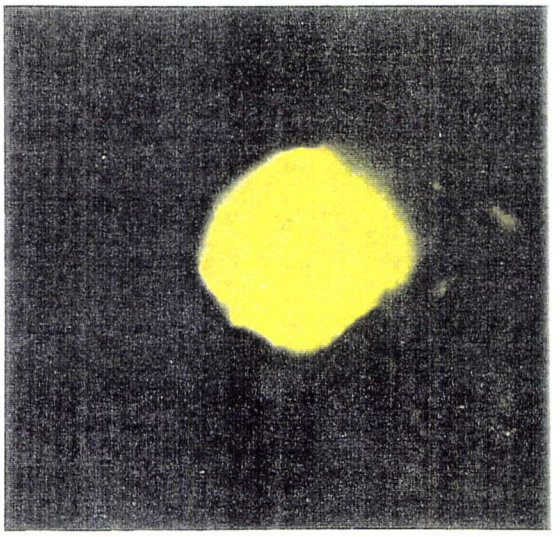
Fig. 1. Yellow-white fluorescence with some blue fluorescence.
Slide reference Hunt Oil 2405m (1): 12.1, 101.5

Fig. 2. Yellow fluorescence.
Slide reference Hunt Oil 2495m (1): 93, 89

Fig. 3. Orange-yellow fluorescence.
Slide reference Hunt Oil 2850m (1): 9.6, 86.5



1



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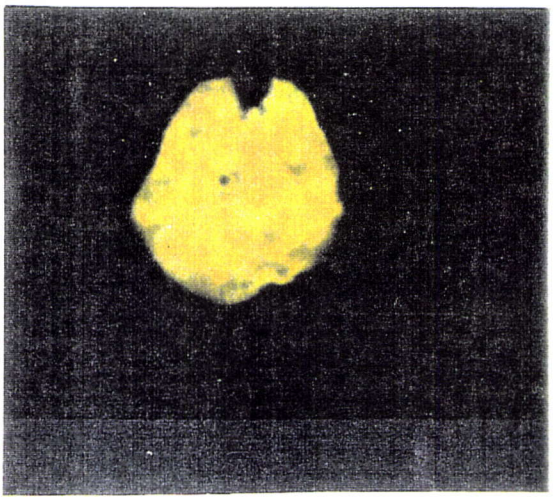


3

SUMMARY OF PROCESSED FOSSIL SAMPLES, AGES AND THERMAL MATURITIES

FOSSIL LOG KEY TO DATA

FOSSIL SAMPLE	
c	Conodont
p	Palynomorph
g	Graptolite

YIELD	
o	Barren
x	Low yield
xx	High yield
x (R)	Probably reworked
x(C)	Probably caved

MATURITY	
I	Immature
M(I)	Marginally mature
M	Mature
M(O)	Almost overmature
O	Overmature

CATOCHE FORMATION (ABOVE ROUND HEAD THRUST) FOSSIL LOG

DEPTH metres	FOSSIL SAMPLE	YIELD	TAI	FLUOR	CAI	MATURITY	AGE	LITHOSTRATIGRAPHY
35	p	o						
40	c	xx			1-1.5	M	Mid Arenig	Catoche Fm
45								
50								
55								
60	c	xx			1-1.5	M	Mid Arenig	Catoche Fm
65								
70								
75	p	x	2.91	4		M(O)		
80	c	xx			1-1.5	M	Mid Arenig	Catoche Fm
85								
90								
95								
100	c	xx			1		Mid Arenig	Catoche Fm
105								
110								
115	p	x	2.89	4		M(O)		
120	c	x			1.5-2	M	Early Arenig	

BOAT HARBOUR FORMATION (ABOVE ROUND HEAD THRUST)
FOSSIL LOG

DEPTH metres	FOSSIL SAMPLE	YIELD	TAI	FLUOR	CAI	MATURITY	AGE	LITHOSTRATIGRAPHY
125								
130								
135	p	x	2.92	4		M(O)		
140	c	xx			1.5	M	Arenig	Ur Boat Hbr-Lr Catoche
145								
150								
155								
160	p	x	2.84	4		M(O)		
165	c	x			1.5	M	Arenig	Ur Boat Hbr-Aquathuna
170								
175	p	x	2.92	4		M(O)		
180	c	xx			1.5	M	Arenig	Ur Boat Harbour Fm
185								
190								
195								
200	c	x			1-1.5	M	Arenig	Mid-Ur Boat Harbour Fm
205	p	x	2.80	4		M		
210								
215								
220	c	xx			1.5-2	M(O)	Arenig	Mid Boat Harbour Fm
225								
230	p	x	2.93	4		M(O)		
235								
240	p	x	2.85	4		M(O)		
245	c	xx			1.5	M	Arenig	Mid Boat Harbour Fm
250								
255								
260								
265	p	x	2.94	4		M(O)		
270	c	x			1	M	Tremadoc	Lr Boat Harbour Fm.
275								
280	c	xx			1	M	Tremadoc	Lr Boat Harbour Fm.
285	p	x	2.90	4		M(O)		
290								
295								
300	c	x			1	M	Tremadoc	Ur Watts Bight Fm.
305								

WATTS BIGHT FORMATION (ABOVE ROUND HEAD THRUST)
FOSSIL LOG

DEPTH	FOSSIL	YIELD	TAI	FLUOR	CAI	MATURITY	AGE	LITHOSTRATIGRAPHY
metres	SAMPLE							
310								
315								
320	p	x	2.90	4		M(O)		
325	c	o						
330								
335								
340	c	x			1	M	Tremadoc	Ur Watts Bight Fm.
345								
350								
355								
360	c, p	o						
365								
370								
375								
380	c	x			1.5	M	Tremadoc	Ur Watts Bight Fm.
385								
390								
395								
400	p	o						

BERRY HEAD FORMATION (ABOVE ROUND HEAD THRUST)
FOSSIL LOG

DEPTH metres	FOSSIL SAMPLE	YIELD	TAI	FLUOR	CAI	MATURITY	AGE	LITHOSTRATIGRAPHY
405	c	x			1-1.5	M		
410	c	x			1.5	M	Tremadoc	Mid Watts Bight Fm
415								
420	c	o						
425	c	x			1.5	M	Ur Camb-Trem	Ur Berry Hd-Lr Watts B
430								
435								
440	c, p	x			1.5	M	Ur Camb-Trem	Ur Berry Hd-Lr Watts B
445								
450								
455								
460	c	o						
465	p	x	3.14	4		O		
470								
475								
480	c	x			1.5	M	Ur Camb-Trem	Ur Berry Hd-Lr Watts B
485	p	o						
490	p	x	3.15	4		O		
495	c	x			1.5	M	Ur Cambrian	Ur Berry Head Fm
500								
505								
510	c	o						
515								
520	c	o						
525	p	o						
530	c	o						
535								
540								
545								
550	c	o						
555	p	o						
560								
565								
570								
575	c	o						

PETIT JARDIN FORMATION - MAN O' WAR MEMBER (ABOVE ROUND HEAD THRUST)
FOSSIL LOG

DEPTH metres	FOSSIL SAMPLE	YIELD	TAI	FLUOR	CAI	MATURITY	AGE	LITHOSTRATIGRAPHY
580								
585	p	x	2.98	4		M(O)		
590								
595	p	o						
600								
605								
610								
615								
620	g	x						
625	c	o						
630								
635								
640	p	x	3.01	4		O		
645								

PETIT JARDIN FORMATION - FELIX MEMBER (ABOVE ROUND HEAD THRUST)
FOSSIL LOG

DEPTH metres	FOSSIL SAMPLE	YIELD	TAI	FLUOR	CAI	MATURITY	AGE	LITHOSTRATIGRAPHY
650								
655								
660								
665								
670								
675								
680	p	o						
685								
690								
695								

PETIT JARDIN FORMATION - BIG COVE MEMBER (ABOVE ROUND HEAD THRUST)
FOSSIL LOG

DEPTH metres	FOSSIL SAMPLE	YIELD	TAI	FLUOR	CAI	MATURITY	AGE	LITHOSTRATIGRAPHY
700								
705								
710								
715								
720								
725	p	x	3.02	4		O	Ur Camb-Trem	
730								
735								
740								
745								

PETIT JARDIN FORMATION - CAMPBELLS MEMBER (ABOVE ROUND HEAD THRUST)
FOSSIL LOG

DEPTH metres	FOSSIL SAMPLE	YIELD	TAI	FLUOR	CAI	MATURITY	AGE	LITHOSTRATIGRAPHY
750								
755								
760	p	x	2.95	4		M(O)		
765								
770								
775								
780	p	x	2.98	4		M(O)		
785								
790								
795								
800								
805								
810								
815								
820								
825	p	o						
830								
835								
840								
845								

PETIT JARDIN FORMATION - CAPE ANN MEMBER (ABOVE ROUND HEAD THRUST)
FOSSIL LOG

DEPTH metres	FOSSIL SAMPLE	YIELD	TAI	FLUOR	CAI	MATURITY	AGE	LITHOSTRATIGRAPHY
850								
855								
860								
865	p	x	3.08	4		O		
870								
875								
880	p	x	3.11	4		O	Ur Camb-Trem	
885								

MARCH POINT FORMATION (ABOVE ROUND HEAD THRUST)
FOSSIL LOG

DEPTH metres	FOSSIL SAMPLE	YIELD	TAI	FLUOR	CAI	MATURITY	AGE	LITHOSTRATIGRAPHY
890								
895								
900	p	x	2.94	4		M(O)		
905								
910								
915								
920								
925								
930								
935								
940	p	x	3.12	4		O		
945								
950								
955								

HAWKE BAY FORMATION (ABOVE ROUND HEAD THRUST - CONTINUED)
FOSSIL LOG

DEPTH metres	FOSSIL SAMPLE	YIELD	TAI	FLUOR	CAI	MATURITY	AGE	LITHOSTRATIGRAPHY
1200								
1205								
1210								
1215								
1220								
1225								
1230								
1235								
1240								

FORTEAU FORMATION (ABOVE ROUND HEAD THRUST)
FOSSIL LOG

DEPTH metres	FOSSIL SAMPLE	YIELD	TAI	FLUOR	CAI	MATURITY	AGE	LITHOSTRATIGRAPHY
1245								
1250								
1255	p	xx	2.82	4		M(O)		
1260								
1265								
1270								
1275								
1280								
1285								
1290								
1295								
1300								
1305								
1310								
1315	p	xx	2.93	4		M(O)		
1320								
1325								
1330								
1335								
1340								
1345								
1350	p	xx	2.80	4		M	Lr-M Cambrian	
1355								
1360								
1365								
1370								
1375								
1380								
1385								
1390	p	xx	2.84	4		M(O)	Lr Cambrian	Forteau Fm.
1395								
1400								
1405								
1410								
1415								

FORTEAU FORMATION (ABOVE ROUND HEAD THRUST - CONTINUED)
FOSSIL LOG

DEPTH metres	FOSSIL SAMPLE	YIELD	TAI	FLUOR	CAI	MATURITY	AGE	LITHOSTRATIGRAPHY
1420								
1425								
1430								
1435								
1440								
1445								
1450	p	xx	2.83	4		M(O)	Lr Cambrian	Forteau Fm.
1455								
1460								
1465								
1470								
1475								
1480								
1485								
1490								
1495								
1500	p	x	2.95	4		M(O)	Lr Cambrian	Forteau Fm.
1505								
1510								
1515								
1520								
1525								
1530	p	x	2.85	4		M(O)	Lr Cambrian	Forteau Fm.
1535								

DEVIL'S COVE MEMBER (BASAL FORTEAU, ABOVE ROUND HEAD THRUST)
FOSSIL LOG

DEPTH metres	FOSSIL SAMPLE	YIELD	TAI	FLUOR	CAI	MATURITY	AGE	LITHOSTRATIGRAPHY
1540								
1545								
1550								

BRADORE FORMATION
FOSSIL LOG

DEPTH metres	FOSSIL SAMPLE	YIELD	TAI	FLUOR	CAI	MATURITY	AGE	LITHOSTRATIGRAPHY
1555								
1560								
1565								
1570								
1575								
1580	p	xx(C)	2.78	4		M	Lr Cambrian	
1585								
1590								
1595								
1600								
1605								
1610								
1615								
1620								
1625								
1630	p	xx(C)	2.96	4		M(O)	Lr Cambrian	
1635								
1640								
1645								
1650								
1655								
1660	p	x(C)	2.88	4		M(O)	Lr Cambrian	
1665								
1670								
1675								
1680								
1685								
1690								
1695								
1700	p	x(C)	2.98	4		M(O)		
1705								

P. C. GNEISS BASEMENT
FOSSIL LOG

DEPTH metres	FOSSIL SAMPLE	YIELD	TAI	FLUOR	CAI	MATURITY	AGE	LITHOSTRATIGRAPHY
1710								
1715								
1720	p	x(C)	2.91	4		M(O)	Lr Cambrian	

1725 to 2320 — No fossil samples processed

WINTERHOUSE FORMATION (FOOTWALL ROCKS OF THE ROUND HEAD THRUST)
FOSSIL LOG

DEPTH metres	FOSSIL SAMPLE	YIELD	TAI	FLUOR	CAI	MATURITY	AGE	LITHOSTRATIGRAPHY
2325	p	x(C)	2.99	4		M(O)		
2330								
2335								
2340								
2345								
2350	p	x	2.17	2.49		M	Ur Ord-Lr Sil	
2355	p	x	2.91	3.08		M(O)	Carad-Ashg?	
2360								
2365								
2370	p	x	1.71	1.98		I		
2375	g	x						
2380								
2385	c							
2390	p	x	1.55	1.9		I	Carad-Ashg?	
2395	c	o						
2400								
2405	p	x	1.65	1.9		I	Carad-Ashg?	
2410								
2415	c	o						
2420	p, g	x	1.71	1.94		I	Carad-Ashg?	Winterhouse Fm
2425								
2430	c, g	x			2.5		Carad-Ashg?	Winterhouse Fm
2435	p	xx	1.64	1.75		I		
2440	c	x			2			
2445	p, g	x	1.61	1.82		I	Caradoc-Ashg	Winterhouse Fm
2450								
2455	c	o						
2460	p	xx	1.76	1.99		M(I)	Caradoc-Ashg	Winterhouse Fm
2465	g	x					Caradoc	Lr Winterhouse Fm.
2470	g	x					Caradoc	Lr Winterhouse Fm.
2475								
2480								
2485								
2490								
2495	p	x	2.04	2.07		M	Caradoc-Ashg	Winterhouse Fm
2500								
2505								
2510								
2515								
2520								
2525								
2530								
2535	g	x					Ur Caradoc?	Mid Winterhouse Fm.
2540	p	x	1.78	2.12		M(I)	Caradoc-Ashg	Winterhouse Fm
2545								
2550								
2555								
2560	g	x					Caradoc-Ashg	Winterhouse Fm
2565								

WINTERHOUSE FORMATION (CONTINUED)
FOSSIL LOG

DEPTH metres	FOSSIL SAMPLE	YIELD	TAI	FLUOR	CAI	MATURITY	AGE	LITHOSTRATIGRAPHY
2570								
2575								
2580	p	x	1.85	1.96		M(l)	Caradoc-Ashg	Winterhouse Fm
2585								
2590								
2595								
2600								
2605	g	x					Ashgill	Winterhouse Fm
2610								
2615								
2620	p	x	1.83	1.93		M(l)	Caradoc-Ashg	Winterhouse Fm
2625								
2630								
2635								
2640								
2645								
2650								
2655	g	x					Caradoc-Ashg	Winterhouse Fm
2660	p	x	2.01	2.13		M	Caradoc-Ashg	Winterhouse Fm
2665	g	x					Caradoc-Ashg	Winterhouse Fm
2670								
2675								
2680								
2685								
2690								
2695	g	x					Caradoc-Ashg	Winterhouse Fm
2700	p, g	x	2.02	2.26		M	Caradoc-Ashg	Winterhouse Fm
2705								
2710								
2715								
2720								
2725	c	o						
2730								
2735								
2740								
2745								
2750	p	x	2.05	2.18		M		
2755								
2760								
2765								
2770								
2775								
2780								
2785								
2790								
2795	p	x	1.91	2.03		M(l)		
2800								
2805								
2810								

WINTERHOUSE FORMATION (CONTINUED)
FOSSIL LOG

DEPTH metres	FOSSIL SAMPLE	YIELD	TAI	FLUOR	CAI	MATURITY	AGE	LITHOSTRATIGRAPHY
2815								
2820								
2825								
2830								
2835								
2840								
2845	g	xx					Ur Caradoc	Mid Winterhouse Fm
2850	p	x	1.74	1.8		I		
2855								
2860								
2865								
2870								
2875								
2880								
2885								
2890								
2895	p	x	1.98	1.81		M(I)		
2900								
2905	c	x(R)			1.5	M		
2910								
2915								
2920								
2925								
2930								
2935								
2940								
2945	p	x	2.06	2.48		M	Caradoc-Ashg	Winterhouse Fm
2950								
2955								
2960								
2965								
2970								
2975								
2980								
2985								
2990	p	x	2.13	2.29		M		
2995								
3000								
3005								
3010								
3015								
3020								
3025	c	x(R)			1.5	M		
3030								
3035	p	x	2.43	2.39		M		
3040								
3045	g	x					Caradoc	Lr Winterhouse Fm.
3050								
3055	c	xx(R)			1.5-2	M	Caradoc	Lourdes Fm?

WINTERHOUSE FORMATION (CONTINUED)
FOSSIL LOG

DEPTH metres	FOSSIL SAMPLE	YIELD	TAI	FLUOR	CAI	MATURITY	AGE	LITHOSTRATIGRAPHY
3060								
3065								
3070								
3075	p	x	2.18	2.5		M	Caradoc-Ashg	Winterhouse Fm
3080								

LOURDES FORMATION
FOSSIL LOG

DEPTH metres	FOSSIL SAMPLE	YIELD	TAI	FLUOR	CAI	MATURITY	AGE	LITHOSTRATIGRAPHY
3085	c	xx(R)			1.5-2	M	Caradoc	Lourdes Fm
3090								
3095								
3100	c	x			1.5-2	M		Lourdes Fm
3105								
3110								
3115	p	x	2.30	2.28		M		
3120	c	x			1	M		
3125								
3130								
3135								
3140	c	o						
3145								
3150								
3155	p	x	1.97	2.09		M(l)		
3160	c	o						
3165								
3170								
3175								
3180	c	x			1.5	M		
3185	p	x	2.20	2.15		M		
3190								
3195								
3200	g							
3205	g	x					Lr Caradoc	sub-Lourdes B
3210	p	x	2.04	2.41		M		
3215								
3220	c	o						
3225	c	x			1.5	M	Caradoc-Ashg	
3230	c	x			1.5	M		
3235	c	x			2	M	Caradoc	Lourdes Fm
3240	c	x			1.5	M		
3245	c	o						
3250	c	o						

GOOSE TICKLE GROUP
FOSSIL LOG

DEPTH metres	FOSSIL SAMPLE	YIELD	TAI	FLUOR	CAI	MATURITY	AGE	LITHOSTRATIGRAPHY
3255	c	o						
3260	p	x	2.37	2.78		M		
3265								
3270								
3275								
3280								
3285								
3290								
3295	p	x	2.58	2.93		M	M-Ur Ordov	
3300								
3305								
3310								
3315								
3320								
3325	p	xx	2.45	2.88		M		
3330								
3335								
3340								
3345								
3350								
3355								
3360								
3365								
3370								
3375								
3380								
3385	p	x	2.70	2.96		M		
3390								
3395								
3400								

TABLE COVE FORMATION?
FOSSIL LOG

DEPTH metres	FOSSIL SAMPLE	YIELD	TAI	FLUOR	CAI	MATURITY	AGE	LITHOSTRATIGRAPHY
3405								
3410								
3415	c	o						
3420								
3425								
3430								
3435								
3440	p	x	2.85	3.06		M(O)		

TABLE POINT FORMATION
FOSSIL LOG

DEPTH metres	FOSSIL SAMPLE	YIELD	TAI	FLUOR	CAI	MATURITY	AGE	LITHOSTRATIGRAPHY
3445								
3450	c	o						
3455	c	x			1.5			

SPRINGS INLET MEMBER (TABLE POINT FORMATION)
FOSSIL LOG

DEPTH metres	FOSSIL SAMPLE	YIELD	TAI	FLUOR	CAI	MATURITY	AGE	LITHOSTRATIGRAPHY
3460	c	o						
3465								
3470	c	o						

AGUATHUNA FORMATION
FOSSIL LOG

DEPTH metres	FOSSIL SAMPLE	YIELD	TAI	FLUOR	CAI	MATURITY	AGE	LITHOSTRATIGRAPHY
3475								
3480								
3485	p	x(C)	2.94	3.2		M(O)		
3490	c	o						
3495								
3500	c	x			1.5		Arenig	Mid Boat Hbr-Aguathuna
3505								
3510								
3515								
3520								
3525								
3530								
3535	p	x(C)	2.86	4		M(O)		
3540 3545	c							
3550								
3555	p	x(C)	2.93	4		M(O)		

CATOCHE FORMATION- COSTA BAY MEMBER (BELOW ROUND HEAD THRUST)
FOSSIL LOG

DEPTH metres	FOSSIL SAMPLE	YIELD	TAI	FLUOR	CAI	MATURITY	AGE	LITHOSTRATIGRAPHY
3560	c	x			1.5		Arenig	Ur Catoche-Lr Aguath
3565								
3570	c	o						
3575	c	o						
3580								
3585								
3590	c	o						

CATOCHE FORMATION (BELOW ROUND HEAD THRUST)
FOSSIL LOG

DEPTH metres	FOSSIL SAMPLE	YIELD	TAI	FLUOR	CAI	MATURITY	AGE	LITHOSTRATIGRAPHY
3595								
3600	p	x(C)	2.82	3.2		M(O)		
3605	c	o						
3610	c	o						
3615								
3620								
3625	c	o						
3630								
3635	c	o						
3640								
3645	c	o						
3650	c	x			2	M(O)	Arenig	Catoche Fm
3655	c	x			1.5-2	M	Arenig	Ur Boat Hbr-Catoche
3660	p	x(C)	2.93	4		M(O)		
3665	c	x			1	M	Arenig	Ur Boat Harbour Fm
3670								
3675	c	x			1	M	Arenig	Mid Boat Hbr-Aguathuna
3680	c	o						
3685								
3690	c	o						
3695								
3700								
3705	p	x	2.93	4		M(O)		
3710								
3715	c	o						
3720								

UPPER BOAT HARBOUR FORMATION (BELOW ROUND HEAD THRUST)
FOSSIL LOG

DEPTH metres	FOSSIL SAMPLE	YIELD	TAI	FLUOR	CAI	MATURITY	AGE	LITHOSTRATIGRAPHY
3725	c(x2)	o						
3730	c	o						
3735								
3740								
3745	c	x			1	M	Arenig	Ur Boat Harbour Fm
3750	c	o						
3755	c	o						

MIDDLE AND LOWER BOAT HARBOUR FORMATION (BELOW ROUND HEAD THRUST)
FOSSIL LOG

DEPTH metres	FOSSIL SAMPLE	YIELD	TAI	FLUOR	CAI	MATURITY	AGE	LITHOSTRATIGRAPHY
3760	p	x	2.96	4		M(O)		
3765	c	x			2	M	Arenig-Llanv	Ur Boat Hbr - Table Head
3770								
3775	c(x2)	x			1	M		
3780	c	x			1		Trem-Arenig	Mid Boat Hbr-Aguathuna
3785	c	x			1	M	Tremadoc	Mid Boat Harbour Fm
3790	c	x			1	M	Trem-Arenig	Mid Boat Hbr-Aguathuna
3795								
3800	c (x2)	x			1	M	Tremadoc	Mid Boat Harbour Fm
3805	c	x			1	M	Tremadoc	Mid Boat Harbour Fm
3810								
3815	c	x			1	M		
3820	c	x			1.5	M	Tremadoc	Mid Boat Harbour Fm
3825	c (x2)	x			1-1.5	M	Tremadoc	Mid Boat Harbour Fm
3830								
3835								
3840								
3845								
3850	c							
3855								
3860	c	x			1-1.5	M	Tremadoc	Mid Boat Harbour Fm
3865								
3870								
3875	c	x			1			
3880	c	x			1	M	Tremadoc	Mid Boat Harbour Fm
3885								
3890	c	x			1	M	Tremadoc	Mid Boat Harbour Fm

WATTS BIGHT FORMATION (BELOW ROUND HEAD THRUST)
FOSSIL LOG

DEPTH metres	FOSSIL SAMPLE	YIELD	TAI	FLUOR	CAI	MATURITY	AGE	LITHOSTRATIGRAPHY
3895								
3900	c	o						
3905								
3910								
3915								
3920	nb. No samples received 3910 - 3985 m							
3925								
3930								
3935								
3940								
3945								
3950								
3955								

BERRY HEAD FORMATION (BELOW ROUND HEAD THRUST)
FOSSIL LOG

DEPTH metres	FOSSIL SAMPLE	YIELD	TAI	FLUOR	CAI	MATURITY	AGE	LITHOSTRATIGRAPHY
3960								
3965								
3970								
3975								
3980								
3985								
3990								
3995	c	x(C)			1.5	M		Watts Bight Fm
4000	c	o						
4005								
4010								
4015	c	x(C)			1.5		Tremadoc	Ur Watts Bight Fm
4020	c	o						
4025								
4030								
4035	c	o						
4040								
4045								
4050	c	x(C)			1.5	M		
4055								
4060								
4065	p	x	2.95	3.2		M(O)		
4070	c	x			1.5	M	Ur Camb-Trem	Ur Berry Hd-Lr Watts Bt
4075	c	o						
4080								
4085								
4090								
4095	c	x(C)			1.5	M	Ur Camb-Trem	Ur Berry Hd-Lr Watts Bt
4100								
4105	p	x	2.98	4		M(O)		
4110	c	x(C)			1.5	M	Ur Camb-Trem	Ur Berry Hd-Lr Watts Bt
4115								

PETIT JARDIN FORMATION - MAN O' WAR MEMBER (BELOW ROUND HEAD THRUST)
FOSSIL LOG

DEPTH metres	FOSSIL SAMPLE	YIELD	TAI	FLUOR	CAI	MATURITY	AGE	LITHOSTRATIGRAPHY
4120								
4125	c	o						
4130								
4135	c	o						
4140	p	x	3.00	4		O		
4145								
4150								
4155								
4160								
4165								
4170	p	x	2.97	4		M(O)		
4175								

PETIT JARDIN FORMATION - FELIX MEMBER (BELOW ROUND HEAD THRUST)
FOSSIL LOG

DEPTH metres	FOSSIL SAMPLE	YIELD	TAI	FLUOR	CAI	MATURITY	AGE	LITHOSTRATIGRAPHY
4180								
4185								
4190								
4195								
4200								
4205	p	x	2.93	4		M(O)		
4210								
4215								
4220								

PETIT JARDIN FORMATION - BIG COVE MEMBER (BELOW ROUND HEAD THRUST)
FOSSIL LOG

DEPTH metres	FOSSIL SAMPLE	YIELD	TAI	FLUOR	CAI	MATURITY	AGE	LITHOSTRATIGRAPHY
4225								
4230								
4235								
4240	p	x	2.96	4		M(O)		
4245								
4250								
4252								

HUNT-PAN CANADIAN PORT AU PORT WELL #1, CONODONT SAMPLES

Catoche Formation

40 m

Material:	12 elements
Identifiable taxa:	*Glyptoconus quadriplicatus*
	G. multicostatus
	Stultodontus costatus
	Striatodontus sp.
Biozone:	*P. carlae-S. ovatus* (shallow water) Zone
Chronostratigraphy:	Lower Ordovician
Lithostratigraphy:	Catoche Fm.
CAI:	1-1.5
Notes:	

60 m

Material:	9 elements
Identifiable taxa:	*Glyptoconus multicostatus*
	Protoprioniodus cowheadensis
	Acodus comptus
Biozone:	*O. communis -P. simplissimus* (deep water) Zone
Chronostratigraphy:	Lower Ordovician
Lithostratigraphy:	Catoche Fm.
CAI:	1-1.5
Notes:	

80m

Material:	33 elements + fragments
Identifiable taxa:	*Glyptoconus quadriplicatus*
	G. emarginatus
	Protoprioniodus simplissimus
	Acodus comptus
	Drepanoistodus angulensis
	Glyptoconus sp.
Biozone:	*O. communis -P. simplissimus* (deep water) Zone
Chronostratigraphy:	Lower Ordovician
Lithostratigraphy:	Catoche Fm.
CAI:	1-1.5
Notes:	

100 m

Material:	17 elements + fragments
Identifiable taxa:	*Acodus comptus*
	Drepanoistodus angulensis
	Glyptoconus quadriplicatus
	Scolopodus parabruptus
Biozone:	*O. communis -P. simplissimus* (deep water) Zone
Chronostratigraphy:	Lower Ordovician
Lithostratigraphy:	Catoche Fm.
CAI:	1.0
Notes:	

120 m

Material:	1 element
Identifiable taxa:	*Drepanoistodus angulensis*
Biozone:	
Chronostratigraphy:	Lower Ordovician
Lithostratigraphy:	
CAI:	1.5-2.0
Notes:	

Boat Harbour Formation

140 m

Material:	10 elements + fragments
Identifiable taxa:	*Acodus sp.*
	Drepanoistodus angulensis
	Glyptoconus emarginatus
Biozone:	*A. delicatus and O. communis -P. simplissimus* (deep water) Zones
Chronostratigraphy:	Lower Ordovician
Lithostratigraphy:	Upper Boat Harbour Fm. to Lower Catoche Fm.
CAI:	1.5
Notes	

165 m

Material:	6 elements
Identifiable taxa:	*Drepanoistodus angulensis*
	Glyptoconus emarginatus
Biozone:	
Chronostratigraphy:	Lower Ordovician
Lithostratigraphy:	Upper Boat Harbour Fm. to Aguathuna Fm.
CAI:	1.5
Notes:	Assemblage ranges over three biozones

180 m

Material: 19 elements
Identifiable taxa: *Drepanoistodus angulensis*
Glyptoconus triplicatus
Striatodontus prolificus
Biozone: *S. prolificus-S. lanceolatus* (shallow water) Zone
Chronostratigraphy: Lower Ordovician
Lithostratigraphy: Upper Boat Harbour Fm.
CAI: 1.5
Notes:

200 m

Material: 2 elements
Identifiable taxa: *Striatodontus prolificus*
Biozone: ?*S.prolificus-S.lanceolatus* (shallow water) Zone
Chronostratigraphy: Lower Ordovician
Lithostratigraphy: Middle to Upper Boat Harbour Fm.
CAI: 1-1.5
Notes:

220 m

Material: 43 elements
Identifiable taxa: *Drepanoistodus concavus*
Macerodus dianae
Striatodontus prolificus
Biozone: *D. nowlani-M. dianae* (deep water) Zone
Chronostratigraphy: Lower Ordovician
Lithostratigraphy: Middle Boat Harbour Fm.
CAI: 1.5-2.0
Notes:

245 m

Material: 10 elements
Identifiable taxa: *Drepanoistodus nowlani*
Striatodontus prolificus
Biozone: *S. prolificus* and/or *D. nowlani* zones
Chronostratigraphy: Lower Ordovician
Lithostratigraphy: Middle Boat Harbour Fm.
CAI: 1.5
Notes : The biozones represent shallow and deep water zones with one taxon from each.

270 m

Material:	2 elements + fragments
Identifiable taxa:	*Polycostatus sulcatus*
	Rossodus manitouensis
Biozone:	*R. manitouensis- P. sulcatus* (shallow water) Zone
Chronostratigraphy:	Lower Ordovician
Lithostratigraphy:	Lower Boat Harbour Fm.
CAI:	1.0
Notes:	

280 m

Material:	17 elements
Identifiable taxa:	*Cordylodus sp.*
	Loxodus bransoni
	Rossodus manitouensis
Biozone:	*R. manitouensis - P. sulcatus* (shallow water) Zone
Chronostratigraphy:	Lower Ordovician
Lithostratigraphy:	Lower Boat Harbour Fm.
CAI:	1.0
Notes:	

300m

Material:	4 elements
Identifiable taxa:	*Drepanoistodus pervetus*
	Rossodus tenuis
Biozone:	*P. falsioneotensis-R. tenuis* (shallow water) Zone
Chronostratigraphy:	Lower Ordovician
Lithostratigraphy:	Upper Watts Bight Fm.
CAI:	1.0
Notes:	

Watts Bight Formation

325 m

Barren

340 m

Material:	1 element
Identifiable taxa:	*Teridontus obesus*
Biozone:	*P. falsioneotensis-R. tenuis* (shallow water) Zone
Chronostratigraphy:	Lower Ordovician
Lithostratigraphy:	Upper Watts Bight Fm.
CAI:	1.0
Notes:	

360 m

Barren

380 m

Material: 1 element + 1 fragment
Identifiable taxa: *Teridontus obesus*
Biozone: *P. falsioneotensis-R. tenuis* (shallow water) Zone
Chronostratigraphy: Lower Ordovician
Lithostratigraphy: Upper Watts Bight Fm.
CAI: 1.5
Notes:

Berry Head Formation

405 m

Material: 2 indeterminate fragments
Identifiable taxa: none
Biozone:
Chronostratigraphy: Lower Ordovician
Lithostratigraphy:
CAI: 1-1.5
Notes:

410 m

Material: 1 element
Identifiable taxa: *Teridontus gracillimus*
Biozone: *P. falsioneotensis-R. tenuis* (shallow water) Zone
Chronostratigraphy: Lower Ordovician
Lithostratigraphy: Middle Watts Bight Fm.
CAI: 1.5
Notes:

420 m

Barren

425m

Material: 1 element
Identifiable taxa: *Teridontus nakamurai*
Biozone: *T. nakamurai - S. nogamii* (shallow water) Zone
Chronostratigraphy: Upper Cambrian - Lower Ordovician
Lithostratigraphy: Upper Berry Head Fm. - Lower Watts Bight Fm.
CAI: 1.5
Notes:

440 m

Material: 1 element
Identifiable taxa: *Teridontus nakamurai*
Biozone: *T. nakamurai - S. nogamii* (shallow water) Zone
Chronostratigraphy: Upper Cambrian - Lower Ordovician
Lithostratigraphy: Upper Berry Head Fm. - Lower Watts Bight Fm.
CAI: 1.5
Notes:

460 m

Barren

480 m

Material:	1 element
Identifiable taxa:	*Teridontus nakamurai*
Biozone:	*T. nakamurai - S. nogamii* (shallow water) Zone
Chronostratigraphy:	Upper Cambrian - Lower Ordovician
Lithostratigraphy:	Upper Berry Head Fm. - Lower Watts Bight Fm.
CAI:	1.5
Notes:	

495 m

Material:	1 element
Identifiable taxa:	*Eoconodontus notchpeakensis*
Biozone:	*C. proavus* Zone
Chronostratigraphy:	Upper Cambrian
Lithostratigraphy:	Berry Head Fm.
CAI:	1.5
Notes:	

510 m

Barren

520 m

Barren

530 m

Barren

550 m

Barren

Petit Jardin Formation

605 m

AI derived from inarticulate brachiopods equivalent to CAI 1.5

625 m

Barren

Winterhouse Formation

2415 m

Barren

2430 m

Material: 1 indeterminate fragment
CAI: 2.5
Notes:

2440 m

Material: 1 indeterminate fragment
CAI: 2.0
Notes:

2455 m

Barren

2725 m

Barren

2905 m

Material: 3 elements
Identifiable taxa: *Drepanoistodus suberectus*
Walliserodus sp. cf. *W. curvatus*
Biozone:
Chronostratigraphy: Upper Ordovician
Lithostratigraphy: Winterhouse Fm.
CAI: 1.5
Notes:

3025 m

Material: 1 element
Identifiable taxa: *Drepanoistodus* sp.
Biozone:
Chronostratigraphy: ?Upper Ordovician
Lithostratigraphy:
CAI: 1.5
Notes:

3055 m

Material: 14 elements + fragments
Identifiable taxa: *Drepanoistodus* sp.
Oulodus robustus (Caradoc-Ashgill)
Panderodus serratus (Caradoc-Ashgill)
Paroistodus mutatus (Caradoc-Ashgill)
Prioniodus sp. ?*P. variablis* (Caradoc)
Ptiloncodus simplex (Llanvirn-Llandeilo)
Biozone: *A. tvaerensis* Zone
Chronostratigraphy: Upper Ordovician
Lithostratigraphy: Winterhouse Fm.
CAI: 1.5-2.0
Notes: This fauna includes some taxa which may have been reworked.

Lourdes Formation

3085 m

Material: 12 elements + fragments
Identifiable taxa: *Aphelognathus pyramidalis* (Caradoc-Ashgill)
Belodina sp.
Panderodus sp. (Caradoc-Ashgill)
Paroistodus mutatus (Caradoc-Ashgill)
Prioniodus sp. ?*P. variablis* (Caradoc)
Ptiloncodus simplex (Llanvirn-Llandeilo)
Biozone: *A. tvaerensis* Zone
Chronostratigraphy: Upper Ordovician
Lithostratigraphy: Lourdes Fm.
CAI: 1.5-2.0
Notes: This fauna includes some taxa which may have been reworked.

3100 m

Material: 6 elements + fragments
Identifiable taxa: *Panderodus serratus* (Caradoc-Ashgill)
Plectodina sp.
Ptiloncodus simplex (Llanvirn-Llandeilo)
Biozone: *A. tvaerensis* Zone
Chronostratigraphy: Upper Ordovician
Lithostratigraphy: Lourdes Fm.
CAI: 1.5-2.0
Notes: This fauna includes some taxa which may have been reworked.

3120 m

Material: 1 element
Identifiable taxa: *Panderodus* sp. (Llanvirn-Silurian)
Biozone:
Chronostratigraphy: Middle-Upper Ordovician
Lithostratigraphy:
CAI: 1. 0
Notes:

3140 m

Barren

3160 m

Barren

3180 m

Material: 1element
Identifiable taxa: *?Oulodus* sp.
Biozone:
Chronostratigraphy: ?Upper Ordovician
Lithostratigraphy:
CAI: 1.5
Notes:

3220 m

Barren

3225 m

Material: 1 element
Identifiable taxa: *Panderodus gracilis* (Caradoc-Ashgill)
Biozone:
Chronostratigraphy: ?Upper Ordovician
Lithostratigraphy: Lourdes Fm.
CAI: 1.5
Notes:

3230 m

Material: 1 fragment
CAI: 1.5
Notes:

3235 m

Material: 6 elements + fragments
Identifiable taxa: *Oulodus ulrichi* (Caradoc-Ashgill)
Biozone: *A. tvaerensis* Zone
Chronostratigraphy: Upper Ordovician
Lithostratigraphy: Lourdes Fm.
CAI: 2.0
Notes:

3240 m

Material:	1 element
Identifiable taxa:	*Panderodus* sp. (Llanvirn-Silurian)
Biozone:	
Chronostratigraphy:	Middle-Upper Ordovician
Lithostratigraphy:	
CAI:	1.5

3245 m
Barren

3250 m
Barren

Goose Tickle Group
3255 m
Barren

Table Cove Formation?
3415 m
Barren

Table Point Formation
3450 m
Barren

3455 m

Material:	1 element
Identifiable taxa:	*Ptilonchodus* sp.
CAI:	1.5
Notes:	

3460 m
Barren

3470 m
Barren

Aguathuna Formation
3490 m
Barren

3500 m

Material: 1 elements
Identifiable taxa: *Drepanoistodus concavus*
Biozone:
Chronostratigraphy: Arenig
Lithostratigraphy: Middle Boat Harbour Fm. - Aguathuna Fm.
CAI: 1.5
Notes:

3540-45 m

Barren

Catoche Formation

3560 m

Material: 2 elements + fragments
Identifiable taxa: *Parapanderodus* sp. cf. *P. gracilis* sensu Stait and Barnes
Diaphorodus n. sp. B. sensu Stait and Barnes
Biozone: Stait and Barnes assemblage zone 4
Chronostratigraphy: Arenig
Lithostratigraphy: Upper Catoche Fm. - Lower Aguathuna Fm.
CAI: 1.5
Notes:

3570 m

Barren

3575-80 m

Barren

3590 m

Barren

3605 m

Barren

3610-15 m

Barren

3625 m

Barren

3630 m

Barren

3635-40 m

Barren

3645 m
Barren

3650 m

Material:	1 element
Identifiable taxa:	*P. striatus* Zone: *P.carlae-S.ovatus* (shallow water) Zone
Chronostratigraphy:	Lower Ordovician
Lithostratigraphy:	Catoche Fm.
CAI:	2.0
Notes:	

3655 m

Material:	1 element
Identifiable taxa:	*G. quadriplicatus* Zone:*P.carlae-S.ovatus* and *P.inconstans-S.subrex* (shallow water) zones
Chronostratigraphy:	Lower Ordovician
Lithostratigraphy:	Upper Boat Harbour Fm. - Catoche Fm.
CAI:	1.5-2.0
Notes:	

3665 m

Material:	1 element
Identifiable taxa:	*Scolopodus subrex*
Biozone:	*P. inconstans-S. subrex* (shallow water) Zone
Chronostratigraphy:	Lower Ordovician
Lithostratigraphy:	Upper Boat Harbour Fm.
CAI:	2.5
Notes:	

3675 m

Material:	1element
Identifiable taxa:	*Drepanoistodus angulensis*
Biozone:	
Chronostratigraphy:	Lower Ordovician
Lithostratigraphy:	Middle Boat Harbour Fm. - Aguathuna Fm.
CAI:	1.0
Notes:	

3680-85 m
Barren

3690 m
Barren

3715-20 m
Barren

Boat Harbour Formation

3725 m

Barren (repeat Barren)

3730 m

Barren

3745-50m

Material: 1 element
Identifiable taxa: *Scolopodus subrex*
Biozone: *P. inconstans-S. subrex* (shallow water) zones
Chronostratigraphy: Lower Ordovician
Lithostratigraphy: Upper Boat Harbour Fm.
CAI: 1.0
Notes:

3750 m

Barren

3755 m

Barren

3765-70 m

Material: 1 element
Identifiable taxa: *Stultodontus costatus*
Biozone: *P. inconstans-S. subrex* (shallow water) zones
Chronostratigraphy: Lower Ordovician
Lithostratigraphy: Upper Boat Harbour Fm.-Lower Table Head Gp.
CAI: 2.0
Notes:

3775 m

Material: 2 indeterminate fragments
CAI: 1.0
Notes:

3780 m

Material: 1 element
Identifiable taxa: *Drepanoistodus angulensis*
Biozone:
Chronostratigraphy: Lower Ordovician
Lithostratigraphy: Middle Boat Harbour Fm. - Aguathuna Fm.
CAI: 1.0
Notes:

3785 m

Material:	1 element
Identifiable taxa:	*Macerodus dianae*
Biozone:	*D. nowlani-M. dianae* (deep water) Zone
Chronostratigraphy:	Lower Ordovician
Lithostratigraphy:	Middle Boat Harbour Fm.
CAI:	1.0
Notes:	This sample is below the pebble bed but above first unconformity

3790-95 m

Material:	1 element + fragments
Identifiable taxa:	*Drepanoistodus angulensis*
Biozone:	
Chronostratigraphy:	Lower Ordovician
Lithostratigraphy:	Middle Boat Harbour Fm. - Aguathuna Fm.
CAI:	1.0
Notes:	

3800 m

Material:	2 elements + fragments
Identifiable taxa:	*Striatodontus prolificus* *Drepanoistodus nowlani*
Biozone:	*S. prolificus-S. lanceolatus* (shallow water) Zone
Chronostratigraphy:	Lower Ordovician
Lithostratigraphy:	Middle Boat Harbour Fm.
CAI:	1.0
Notes:	Represents fauna from both shallow and deep water zones

3805 m

Material:	1element
Identifiable taxa:	*Striatodontus* n. sp. A Ji and Barnes
Biozone:	*S. prolificus-S. lanceolatus* (shallow water) Zone
Chronostratigraphy:	Lower Ordovician
Lithostratigraphy:	Middle Boat Harbour Fm.
CAI:	1.0
Notes:	

3815 m

Material:	1 indeterminate element
CAI:	1.0
Notes:	

3820 m

Material: 2 elements
Identifiable taxa: *Macerodus dianae*
Drepanoistodus ?concavus
Biozone: *M. dianae - D. nowlani* (deep water) Zone
Chronostratigraphy: Lower Ordovician
Lithostratigraphy: Middle Boat Harbour Fm.
CAI: 1.5
Notes: These taxa span the Pebble Bed

3825-30 m

Material: 6 elements + 5 fragments
Identifiable taxa: *Drepanoistodus concavus*
Macerodus dianae
Glyptoconus emarginatus
G. quadriplicatus (CAI 3.0)
Biozone: *P. inconstans - S. subrex - S. prolificus-S. lanceolatus* (shallow water) zones
Chronostratigraphy: Lower Ordovician
Lithostratigraphy: Middle Boat Harbour Fm.
CAI: 1.0 - 1.5
Notes: These taxa span the Pebble Bed.

3850 m

Barren

3860-65 m

Material: 6 elements
Identifiable taxa: *Drepanoistodus* sp.
Glyptoconus quadriplicatus
Striatodontus n.sp. A Ji and Barnes
S. prolificus
Biozone: *P. inconstans - S. subrex - S. prolificus-S. lanceolatus* (shallow water) zones
Chronostratigraphy: Lower Ordovician
Lithostratigraphy: Middle Boat Harbour Fm.
CAI: 1.0 - 1.5
Notes: These taxa span the Pebble Bed.

3875 m

Material: 2 indeterminate fragments
CAI: 1.0
Notes:

3880 m

Material: 1 element
Identifiable taxa: *Glyptoconus felicitii*
Biozone: *S. prolificus - S. lanceolatus* (shallow water) Zone
Chronostratigraphy: Lower Ordovician
Lithostratigraphy: Middle Boat Harbour Fm.
CAI: 1.0
Notes: This taxon occurs below the Pebble Bed and above the Lower unconformity

3890 m

Material: 1 element
Identifiable taxa: *Striatodontus* n. sp. A Ji and Barnes
Biozone: *S. prolificus - S. lanceolatus* (shallow water) Zone
Chronostratigraphy: Lower Ordovician
Lithostratigraphy: Middle Boat Harbour Fm.
CAI: 1.0
Notes: This taxon occurs below the Pebble Bed

Watts Bight Formation

3900-05 m

Barren

Berry Head Formation

3995 m

Barren

4000 m

Barren

4015 m

Material: 2 elements
Identifiable taxa: *Teridontus obesus*
Drepanoistodus pervetus
Biozone: *P. falsioneotensis - R. tenuis* (shallow water) Zone
Chronostratigraphy: Lower Ordovician
Lithostratigraphy: Upper Watts Bight Fm.
CAI: 1.5
Notes:

4020 m

Material: 1 indeterminate element
CAI: 1.5
Notes:

4035 m
Barren

4050 m
Material: 1 ineterminate fragment
CAI: 1.5
Notes:

4070 m
Material: 2 elements
Identifiable taxa: *Teridontus nakamurai*
Semiacontiodus nogamii
Biozone: *T. nakamurai -S. nogamii* (shallow water) Zone
Chronostratigraphy: Lower Ordovician
Lithostratigraphy: Upper Berry Head- Lower Watts Bight Fm.
CAI: 1.5
Notes:

4075 m
Barren

4095 m
Material: 1 element
Identifiable taxa: *Teridontus nakamurai*
Biozone: *T. nakamurai -S. nogamii* (shallow water) Zone
Chronostratigraphy: Lower Ordovician
Lithostratigraphy: Upper Berry Head - Lower Watts Bight Fm.
CAI: 1.5
Notes:

4110 m
Material: 1 element
Identifiable taxa: *Teridontus nakamurai*
Biozone: *T. nakamurai -S. nogamii* (shallow water) Zone
Chronostratigraphy: Lower Ordovician
Lithostratigraphy: Upper Berry Head - Lower Watts Bight Fm.
CAI: 1.5
Notes:

Petit Jardin Formation
4125 m
Barren

4155 m
Barren

HUNT-PAN CANADIAN PORT AU PORT WELL #1 - GRAPTOLITE SAMPLES

Petit Jardin Formation

620 m

Material: A few indeterminate minute fragments
Notes: These are probably rooted, benthic dendroids which range from Middle or Upper Cambrian to Carboniferous and are of little or no use biostratigraphically.

Winterhouse Formation

2430 m

Material: A few unidentifiable diplograptid fragments
Chronostratigraphy: late Arenig - Silurian?

2420 m

Material: A few unidentifiable diplograptid fragments
Chronostratigraphy: late Arenig - Silurian?
Notes: Almost every sample in the unit that we now know to be the Winterhouse Fm. contained poorly preserved graptolite fragments

2430 m

Material: A few unidentifiable diplograptid fragments
Chronostratigraphy: late Arenig - Silurian?

2445 m

Material: A few unidentifiable diplograptid fragments
Chronostratigraphy: late Arenig - Silurian?

2465 m

Material: One poor specimen
Identifiable taxa: *Amplexograptus* sp. cf. *A. praetypicalis* Riva
Biozone: (lower?) *C. spiniferus* Zone
Chronostratigraphy: Middle-late Caradoc
Lithostratigraphy: Lower Winterhouse Fm.
Notes: The same taxon is known from the lower part of the Winterhouse Fm. at surface and also appears to occur in the Utica Shale (C.E. Mitchell, pers. comm.)

2470 m

Material: One poor specimen
Identifiable taxa: *Amplexograptus* sp. cf. *A. praetypicalis* Riva
Biozone: (lower?) *C. spiniferus* Zone
Chronostratigraphy: Middle-late Caradoc
Lithostratigraphy: Lower Winterhouse Fm.
Notes:

2535 m

Material:	Two small fragments
Identifiable taxa:	*Climacograptus spiniferus* Ruedemann (late form?) *Orthograptus* ex gr. *calcaratus* (Lapworth)
Biozone:	(late?) *C. spiniferus* Zone
Chronostratigraphy:	Late Caradoc
Lithostratigraphy:	Middle Winterhouse Fm.
Notes:	The small proximal spines are generally more typical of later representatives of *C. spiniferus*; the few specimens obtained from surface outcrop of the Winterhouse Fm. are all of this morphotype

2560 m

Material:	One poorly preserved specimen
Identifiable taxa:	*Orthograptus calcaratus cf. basilicus* Elles and Wood
Biozone:	*C. spiniferus* to *G. manitoulinensis* zones
Chronostratigraphy:	Late Caradoc-early Ashgill
Lithostratigraphy:	Winterhouse Fm.
Notes:	

2605 m

Material:	Five specimens, one well preserved
Identifiable taxa:	*Geniculograptus pygmaeus* (Ruedemann) *Orthograptus* sp.
Biozone:	*G. pygmaeus* Zone
Chronostratigraphy:	Latest Caradoc-earliest Ashgill
Lithostratigraphy:	Upper Winterhouse Fm.
Notes:	This zone index fossil has not yet been found at surface. We conclude that this level correlates with the red sandstone interval of the upper Winterhouse Fm. seen on Long Point

2655 m

Material:	A few poor examples
Identifiable taxa:	*Orthograptus calcaratus cf. basilicus* Elles and Wood
Biozone:	*C. spiniferus* to *G. manitoulinensis* zones
Chronostratigraphy:	Late Caradoc-early Ashgill
Lithostratigraphy:	Winterhouse Fm.
Notes:	

2665 m

Material:	A few poor examples
Identifiable taxa:	*Orthograptus calcaratus cf. basilicus* Elles and Wood
Biozone:	*C. spiniferus* to *G. manitoulinensis* zones
Chronostratigraphy:	Late Caradoc-early Ashgill
Lithostratigraphy:	Winterhouse Fm.
Notes:	

2695 m

Material: Five good fragmentary specimens
Identifiable taxa: *Orthograptus calcaratus cf. basilicus* Elles and Wood
Biozone: *C. spiniferus* to *G. manitoulinensis* zones
Chronostratigraphy: Late Caradoc-early Ashgill
Lithostratigraphy: Winterhouse Fm.
Notes:

2700 m

Material: Three good fragmentary specimens
Identifiable taxa: *Orthograptus calcaratus cf. basilicus* Elles and Wood
Biozone: *C. spiniferus* to *G. manitoulinensis* zones
Chronostratigraphy: Late Caradoc-early Ashgill
Lithostratigraphy: Winterhouse Fm.
Notes:

2845 m

Material: Several poorly preserved but identifiable specimens
Identifiable taxa: *Orthograptus calcaratus cf. basilicus* Elles and Wood
Geniculograptus cf. *G. typicalis* (Hall)
Glyptograptus sp. cf. *G. hudsoni* (Nicholson)
Climacograptus spiniferus Ruedemann?
Biozone: Upper *C. spiniferus* Zone or lower *G. pygmaeus* Zone
Chronostratigraphy: Late Caradoc
Lithostratigraphy: Middle Winterhouse Fm.
Notes:

3045 m

Material: Two fragmentary specimens
Identifiable taxa: *Amplexograptus* sp. cf. *A. praetypicalis* Riva
Biozone: (lower?) *C. spiniferus* Zone
Chronostratigraphy: Middle-late Caradoc
Lithostratigraphy: Lower Winterhouse Fm.
Notes: This suggests the same level in the Winterhouse Fm. as 2465 m and 2470 m (see above)

"Sub-Lourdes formation B"

3200 m

Material: Several poor fragments
Identifiable taxa: Indeterminate diplograptids
Notes: Material insufficient for age determination

3205 m

Material:	Several poor fragments
Identifiable taxa:	*Amplexograptus multidens* (Elles and Wood)? [= *A. foliaceus* (Murchison)]
Biozone:	*A. multidens* Zone?
Chronostratigraphy:	Early Caradoc
Lithostratigraphy:	"sub-Lourdes Fm. B"
Notes:	This species is distinct from all graptolites found in the Winterhouse Fm. Even if it does not belong to *A. multidens*, we believe that it indicates a stratigraphically older level than that formation. This agrees with previous conodont-based suggestions that the Lourdes Fm. correlates with the *A. multidens* graptolite Zone

Goose Tickle Group

Many samples from 3255 m to 3595 m, assigned to the American Tickle and Cape Cormorant formations on lithological grounds, contained abundant graptolite fragments. Unfortunately, unlike the shales and sandstones from the Winterhouse Formation, the cuttings had almost invariably fractured at a high angle to bedding during drilling, so graptolites could only be seen in section. These were unidentifiable and could not be used for stratigraphic assignment.

HUNT-PAN CANADIAN PORT AU PORT WELL #1 - PALYNOMORPH SAMPLES

Catoche Formation

35 m

Material:	Amorphous masses and granules; rare pyrite
Identifiable taxa:	
Concentration:	0 grains/g
TAI:	2.95 on amorphous material; faint brown fluorescence
Maturity:	Mature
Notes:	

75 m

Material:	Amorphous masses and granules with some pellets; scattered acritarchs; abundant zooclast fragments; pyrite common
Identifiable taxa:	Sphaeromorphs - including large and granular forms large fusiform cysts
Concentration:	22 grains/g
TAI:	2.90 on amorphous material; 2.92(.04) on acritarchs; 2.93 on zooclasts; no fluorescence
Maturity:	Mature - borderline overmature
Notes:	

115 m

Material:	Amorphous masses; scattered acritarchs and zooclast fragments; pyrite common
Identifiable taxa:	Sphaeromorphs - including large and granular forms
Concentration:	23 grains/g
TAI:	2.90 on amorphous material; 2.89(.04) on acritarchs; 2.86 on zooclasts; no fluorescence
Maturity:	Mature - borderline overmature
Notes:	zooclasts? are apparently parts of large spheres. One large sphaeromorph with a pylome

Boat Harbour Formaion

135 m

Material:	Abundant amorphous masses and granules; common acritarchs and zooclast fragments; pyrite abundant
Identifiable taxa:	Sphaeromorphs - including large and granular forms Acanthomorphs *Acrum* sp. Scolecodonts
Concentration:	168 grains/g
TAI:	2.90(.05) on amorphous material; 2.92(.05) on acritarchs; 2.93 on zooclasts; faint red fluorescence on amorphous matter
Maturity:	Mature
Notes:	"reticulate" acritarchs relatively common

160 m

Material: Abundant amorphous masses and granules; rare acritarchs and abundant zooclast fragments

Identifiable taxa: Sphaeromorphs - including large and granular forms
large fusiform cysts
oddly shaped "spiral" cysts

Concentration: 37 grains/g

TAI: 2.95 on amorphous material; 2.84(.07) on acritarchs; 2.86 on zooclasts; no fluorescence

Maturity: Mature - borderline overmature

Notes:

175 m

Material: Amorphous masses and abundant granules; rare acritarchs and abundant zooclast fragments; common pyrite

Identifiable taxa: Sphaeromorphs - including large and granular forms
Acanthomorphs
Acrum sp.
Scolecodont

Concentration: 21 grains/g

TAI: 2.90 on amorphous material; 2.92(.03) on acritarchs; 2.91 on zooclasts; faint red fluorescence on amorphous material and scolecodont

Maturity: Mature

Notes:

205 m

Material: Amorphous masses and abundant granules; very rare acritarch and common zooclast fragments

Identifiable taxa: Sphaeromorphs - including large and granular forms
Scolecodont
three-cell clusters of reticulate spheres

Concentration: 10 grains/g

TAI: 2.90(.07) on amorphous material: 2.80 on acritarch; 2.88 on zooclasts; faint red fluorescence on amorphous material

Maturity: Mature

Notes:

230 m

Material: Amorphous masses and abundant granules; very rare acritarchs and zooclast fragments

Identifiable taxa: Sphaeromorphs - includes rare large and granular forms
Scolecodont
three-cell clusters of reticulate spheres

Concentration: 15 grains/g

TAI: 2.93(.03) on amorphous material: 2.93(.03) on acritarchs; 2.91 on zooclasts; faint red fluorescence on scolecodont

Maturity: Mature

Notes:

240 m

Material:	Abundant amorphous granules; very rare acritarchs and zooclast fragments; abundant pyrite
Identifiable taxa:	Sphaeromorphs
Concentration:	10 grains/g
TAI:	2.95 on amorphous material; 2.85 on acritarchs; 2.83 on zooclasts; no fluorescence
Maturity:	Mature - borderline overmature
Notes:	

265 m

Material:	Abundant amorphous granules; rare acritarchs and abundant zooclast fragments; abundant pyrite
Identifiable taxa:	Sphaeromorphs - including large and granular forms Acanthomorphs *Acrum* sp. large fusiform cysts three-cell clusters five-cell clusters
Concentration:	69 grains/g
TAI:	2.95 on amorphous material; 2.94(.03) on acritarchs; 2.94 on zooclasts; no fluorescence
Maturity:	Mature - borderline overmature
Notes:	some sphaeromorphs more than 100 µm; "zooclasts" look like parts of very large spherical and fusiform cysts.

285 m

Material:	Abundant amorphous granules; rare acritarchs and zooclast fragments; common pyrite
Identifiable taxa:	Sphaeromorphs Scolecodont
Concentration:	5 grains/g
TAI:	2.93(.03) on amorphous material; 2.90(.05) on acritarchs; 2.85 on zooclasts; no fluorescence
Maturity:	Mature - borderline overmature
Notes:	"zooclasts" look like parts of very large spherical cysts.

Watts Bight Formation

320 m

Material:	Abundant amorphous granules some masses and pellets; very rare acritarch and rare zooclast fragments; rare pyrite
Identifiable taxa:	Sphaeromorph
Concentration:	3 grains/g
TAI:	2.95 on amorphous material; 2.90 on acritarch; 2.90 on zooclasts; no fluorescence
Maturity:	Mature - borderline overmature
Notes:	

360 m

Material: Abundant amorphous masses and rare pellets; very rare zooclast fragments; very rare pyrite
Identifiable taxa:
Concentration: 0 grains/g
TAI: 2.93 on amorphous material; 2.87 on zooclasts; no fluorescence
Maturity: Mature - borderline overmature
Notes:

400 m

Material: Abundant amorphous granules; rare zooclast fragments; common pyrite
Identifiable taxa:
Concentration: 0 grains/g
TAI: 2.95(.02) on amorphous material; 2.92 on zooclasts; no fluorescence
Maturity: Mature - borderline overmature
Notes:

Berry Head Formation

440 m

Material: Amorphous granules; abundant pyrite
Identifiable taxa:
Concentration: 0 grains/g
TAI: 2.94(.02) on amorphous material; no fluorescence
Maturity: Mature - borderline overmature
Notes:

465 m

Material: Abundant amorphous masses; rare acritarchs; common pyrite
Identifiable taxa: Sphaeromorphs
structured cell masses
Concentration: 134 grains/g
TAI: 3.14(.22) on amorphous material; 3.14(.10) on acritarchs; no fluorescence
Maturity: Overmature
Notes:

485 m

Material: Abundant amorphous granules; very rare zooclast; common pyrite
Identifiable taxa:
Concentration: 0 grains/g
TAI: 2.97(.03) on amorphous material; 2.90 on zooclast; no fluorescence
Maturity: Overmature
Notes:

490 m

Material:	Amorphous masses and pellets; rare acritarchs; common pyrite
Identifiable taxa:	Sphaeromorphs Acanthomorph
Concentration:	27 grains/g
TAI:	3.23 on amorphous material; 3.15(.19) on acritarchs; no fluorescence
Maturity:	Overmature
Notes:	

525 m

Material:	Amorphous masses and granules; abundant pyrite
Identifiable taxa:	
Concentration:	0 grains/g
TAI:	3.38 on amorphous material; no fluorescence
Maturity:	Overmature
Notes:	

555 m

Material:	Amorphous masses; abundant pyrite
Identifiable taxa:	
Concentration:	0 grains/g
TAI:	3.05(.18) on amorphous material; no fluorescence
Maturity:	Overmature
Notes:	

Petit Jardin Formation

585 m

Material:	Amorphous masses; rare acritarchs
Identifiable taxa:	Sphaeromorphs
Concentration:	33 grains/g
TAI:	3.26 on amorphous material; 2.98(.03) on acritarchs; no fluorescence
Maturity:	Mature - borderline overmature
Notes:	

595 m

Material:	Amorphous masses; very rare zooclast; abundant pyrite
Identifiable taxa:	
Concentration:	0 grains/g
TAI:	3.07 on amorphous material; 3.10 on zooclast; no fluorescence
Maturity:	Overmature
Notes:	

640 m

Material: Amorphous masses; rare acritarchs; very rare zooclasts; abundant pyrite
Identifiable taxa: Sphaeromorphs
Concentration: 11 grains/g
TAI: 3.12(.17) on amorphous material; 3.01(.11) on acritarchs; 3.00 on zooclasts; no fluorescence
Maturity: Overmature
Notes:

680 m

Material: Amorphous masses; abundant pyrite
Identifiable taxa:
Concentration: 0 grains/g
TAI: 3.25(.17) on amorphous material; no fluorescence
Maturity: Overmature
Notes:

725 m

Material: Some amorphous masses; common acritarchs and zooclasts; common pyrite
Identifiable taxa: Sphaeromorphs
Acanthomorphs
Goniomorpha? sp.
Corollasphaeridium? sp.
filaments
chains
clusters
vase-shaped "zooclasts"
Concentration: 470 grains/g
Chronostratigraphy: Upper Cambrian or Lower Ordovician
TAI: 3.38(.22) on amorphous material; 3.02(.11) on acritarchs; 3.20 on zooclasts; no fluorescence
Maturity: Overmature
Notes: Acritarchs correspond with forms observed in Upper Cambrian and Tremadoc strata from China and Wilcox Pass, Alberta

760 m

Material: Some amorphous masses; rare acritarchs; common pyrite
Identifiable taxa: Sphaeromorphs
filaments
Concentration: 44 grains/g
TAI: 3.02(.08) on amorphous material; 2.95(.04) on acritarchs; no fluorescence
Maturity: Mature - borderline overmature
Notes:

780 m

Material:	Some amorphous masses: rare acritarchs: very rare zooclasts; common pyrite
Identifiable taxa:	Sphaeromorphs
Concentration:	33 grains/g
TAI:	3.29(.10) on amorphous material; 2.98(.03) on acritarchs; 2.95 on zooclast; no fluorescence
Maturity:	Mature - borderline overmature
Notes:	

825 m

Material:	Some amorphous masses: very rare zooclast; common pyrite
Identifiable taxa:	
Concentration:	0 grains/g
TAI:	3.23(.20) on amorphous material; 3.00 on zooclast; no fluorescence
Maturity:	Overmature
Notes:	

865 m

Material:	Some amorphous masses: common acritarchs; very rare zooclast
Identifiable taxa:	Sphaeromorphs fusiform cysts *Acanthodiacrodium* sp. clusters
Concentration:	2040 grains/g
TAI:	3.18(.18) on amorphous material; 3.08(.13) on acritarchs; 3.20 on zooclasts; no fluorescence
Maturity:	Overmature
Notes:	

880 m

Material:	Some amorphous masses: rare acritarchs; very rare zooclast
Identifiable taxa:	Sphaeromorphs *Corollasphaeridium?* sp. *Goniomorpha?* sp. multi-cell clusters
Concentration:	8 grains/g
Chronostratigraphy:	Upper Cambrian or Lower Ordovician
TAI:	3.26(.19) on amorphous material; 3.11(.19) on acritarchs; 3.40 on zooclasts; no fluorescence
Maturity:	Overmature
Notes:	Acritarchs correspond with forms observed in Upper Cambrian and Tremadoc strata from China and Wilcox Pass, Alberta

March Point Formation

900 m

Material:	Common acritarchs
Identifiable taxa:	Sphaeromorphs
	Acanthomorph
	Cymatiosphaera sp.
	Comasphaeridium sp.
	three-cell clusters
	multi-cell clusters
Concentration:	4602 grains/g
TAI:	2.94(.13) on acritarchs; no fluorescence
Maturity:	Mature - borderline overmature
Notes:	

940 m

Material:	Amorphous granules; common acritarchs; common pyrite
Identifiable taxa:	Sphaeromorphs
	three-cell clusters
	multi-cell clusters
Concentration:	645 grains/g
TAI:	3.10(.25) on amorphous material; 3.12(.13) on acritarchs; no fluorescence
Maturity:	Overmature
Notes:	

Forteau Formation

1255 m

Material:	Abundant acritarchs
Identifiable taxa:	Sphaeromorphs
	Dictyotidium sp.
	Leovalia? sp.
	Cymatiosphaera sp.
	three-cell clusters
	multi-cell clusters
	filaments
Concentration:	28977 grains/g
TAI:	2.87 on amorphous material; 2.82(.14) on acritarchs; no fluorescence
Maturity:	Mature - borderline overmature
Notes:	

1315 m

Material:	Abundant acritarchs
Identifiable taxa:	Sphaeromorphs
	Acrum sp.
	Comasphaeridium sp.
	three-cell clusters
	multi-cell clusters
Concentration:	58204 grains/g
TAI:	2.93(.05) on acritarchs; no fluorescence
Maturity:	Mature - borderline overmature
Notes:	

1350 m

Material:	Abundant acritarchs
Identifiable taxa:	Sphaeromorphs
	Acanthomorphs
	Micrhystridium sp.
	Acrum sp.
	Pterospermella sp.
	Cymatiosphaera sp. cf. *C. luminosa*
	Granomarginata sp.
	Liepaina? plana
	three-cell clusters
	multi-cell clusters
Concentration:	98088 grains/g
Chronostratigraphy:	upper part of the Lower Cambrian - Middle Cambrian
TAI:	2.80(.06) on acritarchs; no fluorescence
Maturity:	Mature
Notes:	

1390 m

Material:	Abundant acritarchs
Identifiable taxa:	Sphaeromorphs
	Acanthomorphs
	Acrum sp.
	Pterospermella vitalis
	Comasphaeridium sp.
	Granomarginata squamacea
	Lophosphaeridium sp.
	Lophosphaeridium tentativum
	Heliosphaeridium sp.
	Micrhystridium tornatum
	Micrhystridium lanatum
	Volkovia sp.
	Dictyotidium sp. cf. *D. birvetense*
	Retisphaeridium dichamerum
	three-cell clusters
	multi-cell clusters
Concentration:	38480 grains/g
Biozone:	upper part of *Holmia* Zone or *Protolenus* Zone (upper part of *Heliosphaeridium dissimilare - Skiagia cillosa* Zone to *Volkovia dentifera - Liepaina plana* Zone of Lower Cambrian eastern European acritarch zonation
Chronostratigraphy:	upper part of the Lower Cambrian
Lithostratigraphy:	Forteau Formation
TAI:	2.84(.09) on acritarchs; no fluorescence
Maturity:	Mature - borderline overmature
Notes:	

1450 m

Material:	Abundant acritarchs
Identifiable taxa:	Sphaeromorphs
	Acanthomorphs
	Acrum sp.
	Skiagia ornata
	Cymatiosphaera sp.
	Granomarginata squamacea
	Comasphaeridium sp.
	Micrhystridium tornatum
	Micrhystridium spinosum
	multi-cell clusters
Concentration:	15625 grains/g
Biozone:	(see note)
Chronostratigraphy:	(see note)
Lithostratigraphy:	Forteau Formation
TAI:	2.83(.09) on acritarchs; no fluorescence
Maturity:	Mature - borderline overmature
Notes:	Acritarchs characteristic of all Lower Cambrian zones with the exception of the lowest Cambrian

1500 m

Material:	Abundant acritarchs
Identifiable taxa:	Sphaeromorphs
	Acanthomorphs
	Skiagia sp.
	Skiagia compressa
	Skiagia scottica
	Skiagia sp. cf. *S. insigne*
	Cymatiosphaera sp.
	Granomarginata squamacea
	Comasphaeridium sp.
	Leiovalia sp.
	Acrum sp.
	Globosphaeridium cerinum
	Lophosphaeridium sp.
	Lophosphaeridium dubium
	Lophosphaeridium truncatum
	Heliosphaeridium sp.
	Retisphaeridium dichamerum
	dyads
	multi-cell clusters
	filaments
Concentration:	7690 grains/g
Biozone:	*Skiagia - Fimbriaglomerella* Zone to *Volkovia dentifera - Liepaina plana* Zone of Lower Cambrian eastern European acritarch zonation
Chronostratigraphy:	Lower (not lowest) Cambrian
Lithostratigraphy:	Forteau Formation
TAI:	2.95(.06) on acritarchs; no fluorescence
Maturity:	Mature - borderline overmature
Notes:	

1530 m

Material:	Abundant acritarchs
Identifiable taxa:	Sphaeromorphs
	Acanthomorphs
	Skiagia sp.
	Skiagia ciliosa
	Skiagia scottia
	Skiagia insigne
	Skiagia ornata
	Cymatiosphaera membranacea?
	Cymatiosphaera postii?
	Cymatiosphaera sp. cf. *C. minuta?*
	Granomarginata squamacea
	Comasphaeridium sp.
	Goniosphaeridium varium
	Goniosphaeridium sp.
	Acrum sp.
	Alliumella baltica
	Celtiberium? sp.
	Lophosphaeridium sp.
	Lophosphaeridium tentativum
	Baltisphaeridium cerinum
	Leiovalia sp.
	Tasmanites bobrowski
	Dictyotidium sp. cf. *D. birvetense*
	dyads
	multi-cell clusters
	filaments
Concentration:	8978 grains/g
Biozone:	
Chronostratigraphy:	Lower Cambrian (but not the lowest part nor the highest part)
Lithostratigraphy:	Forteau Formation
TAI:	2.85(.13) on acritarchs; no fluorescence
Maturity:	Mature - borderline overmature
Notes:	Oil stain formed during acid digestion. *Lophosphaeridium tentativum* suggests this is not uppermost Lower Cambrian

Bradore Formation

1580 m

Material:	Abundant acritarchs; common zooclasts
Identifiable taxa:	Sphaeromorphs
	Acanthomorphs
	Skiagia sp.
	Micrhystridium sp.
	Cymatiosphaera sp.
	Granomarginata squamacea
	Goniosphaeridium sp.
	Acrum sp.
	Alliumella baltica
	Volkovia dentifera
	Leiovalia sp.
	dyads
	multi-cell clusters
	filaments
Concentration:	13144 grains/g
Biozone:	*Volkovia* - *Liepaina* Zone of east European acritarch zonation
Chronostratigraphy:	upper part of the Lower Cambrian
Lithostratigraphy:	Forteau Formation
TAI:	2.78(.18) on acritarchs; 3.09 on zooclasts; no fluorescence
Maturity:	Mature
Notes:	Oil stain formed during acid digestion. Fossils inconsistent with lithology - suspect caving.

1630 m

Material:	Abundant acritarchs
Identifiable taxa:	Sphaeromorphs Acanthomorphs *Skiagia* sp. *Skiagia orbiculare* *Skiagia scottica* *Skiagia ornata* *Granomarginata squamacea* *Pterospermella vitalis?* *Leiovalia* sp. *Alliumella baltica* *Acrum* sp. *Globosphaeridium cerinum* *Lophosphaeridium tentativum* *Dictyotidium* sp. cf. *D. birvetense* dyads multi-cell clusters filaments
Concentration:	13917 grains/g
Biozone:	*Heliosphaeridium* - *Skiagia* and *Skiagia* - *Fimbriaglomerella* Zones
Chronostratigraphy:	Lower Cambrian - two middle acritarch zones of east European zonation
TAI:	2.96(.20) on acritarchs; no fluorescence
Maturity:	Mature - borderline overmature
Notes:	Oil stain formed during acid digestion. Fossils not entirely consistent with lithology - suspect caving.

1660 m

Material:	Abundant acritarchs
Identifiable taxa:	Sphaeromorphs Acanthomorphs *Micrhystridium* sp. *Granomarginata squamacea* *Goniosphaeridium varium* *Cymatiosphaera minuta* *Skiagia* sp. *Acrum* sp. *Lophosphaeridium tentativum* *Dictyotidium* sp. cf. *D. birvetense* dyads multi-cell clusters filaments
Concentration:	1553 grains/g
Biozone:	*Heliosphaeridium* - *Skiagia* and *Skiagia* - *Fimbriaglomerella* Zones
Chronostratigraphy:	Lower Cambrian - two middle acritarch zones of east European zonation
TAI:	2.88(.16) on acritarchs; no fluorescence
Maturity:	Mature - borderline overmature
Notes:	Oil stain formed during acid digestion. One small bitumen droplet observed on slide. Fossils not entirely consistent with lithology - suspect caving.

1700 m

Material:	Amorphous granules; abundant acritarchs; very rare zooclasts
Identifiable taxa:	Sphaeromorphs Acanthomorphs *Granomarginata squamacea* *Skiagia* sp. *Micrhystridium* sp. *Acrum* sp. *Lophosphaeridium* sp. *Retisphaeridium dichamerum* multi-cell clusters filaments
Concentration:	4578 grains/g
Biozone:	All of the eastern European zones except the lowest part of the Lower Cambrian
Chronostratigraphy:	Lower (not lowest) Cambrian
TAI:	2.90 on amorphous material; 2.98(.13) on acritarchs; 2.90 on zooclasts; no fluorescence
Maturity:	Mature - borderline overmature
Notes:	Fossils not entirely consistent with lithology - suspect caving.

Precambrian basement

1720 m

Material:	Amorphous granules; common acritarchs; very rare zooclasts; abundant pyrite
Identifiable taxa:	Sphaeromorphs Acanthomorphs *Retisphaeridium dichamerum* *Skiagia* sp. multi-cell clusters filaments
Concentration:	406 grains/g
Biozone:	All of the eastern European zones except the lowest part of the Lower Cambrian
Chronostratigraphy:	Lower (not lowest) Cambrian
TAI:	3.38(.07) on amorphous material; 2.91(.14) on acritarchs; 3.20 on zooclasts; no fluorescence
Maturity:	Mature - borderline overmature
Notes:	Fossils not consistent with lithology - probable caving.

Winterhouse Formation

2325 m

Material:	Amorphous granules; common acritarchs; common zooclasts?
Identifiable taxa:	Sphaeromorphs Acanthomorph *Acrum* sp. multi-cell clusters tissue - multi-cell sheets - zooclasts?
Concentration:	688 grains/g
TAI:	3.22(.12) on amorphous material; 2.99(.09) on acritarchs; 2.96 on zooclasts?; no fluorescence
Maturity:	Mature - borderline overmature
Notes:	No age diagnostic fossils. *Acrum* sp. is present in the Forteau Formation - it may be caved.

2350 m

Material:	Amorphous granules; common acritarchs; common zooclasts
Identifiable taxa:	Sphaeromorphs Acanthomorphs *Micrhystridium* sp. multi-cell clusters filaments
Concentration:	282 grains/g
TAI:	2.17(.98) on acritarchs; 3.10 on zooclasts?; bright yellow through dull red and black fluorescence
Maturity:	Mature (see note)
Notes:	Pronounced bimodal distribution in TAI and Fluorescence. Lower values from immature fossils (TAI - 1.2) may be correct.

2355 m

Material:	Common acritarchs; common zooclasts
Identifiable taxa:	Sphaeromorphs Acanthomorphs *Micrhystridium* sp. *Veryhachium* sp. *Veryhachium oklahomense* *Skiagia* sp. *Acrum* sp. *Granomarginata* sp. *Goniosphaeridium* sp. *Navifusa* sp. *Leiofusa* sp. *Baltisphaeridium* sp. multi-cell clusters tissue - multi-cell sheets - zooclasts? filaments
Concentration:	5722 grains/g
Chronostratigraphy:	Caradoc-Ashgill?
TAI:	2.89 on amorphous material; 2.91(.17) on acritarchs; 2.90 on zooclasts?; bright yellow through dull red and black fluorescence
Maturity:	Mature - borderline overmature (see note)
Notes:	Probably reworked cataclastite or cavings. Dominant non-fluorescing acritarchs are Lower Cambrian. Rarely observed fluorescing fossils identified outside counts are non-diagnostic taxa which, collectively suggest a Caradoc or Ashgill assemblage.

2370 m

Material:	Common acritarchs; common zooclasts; common pyrite
Identifiable taxa:	Sphaeromorphs Acanthomorphs *Veryhachium* sp. *Veryhachium oklahomense* *Micrhystridium* sp. *Granomarginata* sp. multi-cell clusters
Concentration:	2188 grains/g
TAI:	1.71(.66) on acritarchs; 2.59 on zooclasts?; bright yellow - 1.98(.63) fluorescence is dominant
Maturity:	Immature (see note)
Notes:	Pronounced bimodal distribution in TAI and Fluorescence. Lower values from immature fossils (TAI - 1.3) may be correct. Some Lower Cambrian fossils as cavings. Rare droplets of bitumen in slide.

2390 m

Material:	Amorphous masses; common acritarchs and zooclasts; common pyrite
Identifiable taxa:	Sphaeromorphs Acanthomorphs *Veryhachium oklahomense* *Veryhachium hamii* *Micrhystridium* sp. *Multiplicisphaeridium* sp. *Multiplicisphaeridium continuatum* *Baltisphaeridium* sp. *Skiagia* sp.
Concentration:	6498 grains/g
Chronostratigraphy:	Probably Caradoc - Ashgill
TAI:	2.80 on amorphous matter; 1.55(.56) on acritarchs; 2.51 on zooclasts?; bright yellow - 1.90(.69) fluorescence is dominant
Maturity:	Immature (see note)
Notes:	Pronounced bimodal distribution in TAI and Fluorescence. Lower values from immature fossils (TAI - 1.3) may be correct. Caved Lower Cambrian fossils are rare.

2405 m

Material:	Abundant acritarchs; common zooclasts; common pyrite
Identifiable taxa:	Sphaeromorphs Acanthomorphs *Veryhachium* sp. *Veryhachium* sp. A of Jacobson and Achab *Veryhachium oklahomense* *Micrhystridium* sp. *Multiplicisphaeridium* sp. *Baltisphaeridium* sp. *Goniosphaeridium* spp. *Acrum* sp. Scolecodonts
Concentration:	9371 grains/g
Chronostratigraphy:	Probably Caradoc - Ashgill
TAI:	1.65(.55) on acritarchs; 2.62 on zooclasts; bright yellow - 1.90(.74) fluorescence is dominant
Maturity:	Immature (see note)
Notes:	Pronounced bimodal distribution in TAI and Fluorescence. Lower values from immature fossils (TAI - 1.3 and 1.6) may be correct.

2420 m

Material:	Amorphous masses; abundant acritarchs: very rare zooclast; common pyrite
Identifiable taxa:	Sphaeromorphs Acanthomorphs *Veryhachium* sp. *Veryhachium* sp. A of Jacobson and Achab *Micrhystridium* sp. *Multiplicisphaeridium* sp. *Baltisphaeridium* sp. *Goniosphaeridium* sp. Scolecodonts
Concentration:	3893 grains/g
Chronostratigraphy:	Probably Caradoc - Ashgill
TAI:	2.80 on amorphous material; 1.71(.66) on acritarchs; 2.80 on zooclast; bright yellow - 1.94(.54) fluorescence is dominant
Maturity:	Immature (see note)
Notes:	Weak bimodal distribution in TAI and Fluorescence. Lower values from immature fossils (TAI - 1.3 and 1.6) may be correct.

2435 m

Material:	Abundant acritarchs; rare zooclast; rare pyrite
Identifiable taxa:	Sphaeromorphs Acanthomorphs *Veryhachium* sp. *Veryhachium oklahomense* *Veryhachium* sp. A of Jacobson and Achab *Micrhystridium* sp. *Multiplicisphaeridium* sp. *Baltisphaeridium* sp. *Goniosphaeridium* sp. *Navifusa* sp. *Leovalia* sp. *Leiofusa fusiformis*
Concentration:	101132 grains/g
Chronostratigraphy:	Probably Caradoc - Ashgill
TAI:	2.80 on amorphous material; 1.64(.48) on acritarchs; 2.59 on zooclasts; bright yellow - 1.75(.57) fluorescence is dominant
Maturity:	Immature (see note)
Notes:	Weak bimodal distribution in TAI and Fluorescence. Lower values from immature fossils (TAI - 1.3 and 1.6) may be correct.

2445 m

Material:	Abundant acritarchs; rare zooclast; rare pyrite
Identifiable taxa:	Sphaeromorphs
	Acanthomorphs
	Veryhachium sp.
	Veryhachium sp. A of Jacobson and Achab
	Micrhystridium sp.
	Multiplicisphaeridium sp.
	Baltisphaeridium sp.
	Goniosphaeridium sp.
	Navifusa sp.
	Ordovicidium fissum
	Leiofusa sp.
Concentration:	5449 grains/g
Chronostratigraphy:	Caradoc - Ashgill
Lithostratigraphy:	Winterhouse Formation
TAI:	1.61(.36) on acritarchs; 2.80 on zooclasts; bright yellow - 1.82(.50) fluorescence is dominant
Maturity:	Immature (see note)
Notes:	Weak bimodal distribution in TAI and Fluorescence. Lower values from immature fossils (TAI - 1.3 and 1.6) may be correct. Assemblage similar to Trenton and lower Utica assemblages from Quebec.

2460 m

Material:	Abundant acritarchs; rare zooclasts; common pyrite
Identifiable taxa:	Sphaeromorphs
	Acanthomorphs
	Veryhachium sp.
	Micrhystridium sp.
	Multiplicisphaeridium sp.
	Baltisphaeridium sp.
	Goniosphaeridium sp.
	Navifusa sp.
	Comasphaeridium lanugiferum
	Sylvanidium sp.
	Ordovicidium sp.
	Leiofusa fusiformis
Concentration:	13162 grains/g
Chronostratigraphy:	Caradoc - Ashgill
Lithostratigraphy:	Winterhouse Formation
TAI:	2.80 on amorphous material; 1.76(.51) on acritarchs; 2.50 on zooclasts; bright yellow - 1.99(.51) fluorescence is dominant
Maturity:	Immature - borderline mature (see note)
Notes:	Weak bimodal distribution in TAI and Fluorescence. Lower values from immature fossils (TAI - 1.3 and 1.6) may be correct.

2495 m

Material:	Abundant acritarchs and zooclasts; common pyrite
Identifiable taxa:	Sphaeromorphs
	Acanthomorphs
	Veryhachium sp.
	Veryhachium sp. A. of Jacobson and Achab
	Micrhystridium sp.
	Multiplicisphaeridium sp.
	Baltisphaeridium sp.
	Goniosphaeridium sp.
	Navifusa sp.
	Leiofusa sp.
	Scolecodonts
	Chitinozoa
Concentration:	2026 grains/g
Chronostratigraphy:	Caradoc - Ashgill
Lithostratigraphy:	Winterhouse Formation
TAI:	2.04(.51) on acritarchs; 2.90 on zooclasts; yellow - 2.07(.59) fluorescence is dominant
Maturity:	Mature (see note)
Notes:	Weak bimodal distribution in TAI and Fluorescence. Lower values from immature fossils (TAI - 1.6) may be correct.

2540 m

Material:	Abundant acritarchs and zooclasts; rare pyrite
Identifiable taxa:	Sphaeromorphs
	Acanthomorphs
	Veryhachium sp.
	Veryhachium sp. A. of Jacobson and Achab
	Micrhystridium sp.
	Ordovicidium sp.
	Baltisphaeridium sp.
	Goniosphaeridium sp.
	Lophosphaeridium sp.
	Ordovicidium groetlingboense
	Leiofusa sp.
Concentration:	2911 grains/g
Chronostratigraphy:	Caradoc - Ashgill
Lithostratigraphy:	Winterhouse Formation
TAI:	1.78(.44) on acritarchs; 2.92 on zooclasts; orange-yellow - 2.12(.51) fluorescence is dominant
Maturity:	Immature - borderline mature (see note)
Notes:	Weak bimodal distribution in TAI and Fluorescence. Lower values from immature fossils (TAI - 1.6) may be correct.

2580 m

Material:	Abundant acritarchs and zooclasts; rare pyrite
Identifiable taxa:	Sphaeromorphs Acanthomorphs *Veryhachium* sp. *Micrhystridium* sp. *Ordovicidium* sp. *Baltisphaeridium* sp. *Goniosphaeridium* sp. *Multiplicisphaeridium* sp. *Ordovicidium* sp. *Leiofusa* sp.
Concentration:	7602 grains/g
Chronostratigraphy:	Caradoc - Ashgill
Lithostratigraphy:	Winterhouse Formation
TAI:	1.85(.47) on acritarchs; 3.13 on zooclasts; yellow - 1.96(.48) fluorescence is dominant
Maturity:	Immature - borderline mature (see note)
Notes:	Bimodal distribution in TAI and Fluorescence. Lower values from immature fossils (TAI - 1.6) may be correct.

2620 m

Material:	Abundant acritarchs and zooclasts; common pyrite
Identifiable taxa:	Sphaeromorphs Acanthomorphs *Veryhachium* sp. *Micrhystridium* sp. *Ordovicidium* sp. *Baltisphaeridium* sp. *Goniosphaeridium* sp. *Multiplicisphaeridium* sp. *Multiplicisphaeridium cladum* *Leovalia* sp. *Leiofusa* sp.
Concentration:	2966 grains/g
Chronostratigraphy:	Caradoc - Ashgill
Lithostratigraphy:	Winterhouse Formation
TAI:	1.83(.52) on acritarchs; 2.95 on zooclasts; yellow - 1.93(.56) fluorescence is dominant
Maturity:	Immature - borderline mature (see note)
Notes:	Bimodal distribution in TAI and Fluorescence. Lower values from immature fossils (TAI - 1.6) may be correct.

2660 m

Material:	Amorphous granules and masses; abundant acritarchs and zooclasts; common pyrite
Identifiable taxa:	Sphaeromorphs Acanthomorphs *Veryhachium* sp. *Micrhystridium* sp. *Ordovicidium* sp. *Baltisphaeridium* sp. *Goniosphaeridium* sp. *Multiplicisphaeridium* sp. *Leovalia* sp. *Leiofusa* sp. Chitinozoa Scolecodonts
Concentration:	2762 grains/g
Chronostratigraphy:	Caradoc - Ashgill
Lithostratigraphy:	Winterhouse Formation
TAI:	3.00 on amorphous material; 2.01(.55) on acritarchs; 2.80 on zooclasts; orange-yellow - 2.13(.53) fluorescence is dominant
Maturity:	Mature (see note)
Notes:	Bimodal distribution in TAI and Fluorescence. Lower values from immature fossils (TAI - 1.6) may be correct.

2700 m

Material:	Amorphous granules and masses; abundant acritarchs and zooclasts; common pyrite
Identifiable taxa:	Sphaeromorphs Acanthomorphs *Veryhachium* sp. *Veryhachium* sp. A. of Jacobson and Achab *Micrhystridium* sp. *Baltisphaeridium* sp. *Baltisphaeridium pauciverrucosum* *Goniosphaeridium* sp. *Multiplicisphaeridium* sp. *Leiofusa* sp. Chitinozoa Scolecodonts
Concentration:	3422 grains/g
TAI:	2.90 on amorphous material; 2.02(.52) on acritarchs; 2.83 on zooclasts; orange - 2.26(.52) fluorescence is dominant
Maturity:	Mature (see note)
Notes:	Multimodal distribution in TAI and Fluorescence. Middle range from mature fossils (TAI - 2.1) may be correct. Rare droplets of bitumen on slide.

2750 m

Material:	Abundant acritarchs and zooclasts; rare pyrite
Identifiable taxa:	Sphaeromorphs Acanthomorphs *Veryhachium* sp. *Veryhachium oklahomense* *Micrhystridium* sp. *Baltisphaeridium* sp. *Ordovicidium* sp. *Goniosphaeridium* sp. *Goniosphaeridium uncinatum?* *Multiplicisphaeridium* sp. *Peteinosphaeridium* sp. *Leovalia* sp. unidentified genus (illustrated)
Concentration:	1263 grains/g
TAI:	2.90 on amorphous material; 2.02(.52) on acritarchs; 2.83 on zooclasts; orange - 2.26(.52) fluorescence is dominant
Maturity:	Mature (see note)
Notes:	Multimodal distribution in TAI and Fluorescence. Middle range from mature fossils (TAI - 2.1) may be correct. Rare droplets of bitumen on slide.

2795 m

Material:	Abundant acritarchs and zooclasts; rare pyrite
Identifiable taxa:	Sphaeromorphs Acanthomorphs *Veryhachium* sp. *Veryhachium* sp. A. of Jacobson and Achab *Micrhystridium* sp. *Baltisphaeridium* sp. *Ordovicidium fissum* *Goniosphaeridium* sp. *Multiplicisphaeridium* sp. Scolecodont
Concentration:	1429 grains/g
TAI:	1.91(.40) on acritarchs; 2.63 on zooclasts; yellow-orange - 2.03(.43) fluorescence is dominant
Maturity:	Immature - borderline mature (see note)
Notes:	Bimodal distribution in TAI and Fluorescence. Upper range from mature fossils (TAI - 2.2) may be correct.

2850 m

Material:	Abundant acritarchs and zooclasts; common pyrite
Identifiable taxa:	Sphaeromorphs Acanthomorphs *Veryhachium* sp *Veryhachium trispinosum* *Micrhystridium* sp. *Baltisphaeridium* sp. *Ordovicidium fissum* *Leiovalia* sp. *Multiplicisphaeridium* sp. Scolecodont Graptolite
Concentration:	1467 grains/g
TAI:	1.74(.37) on acritarchs; 2.52 on zooclasts; bright yellow - 1.80(.53) fluorescence is dominant
Maturity:	Immature - borderline mature (see note)
Notes:	Bimodal distribution in TAI and Fluorescence. Upper range from mature fossils (TAI - 2.2) may be correct.

2895 m

Material:	Abundant acritarchs and zooclasts; common pyrite
Identifiable taxa:	Sphaeromorphs Acanthomorphs *Veryhachium* sp *Veryhachium trispinosum* *Micrhystridium* sp. *Baltisphaeridium* sp. *Leiovalia* sp. *Navifusa* sp. *Multiplicisphaeridium* sp. Chitinozoa
Concentration:	1523 grains/g
TAI:	2.95 on amorphous material; 1.98(.29) on acritarchs; 2.67 on zooclasts; bright yellow - 1.81(.29) fluorescence is dominant
Maturity:	Immature - borderline mature (see note)
Notes:	Bimodal distribution in TAI and Fluorescence. Upper range from mature fossils (TAI - 2.1) may be correct.

2945 m

Material:	Amorphous granules and masses; abundant acritarchs and zooclasts; common pyrite
Identifiable taxa:	Sphaeromorphs Acanthomorphs *Veryhachium* sp *Veryhachium hamii* *Veryhachium trispinosum* *Veryhachium (Villosacapsula) setosapellicula* *Micrhystridium* sp. *Baltisphaeridium* sp. *Leiovalia* sp. *Ordovicidium gracile* *Lophosphaeridium* sp. *Multiplicisphaeridium* sp. Scolecodonts Graptolite
Concentration:	674 grains/g
Chronostratigraphy:	Caradoc - Ashgill
Lithostratigraphy:	Winterhouse Formation
TAI:	2.95 on amorphous material; 2.06(.43) on acritarchs; 2.59 on zooclasts; orange - 2.48(.62) fluorescence is dominant
Maturity:	Mature (see note)
Notes:	Multimodal distribution in TAI and Fluorescence. Middle range from mature fossils (TAI - 2.2) may be correct. *Veryhachium (Villosacapsula) setosapellicula* is common in the middle and upper Trenton and basal Utica of Quebec; it is not present in the Black River.

2990 m

Material: Amorphous granules and masses: abundant acritarchs and zooclasts: common pyrite

Identifiable taxa:
Sphaeromorphs
Acanthomorphs
Veryhachium sp
Veryhachium hamii
Veryhachium oklahomense
Veryhachium trispinosum
Veryhachium (Villosacapsula) setosapellicula
Micrhystridium sp.
Baltisphaeridium sp.
Excultibrachium sp.
Comasphaeridium sp.
Lophosphaeridium sp.
Goniosphaeridium gracile
Leiovalia sp.
Ordovicidium sp.
Multiplicisphaeridium sp.
Multiplicisphaeridium wrightii
?Axisphaeridium tomentum

Concentration: 1237 grains/g

TAI: 2.13(.48) on acritarchs: 2.71 on zooclasts: orange - 2.29(.70) fluorescence is dominant

Maturity: Mature (see note)

Notes: Multimodal distribution in TAI and Fluorescence. Middle range from mature fossils (TAI - 2.2) may be correct. Both reworking and caving are suspected.

3035 m

Material: Rare amorphous masses: abundant acritarchs and zooclasts; rare pyrite

Identifiable taxa:
Sphaeromorphs
Acanthomorphs
Veryhachium sp
Veryhachium trispinosum
Micrhystridium sp.
Baltisphaeridium sp.
Goniosphaeridium sp.
Ordovicidium sp.
Multiplicisphaeridium sp.
Multiplicisphaeridium cladum

Concentration: 1234 grains/g

TAI: 2.90 on amorphous material: 2.43(.55) on acritarchs; 2.78 on zooclasts; orange - 2.39(.60) fluorescence is dominant

Maturity: Mature (see note)

Notes: Multimodal distribution in TAI and Fluorescence. Middle range from mature fossils (TAI - 2.2) may be correct. Both reworking and caving are suspected.

3075 m

Material:	Abundant acritarchs and zooclasts; rare pyrite
Identifiable taxa:	Sphaeromorphs Acanthomorphs *Veryhachium* sp *Veryhachium (Villosacapsula) setosapellicula* *Micrhystridium* sp. *Baltisphaeridium* sp. *Baltisphaeridium annelieae* *Goniosphaeridium* sp. *Peteinosphaeridium* sp. *Ordovicidium* sp. *Multiplicisphaeridium* sp. *Lophosphaeridium* sp. *Leiovalia* sp. Scolecodont Chitinozoa
Concentration:	1694 grains/g
Chronostratigraphy:	Caradoc
Lithostratigraphy:	Winterhouse Formation
TAI:	2.18(.35) on acritarchs; 2.65 on zooclasts; red - 2.50(.62) fluorescence is dominant
Maturity:	Mature (see note)
Notes:	Relatively clean distribution pattern in TAI and Fluorescence. A small number of fossils appear reworked. *Baltisphaeridium annelieae* has a Llandeilo through Caradoc range. Its range overlaps with *Veryhachium (Villosacapsula) setosapellicula* (Ashgill - Caradoc) confirming a Caradoc age for this sample.

Lourdes Formation

3115 m

Material:	Amorphous granules; abundant acritarchs and zooclasts; common pyrite
Identifiable taxa:	Sphaeromorphs Acanthomorphs *Veryhachium* sp *Veryhachium (Villosacapsula) setosapellicula* *Micrhystridium* sp. *Baltisphaeridium* sp. *Navifusa* sp. *Goniosphaeridium* sp. *Ordovicidium* sp. *Multiplicisphaeridium* sp. Scolecodont Chitinozoa
Concentration:	1306 grains/g
TAI:	2.80 on amorphous material; 2.30(.34) on acritarchs; 2.71 on zooclasts; orange - 2.28(.69) fluorescence is dominant
Maturity:	Mature (see note)
Notes:	Peak skewed; may be some reworking

3155 m

Material:	Amorphous granules; abundant acritarchs and zooclasts; common pyrite
Identifiable taxa:	Sphaeromorphs Acanthomorphs *Veryhachium* sp *Micrhystridium* sp. *Baltisphaeridium* sp. *Navifusa* sp. *Goniosphaeridium* sp. *Ordovicidium* sp. *Multiplicisphaeridium* sp.
Concentration:	3614 grains/g
TAI:	2.85 on amorphous material; 1.97(.39) on acritarchs; 2.75 on zooclasts; orange-yellow - 2.09(.57) fluorescence is dominant
Maturity:	Immature - borderline mature (see note)
Notes:	Bimodal peak suggests cavings are contaminating the sample; secondary peak (TAI 2.2) may be correct. Small quantities of bitumen observed on slide.

3185 m

Material:	Amorphous granules: abundant acritarchs and zooclasts: common pyrite
Identifiable taxa:	Sphaeromorphs Acanthomorphs *Veryhachium* sp *Micrhystridium* sp. *Baltisphaeridium* sp. *Baltisphaeridium accinctum* *Navifusa* sp. *Leiofusa* sp. *Leovalia* sp. *Goniosphaeridium* sp. *Multiplicisphaeridium* sp. Chitinozoa
Concentration:	3165 grains/g
TAI:	2.80 on amorphous material: 2.20(.35) on acritarchs; 2.75 on zooclasts; orange-yellow - 2.15(.70) fluorescence is dominant
Maturity:	Mature (see note)
Notes:	Multimodal peak suggests cavings and reworked fossils are contaminating the sample; secondary peak (TAI 2.2) may be correct. Rare bitumen droplets observed on slide.

3210 m

Material:	Amorphous granules: abundant acritarchs and zooclasts: common pyrite
Identifiable taxa:	Sphaeromorphs Acanthomorphs *Veryhachium* sp *Micrhystridium* sp. *Baltisphaeridium* sp. *Baltisphaeridium annelieae* *Navifusa* sp. *Goniosphaeridium* sp. *Multiplicisphaeridium* sp. Scolecodonts Chitinozoa
Concentration:	3695 grains/g
TAI:	2.70 on amorphous material: 2.04(.31) on acritarchs; 2.69 on zooclasts; orange - 2.41(.58) fluorescence is dominant
Maturity:	Mature (see note)
Notes:	Bimodal peak suggests cavings are contaminating the sample; secondary peak (TAI 2.0) may be correct. Rare bitumen droplets observed on slide.

Goose Tickle Group

3260 m

Material:	Amorphous granules: abundant acritarchs and common zooclasts; common pyrite
Identifiable taxa:	Sphaeromorphs - including large, dark spheres Acanthomorphs *Veryhachium* sp. *Veryhachium (Villosacapsula) setosapellicula* *Micrhystridium* sp. *Ordovicidium* sp. *Orthosphaeridium* sp. *Lophosphaeridium* sp. *Multiplicisphaeridium* sp. Scolecodonts
Concentration:	3886 grains/g
TAI:	2.95 on amorphous material; 2.37(.39) on acritarchs; 2.82 on zooclasts; faint red - 2.78(.61) fluorescence is dominant
Maturity:	Mature (see note)
Notes:	Bimodal peak suggests cavings are contaminating the sample; secondary peak (TAI 2.6) may be correct.

3295 m

Material:	Amorphous granules: abundant acritarchs and zooclasts; common pyrite
Identifiable taxa:	Sphaeromorphs - including large, dark spheres Acanthomorphs *Veryhachium* sp *Ordovicidium* sp. *Goniosphaeridium* sp. *Peteinosphaeridium trifurcatum* *Eupoikilofusa* sp. *Navifusa* sp. Scolecodont Chitinozoa
Concentration:	4279 grains/g
Chronostratigraphy:	Middle or Upper Ordovician
TAI:	2.90 on amorphous material; 2.58(.37) on acritarchs; 2.70 on zooclasts; faint red - 2.93(.55) fluorescence is dominant
Maturity:	Mature (see note)
Notes:	Bimodal peak suggests reworked fossils are contaminating the sample; secondary peak (TAI 2.6) may be correct.

3325 m

Material:	Amorphous granules some masses: abundant acritarchs and zooclasts; common pyrite
Identifiable taxa:	Sphaeromorphs - including large, dark spheres Acanthomorphs *Veryhachium* sp. *Veryhachium lairdii* *Micrhystridium* sp. *Multiplicisphaeridium* sp. *Ordovicidium* sp. *Peteinosphaeridium trifurcatum* *Peteinosphaeridium* var. *breviradiatum* *Goniosphaeridium* sp. *Comasphaeridium languiferum* Chitinozoa
Concentration:	10264 grains/g
TAI:	2.90 on amorphous material; 2.45(.41) on acritarchs; 2.80 on zooclasts; faint red - 2.88(.58) fluorescence is dominant
Maturity:	Mature (see note)
Notes:	Multimodal peak suggests cavings and reworked fossils are contaminating the sample; secondary peak (TAI 2.6) may be correct. Small bitumen droplets observed on slide.

3385 m

Material:	Amorphous granules some masses: abundant acritarchs and zooclasts; common pyrite
Identifiable taxa:	Sphaeromorphs - including large, dark spheres Acanthomorphs *Veryhachium* sp. *Micrhystridium* sp. *Multiplicisphaeridium* sp. *Navifusa* sp. Scolecodonts Chitinozoa
Concentration:	2742 grains/g
TAI:	2.95 on amorphous material; 2.70(.34) on acritarchs; 2.78 on zooclasts; faint red - 2.96(.51) fluorescence is dominant
Maturity:	Mature (see note)
Notes:	Multimodal peak suggests cavings. Maturation index is skewed towards overmature; secondary peak (TAI 2.6) may be correct. Small bitumen droplets observed on slide.

Table Cove Formation?

3440 m

Material:	Amorphous granules; abundant acritarchs and zooclasts; common pyrite
Identifiable taxa:	Sphaeromorphs - including large, dark spheres Acanthomorphs *Veryhachium* sp. *Micrhystridium* sp. *Navifusa* sp. Chitinozoa
Concentration:	4581 grains/g
TAI:	2.90 on amorphous material; 2.85(.25) on acritarchs; 2.80 on zooclasts; faint brown - 3.06(.20) fluorescence is dominant
Maturity:	Mature - borderline overmature
Notes:	

Aguathuna Formation

3485 m

Material:	Amorphous granules; abundant acritarchs and rare zooclasts; rare pyrite
Identifiable taxa:	Sphaeromorphs - including large, dark spheres *Navifusa* sp.
Concentration:	4939 grains/g
TAI:	2.90 on amorphous material; 2.94(.06) on acritarchs; 2.75 on zooclasts; black - 3.20 fluorescence is dominant
Maturity:	Mature - borderline overmature
Notes:	Probably caved from Goose Tickle Gp.

3535 m

Material:	Amorphous granules; abundant acritarchs and rare zooclasts
Identifiable taxa:	Sphaeromorphs - including large, dark spheres *Polygonium* sp. Chitinozoans
Concentration:	5512 grains/g
TAI:	2.90 on amorphous material; 2.86(.15) on acritarchs; 2.69 on zooclasts; black - 4.00 fluorescence.
Maturity:	Mature - borderline overmature
Notes:	Probably caved from Goose Tickle Gp.

3555 m

Material:	Amorphous granules; abundant acritarchs and rare zooclasts
Identifiable taxa:	Sphaeromorphs - including large, dark spheres *Veryhachium* sp. *Acrum?* sp.
Concentration:	2125 grains/g
TAI:	2.90 on amorphous material; 2.93(.10) on acritarchs; 2.70 on zooclasts; black - 4.00 fluorescence.
Maturity:	Mature - borderline overmature
Notes:	Probably caved from Goose Tickle Gp.

Catoche Formation

3600 m

Material:	Amorphous granules; abundant acritarchs and common zooclasts; common pyrite
Identifiable taxa:	Sphaeromorphs - including large, dark spheres Acanthomorphs *Veryhachium* sp.
Concentration:	6100 grains/g
TAI:	3.10 on amorphous material; 2.82(.18) on acritarchs; 2.68 on zooclasts; black - 3.20 fluorescence is dominant.
Maturity:	Mature - borderline overmature
Notes:	Probably caved from Goose Tickle Gp.

3660 m

Material:	Amorphous granules; abundant acritarchs and common zooclasts; common pyrite
Identifiable taxa:	Sphaeromorphs - including large, dark spheres *Veryhachium* sp.
Concentration:	2176 grains/g
TAI:	2.90 on amorphous material; 2.93(.05) on acritarchs; 2.75 on zooclasts; black - 4.00 fluorescence.
Maturity:	Mature - borderline overmature
Notes:	Probably caved from Goose Tickle Gp.

3705 m

Material:	Amorphous granules; abundant acritarchs and common zooclasts; common pyrite
Identifiable taxa:	Sphaeromorphs - including large, granular spheres and large, dark spheres *Micrhystridium* sp. *Multiplicisphaeridium* sp.
Concentration:	2750 grains/g
TAI:	2.95 on amorphous material; 2.93(.05) on acritarchs; 2.77 on zooclasts; black - 4.00 fluorescence.
Maturity:	Mature - borderline overmature
Notes:	Granular spheres are similar to fossils reported from the top of the well.

Boat Harbour Formation

3760 m

Material:	Amorphous granules; abundant acritarchs and common zooclasts; rare pyrite
Identifiable taxa:	Sphaeromorphs - including large, dark spheres Chitinozoa
Concentration:	2590 grains/g
TAI:	3.00 on amorphous material; 2.96(.08) on acritarchs; 2.82 on zooclasts; black - 4.00 fluorescence.
Maturity:	Mature - borderline overmature
Notes:	

Berry Head Formation

4065 m

Material:	Amorphous granules; common acritarchs and rare zooclasts; abundant pyrite
Identifiable taxa:	Sphaeromorphs - including large, dark spheres Acanthomorphs *Baltisphaeridium* sp. Chitinozoa
Concentration:	385 grains/g
TAI:	2.95 on amorphous material; 2.95(.11) on acritarchs; 2.83 on zooclasts; black - 3.20 fluorescence is dominant.
Maturity:	Mature - borderline overmature
Notes:	Lots of oil droplets on slide - contamination from drilling.

4105 m

Material:	Rare amorphous granules: common acritarchs and rare zooclasts; abundant pyrite
Identifiable taxa:	Sphaeromorphs - including large, dark spheres Chitinozoa
Concentration:	150 grains/g
TAI:	2.90 on amorphous material; 2.98(.03) on acritarchs; 2.75 on zooclasts; black - 4.00 fluorescence.
Maturity:	Mature - borderline overmature
Notes:	Some oil droplets on slide - contamination from drilling.

Petit Jardin Formation

4140 m

Material:	Amorphous granules; common acritarchs and rare zooclasts; common pyrite
Identifiable taxa:	Sphaeromorphs - rare, large, dark spheres finely reticulate spheres
Concentration:	361 grains/g
TAI:	3.00 on amorphous material; 3.00(.14) on acritarchs; 2.73 on zooclasts; black - 4.00 fluorescence.
Maturity:	Overmature
Notes:	

4170 m

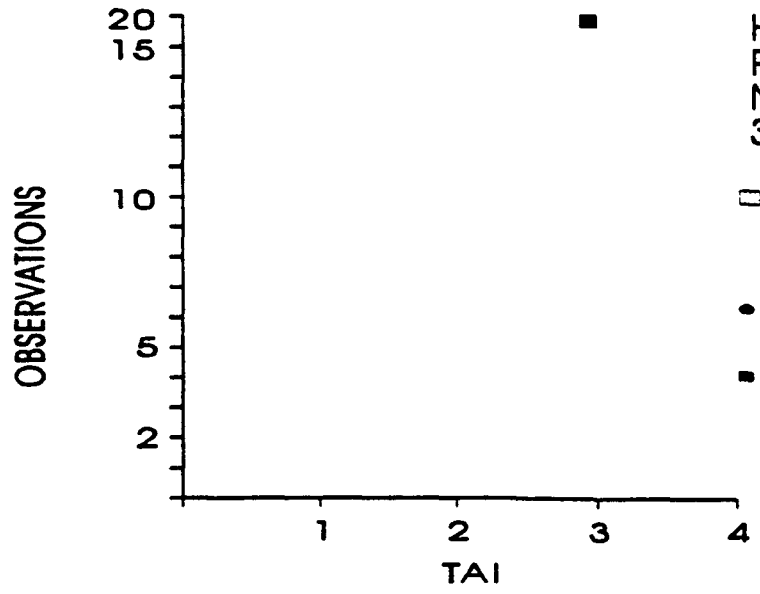
Material:	Amorphous granules; common acritarchs and zooclasts; common pyrite
Identifiable taxa:	Sphaeromorphs - rare, large, dark spheres Acanthomorphs Scolecodont large granular fusiform and spherical sack-like structures
Concentration:	166 grains/g
TAI:	3.10 on amorphous material; 2.97(.11) on acritarchs; 3.05 on zooclasts; black - 4.00 fluorescence.
Maturity:	Mature - borderline overmature
Notes:	Scolecodont probably caved.

4205 m

Material:	Amorphous granules; common acritarchs and zooclasts; common pyrite
Identifiable taxa:	Sphaeromorphs - rare, large, dark spheres large granular fusiform and spherical sack-like structures
Concentration:	601 grains/g
TAI:	3.10 on amorphous material; 2.93(.05) on acritarchs; 2.86 on zooclasts; black - 4.00 fluorescence.
Maturity:	Mature - borderline overmature
Notes:	Granular spheres may be caved.

4240 m

Material:	Amorphous granules; common acritarchs and zooclasts; common pyrite
Identifiable taxa:	Sphaeromorphs - rare, large, dark spheres large granular fusiform and spherical sack-like structures Chitinozoa
Concentration:	318 grains/g
TAI:	3.10 on amorphous material; 2.96(.12) on acritarchs; 2.97 on zooclasts; black - 4.00 fluorescence.
Maturity:	Mature - borderline overmature
Notes:	

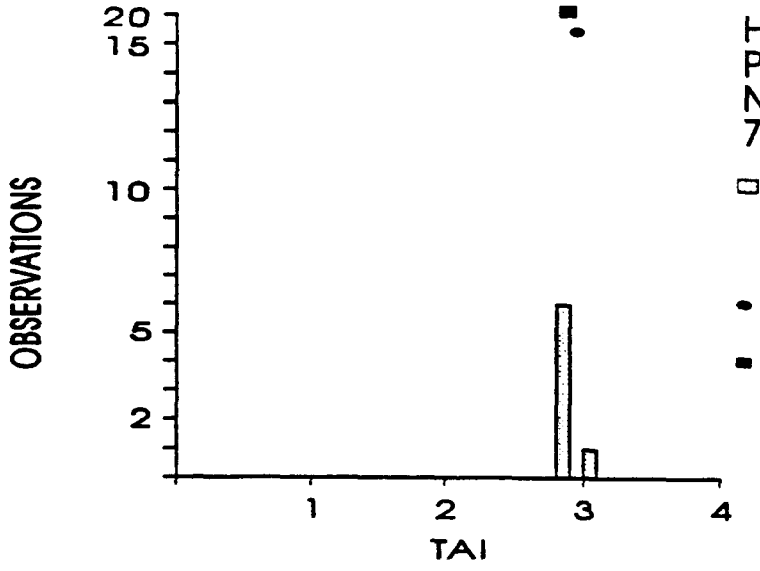


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
35m

Palynomorphs
TAI =
Flu =
Sum =

Zooclasts
Not observed

Amorphous matter
TAI = 2.95
Flu = 3.0 faint brown

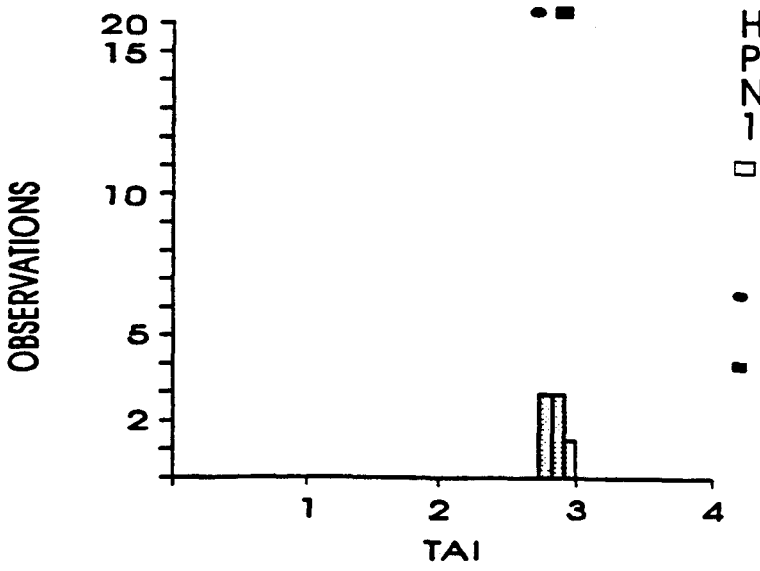


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
75m

Palynomorphs
TAI = 2.91(0.04)
Flu = 4.0 - black
Sum = 7

Zooclasts
TAI = 2.93

Amorphous matter
TAI = 2.90
Flu = 4.0 - black

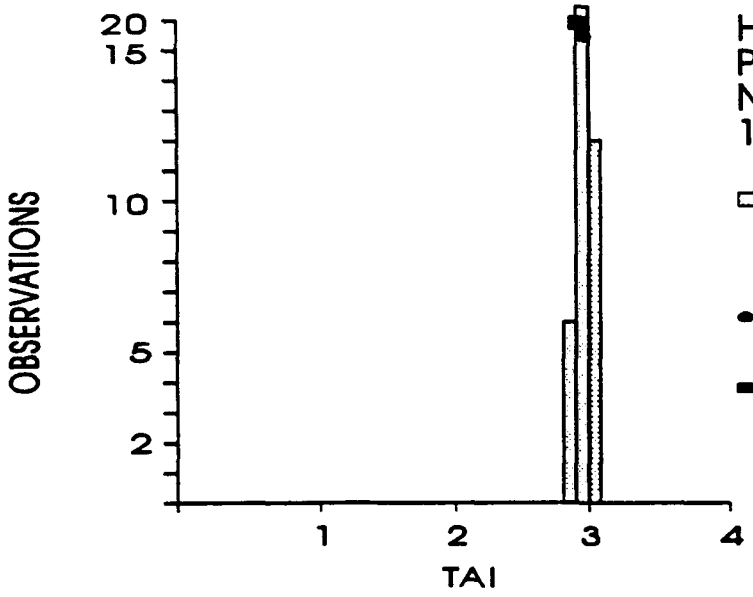


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
115m

Palynomorphs
TAI = 2.89(0.04)
Flu = 4.0 - black
Sum = 7

Zooclasts
TAI = 2.86

Amorphous matter
TAI = 2.90
Flu = 4.0 - black

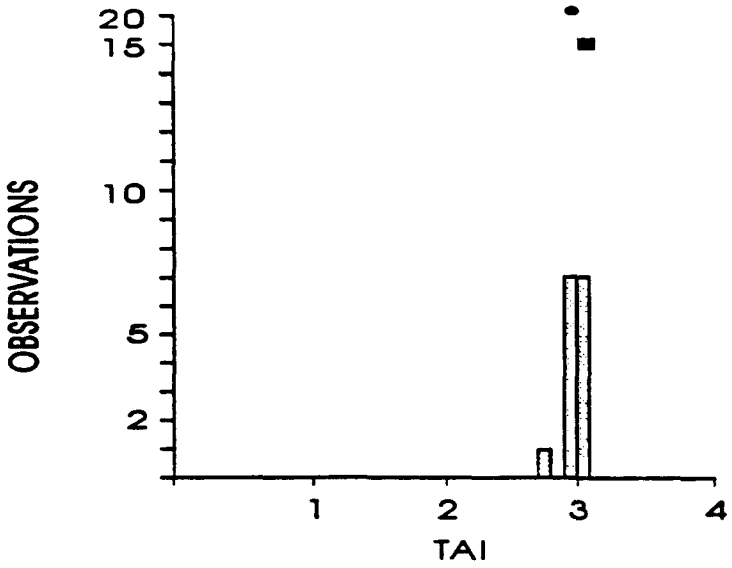


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
135m

Palynomorphs
TAI = 2.92(0.05)
Flu = 4.0 - black
Sum = 40

Zooclasts
TAI = 2.93

Amorphous matter
TAI = 2.90(0.05)
Flu = 2.95 - faint red

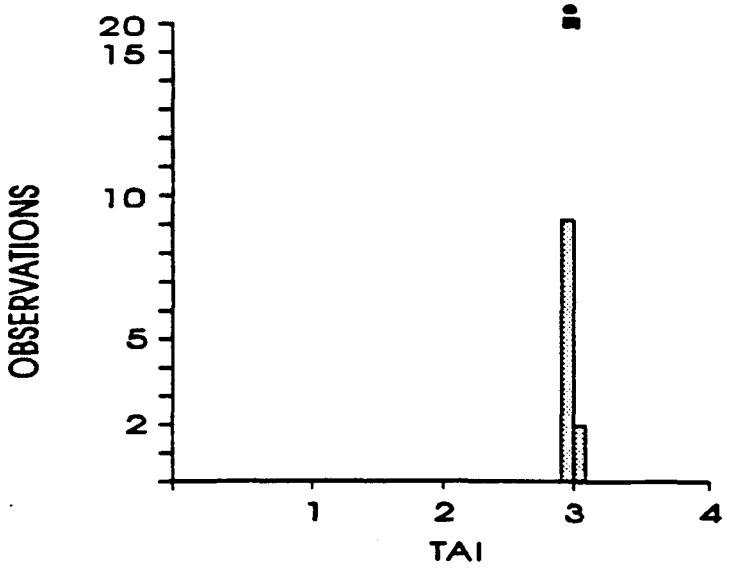


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
160m

Palynomorphs
TAI = 2.84(0.07)
Flu = 4.0 - black
Sum = 15

Zooclasts
TAI = 2.86

Amorphous matter
TAI = 2.95
Flu = 4.0 - black

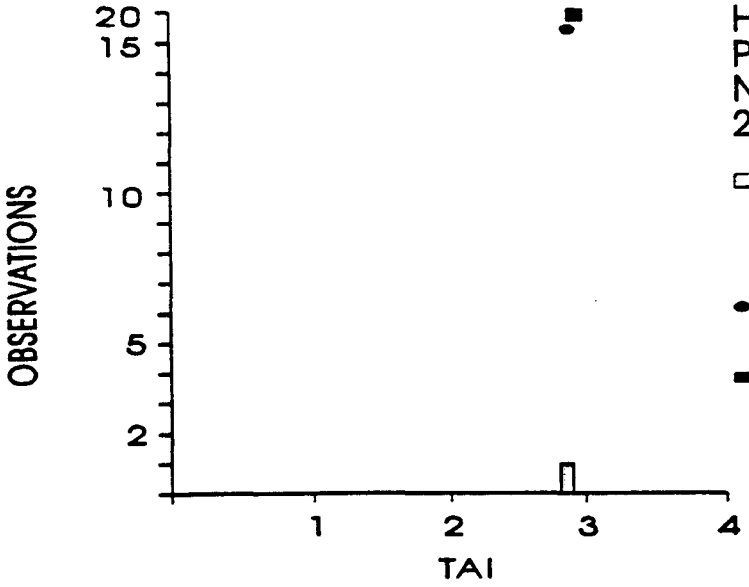


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
175m

Palynomorphs
TAI = 2.92(0.03)
Flu = 4.0 - black
Sum = 11

Zooclasts
TAI = 2.91

Amorphous matter
TAI = 2.90
Flu = 2.95 - faint red

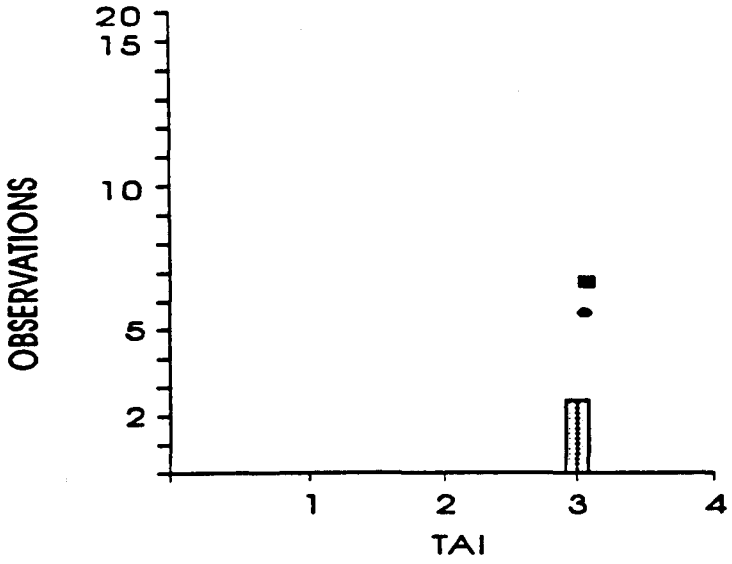


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
205m

Palynomorphs
TAI = 2.80
Flu = 4.0 - black
Sum = 1

Zooclasts
TAI = 2.88

Amorphous matter
TAI = 2.90(0.07)
Flu = 2.95 - faint red

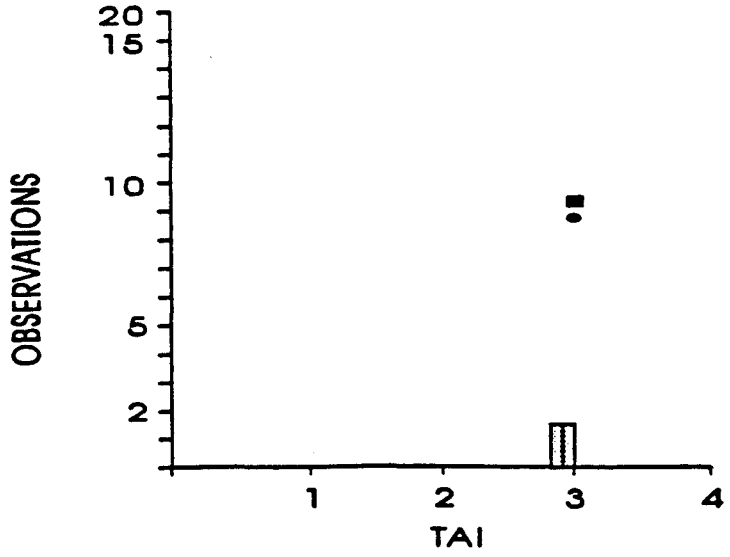


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
230m

Palynomorphs
TAI = 2.93(0.03)
Flu = 4.0 - black
Sum = 5

Zooclasts
TAI = 2.91

Amorphous matter
TAI = 2.93(0.03)
Flu = 4.0 - black

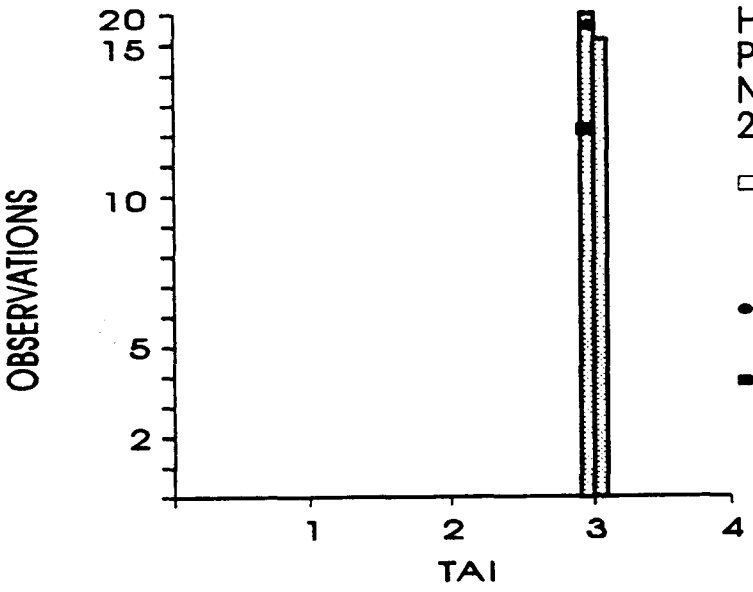


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
240m

Palynomorphs
TAI = 2.85
Flu = 4.0 - black
Sum = 3

Zooclasts
TAI = 2.83

Amorphous matter
TAI = 2.95
Flu = 4.0 - black

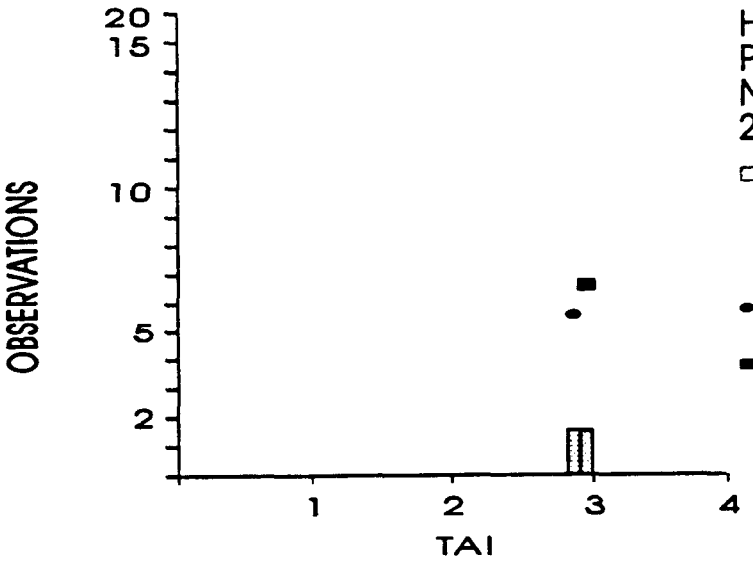


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
265m

□Palynomorphs
TAI = 2.94(0.03)
Flu = 4.0 - black
Sum = 36

● Zooclasts
TAI = 2.94

■ Amorphous matter
TAI = 2.95
Flu = 4.0 - black

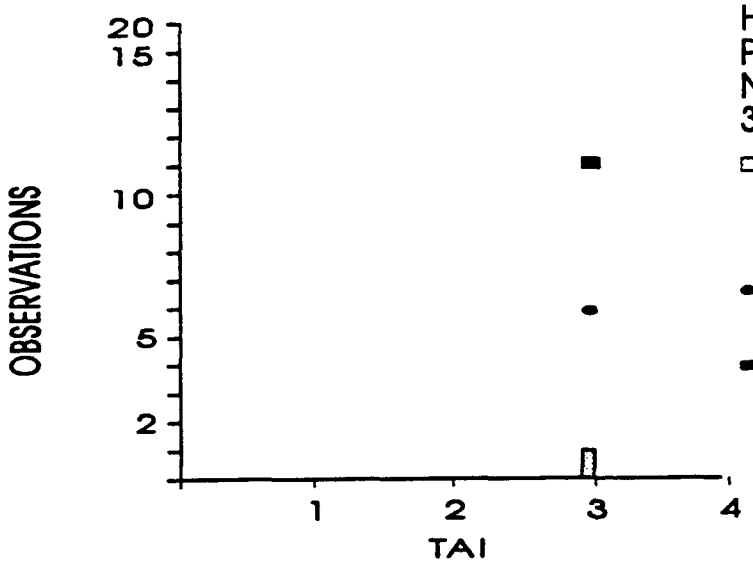


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
285m

□Palynomorphs
TAI = 2.90(0.05)
Flu = 4.0 - black
Sum = 3

● Zooclasts
TAI = 2.85

■ Amorphous matter
TAI = 2.93(0.03)
Flu = 4.0 - black

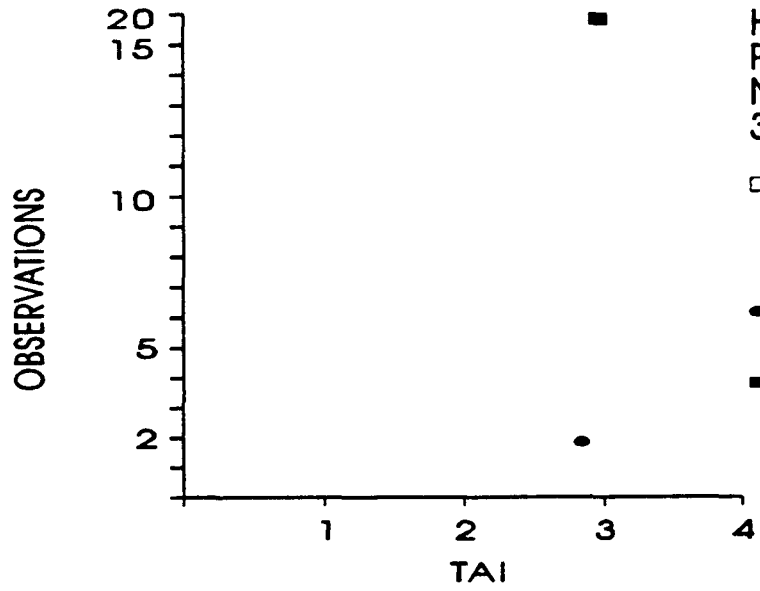


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
320m

□Palynomorphs
TAI = 2.90
Flu = 4.0 - black
Sum = 1

● Zooclasts
TAI = 2.90

■ Amorphous matter
TAI = 2.95
Flu = 4.0 - black

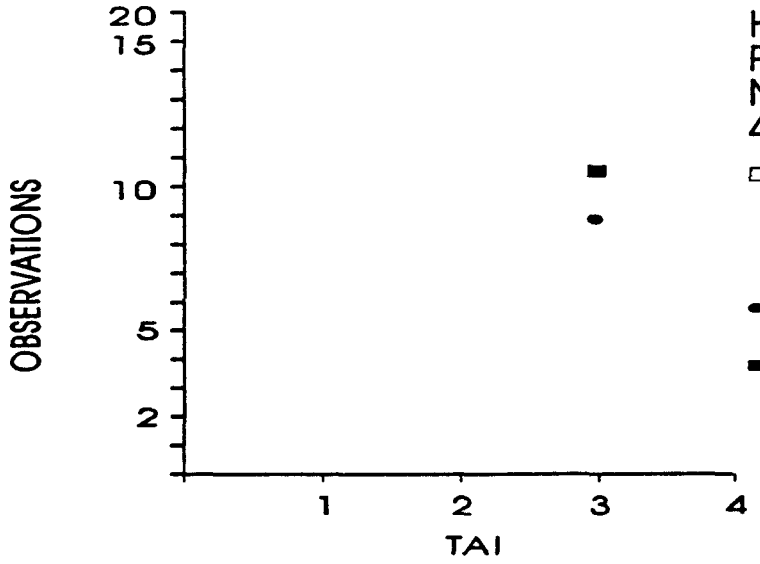


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
360m

□Palynomorphs
TAI =
Flu =
Sum =

● Zooclasts
TAI = 2.87

■ Amorphous matter
TAI = 2.93
Flu = 4.0 - black

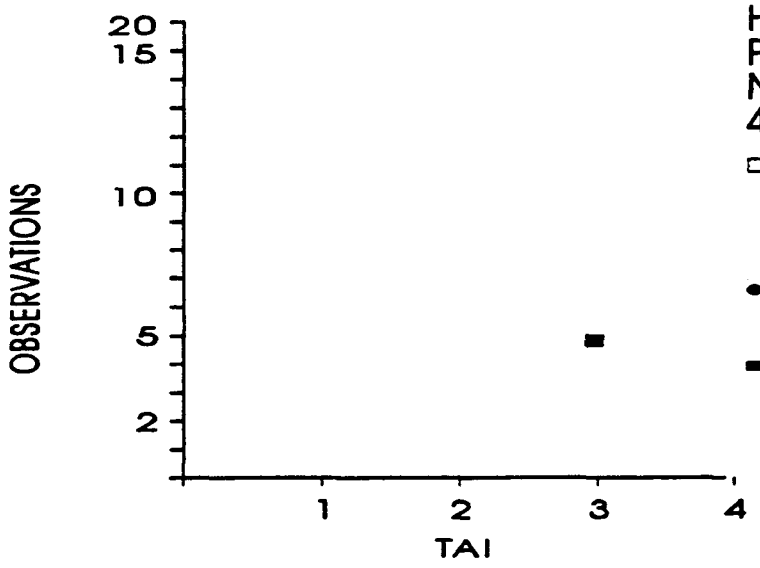


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
400m

□Palynomorphs
TAI =
Flu =
Sum =

● Zooclasts
TAI = 2.92

■ Amorphous matter
TAI = 2.95(0.02)
Flu = 4.0 - black

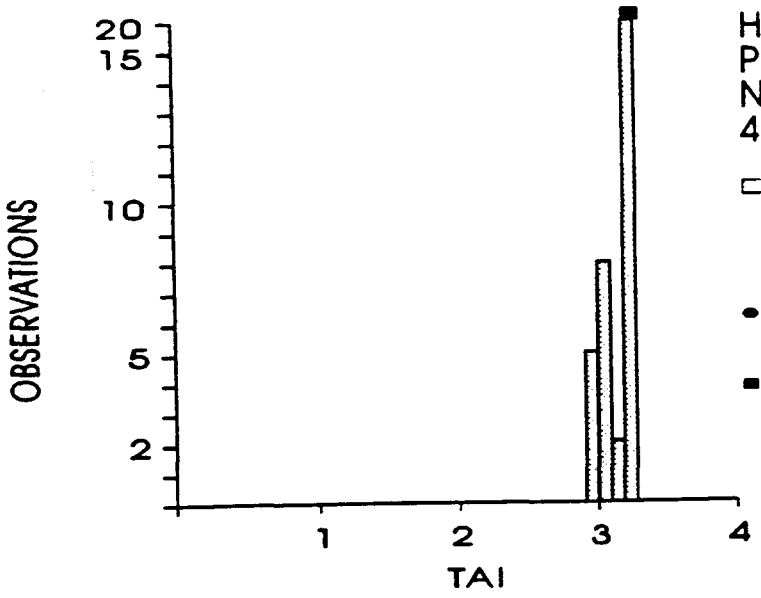


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
440m

□Palynomorphs
TAI =
Flu =
Sum =

● Zooclasts
TAI =

■ Amorphous matter
TAI = 2.94(0.02)
Flu = 4.0 - black

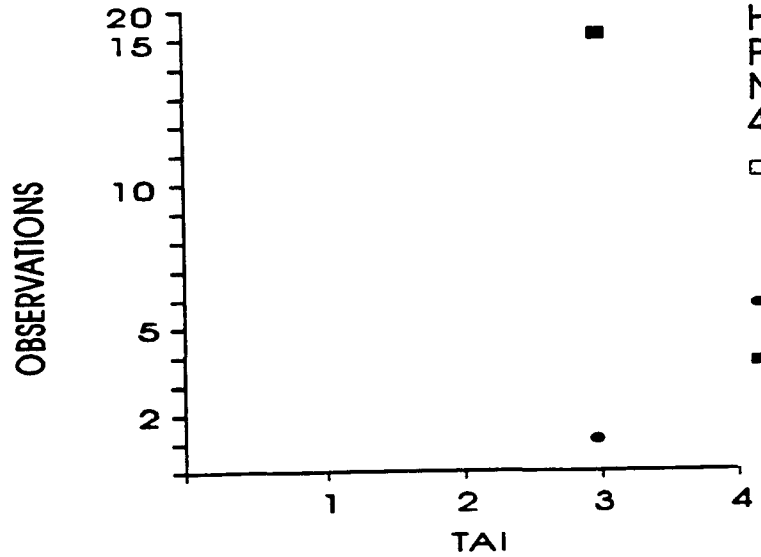


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
465m

□Palynomorphs
TAI = 3.14(0.10)
Flu = 4.0 - black
Sum = 29

● Zooclasts
TAI =

■ Amorphous matter
TAI = 3.14(0.22)
Flu = 4.0 - black

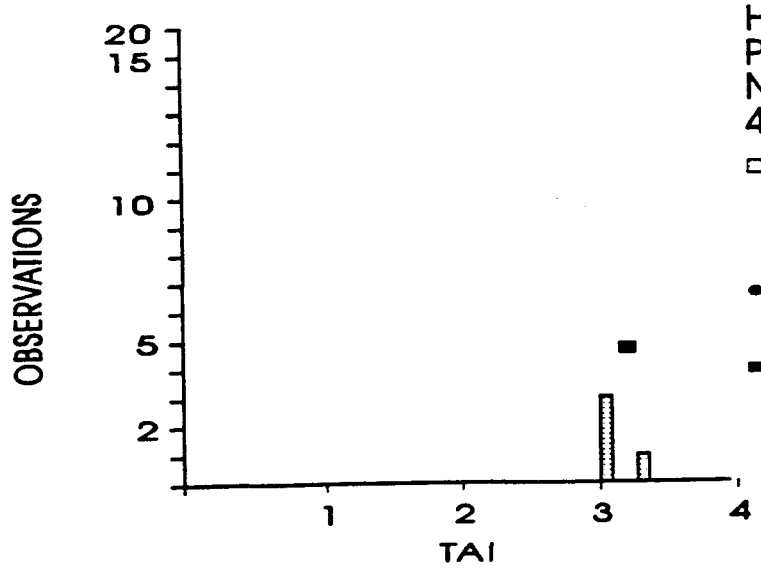


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
485m

□Palynomorphs
TAI =
Flu =
Sum =

● Zooclasts
TAI = 2.90

■ Amorphous matter
TAI = 2.97(0.03)
Flu = 4.0 - black

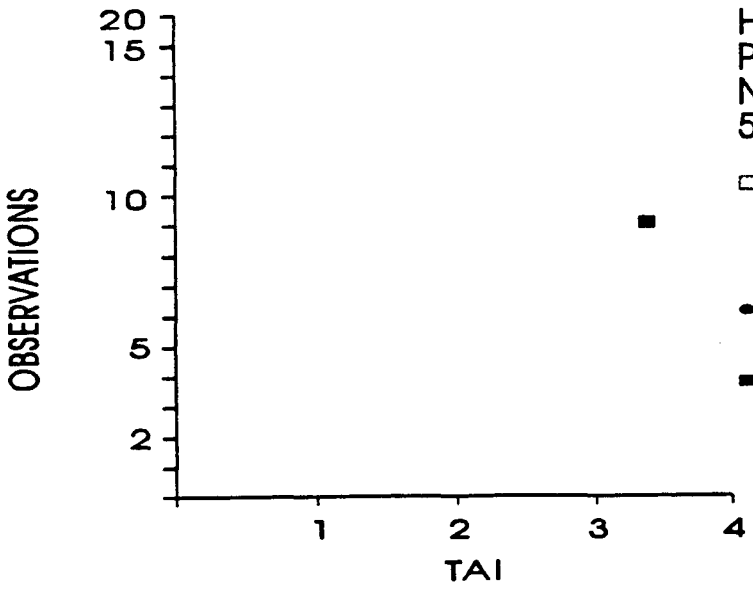


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
490m

□Palynomorphs
TAI = 3.15(0.19)
Flu = 4.0 - black
Sum = 4

● Zooclasts
TAI =

■ Amorphous matter
TAI = 3.23
Flu = 4.0 - black

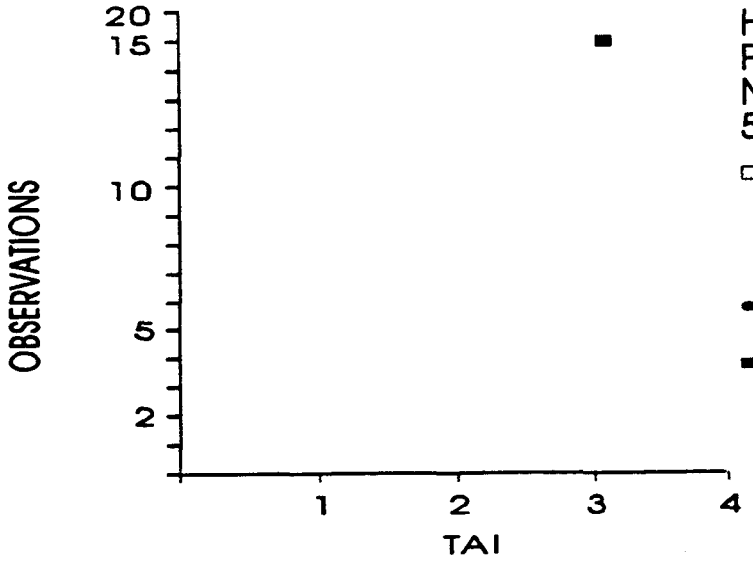


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
525m

□Palynomorphs
TAI =
Flu =
Sum =

● Zooclasts
TAI =

■ Amorphous matter
TAI =3.38
Flu = 4.0 - black

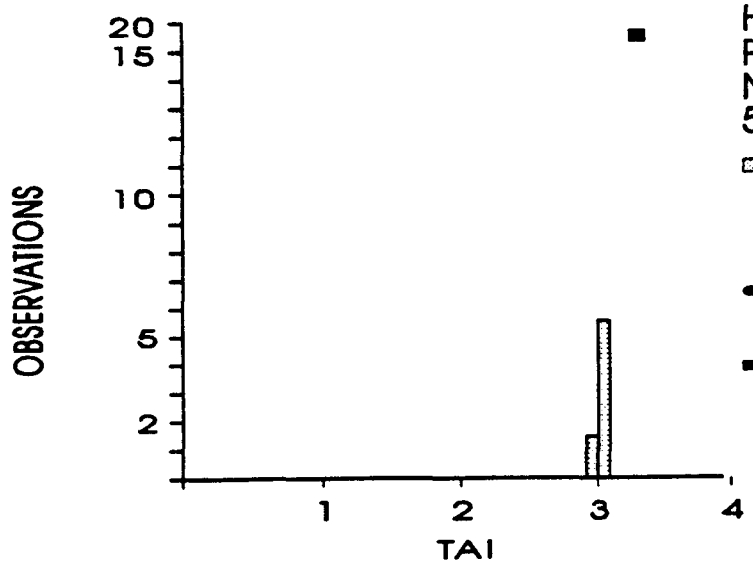


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
555m

□Palynomorphs
TAI =
Flu =
Sum =

● Zooclasts
TAI =

■ Amorphous matter
TAI = 3.05(0.18)
Flu = 4.0 - black

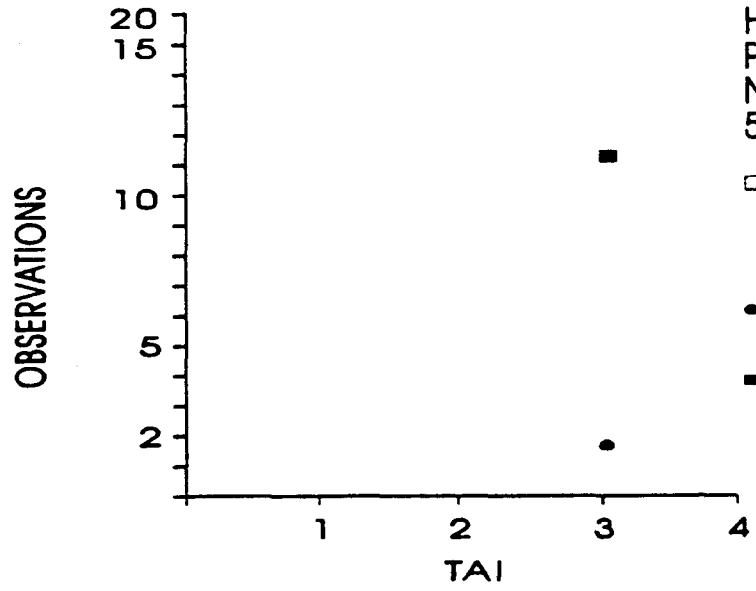


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
585m

□Palynomorphs
TAI = 2.98(0.03)
Flu = 4.0 - black
Sum = 7

● Zooclasts
TAI =

■ Amorphous matter
TAI = 3.26
Flu = 4.0 - black

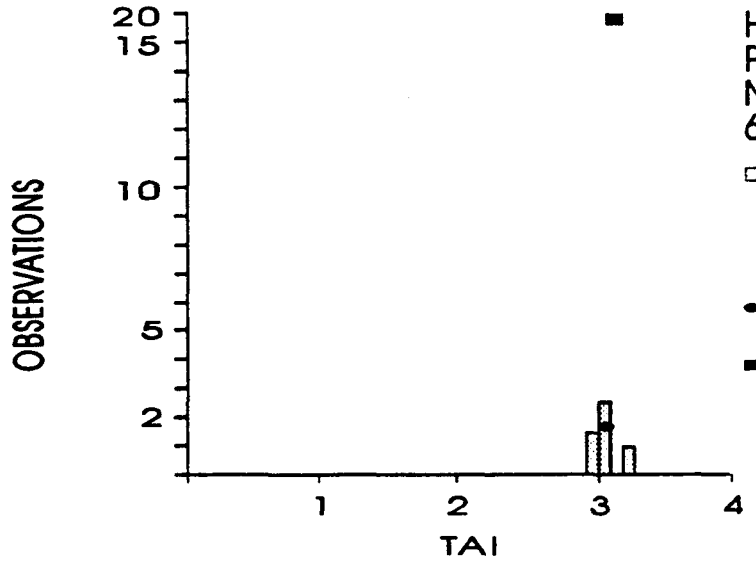


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
595m

□Palynomorphs
TAI =
Flu =
Sum =

●Zooclasts
TAI = 3.10

■Amorphous matter
TAI = 3.07(0.13)
Flu = 4.0 - black

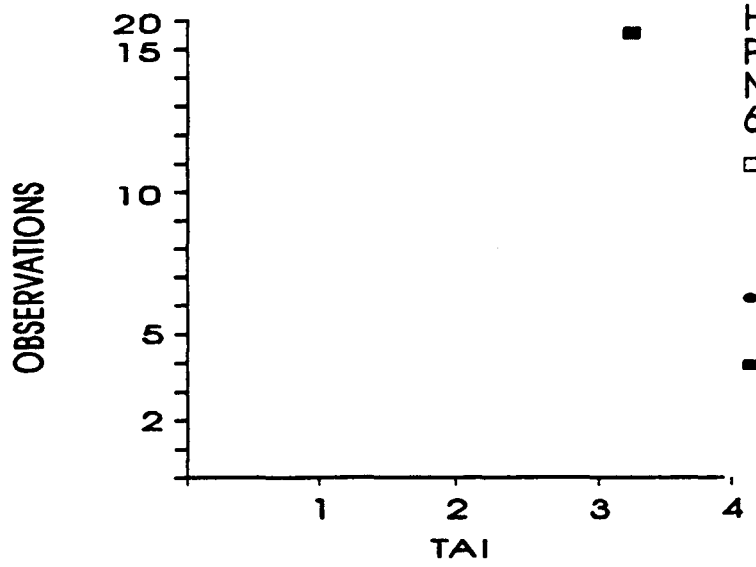


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
640m

□Palynomorphs
TAI = 3.01(0.11)
Flu = 4.0 - black
Sum = 5

●Zooclasts
TAI = 3.00

■Amorphous matter
TAI = 3.12(0.17)
Flu = 4.0 - black

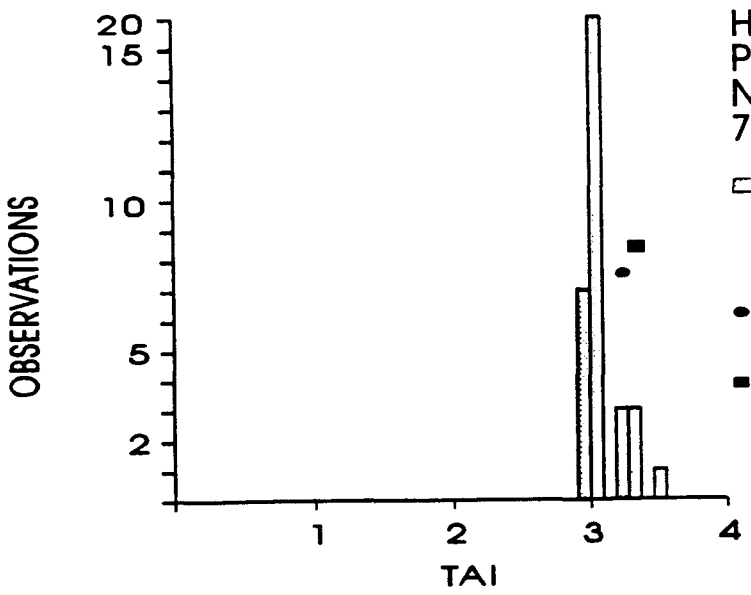


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
680m

□Palynomorphs
TAI =
Flu =
Sum =

●Zooclasts
TAI =

■Amorphous matter
TAI = 3.25(0.17)
Flu = 4.0 - black

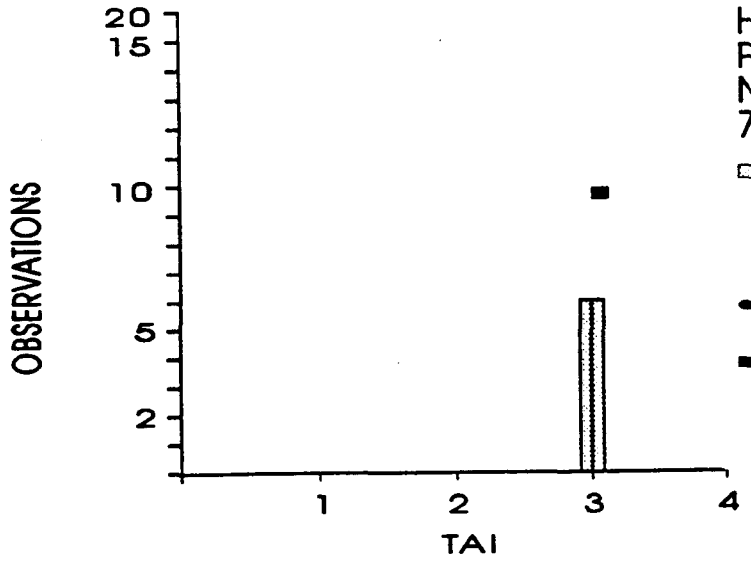


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
725m

Palynomorphs
TAI = 3.02(0.11)
Flu = 4.0 - black
Sum = 81

Zooclasts
TAI = 3.20

Amorphous matter
TAI = 3.38(0.22)
Flu = 4.0 - black

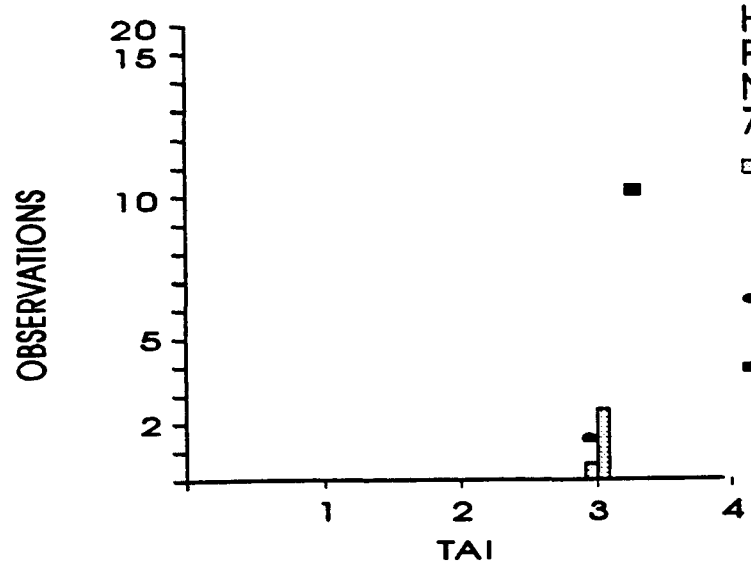


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
760m

Palynomorphs
TAI = 2.95(0.04)
Flu = 4.0 - black
Sum = 12

Zooclasts
TAI =

Amorphous matter
TAI = 3.02(0.08)
Flu = 4.0 - black

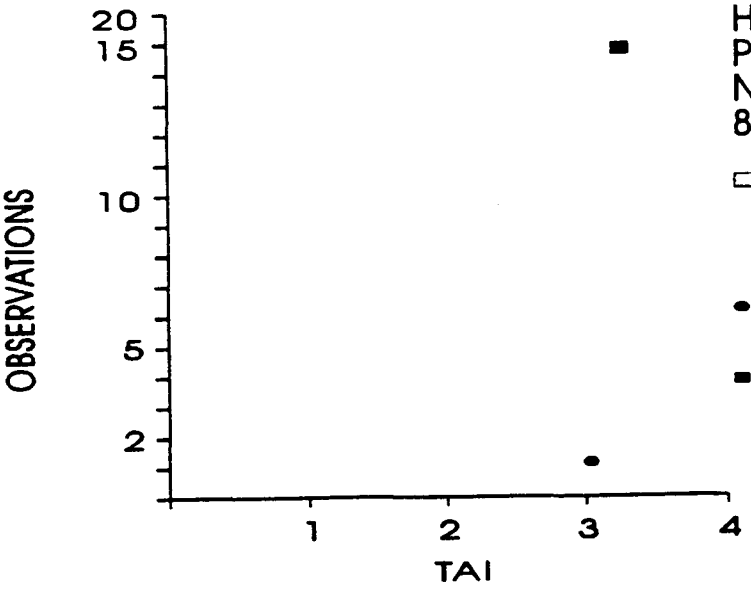


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
780m

Palynomorphs
TAI = 2.98(0.03)
Flu = 4.0 - black
Sum = 3

Zooclasts
TAI = 2.95

Amorphous matter
TAI = 3.29(0.10)
Flu = 4.0 - black

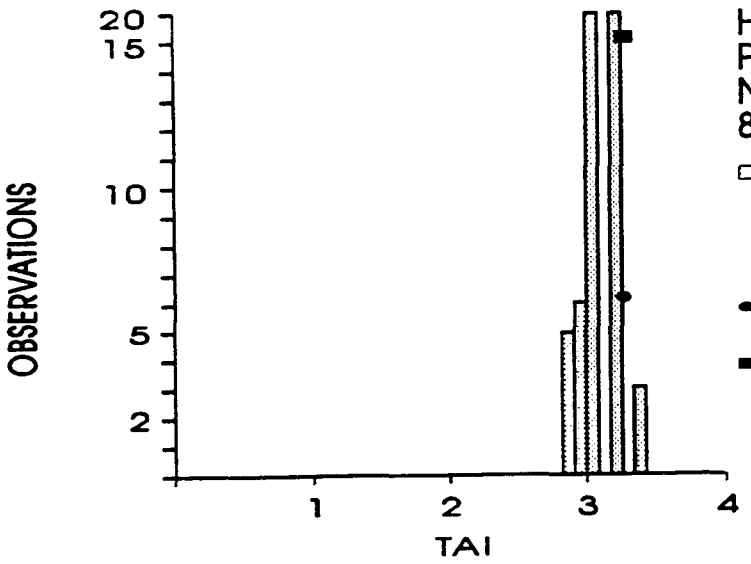


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
825m

□Palynomorphs
TAI =
Flu =
Sum =

● Zooclasts
TAI = 3.00

■ Amorphous matter
TAI = 3.23(0.20)
Flu = 4.0 - black

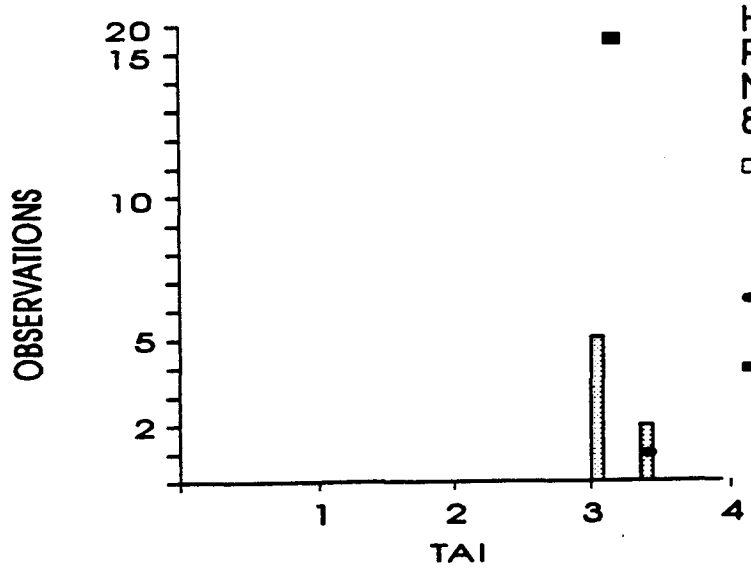


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
865m

□Palynomorphs
TAI = 3.08(0.13)
Flu = 4.0 - black
Sum = 101

● Zooclasts
TAI = 3.20

■ Amorphous matter
TAI = 3.18(0.18)
Flu = 4.0 - black

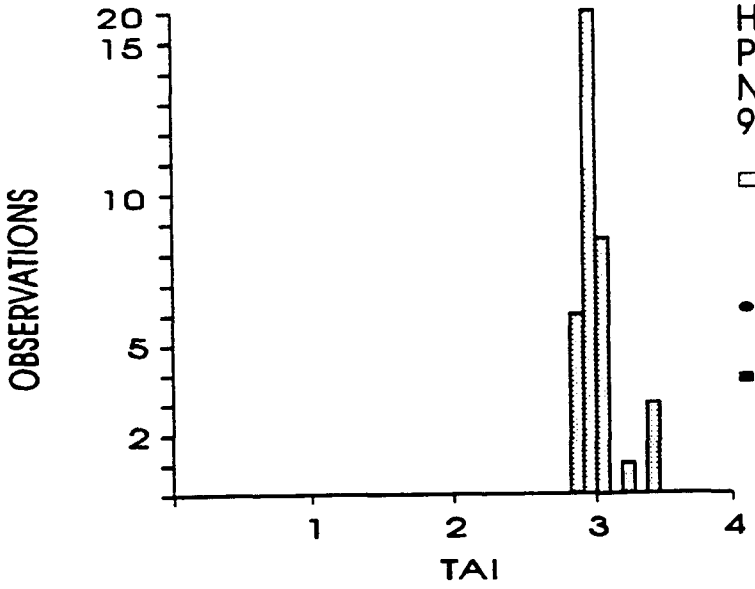


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
880m

□Palynomorphs
TAI = 3.11(0.19)
Flu = 4.0 - black
Sum = 7

● Zooclasts
TAI = 3.40

■ Amorphous matter
TAI = 3.26(0.19)
Flu = 4.0 - black

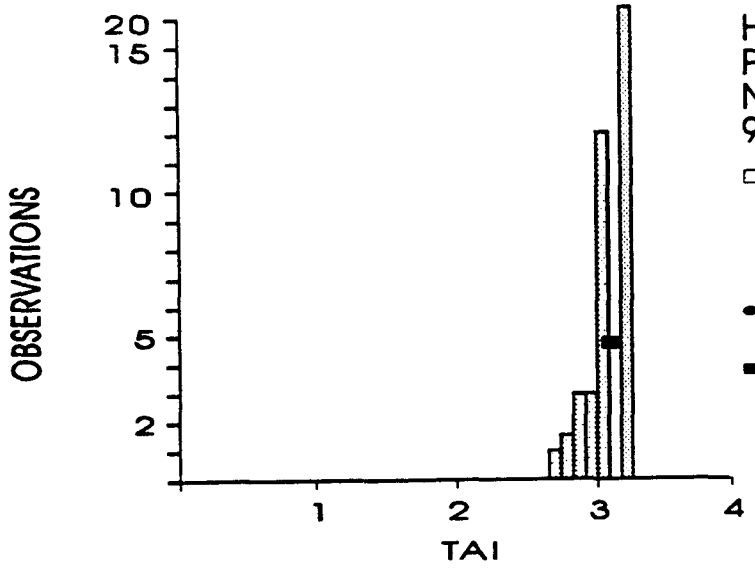


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
900m

□Palynomorphs
TAI = 2.94(0.13)
Flu = 4.0 - black
Sum = 51

● Zooclasts
TAI =

■ Amorphous matter
TAI =
Flu =

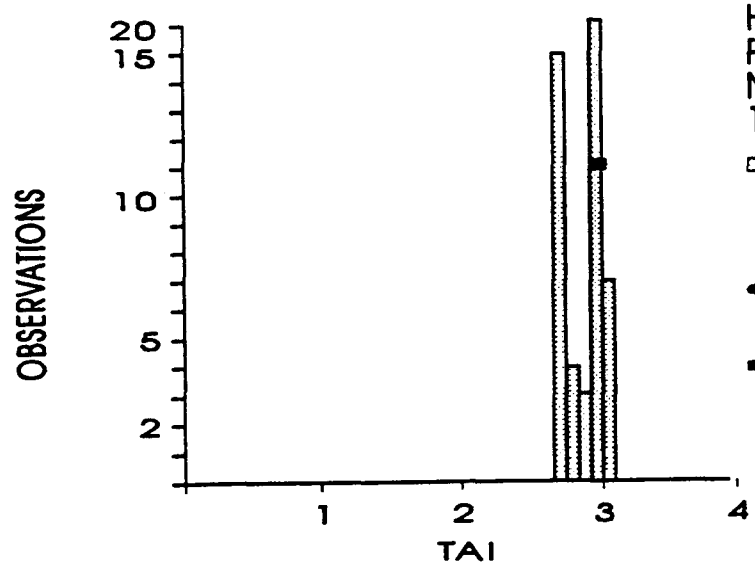


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
940m

□Palynomorphs
TAI = 3.12(0.13)
Flu = 4.0 - black
Sum = 58

● Zooclasts
TAI =

■ Amorphous matter
TAI = 3.10(0.25)
Flu = 4.0 - black

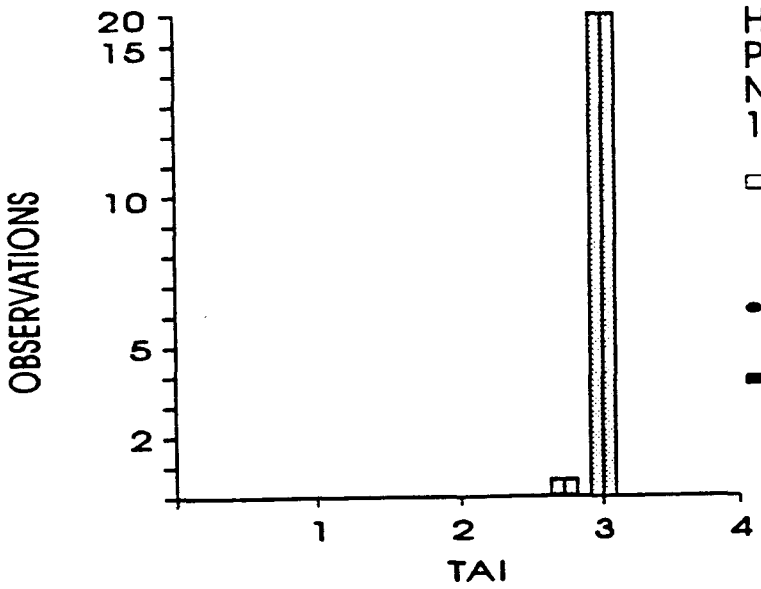


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
1255m

□Palynomorphs
TAI = 2.82(0.14)
Flu = 4.0 - black
Sum = 58

● Zooclasts
TAI =

■ Amorphous matter
TAI = 2.87
Flu = 4.0 - black

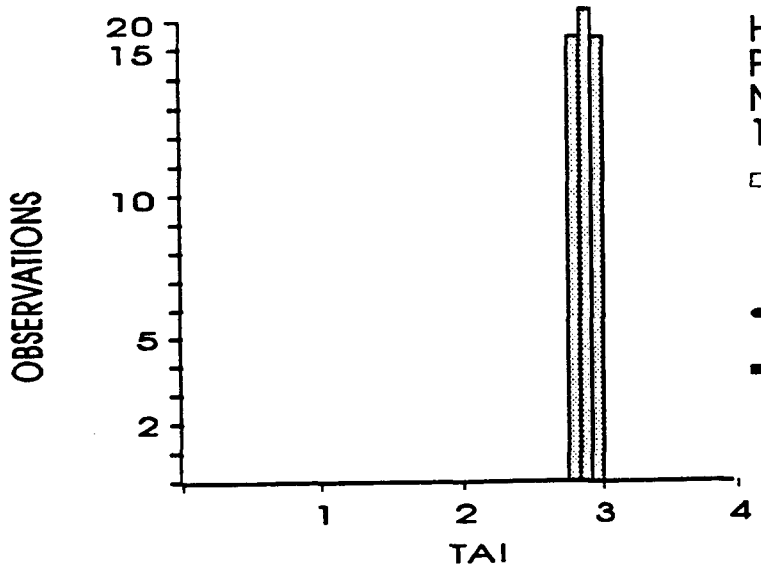


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
1315m

Palynomorphs
TAI = 2.93(0.05)
Flu = 4.0 - black
Sum = 54

Zooclasts
TAI =

Amorphous matter
TAI =
Flu =

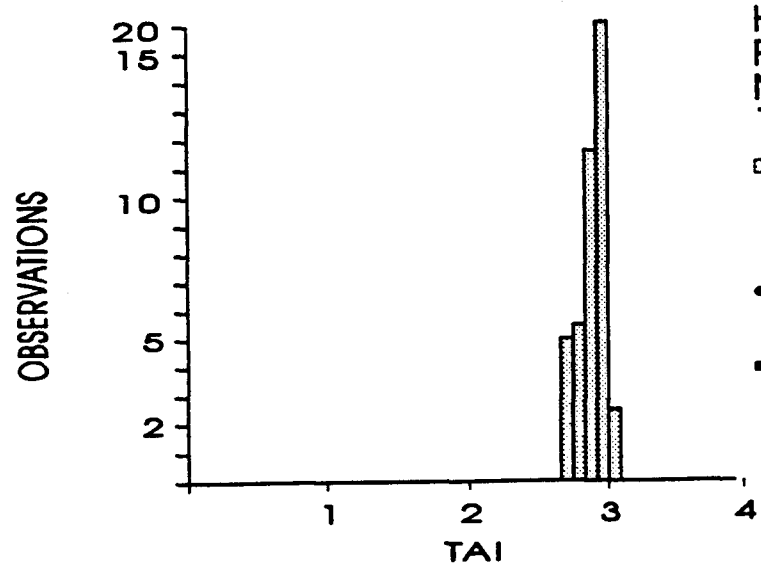


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
1350m

Palynomorphs
TAI = 2.80(0.06)
Flu = 4.0 - black
Sum = 64

Zooclasts
TAI =

Amorphous matter
TAI =
Flu =

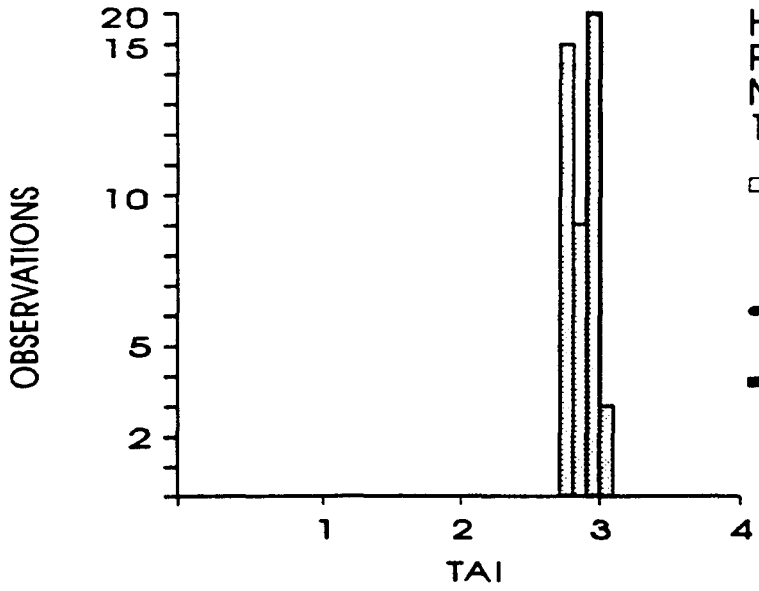


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
1390m

Palynomorphs
TAI = 2.84(0.09)
Flu = 4.0 - black
Sum = 66

Zooclasts
TAI =

Amorphous matter
TAI =
Flu =

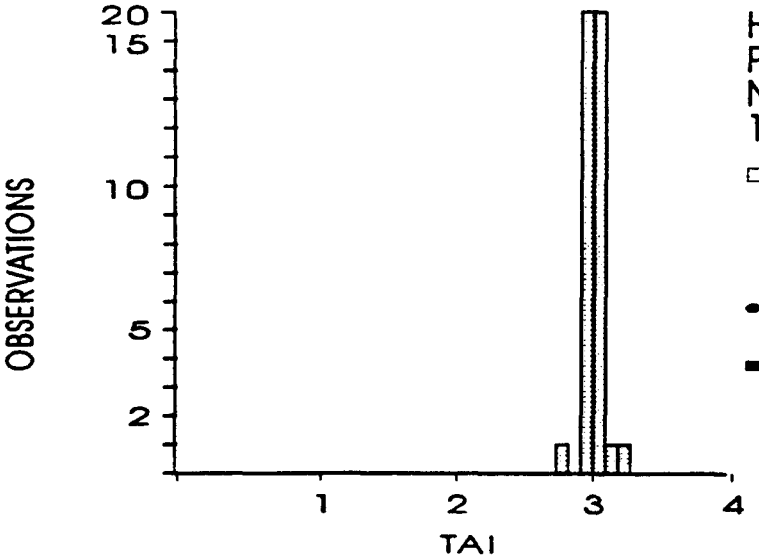


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
1450m

□Palynomorphs
TAI = 2.83(0.09)
Flu = 4.0 - black
Sum = 51

• Zooclasts
TAI =

▪ Amorphous matter
TAI =
Flu =

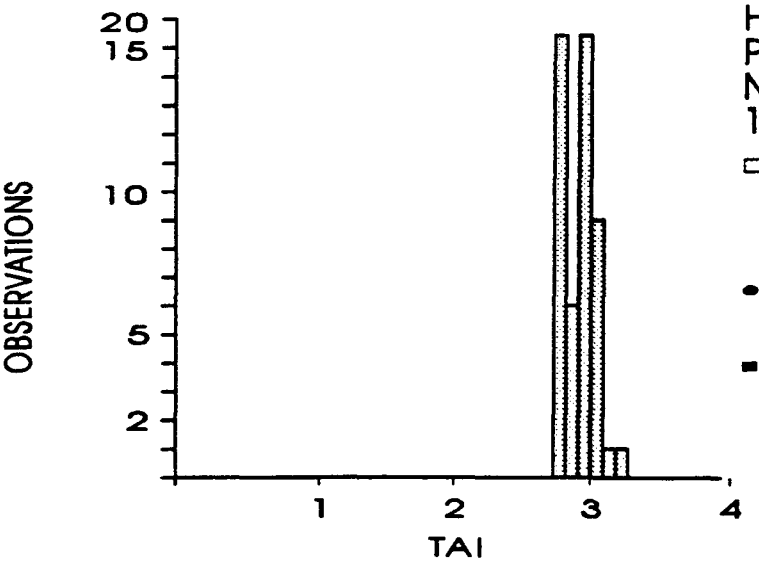


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
1500m

□Palynomorphs
TAI = 2.95(0.06)
Flu = 4.0 - black
Sum = 48

• Zooclasts
TAI =

▪ Amorphous matter
TAI =
Flu =

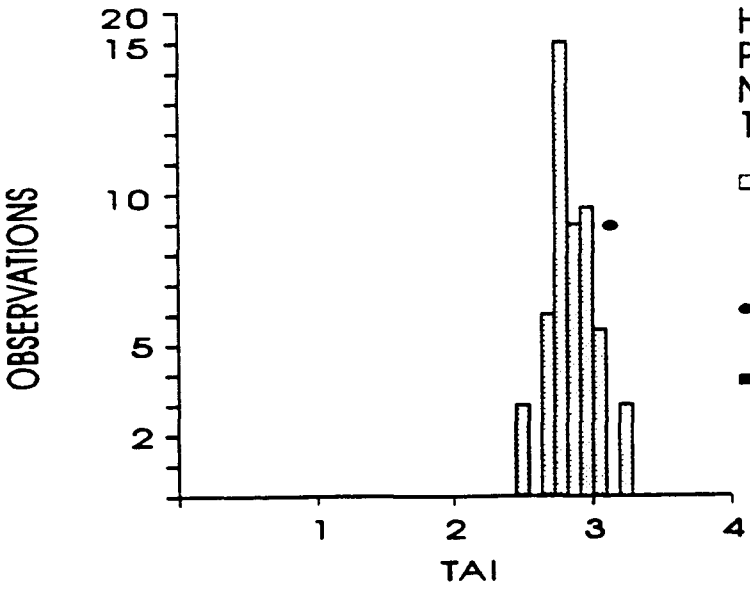


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
1530m

□Palynomorphs
TAI = 2.85(0.13)
Flu = 4.0 - black
Sum = 51

• Zooclasts
TAI =

▪ Amorphous matter
TAI =
Flu =

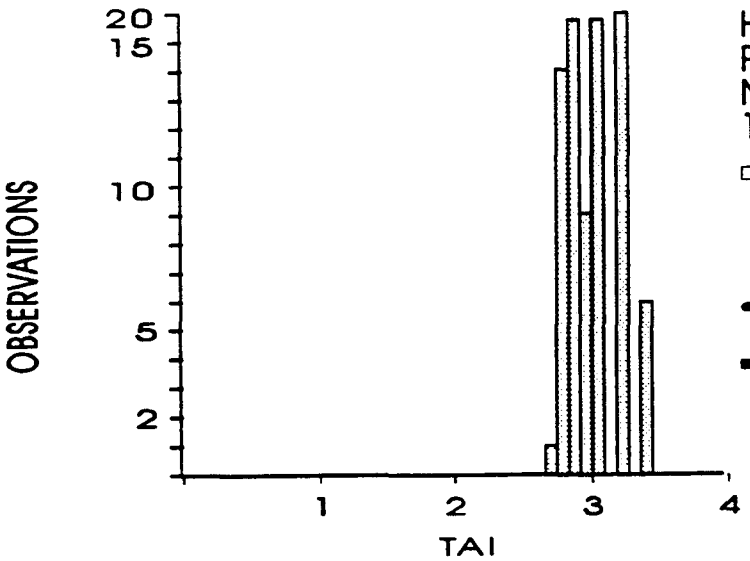


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
1580m

□Palynomorphs
TAI = 2.78(0.18)
Flu = 4.0 - black
Sum = 52

● Zooclasts
TAI = 3.09

■ Amorphous matter
TAI =
Flu =

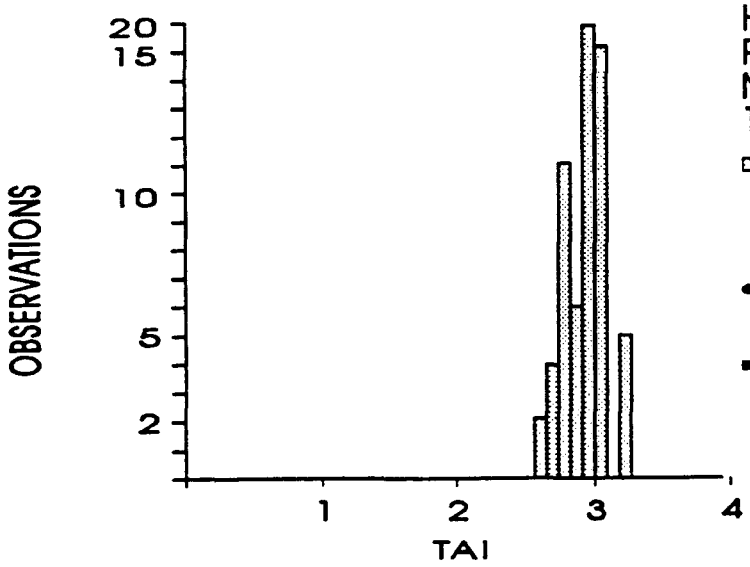


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
1630m

□Palynomorphs
TAI = 2.96(0.20)
Flu = 4.0 - black
Sum = 105

● Zooclasts
TAI =

■ Amorphous matter
TAI =
Flu =

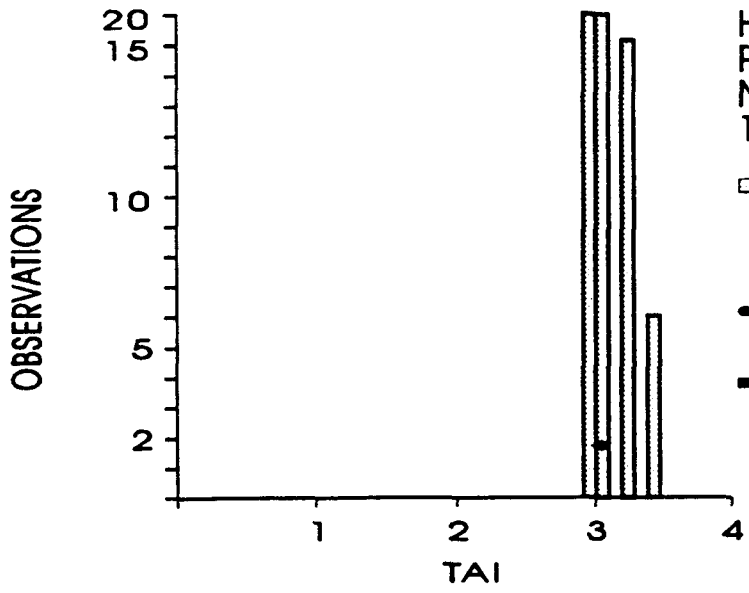


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
1660m

□Palynomorphs
TAI = 2.88(0.16)
Flu = 4.0 - black
Sum = 64

● Zooclasts
TAI =

■ Amorphous matter
TAI =
Flu =

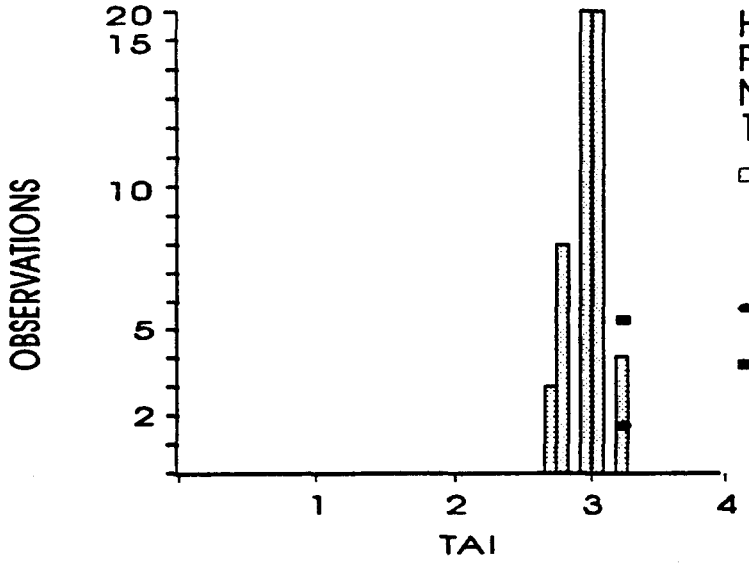


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
1700m

□Palynomorphs
TAI = 2.98(0.13)
Flu = 4.0 - black
Sum = 137

● Zooclasts
TAI = 2.90

■ Amorphous matter
TAI = 2.9
Flu = 4.0 - black

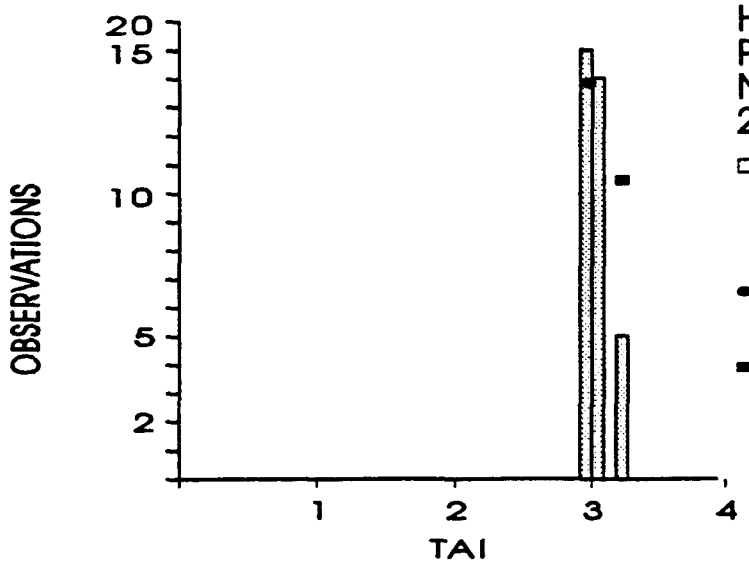


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
1720m

□Palynomorphs
TAI = 2.91(0.14)
Flu = 4.0 - black
Sum = 56

● Zooclasts
TAI = 3.2

■ Amorphous matter
TAI = 3.38(0.07)
Flu = 4.0 - black

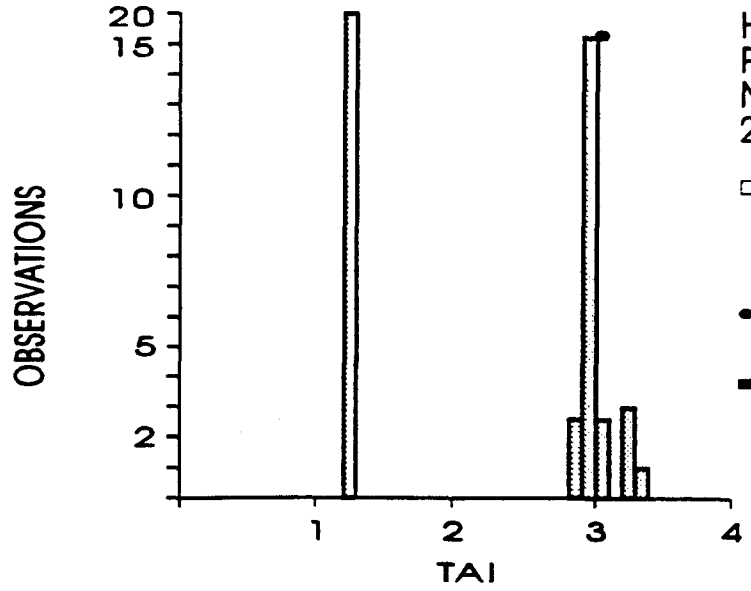


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
2325m

□Palynomorphs
TAI = 2.99(0.09)
Flu = 4.0 - black
Sum = 34

● Zooclasts
TAI = 2.96

■ Amorphous matter
TAI = 3.22(0.12)
Flu = 4.0 - black

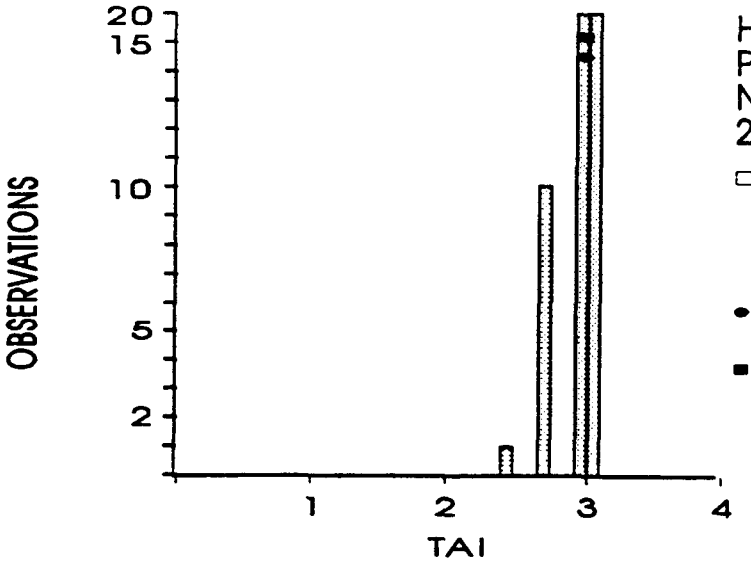


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
2350m

□Palynomorphs
TAI = 2.17(0.98)
Flu = 2.49(0.59) yellow-red
Sum = 65

• Zooclasts
TAI = 3.10

▪ Amorphous matter
TAI =
Flu =

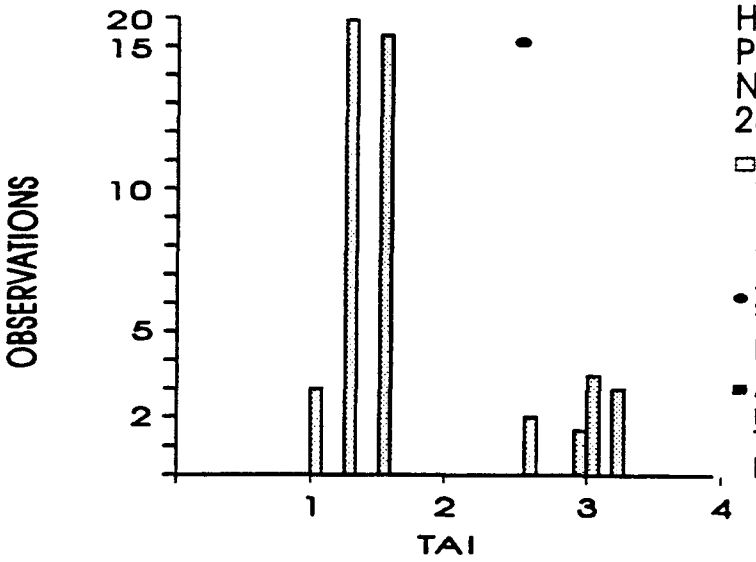


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
2355m

□Palynomorphs
TAI = 2.91(0.17)
Flu = 3.08(0.28) faint brown
Sum = 75

• Zooclasts
TAI = 2.9

▪ Amorphous matter
TAI = 2.89
Flu = 2.0 - yellow

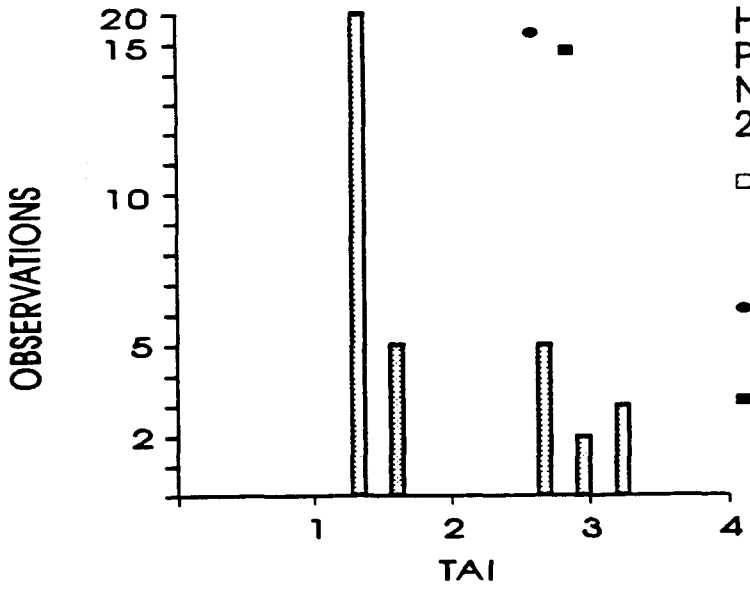


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
2370m

□Palynomorphs
TAI = 1.71(0.66)
Flu = 1.98(0.63) yellow
Sum = 55

• Zooclasts
TAI = 2.59
Flu = 2.5 - orange

▪ Amorphous matter
TAI =
Flu =

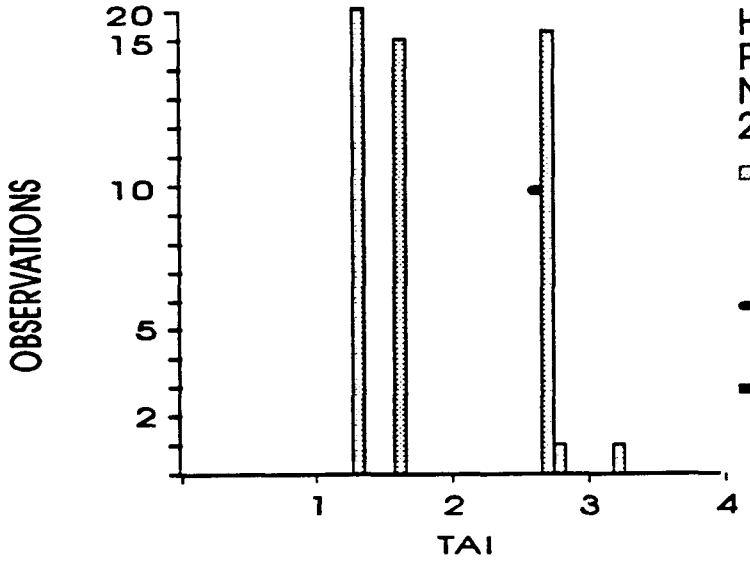


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
2390m

Palynomorphs
TAI = 1.55(0.56)
Flu = 1.90(0.69) yellow
Sum = 67

Zooclasts
TAI = 2.51
Flu = 2.78 red-brown

Amorphous matter
TAI = 2.80
Flu = 2.80 - faint red

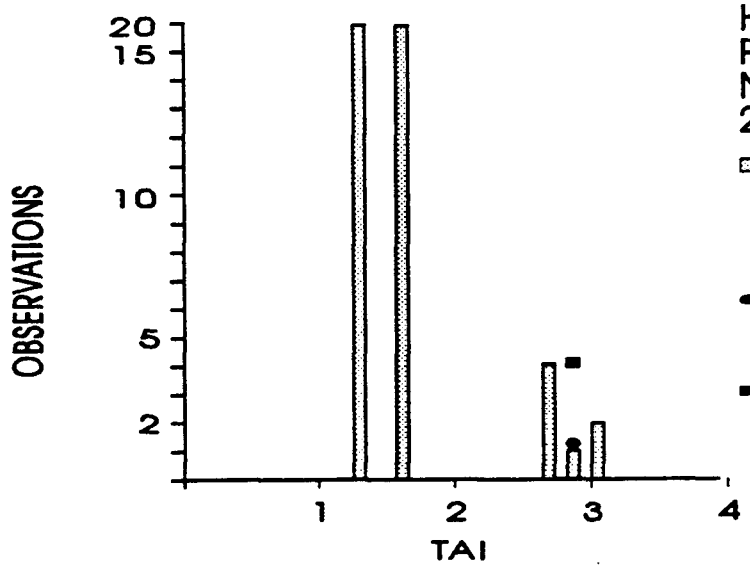


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
2405m

Palynomorphs
TAI = 1.65(0.55)
Flu = 1.90(0.74) yellow
Sum = 81

Zooclasts
TAI = 2.62
Flu = 3.10 brown

Amorphous matter
TAI =
Flu =

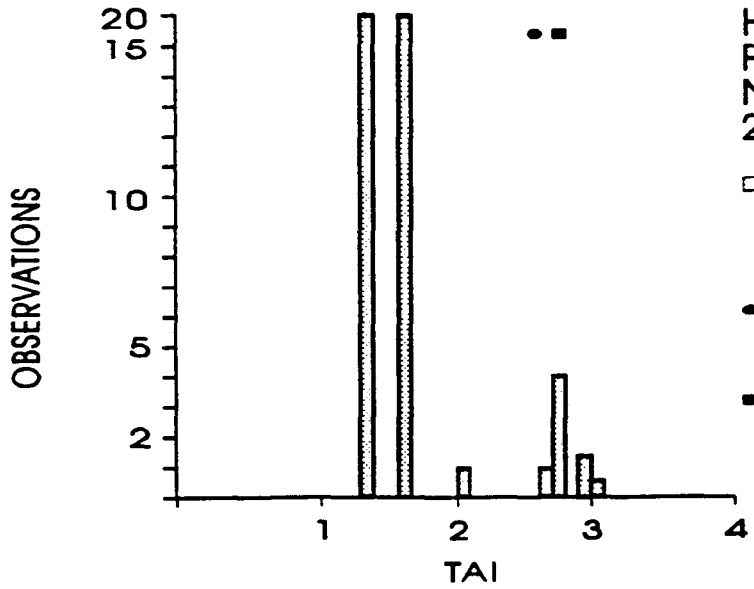


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
2420m

Palynomorphs
TAI = 1.71(0.66)
Flu = 1.94(0.54) yellow
Sum = 47

Zooclasts
TAI = 2.80
Flu = 2.8 - faint red

Amorphous matter
TAI = 2.80
Flu = 3.00 faint brown

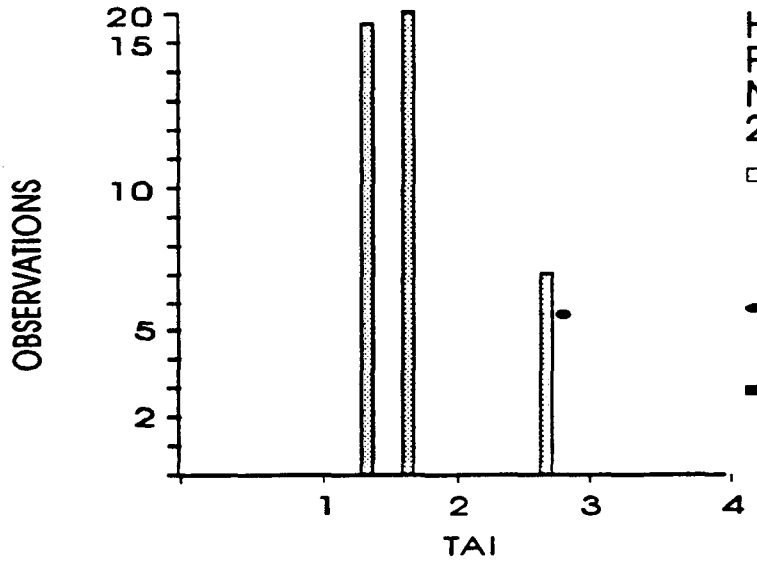


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
2435m

□Palynomorphs
TAI = 1.64(0.48)
Flu = 1.75(0.57) yellow
Sum = 51

• Zooclasts
TAI = 2.59
Flu = 3.04 faint brown

▪ Amorphous matter
TAI = 2.8
Flu = 3.1 faint brown

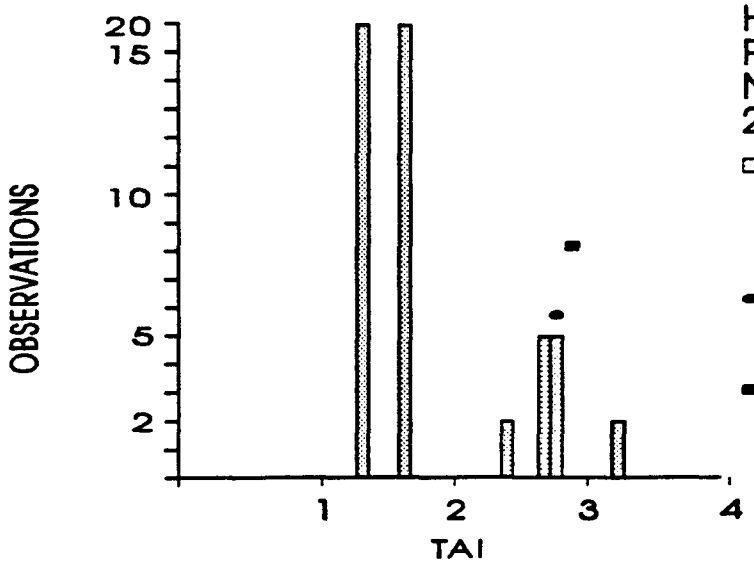


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
2445m

□Palynomorphs
TAI = 1.61(0.36)
Flu = 1.82(0.50) yellow
Sum = 61

• Zooclasts
TAI = 2.8
Flu = 3.10 faint brown

▪ Amorphous matter
TAI =
Flu =

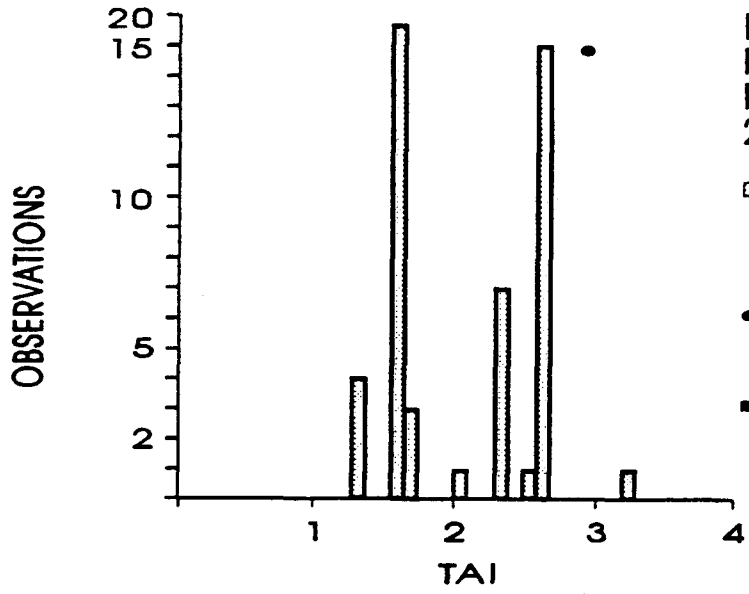


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
2460m

□Palynomorphs
TAI = 1.76(0.51)
Flu = 1.99(0.51) yellow
Sum = 69

• Zooclasts
TAI = 2.50
Flu = 3.1 faint brown

▪ Amorphous matter
TAI = 2.8
Flu = 3.1 faint brown

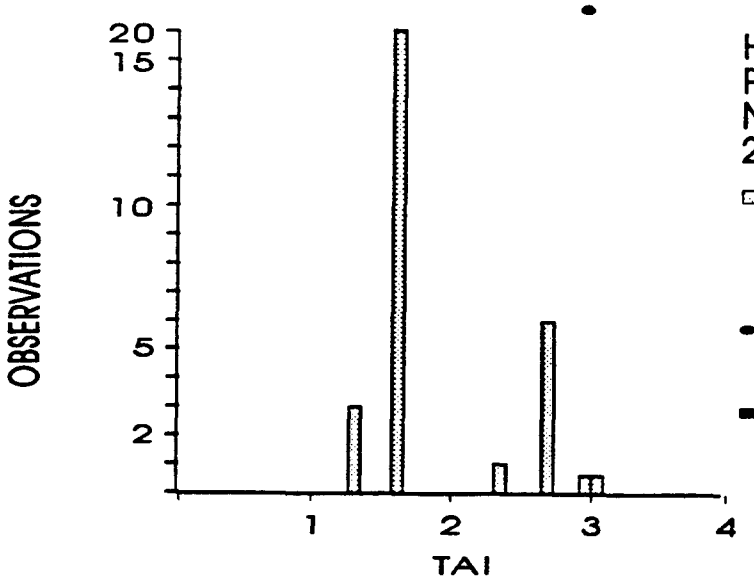


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
2495m

Palynomorphs
TAI = 2.04(0.51)
Flu = 2.07(0.59) yellow
Sum = 50

Zooclasts
TAI = 2.90
Flu = 3.2 - black

Amorphous matter
TAI =
Flu =

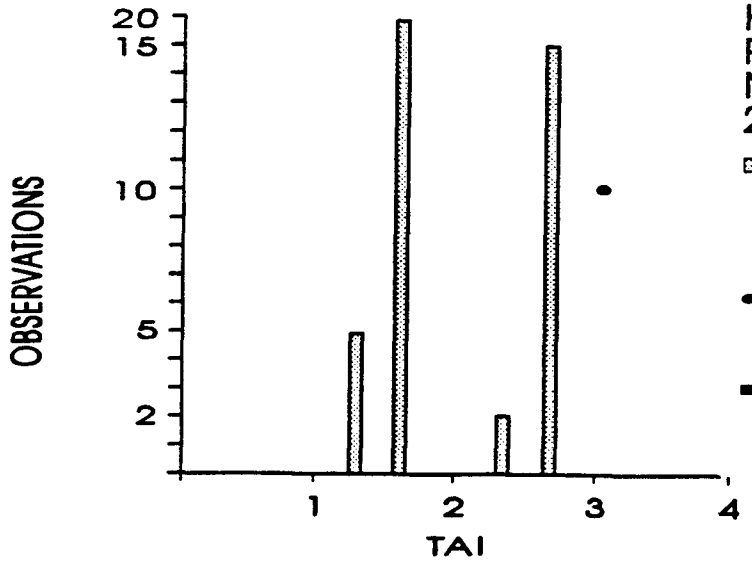


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
2540m

Palynomorphs
TAI = 1.78(0.44)
Flu = 2.12(0.51) orange
Sum = 39

Zooclasts
TAI = 2.92
Flu = 4.0 - black

Amorphous matter
TAI =
Flu =

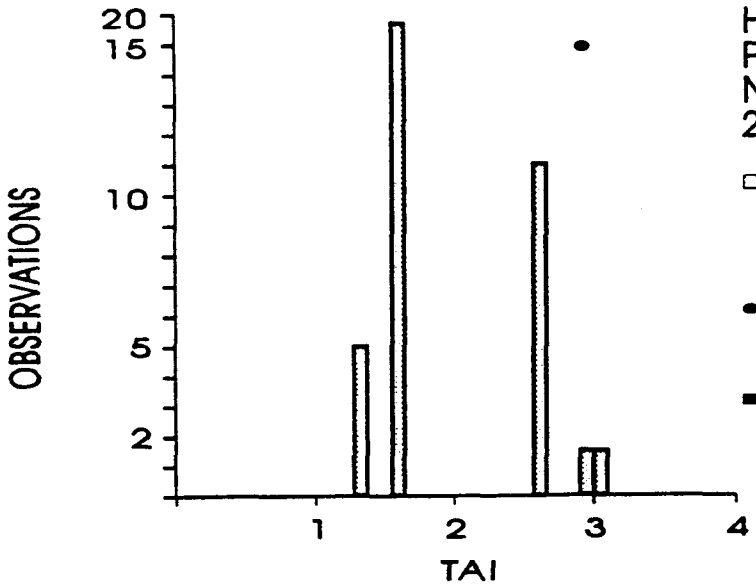


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
2580m

Palynomorphs
TAI = 1.85(0.47)
Flu = 1.96(0.48) yellow
Sum = 59

Zooclasts
TAI = 3.13
Flu = 4.0 - black

Amorphous matter
TAI =
Flu =

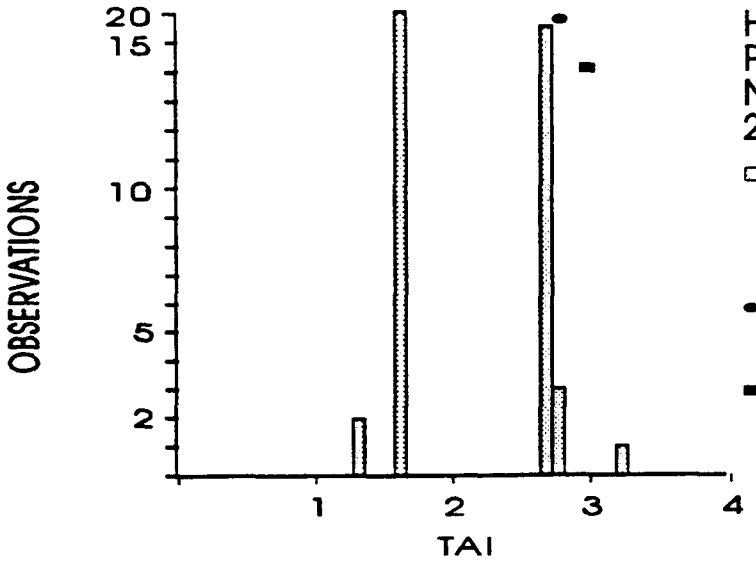


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
2620m

□Palynomorphs
TAI = 1.83(0.52)
Flu = 1.93(0.56) yellow
Sum = 37

• Zooclasts
TAI = 2.95
Flu = 4.0 - black

▪ Amorphous matter
TAI =
Flu =

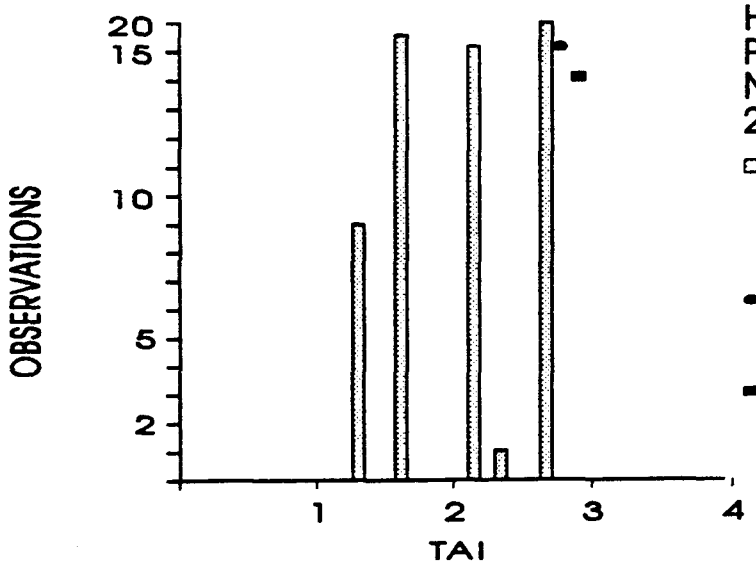


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
2660m

□Palynomorphs
TAI = 2.01(0.55)
Flu = 2.13(0.53) orange
Sum = 42

• Zooclasts
TAI = 2.80
Flu = 4.0 - black

▪ Amorphous matter
TAI = 3.0
Flu = 3.2 - black

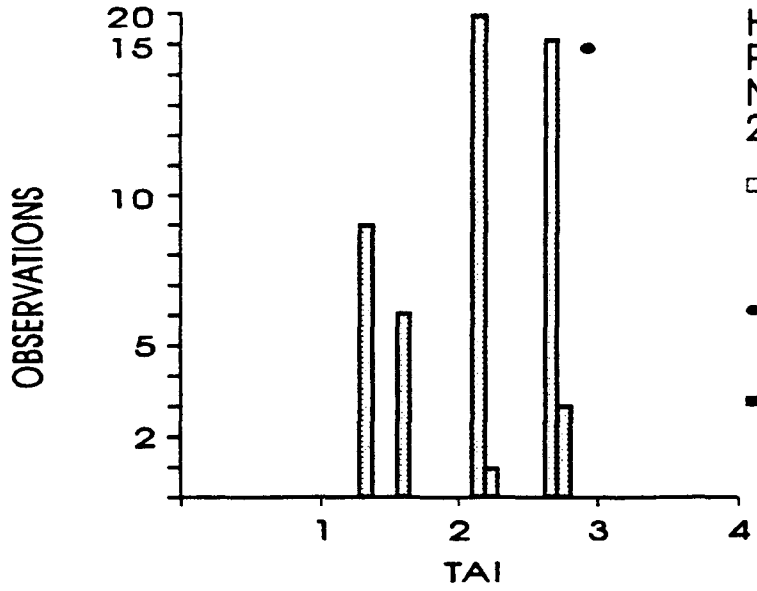


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
2700m

□Palynomorphs
TAI = 2.02(0.52)
Flu = 2.26(0.52) orange
Sum = 58

• Zooclasts
TAI = 2.83
Flu = 3.2 - black

▪ Amorphous matter
TAI = 2.90
Flu = 4.0 - black

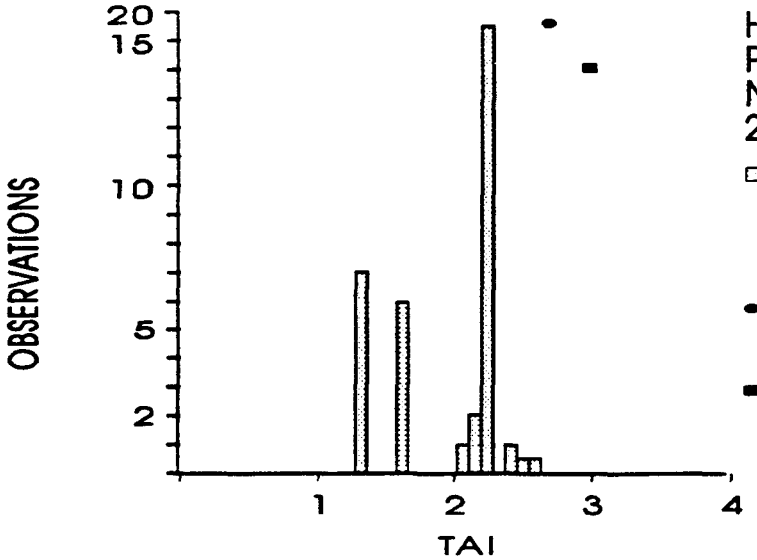


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
2750m

Palynomorphs
TAI = 2.05(0.51)
Flu = 2.18(0.52) orange
Sum = 57

Zooclasts
TAI = 2.87
Flu = 3.2 - black

Amorphous matter
TAI =
Flu =

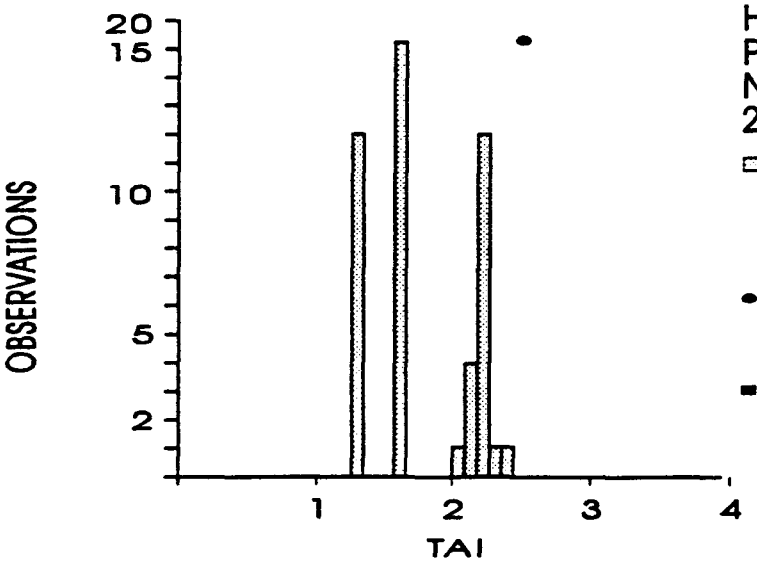


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
2795m

Palynomorphs
TAI = 1.91(0.40)
Flu = 2.03(0.43) orange
Sum = 34

Zooclasts
TAI = 2.63
Flu = 2.41 - orange

Amorphous matter
TAI =
Flu =

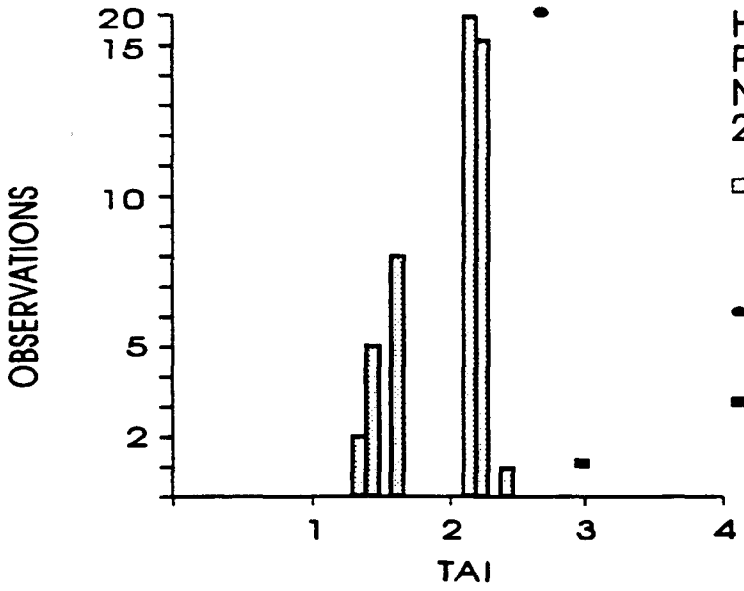


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
2850m

Palynomorphs
TAI = 1.74(0.37)
Flu = 1.80(0.53) - yellow
Sum = 47

Zooclasts
TAI = 2.52
Flu = 3.2 - black

Amorphous matter
TAI =
Flu =

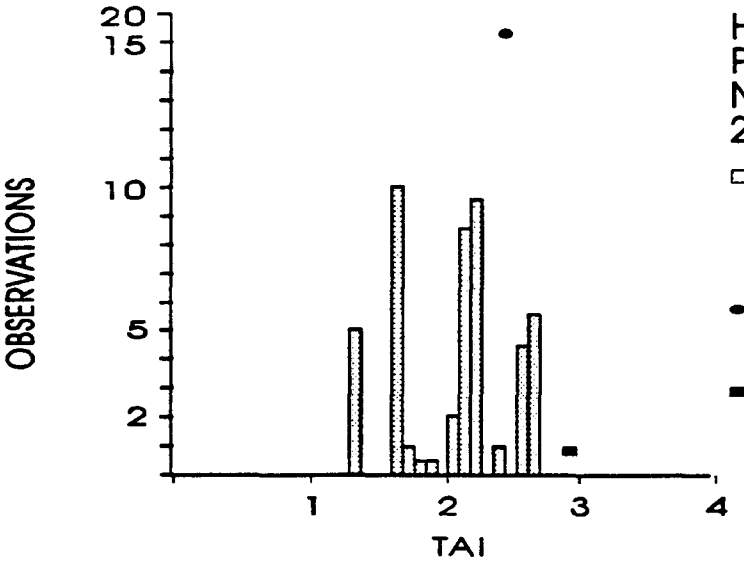


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
2895m

▭Palynomorphs
TAI = 1.98(0.29)
Flu = 1.81(0.29) - yellow
Sum = 52

● Zooclasts
TAI = 2.67
Flu = 4.0 - black

▪ Amorphous matter
TAI = 2.95
Flu = 4.0 - black

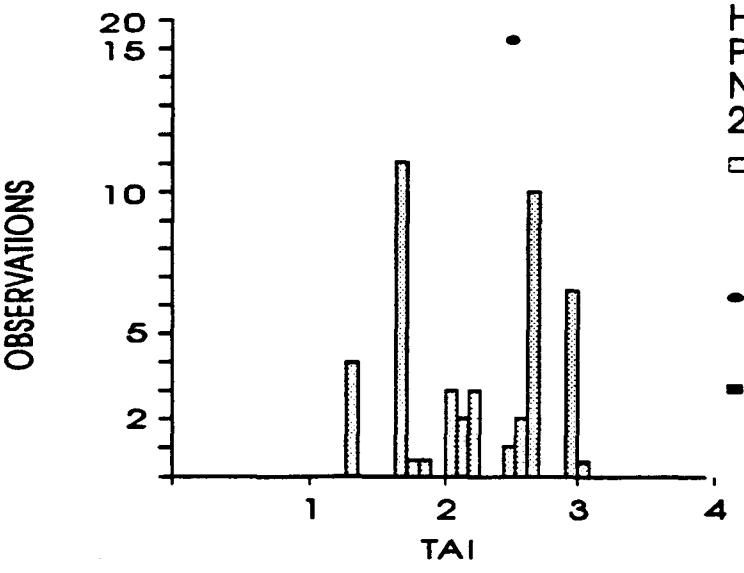


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
2945m

▭Palynomorphs
TAI = 2.06(0.43)
Flu = 2.48(0.62) orange
Sum = 44

● Zooclasts
TAI = 2.59
Flu = 4.0 - black

▪ Amorphous matter
TAI = 2.95
Flu = 4.0 - black

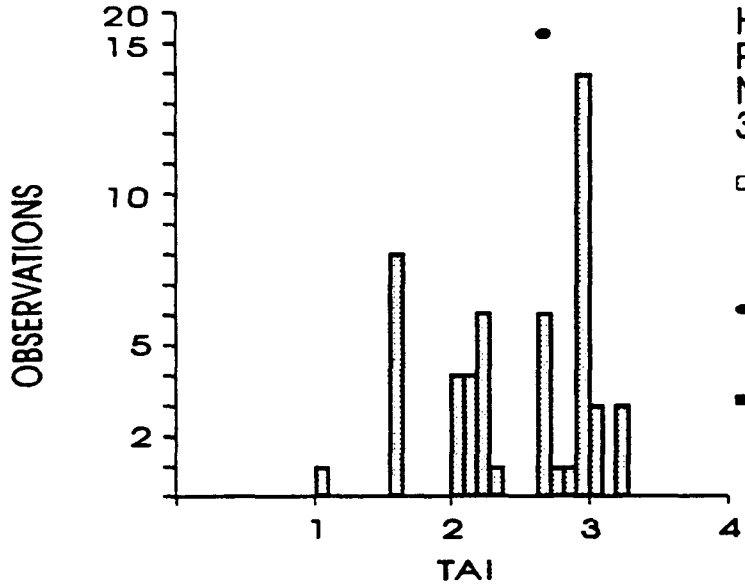


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
2990m

▭Palynomorphs
TAI = 2.13(0.48)
Flu = 2.29(0.70) - orange
Sum = 48

● Zooclasts
TAI = 2.71
Flu = 3.2 - black

▪ Amorphous matter
TAI =
Flu =

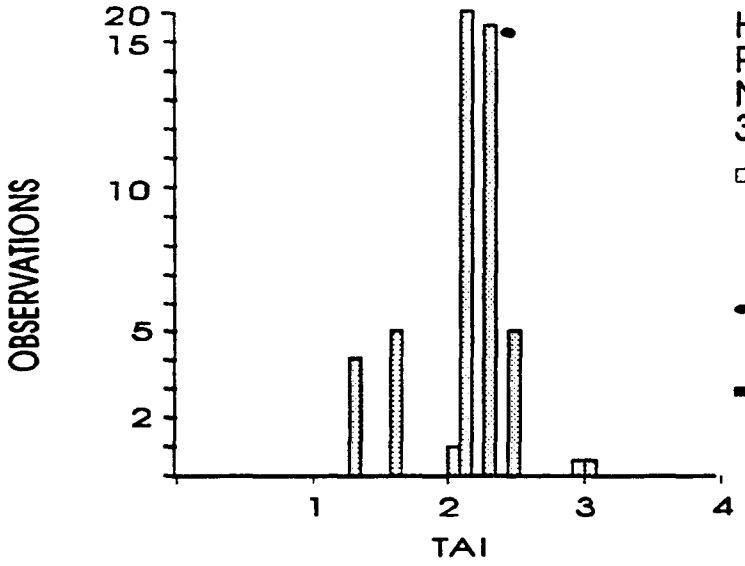


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
3035m

□Palynomorphs
TAI = 2.43(0.55)
Flu = 2.39(0.60) - orange
Sum = 51

• Zooclasts
TAI = 2.78
Flu = 4.0 - black

▪ Amorphous matter
TAI = 2.9
Flu = 4.0 - black

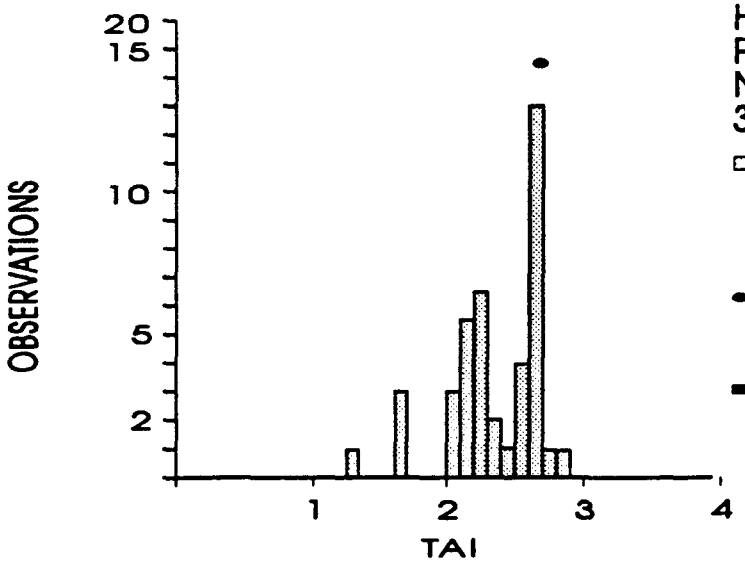


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
3075m

□Palynomorphs
TAI = 2.18(0.35)
Flu = 2.50(0.62) red
Sum = 63

• Zooclasts
TAI = 2.65
Flu = 3.2 - black

▪ Amorphous matter
TAI =
Flu =

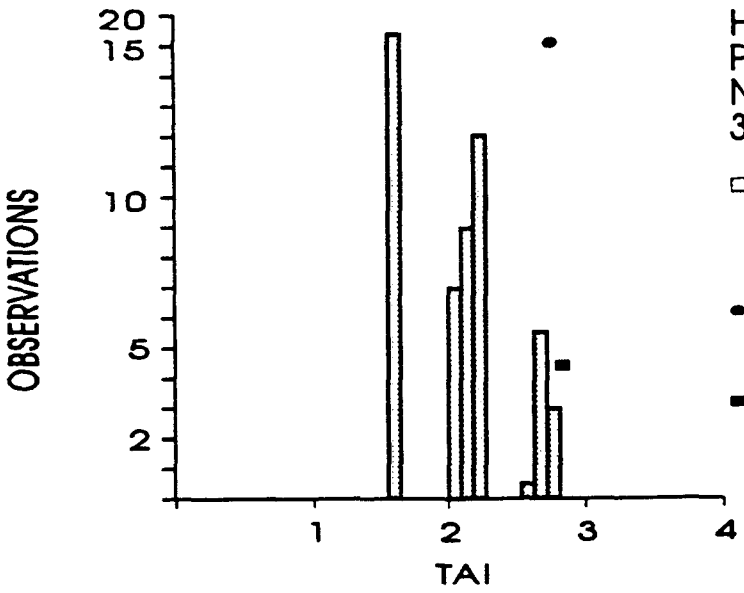


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
3115m

□Palynomorphs
TAI = 2.30(0.34)
Flu = 2.28(0.69) - orange
Sum = 41

• Zooclasts
TAI = 2.71
Flu = 4.0 - black

▪ Amorphous matter
TAI = 2.8
Flu = 4.0 - black

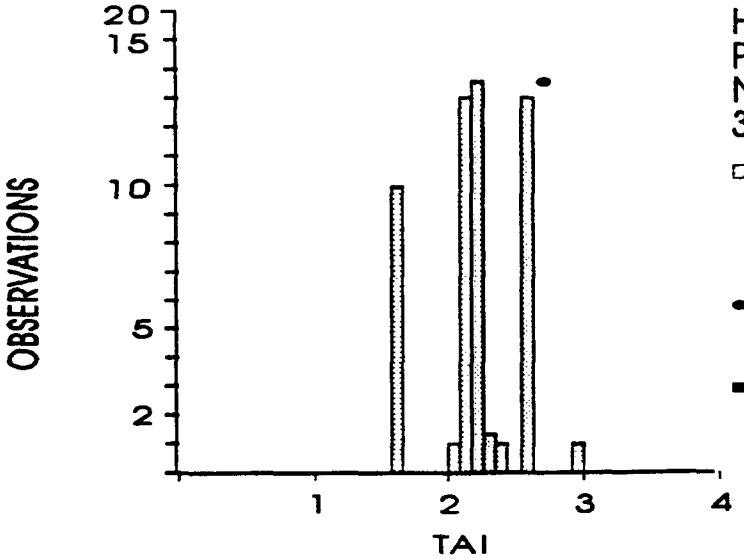


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
3155m

Palynomorphs
TAI = 1.97(0.39)
Flu = 2.09(0.57) - orange
Sum = 57

Zooclasts
TAI = 2.75
Flu = 4.0 - black

Amorphous matter
TAI = 2.85
Flu = 4.0 - black

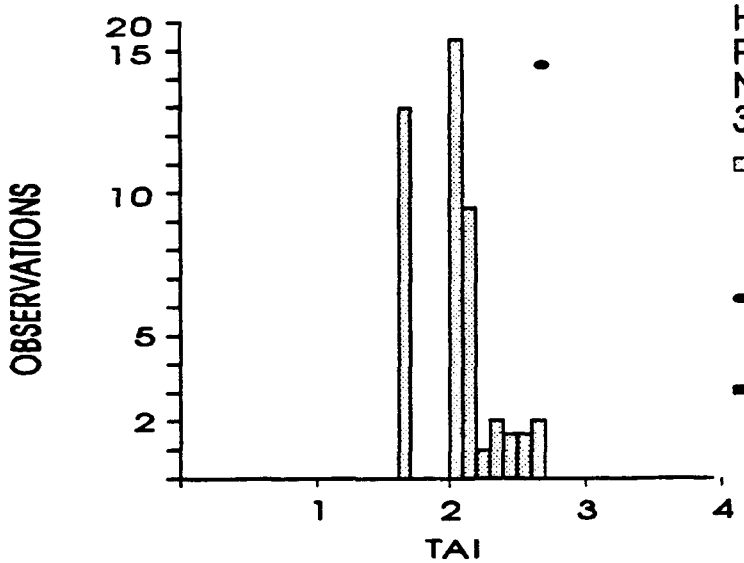


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
3185m

Palynomorphs
TAI = 2.20(0.35)
Flu = 2.15(0.60) orange
Sum = 59

Zooclasts
TAI = 2.75
Flu = 4.0 - black

Amorphous matter
TAI = 2.8
Flu =4.0 - black

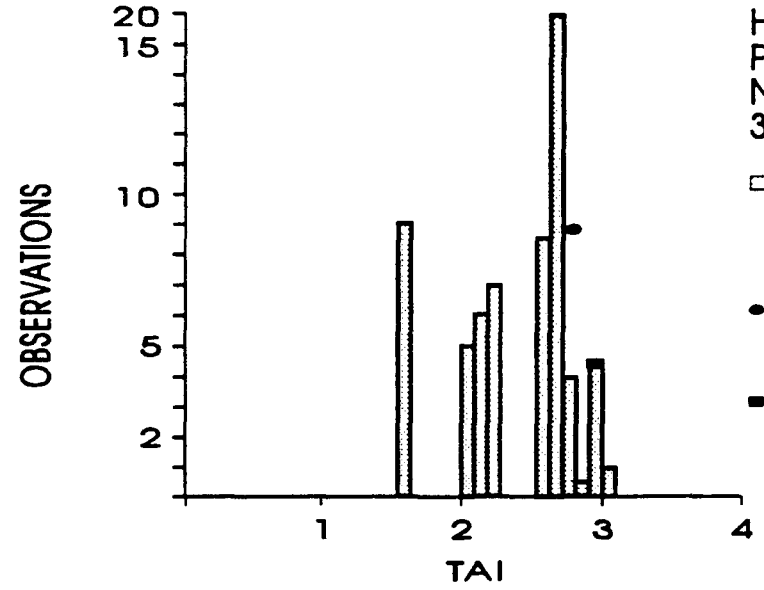


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
3210m

Palynomorphs
TAI = 2.04(0.31)
Flu = 2.41(0.58) - orange
Sum = 48

Zooclasts
TAI = 2.69
Flu = 4.0 - black

Amorphous matter
TAI = 2.7
Flu = 4.0 - black

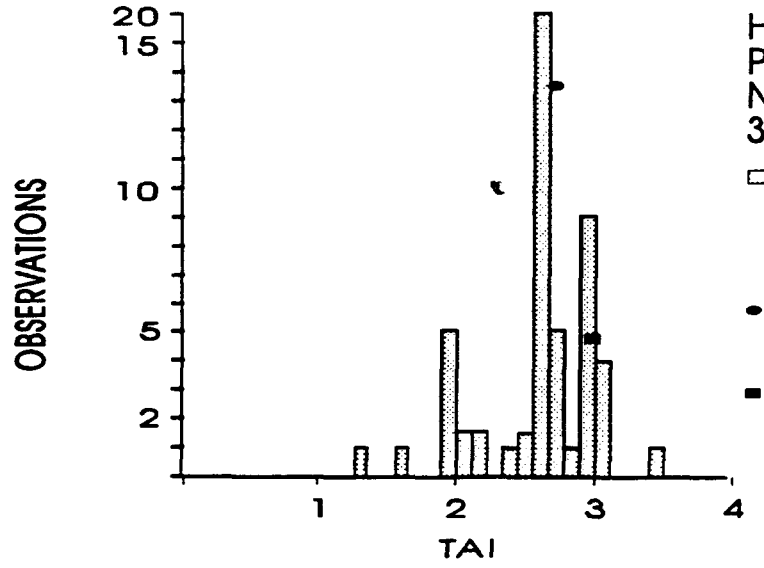


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
3260m

□Palynomorphs
TAI = 2.37(0.39)
Flu = 2.78(0.61) faint red
Sum = 61

● Zooclasts
TAI = 2.82
Flu = 4.0 - black

▬ Amorphous matter
TAI = 2.95
Flu = 4.0 - black

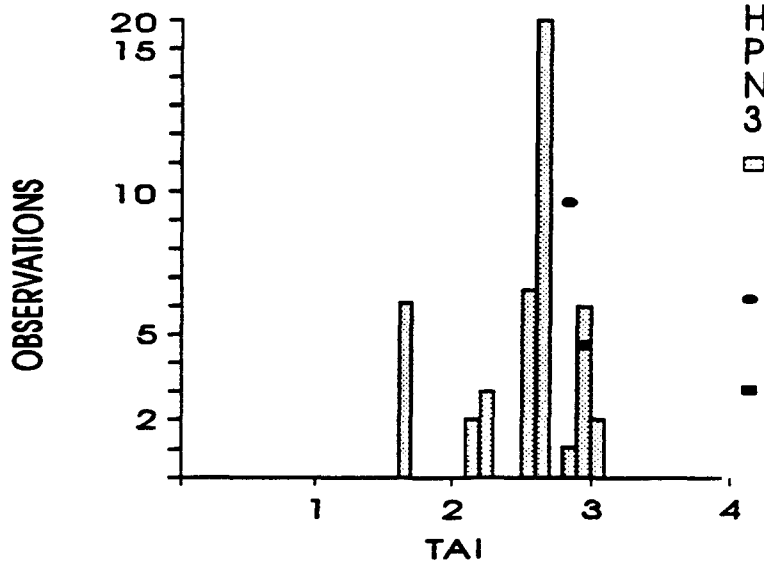


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
3295m

□Palynomorphs
TAI = 2.58(0.37)
Flu = 2.93(0.55) faint red
Sum = 54

● Zooclasts
TAI = 2.70
Flu = 4.0 - black

▬ Amorphous matter
TAI = 2.90
Flu = 4.0 - black

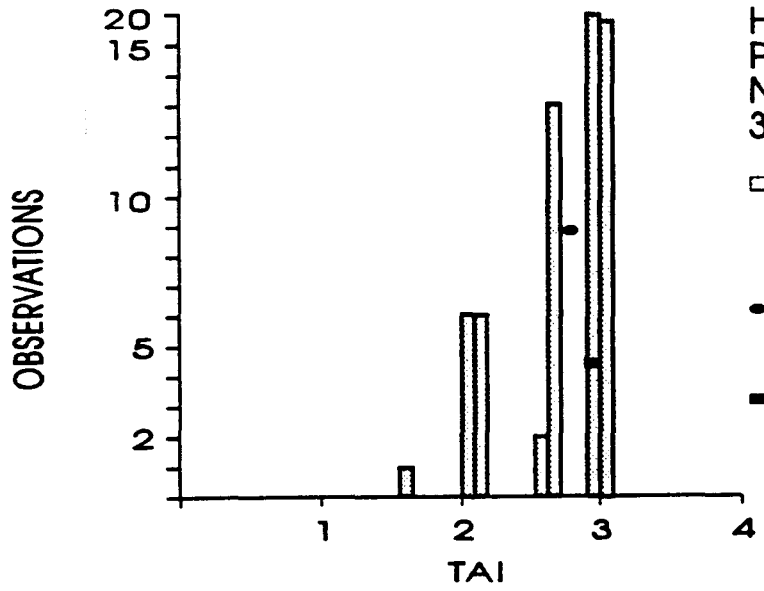


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
3325m

□Palynomorphs
TAI = 2.45(0.41)
Flu = 2.88(0.58) faint red
Sum = 45

● Zooclasts
TAI = 2.80
Flu = 4.0 - black

▬ Amorphous matter
TAI = 2.90
Flu = 4.0 - black

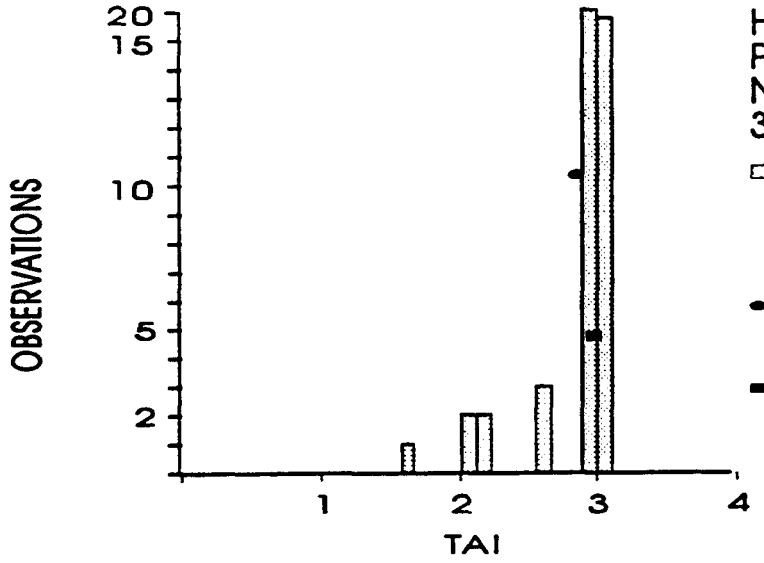


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
3385m

□Palynomorphs
TAI = 2.70(0.34)
Flu = 2.96(0.51) faint red
Sum = 66

● Zooclasts
TAI = 2.78
Flu = 4.0 - black

▬ Amorphous matter
TAI = 2.95
Flu = 3.2 - black

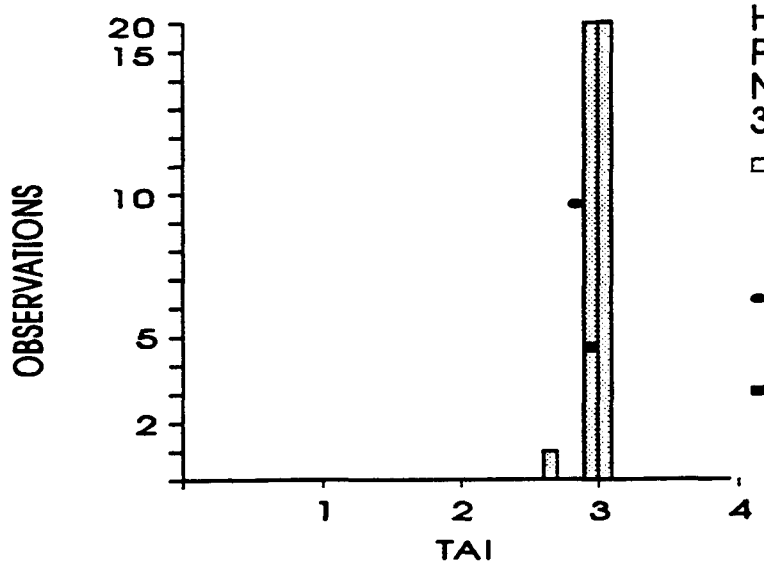


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
3440m

□Palynomorphs
TAI = 2.85(0.25)
Flu = 3.06(0.20) faint brown
Sum = 69

● Zooclasts
TAI = 2.80
Flu = 4.0 - black

▬ Amorphous matter
TAI = 2.90
Flu = 4.0 - black

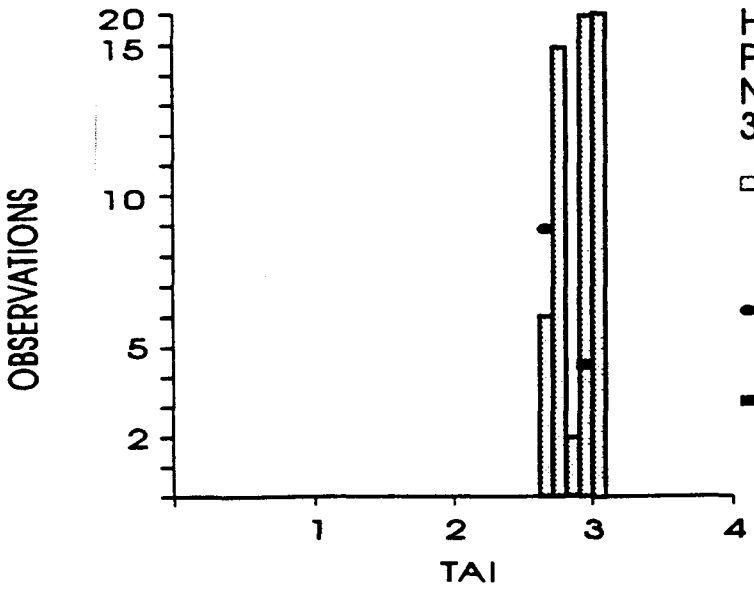


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
3485m

□Palynomorphs
TAI = 2.94(0.06)
Flu = 3.2 - black
Sum = 76

● Zooclasts
TAI = 2.75
Flu = 4.0 - black

▬ Amorphous matter
TAI = 2.90
Flu = 4.0 - black

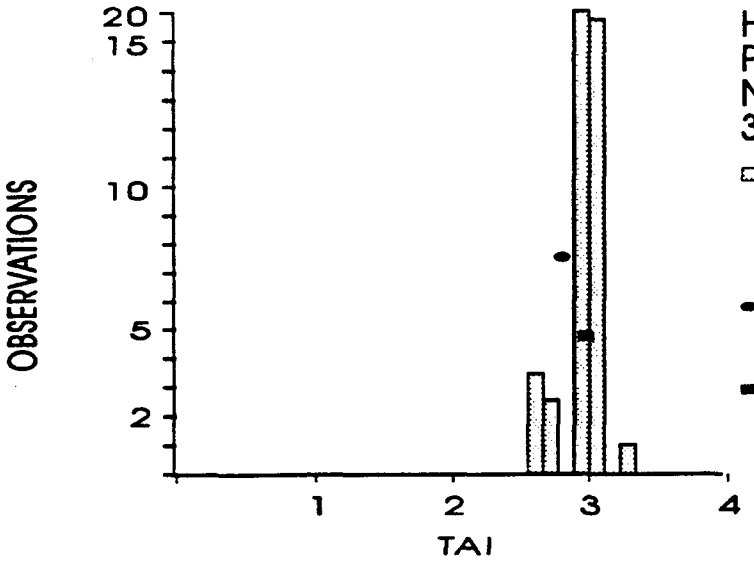


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
3535m

Palynomorphs
TAI = 2.86(0.15)
Flu = 4.0 - black
Sum = 73

Zooclasts
TAI = 2.69
Flu = 4.0 - black

Amorphous matter
TAI = 2.90
Flu = 4.0 - black

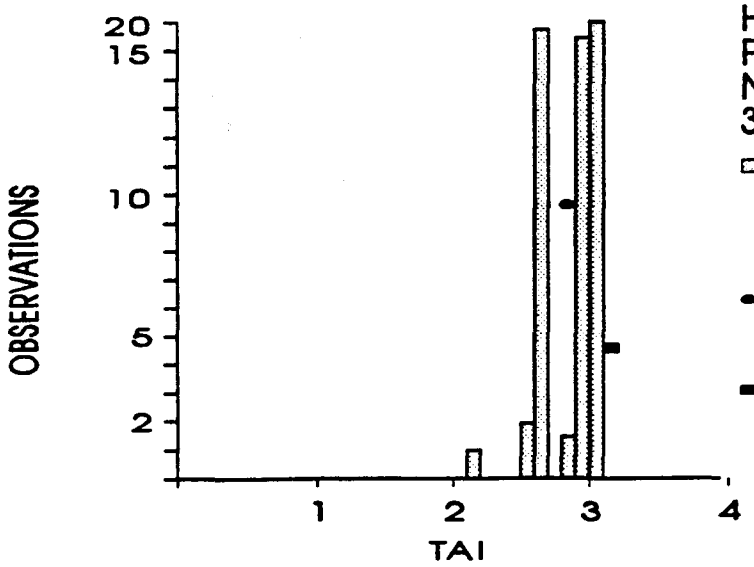


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
3555m

Palynomorphs
TAI = 2.93(0.10)
Flu = 4.0 - black
Sum = 65

Zooclasts
TAI = 2.70
Flu = 4.0 - black

Amorphous matter
TAI = 2.90
Flu = 4.0 - black

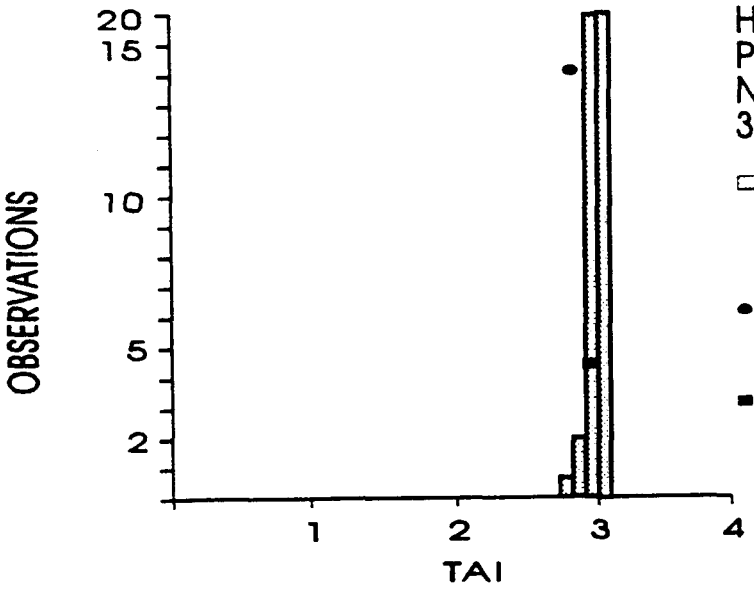


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
3600m

Palynomorphs
TAI = 2.82(0.18)
Flu = 3.2 - black
Sum = 61

Zooclasts
TAI = 2.68
Flu = 4.0 - black

Amorphous matter
TAI = 3.10
Flu = 4.0 - black

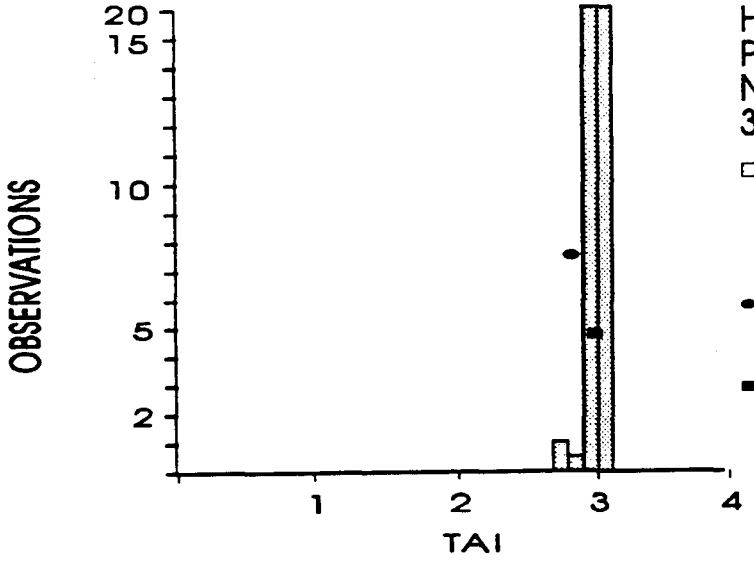


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
3660m

Palynomorphs
TAI = 2.93(0.05)
Flu = 4.0 - black
Sum = 66

Zooclasts
TAI = 2.75
Flu = 4.0 - black

Amorphous matter
TAI = 2.90
Flu = 4.0 - black

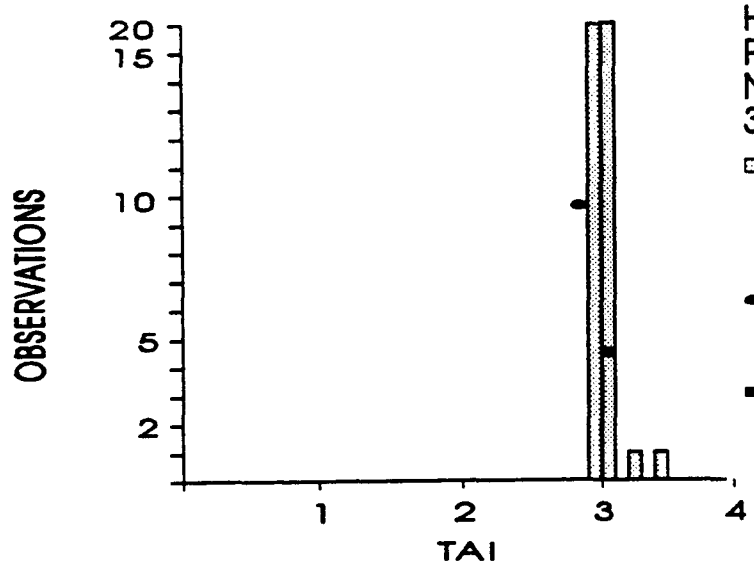


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
3705m

Palynomorphs
TAI = 2.93(0.05)
Flu = 4.0 - black
Sum = 69

Zooclasts
TAI = 2.77
Flu = 4.0 - black

Amorphous matter
TAI = 2.95
Flu = 4.0 - black

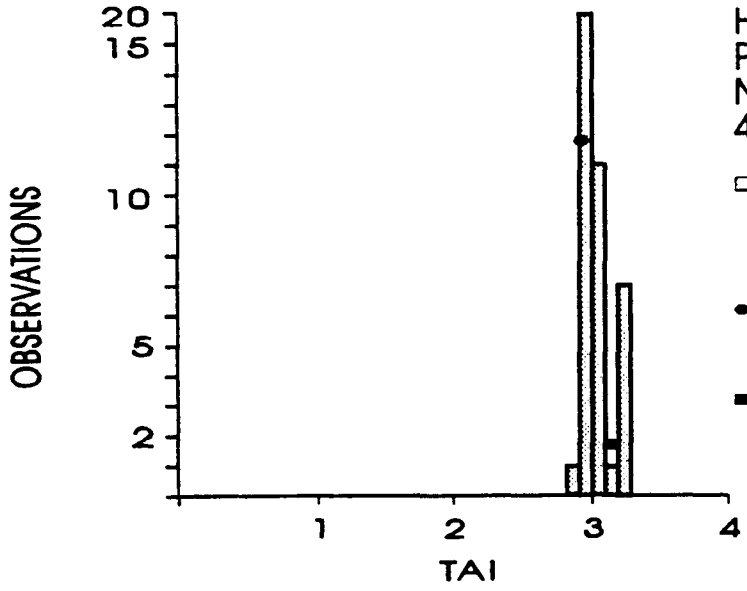


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
3760m

Palynomorphs
TAI = 2.96(0.08)
Flu = 4.0 - black
Sum = 53

Zooclasts
TAI = 2.82
Flu = 4.0 - black

Amorphous matter
TAI = 3.00
Flu = 4.0 - black

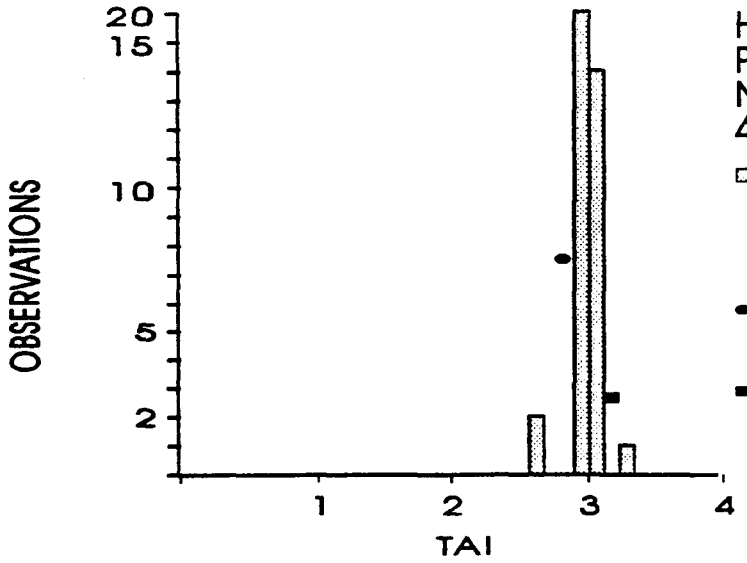


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
4170m

Palynomorphs
TAI = 2.97(0.11)
Flu = 4.0 - black
Sum = 49

Zooclasts
TAI = 3.05
Flu = 4.0 - black

Amorphous matter
TAI = 3.10
Flu = 4.0 - black

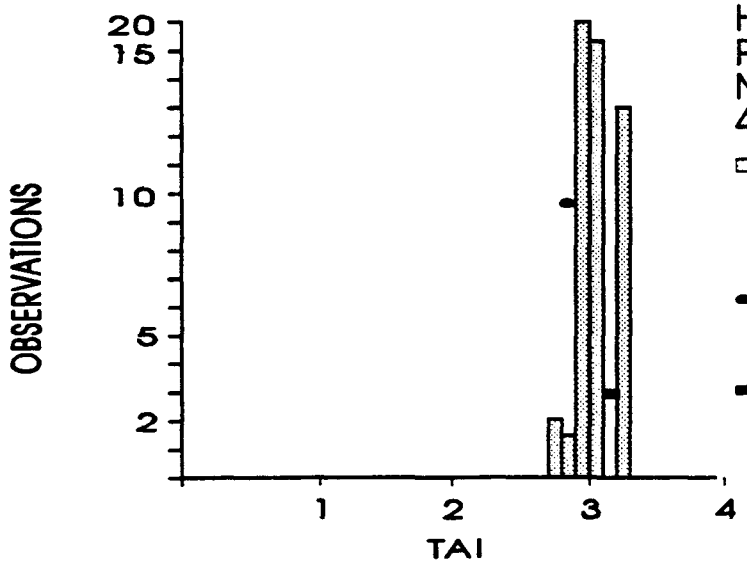


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
4205m

Palynomorphs
TAI = 2.93(0.05)
Flu = 4.0 - black
Sum = 69

Zooclasts
TAI = 2.86
Flu = 4.0 - black

Amorphous matter
TAI = 3.10
Flu = 4.0 - black

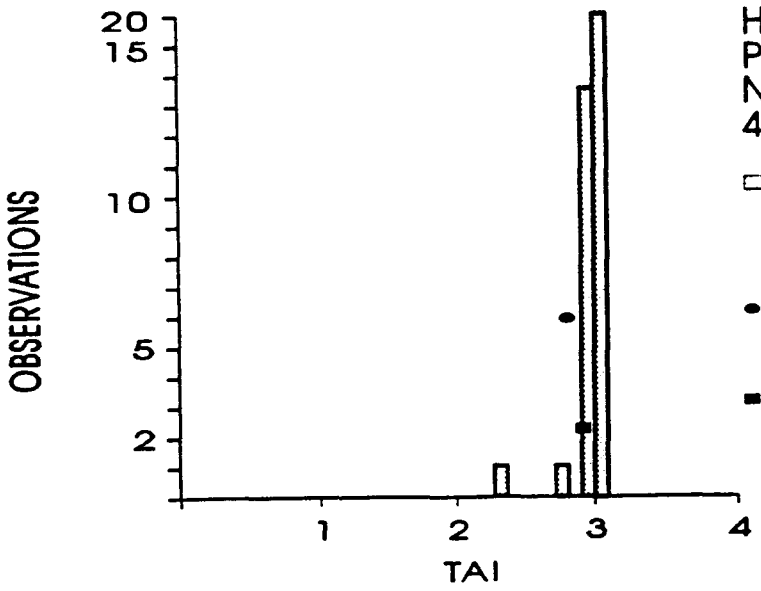


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
4240m

Palynomorphs
TAI = 2.96(0.12)
Flu = 4.0 - black
Sum = 65

Zooclasts
TAI = 2.97
Flu = 4.0 - black

Amorphous matter
TAI = 3.10
Flu = 4.0 - black

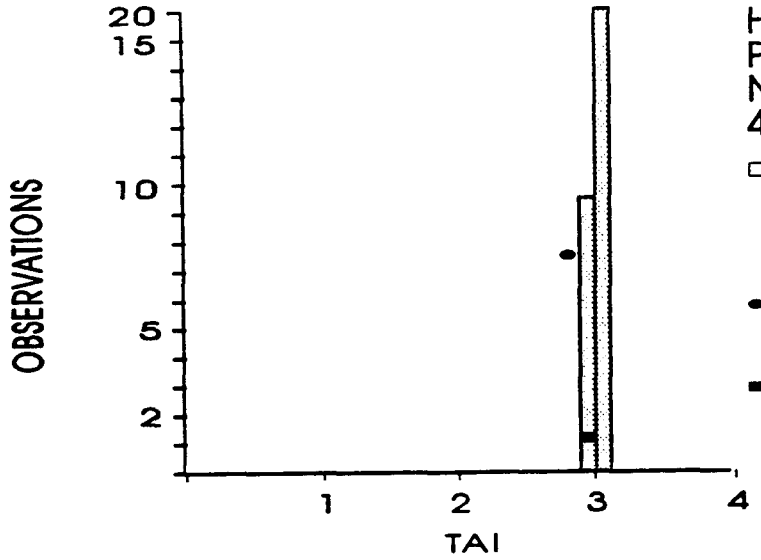


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
4065m

□Palynomorphs
TAI = 2.95(0.11)
Flu = 3.2 - black
Sum = 46

● Zooclasts
TAI = 2.83
Flu = 4.0 - black

▬ Amorphous matter
TAI = 2.95
Flu = 4.0 - black

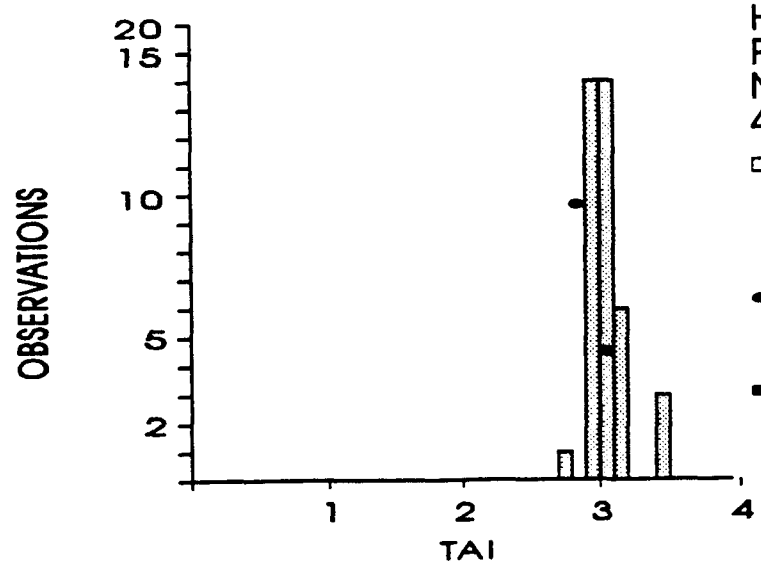


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
4105m

□Palynomorphs
TAI = 2.98(0.03)
Flu = 4.0 - black
Sum = 56

● Zooclasts
TAI = 2.75
Flu = 4.0 - black

▬ Amorphous matter
TAI = 2.90
Flu = 4.0 - black



Hunt-Pan Canadian #1
Port au Port,
Newfoundland
4140m

□Palynomorphs
TAI = 3.00(0.14)
Flu = 4.0 - black
Sum = 37

● Zooclasts
TAI = 2.73
Flu = 4.0 - black

▬ Amorphous matter
TAI = 3.00
Flu = 4.0 - black

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REPORT TO HUNT OIL CO. - PAN CANADIAN PETROLEUM LTD.

BIOSTRATIGRAPHY AND THERMAL MATURITY OF STRATA IN HUNT - PAN CANADIAN PORT AU PORT WELL # 1

APPENDIX

Elliott T. Burden and S. Henry Williams

1995

CONFIDENTIAL

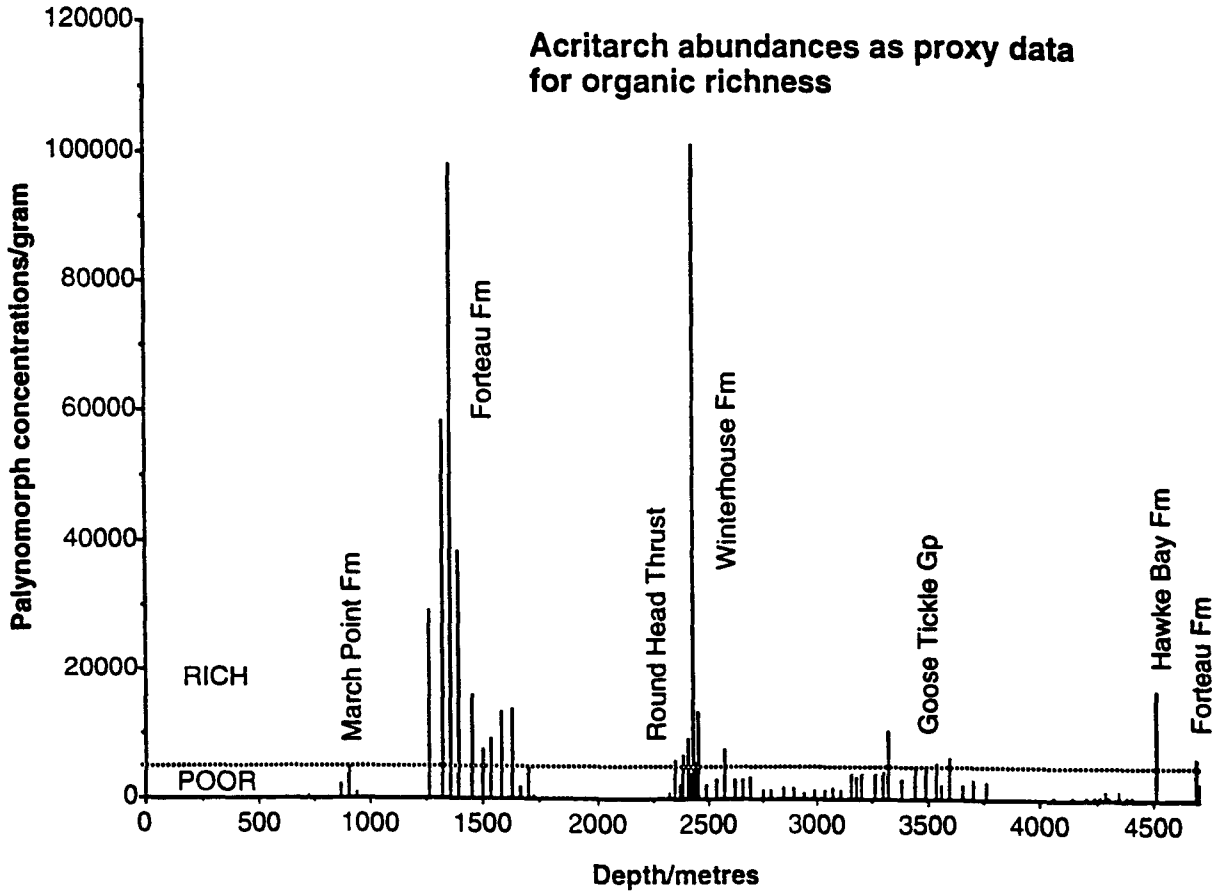


Figure 1. Acritarch abundances in Port au Port #1

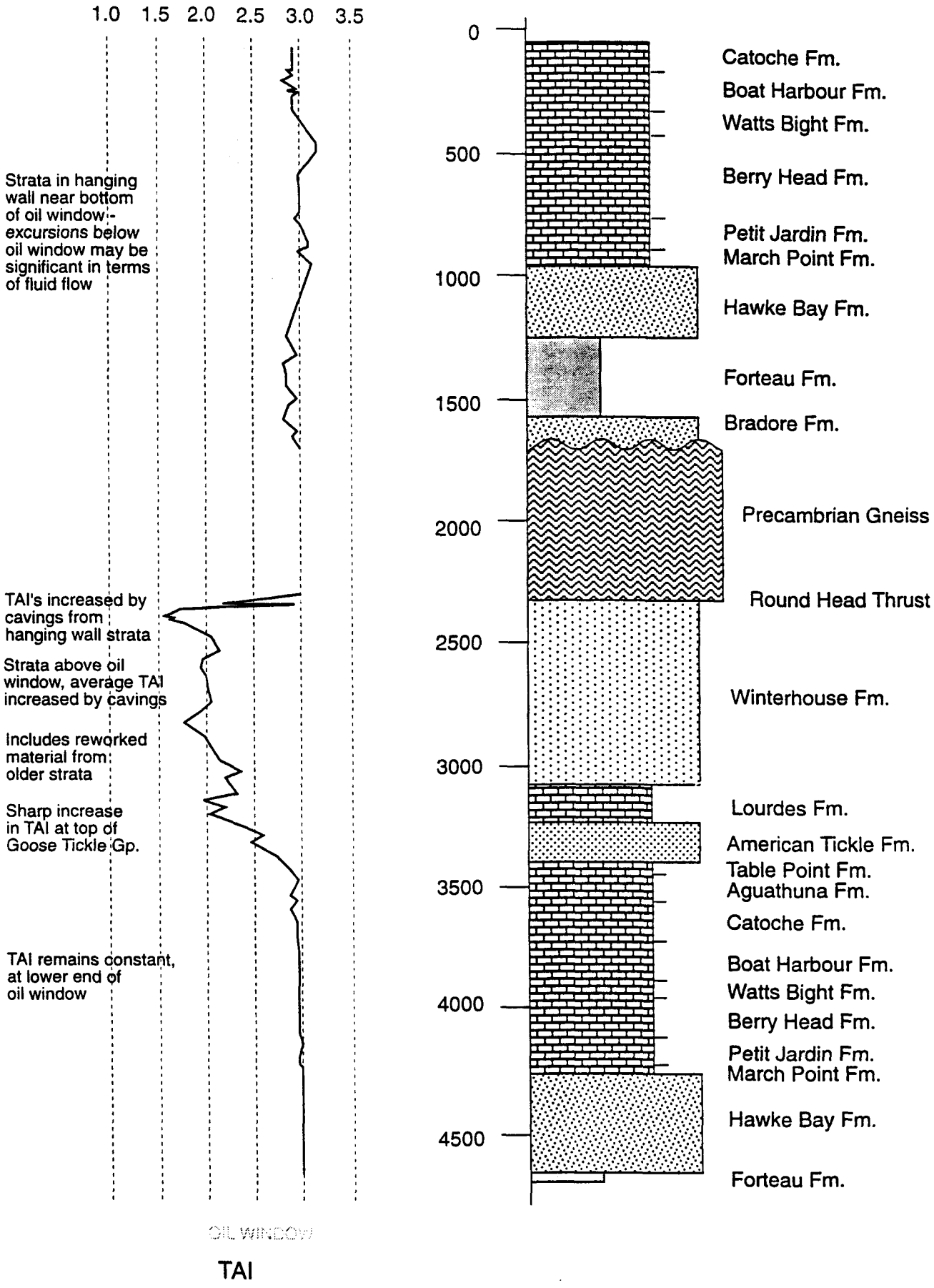


Figure 4. TAI values plotted against well depth and stratigraphy

HUNT-PAN CANADIAN PETROLEUM: PORT AU PORT #1
APPENDIX
PALYNOLOGY - SAMPLES 4260 - 4699 m

Petit Jardin Formation

4260 m

Material:	Rare acritarchs and zooclasts; rare pyrite
Identifiable taxa:	Sphaeromorphs clusters *Goniomorpha?* sp. *Corollasphaeridium?* sp. *Pterospermella* cluster
Concentration:	278 grains/g
TAI:	2.70(.46) on acritarchs; 2.95 on zooclasts; black - 4.00 fluorescence.
Maturity:	Mature - borderline overmature
Notes:	Cavings with TAI of 1.6 are skewing the statistics. True TAI likely about 2.9 or 3.0. Fossils similar to taxa identified at 265 and 725 m.

4280 m

Material:	Rare acritarchs and amorphous matter; abundant pyrite
Identifiable taxa:	Sphaeromorphs - including large, dark, granular spheres
Concentration:	1080 grains/g
TAI:	3.20 on amorphous material; 3.09(.11) on acritarchs; black - 4.00 fluorescence.
Maturity:	Overmature
Notes:	

4300 m

Material:	Rare acritarchs and amorphous masses and granules; abundant pyrite
Identifiable taxa:	Sphaeromorphs - including large, dark, granular spheres clusters
Concentration:	606 grains/g
TAI:	3.10 on amorphous material; 2.91(.10) on acritarchs; black - 4.00 fluorescence.
Maturity:	Overmature
Notes:	

4340 m

Material:	Rare acritarchs and amorphous granules
Identifiable taxa:	Sphaeromorphs - including large, dark, granular spheres *Cymatiosphaera* sp.
Concentration:	1150 grains/g
TAI:	3.10 on amorphous material; 2.97(.11) on acritarchs; black - 4.00 fluorescence.
Maturity:	Mature - borderline overmature
Notes:	

4380 m

Material:	Rare acritarchs and abundant amorphous granules; abundant pyrite
Identifiable taxa:	Sphaeromorphs - including large, dark, granular spheres
Concentration:	564 grains/g
TAI:	3.10 on amorphous material; 3.09(.10) on acritarchs; black - 4.00 fluorescence.
Maturity:	Overmature
Notes:	

March Point Formation
4400 m

Material:	Rare acritarchs and abundant pyrite
Identifiable taxa:	Sphaeromorphs - including large, dark, granular spheres Herkomorphs clusters
Concentration:	387 grains/g
TAI:	2.96(.11) on acritarchs; black - 4.00 fluorescence.
Maturity:	Mature - borderline overmature
Notes:	

Hawke Bay Formation
4505 m

Material:	Abundant amorphous granules and masses; abundant acritarchs and common pyrite
Identifiable taxa:	Sphaeromorphs *Micrhystridium* sp. clusters filaments
Concentration:	16,515 grains/g
TAI:	3.10 on amorphous material; 2.91(.11) on acritarchs; black - 4.00 fluorescence.
Maturity:	Mature - borderline overmature
Notes:	

Forteau Formation
4690 m

Material: Common amorphous granules; abundant acritarchs and common pyrite
Identifiable taxa: Sphaeromorphs
Acrum sp.
Retisphaeridium dichamerum
clusters
filaments
Concentration: 6410 grains/g
TAI: 3.00 on amorphous material; 2.93(.10) on acritarchs; black - 4.00 fluorescence.
Maturity: Mature - borderline overmature
Notes:

4699 m

Material: Rare amorphous granules; abundant acritarchs and common pyrite
Identifiable taxa: Sphaeromorphs
Retisphaeridium dichamerum
clusters
filaments
Concentration: 2599 grains/g
TAI: 3.00 on amorphous material; 3.03(.10) on acritarchs; black - 4.00 fluorescence.
Maturity: Overmature
Notes:

PETIT JARDIN FORMATION - BIG COVE MEMBER (BELOW ROUND HEAD THRUST)
FOSSIL LOG

DEPTH metres	FOSSIL SAMPLE	YIELD	TAI	FLUOR	CAI	MATURITY	AGE	LITHOSTRATIGRAPHY
4225								
4230								
4235								
4240	p	x	2.96	4		M(O)		
4245								
4250								
4252								
4255								
4260	p	x	2.95	4		M(O)		

PETIT JARDIN FORMATION - CAMPBELL'S MEMBER (BELOW ROUND HEAD THRUST)
FOSSIL LOG

DEPTH metres	FOSSIL SAMPLE	YIELD	TAI	FLUOR	CAI	MATURITY	AGE	LITHOSTRATIGRAPHY
4265								
4270								
4275								
4280	p	x	3.10	4		M(O)		
4285								
4290								
4295								
4300	p	x	3.00	4		M(O)		
4305								
4310								
4315								
4320								
4325								
4330								
4335								
4340	p	x	3.00	4		M(O)		
4345								

PETIT JARDIN FORMATION - CAPE ANN MEMBER (BELOW ROUND HEAD THRUST)
FOSSIL LOG

DEPTH metres	FOSSIL SAMPLE	YIELD	TAI	FLUOR	CAI	MATURITY	AGE	LITHOSTRATIGRAPHY
4350								
4355								
4360								
4365								
4370								
4375								
4380	p	x	3.10	4		M(O)		

MARCH POINT FORMATION (BELOW ROUND HEAD THRUST)
FOSSIL LOG

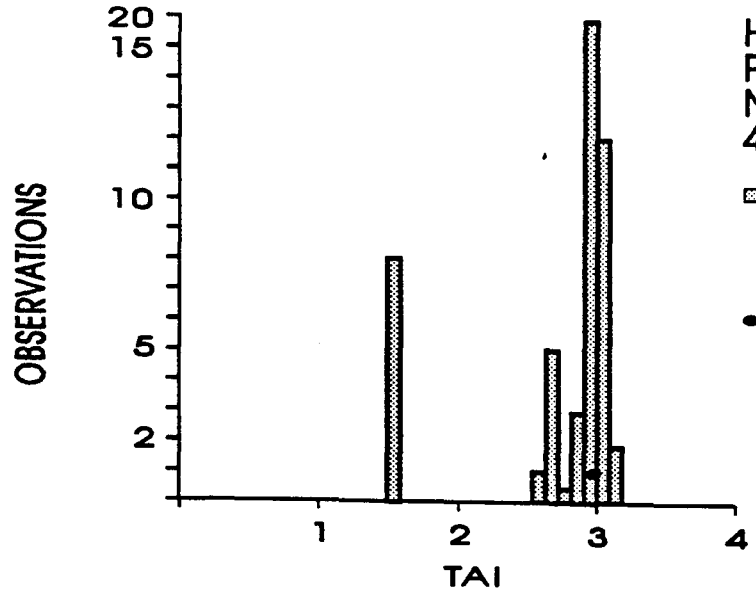
DEPTH metres	FOSSIL SAMPLE	YIELD	TAI	FLUOR	CAI	MATURITY	AGE	LITHOSTRATIGRAPHY
4385								
4390								
4395								
4400	p	x	2.96	4		M(O)		
4405								
4410								
4415								
4420								
4425								
4430								
4435								

HAWKE BAY FORMATION (BELOW ROUND HEAD THRUST)
FOSSIL LOG

DEPTH metres	FOSSIL SAMPLE	YIELD	TAI	FLUOR	CAI	MATURITY	AGE	LITHOSTRATIGRAPHY
4440								
⇑								
4505	p	xxx	3.00	4		M(O)		
⇓								
4685								

FORTEAU FORMATION (BELOW ROUND HEAD THRUST)
FOSSIL LOG

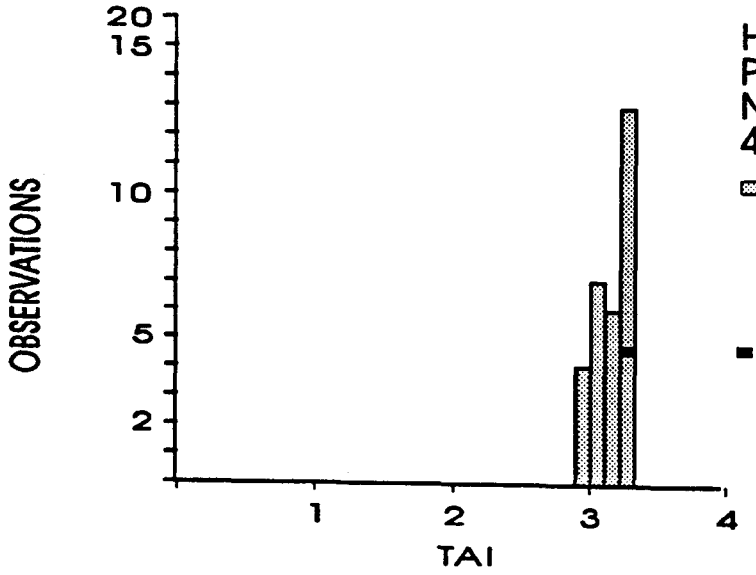
DEPTH metres	FOSSIL SAMPLE	YIELD	TAI	FLUOR	CAI	MATURITY	AGE	LITHOSTRATIGRAPHY
4690	p	xx	2.95	4		M(O)		
4695								
4699	p	x	3.00	4		M(O)		



Hunt-Pan Canadian #1
Port au Port,
Newfoundland
4260m

Palynomorphs
TAI = 2.70(0.46)
Flu = 4.0 - black
Sum = 58

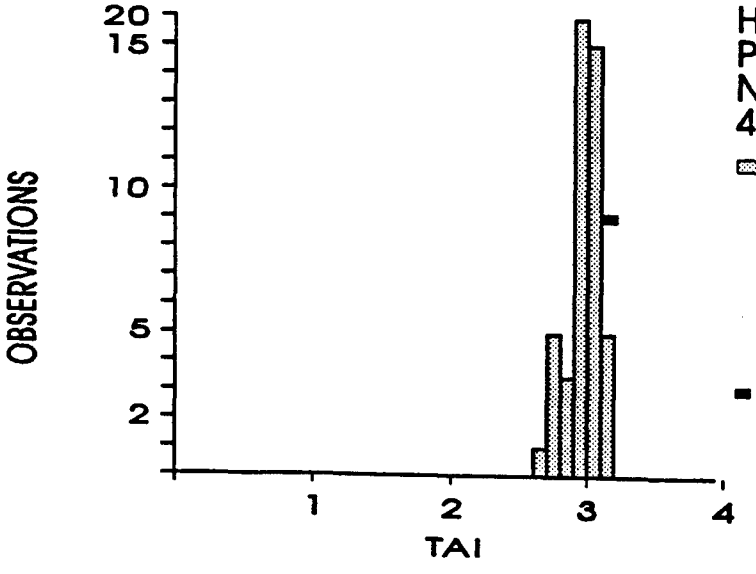
Zooclasts
TAI = 2.95
Flu = 4.0 - black



Hunt-Pan Canadian #1
Port au Port,
Newfoundland
4280m

Palynomorphs
TAI = 3.09 (0.11)
Flu = 4.0 - black
Sum = 30

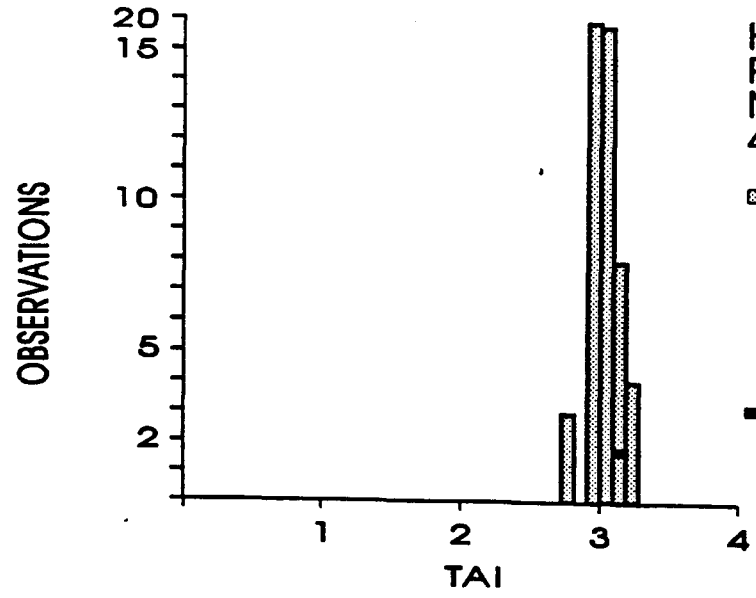
Amorphous matter
TAI = 3.20
Flu = 4.0 - black



Hunt-Pan Canadian #1
Port au Port,
Newfoundland
4300m

Palynomorphs
TAI = 2.91(0.10)
Flu = 4.0 - black
Sum = 61

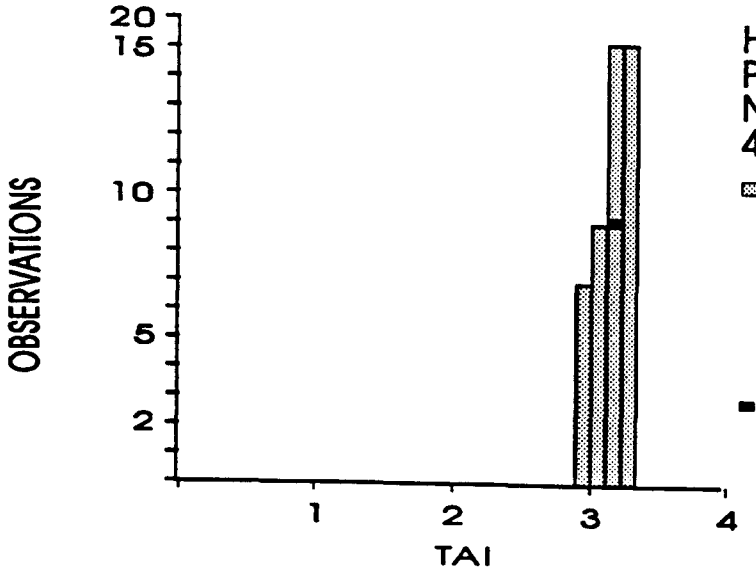
Amorphous matter
TAI = 3.10
Flu = 4.0 - black



Hunt-Pan Canadian #1
Port au Port,
Newfoundland
4340m

Palynomorphs
TAI = 2.97(0.11)
Flu = 4.0 - black
Sum = 56

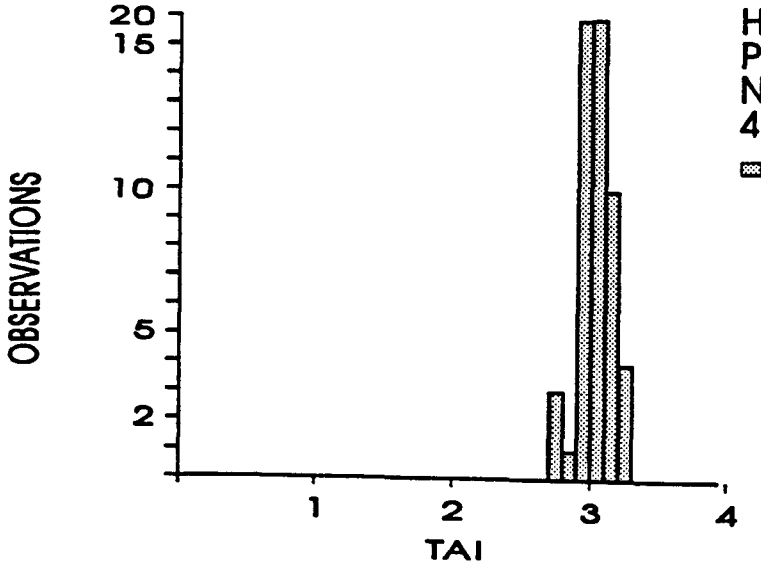
Amorphous matter
TAI = 3.10
Flu = 4.0 - black



Hunt-Pan Canadian #1
Port au Port,
Newfoundland
4380m

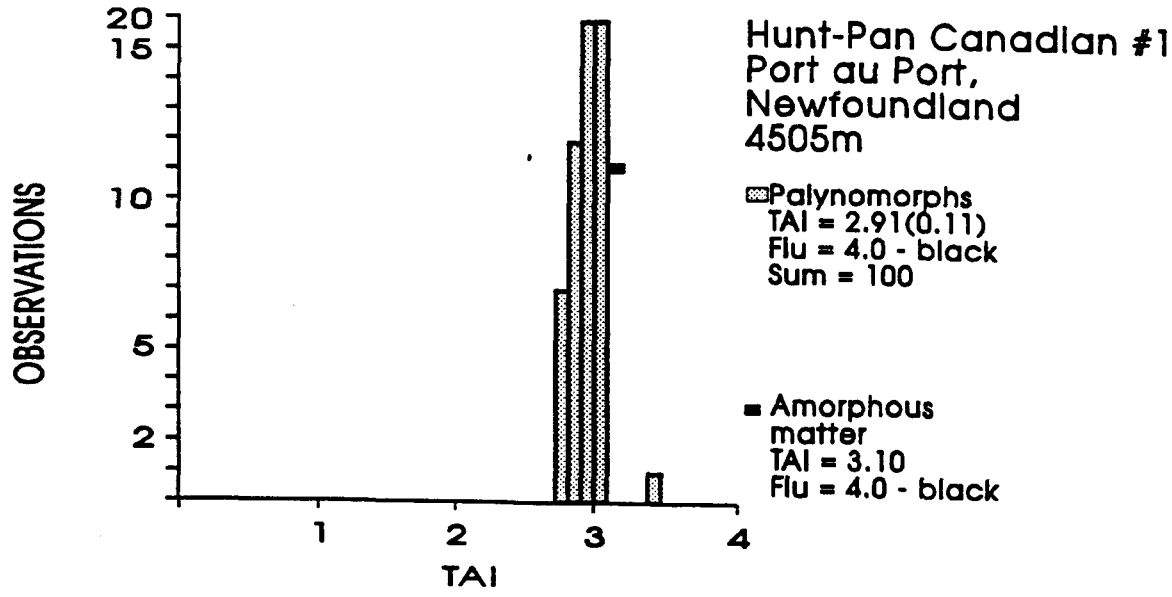
Palynomorphs
TAI = 3.09(0.10)
Flu = 4.0 - black
Sum = 48

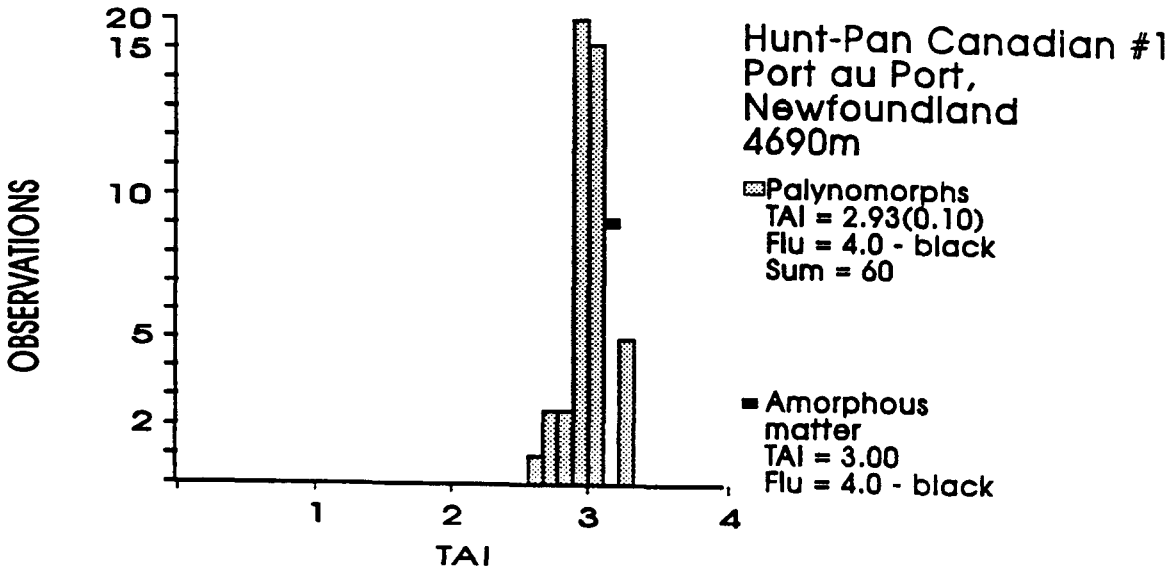
Amorphous matter
TAI = 3.10
Flu = 4.0 - black

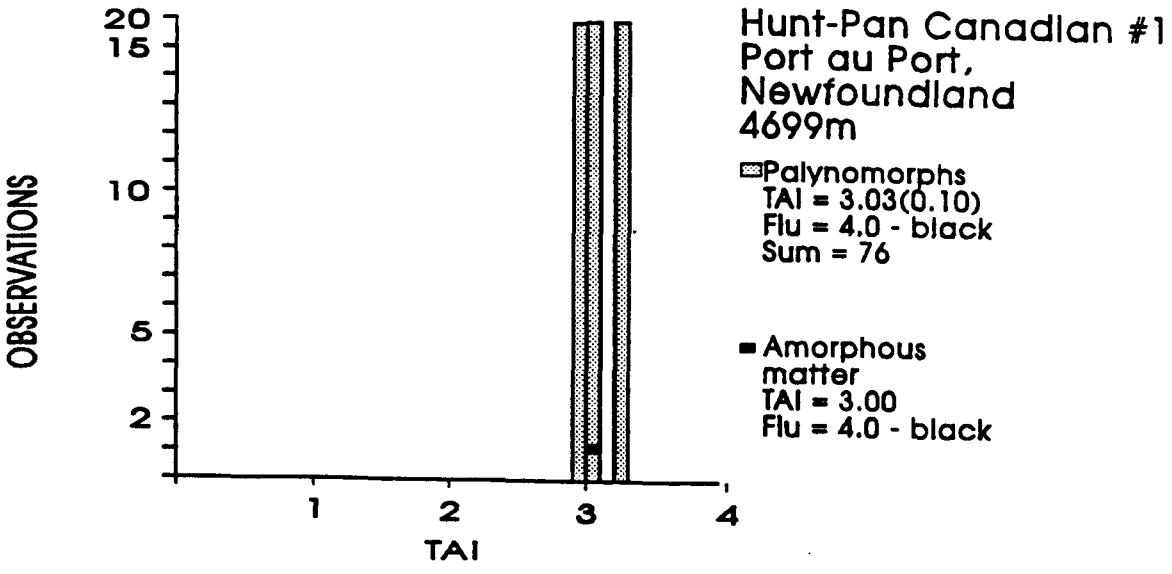


Hunt-Pan Canadian #1
Port au Port,
Newfoundland
4400m

Palynomorphs
TAI = 2.96(0.11)
Flu = 4.0 - black
Sum = 75


OBSERVATIONS
20
15
10
5
2
1
2
3
4
TAI
Hunt-Pan Canadian #1
Port au Port,
Newfoundland
4505m
Palynomorphs
TAI = 2.91(0.11)
Flu = 4.0 - black
Sum = 100
Amorphous
matter
TAI = 3.10
Flu = 4.0 - black


OBSERVATIONS
20
15
10
5
2
1
2
3
4
TAI
Hunt-Pan Canadian #1
Port au Port,
Newfoundland
4690m
Palynomorphs
TAI = 2.93(0.10)
Flu = 4.0 - black
Sum = 60
Amorphous
matter
TAI = 3.00
Flu = 4.0 - black


OBSERVATIONS
20
15
10
5
2
1
2
3
4
TAI
Hunt-Pan Canadian #1
Port au Port,
Newfoundland
4699m
Palynomorphs
TAI = 3.03(0.10)
Flu = 4.0 - black
Sum = 76
Amorphous
matter
TAI = 3.00
Flu = 4.0 - black

FINAL WELL REPORT

NHOC/PanCanadian Port au Port No. 1

APPENDIX IV

GEOPHYSICAL TEST DATA

IV -2 Rock-Eval/TOC Log Summary ..... Martin Fowler

NEWFOUNDLAND HUNT OIL COMPANY INC.

JULY 1996

Natural Resources Canada

Geological Survey of Canada (Calgary)
3303-33rd Street N.W., Calgary, Alberta T2L 2A7

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October 30th 1995

Here is the complete data set for the Hunt PCP Port-au-Port #1 well which supersedes the earlier "complete" data which did not include the last set of samples that arrived at GSC-Calgary considerably later than the others. The Rock-Eval/TOC logs are in two different scales, one of which should be compatible with downhole log scales. All parameters are as defined previously. A report on hydrocarbons recovered from this well was provided in May 1995.

TOC contents are generally very low for all the samples from this well and there is no evidence that source rock intervals were encountered. Contamination by drilling additives (woody material) is believed to be responsible for the higher TOC contents around 3500 m. Hand-picked shale samples from this interval have low TOC contents (less than 0.5%) and hence cannot be the source of the hydrocarbons that were encountered. The relatively high Production Indices of the hand-picked shale cuttings suggest they are stained by migrated hydrocarbons to some degree.

In the upper and lower parts of the well, no useful Tmax values were obtained, probably because of the very low TOC content of these samples. Tmax values show a good trend with depth from about 2400 m to 3800 m, suggesting they reflect the maturity of the organic matter over this depth range. At 2400 m the organic matter appears to be approaching the middle of the oil window. At 3600 m the organic matter is almost at the end of the oil window and near the start of the wet gas generation zone.

Martin Fowler.
MARTIN FOWLER

Hunt PCP Port-Au-Port #1

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
40	0.01	1.00	0.01	0	0.01	0.00	0.08	0	800
50	0.01	0.00	0.01	0	0.00	0.01	0.02	100	200
60	0.01	0.50	0.02	0	0.01	0.01	0.01	100	100
70	0.01	0.00	0.01	0	0.00	0.01	0.01	100	100
80	0.01	0.00	0.02	0	0.00	0.02	0.01	200	100
90	0.01	0.00	0.01	0	0.00	0.01	0.01	100	100
100	0.01	0.00	0.01	0	0.00	0.01	0.01	100	100
110	0.01	0.00	0.01	0	0.00	0.01	0.02	100	200
120	0.01	0.00	0.01	0	0.00	0.01	0.01	100	100
130	0.01	0.00	0.01	0	0.00	0.01	0.01	100	100
140	0.05	0.00	0.01	0	0.00	0.01	0.01	20	20
150	0.01	0.70	0.10	414	0.07	0.03	0.07	300	700
160	0.01	0.33	0.03	0	0.01	0.02	0.12	200	1200
170	0.02	0.33	0.03	416	0.01	0.02	0.09	100	450
180	0.01	0.00	0.01	0	0.00	0.01	0.05	100	500
190	0.01	0.33	0.03	0	0.01	0.02	0.04	200	400
200	0.06	0.29	0.07	337	0.02	0.05	0.08	83	133
210	0.05	0.33	0.03	300	0.01	0.02	0.03	40	60
220	0.01	0.00	0.01	0	0.00	0.01	0.01	100	100
230	0.01	0.00	0.01	0	0.00	0.01	0.03	100	300
240	0.01	1.00	0.01	0	0.01	0.00	0.07	0	700
250	0.01	0.25	0.04	0	0.01	0.03	0.03	300	300
260	0.02	0.00	0.01	0	0.00	0.01	0.01	50	50
270	0.02	0.00	0.01	0	0.00	0.01	0.01	50	50
280	0.02	0.00	0.01	0	0.00	0.01	0.01	50	50
290	0.01	0.00	0.01	0	0.00	0.01	0.01	100	100
300	0.01	0.00	0.01	0	0.00	0.01	0.01	100	100
310	0.02	0.00	0.03	418	0.00	0.03	0.07	150	350
320	0.01	1.00	0.03	0	0.03	0.00	0.07	0	700
330	0.01	0.00	0.01	0	0.00	0.01	0.05	100	500
340	0.01	0.00	0.01	0	0.00	0.01	0.03	100	300
350	0.01	0.00	0.01	0	0.00	0.01	0.01	100	100
360	0.01	0.00	0.01	0	0.00	0.01	0.04	100	400
370	0.01	1.00	0.01	0	0.01	0.00	0.07	0	700
380	0.01	0.00	0.01	0	0.00	0.01	0.04	100	400
390	0.01	0.00	0.01	408	0.00	0.01	0.08	100	800
400	0.01	0.00	0.01	0	0.00	0.01	0.09	100	900
410	0.02	0.00	0.01	0	0.00	0.01	0.06	50	300
420	0.01	0.00	0.01	0	0.00	0.01	0.10	100	1000
430	0.01	0.00	0.01	0	0.00	0.01	0.07	100	700
440	0.02	0.00	0.01	0	0.00	0.01	0.03	50	150
450	0.02	0.00	0.02	333	0.00	0.02	0.03	100	150
460	0.08	0.00	0.02	0	0.00	0.02	0.06	25	75
470	0.07	0.00	0.02	0	0.00	0.02	0.10	28	142
480	0.04	0.00	0.01	0	0.00	0.01	0.03	25	75
490	0.03	0.00	0.01	407	0.00	0.01	0.11	33	366
500	0.02	0.00	0.01	0	0.00	0.01	0.03	50	150
510	0.03	0.00	0.01	0	0.00	0.01	0.01	33	33
520	0.03	0.00	0.01	0	0.00	0.01	0.01	33	33
530	0.04	0.00	0.01	0	0.00	0.01	0.01	25	25

Hunt PCP Port-Au-Port #1

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
540	0.07	0.00	0.01	0	0.00	0.01	0.02	14	28
550	0.07	0.00	0.01	0	0.00	0.01	0.02	14	28
560	0.11	0.00	0.02	0	0.00	0.02	0.06	18	54
570	0.05	0.00	0.01	0	0.00	0.01	0.02	20	40
580	0.08	0.00	0.01	331	0.00	0.01	0.06	12	75
590	0.08	0.33	0.03	330	0.01	0.02	0.06	25	75
600	0.03	0.00	0.06	385	0.00	0.06	0.07	200	233
610	0.03	0.00	0.01	0	0.00	0.01	0.01	33	33
620	0.11	0.00	0.02	340	0.00	0.02	0.03	18	27
630	0.04	0.00	0.01	0	0.00	0.01	0.01	25	25
640	0.04	0.00	0.01	0	0.00	0.01	0.05	25	125
650	0.05	0.00	0.01	0	0.00	0.01	0.06	20	120
660	0.07	0.00	0.01	0	0.00	0.01	0.05	14	71
670	0.09	0.00	0.01	0	0.00	0.01	0.03	11	33
680	0.03	0.00	0.01	0	0.00	0.01	0.04	33	133
690	0.14	0.00	0.01	0	0.00	0.01	0.04	7	28
700	0.10	0.00	0.01	0	0.00	0.01	0.02	10	20
710	0.05	0.00	0.01	0	0.00	0.01	0.01	20	20
720	0.03	0.00	0.01	0	0.00	0.01	0.08	33	266
730	0.04	0.00	0.01	0	0.00	0.01	0.03	25	75
740	0.01	0.00	0.01	0	0.00	0.01	0.01	100	100
750	0.04	0.00	0.02	0	0.00	0.02	0.02	50	50
760	0.09	0.00	0.01	0	0.00	0.01	0.03	11	33
770	0.04	0.00	0.01	0	0.00	0.01	0.04	25	100
780	0.07	0.00	0.01	0	0.00	0.01	0.04	14	57
790	0.05	0.00	0.01	0	0.00	0.01	0.04	20	80
800	0.04	0.00	0.01	0	0.00	0.01	0.04	25	100
810	0.04	0.00	0.01	0	0.00	0.01	0.01	25	25
820	0.03	0.00	0.01	0	0.00	0.01	0.01	33	33
830	0.06	0.00	0.01	0	0.00	0.01	0.01	16	16
840	0.07	0.00	0.01	0	0.00	0.01	0.01	14	14
850	0.02	0.00	0.01	0	0.00	0.01	0.02	50	100
860	0.04	0.00	0.01	0	0.00	0.01	0.05	25	125
870	0.07	0.00	0.01	0	0.00	0.01	0.07	14	100
880	0.03	0.00	0.01	0	0.00	0.01	0.01	33	33
890	0.08	0.00	0.01	0	0.00	0.01	0.04	12	50
900	0.04	0.00	0.01	376	0.00	0.01	0.01	25	25
910	0.03	0.00	0.01	0	0.00	0.01	0.01	33	33
920	0.03	0.00	0.01	0	0.00	0.01	0.01	33	33
930	0.02	0.00	0.01	0	0.00	0.01	0.01	50	50
940	0.08	0.00	0.12	353	0.00	0.12	0.01	150	12
950	0.07	0.00	0.02	483	0.00	0.02	0.03	28	42
960	0.05	0.00	0.04	354	0.00	0.04	0.01	80	20
970	0.01	0.00	0.01	0	0.00	0.01	0.01	100	100
980	0.06	0.00	0.02	426	0.00	0.02	0.01	33	16
990	0.04	0.05	0.20	348	0.01	0.19	0.01	475	25
1000	0.08	0.00	0.04	496	0.00	0.04	0.06	50	75
1010	0.01	0.11	0.09	376	0.01	0.08	0.01	800	100
1020	0.01	0.00	0.05	555	0.00	0.05	0.01	500	100
1030	0.01	0.08	0.12	504	0.01	0.11	0.01	1100	100

Hunt PCP Port-Au-Port #1

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
1040	0.01	0.13	0.08	533	0.01	0.07	0.01	700	100
1050	0.01	0.00	0.03	435	0.00	0.03	0.01	300	100
1060	0.01	0.00	0.10	559	0.00	0.10	0.01	1000	100
1070	0.06	0.32	0.22	344	0.07	0.15	0.01	250	16
1080	0.02	0.45	0.29	440	0.13	0.16	0.01	800	50
1090	0.03	0.16	0.44	337	0.07	0.37	0.01	1233	33
1100	0.03	0.43	0.42	327	0.18	0.24	0.01	800	33
1110	0.01	0.00	0.04	339	0.00	0.04	0.01	400	100
1120	0.01	0.13	0.15	553	0.02	0.13	0.01	1300	100
1130	0.01	0.00	0.01	323	0.00	0.01	0.01	100	100
1160	0.04	0.00	0.03	335	0.00	0.03	0.43	75	1075
1170	0.05	0.14	0.07	407	0.01	0.06	0.45	120	900
1180	0.01	0.00	0.01	0	0.00	0.01	0.04	100	400
1190	0.06	0.00	0.23	424	0.00	0.23	0.23	383	383
1200	0.01	0.00	0.01	0	0.00	0.01	0.11	100	1100
1210	0.01	0.00	0.01	0	0.00	0.01	0.11	100	1100
1230	0.01	0.50	0.02	382	0.01	0.01	0.01	100	100
1250	0.19	0.00	0.16	344	0.00	0.16	0.64	84	336
1270	0.01	0.00	0.01	353	0.00	0.01	0.03	100	300
1290	0.01	0.00	0.01	0	0.00	0.01	0.01	100	100
1310	0.02	0.17	0.06	346	0.01	0.05	0.01	250	50
1330	0.03	0.00	0.03	335	0.00	0.03	0.01	100	33
1350	0.05	0.00	0.01	329	0.00	0.01	0.01	20	20
1370	0.01	0.00	0.01	0	0.00	0.01	0.01	100	100
1390	0.02	0.00	0.01	0	0.00	0.01	0.01	50	50
1410	0.01	0.00	0.01	0	0.00	0.01	0.02	100	200
1430	0.03	0.00	0.03	329	0.00	0.03	0.05	100	166
1450	0.04	0.33	0.03	0	0.01	0.02	0.04	50	100
1470	0.05	0.00	0.03	0	0.00	0.03	0.20	60	400
1490	0.04	0.00	0.03	0	0.00	0.03	0.14	75	350
1510	0.03	0.00	0.02	0	0.00	0.02	0.15	66	500
1530	0.03	0.00	0.01	0	0.00	0.01	0.03	33	100
1550	0.01	0.00	0.01	0	0.00	0.01	0.12	100	1200
1570	0.19	0.12	0.52	436	0.06	0.46	0.33	242	173
1590	0.03	0.00	0.08	351	0.00	0.08	0.06	266	200
1610	0.01	0.00	0.09	343	0.00	0.09	0.01	900	100
1630	0.04	0.00	0.13	387	0.00	0.13	0.10	325	250
1650	0.05	0.10	0.29	380	0.03	0.26	0.13	520	260
1830	0.02	0.00	0.09	425	0.00	0.09	0.20	450	1000
1850	0.01	0.25	0.12	429	0.03	0.09	0.07	900	700
1870	0.01	0.00	0.05	460	0.00	0.05	0.01	500	100
1890	0.01	0.09	0.11	422	0.01	0.10	0.01	1000	100
1910	0.01	0.00	0.02	442	0.00	0.02	0.02	200	200
1930	0.01	0.32	0.19	369	0.06	0.13	0.09	1300	900
1950	0.01	0.00	0.01	444	0.00	0.01	0.03	100	300
1970	0.01	0.00	0.01	0	0.00	0.01	0.07	100	700
1990	0.01	0.00	0.03	409	0.00	0.03	0.06	300	600
2010	0.01	0.00	0.04	508	0.00	0.04	0.01	400	100
2030	0.01	0.00	0.02	551	0.00	0.02	0.01	200	100
2050	0.01	0.00	0.06	584	0.00	0.06	0.01	600	100

Hunt PCP Port-Au-Port #1

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
2070	0.01	0.00	0.05	586	0.00	0.05	0.03	500	300
2090	0.01	0.00	0.01	0	0.00	0.01	0.06	100	600
2110	0.01	0.00	0.03	469	0.00	0.03	0.02	300	200
2130	0.01	0.00	0.04	464	0.00	0.04	0.01	400	100
2150	0.01	0.00	0.04	582	0.00	0.04	0.03	400	300
2170	0.01	0.00	0.05	560	0.00	0.05	0.03	500	300
2180	0.01	0.00	0.04	584	0.00	0.04	0.02	400	200
2190	0.01	0.00	0.06	572	0.00	0.06	0.01	600	100
2200	0.01	0.00	0.03	507	0.00	0.03	0.01	300	100
2210	0.13	0.07	0.14	497	0.01	0.13	0.50	100	384
2220	0.02	0.00	0.03	407	0.00	0.03	0.05	150	250
2230	0.01	0.00	0.04	476	0.00	0.04	0.01	400	100
2240	0.01	0.00	0.02	415	0.00	0.02	0.05	200	500
2250	0.01	0.00	0.02	412	0.00	0.02	0.01	200	100
2260	0.01	0.00	0.04	455	0.00	0.04	0.07	400	700
2270	0.01	0.00	0.04	515	0.00	0.04	0.06	400	600
2280	0.01	0.00	0.02	509	0.00	0.02	0.03	200	300
2290	0.01	0.00	0.03	441	0.00	0.03	0.01	300	100
2300	0.01	0.00	0.06	543	0.00	0.06	0.04	600	400
2310	0.01	0.00	0.07	563	0.00	0.07	0.01	700	100
2320	0.01	0.00	0.01	389	0.00	0.01	0.13	100	1300
2330	0.01	0.00	0.01	0	0.00	0.01	0.11	100	1100
2340	0.01	0.00	0.01	0	0.00	0.01	0.07	100	700
2350	0.01	0.00	0.02	336	0.00	0.02	0.12	200	1200
2360	0.01	0.00	0.01	364	0.00	0.01	0.09	100	900
2370	0.04	0.00	0.08	437	0.00	0.08	0.13	200	325
2380	0.07	0.13	0.16	442	0.02	0.14	0.07	200	100
2390	0.07	0.13	0.16	442	0.02	0.14	0.07	200	100
2400	0.09	0.08	0.12	441	0.01	0.11	0.11	122	122
2410	0.08	0.14	0.14	441	0.02	0.12	0.11	150	137
2420	0.06	0.18	0.11	444	0.02	0.09	0.05	150	83
2430	0.15	0.20	0.25	444	0.05	0.20	0.10	133	66
2440	0.15	0.17	0.12	438	0.02	0.10	0.13	66	86
2450	0.08	0.17	0.12	438	0.02	0.10	0.04	125	50
2460	0.06	0.00	0.07	438	0.00	0.07	0.04	116	66
2470	0.11	0.06	0.16	438	0.01	0.15	0.06	136	54
2480	0.09	0.00	0.10	436	0.00	0.10	0.06	111	66
2490	0.05	0.00	0.03	436	0.00	0.03	0.07	60	140
2500	0.07	0.08	0.12	440	0.01	0.11	0.01	157	14
2510	0.07	0.11	0.18	398	0.02	0.16	0.01	228	14
2520	0.08	0.00	0.10	439	0.00	0.10	0.14	125	175
2530	0.08	0.00	0.13	441	0.00	0.13	0.01	162	12
2540	0.06	0.00	0.08	440	0.00	0.08	0.01	133	16
2550	0.07	0.00	0.09	441	0.00	0.09	0.08	128	114
2560	0.05	0.00	0.04	437	0.00	0.04	0.02	80	40
2570	0.07	0.10	0.10	438	0.01	0.09	0.09	128	128
2580	0.05	0.00	0.06	432	0.00	0.06	0.06	120	120
2590	0.09	0.06	0.16	440	0.01	0.15	0.02	166	22
2600	0.10	0.06	0.17	434	0.01	0.16	0.06	160	60
2610	0.28	0.10	0.21	434	0.02	0.19	0.25	67	89

Hunt PCP Port-Au-Port #1

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
2620	0.68	0.11	0.71	381	0.08	0.63	1.16	92	170
2630	0.09	0.00	0.08	439	0.00	0.08	0.02	88	22
2640	0.08	0.14	0.07	441	0.01	0.06	0.08	75	100
2650	0.09	0.13	0.08	439	0.01	0.07	0.08	77	88
2660	0.14	0.22	0.18	440	0.04	0.14	0.06	100	42
2670	0.07	0.25	0.08	441	0.02	0.06	0.01	85	14
2680	0.06	0.17	0.06	440	0.01	0.05	0.06	83	100
2690	0.17	0.25	0.20	437	0.05	0.15	0.16	88	94
2700	0.25	0.19	0.21	434	0.04	0.17	0.22	68	88
2710	0.04	0.00	0.05	437	0.00	0.05	0.05	125	125
2720	0.08	0.00	0.07	435	0.00	0.07	0.13	87	162
2730	0.07	0.43	0.28	385	0.12	0.16	0.01	228	14
2740	0.06	0.00	0.01	0	0.00	0.01	0.18	16	300
2750	0.13	0.25	0.08	421	0.02	0.06	1.24	46	953
2760	0.23	0.15	0.34	433	0.05	0.29	0.31	126	134
2770	0.21	0.20	0.20	431	0.04	0.16	0.40	76	190
2780	0.25	0.22	0.23	434	0.05	0.18	0.35	72	140
2790	0.19	0.28	0.18	436	0.05	0.13	0.24	68	126
2800	0.23	0.50	0.12	432	0.06	0.06	0.18	26	78
2810	0.22	0.38	0.24	438	0.09	0.15	0.18	68	81
2820	0.21	0.46	0.39	441	0.18	0.21	0.13	100	61
2830	0.30	0.46	0.41	436	0.19	0.22	0.24	73	80
2840	0.13	0.38	0.16	437	0.06	0.10	0.19	76	146
2850	0.23	0.41	0.22	434	0.09	0.13	0.29	56	126
2860	0.10	0.54	0.13	439	0.07	0.06	0.07	60	70
2870	0.14	0.50	0.12	435	0.06	0.06	0.18	42	128
2880	0.16	1.00	0.01	0	0.01	0.00	0.31	0	193
2890	0.10	0.43	0.07	437	0.03	0.04	0.18	40	180
2900	0.11	1.00	0.01	0	0.01	0.00	0.27	0	245
2910	0.10	0.25	0.04	435	0.01	0.03	0.20	30	200
2920	0.09	0.00	0.01	0	0.00	0.01	0.17	11	188
2930	0.09	0.00	0.01	0	0.00	0.01	0.21	11	233
2940	0.09	0.00	0.01	0	0.00	0.01	0.17	11	188
2950	0.14	0.28	0.25	499	0.07	0.18	0.23	128	164
2960	0.07	0.00	0.01	0	0.00	0.01	0.09	14	128
2970	0.12	0.00	0.01	0	0.00	0.01	0.20	8	166
2980	0.09	0.33	0.06	439	0.02	0.04	0.19	44	211
2990	0.10	0.22	0.09	438	0.02	0.07	0.15	70	150
3000	0.11	0.27	0.11	439	0.03	0.08	0.13	72	118
3010	0.15	0.31	0.16	438	0.05	0.11	0.18	73	119
3020	0.15	0.27	0.11	438	0.03	0.08	0.25	53	166
3030	0.13	0.03	0.30	402	0.01	0.29	0.16	223	123
3040	0.13	0.25	0.08	435	0.02	0.06	0.26	46	200
3050	0.09	0.17	0.06	442	0.01	0.05	0.10	55	111
3060	0.11	0.00	0.04	0	0.00	0.04	0.22	36	200
3070	0.09	0.00	0.02	364	0.00	0.02	0.23	22	255
3080	0.07	0.00	0.02	378	0.00	0.02	0.09	28	128
3090	0.09	0.00	0.03	419	0.00	0.03	0.15	33	166
3100	0.13	0.08	0.13	439	0.01	0.12	0.21	92	161
3110	0.13	0.13	0.08	434	0.01	0.07	0.28	53	215

Hunt PCP Port-Au-Port #1

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
3120	0.13	0.22	0.09	424	0.02	0.07	0.26	53	200
3130	0.13	0.20	0.10	425	0.02	0.08	0.22	61	169
3140	0.11	0.13	0.08	430	0.01	0.07	0.21	63	190
3150	0.13	0.18	0.11	437	0.02	0.09	0.24	69	184
3160	0.11	0.13	0.08	440	0.01	0.07	0.15	63	136
3170	0.13	0.13	0.08	441	0.01	0.07	0.18	53	138
3180	0.14	0.10	0.10	440	0.01	0.09	0.36	64	257
3190	0.09	0.00	0.06	444	0.00	0.06	0.04	66	44
3200	0.10	0.11	0.09	442	0.01	0.08	0.01	80	10
3210	0.08	0.22	0.09	443	0.02	0.07	0.04	87	50
3220	0.08	0.14	0.07	437	0.01	0.06	0.08	75	100
3230	0.10	0.00	0.06	441	0.00	0.06	0.07	60	70
3240	0.06	0.00	0.01	0	0.00	0.01	0.05	16	83
3250	0.08	0.00	0.02	353	0.00	0.02	0.13	25	162
3260	0.15	0.19	0.16	451	0.03	0.13	0.21	86	140
3270	0.22	0.29	0.28	450	0.08	0.20	0.09	90	40
3280	0.21	0.26	0.27	450	0.07	0.20	0.05	95	23
3290	0.20	0.27	0.26	451	0.07	0.19	0.06	95	30
3300	0.22	0.27	0.30	450	0.08	0.22	0.04	100	18
3310	0.22	0.33	0.24	448	0.08	0.16	0.14	72	63
3320	0.20	0.26	0.23	451	0.06	0.17	0.08	85	40
3330	0.21	0.27	0.26	451	0.07	0.19	0.06	90	28
3340	0.17	0.25	0.20	451	0.05	0.15	0.01	88	5
3350	0.17	0.24	0.21	452	0.05	0.16	0.01	94	5
3360	0.15	0.28	0.18	452	0.05	0.13	0.07	86	46
3370	0.15	0.22	0.23	448	0.05	0.18	0.02	119	13
3380	0.14	0.25	0.16	449	0.04	0.12	0.06	85	42
3390	0.18	0.24	0.38	448	0.09	0.29	0.03	161	16
3400	0.17	0.32	0.22	451	0.07	0.15	0.09	88	52
3410	0.18	0.27	0.22	451	0.06	0.16	0.06	88	33
3420	0.18	0.27	0.22	452	0.06	0.16	0.04	88	22
3430	0.18	0.27	0.33	451	0.09	0.24	0.11	133	61
3440	0.19	0.24	0.29	451	0.07	0.22	0.03	115	15
3450	0.17	0.29	0.24	455	0.07	0.17	0.13	100	76
3460	0.18	0.42	0.26	446	0.11	0.15	0.09	83	49
3470	0.26	0.28	0.60	402	0.17	0.43	0.14	165	53
3480	3.93	0.22	11.71	335	2.61	9.10	8.00	231	203
3490	10.97	0.24	32.28	340	7.62	24.66	19.93	224	181
3500	0.27	0.31	0.42	448	0.13	0.29	0.35	107	129
3500	3.24	0.21	8.87	332	1.88	6.99	7.19	215	221
3510	0.28	0.28	0.40	445	0.11	0.29	0.46	103	164
3520	0.31	0.31	0.65	355	0.20	0.45	0.27	145	87
3520	0.26	0.29	0.75	362	0.22	0.53	0.30	203	115
3530	0.21	0.35	0.34	446	0.12	0.22	0.34	104	161
3540	0.28	0.34	0.32	449	0.11	0.21	0.24	75	85
3540	0.34	0.29	0.65	442	0.19	0.46	0.39	135	114
3550	0.29	0.31	0.51	444	0.16	0.35	0.25	120	86
3560	0.01	0.00	0.01	0	0.00	0.01	0.01	100	100
3560	0.30	0.29	0.49	437	0.14	0.35	0.48	116	160
3570	0.63	0.36	1.29	330	0.47	0.82	1.73	130	274

Hunt PCP Port-Au-Port #1

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
3580	0.25	0.42	0.38	447	0.16	0.22	0.22	88	88
3580	1.28	0.38	3.69	329	1.41	2.28	3.31	178	258
3590	1.28	0.35	4.26	329	1.48	2.78	3.33	217	260
3600	0.24	0.33	0.45	448	0.15	0.30	0.14	125	58
3600	0.95	0.34	2.55	327	0.87	1.68	2.66	176	280
3610	0.85	0.36	2.30	329	0.82	1.48	2.70	174	317
3620	0.31	0.35	0.49	450	0.17	0.32	0.12	103	38
3620	0.86	0.29	2.43	327	0.71	1.72	2.75	200	319
3640	0.21	0.29	0.34	454	0.10	0.24	0.10	114	47
3660	0.28	0.36	0.45	442	0.16	0.29	0.21	103	75
3680	0.40	0.20	0.61	433	0.12	0.49	0.37	122	92
3700	0.24	0.28	0.40	452	0.11	0.29	0.09	120	37
3720	0.22	0.29	0.35	453	0.10	0.25	0.07	113	31
3750	0.22	0.28	0.32	453	0.09	0.23	0.06	104	27
3760	1.84	0.33	5.01	335	1.64	3.37	3.51	183	190
3770	0.50	0.21	0.43	438	0.09	0.34	0.94	68	188
3780	0.26	0.23	0.30	442	0.07	0.23	0.35	88	134
3790	0.38	0.27	0.56	441	0.15	0.41	0.44	107	115
3800	0.28	0.29	0.35	447	0.10	0.25	0.20	89	71
3810	0.29	0.29	0.41	447	0.12	0.29	0.18	100	62
3820	0.22	0.32	0.28	452	0.09	0.19	0.14	86	63
3830	0.19	0.40	0.10	426	0.04	0.06	0.45	31	236
3840	0.16	0.31	0.16	409	0.05	0.11	0.25	68	156
3850	0.13	0.30	0.10	409	0.03	0.07	0.48	53	369
3860	0.10	0.17	0.12	412	0.02	0.10	0.49	100	490
3870	0.20	0.27	0.26	388	0.07	0.19	3.85	95	1925
3880	0.15	0.33	0.12	447	0.04	0.08	0.56	53	373
3890	0.15	0.31	0.13	448	0.04	0.09	0.47	59	313
3900	0.13	0.27	0.11	449	0.03	0.08	0.32	61	246
3910	2.49	0.38	9.92	332	3.80	6.12	5.89	245	236
3990	0.68	0.27	1.62	347	0.43	1.19	2.27	175	333
4000	0.26	0.18	0.22	351	0.04	0.18	1.05	69	403
4010	0.75	0.23	2.05	353	0.47	1.58	2.73	210	364
4020	1.75	0.32	5.11	350	1.66	3.45	4.48	197	256
4040	5.35	0.37	16.04	342	5.91	10.13	10.90	189	203
4050	0.34	0.29	0.45	340	0.13	0.32	1.90	94	558
4060	0.43	0.16	0.64	347	0.10	0.54	2.04	125	474
4070	0.65	0.32	0.81	336	0.26	0.55	3.11	84	478
4080	0.21	0.29	0.14	339	0.04	0.10	1.14	47	542
4090	0.44	0.33	0.52	341	0.17	0.35	2.14	79	486
4100	0.20	0.25	0.12	353	0.03	0.09	0.81	45	405
4110	0.24	0.27	0.15	342	0.04	0.11	0.91	45	379
4130	0.15	0.22	0.09	374	0.02	0.07	0.39	46	260
4140	0.21	0.36	0.11	339	0.04	0.07	0.50	33	238
4150	0.31	0.32	0.28	358	0.09	0.19	0.84	61	270
4160	0.16	0.14	0.07	338	0.01	0.06	0.44	37	275
4170	0.21	0.29	0.14	373	0.04	0.10	0.48	47	228
4180	0.31	0.21	0.33	338	0.07	0.26	0.88	83	283
4190	0.13	0.29	0.07	366	0.02	0.05	0.35	38	269
4200	0.24	0.22	0.18	339	0.04	0.14	0.76	58	316

Hunt PCP Port-Au-Port #1

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
4210	0.44	0.52	1.43	338	0.74	0.69	0.93	156	211
4220	0.26	0.23	0.22	379	0.05	0.17	0.69	65	265
4230	0.13	0.00	0.01	322	0.00	0.01	0.28	7	215
4240	0.14	0.20	0.05	343	0.01	0.04	0.34	28	242
4250	0.10	0.00	0.01	329	0.00	0.01	0.30	10	300
4260	0.67	0.17	0.77	434	0.13	0.64	1.49	95	222
4270	0.15	0.22	0.09	391	0.02	0.07	0.47	46	313
4280	0.16	0.33	0.06	340	0.02	0.04	0.44	25	275
4290	0.17	0.38	0.24	388	0.09	0.15	0.64	88	376
4300	0.06	0.00	0.01	0	0.00	0.01	0.10	16	166
4310	0.06	1.00	0.01	0	0.01	0.00	0.13	0	216
4320	0.07	0.00	0.01	0	0.00	0.01	0.05	14	71
4330	0.08	0.33	0.03	0	0.01	0.02	0.18	25	225
4340	0.08	0.00	0.02	0	0.00	0.02	0.14	25	175
4350	0.10	0.00	0.01	0	0.00	0.01	0.20	10	200
4360	0.09	0.33	0.03	0	0.01	0.02	0.18	22	199
4370	0.13	0.11	0.18	399	0.02	0.16	0.30	123	230
4380	0.08	0.00	0.01	0	0.00	0.01	0.20	12	250
4390	0.08	0.50	0.02	443	0.01	0.01	0.28	12	350
4400	0.05	0.00	0.01	0	0.00	0.01	0.16	20	320
4410	0.08	0.33	0.03	0	0.01	0.02	0.26	25	325
4420	0.08	0.00	0.01	0	0.00	0.01	0.16	12	200
4430	0.09	0.00	0.01	0	0.00	0.01	0.25	11	277
4440	0.13	0.21	0.19	387	0.04	0.15	0.33	115	253
4450	0.05	0.00	0.01	0	0.00	0.01	0.21	20	420
4460	0.07	0.33	0.03	377	0.01	0.02	0.26	28	371
4470	0.09	0.00	0.02	334	0.00	0.02	0.32	22	355
4480	0.05	0.00	0.01	0	0.00	0.01	0.18	20	360
4490	0.07	0.50	0.08	332	0.04	0.04	0.29	57	414
4500	0.01	0.00	0.01	0	0.00	0.01	0.13	100	1300
4520	0.04	0.56	0.09	374	0.05	0.04	0.22	100	550
4580	0.01	0.00	0.01	0	0.00	0.01	0.21	100	2100
4590	0.04	0.54	0.13	318	0.07	0.06	0.24	150	600
4620	0.01	0.00	0.01	0	0.00	0.01	0.05	100	500
4630	0.06	0.00	0.01	0	0.00	0.01	0.01	16	16
4640	0.04	0.00	0.02	0	0.00	0.02	0.25	50	625
4650	0.01	0.00	0.01	0	0.00	0.01	0.17	100	1700
4680	0.11	0.00	0.01	0	0.00	0.01	0.01	9	9
4690	0.05	1.00	0.28	0	0.28	0.00	0.12	0	240

FINAL WELL REPORT

NHOC/PanCanadian Port au Port No. 1

APPENDIX V

PRODUCTION TEST DATA

NEWFOUNDLAND HUNT OIL COMPANY INC.

JULY 1996

FINAL WELL REPORT

NHOC/PanCanadian Port au Port No. 1

APPENDIX V

PRODUCTION TEST DATA

V - 1 Sample Collection Field Log ..... NHOC

NEWFOUNDLAND HUNT OIL COMPANY INC.

JULY 1996

Comp: Hunt Oil
Well: Port Au Port #1

Sample T [redacted] F	Source	Date	Time	Fluid	Press psi	Temp °C	Container	Ser#	End use / Remarks
1-1	Choke Manifold	Apr. 6		Water	0	–	1 litre plast	–	Core Lab
1-2	"	"		"	0	–	"		"
2-1	"	Apr. 9		"	0	–	"		"
2-2	"	"		"	0	–	"		"
3-1	Separator M.R.	Apr. 14	10:00	Gas	70	10	500 cc SS.	V390	"
3-2	" "	"	10:00	"	70	10	500 cc SS	V3688	"
3-3	" "	"	21.45	"	205	9	500 cc "	V3255	"
3-4	" "	"	"	"	205	9	500 cc "	V2998	"
3-5	" S.G.	"	"	Cond.	205	9	500 cc "	V2080	" Water contam
3-6	" "	"	"	"	205	9	500 cc "	V2940	" "
3-7	" "	"	"	"	205	9	500 cc "	V2926	" "
3-8	" "	"	"	"	205	9	500 cc "	V462	" "
3-9	Choke Manifold	"	"	Water	0	–	1 litre plas.		"
3-10	"	"	"	Water	0	–	"		"
3-11	"	"	"	Cond.	0	–	"		"
3-12	Separator M.R	Apr. 15	12.40	Gas	200	9	500 cc SS	V5205	"
3-13	" "	"	12.40	Gas	200	9	" "	V071	"
3-14	" S.G.	"	"	Cond	200	9	" "	20220	" Water contam
3-15	" "	"	"	"	200	9	" "	12904	" "
3-16	" "	"	"	"	200	9	" "	19379	" "
3-17	" "	"	"	"	200	9	" "	12196	" "
3-18	Separator	"	"	Condens	0	–	1 litre plast.		"
3-19	"	"	"	Water	0	–	"		"
3-20	"	"	"	Water	0	–	"		NFLD Goverment
3-21	"	"	"	Cond.	0	–	"		NFLD Goverment
3-22	"	"	"	Water	0	–	"		Fed. Goverment
[redacted]	"	"	"	Cond.	0	–	"		Fed. Goverment

Comp: Hunt Oil
Well: Port au Port #1

Sample DST # #	Source	Date	Time	Fluid	Press psi	Temp °C	Container	Ser#	End use / Remarks
4-1	Stocktank #1	4-20	9:20	Water	0	-	1 litre plast.		Core Lab
4-2	Separator	4-20	11:00	"	0	-	"		"
4-3	"	"	"	"	0	-	"		"
4-4	"	"	"	"	0	-	"		NFLD Gov
4-5	"	"	"	"	0	-	"		"
4-6	"	"	"	"	0	-	"		Fed Gov
4-7	"	"	"	"	0	-	"		"
4-8	Choke manifold	4-20	11:00	Oil	0	-	1 litre plast		Core Lab (Heated)
4-9	"	"	"	"	0	-	"		" "
4-10	"	"	"	"	0	-	"		" "
4-11	"	"	"	"	0	-	"		" "
4-12	Separator M.R.	4-20	11:45	Gas	204	7	250cc SS	Z 443	" "
4-13	" "	4-20	"	"	204	7	250cc SS	Z 34	" "
4-14	Separator S.G.	4-20	"	Oil	204	7	500cc SS	V1868	"
4-15	"	"	"	"	204	7	500cc SS	V2577	"
4-16	"	"	"	"	204	7	500cc SS	V6879	"
4-17	"	"	"	"	204	7	500cc SS	V3340	"
4-18	"	"	"	"	204	7	500cc SS	V5728	"
4-19	"	"	"	"	204	7	500cc SS	V5941	"
4-20	Separator	4-20	11:45	Oil	0	-	20 litre Act.		Core Lab
4-21	"	"	"	"	0	-	"		"
4-22	"	"	"	"	0	-	"		"
4-23	"	"	"	"	0	-	"		"
4-24	"	"	"	"	0	-	"		NFLD Gov
4-25	"	"	"	"	0	-	"		Fed Gov

FINAL WELL REPORT

NHOC/PanCanadian Port au Port No. 1

APPENDIX V

PRODUCTION TEST DATA

V - 2 Report on Oil Sample ..... Martin Fowler

NEWFOUNDLAND HUNT OIL COMPANY INC.

JULY 1996

To: Doug Horstad

REPORT ON OIL SAMPLE FROM HUNT PCP PORT AU PORT NO. 1 WELL

MARTIN FOWLER
Geological Survey of Canada, Calgary

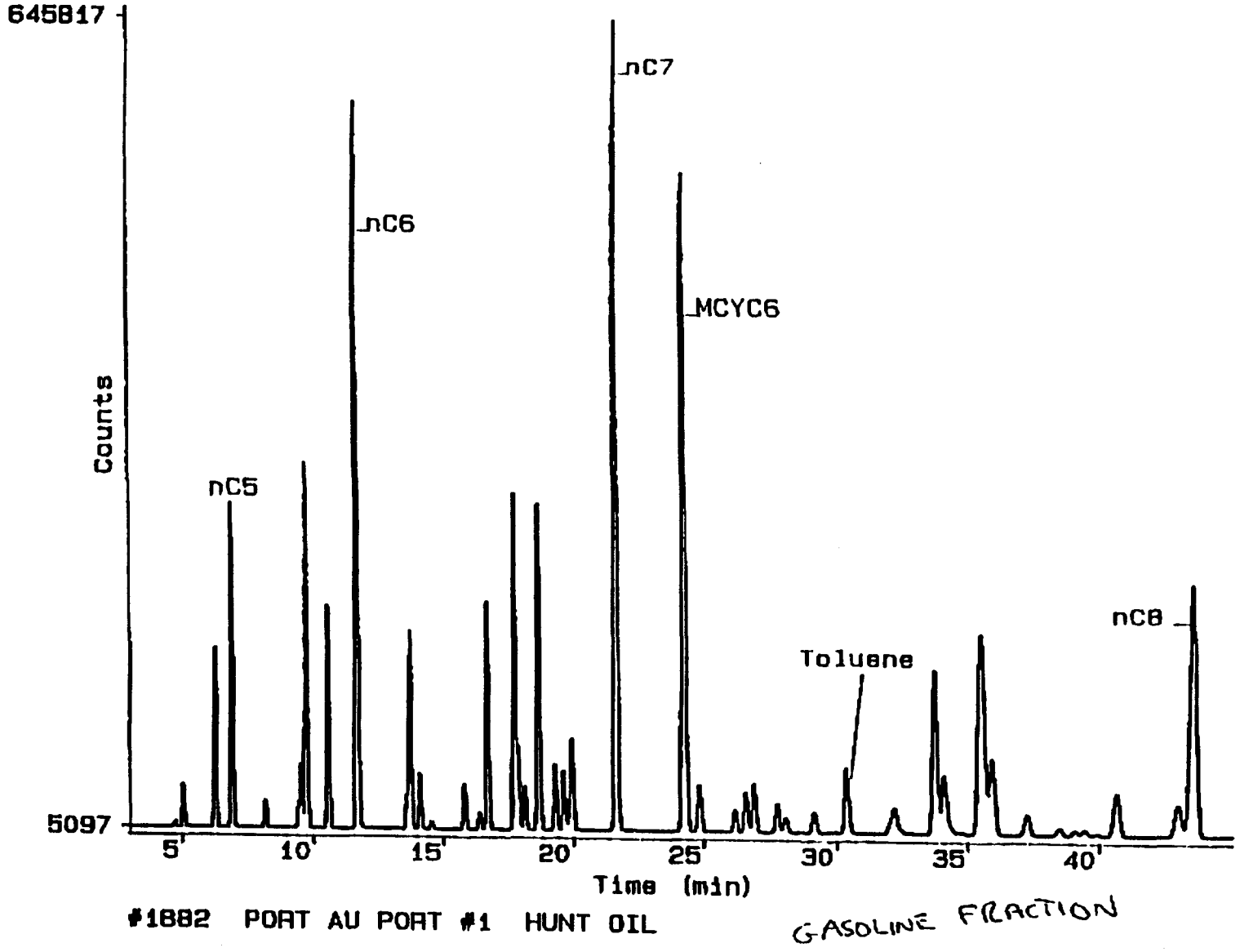
About one litre of oil was received. Some of this was distilled at 210°C prior to more detailed analysis. About half of the sample distils at this temperature indicating that it is a light oil. The gasoline fraction was analyzed by gas chromatography. The heavier distillation fraction was fractionated and the saturated hydrocarbons analyzed by gas chromatography and gas chromatography-mass spectrometry.

The data indicates that the oil is a mature unbiodegraded typical Cambro-Ordovician oil, not dissimilar to those examined onshore western Newfoundland. The gross composition of the >210°C fraction is 98.7% hydrocarbons and only 1.3 % NSO compounds. The ratio of saturate to aromatic hydrocarbons is 6.14 which is very high and higher than any of the onshore oils (the most mature onshore oils from Parson's Pond have saturate/aromatic ratios of around 5) but in agreement with the higher maturity of the Port au Port oil. The saturate fraction gas chromatogram is generally similar to western Newfoundland oils. There is a slight odd carbon number predominance over the C_{17}-C_{19} n-alkane range which is common to oils sourced from organic matter that has a significant contribution from the alga Gloeocapsomorpha prisca. The ratio of pristane to phytane is 2.01 which is similar to other oils from the area. There is one subtle difference from the other western Newfoundland oils as there is a somewhat greater amount of C_{20+} n-alkanes than what might be expected for the maturity of this oil.

Biomarkers are present in very low concentrations in the Port au Port oil. Essentially no hopanes were detected, and only C_{27} and C_{29} diasteranes are observed in the m/z 217 mass fragmentogram. There is a predominance of the C_{29} over the C_{27} as for the other western Newfoundland oils. Although biomarkers are in low abundance in these other western Newfoundland oils, there is sufficient for to "fingerprint" the oils. This is not really possible with the Port au Port oil. However, we will attempt to get a better analysis by concentrating the biomarker fraction.

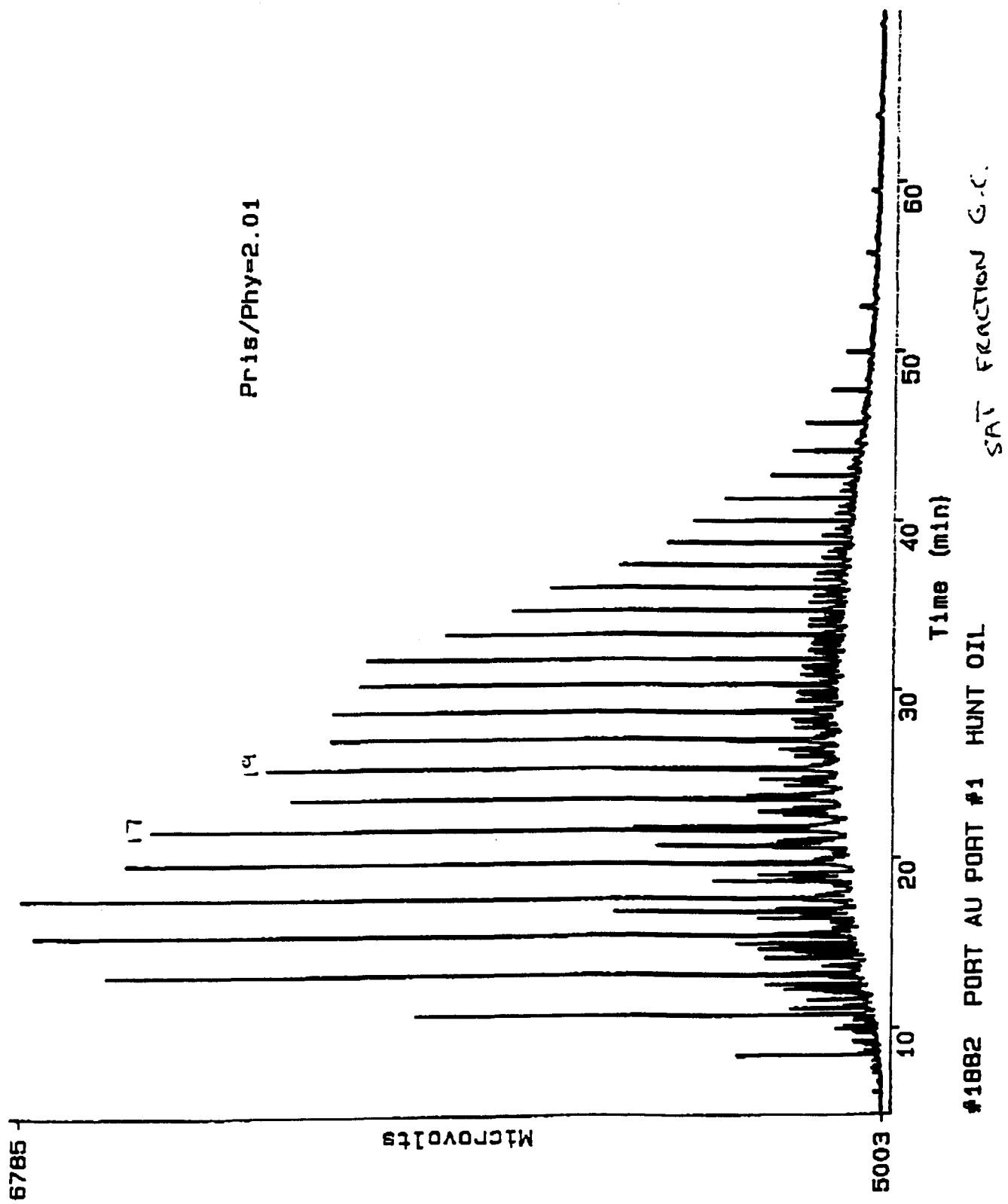
In summary, a number of the features of the Port au Port No. 1 oil such as gasoline range chromatogram, sat/aromatic ratio, odd predominance of C_{17}-C_{19} n-alkanes, pr/ph ratio, and C_{29}>C_{27} steranes are compatible with a Green Point shale source, although a source from another Cambro-Ordovician interval deposited under similar conditions with a significant contribution from Gloeocapsomorpha prisca alga cannot be ruled out. The oil is more mature than any of the onshore oils sampled to date, and is significantly more mature than the Shoal Point oils and immature Green Point shales at West Bay on the Port au Port Peninsula.

Data file: /HP/NFOIL018
Report: 13732
Acquired: Tue May 9, 1995 11:27:53 am
Time range: 3.00-45.00



#1882 PORT AU PORT #1 HUNT OIL

GASOLINE FRACTION



Report: 13737
Acquired: Wed May 10, 1995 2:29:56 pm
Time range: 5.00-70.00

FINAL WELL REPORT

NHOC/PanCanadian Port au Port No. 1

APPENDIX V

PRODUCTION TEST DATA

V - 3 Oil Analysis ..... Core Lab

NEWFOUNDLAND HUNT OIL COMPANY INC.

JULY 1996

OIL ANALYSIS

385 — CONTAINER IDENTITY

52134-95-3832 — LABORATORY NUMBER

Hunt Oil Company — OPERATOR

35 — PAGE

Hunt PCP Port Au Port #1 (NFLD) — WELL OR SAMPLE LOCATION

LOCATION | KB ELEV. (m) | GR ELEV

FIELD OR AREA | POOL OR ZONE

Core Laboratories — SAMPLER

TEST TYPE & NO. | TEST RECOVERY

Separator (4-23) — POINT OF SAMPLE

AMT. & TYPE CUSHION | @ MUD RESISTIVITY

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m^3/d | OIL m^3/d | GAS

TEST INTERVAL (meters)

SEPARATOR | RESERVOIR | @ °C CONTAINER WHEN SAMPLED | @ °C CONTAINER WHEN RECEIVED | SEPARATOR

Pressures, kPa (gauge) — Temperatures, °C

95 04 20	95 05 15	95 05 19	SM/FL	
DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	SIGNATURE

SAMPLE PROPERTIES

Brown	0.008	0.000	0.008
COLOUR OF CLEAN OIL	WATER	BS	TOTAL BS & W

ABSOLUTE DENSITY kg/m³ @15°C

	781.0
AS RECEIVED	AFTER CLEANING

API GRAVITY @15.6 °C

	49.6
AS RECEIVED	AFTER CLEANING

SULPHUR

0.47 grams/kg

SALT

kg/m³

POUR POINT °C

-12 A.S.T.M.

REID VAPOUR PRESSURE

KPa

CARBON RESIDUE

CONRADSON | RAMSBOTTOM

VISCOSITY

TEMP °C	DYNAMIC mPa's	KINEMATIC mm^2/s
-6.7	298.9	374.5
4.4	6.669	8.453
15.6	2.052	2.628

FRACTION DISTILLED	TEMP °C
0.05	66
0.10	86
0.15	103
0.20	119
0.25	135
0.30	151
0.35	167
0.40	190
0.45	213
0.50	237
0.55	260
0.60	284
0.65	309
0.70	340
0.75	371
FBP	371
CRACKED	

DISTILLATION

ASTM D-86 — METHOD

89.1 kPa — BAROM. PRESS.

22 °C — ROOM TEMP

41 °C — INITIAL BOIL PT.

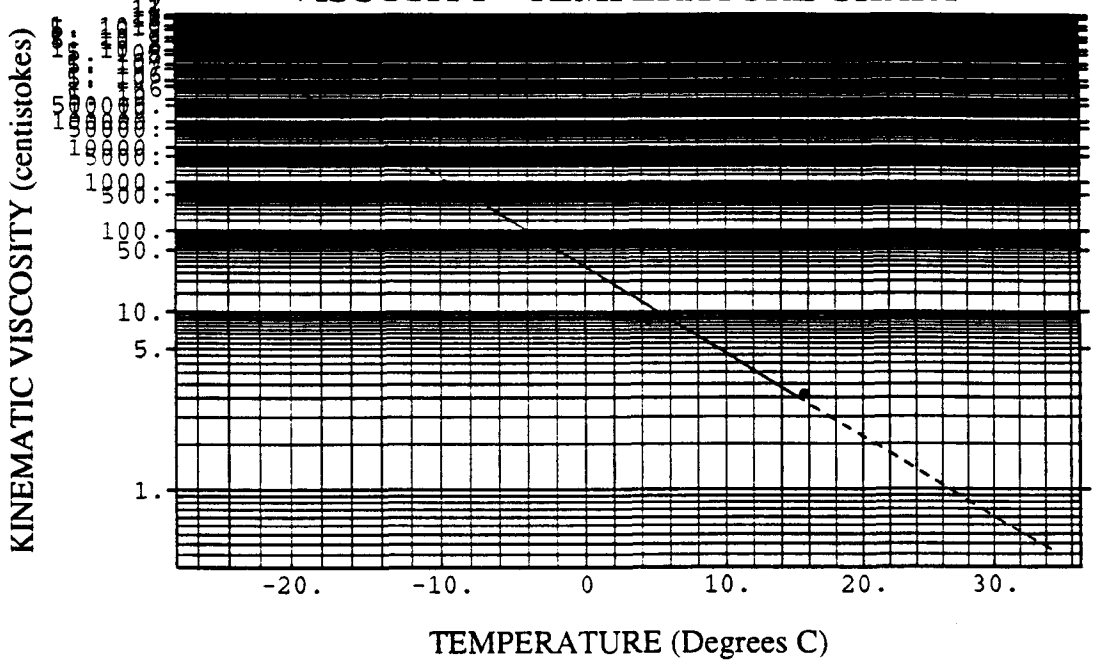
DISTILLATION SUMMARY

0.43	0.15
204 °C NAPHTHA	274 °C KEROSENE
0.13	0.75
343 °C LIGHT GAS/OIL	RECOVERED
0.24	0.01
RESIDUE	DISTILLATION LOSS

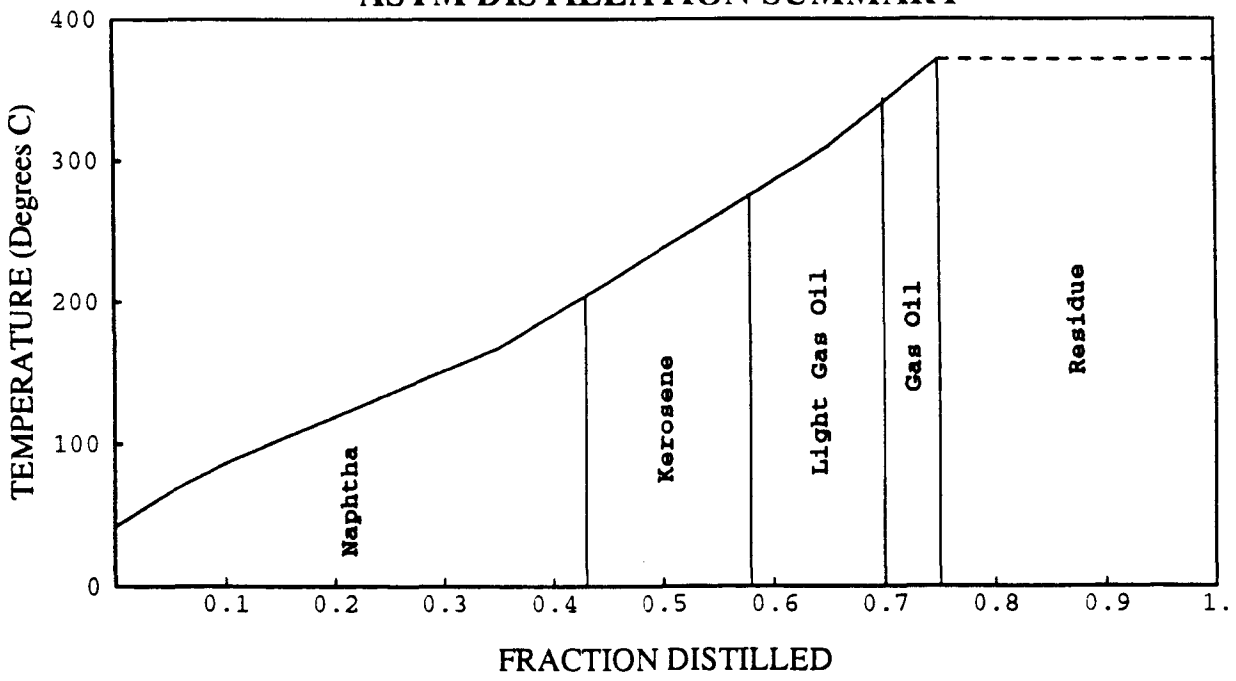
REMARKS: The cloud point of this crude is likely in the viscosity range measured, i.e. non-linear plot.

Company Name	:	Hunt Oil Company
Well Name	:	Hunt PCP Port Au Port #1 (NFLD)
Location	:	
Sampled From	:	Separator (4-23)
Sampling Date	:	95 04 20

VISCOSITY - TEMPERATURE CHART



ASTM DISTILLATION SUMMARY



HYDROCARBON LIQUID ANALYSIS 95-606-2

V6879
CONTAINER IDENTITY

52134-95-0606
LABORATORY NUMBER

Hunt Oil Company
OPERATOR

PAGE

LOCATION

Hunt PCP Port Au Port #1 (NFLD)
WELL OR SAMPLE LOCATION

KB ELEV. (m) GR ELE

FIELD OR AREA

POOL OR ZONE

Hunt Oil
SAMPLER

DST #4
TEST TYPE & NO.

TEST RECOVERY

Separator - Meter Run
POINT OF SAMPLE

AMT. & TYPE CUSHION

@
MUD RESISTIVITY

PUMPING FLOWING GAS LIFT SWAB

WATER m³/d OIL m³/d GAS

TEST INTERVAL (meters)

1407
SEPARATOR

RESERVOIR

@ °C
CONTAINER WHEN SAMPLED

@ °C
CONTAINER WHEN RECEIVED

7.0
SEPARATOR

Pressures, kPa (gauge)

Temperatures, °C

11:45 Hrs

95 05 20
DATE SAMPLED (Y/M/D)

95 05 16
DATE RECEIVED (Y/M/D)

DATE ANALYZED (Y/M/D)

ANALYST

SIGNATURE

COMPONENT	MOLE FRACTION	MASS FRACTION	LIQUID VOLUME FRACTION	mL/m³
N_2	0.0007	0.0002	0.0001	1.0
CO_2	0.0000	0.0000	0.0000	0.0
H_2S	0.0000	0.0000	0.0000	0.0
C_1	0.0571	0.0076	0.0185	129.1
C_2	0.0817	0.0203	0.0417	290.4
C_3	0.0963	0.0351	0.0508	354.0
iC_4	0.0270	0.0130	0.0169	117.9
C_4	0.0690	0.0332	0.0417	290.4
iC_5	0.0350	0.0209	0.0246	171.1
C_5	0.0376	0.0224	0.0261	181.8
C_{6+}	0.5956	0.8473	0.7796	5428.2
Total	1.0000	1.0000	1.0000	6964.0

OBSERVED PROPERTIES OF C_{6+} RESIDUE (15/15°C)

798.6 kg/m³
DENSITY

0.7994
RELATIVE DENSITY

45.7
API @ 15.5° C

172
RELATIVE MOLECULAR MASS

CALCULATED PROPERTIES OF TOTAL SAMPLE (15/15°C)

734.6 kg/m³
DENSITY

0.7353
RELATIVE DENSITY

61.1
API @ 15.5° C

120.96
RELATIVE MOLECULAR MASS

REMARKS:

NOTE: All Properties have been calculated utilizing GPA 2145-88 physical constants.

HYDROCARBON LIQUID ANALYSIS 95-606-2

Operator: HUNT OIL COMPANY
Well: HUNT/ACP PORT AU PORT (NFLD)
Sample Point: SEPARATOR

Page:
File: 52134-95-0606
Date:

Analysis of C_{6+} Fraction

Boiling Point Range (°C)	Component	Carbon Number	Mole Fraction	Mass Fraction	Liq. Vol. Fraction
36.1- 68.9	Hexanes	C_6	0.0593	0.0422	0.0445
68.9- 98.3	Heptanes	C_7	0.0544	0.0450	0.0458
98.3-125.6	Octanes	C_8	0.0600	0.0565	0.0561
125.6-150.6	Nonanes	C_9	0.0432	0.0458	0.0444
150.6-173.9	Decanes	C_{10}	0.0423	0.0497	0.0475
173.9-196.1	Undecanes	C_{11}	0.0343	0.0443	0.0416
196.1-215.0	Dodecanes	C_{12}	0.0327	0.0460	0.0428
215.0-235.0	Tridecanes	C_{13}	0.0260	0.0396	0.0364
235.0-252.2	Tetradecanes	C_{14}	0.0224	0.0367	0.0335
252.2-270.6	Pentadecanes	C_{15}	0.0189	0.0332	0.0302
270.6-287.8	Hexadecanes	C_{16}	0.0168	0.0314	0.0284
287.8-302.8	Heptadecanes	C_{17}	0.0140	0.0278	0.0249
302.8-317.2	Octadecanes	C_{18}	0.0113	0.0237	0.0212
317.2-330.0	Nonadecanes	C_{19}	0.0102	0.0226	0.0200
330.0-344.4	Eicosanes	C_{20}	0.0097	0.0226	0.0200
344.4-357.2	Heneicosanes	C_{21}	0.0084	0.0206	0.0182
357.2-369.4	Docosanes	C_{22}	0.0067	0.0172	0.0152
369.4-380.0	Tricosanes	C_{23}	0.0064	0.0172	0.0150
380.0-391.1	Tetracosanes	C_{24}	0.0055	0.0154	0.0135
391.1-401.7	Pentacosanes	C_{25}	0.0052	0.0151	0.0131
401.7-412.2	Hexacosanes	C_{26}	0.0043	0.0130	0.0112
412.2-422.2	Heptacosanes	C_{27}	0.0039	0.0123	0.0107
422.2-431.7	Octacosanes	C_{28}	0.0031	0.0101	0.0087
431.7-441.1	Nonacosanes	C_{29}	0.0031	0.0105	0.0090
441.1 PLUS	Triacontanes Plus	C_{30+}	0.0180	0.0893	0.0766
80.0	Benzene	C_6H_6	0.0022	0.0014	0.0011
110.6	Toluene	C_7H_8	0.0068	0.0052	0.0041
136.1-138.9	Ethylbenzene, p + m-Xylene	C_8H_{10}	0.0118	0.0103	0.0083
144.4	o-Xylene	C_8H_{10}	0.0065	0.0057	0.0045
168.9	1,2,4 Trimethylbenzene	C_9H_{12}	0.0039	0.0039	0.0031
48.9	Cyclopentane	C_5H_{10}	0.0032	0.0019	0.0017
72.2	Methylcyclopentane	C_6H_{12}	0.0088	0.0061	0.0057
81.1	Cyclohexane	C_6H_{12}	0.0104	0.0072	0.0065
101.1	Methylcyclohexane	C_7H_{14}	0.0219	0.0178	0.0161
	TOTAL		0.5956	0.8473	0.7796
	Mole Fraction of C7+				0.5331
	Mass Fraction of C7+				0.8032
	Liquid Volume Fraction of C7+				0.7334
	Calculated Relative Molecular Mass of C7+				182
	Calculated Relative Density of C7+				0.8081
	Calculated Density of C7+ (kg/m3)				807.4

FINAL WELL REPORT

NHOC/PanCanadian Port au Port No. 1

APPENDIX V

PRODUCTION TEST DATA

V - 4 Gas Analysis ..... Core Lab

NEWFOUNDLAND HUNT OIL COMPANY INC.

JULY 1996

GAS ANALYSIS

Z443
CONTAINER IDENTITY

52134-95-0606
LABORATORY NUMBER

Hunt Oil Company
OPERATOR

PAGE

LOCATION

Hunt PCP Port Au Port #1 (NFLD)
WELL OR SAMPLE LOCATION

KB ELEV. (m) GR E

FIELD OR AREA

POOL OR ZONE

Hunt Oil
SAMPLER

TEST TYPE & NO.

TEST RECOVERY

Separator - Meter Run
POINT OF SAMPLE

AMT. & TYPE CUSHION

@
MUD RESISTIVITY

PUMPING FLOWING GAS LIFT SWAB

WATER m^3/d OIL m^3/d GAS

TEST INTERVAL (meters)

1407
SEPARATOR

RESERVOIR

@ °C
CONTAINER WHEN SAMPLED

1450 @ 22 °C
CONTAINER WHEN RECEIVED

7.0
SEPARATOR

Pressures, kPa (gauge)

Temperatures, °C

11:45 Hrs
95 05 20
DATE SAMPLED (Y/M/D)

95 05 16
DATE RECEIVED (Y/M/D)

95 05 16
DATE ANALYZED (Y/M/D)

AD
ANALYST

SIGNATURE

COMPONENT	MOLE FRACTION AIR FREE AS RECEIVED	MOLE FRACTION AIR FREE ACID GAS FREE	mL/m^3 AIR FREE AS RECEIVED
H_2	0.0001	0.0001	
He	0.0004	0.0004	
N_2	0.0619	0.0619	
CO_2	0.0003	0.0000	
H_2S	0.0000	0.0000	
C_1	0.7202	0.7205	
C_2	0.1547	0.1547	549.9
C_3	0.0457	0.0457	168.0
iC_4	0.0052	0.0052	22.7
C_4	0.0082	0.0082	34.5
iC_5	0.0015	0.0015	7.3
C_5	0.0012	0.0012	5.8
C_6	0.0005	0.0005	2.7
C_{7+}	0.0001	0.0001	0.7
Total	1.0000	1.0000	791.7

CALCULATED GROSS HEATING VALUE
MJ/m^3 @ 15°C & 101.325 kPa (abs.)

43.96
MOISTURE FREE

43.97
MOISTURE & ACID GAS FREE

CALCULATED VAPOR PRES
kPa (abs.) @ 40.0°C

116.6
PENTANES PLUS

CALCULATED TOTAL SAMPLE PROPERTIES (AIR=1) @ 15°C & 101.325 kPa
MOISTURE FREE AS SAMPLED

0.889 kg/m^3
DENSITY

0.725
RELATIVE DENSITY

21.0
RELATIVE MOLECULAR MASS

CALCULATED PSEUDOCRITICAL PROPERTIES

AS SAMPLED

4534.6 kPa (abs)
pPc

216.5 K
pTc

ACID GAS FREE

kPa (abs)
pPc

pTc

REMARKS:

NOTE: THE GROSS HEATING VALUE HAS BEEN CALCULATED IN ACCORDANCE TO AGA REPORT #5 AND ALL PROPERTIES HAVE BEEN CALCULATED UTILIZING GPA 2145-88 PHYSICAL CONSTANTS.

FINAL WELL REPORT

NHOC/PanCanadian Port au Port No. 1

APPENDIX V

PRODUCTION TEST DATA

V - 5 Water Analysis ..... Core Lab

NEWFOUNDLAND HUNT OIL COMPANY INC.

JULY 1996

Reservoir Fluids Report
for

Hunt Oil Company

Hunt PCP Port-Au-Port

52134-95-3034
1995 02 24

A product of
Core Laboratories

Reports Distributed to: Doug Hostad - Hunt, Calgary - 2 Copies + Invoice
Tony Cadrin - PanCanadian, Calgary - 1 Copy

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Core Laboratories

ADVANCED TECHNOLOGY CENTER

WESTERN ATLAS

WATER ANALYSIS

277 — CONTAINER IDENTITY

52134-95-3034 — LABORATORY NUMBER

Hunt Oil Company — OPERATOR

1 of 6 — PAGE

LOCATION

Hunt PCP Port-Au-Port — WELL OR SAMPLE LOCATION

KB ELEV. (m) | GR EL

FIELD OR AREA | POOL OR ZONE | SAMPLER

TEST TYPE & NO | TEST RECOVERY

On Shore Water Well — POINT OF SAMPLE | AMT. & TYPE CUSHION | @ MUD RESISTIVITY

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m^3/d | OIL m^3/d | GAS

TEST INTERVAL (meters)

SEPARATOR | RESERVOIR | @ °C CONTAINER WHEN SAMPLED | @ °C CONTAINER WHEN RECEIVED | SEPARATOR

Pressures. kPa (gauge) | Temperatures. °C

95 01 09 — DATE SAMPLED (Y/M/D) | 95 01 16 — DATE RECEIVED (Y/M/D) | NR/MB — DATE ANALYZED (Y/M/D) | ANALYST | SIGNATURE

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	93	0.1149	4.0
K	1.9	0.0023	0.0
Ca	120	0.1482	6.0
Mg	25	0.0309	2.1
Ba	0.16	0.0002	0.0
Sr	0.29	0.0004	0.0
Fe	0.16	0.0002	0.0
Mn	0.45	0.0006	0.0

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	286	0.3532	8.1
Br	1.7	0.0021	0.0
I	< 1.0	0.0000	0.0
HCO_3	226	0.2791	3.7
SO_4	55	0.0679	1.1
CO_3	0	0.0000	0.0
OH	0	0.0000	0.0
H_2S	N.D.		

Total Solids (mg/L)

By Evaporation @ 110 °C | By Evaporation @ 18

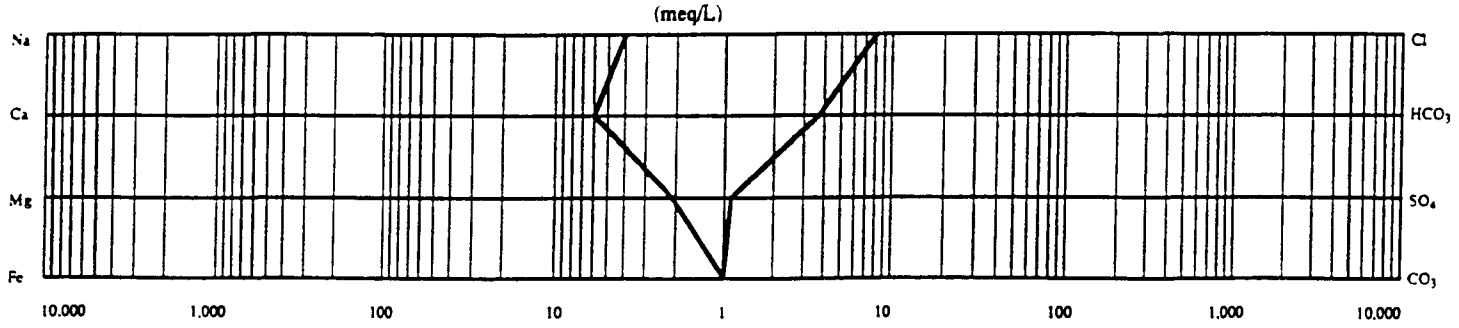
At Ignition | 810 Calculated

1.0006 @ 15.6 °C Specific Gravity | 1.3295 @ 22 Refractive Index

8.2 pH | 7.899 @ 25 Resistivity (Ohm-Mete

LOGARITHMIC PATTERNS OF DISSOLVED IONS

(meq/L)



Remarks:

N.D. - Not Detected.

Core Laboratories

ADVANCED TECHNOLOGY CENTER

WESTERN ATLAS

WATER ANALYSIS

278 — CONTAINER IDENTITY

52134-95-3034 — LABORATORY NUMBER

Hunt Oil Company — OPERATOR

2 of 6 — PAGE

LOCATION

Hunt PCP Port-Au-Port — WELL OR SAMPLE LOCATION

KB ELEV. (m) | GR EL.

FIELD OR AREA | POOL OR ZONE | SAMPLER

TEST TYPE & NO. | TEST RECOVERY

Drill Mud — POINT OF SAMPLE | AMT. & TYPE CUSHION | @ MUD RESISTIVITY

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m^3/d | OIL m^3/d | GAS

TEST INTERVAL (meters)

SEPARATOR | RESERVOIR | @ °C CONTAINER WHEN SAMPLED | @ °C CONTAINER WHEN RECEIVED | SEPARATOR

Pressures, kPa (gauge) | Temperatures, °C

95 01 09 — DATE SAMPLED (Y/M/D) | 95 01 16 — DATE RECEIVED (Y/M/D) | NR/MB — DATE ANALYZED (Y/M/D) | ANALYST | SIGNATURE

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	5160	0.3864	224.4
K	53	0.0040	1.4
Ca	5.2	0.0004	0.3
Mg	0.2	0.0000	0.0
Ba	0.06	0.0000	0.0
Sr	0.34	0.0000	0.0
Fe	0.17	0.0000	0.0
Mn	0.03	0.0000	0.0

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	7047	0.5277	198.8
Br	53.6	0.0040	0.7
I	< 3.0	0.0000	0.0
HCO_3	0	0.0000	0.0
SO_4	168	0.0126	3.5
CO_3	794	0.0595	26.5
OH	73	0.0055	4.3
H_2S	N.D.		

Total Solids (mg/L)

By Evaporation @ 110 °C | By Evaporation @ 180

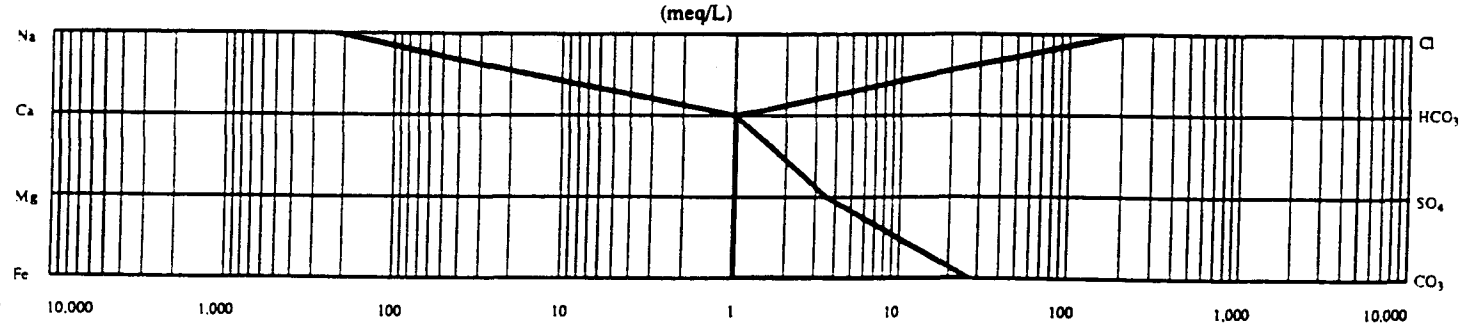
At Ignition | 13355 Calculated

1.0061 @ 15.6 °C Specific Gravity | 1.3320 @ 22 Refractive Index

11.7 pH | 0.435 @ 25 Resistivity (Ohm-Meters)

LOGARITHMIC PATTERNS OF DISSOLVED IONS

(meq/L)



Remarks:

N.D. - Not Detected.

Core Laboratories

ADVANCED TECHNOLOGY CENTER

WESTERN ATLAS

WATER ANALYSIS

289 — CONTAINER IDENTITY

52134-95-3034 — LABORATORY NUMBER

Hunt Oil Company — OPERATOR

3 of 6 — PAGE

LOCATION

Hunt PCP Port-Au-Port — WELL OR SAMPLE LOCATION

KB ELEV (m) | GR E

FIELD OR AREA | POOL OR ZONE | SAMPLER

TEST TYPE & NO | TEST RECOVERY

Sea Water — POINT OF SAMPLE | AMT. & TYPE CUSHION | @ MUD RESISTIVITY

TEST INTERVAL meters | PUMPING | FLOWING | GAS LIFT | SWAB

WATER m^3/d | OIL m^3/d | GAS

SEPARATOR | RESERVOIR | @ °C CONTAINER WHEN SAMPLED | @ °C CONTAINER WHEN RECEIVED | SEPARATOR

Pressures, kPa (gauge) — Temperatures, °C

DATE SAMPLED (Y M D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	SIGNATURE
	95 01 09	94 10 21	NR/JT	

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	9364	0.2879	407.3
K	337	0.0104	8.6
Ca	356	0.0109	17.8
Mg	1131	0.0348	93.1
Ba	< 0.10	0.0000	0.0
Sr	7.1	0.0002	0.2
Fe	< 0.10	0.0000	0.0
Mn	< 0.10	0.0000	0.0

ANIONS

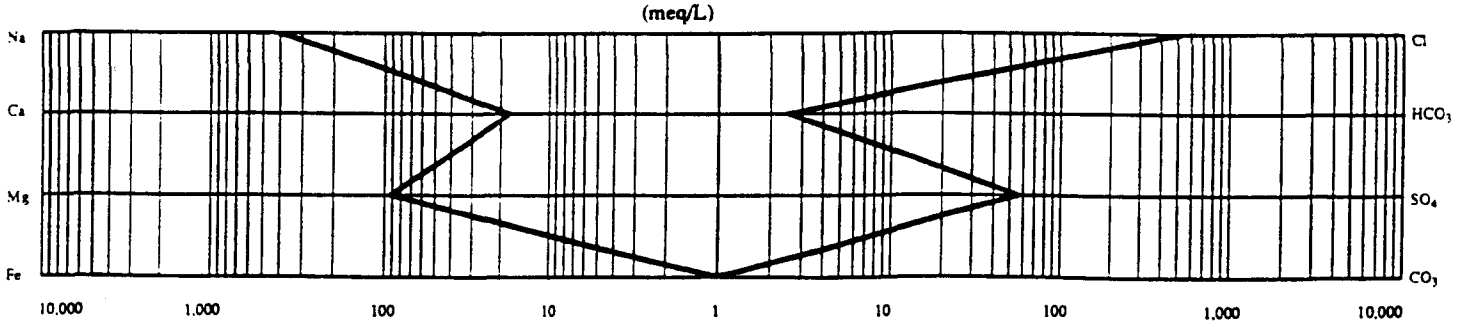
ION	mg/L	mg Fraction	meq/L
Cl	18436	0.5668	520.0
Br	56.1	0.0017	0.7
I	< 1.0	0.0000	0.0
HCO_3	155	0.0048	2.5
SO_4	2685	0.0825	55.9
CO_3	0	0.0000	0.0
OH	0	0.0000	0.0
H_2S	N.D.		

Total Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 1
At Ignition	32527 Calculated
1.0242 @ 15.6 °C Specific Gravity	1.3345 @ 22 Refractive Index
7.2 pH	0.243 @ 25 Resistivity (Ohm-Me

LOGARITHMIC PATTERNS OF DISSOLVED IONS

(meq/L)



Remarks: Detailed water analysis analyzed 95-01-17.

N.D.- Not Detected.

Core Laboratories

ADVANCED TECHNOLOGY CENTER

WESTERN ATLAS

WATER ANALYSIS

290 — CONTAINER IDENTITY

52134-95-3034 — LABORATORY NUMBER

Hunt Oil Company — OPERATOR

4 of 6 — PAGE

LOCATION

Hunt PCP Port-Au-Port — WELL OR SAMPLE LOCATION

KB ELEV. (m) | GR E:

FIELD OR AREA | POOL OR ZONE | SAMPLER

TEST TYPE & NO | TEST RECOVERY

Formation Water — POINT OF SAMPLE | AMT. & TYPE CUSHION | @ MUD RESISTIVITY

TEST INTERVAL (meters) | PUMPING | FLOWING | GAS LIFT | SWAB

WATER m^3/d | OIL m^3/d | GAS

SEPARATOR | RESERVOIR | @ °C CONTAINER WHEN SAMPLED | @ °C CONTAINER WHEN RECEIVED | SEPARATOR

Pressures, kPa (gauge) | Temperatures, °C

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	SIGNATURE
	95 01 09	94 10 21	NR/JT	

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	11310	0.1925	492.0
K	172	0.0029	4.4
Ca	7480	0.1273	373.3
Mg	1494	0.0254	122.9
Ba	2.1	0.0000	0.0
Sr	220	0.0037	5.0
Fe	3.1	0.0001	0.1
Mn	3.7	0.0001	0.1

ANIONS

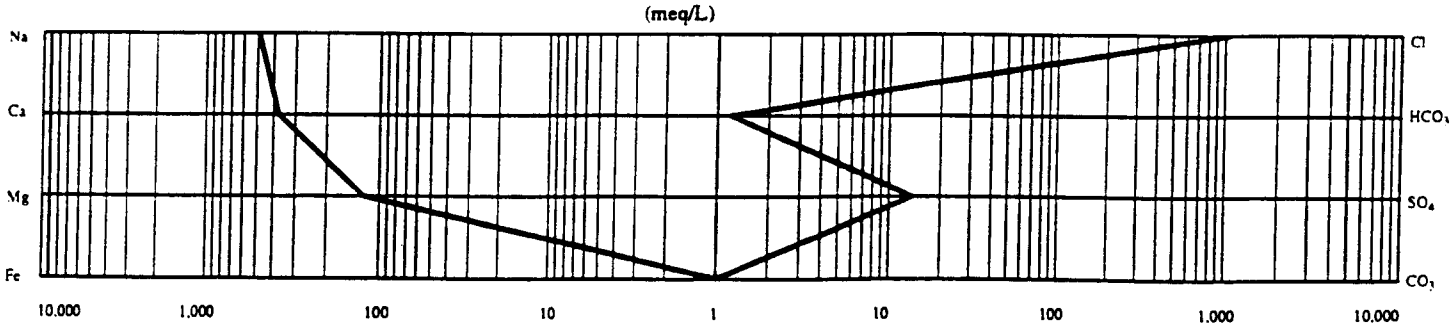
ION	mg/L	mg Fraction	meq/L
Cl	37052	0.6308	1045.1
Br	278	0.0047	3.5
I	< 3.0	0.0000	0.0
HCO_3	71	0.0012	1.2
SO_4	655	0.0112	13.6
CO_3	0	0.0000	0.0
OH	0	0.0000	0.0
H_2S	N.D.		

Total Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 18
At Ignition	58741 Calculated
1.0439 @ 15.6 °C Specific Gravity	1.3407 @ 22 Refractive Index
6.3 pH	0.149 @ 25 Resistivity (Ohm-Met

LOGARITHMIC PATTERNS OF DISSOLVED IONS

(meq/L)



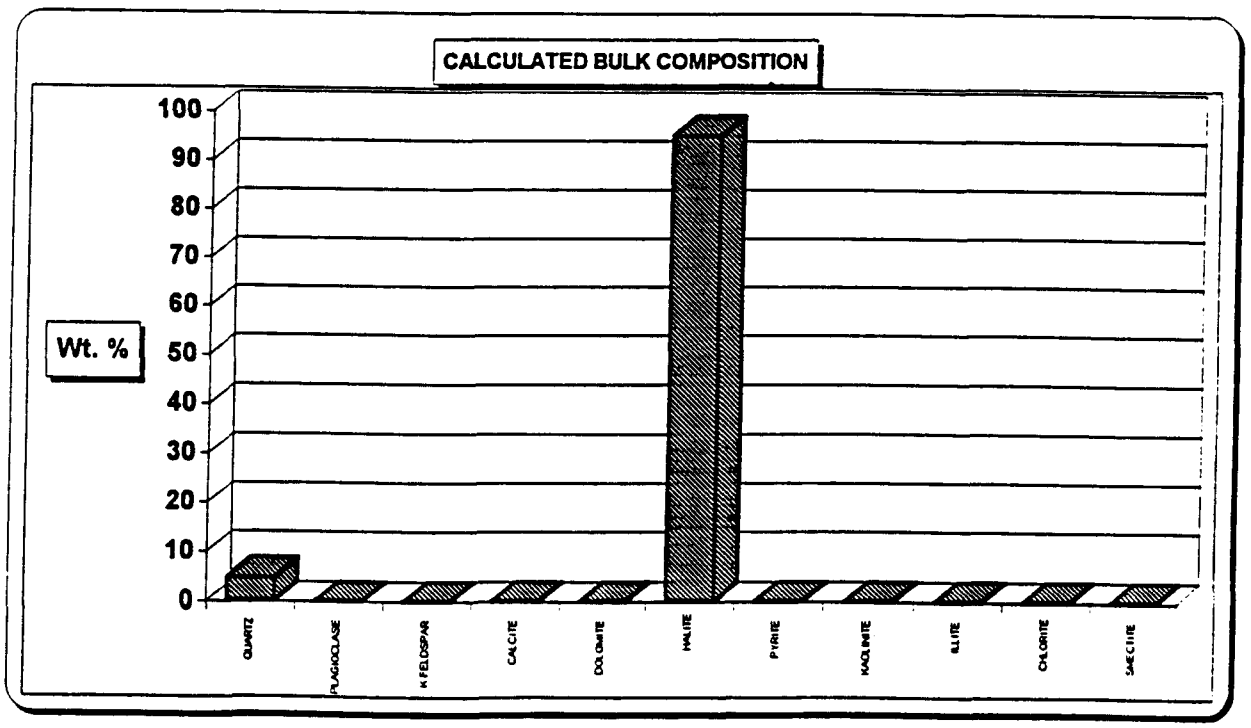
Remarks: Detailed water analysis analyzed 95-01-17.

N.D.- Not Detected.

X-RAY DIFFRACTION ANALYSIS

COMPANY: HUNT OIL COMPANY
SAMPLE: PORT AU PORT #1 WEST NEWFOUNDLAND
SUSPENDED SOLIDS
FILE NO: 52131-94-3500-1

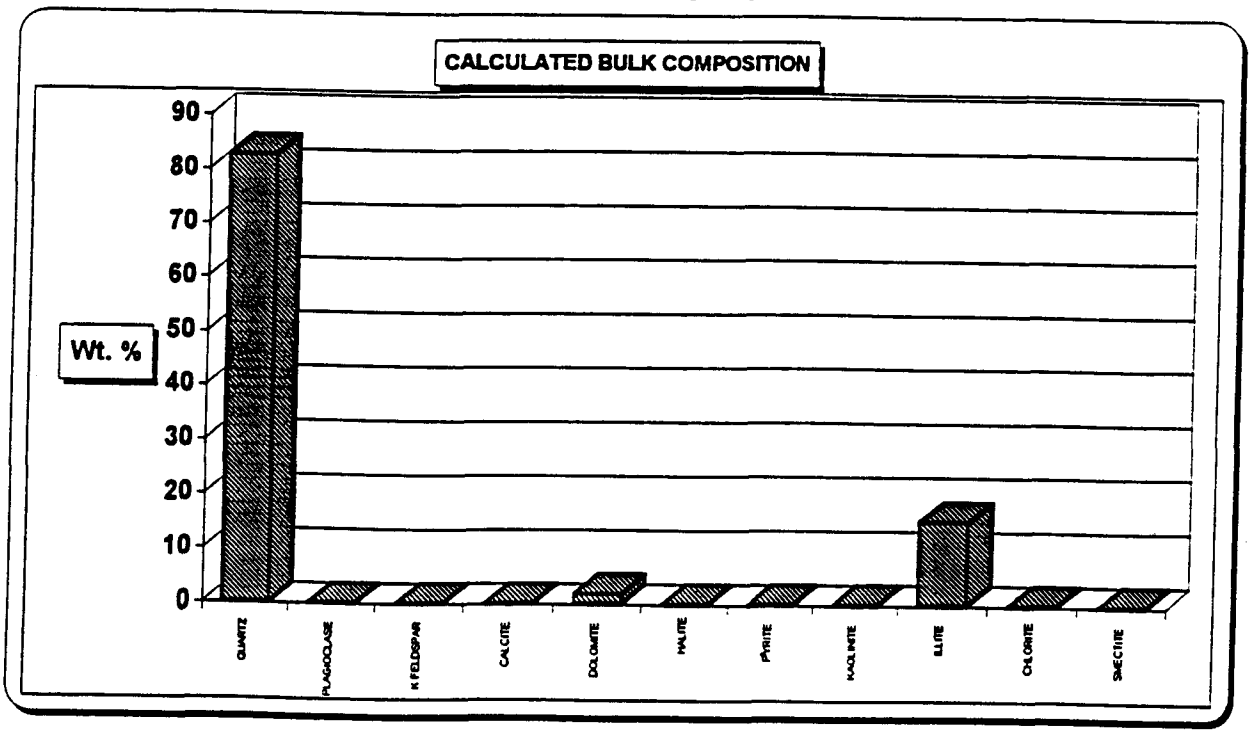
		WHOLE SAMPLE BULK ANALYSIS (wt.%)
QUARTZ	(SiO_2)	5
PLAGIOCLASE	($NaAlSi_3O_8$ - $CaAl_2Si_2O_8$)	0
K FELDSPAR	($KAlSi_3O_8$)	0
CALCITE	($CaCO_3$)	0
DOLOMITE	($[Ca\ Mg]CO_3$)	0
HALITE	(NaCl)	95
PYRITE	(FeS_2)	0
KAOLINITE	($Al_2Si_2O_5[OH]_4$)	0
ILLITE	($KAl_2[AlSi_3O_{10}][OH]_2$)	0
CHLORITE	($[MgFeAl]_6[AlSi]_4O_{10}[OH]_8$)	0
SMECTITE	$[CaNa][AlMgFe]_4[SiAl]_8O_{20}[OH]_4$-$nH_2O$	0



X-RAY DIFFRACTION ANALYSIS

COMPANY: HUNT OIL COMPANY
SAMPLE: PORT AU PORT #1 WEST NEWFOUNDLAND
SUSPENDED SOLIDS - WASHED TO REMOVE SALT
FILE NO: 52131-94-3500-1

		WHOLE SAMPLE BULK ANALYSIS (wt.%)
QUARTZ	(SiO_2)	83
PLAGIOCLASE	($NaAlSi_3O_8$ - $CaAl_2Si_2O_8$)	0
K FELDSPAR	($KAlSi_3O_8$)	0
CALCITE	($CaCO_3$)	0
DOLOMITE	([Ca Mg]CO_3)	2
HALITE	(NaCl)	0
PYRITE	(FeS_2)	0
KAOLINITE	($Al_2Si_2O_5[OH]_4$)	0
ILLITE	($KAl_2[AlSi_3O_{10}][OH]_2$)	15
CHLORITE	($[MgFeAl]_6[AlSi]_4O_{10}[OH]_8$)	0
SMECTITE	$[CaNa][AlMgFe]_4[SiAl]_8O_{20}[OH]_4$-$nH_2O$	0



CORELAB

CORE LABORATORIES

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QUALITY - A CONTINUING COMMITMENT AT CORE LABORATORIES

TO:
COMPANY: HUNT OIL DATE: 95 05 11

ATTN: DAVE LUTTNER *COPIES: 1

FAX NO.: 1-214-978-8888

FROM:
COMPANY: CORE LABORATORIES

NAME: MYRON BOLDING

PHONE #: (403) 250-4039

PAGES: 8 (Including this page)

*Additional Instructions:

- ☒ Please distribute copies to the persons indicated above from your location.
- ☐ No action necessary.
- ☐ Reply requested by _____.

Fluid Results - "WATER ANALYSIS"

Resistivities still under review!

95 05 11

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Quality

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WATER ANALYSIS

209
CONTAINER IDENTITY

52134-95-3759
LABORATORY NUMBER

Hunt Oil Company
OPERATOR

1 of 7
PAGE

LOCATION

Hunt PanCanadian Port au Port #1
WELL OR SAMPLE LOCATION

KB ELEV. (m) GR ELEV. (m

FIELD OR AREA

Zone #1
POOL OR ZONE

Solid Resources Ltd.
SAMPLER

TEST TYPE & NO.

TEST RECOVERY

1-1
POINT OF SAMPLE

AMT. & TYPE CUSHION

@ °C
MUD RESISTIVITY

PUMPING FLOWING GAS LIFT SWAB

WATER m³/d OIL m³/d GAS m³/d

TEST INTERVAL (meters)

SEPARATOR RESERVOIR

@ °C
CONTAINER WHEN SAMPLED

@ °C
CONTAINER WHEN RECEIVED

SEPARATOR

Pressures, kPa (gauge)

Temperatures, °C

95 04 06
DATE SAMPLED (Y/M/D)

95 05 04
DATE RECEIVED (Y/M/D)

95 05 10
DATE ANALYZED (Y/M/D)

NR/JT
ANALYST

SIGNATURE

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	44500	0.1656	1935.6
K	2670	0.0099	68.3
Ca	45700	0.1701	2280.4
Mg	5770	0.0215	474.8
Ba	18	0.0001	0.3
Sr	2130	0.0079	48.6
Fe	33	0.0001	1.2
Mn	16	0.0001	0.6

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	167289	0.6227	4718.5
Br			
I			
HCO_3	105	0.0004	1.7
SO_4	422	0.0016	8.8
CO_3	0	0.0000	0.0
OH	0	0.0000	0.0
H_2S	N.D		

Total Solids
(mg/L)

By Evaporation @ 110 °C

By Evaporation @ 180 °C

At Ignition

268653
Calculated

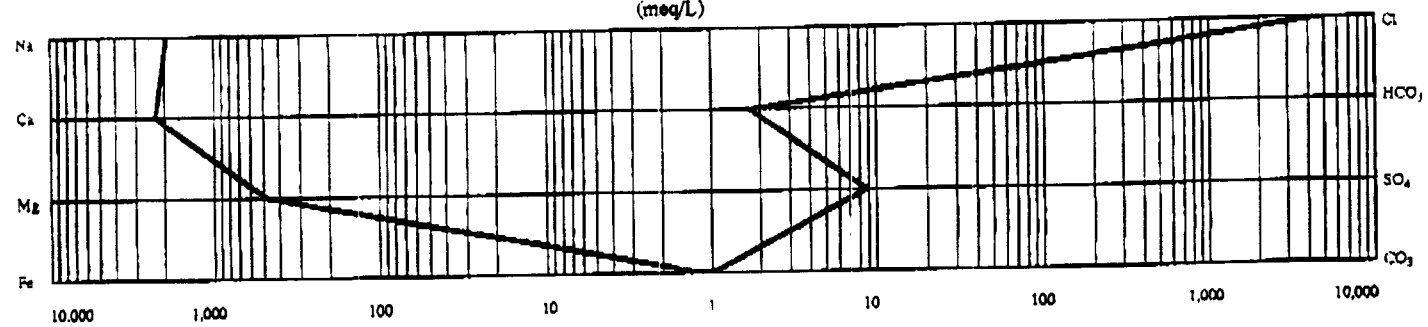
1.1977 @ 15.6 °C
Specific Gravity

1.3805 @ 23 °
Refractive Index

5.7
pH

0.060 @ 25 °
Resistivity (Ohm-Meters

LOGARITHMIC PATTERNS OF DISSOLVED IONS
(meq/L)



Remarks: N.D. - Not Detected.

Pres. - Analyte Present.

WATER ANALYSIS

210
CONTAINER IDENTITY

52134-95-3759
LABORATORY NUMBER

2 of 7
PAGE

Hunt Oil Company
OPERATOR

LOCATION

Hunt PanCanadian Port au Port #1
WELL OR SAMPLE LOCATION

KB ELEV. (m) GR ELEV. (r

FIELD OR AREA

F Zone #1
POOL OR ZONE

Solid Resources Ltd.
SAMPLER

TEST TYPE & NO.

TEST RECOVERY

1-2 Frac Manifold
POINT OF SAMPLE

AMT. & TYPE CUSHION

@ °C
MUD RESISTIVITY

TEST INTERVAL (meters)

PUMPING FLOWING GAS LIFT SWAB

WATER m^3/d OIL m^3/d GAS m^3/d

Pressures, kPa (gauge)

SEPARATOR RESERVOIR @ °C CONTAINER WHEN SAMPLED @ °C CONTAINER WHEN RECEIVED

Temperatures, °C

SEPARATOR

95 04 06
DATE SAMPLED (Y/M/D)

95 05 04
DATE RECEIVED (Y/M/D)

95 05 10
DATE ANALYZED (Y/M/D)

NR/JT
ANALYST

SIGNATURE

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	43100	0.1599	1874.7
K	2600	0.0096	66.5
Ca	46000	0.1707	2295.4
Mg	5700	0.0211	469.0
Ba	19	0.0001	0.3
Sr	2120	0.0079	48.4
Fe	35	0.0001	1.3
Mn	16	0.0001	0.6

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	169456	0.6287	4779.7
Br			
I			
HCO_3	109	0.0004	1.8
SO_4	397	0.0015	8.3
CO_3	0	0.0000	0.0
OH	0	0.0000	0.0
H_2S	N.D		

Total Solids (mg/L)

By Evaporation @ 110 °C

By Evaporation @ 180 °C

269552
Calculated

At Ignition

1.1982 @ 15.6 °C
Specific Gravity

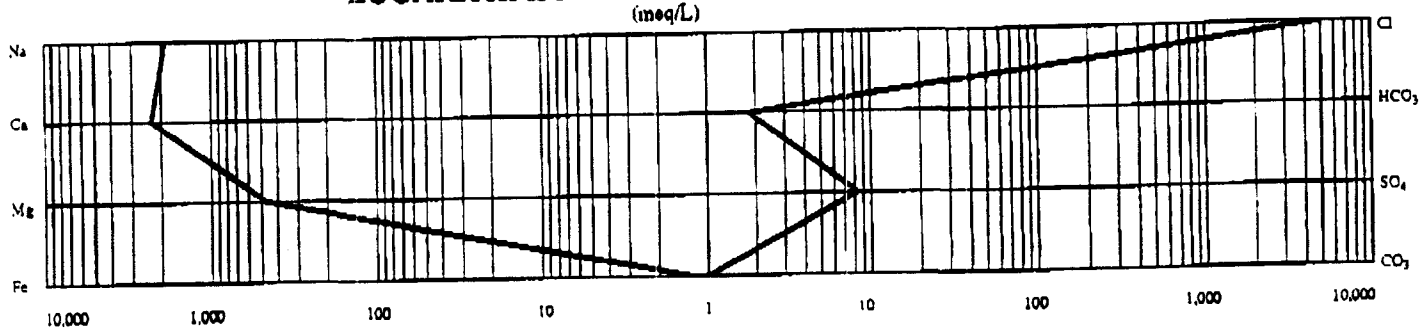
1.3805 @ 23
Refractive Index

5.7
pH

0.061 @ 25
Resistivity (Ohm-Meter

LOGARITHMIC PATTERNS OF DISSOLVED IONS

(meq/L)



Remarks: N.D. - Not Detected.

Pres. - Analyte Present.

WATER ANALYSIS

211
CONTAINER IDENTITY

52134-95-3759
LABORATORY NUMBER

Hunt Oil Company
OPERATOR

3 of 7
PAGE

LOCATION

Hunt PanCanadian Port au Port #1
WELL OR SAMPLE LOCATION

KB ELEV. (m) GR ELEV. (m

FIELD OR AREA

Zone #2
POOL OR ZONE

Solid Resources Ltd.
SAMPLER

TEST TYPE & NO.

TEST RECOVERY

2-1 Frac Manifold NFLD Project #1
POINT OF SAMPLE

AMT. & TYPE CUSHION

@ °C
MUD RESISTIVITY

PUMPING FLOWING GAS LIFT SWAB

WATER m^3/d OIL m^3/d GAS m^3/d

TEST INTERVAL (meters)

SEPARATOR RESERVOIR @ °C CONTAINER WHEN SAMPLED @ °C CONTAINER WHEN RECEIVED

Pressures, kPa (gauge)

SEPARATOR

Temperatures, °C

95 04 09
DATE SAMPLED (Y/M/D)

95 05 04
DATE RECEIVED (Y/M/D)

95 05 10
DATE ANALYZED (Y/M/D)

NR/JT
ANALYST

SIGNATURE

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	47800	0.1381	2079.2
K	4070	0.0118	104.1
Ca	62900	0.1818	3138.7
Mg	8570	0.0248	705.2
Ba	37	0.0001	0.5
Sr	3000	0.0087	68.5
Fe	60	0.0002	2.1
Mn	13	0.0000	0.5

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	219606	0.6346	6194.3
Br			
I			
HCO_3	11	0.0000	0.2
SO_4	6	0.0000	0.1
CO_3	0	0.0000	0.0
OH	0	0.0000	0.0
H_2S	N.D		

Total Solids (mg/L)

By Evaporation @ 110 °C

By Evaporation @ 180 °C

At Ignition

346073
Calculated

1.2507 @ 15.6 °C
Specific Gravity

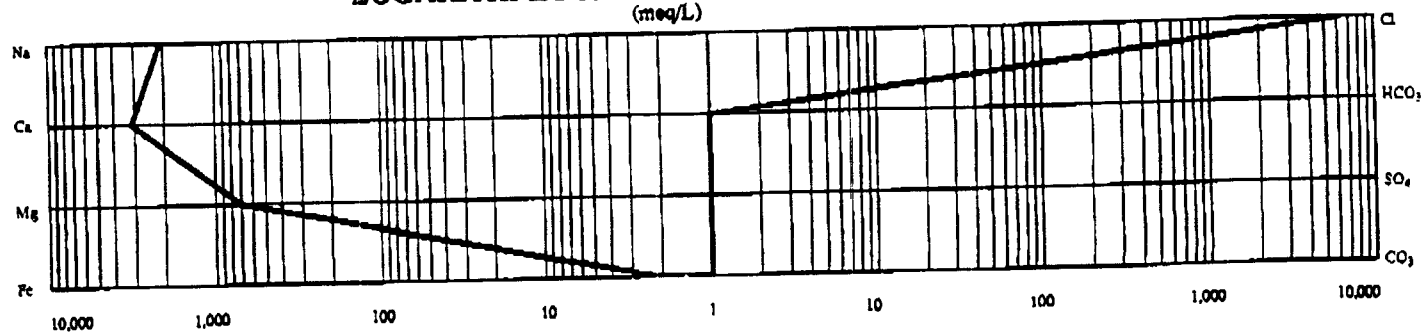
1.3942 @ 23 °C
Refractive Index

4.8
pH

0.061 @ 25 °C
Resistivity (Ohm-Meter

LOGARITHMIC PATTERNS OF DISSOLVED IONS

(meq/L)



Remarks: N.D. - Not Detected.

Pres. - Analyte Present.

WATER ANALYSIS

212
CONTAINER IDENTITY

52134-95-3759
LABORATORY NUMBER

Hunt Oil Company
OPERATOR

4 of 7
PAGE

Hunt PanCanadian Port au Port #1
LOCATION / WELL OR SAMPLE LOCATION

KB ELEV. (m) GR ELEV. (m

Zone #2
FIELD OR AREA / POOL OR ZONE

Solid Resources Ltd.
SAMPLER

TEST TYPE & NO. TEST RECOVERY

2-2 Frac Manifold NFLD Project #1
POINT OF SAMPLE

AMT. & TYPE CUSHION

@ °C
MUD RESISTIVITY

TEST INTERVAL (meters)

PUMPING FLOWING GAS LIFT SWAB

WATER m³/d OIL m³/d GAS m³/d

SEPARATOR RESERVOIR @ °C CONTAINER WHEN SAMPLED @ °C CONTAINER WHEN RECEIVED

Pressures, kPa (gauge)

SEPARATOR

Temperatures, °C

95 04 09
DATE SAMPLED (Y/M/D)

95 05 04
DATE RECEIVED (Y/M/D)

95 05 10
DATE ANALYZED (Y/M/D)

NR/JT
ANALYST

SIGNATURE

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	46400	0.1353	2018.3
K	4070	0.0119	104.1
Ca	63300	0.1846	3158.7
Mg	8510	0.0248	700.3
Ba	36	0.0001	0.5
Sr	3000	0.0088	68.5
Fe	56	0.0002	2.0
Mn	13	0.0000	0.5

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	217434	0.6342	6133.0
Br			
I			
HCO_3	11	0.0000	0.2
SO_4	10	0.0000	0.2
CO_3	0	0.0000	0.0
OH	0	0.0000	0.0
H_2S	N.D		

Total Solids (mg/L)

By Evaporation @ 110 °C

By Evaporation @ 180 °C

At Ignition

342840
Calculated

1.2512 @ 15.6 °C
Specific Gravity

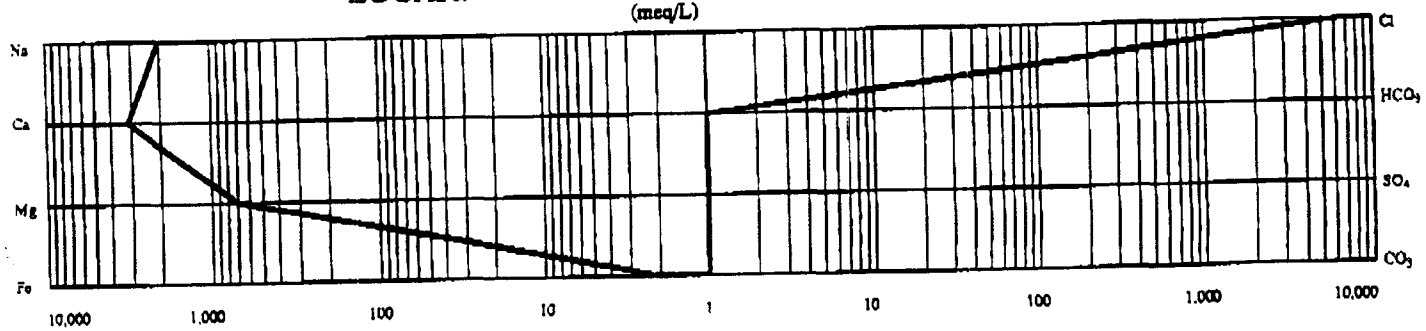
1.3948 @ 23 °C
Refractive Index

4.8
pH

0.061 @ 25 °C
Resistivity (Ohm-Meter

LOGARITHMIC PATTERNS OF DISSOLVED IONS

(meq/L)



Remarks: N.D. - Not Detected.

Pres. - Analyte Present.

WATER ANALYSIS

214 — CONTAINER IDENTITY

52134-95-3759 — LABORATORY NUMBER

Hunt Oil Company — OPERATOR

5 of 7 — PAGE

LOCATION

Hunt PanCanadian Port au Port #1 — WELL OR SAMPLE LOCATION

KB ELEV. (m) GR ELEV. (m

FIELD OR AREA

POOL OR ZONE

SAMPLER

DST #3 — TEST TYPE & NO.

TEST RECOVERY

3-10 Separator NFLD — POINT OF SAMPLE

AMT. & TYPE CUSHION

@ °C — MUD RESISTIVITY

TEST INTERVAL (meters)

PUMPING FLOWING GAS LIFT SWAB

WATER m³/d OIL m³/d GAS m³/d

SEPARATOR RESERVOIR @ °C CONTAINER WHEN SAMPLED @ °C CONTAINER WHEN RECEIVED

Pressures, kPa (gauge)

SEPARATOR

Temperatures, °C

21:45

95 04 14 — DATE SAMPLED (Y/M/D)

95 05 04 — DATE RECEIVED (Y/M/D)

95 05 10 — DATE ANALYZED (Y/M/D)

NR/JT — ANALYST

SIGNATURE

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	39800	0.1902	1731.2
K	1690	0.0081	43.2
Ca	32200	0.1539	1606.8
Mg	4600	0.0220	378.5
Ba	3.5	0.0000	0.1
Sr	1560	0.0075	35.6
Fe	2.6	0.0000	0.1
Mn	10	0.0000	0.4

ANIONS

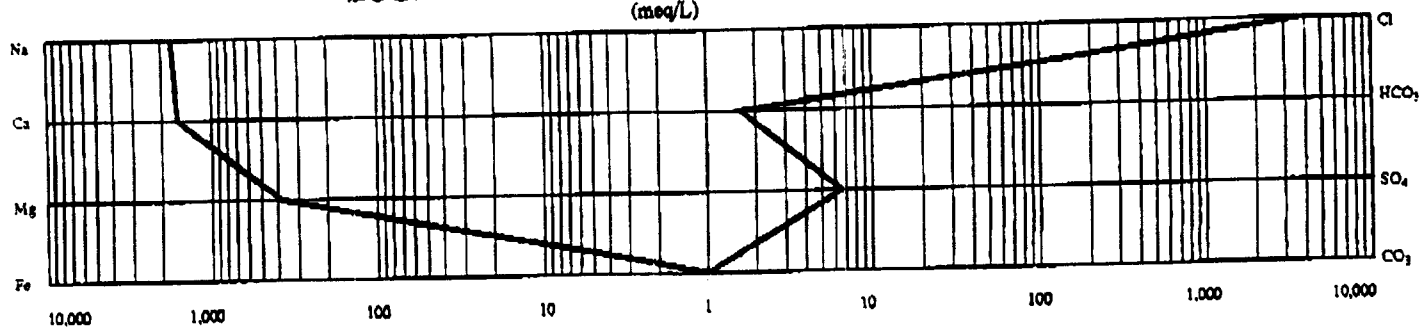
ION	mg/L	mg Fraction	meq/L
Cl	129007	0.6164	3638.8
Br			
I			
HCO_3	96	0.0005	1.6
SO_4	316	0.0015	6.6
CO_3	0	0.0000	0.0
OH	0	0.0000	0.0
H_2S	N.D		

Total Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C
At Ignition	209285 Calculated
1.1546 @ °C Specific Gravity	1.3694 @ 23 °C Refractive Index
6.2 pH	0.063 @ 25 °C Resistivity (Ohm-Meter)

LOGARITHMIC PATTERNS OF DISSOLVED IONS

(meq/L)



Remarks: N.D. - Not Detected.

Pres. - Analyte Present.

WATER ANALYSIS

218 — CONTAINER IDENTITY

52134-95-3759 — LABORATORY NUMBER

Hunt Oil Company — OPERATOR

6 of 7 — PAGE

LOCATION

Hunt PanCanadian Port au Port #1 — WELL OR SAMPLE LOCATION

KB ELEV. (m) GR ELEV. (m

FIELD OR AREA

POOL OR ZONE

CLE / RS — SAMPLER

DST #3 — TEST TYPE & NO.

TEST RECOVERY

3-19 B Seperator NFLD — POINT OF SAMPLE

AMT. & TYPE CUSHION

@ °C MUD RESISTIVITY

TEST INTERVAL (metres)

PUMPING FLOWING GAS LIFT SWAB

WATER m^3/d OIL m^3/d GAS m^3/d

SEPARATOR RESERVOIR @ °C CONTAINER WHEN SAMPLED @ °C CONTAINER WHEN RECEIVED

Pressures, kPa (gauge)

SEPARATOR

Temperatures, °C

12:40

95 04 15 — DATE SAMPLED (Y/M/D)

95 05 04 — DATE RECEIVED (Y/M/D)

95 05 10 — DATE ANALYZED (Y/M/D)

NR/JT — ANALYST

SIGNATURE

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	48000	0.1733	2087.9
K	2050	0.0074	52.4
Ca	44400	0.1603	2215.6
Mg	6340	0.0229	521.7
Ba	18	0.0001	0.3
Sr	2170	0.0078	49.5
Fe	16	0.0001	0.6
Mn	10	0.0000	0.4

ANIONS

ION	mg/L	mg Fraction	meq/L
Cl	173426	0.6263	4891.7
Br			
I			
HCO_3	72	0.0003	1.2
SO_4	408	0.0015	8.5
CO_3	0	0.0000	0.0
OH	0	0.0000	0.0
H_2S	N.D		

Total Solids (mg/L)

By Evaporation @ 110 °C

By Evaporation @ 180 °C

At Ignition

276910 Calculated

1.2028 @ 15.6 °C Specific Gravity

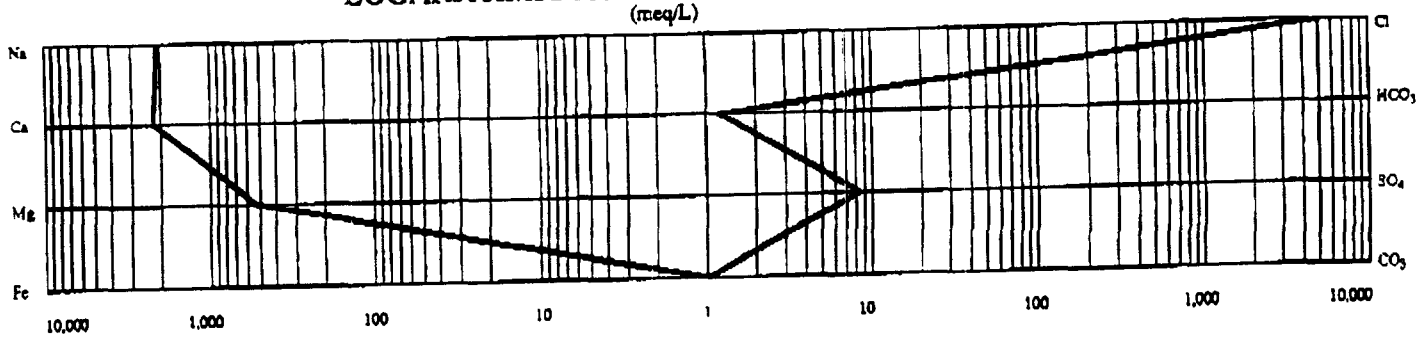
1.3817 @ 23 ° Refractive Index

5.3 pH

0.060 @ 25 ° Resistivity (Ohm-Meter)

LOGARITHMIC PATTERNS OF DISSOLVED IONS

(meq/L)



Remarks: N.D. - Not Detected.

Pres. - Analyte Present.

WATER ANALYSIS

264
CONTAINER IDENTITY

52134-95-3759
LABORATORY NUMBER

Hunt Oil Company
OPERATOR

7 of 7
PAGE

LOCATION

Hunt PanCanadian Port au Port #1
WELL OR SAMPLE LOCATION

KB ELEV. (m) GR ELEV. (m

FIELD OR AREA

Zone #1
POOL OR ZONE

Solid Resources Ltd.
SAMPLER

TEST TYPE & NO.

TEST RECOVERY

4-2 Separator
POINT OF SAMPLE

AMT. & TYPE CUSHION

@ °C
MUD RESISTIVITY

TEST INTERVAL (meters)

PUMPING FLOWING GAS LIFT SWAB

WATER m³/d OIL m³/d GAS m³/d

SEPARATOR RESERVOIR @ °C CONTAINER WHEN SAMPLED @ °C CONTAINER WHEN RECEIVED

Pressures, kPa (gauge)

SEPARATOR

Temperatures, °C

95 04 20
DATE SAMPLED (Y/M/D)

95 05 08
DATE RECEIVED (Y/M/D)

95 05 10
DATE ANALYZED (Y/M/D)

NR/JT
ANALYST

SIGNATURE

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	44000	0.1669	1913.9
K	2110	0.0080	54.0
Ca	42400	0.1608	2115.8
Mg	5930	0.0225	488.0
Ba	26	0.0001	0.4
Sr	2060	0.0078	47.0
Fe	60	0.0002	2.1
Mn	13	0.0000	0.5

ANIONS

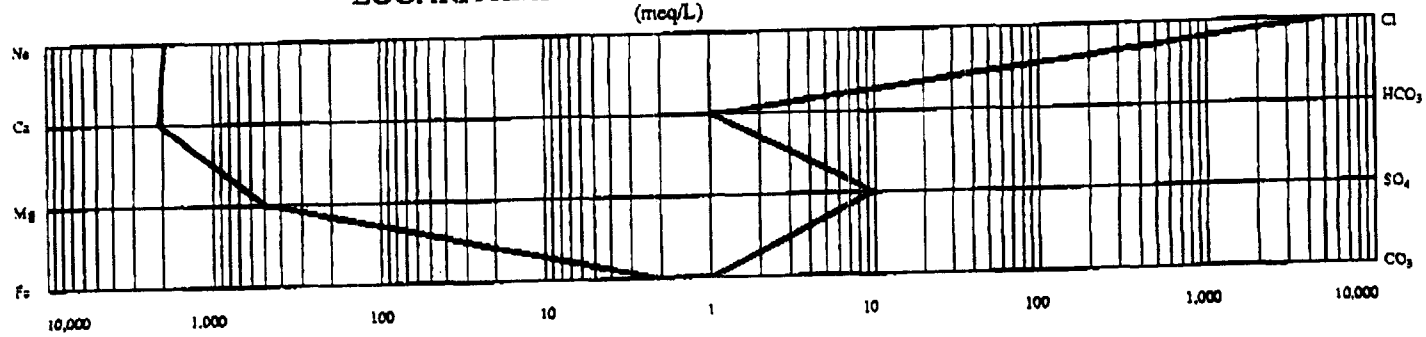
ION	mg/L	mg Fraction	meq/L
Cl	166558	0.6317	4698.0
Br			
I			
HCO_3	57	0.0002	0.9
SO_4	465	0.0018	9.7
CO_3	0	0.0000	0.0
OH	0	0.0000	0.0
H_2S	N.D		

Total Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C
At Ignition	263679 Calculated
1.1948 @ 15.6 °C Specific Gravity	1.3800 @ 23 Refractive Index
5.4 pH	0.062 @ 25 Resistivity (Ohm-Meter

LOGARITHMIC PATTERNS OF DISSOLVED IONS

(meq/L)



Remarks: N.D. - Not Detected.

Pres. - Analyte Present.

FINAL WELL REPORT

NHOC/PanCanadian Port au Port No. 1

APPENDIX V

PRODUCTION TEST DATA

V - 6 DST #1, Field Data ..... NHOC

NEWFOUNDLAND HUNT OIL COMPANY INC.

JULY 1996

Guiberson · AVA | DRESSER

Technical School

TEST #1

PERF: 12961.5 - 12948.6 ; 12914.8 - 12901.8
12862.8 - 12848.8 MPP 3133.4

ACID: 34.5 BBLS 28% HCL

PACKER @ 12558.8'

JET @ 900 SCFPM N_2 @ 2200 BWPD

JETTED FOR: 11 1/2 HR @ 900 SCFPM

SHUT-IN: 7 HR

SALINITY: 115,000 Cl PPM, 18,000 PPM CAL 18.8# GAL.

P^* 6396 psia @ 12523905

EQUIVT = 9.53

6208

Z.I.PROBES FIELD REPORT

Please fill this page out completely. Indicate N/A when information is not available to you.
Return this form with our probes. Thanks! See backside for important info.

Oil Co. Hunt Oil | Job No.

Z.I.Probes should send reports to:
Name Solid Resources Phone 237-6058
Address Don Mackermatt #409 734 7th St S.W Calgary Alta

Service Company Solid Resources

Representative Will Stordy | Phone 709-644-2350

Well Name Hunt Oil - Port-au-Port #1

Well Location (LSD) Port-au-Port, NFLD

Field — | Pool —

% H2S Sour — | Type of inhibitor used: —

Status: ☐ Oil ☐ ~~Gas~~ ☐ Other:

Type of Test:
☒ Flow and Buildup ☐ Static Gradient
☐ Interference Other:

Static Gradient Depth Table ☐ mKB ☐ mCF

Step	Depth	Start Time of Step	End Time of Step

Producing Interval (Perfs of interest) N/A ☐ mKB ☐ mCF

Midpoint of Perfs (MPP of interest) NA ☐ mKB ☐ mCF

Casing Flange CF — m | KB-CF — m

Kelly Bushing KB — m | Ground Level GL — m

Plugged Back Total Depth (PBTD) — ☐ mKB ☐ mCF

Total Depth (TD) — ☐ mKB ☐ mCF

Production Casing mm | Production Tubing mm

Shut in Dates/Durations

TUBING dead weight — Dates/Times — Pressure

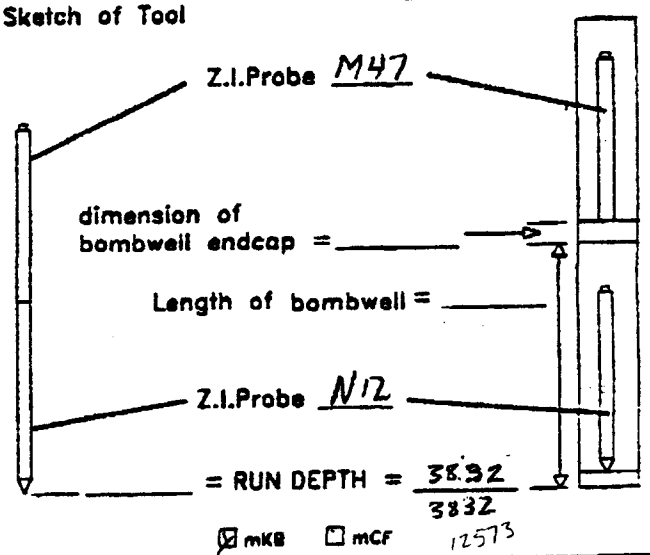
CASING dead weight — Dates/Times — Pressure

Date/Time On Bottom: 5 April, 95 16:44:00

Date/Time Off Bottom: 6 April, 95 15:38:00

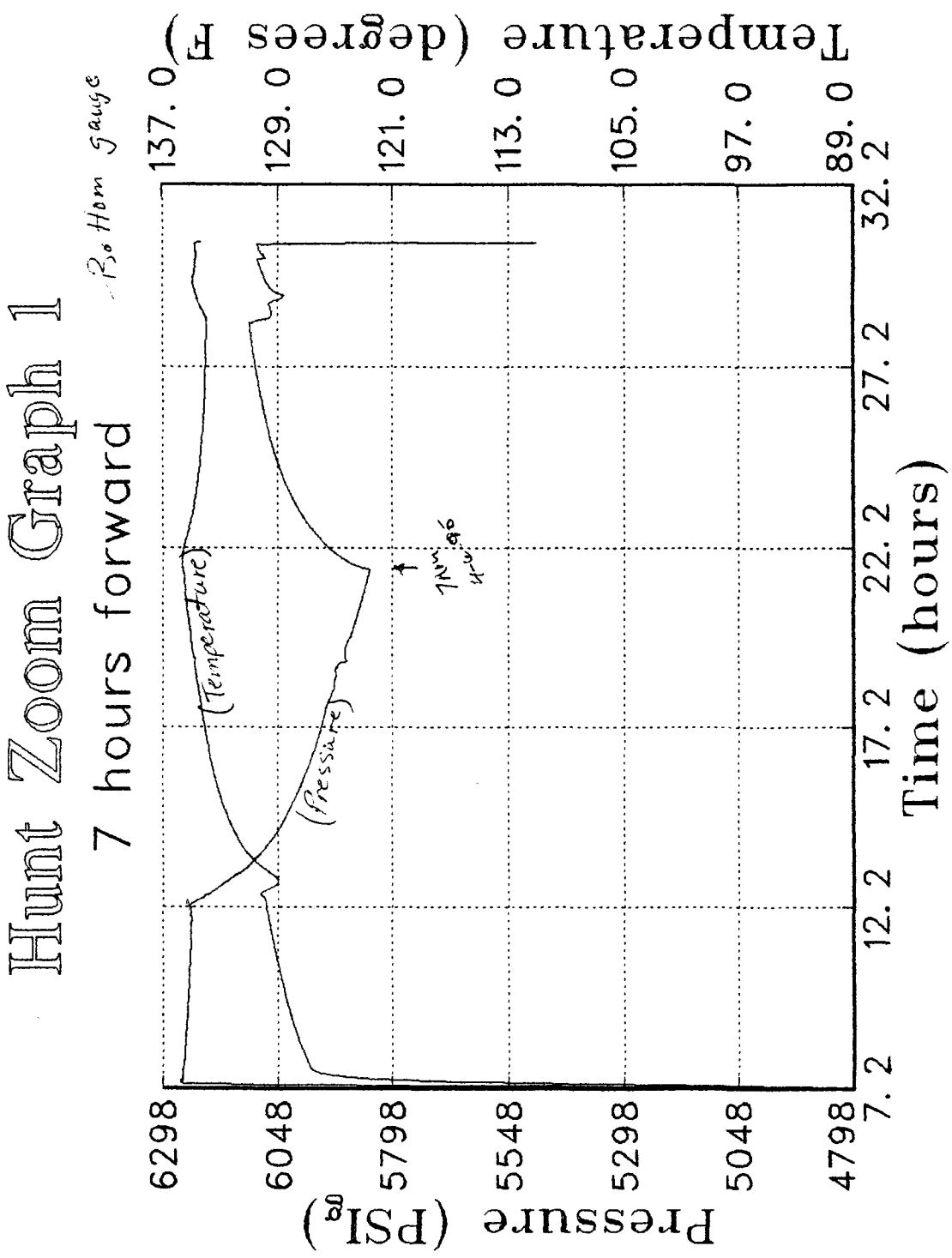
If Bombwells Used:

Sketch of Tool



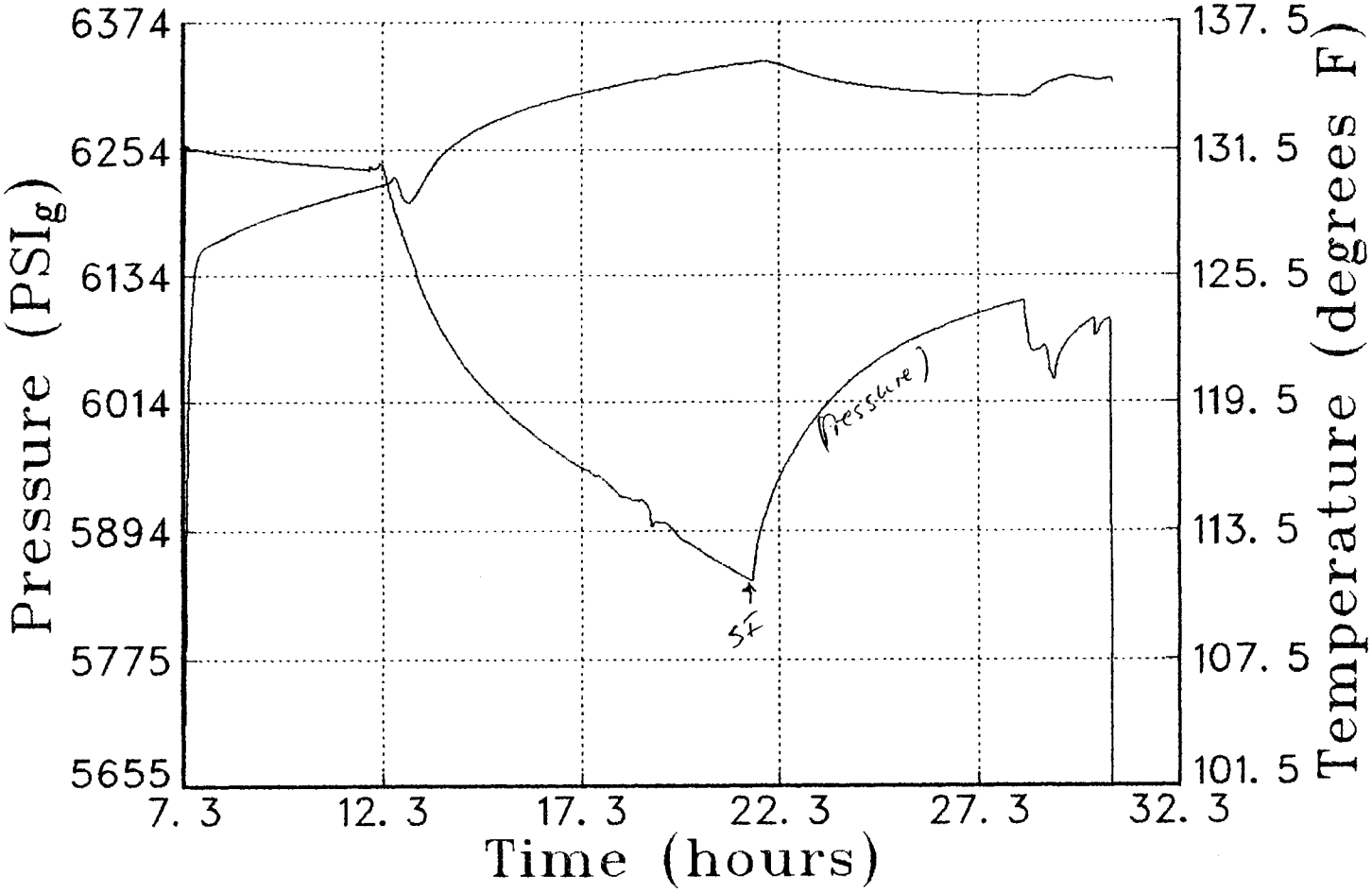
Test #1

ZIPGRAPH 3. 1b6 for Z. I. Probes, Edmonton Apr. 6, 1995 20:57:55



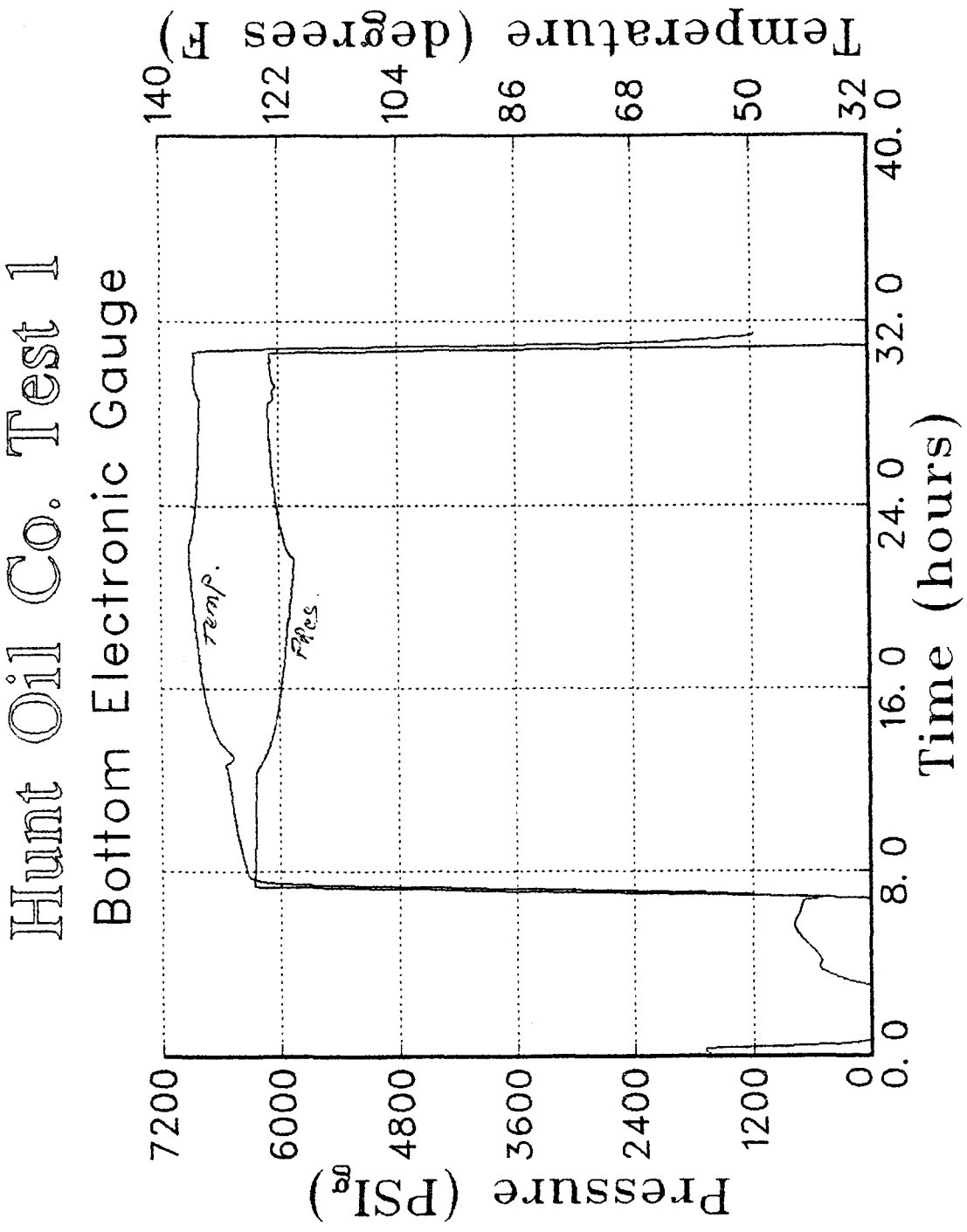
Hunt Oil Test 1

Bottom Electronic Gauge – Upper Pressure Zone

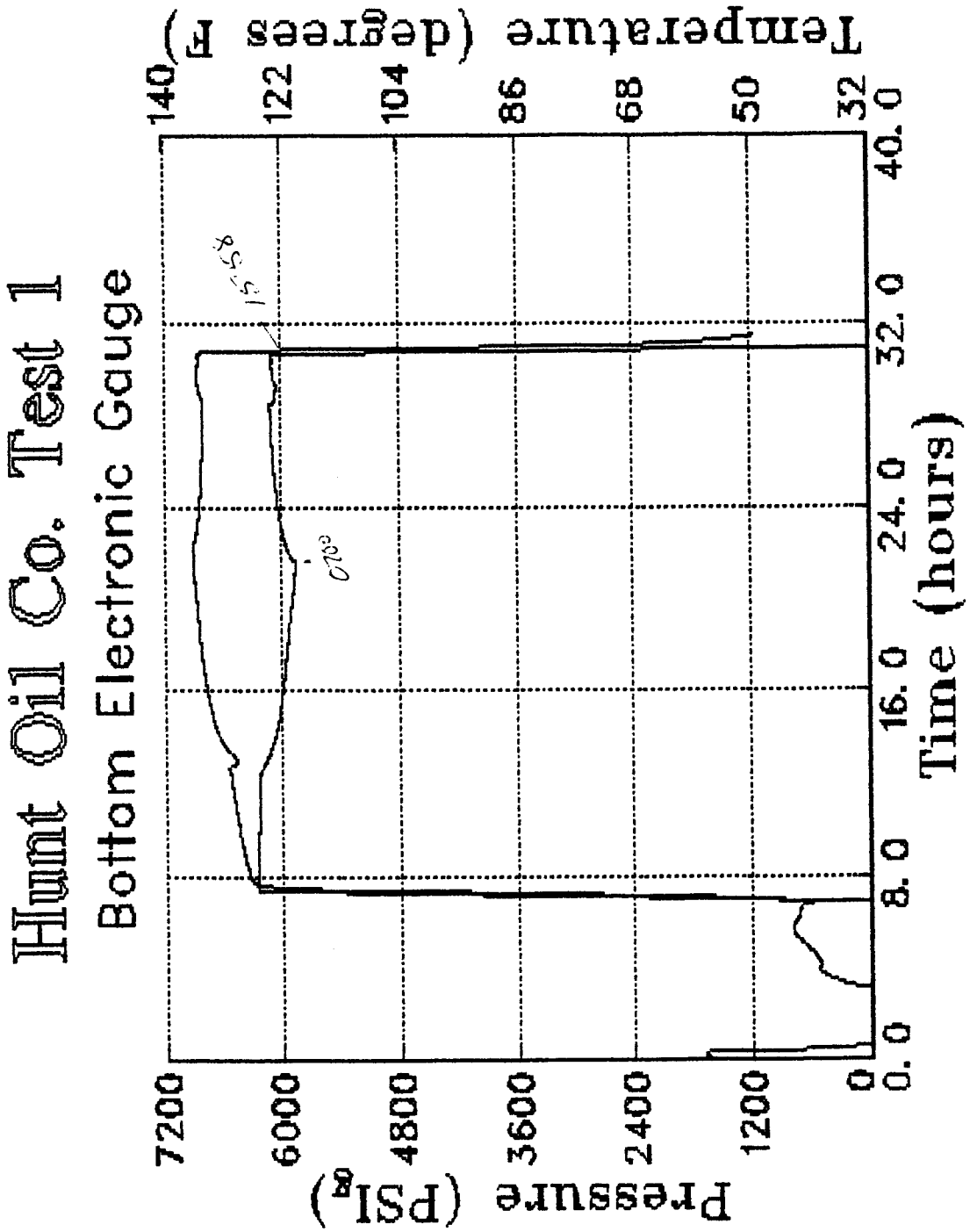


ZIPGRAPH 3.1b6 for Z.I. Probes, Edmonton Apr. 6, 1995 21:42:16

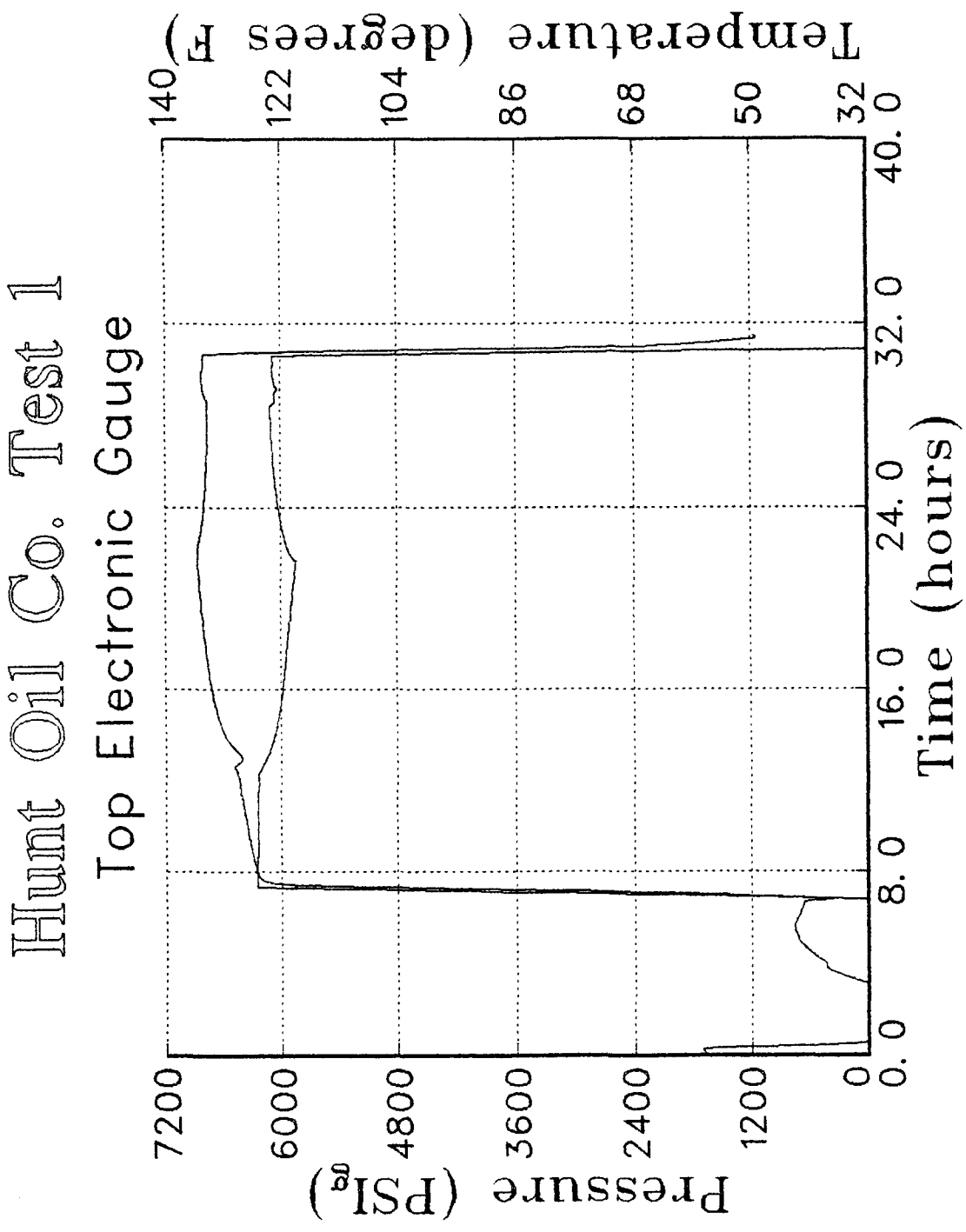
ZIPGRAPH 3. 1b6 for Z. I. Probes, Edmonton Apr. 6, 1995 21:05:18



ZIPGRAPH 5.1b6 for Z. I. Probes, Edmonton Apr. 6, 1995 20:44:17



ZIPGRAPH 3. 1b6 for Z. I. Probes, Edmonton Apr. 6, 1995 20:52:32



Time	Pressure (psig)	Temperature (degrees F)
Wed Apr 05, 1995		
18:46:40	6245.204	128.2536
18:56:40	6244.418	128.3679
19:06:40	6243.799	128.4741
19:16:40	6243.003	128.5730
19:26:40	6242.358	128.6718
19:36:40	6241.747	128.7788
19:46:40	6241.147	128.8761
19:56:40	6240.543	128.9736
20:06:40	6239.949	129.0714
20:16:40	6239.340	129.1648
20:26:40	6238.816	129.2557
20:36:40	6238.257	129.3439
20:46:40	6237.791	129.4266
20:56:40	6237.215	129.5043
21:06:40	6236.727	129.5859
21:16:40	6236.329	129.6680
21:26:40	6236.578	129.7420
21:36:00	6242.397	129.8186
21:44:00	6232.158	129.8989
21:49:00	6219.752	129.9587
21:54:30	6207.869	130.1406
22:00:40	6193.542	130.0810
22:10:10	6175.673	129.2584
22:16:40	6162.780	129.0355
22:23:20	6151.806	129.1344
22:29:10	6141.690	129.3867
22:33:30	6131.136	129.6169
22:38:30	6121.808	129.8903
22:44:20	6112.544	130.2081
22:51:20	6103.696	130.5793
22:58:50	6094.915	130.9179
23:07:00	6085.100	131.2143
23:16:40	6074.953	131.4962
23:26:30	6065.173	131.7477
23:36:40	6055.107	131.9814
23:46:40	6046.349	132.1855
23:56:40	6038.375	132.3733
Thu Apr 06, 1995		
00:06:40	6031.094	132.5444
00:16:40	6024.341	132.7010
00:26:40	6017.723	132.8443
00:36:40	6011.199	132.9774
00:46:40	6005.156	133.1053
00:56:40	5998.876	133.2296
01:06:40	5993.730	133.3438
01:16:40	5988.778	133.4577
01:26:40	5983.574	133.5585
01:36:40	5978.603	133.6541
01:46:40	5974.101	133.7477
01:56:40	5969.890	133.8377
02:06:40	5965.727	133.9191
02:16:40	5961.414	134.0032
02:26:40	5957.362	134.0802
02:36:40	5953.799	134.1545
02:46:40	5950.568	134.2293
02:56:40	5946.259	134.2951
03:06:40	5945.177	134.3605
03:16:40	5939.662	134.4240
03:26:40	5933.981	134.4848
03:36:40	5927.758	134.5545
03:46:40	5925.406	134.6329
03:56:40	5923.207	134.7081
04:06:40	5921.920	134.7641
04:16:40	5919.546	134.8062
04:23:50	5906.987	134.8404
04:31:40	5902.633	134.8775
04:41:40	5901.842	134.9708
04:51:40	5899.883	135.0280
05:01:40	5893.451	135.0574
05:11:40	5886.807	135.0942
05:21:40	5883.021	135.1520
05:31:40	5879.546	135.2152
05:41:40	5875.294	135.2669
05:51:40	5870.895	135.3153
06:01:40	5867.113	135.3634
06:11:40	5863.896	135.4096
06:21:40	5860.703	135.4541
06:31:40	5857.099	135.4927
06:41:40	5853.438	135.5321
06:51:40	5850.072	135.5724
07:00:50	5851.106	135.6094
07:03:10	5866.346	135.6264
07:06:30	5879.498	135.6414
07:11:00	5892.594	135.6590
07:16:00	5904.257	135.6591
07:22:10	5916.424	135.6456
07:28:50	5927.828	135.6062
07:36:20	5939.013	135.5398
07:44:40	5950.034	135.4527
07:53:40	5960.752	135.3498
08:03:40	5971.560	135.2423
08:13:40	5981.435	135.1322
08:23:40	5990.395	135.0355
08:33:40	5998.806	134.9470
08:43:40	6006.411	134.8680

Vol

1-2 102.22 Bbls

2-3 83.72 Bbls

3-4 88.75 Bbls

4-5 80.45 Bbls

5-6 94.2 Bbls

6-7 84.4 Bbls

10-11 = 97.11 Bbls

11-12 = 120.5 Bbls

12-1 = 93.15 Bbls

1-2 = 105.22 Bbls

2-3 = 83.72 Bbls

3-4 = 88.75 Bbls

4-5 = 80.45 Bbls

5-6 = 94.2 Bbls

6-7 = 84.4 Bbls

Salinity PPM

10AM - 197,334

12 197,334

2:45 - 248,884

5:15 - 248,884

07:00 - 248,884

Data Listing: Every 10th point of the generic data file.

Probe Number: 10,000psi
Company: Hunt Oil
Well: NFLD
Location: -
Test Date(s): April 6,1995

Time	Pressure (psig)	Temperature (degrees F)
Wed Apr 05, 1995		
09:20:30	2.022	56.6025
09:30:40	2.018	57.1237
09:40:40	1.936	51.4920
09:50:40	2.163	35.3491
10:00:40	2.045	32.0000
10:10:40	1.748	32.0000
10:20:40	1.567	32.0000
10:30:40	1.547	32.0000
10:40:40	1.516	32.0000
10:50:40	1.510	32.0000
11:00:40	1.504	32.0000
11:10:40	1.502	32.0000
11:20:40	1.538	32.0000
11:30:40	1.520	32.0000
11:40:40	1.572	32.0000
11:50:40	1.563	32.0000
12:00:40	1.611	32.0000
12:10:40	1.663	32.0000
12:20:40	2.106	32.0000
12:30:40	2.255	34.4299
12:40:40	2.323	36.3193
12:50:40	2.247	37.8739
13:00:40	2.272	39.0848
13:10:40	2.231	39.7417
13:20:40	2.205	39.5334
13:30:40	2.211	39.5335
13:40:40	2.180	39.8887
13:50:40	2.212	40.3471
14:00:40	2.219	40.8742
14:10:40	2.155	41.4722
14:20:40	2.207	42.0951
14:30:40	2.214	42.6637
14:40:40	2.207	43.1310
14:50:40	2.185	43.5055
15:00:40	2.199	43.6159
15:10:40	2.164	43.4483
15:20:40	2.189	43.1440
15:30:40	2.189	42.8540
15:40:40	2.165	42.6872
15:50:40	2.161	42.5065
16:00:40	2.187	42.2895
16:10:40	66.517	39.6883
16:12:20	312.672	41.0525
16:14:00	582.193	43.4340
16:15:40	750.324	45.9380
16:17:20	985.964	48.2100
16:19:00	1321.994	50.3604
16:20:40	1716.372	52.7912
16:22:20	2038.869	55.3472
16:24:00	2413.242	58.0983
16:25:40	2817.627	61.3194
16:27:20	3253.364	65.0581
16:29:00	3712.471	69.5660
16:30:40	3915.572	74.7811
16:32:20	4193.190	79.9294
16:34:00	4520.352	84.9910
16:35:40	4873.502	90.0518
16:37:20	5256.925	95.0199
16:39:00	5655.740	99.9823
16:40:40	6061.855	105.1727
16:42:20	6235.591	110.2548
16:44:10	6258.778	115.1000
16:45:50	6256.996	118.2840
16:47:30	6258.601	120.5080
16:49:10	6255.213	122.0762
16:52:30	6255.613	124.1211
16:57:00	6255.526	125.6421
17:06:40	6254.672	126.7043
17:16:40	6253.464	126.9356
17:26:40	6252.406	127.1063
17:36:40	6251.383	127.2675
17:46:40	6250.418	127.4412
17:56:40	6249.441	127.5954
18:06:40	6248.628	127.7401
18:16:40	6247.682	127.8731
18:26:40	6246.782	128.0029
18:36:40	6245.966	128.1341

Data Listing: Every 10th point of the generic data file.

Probe Number: 10,000psi
Company: Hunt Oil
Well: NFLD
Location: -
Test Date(s): April 6,1995

Add 3.5 hrs

Time	Pressure (psig)	Temperature (degrees F)
Wed Apr 05, 1995		
09:20:30	2.022	56.6025
09:30:40	2.018	57.1237
09:40:40	1.936	51.4920
09:50:40	2.163	35.3491
10:00:40	2.045	32.0000
10:10:40	1.748	32.0000
10:20:40	1.567	32.0000
10:30:40	1.547	32.0000
10:40:40	1.516	32.0000
10:50:40	1.510	32.0000
11:00:40	1.504	32.0000
11:10:40	1.502	32.0000
11:20:40	1.538	32.0000
11:30:40	1.520	32.0000
11:40:40	1.572	32.0000
11:50:40	1.563	32.0000
12:00:40	1.611	32.0000
12:10:40	1.663	32.0000
12:20:40	2.106	32.0000
12:30:40	2.255	34.4299
12:40:40	2.323	36.3193
12:50:40	2.247	37.8739
13:00:40	2.272	39.0848
13:10:40	2.231	39.7417
13:20:40	2.205	39.5334
13:30:40	2.211	39.5335
13:40:40	2.180	39.8887
13:50:40	2.212	40.3471
14:00:40	2.219	40.8742
14:10:40	2.155	41.4722
14:20:40	2.207	42.0951
14:30:40	2.214	42.6637
14:40:40	2.207	43.1310
14:50:40	2.185	43.5055
15:00:40	2.199	43.6159
15:10:40	2.164	43.4483
15:20:40	2.189	43.1440
15:30:40	2.189	42.8540
15:40:40	2.165	42.6872
15:50:40	2.161	42.5065
16:00:40	2.187	42.2895
16:10:40	66.517	39.6883
16:12:20	312.672	41.0525
16:14:00	582.193	43.4340
16:15:40	750.324	45.9380
16:17:20	985.964	48.2100
16:19:00	1321.994	50.3604
16:20:40	1716.372	52.7912
16:22:20	2038.869	55.3472
16:24:00	2413.242	58.0983
16:25:40	2817.627	61.3194
16:27:20	3253.364	65.0581
16:29:00	3712.471	69.5660
16:30:40	3915.572	74.7811
16:32:20	4193.190	79.9294
16:34:00	4520.352	84.9910
16:35:40	4873.502	90.0518
16:37:20	5256.925	95.0199
16:39:00	5655.740	99.9823
16:40:40	6061.855	105.1727
16:42:20	6235.591	110.2548
16:44:10	6258.778	115.1000
16:45:50	6256.996	118.2840
16:47:30	6258.601	120.5080
16:49:10	6255.213	122.0762
16:52:30	6255.613	124.1211
16:57:00	6255.526	125.6421
17:06:40	6254.672	126.7043
17:16:40	6253.464	126.9356
17:26:40	6252.406	127.1063
17:36:40	6251.383	127.2675
17:46:40	6250.418	127.4412
17:56:40	6249.441	127.5954
18:06:40	6248.628	127.7401
18:16:40	6247.682	127.8731
18:26:40	6246.782	128.0029
18:36:40	6245.966	128.1341

Time	Pressure (psig)	Temperature (degrees F)
Thu Apr 06, 1995		
08:53:40	6013.500	134.7957
09:03:40	6020.115	134.7283
09:13:40	6026.399	134.6653
09:23:40	6032.279	134.6094
09:33:40	6037.685	134.5572
09:43:40	6042.692	134.5087
09:53:40	6047.434	134.4669
10:03:40	6051.974	134.4251
10:13:40	6056.236	134.3873
10:23:40	6060.204	134.3493
10:33:40	6064.013	134.3190
10:43:40	6067.585	134.2900
10:53:40	6070.981	134.2621
11:03:40	6074.188	134.2392
11:13:40	6077.097	134.2157
11:23:40	6079.930	134.1938
11:33:40	6082.671	134.1741
11:43:40	6085.157	134.1547
11:53:40	6087.709	134.1374
12:03:40	6090.043	134.1207
12:13:40	6092.405	134.1074
12:23:40	6094.632	134.0944
12:33:40	6096.808	134.0821
12:43:40	6098.852	134.0748
12:53:40	6100.757	134.0590
13:03:40	6102.730	134.0496
13:13:40	6104.478	134.0394
13:23:40	6106.319	134.0298
13:33:40	6108.123	134.0210
13:43:40	6109.712	134.0114
13:49:10	6097.859	134.0138
13:52:30	6083.803	134.0208
13:55:20	6069.981	134.0502
14:03:40	6062.563	134.2197
14:13:40	6064.713	134.4325
14:22:20	6062.859	134.6082
14:25:50	6049.686	134.6642
14:32:00	6036.332	134.7337
14:36:50	6049.905	134.7826
14:43:30	6062.282	134.8699
14:53:40	6072.372	134.9271
15:03:40	6079.315	134.9232
15:13:40	6084.872	134.8860
15:23:40	6089.556	134.8365
15:33:40	6092.765	134.7829
15:41:40	6085.012	134.7767
15:51:40	6091.606	134.8304
15:58:20	6031.035	134.8534
16:00:00	5693.145	134.7127
16:01:40	5275.039	134.0465
16:03:20	4799.925	132.6684
16:05:00	4263.964	130.4156
16:06:40	3659.345	127.2495
16:08:20	2963.688	123.2295
16:10:00	2266.635	118.2165
16:11:40	1505.252	112.1409
16:13:20	665.827	105.1506
16:15:00	4.202	96.5956
16:25:40	1.335	62.1006
16:35:40	1.548	53.9564
16:45:40	1.618	49.4577
16:46:40	11.387	9.7212

SOLID RESOURCES LTD.

FIELD DATA

CUSTOMER: Hunt oil Company
WELL NAME: NFLD PROJECT #1

PAGE 01 | JOB # 63
DATE APRIL 5, 1995 | ZONE

FLOWING (TUBING) CASING | GAS TO: FLARE PIPELINE (VENT)
TEST INTERVAL M | GAS GRAVITY H.S. .80 L.S.

TIME	WELLHEAD DATA			SEPARATOR GAS DATA				FLUID DATA															
				HS MR. 102.49 mm Orf. HS M. 1723 Kpa X 99.6 Kpa				Fl Meter # OIL SIZE FACTOR TK # TK #				Fl. Meter # OIL Size FACTOR TK # TK #				Fl. Meter # H_2O SIZE FACTOR			Fl. Meter # SIZE FACTOR		
S.I. UNITS	TUBE PRESS Pga/kPa			LS MR. LS M. mm Orf. X				CAP m^3 m^3/mm	OIL DATA			CAP m^3 m^3/mm				WATER DATA			SHIPPING		Salinity PPM	BS&W $\%H_2O$
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d		mm	m^3	Hrly. Prod. m^3	Comm. Prod. m^3		mm	m^3	Hrly. Water Prod. m^3	Cumm. Water Prod. m^3		OIL SHP. m^3	WATER SHP. m^3	G.O.R.	TK. TEMP. DEG. C.
0915	Pressure test Coil Tubing unit.																					
2130		N2	Starting in to the hole to do Fluid Lift test.										2" bypass to separator									
	50.8																					
2200		METER IN SERVICE				19.05 mm orface plate										5.76	5.76				192334	PH-6
2230	1379			358	76.69	3	12.59									8.04	13.80					
2245	Change orface Plate to 31.75 mm																					
2300	1379			344	28.38	6	21.07									7.40	21.20					
2315	1310			310	45.56	8	25.55		Tank	Gauge	Not	Accurate.				11.31	32.51					
2330	1275			337	32.12	8	22.16									-.21	32.30					
2345	1241			330	20.91	9	17.71									2.51	34.81					
2400	1241			317	32.37	9	22.01									5.55	40.36					
	APRIL 06, 1995																					
0015	1241			317	32.37	10	21.64									5.70	46.06				192334	PH-6

CUMM. PROD. SINCE (Hrs.)			LIQUID PRODUCTION:	TANK #	TANK #
GAS PRODUCTION (Hrs.)		$10E3m^3$	BALANCE:	OIL H_2O	OIL
GAS PRODUCTION COMM.		$10E3m^3$	OPENING GAUGE:		
LIQUID PRODUCTION (Hrs.)			PRODUCTION		
OIL	m^3	Water m^3	TOTALS:		
LIQUID PRODUCTION CUMM.			MINUS SHIPPING:		
OIL	m^3	Water m^3	CLOSING GAUGE:		

SOLID RESOURCES LTD.

FIELD DATA

CUSTOMER: Hunt Oil Company
WELL NAME: NFLD PROJECT #1

PAGE 02 JOB # 63
DATE APRIL 06, 1995 ZONE

FLOWING: <TUBING> CASING
TEST INTERVAL M

GAS TO: FLARE PIPELINE <VENT>
GAS GRAVITY H.S. .80 L.S.

TIME	WELLHEAD DATA			SEPARATOR GAS DATA				FLUID DATA															
				HS MR. 102.49 HS M. 1723		mm Orf. 31.75 X 99.6		Fl Meter # SIZE TK #		OIL FACTOR TK #		Fl. Meter # Size TK #		OIL FACTOR TK #		Fl. Meter # SIZE		H_2O FACTOR		Fl. Meter # SIZE		FACTOR	
S.I. UNITS	TUBE PRESS Pga/kPa			LS MR. LS M.		mm Orf. X		CAP		m^3 m^3/mm	OIL DATA		CAP		m^3 m^3/mm	WATER DATA			SHIPPING		Salinity PPM	BS&W $\%H_2O$	
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d		mm	m^3	Hrly. Prod. m^3	Comm. Prod. m^3		mm	m^3	Hrly. Water Prod. m^3	Cumm. Water Prod. m^3		OIL SHP. m^3	WATER SHP. m^3	G.O.R.	TK. TEMP. DEG. C.	
	50.8												O/G	-	-	-	46.06					
0030	1206			317	33.36	12	21.89									1.77	47.83						
0045	1241			317	34.86	12	22.38									4.95	52.78						
0100	1103			137	22.88	12	15.13									2.39	55.17						
	Back Pressure regulator Froze off, Switch to Manual back pressure																						
0115	1172			227	34.86	12	19.84									3.76	58.93						
0130	1049			220	41.08	12	21.31									6.29	65.22						
0145	1172			275	39.84	12	22.71									4.25	69.47						
0200	1172			275	39.84	12	22.71									2.11	71.58						
0215	1206			275	41.83	14	23.19									3.32	74.90						
0230	1241			241	40.83	14	21.84									2.51	77.41						
0245	1172			262	41.58	15	22.65		Start Running into 1500 m							2.46	79.87				248,881	PH-6	

CUMM. PROD. SINCE (Hrs.)		LIQUID PRODUCTION: TANK #	TANK #
GAS PRODUCTION (Hrs.)	10E3m³	BALANCE: OIL H_2O	OIL
GAS PRODUCTION COMM.	10E3m³	OPENING GAUGE:	
LIQUID PRODUCTION (Hrs.)		PRODUCTION	
OIL m^3 Water m^3		TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m^3 Water m^3		CLOSING GAUGE:	

SOLID RESOURCES LTD.

FIELD DATA

CUSTOMER: Hunt oil Company
WELL NAME: NFLD Project #1

PAGE 03 JOB # 63
DATE APRIL 06, 1995 ZONE

FLOWING <TUBING> CASING
TEST INTERVAL M

GAS TO: FLARE PIPELINE <VENT>
GAS GRAVITY H.S. .80 L.S.

TIME	WELLHEAD DATA			SEPARATOR GAS DATA				FLUID DATA															
				HS MR. 102.49 HS M. 1723		mm Orl. 31.75 x 99.6		Fl Meter # SIZE TK #		OIL FACTOR TK #		Fl. Meter # Size TK #		OIL FACTOR TK #		Fl. Meter # SIZE		H_2O FACTOR		Fl. Meter # SIZE		FACTOR	
S.I. UNITS	TUBE PRESS Pga/kPa			LS MR. LS M.		mm Orl. X		CAP		m^3 m^3/mm	OIL DATA		CAP		m^3 m^3/mm	WATER DATA			SHIPPING		Salinity PPM	BS&W $\%H_2O$	
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d		mm	m^3	Hrly. Prod. m^3	Comm. Prod. m^3		mm	m^3	Hrly. Water Prod. m^3	Cumm. Water Prod. m^3		OIL SHP. m^3	WATER SHP. m^3	G.O.R.	TK. TEMP. DEG. C.	
	50.8												0%	—	-	—	79.87					
0300	1103			275	41.33	15	23.01									5.02	84.89					
0315	1034			172	31.37	15	17.08									0.89	85.78					
0330	1000			172	18.92	15	13.26									5.21	90.99					
0345	896			117	22.41	13	12.94									2.60	93.59					
0400	827			82	17.43	12	10.49									5.41	99.00					
	Increase back Pressure																					
0415	689			206	8.21	10	9.36									1.13	100.13					
0430	1241			413	39.84	15	26.40									5.91	106.04					
	N^2 and Fluid to Surface																					
0445	1172			330	18.92	15	16.67									2.00	108.04					
	Auto Matic Back Pressure in service.																					
0500	1241			337	21.91	15	18.08									3.75	111.79					
0515	1172			330	31.87	15	21.63									3.27	115.06				248,889	PH-6

Fluid weight 10.0

CUMM. PROD. SINCE (Hrs.)		LIQUID PRODUCTION: TANK #	TANK #
GAS PRODUCTION (Hrs.)	10E3m³	BALANCE: OIL H_2O	OIL
GAS PRODUCTION COMM.	10E3m³	OPENING GAUGE:	
LIQUID PRODUCTION (Hrs.)		PRODUCTION	
OIL m^3 Water	m^3	TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m^3 Water	m^3	CLOSING GAUGE:	

SOLID RESOURCES LTD.

FIELD DATA

CUSTOMER: Hunt oil Project
WELL NAME: NFLD PROJECT #1

PAGE 04 JOB # 63
DATE APRIL 06,1995 ZONE
FLOWING: <TUBING> CASING
TEST INTERVAL M
GAS TO: FLARE PIPELINE <VENT>
GAS GRAVITY H.S. .80 L.S.

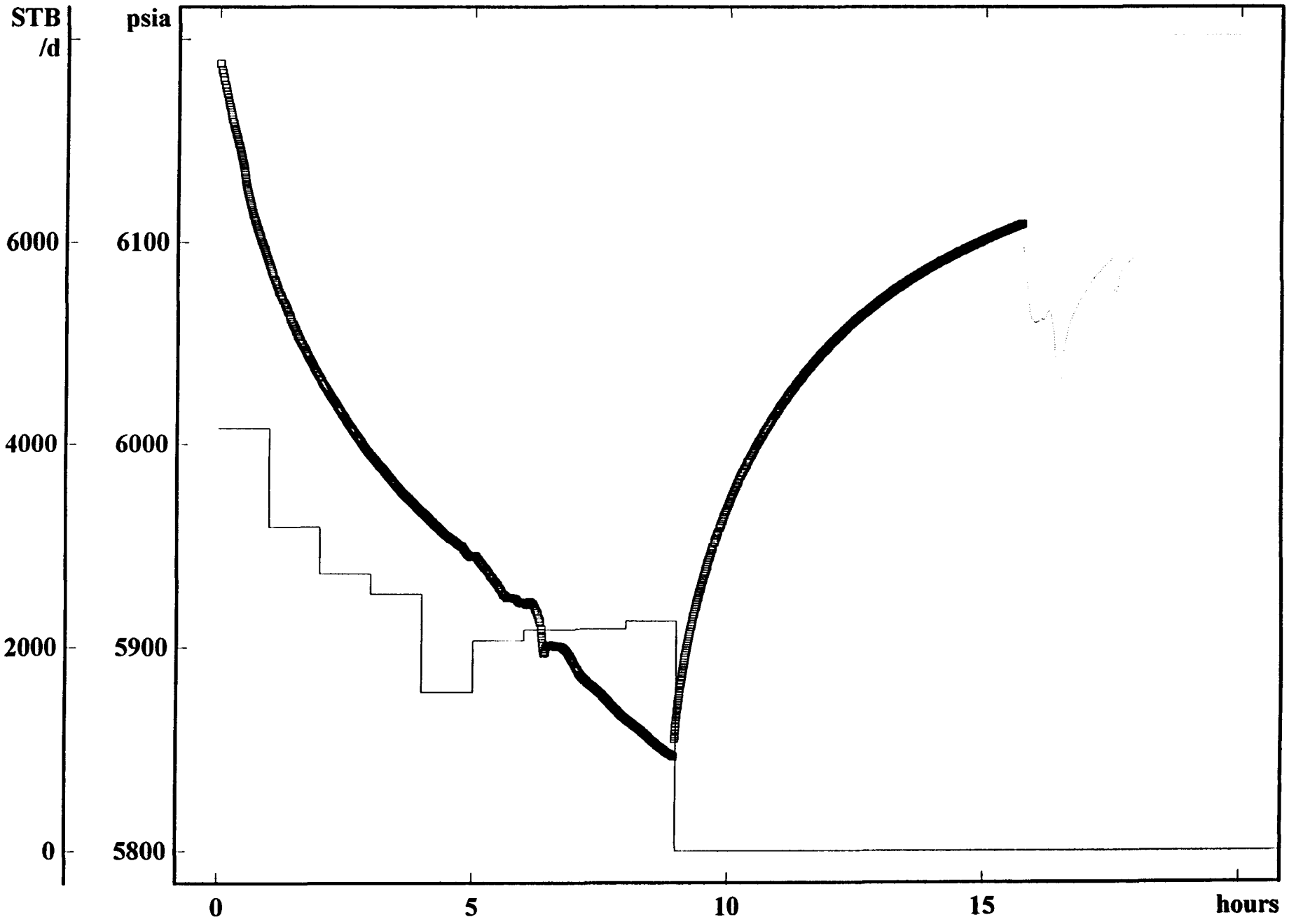
TIME	WELLHEAD DATA			SEPARATOR GAS DATA				FLUID DATA														
				HS MR. 102.49 mm Orf. 31.75				Fl Meter # OIL					Fl. Meter # OIL			Fl. Meter # H_2O			Fl. Meter #			
				HS M. 1723 X 99.6				SIZE FACTOR					Size FACTOR			SIZE FACTOR			SIZE FACTOR			
								TK # TK #					TK # TK #									
S.I. UNITS	TUBE PRESS Pga/kPa			LS MR. mm Orf. LS M. X				CAP m^3 m^3/mm			OIL DATA		CAP m^3 m^3/mm			WATER DATA			SHIPPING		Salinity PPM	BS&W $\%H_2O$
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d		mm	m^3	Hrly. Prod. m^3	Comm. Prod. m^3		mm	m^3	Hrly. Water Prod. m^3	Comm. Water Prod. m^3		OIL SHP. m^3	WATER SHP. m^3	G.O.R.	TK. TEMP. DEG. C.
	50.80												0/6	–	–	–	115.06					
0530	1172			330	29.88	15	20.95									2.35	117.41					
0545	1275			330	29.88	15	20.95									5.11	122.52					
0600	1206			330	28.13	16	20.29									6.95	129.47					
0615	1172			330	28.88	16	20.56									3.12	132.59					
0630	1172			330	28.13	16	20.29									1.64	134.23					
0645	1172			330	29.38	16	20.74									3.26	137.49					
0700	1172			330	28.38	16	20.38									5.39	142.86				248,888	PH-6
		Shut well in and Rig off Endless tubing							Blow down lines													

Gas Production is N^2

CUMM. PROD. SINCE (2130 Hrs.) APRIL 05, 1995		LIQUID PRODUCTION:	TANK # / TANK #
GAS PRODUCTION (9.5 Hrs.) 7.79 10E3m³		BALANCE: OIL H_2O	OIL
GAS PRODUCTION COMM. 10E3m³		OPENING GAUGE:	
LIQUID PRODUCTION (9.5 Hrs.)		PRODUCTION	
OIL m^3 Water 142.88 m^3		TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m^3 Water 142.88 m^3		CLOSING GAUGE:	

Port au Port Test #1 - Boat Harbour Zone

Pressure and flow rate vs time during test sequence



Port au Port Test #1 - Boat Harbour Zone

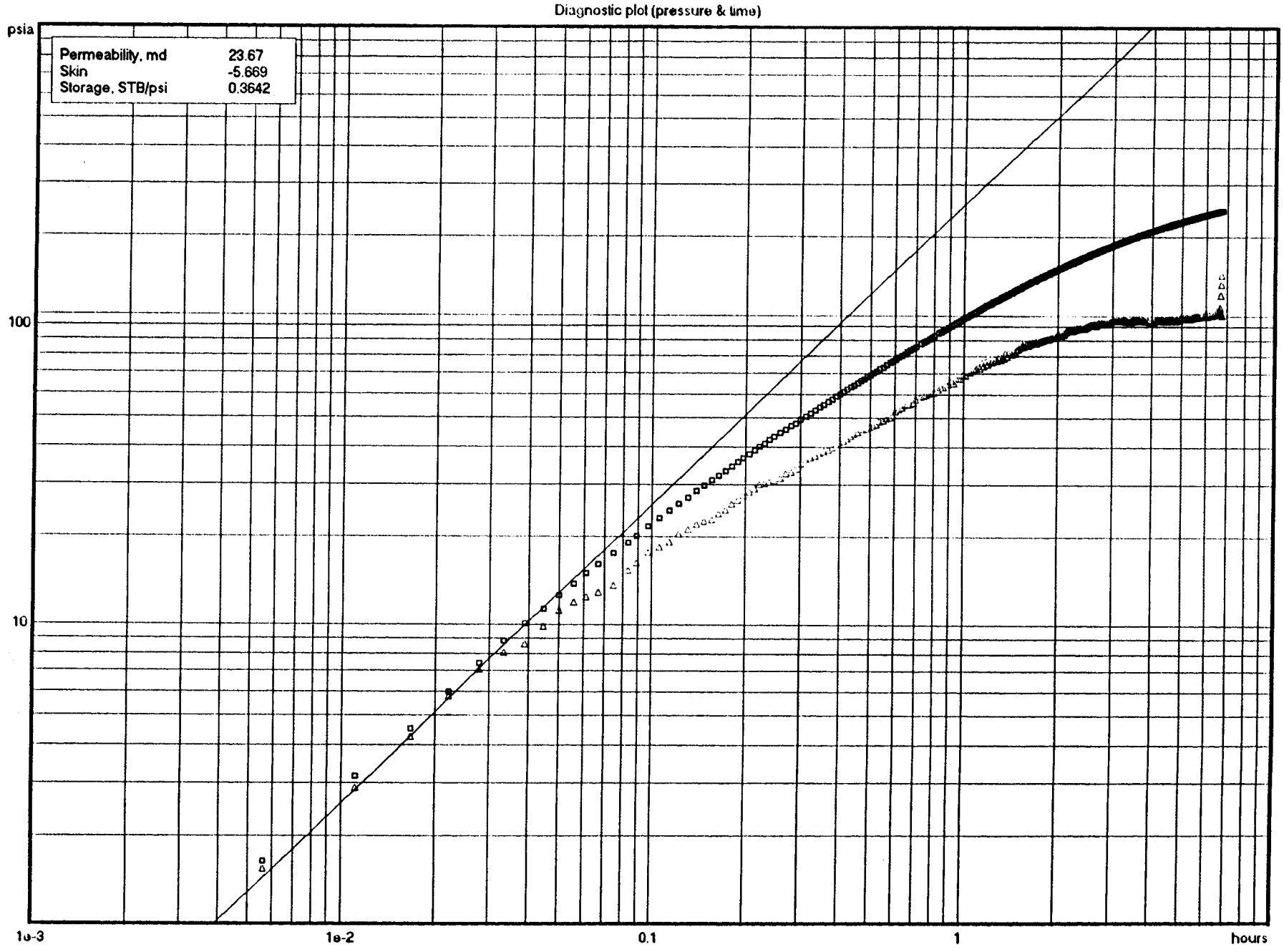
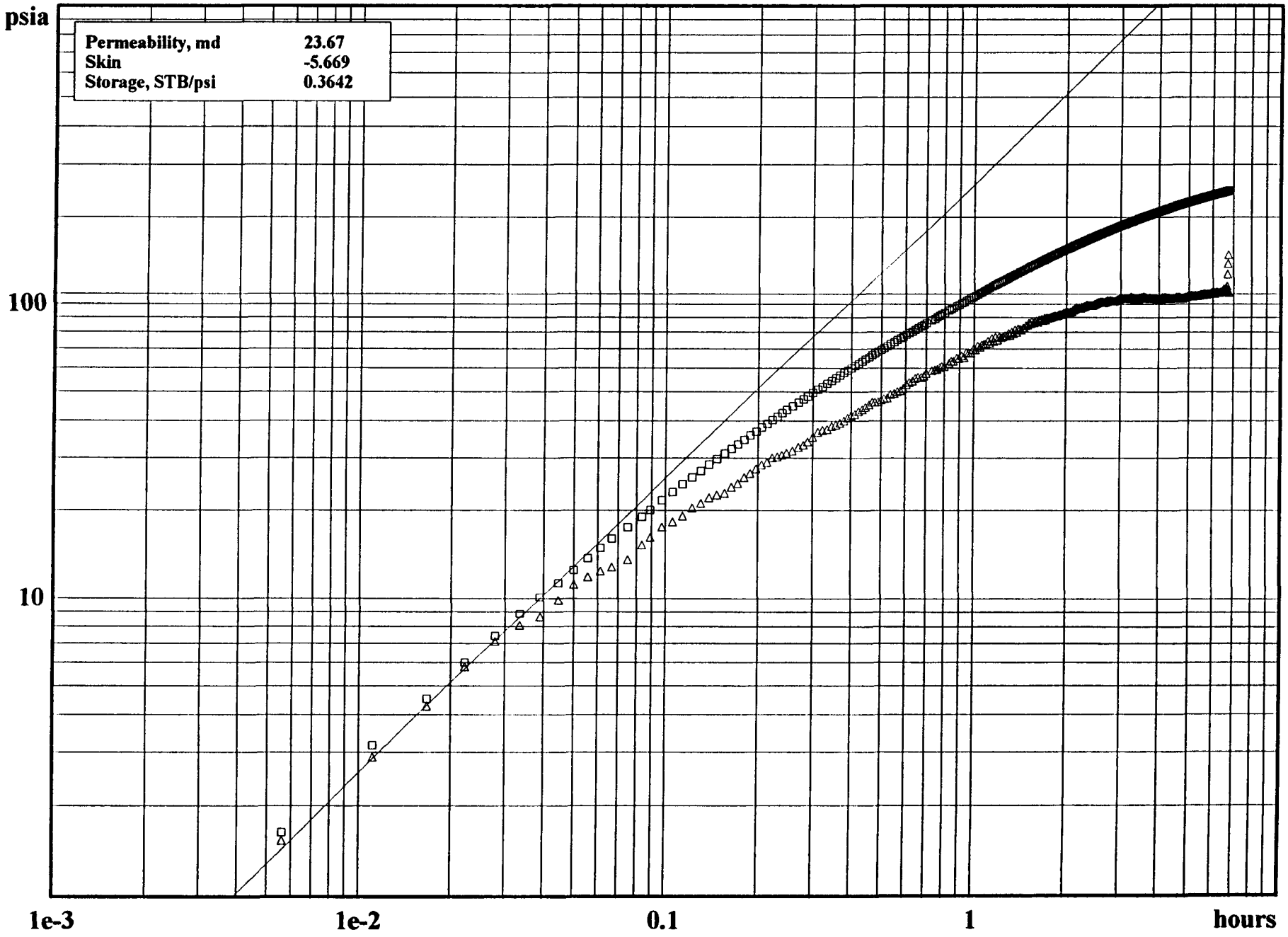


Figure 5

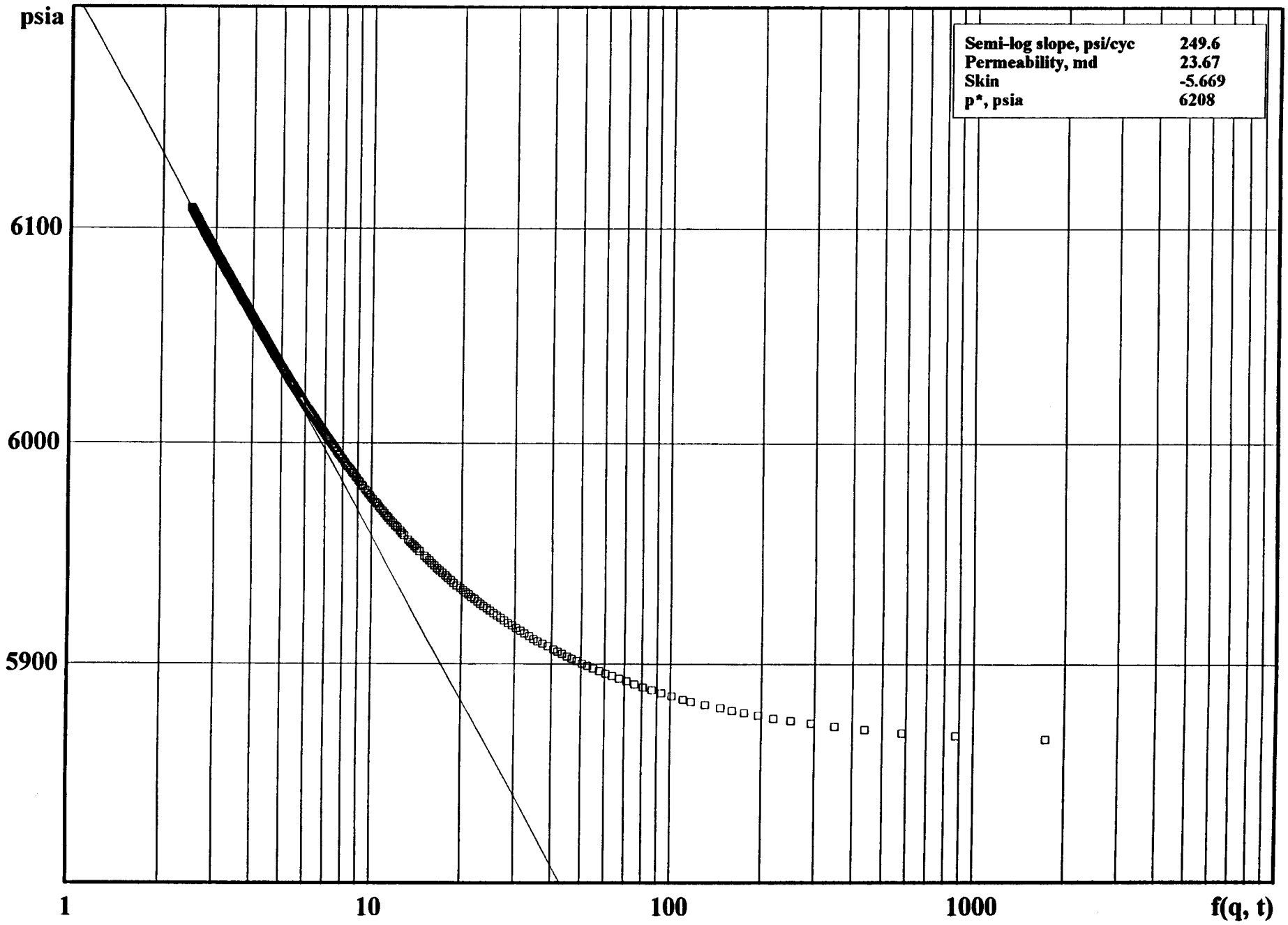
Port au Port Test #1 Boat Harbour Zone

Diagnostic plot (pressure & time)



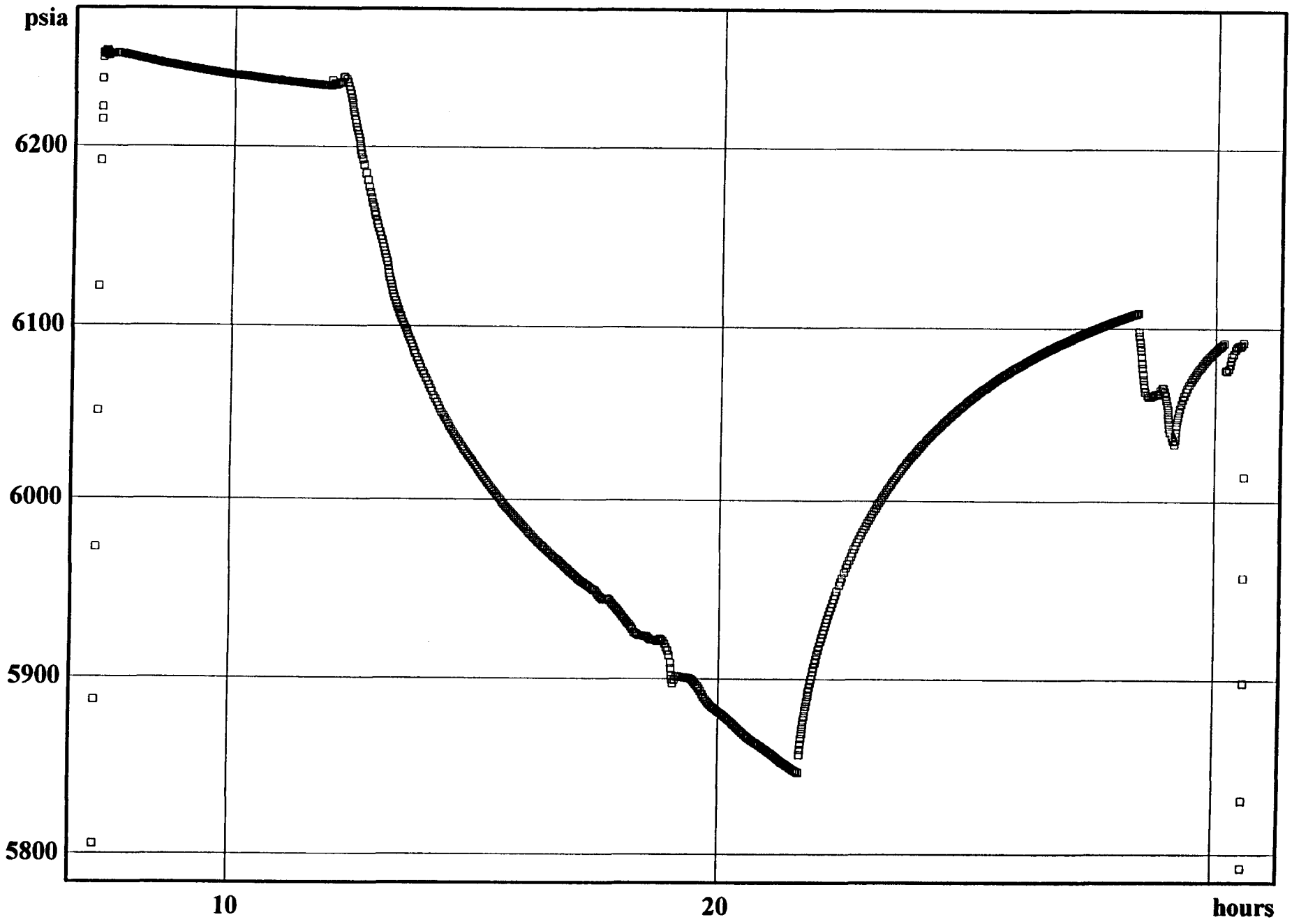
Port au Port Test #1 Boat Harbour Zone

Variable rate Horner plot (pressure & time)



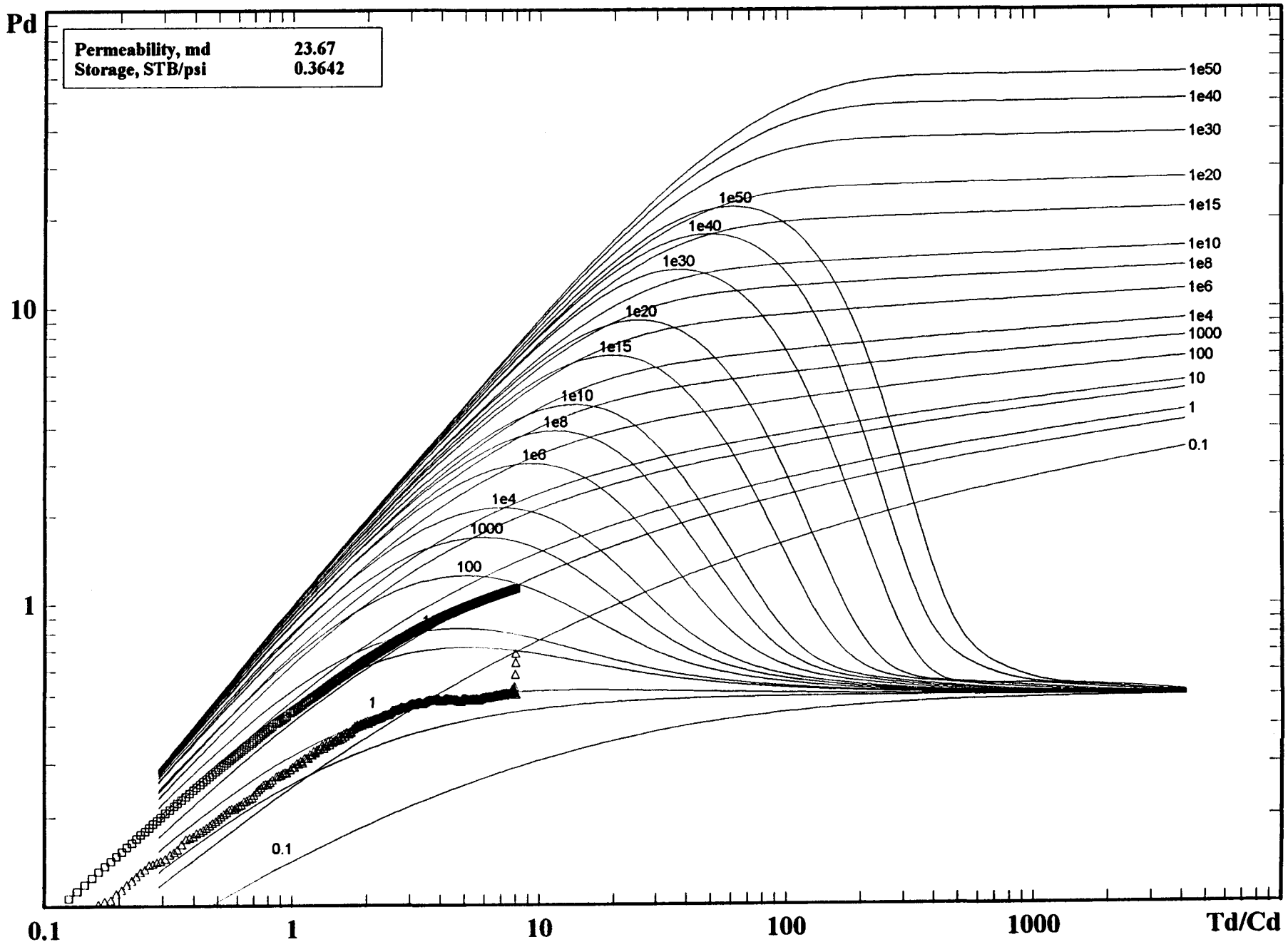
Port au Port #1 - Test #1

Raw Pressure Data



Port au Port Test #1 - Boat Harbour Zone

Storage and skin typecurve (pressure & time)



Flow Rate Data - hours, STB/d

0	4166
1	3172
2	2713
3	2519
4	1570
5	2071
6	2180
7	2186
8	2261
9	0

Pressure Data - hours, psia

0	6188.107	0.5055999	6130.572	0.9971999	6089.086
2.780009e-2	6185.014	0.5138999	6129.308	1.008399	6088.258
4.169999e-2	6183.339	0.5221999	6128.319	1.019499	6087.384
6.109999e-2	6181.19	0.5305999	6127.256	1.033399	6086.365
7.5e-2	6179.567	0.5388999	6126.365	1.044499	6085.468
9.449999e-2	6177.49	0.5471999	6125.463	1.055599	6084.621
0.1083999	6175.819	0.5555999	6124.544	1.069499	6083.64
0.1194999	6174.43	0.5638999	6123.653	1.094499	6082.294
0.1333999	6172.796	0.5721999	6122.75	1.105599	6081.505
0.1471999	6171.184	0.5805999	6121.846	1.119499	6080.519
0.1583999	6169.843	0.5888999	6120.932	1.133399	6079.53
0.1694999	6168.545	0.5971999	6120.061	1.147199	6078.593
0.1805999	6167.334	0.6055999	6119.202	1.161099	6077.556
0.1916999	6166.087	0.6138999	6118.311	1.174999	6076.51
0.2027999	6164.864	0.6221999	6117.464	1.188899	6075.663
0.2138999	6163.521	0.6333999	6116.422	1.211099	6074.632
0.2221999	6162.373	0.6444999	6115.389	1.224999	6073.853
0.2305999	6161.253	0.6555999	6114.456	1.238899	6072.994
0.2416999	6159.879	0.6638999	6113.593	1.252799	6072.16
0.2527999	6158.693	0.6749999	6112.524	1.277799	6070.865
0.2638999	6157.659	0.6860999	6111.603	1.291699	6069.986
0.2749999	6156.626	0.6971999	6110.8	1.311099	6068.936
0.2860999	6155.531	0.7083999	6110.076	1.324999	6068.011
0.2971999	6154.548	0.7194999	6109.235	1.338899	6067.029
0.3083999	6153.5	0.7305999	6108.389	1.352799	6066.2009
0.3194999	6152.395	0.7416999	6107.55	1.377799	6064.962
0.3305999	6151.357	0.7527999	6106.733	1.391699	6064.019
0.3416999	6150.279	0.7638999	6105.938	1.4	6063.023
0.3527999	6149.239	0.7749999	6105.085	1.427799	6061.477
0.3638999	6148.091	0.7860999	6104.115	1.441699	6060.546
0.3749999	6147.033	0.7971999	6103.245	1.461099	6059.585
0.3860999	6145.912	0.8083999	6102.291	1.474999	6058.73
0.3971999	6144.787	0.8194999	6101.436	1.494499	6057.642
0.4055999	6143.892	0.8305999	6100.678	1.508399	6056.72
0.4138999	6142.908	0.8444999	6099.809	1.527799	6055.639
0.4221999	6141.937	0.8555999	6099.016	1.544499	6054.693
0.4305999	6141.068	0.8694999	6098.158	1.561099	6053.813
0.4388999	6140.109	0.8833999	6097.314	1.577799	6052.946
0.4471999	6139.153	0.8944999	6096.504	1.594499	6051.99
0.4583999	6138.131	0.9055999	6095.616	1.611099	6051.049
0.4666999	6137.224	0.9166999	6094.795	1.627799	6050.231
0.4749999	6136.225	0.9305999	6093.859	1.644499	6049.376
0.4833999	6134.955	0.9444999	6092.859	1.661099	6048.667
0.4888999	6134.052	0.9583999	6092.001	1.677799	6047.925
0.4944999	6132.772	0.9721999	6090.973	1.694499	6047.112
0.5	6131.474	0.9860999	6089.942	1.711099	6046.303

Pressure Data - hours, psia (continued)

1.724999	6045.447	2.494499	6012.809	3.261099	5986.782
1.744499	6044.581	2.511099	6012.138	3.277799	5986.243
1.761099	6043.649	2.527799	6011.501	3.294499	5985.722
1.777799	6042.868	2.544499	6010.853	3.311099	5985.203
1.794499	6042.21	2.561099	6010.214	3.327799	5984.717
1.811099	6041.415	2.577799	6009.605	3.344499	5984.137
1.827799	6040.615	2.594499	6008.9	3.361099	5983.638
1.844499	6039.794	2.611099	6008.251	3.377799	5983.084
1.861099	6039.018	2.627799	6007.691	3.394499	5982.556
1.877799	6038.272	2.644499	6007.092	3.411099	5981.953
1.894499	6037.441	2.661099	6006.545	3.427799	5981.522
1.911099	6036.733	2.677799	6005.897	3.444499	5981.013
1.927799	6036.031	2.694499	6005.278	3.461099	5980.549
1.944499	6035.296	2.711099	6004.679	3.477799	5980.086
1.961099	6034.572	2.727799	6004.058	3.494499	5979.529
1.977799	6033.901	2.744499	6003.459	3.511099	5978.952
1.994499	6033.061	2.761099	6002.905	3.527799	5978.459
2.011099	6032.273	2.777799	6002.325	3.544499	5977.992
2.027799	6031.593	2.794499	6001.76	3.561099	5977.533
2.044499	6030.891	2.811099	6001.144	3.577799	5977.043
2.061099	6030.178	2.827799	6000.526	3.594499	5976.637
2.077799	6029.48	2.844499	5999.83	3.611099	5976.183
2.094499	6028.8	2.861099	5999.163	3.627799	5975.71
2.111099	6028.043	2.877799	5998.541	3.644499	5975.276
2.127799	6027.322	2.894499	5997.908	3.661099	5974.809
2.144499	6026.636	2.911099	5997.309	3.677799	5974.313
2.161099	6026.0009	2.927799	5996.761	3.694499	5973.968
2.177799	6025.391	2.944499	5996.204	3.711099	5973.468
2.194499	6024.723	2.961099	5995.686	3.727799	5973.059
2.211099	6024.109	2.977799	5995.253	3.744499	5972.7009
2.227799	6023.481	2.994499	5994.739	3.761099	5972.264
2.244499	6022.742	3.011099	5994.24	3.777799	5971.813
2.261099	6022.132	3.027799	5993.773	3.794499	5971.355
2.277799	6021.48	3.044499	5993.247	3.811099	5970.941
2.294499	6020.789	3.061099	5992.719	3.827799	5970.444
2.311099	6020.077	3.077799	5992.231	3.844499	5970.07
2.327799	6019.448	3.094499	5991.766	3.861099	5969.595
2.344499	6018.778	3.111099	5991.244	3.877799	5969.225
2.361099	6018.148	3.127799	5990.727	3.894499	5968.763
2.377799	6017.409	3.144499	5990.181	3.911099	5968.242
2.394499	6016.736	3.161099	5989.692	3.927799	5967.914
2.411099	6016.005	3.177799	5989.252	3.944499	5967.456
2.427799	6015.337	3.194499	5988.778	3.961099	5967.069
2.444499	6014.731	3.211099	5988.301	3.977799	5966.618
2.461099	6014.083	3.227799	5987.827	3.994499	5966.204
2.477799	6013.413	3.244499	5987.3009	4.011099	5965.847

Pressure Data - hours, psia (continued)

4.027799	5965.5009	4.794499	5948.505	5.561099	5927.021
4.044499	5965.079	4.811099	5947.79	5.577799	5926.077
4.061099	5964.689	4.827799	5947.213	5.594499	5925.734
4.077799	5964.245	4.844499	5946.702	5.611099	5925.488
4.094499	5963.817	4.861099	5946.204	5.627799	5925.369
4.111099	5963.395	4.877799	5945.751	5.644499	5925.035
4.127799	5962.908	4.894499	5945.317	5.661099	5924.261
4.144499	5962.488	4.911099	5944.921	5.677799	5924.18
4.161099	5962.0009	4.927799	5944.431	5.694499	5924.325
4.177799	5961.538	4.944499	5944.172	5.711099	5924.38
4.194499	5961.161	4.961099	5944.042	5.727799	5924.384
4.211099	5960.76	4.977799	5944.003	5.744499	5924.341
4.227799	5960.303	4.994499	5944.116	5.761099	5924.245
4.244499	5959.897	5.011099	5944.28	5.777799	5924.14
4.261099	5959.538	5.027799	5944.485	5.794499	5924.095
4.277799	5959.121	5.044499	5944.581	5.811099	5923.966
4.294499	5958.712	5.061099	5944.302	5.827799	5923.814
4.311099	5958.388	5.077799	5943.535	5.844499	5923.704
4.327799	5957.944	5.094499	5942.939	5.861099	5923.214
4.344499	5957.522	5.111099	5942.318	5.877799	5922.677
4.361099	5957.112	5.127799	5941.706	5.894499	5922.28
4.377799	5956.667	5.144499	5941.252	5.911099	5922.119
4.394499	5956.285	5.161099	5940.808	5.927799	5922.339
4.411099	5955.828	5.177799	5940.359	5.944499	5922.007
4.427799	5955.464	5.194499	5939.889	5.961099	5921.625
4.444499	5955.049	5.211099	5939.364	5.977799	5921.66
4.461099	5954.694	5.227799	5938.85	5.994499	5921.712
4.477799	5954.317	5.244499	5938.225	6.011099	5921.686
4.494499	5954.041	5.261099	5937.7009	6.027799	5921.553
4.511099	5953.714	5.277799	5937.173	6.044499	5921.171
4.527799	5953.419	5.294499	5936.585	6.061099	5920.936
4.544499	5953.118	5.311099	5935.978	6.077799	5921.567
4.561099	5952.906	5.327799	5935.368	6.094499	5922.307
4.577799	5952.579	5.344499	5934.743	6.111099	5922.51
4.594499	5952.263	5.361099	5934.147	6.127799	5922.317
4.611099	5951.98	5.377799	5933.665	6.144499	5921.991
4.627799	5951.648	5.394499	5933.044	6.161099	5921.644
4.644499	5951.342	5.411099	5932.454	6.177799	5921.286
4.661099	5951.038	5.427799	5931.991	6.194499	5920.7009
4.677799	5950.69	5.444499	5931.465	6.211099	5919.686
4.694499	5950.401	5.461099	5930.956	6.224999	5918.672
4.711099	5949.969	5.477799	5930.438	6.244499	5917.712
4.727799	5949.602	5.494499	5929.7	6.261099	5916.974
4.744499	5949.444	5.511099	5929.151	6.277799	5915.988
4.761099	5949.101	5.527799	5928.693	6.294499	5914.527
4.777799	5949.2009	5.544499	5927.901	6.305599	5913.435

Pressure Data - hours, psia (continued)

6.319499	5912.389	7.011099	5890.834	7.777799	5870.81
6.344499	5909.18	7.027799	5890.052	7.794499	5870.426
6.347199	5907.494	7.044499	5889.353	7.811099	5870.044
6.349999	5906.019	7.061099	5888.725	7.827799	5869.648
6.352799	5904.982	7.077799	5888.096	7.844499	5869.213
6.358399	5902.225	7.094499	5887.5	7.861099	5868.776
6.366699	5900.869	7.111099	5886.919	7.877799	5868.405
6.369499	5899.855	7.127799	5886.425	7.894499	5868.061
6.377799	5898.621	7.144499	5885.956	7.911099	5867.586
6.388899	5897.613	7.161099	5885.438	7.927799	5867.153
6.411099	5898.057	7.177799	5885.018	7.944499	5866.832
6.427799	5899.72	7.194499	5884.57	7.961099	5866.463
6.444499	5900.704	7.211099	5884.253	7.977799	5866.105
6.461099	5901.411	7.227799	5883.868	7.994499	5865.761
6.477799	5901.596	7.244499	5883.456	8.011099	5865.438
6.494499	5901.693	7.261099	5883.127	8.027799	5865.089
6.511099	5901.629	7.277799	5882.77	8.044499	5864.789
6.527799	5901.512	7.294499	5882.432	8.061099	5864.525
6.544499	5901.435	7.311099	5882.149	8.077799	5864.166
6.561099	5901.282	7.327799	5881.783	8.094499	5863.928
6.577799	5901.29	7.344499	5881.379	8.111099	5863.587
6.594499	5901.139	7.361099	5881.108	8.127799	5863.291
6.611099	5900.992	7.377799	5880.764	8.144499	5862.933
6.627799	5900.86	7.394499	5880.488	8.161099	5862.605
6.644499	5900.917	7.411099	5880.089	8.177799	5862.274
6.661099	5900.966	7.427799	5879.676	8.194499	5861.989
6.677799	5900.856	7.444499	5879.321	8.211099	5861.658
6.694499	5900.788	7.461099	5878.935	8.227799	5861.348
6.711099	5900.72	7.477799	5878.587	8.244499	5861.063
6.727799	5900.595	7.494499	5878.21	8.261099	5860.666
6.744499	5900.482	7.511099	5877.878	8.277799	5860.376
6.761099	5900.168	7.527799	5877.428	8.294499	5860.003
6.777799	5899.849	7.544499	5877.07	8.311099	5859.683
6.794499	5899.443	7.561099	5876.642	8.327799	5859.269
6.811099	5898.979	7.577799	5876.2	8.344499	5858.956
6.827799	5898.425	7.594499	5875.75	8.361099	5858.663
6.844499	5897.855	7.611099	5875.354	8.377799	5858.348
6.861099	5897.243	7.627799	5874.875	8.394499	5857.997
6.877799	5896.614	7.644499	5874.465	8.411099	5857.582
6.894499	5896.019	7.661099	5873.98	8.427799	5857.252
6.911099	5895.465	7.677799	5873.544	8.444499	5856.896
6.927799	5894.837	7.694499	5873.096	8.461099	5856.487
6.944499	5894.147	7.711099	5872.595	8.477799	5856.084
6.961099	5893.343	7.727799	5872.144	8.494499	5855.754
6.977799	5892.606	7.744499	5871.713	8.511099	5855.381
6.994499	5891.613	7.761099	5871.223	8.527799	5854.956

Pressure Data - hours, psia (continued)

8.544499	5854.548	9.088899	5883.346	9.549999	5936.995
8.561099	5854.126	9.097199	5884.895	9.563899	5938.18
8.577799	5853.843	9.105599	5886.325	9.577799	5939.326
8.594499	5853.463	9.113899	5887.716	9.588899	5940.309
8.611099	5853.066	9.122199	5889.06	9.602799	5941.462
8.627799	5852.764	9.130599	5890.434	9.616699	5942.594
8.644499	5852.405	9.138899	5891.807	9.630599	5943.626
8.661099	5852.159	9.147199	5893.038	9.644499	5944.789
8.677799	5851.865	9.155599	5894.281	9.658399	5945.915
8.694499	5851.617	9.163899	5895.455	9.672199	5947.007
8.711099	5851.266	9.172199	5896.615	9.686099	5948.037
8.727799	5850.957	9.180599	5897.8009	9.7	5949.11
8.744499	5850.589	9.188899	5898.992	9.727799	5951.257
8.761099	5850.349	9.197199	5900.122	9.744499	5952.365
8.777799	5850.013	9.205599	5901.272	9.758399	5953.395
8.794499	5849.671	9.213899	5902.344	9.772199	5954.381
8.811099	5849.32	9.222199	5903.446	9.786099	5955.37
8.827799	5849.066	9.230599	5904.56	9.8	5956.324
8.844499	5848.754	9.238899	5905.612	9.827799	5958.438
8.861099	5848.525	9.247199	5906.711	9.844499	5959.451
8.877799	5848.265	9.258399	5908.006	9.858399	5960.438
8.894499	5847.962	9.269499	5909.235	9.877799	5961.76
8.911099	5847.716	9.280599	5910.424	9.894499	5962.69
8.927799	5847.386	9.288899	5911.461	9.911099	5963.852
8.944499	5847.112	9.3	5912.787	9.927799	5964.835
8.961099	5846.895	9.311099	5914.011	9.944499	5966.087
8.977799	5855.849	9.322199	5915.268	9.961099	5967.0009
8.980599	5856.953	9.333399	5916.477	9.977799	5968.255
8.983399	5858.07	9.344499	5917.669	9.994499	5969.128
8.988899	5859.978	9.355599	5918.817	10.01109	5970.302
8.994499	5861.661	9.366699	5920.015	10.02779	5971.186
9	5863.253	9.377799	5921.15	10.04449	5972.432
9.005599	5864.895	9.388899	5922.278	10.06109	5973.215
9.011099	5866.415	9.4	5923.322	10.07779	5974.384
9.016699	5867.78	9.411099	5924.425	10.09449	5975.201
9.022199	5869.251	9.422199	5925.488	10.11109	5976.3009
9.027799	5870.682	9.433399	5926.602	10.12779	5977.101
9.033399	5872.109	9.444499	5927.653	10.14449	5978.311
9.038899	5873.363	9.455599	5928.708	10.16109	5979.133
9.044499	5874.56	9.466699	5929.772	10.17779	5980.279
9.049999	5875.817	9.477799	5930.754	10.19449	5981.018
9.055599	5877.031	9.488899	5931.822	10.21109	5982.125
9.061099	5878.191	9.5	5932.764	10.22779	5982.833
9.066699	5879.306	9.511099	5933.781	10.24449	5983.973
9.074999	5880.812	9.522199	5934.796	10.26109	5984.673
9.083399	5882.31	9.536099	5935.89	10.27779	5985.829

Pressure Data - hours, psia (continued)

10.29449	5986.549	11.06109	6020.837	11.82779	6045.842
10.31109	5987.552	11.07779	6021.436	11.84449	6046.342
10.32779	5988.221	11.09449	6022.093	11.86109	6046.785
10.34449	5989.142	11.11109	6022.752	11.87779	6047.201
10.36109	5989.835	11.12779	6023.37	11.89449	6047.721
10.37779	5990.854	11.14449	6023.956	11.91109	6048.112
10.39449	5991.519	11.16109	6024.562	11.92779	6048.519
10.41109	5992.556	11.17779	6025.243	11.94449	6049.014
10.42779	5993.279	11.19449	6025.783	11.96109	6049.516
10.44449	5994.292	11.21109	6026.365	11.97779	6049.955
10.46109	5994.913	11.22779	6026.933	11.99449	6050.4009
10.47779	5995.879	11.24449	6027.48	12.01109	6050.867
10.49449	5996.59	11.26109	6028.034	12.02779	6051.291
10.51109	5997.583	11.27779	6028.6009	12.04449	6051.739
10.52779	5998.22	11.29449	6029.214	12.06109	6052.194
10.54449	5999.183	11.31109	6029.757	12.07779	6052.609
10.56109	5999.757	11.32779	6030.331	12.09449	6053.03
10.57779	6000.652	11.34449	6030.919	12.11109	6053.392
10.59449	6001.45	11.36109	6031.492	12.12779	6053.748
10.61109	6002.172	11.37779	6032.101	12.14449	6054.193
10.62779	6002.948	11.39449	6032.619	12.16109	6054.559
10.64449	6003.72	11.41109	6033.152	12.17779	6055
10.66109	6004.509	11.42779	6033.743	12.19449	6055.423
10.67779	6005.257	11.44449	6034.204	12.21109	6055.825
10.69449	6006.001	11.46109	6034.816	12.22779	6056.271
10.71109	6006.686	11.47779	6035.403	12.24449	6056.67
10.72779	6007.466	11.49449	6035.886	12.26109	6057.046
10.74449	6008.206	11.51109	6036.481	12.27779	6057.519
10.76109	6008.88	11.52779	6036.984	12.29449	6057.918
10.77779	6009.613	11.54449	6037.506	12.31109	6058.296
10.79449	6010.289	11.56109	6038.079	12.32779	6058.688
10.81109	6010.988	11.57779	6038.568	12.34449	6059.049
10.82779	6011.682	11.59449	6039.038	12.36109	6059.503
10.84449	6012.397	11.61109	6039.522	12.37779	6059.928
10.86109	6013.073	11.62779	6039.976	12.39449	6060.251
10.87779	6013.768	11.64449	6040.454	12.41109	6060.646
10.89449	6014.342	11.66109	6040.948	12.42779	6061.029
10.91109	6014.976	11.67779	6041.47	12.44449	6061.372
10.92779	6015.536	11.69449	6041.907	12.46109	6061.781
10.94449	6016.295	11.71109	6042.456	12.47779	6062.19
10.96109	6016.988	11.72779	6042.957	12.49449	6062.523
10.97779	6017.661	11.74449	6043.453	12.51109	6062.888
10.99449	6018.309	11.76109	6043.923	12.52779	6063.285
11.01109	6018.959	11.77779	6044.409	12.54449	6063.647
11.02779	6019.607	11.79449	6044.924	12.56109	6064.002
11.04449	6020.251	11.81109	6045.376	12.57779	6064.408

Pressure Data - hours, psia (continued)

12.59449	6064.74	13.36109	6078.948	14.12779	6090.579
12.61109	6065.074	13.37779	6079.237	14.14449	6090.754
12.62779	6065.416	13.39449	6079.466	14.16109	6090.972
12.64449	6065.773	13.41109	6079.766	14.17779	6091.207
12.66109	6066.035	13.42779	6080.043	14.19449	6091.359
12.67779	6066.282	13.44449	6080.255	14.21109	6091.603
12.69449	6066.582	13.46109	6080.543	14.22779	6091.803
12.71109	6066.932	13.47779	6080.793	14.24449	6092.023
12.72779	6067.265	13.49449	6081.066	14.26109	6092.219
12.74449	6067.595	13.51109	6081.359	14.27779	6092.438
12.76109	6067.977	13.52779	6081.656	14.29449	6092.627
12.77779	6068.294	13.54449	6081.869	14.31109	6092.837
12.79449	6068.64	13.56109	6082.124	14.32779	6093.082
12.81109	6068.99	13.57779	6082.439	14.34449	6093.245
12.82779	6069.341	13.59449	6082.632	14.36109	6093.448
12.84449	6069.635	13.61109	6082.925	14.37779	6093.723
12.86109	6069.988	13.62779	6083.208	14.39449	6093.903
12.87779	6070.326	13.64449	6083.491	14.41109	6094.094
12.89449	6070.688	13.66109	6083.778	14.42779	6094.387
12.91109	6070.988	13.67779	6083.952	14.44449	6094.569
12.92779	6071.348	13.69449	6084.22	14.46109	6094.786
12.94449	6071.653	13.71109	6084.461	14.47779	6095.071
12.96109	6071.941	13.72779	6084.71	14.49449	6095.188
12.97779	6072.262	13.74449	6084.948	14.51109	6095.416
12.99449	6072.582	13.76109	6085.265	14.52779	6095.62
13.01109	6072.829	13.77779	6085.46	14.54449	6095.855
13.02779	6073.168	13.79449	6085.74	14.56109	6096.029
13.04449	6073.469	13.81109	6085.981	14.57779	6096.235
13.06109	6073.749	13.82779	6086.216	14.59449	6096.479
13.07779	6074.092	13.84449	6086.468	14.61109	6096.662
13.09449	6074.423	13.86109	6086.708	14.62779	6096.879
13.11109	6074.659	13.87779	6086.954	14.64449	6097.134
13.12779	6074.987	13.89449	6087.175	14.66109	6097.285
13.14449	6075.321	13.91109	6087.447	14.67779	6097.513
13.16109	6075.625	13.92779	6087.65	14.69449	6097.677
13.17779	6075.888	13.94449	6087.942	14.71109	6097.87
13.19449	6076.182	13.96109	6088.128	14.72779	6098.053
13.21109	6076.482	13.97779	6088.412	14.74449	6098.282
13.22779	6076.757	13.99449	6088.609	14.76109	6098.488
13.24449	6077.105	14.01109	6088.857	14.77779	6098.688
13.26109	6077.38	14.02779	6089.154	14.79449	6098.907
13.27779	6077.657	14.04449	6089.339	14.81109	6099.069
13.29449	6077.937	14.06109	6089.545	14.82779	6099.243
13.31109	6078.221	14.07779	6089.803	14.84449	6099.438
13.32779	6078.441	14.09449	6090.028	14.86109	6099.632
13.34449	6078.7009	14.11109	6090.267	14.87779	6099.839

Pressure Data - hours, psia (continued)

14.89449	6100	15.66109	6108.263	16.16109	6062.91
14.91109	6100.231	15.67779	6108.44	16.17779	6063.435
14.92779	6100.431	15.69449	6108.526	16.19449	6064.276
14.94449	6100.627	15.71109	6108.682	16.21109	6065.227
14.96109	6100.829	15.72779	6108.875	16.22779	6066.121
14.97779	6101.001	15.74449	6109.096	16.24449	6066.687
14.99449	6101.201	15.76109	6099.467	16.26109	6066.895
15.01109	6101.375	15.76389	6098.446	16.27779	6066.476
15.02779	6101.597	15.76949	6097.2	16.29449	6065.423
15.04449	6101.851	15.77779	6095.768	16.30279	6064.468
15.06109	6101.95	15.78339	6094.257	16.31389	6063.213
15.07779	6102.169	15.78889	6092.634	16.32219	6062.118
15.09449	6102.33	15.79449	6091.266	16.33059	6060.826
15.11109	6102.549	15.8	6090.009	16.33889	6059.48
15.12779	6102.727	15.80559	6088.869	16.34719	6058.073
15.14449	6102.923	15.81109	6087.721	16.35559	6056.734
15.16109	6103.107	15.81669	6086.01	16.36389	6055.51
15.17779	6103.317	15.82219	6084.275	16.37219	6054.164
15.19449	6103.494	15.82779	6082.636	16.37499	6052.789
15.21109	6103.663	15.83339	6080.742	16.37779	6051.465
15.22779	6103.847	15.83889	6078.973	16.38059	6050.18
15.24449	6104.069	15.84169	6077.933	16.38339	6048.941
15.26109	6104.208	15.84719	6076.084	16.38609	6047.803
15.27779	6104.375	15.85279	6074.416	16.39169	6045.872
15.29449	6104.549	15.85839	6072.826	16.39719	6044.284
15.31109	6104.736	15.86389	6071.289	16.40279	6043.085
15.32779	6104.877	15.86949	6069.931	16.41109	6041.837
15.34449	6105.084	15.87499	6068.723	16.42219	6040.764
15.36109	6105.223	15.88059	6067.782	16.43609	6039.773
15.37779	6105.389	15.88609	6066.713	16.46109	6037.92
15.39449	6105.519	15.89449	6065.454	16.46949	6036.936
15.41109	6105.722	15.90559	6064.286	16.48059	6035.785
15.42779	6105.89	15.91949	6063.269	16.49169	6034.656
15.44449	6106.004	15.94449	6062.43	16.51109	6033.648
15.46109	6106.22	15.96109	6061.906	16.52499	6034.949
15.47779	6106.337	15.97779	6061.403	16.52779	6036.25
15.49449	6106.501	15.99449	6061.139	16.53059	6037.553
15.51109	6106.717	16.01109	6061.312	16.53339	6038.835
15.52779	6106.907	16.02779	6061.539	16.53609	6040.02
15.54449	6107.045	16.04449	6061.793	16.53889	6041.092
15.56109	6107.274	16.06109	6061.989	16.54449	6042.934
15.57779	6107.383	16.07779	6062.283	16.54999	6044.501
15.59449	6107.555	16.09449	6062.673	16.55559	6045.893
15.61109	6107.753	16.11109	6063.191	16.56109	6047.241
15.62779	6107.927	16.12779	6062.979	16.56669	6048.352
15.64449	6108.057	16.14449	6062.752	16.57499	6049.765

Pressure Data - hours, psia (continued)

16.58339	6051.146	17.31109	6087.404
16.59169	6052.392	17.32779	6087.848
16.6	6053.487	17.34449	6088.274
16.61109	6054.846	17.36109	6088.689
16.62219	6056.074	17.37779	6089.168
16.63609	6057.359	17.39449	6089.613
16.64999	6058.623	17.41109	6090.004
16.66389	6059.764	17.42779	6090.4009
16.67779	6060.908	17.44449	6090.856
16.69449	6062.2	17.46109	6091.153
16.71109	6063.358	17.47779	6091.603
16.72779	6064.418	17.49449	6092.018
16.74449	6065.552	17.51109	6092.37
16.76109	6066.542	17.52779	6076.874
16.77779	6067.641	17.54449	6077.013
16.79449	6068.437	17.56109	6076.456
16.81109	6069.425	17.57779	6076.369
16.82779	6070.133	17.59449	6077.534
16.84449	6070.946	17.60839	6078.723
16.86109	6071.686	17.61949	6079.988
16.87779	6072.465	17.63059	6081.301
16.89449	6073.161	17.63889	6082.352
16.91109	6073.915	17.64719	6083.457
16.92779	6074.6009	17.66109	6084.744
16.94449	6075.302	17.67779	6085.837
16.96109	6075.975	17.69449	6086.09
16.97779	6076.665	17.71109	6088.042
16.99449	6077.315	17.72779	6088.405
17.01109	6077.889	17.74449	6089.317
17.02779	6078.484	17.76109	6089.8009
17.04449	6079.131	17.77779	6089.949
17.06109	6079.749	17.79449	6090.614
17.07779	6080.356	17.81109	6090.09
17.09449	6080.909	17.82779	6090.18
17.11109	6081.457	17.84449	6090.705
17.12779	6082.08	17.86109	6091.146
17.14449	6082.584	17.87779	6091.62
17.16109	6083.066	17.89449	6092.215
17.17779	6083.579		
17.19449	6084.107		
17.21109	6084.483		
17.22779	6084.969		
17.24449	6085.476		
17.26109	6085.982		
17.27779	6086.464		
17.29449	6086.911		

FINAL WELL REPORT

NHOC/PanCanadian Port au Port No. 1

APPENDIX V

PRODUCTION TEST DATA

V - 7 DST #2, Field Data ..... NHOC

NEWFOUNDLAND HUNT OIL COMPANY INC.

JULY 1996

TEST #2

PERF: 11668.0-11678.0; 11657.0-11664.0; 11593.0-11598.0
11568.0-11570.0 11532.0-11539.0

PACKER @ 11006.0

ACID-. 35 BBLS 28%

JET @ N_2 @ 815 SCF

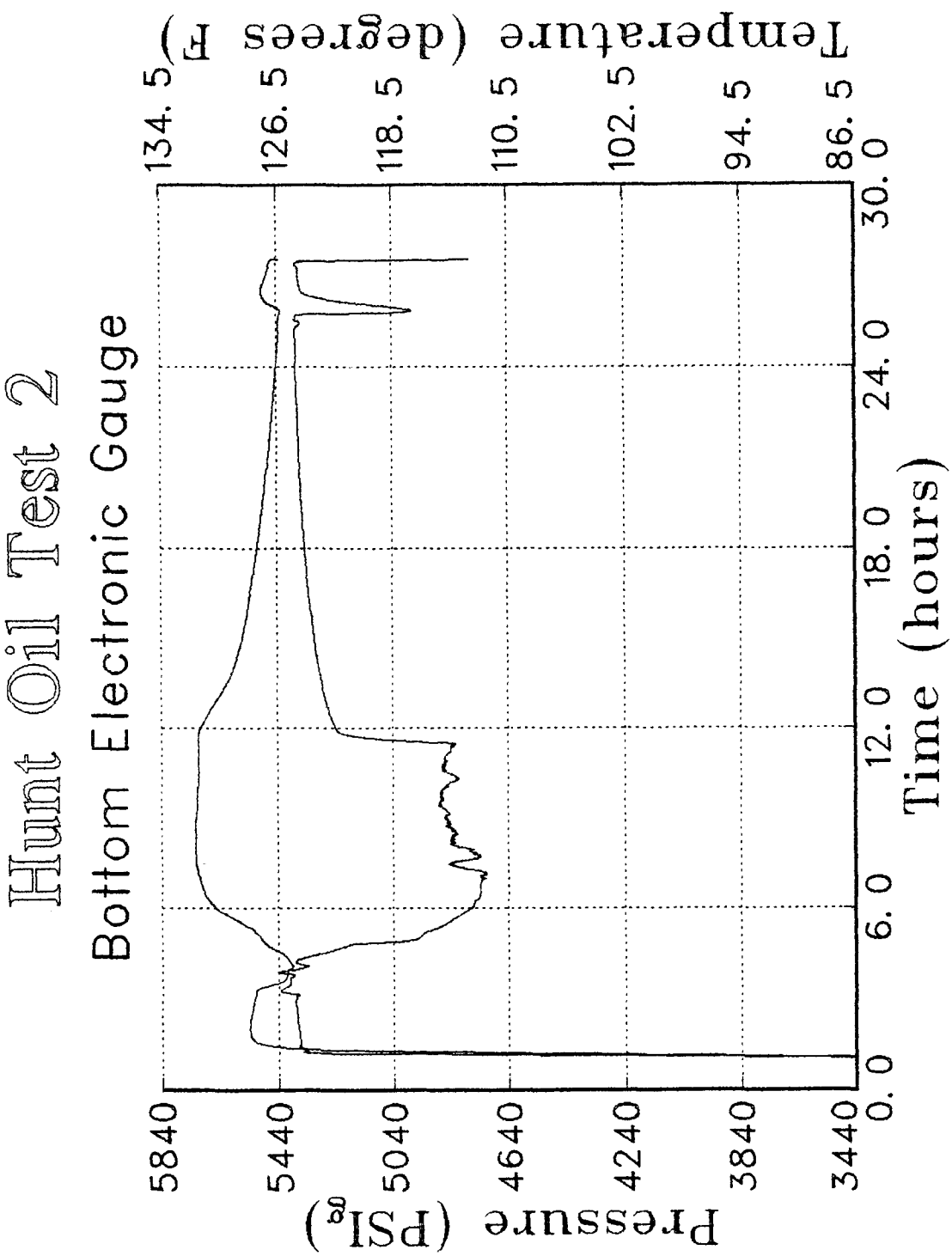
FLOW RATE: 50 BPH WATER FOR 14½ HRS

SALINITY: 248000+ WEIGHT: 10.6# GAL

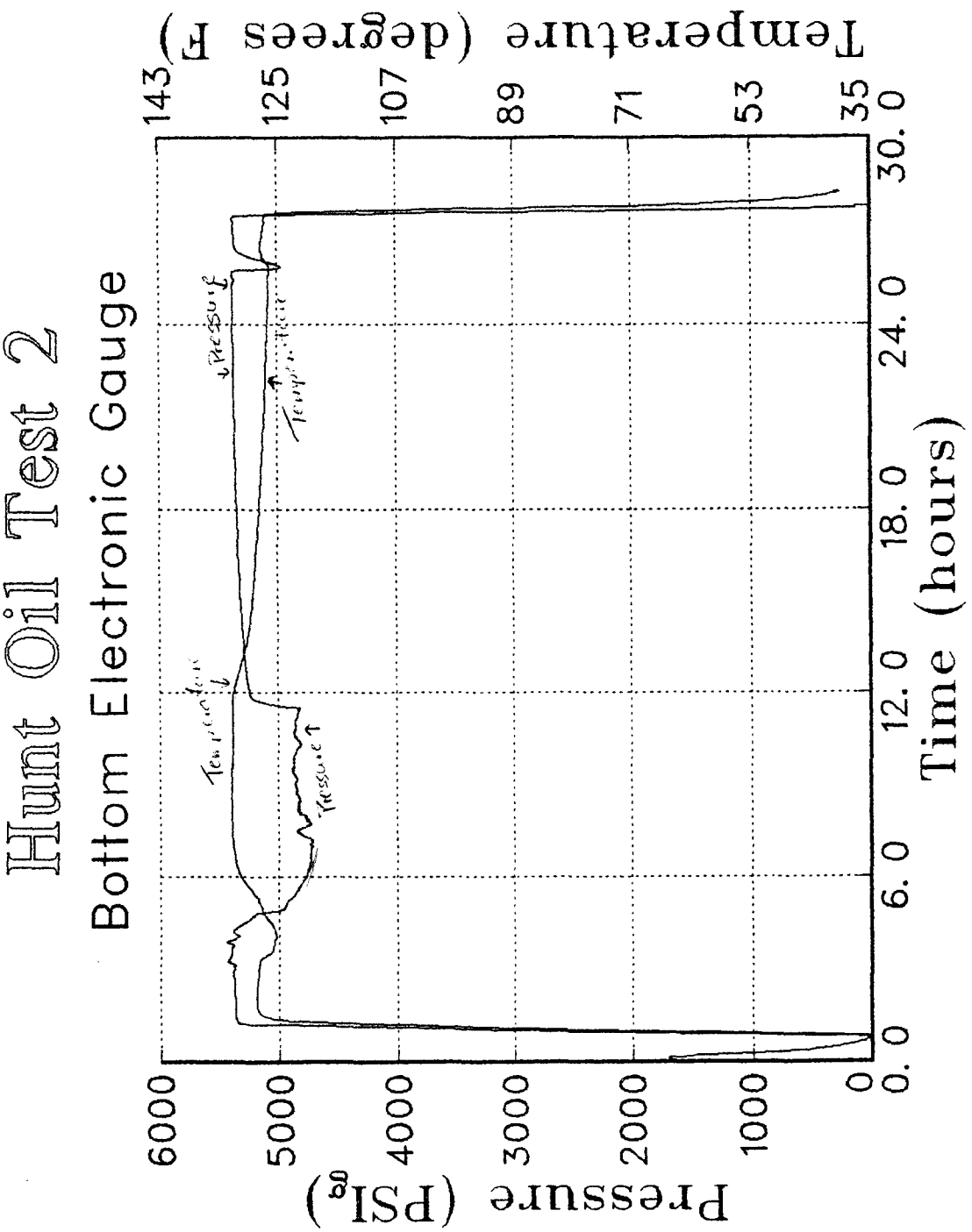
SHUT-IN: 15½

~~P* 6013 psia w/.55 @ 12105~~
P* 5738 psia w/.55 @ 11605
Equ M WT = 9.5

ZIPGRAPH 3. 1b6 for Z. I. Probes, Edmonton Apr. 10, 1995 14:28:51



ZIPGRAPH 3. 1b6 for Z. I. Probes, Edmonton Apr. 10, 1995 14:19:52



Z.I.PROBES FIELD REPORT

Please fill this page out completely. Indicate N/A when information is not available to you.
Return this form with our probes. Thanks! See backside for important info.

Oil Co. Hunt Oil	Job No.
Z.I.Probes should send reports to: Name Solid Resources Phone 237-6050 Address Dan MACdermott #409 734 7th St S.W. Calgary, Alta	
Service Company Solid Resources	
Representative Will Stordy	Phone 709-644-2350
Well Name HUNT OIL - Port-au-Port #1	
Well Location (LSD) Port-au-Port, Newfoundland	
Field N/A	Pool N/A
% H2S Sour —	Type of inhibitor used: —
Status: ☐ Oil ☐ Gas ☐ Other:	
Type of Test: ☑ Flow and Buildup ☐ Static Gradient ☐ Interference Other:	

Static Gradient Depth Table ☐ mKB ☐ mCF

Step	Depth	Start Time of Step	End Time of Step

Producing Interval (Perfs of interest) NA	☒ mKB ☐ mCF
Midpoint of Perfs (MPP of interest) NA	☐ mKB ☐ mCF
Casing Flange CF — m	KB-CF — m
Kelly Bushing KB — m	Ground Level GL — m
Plugged Back Total Depth (PBTD) —	☐ mKB ☐ mCF
Total Depth (TD) —	☐ mKB ☐ mCF
Production Casing — mm	Production Tubing — mm

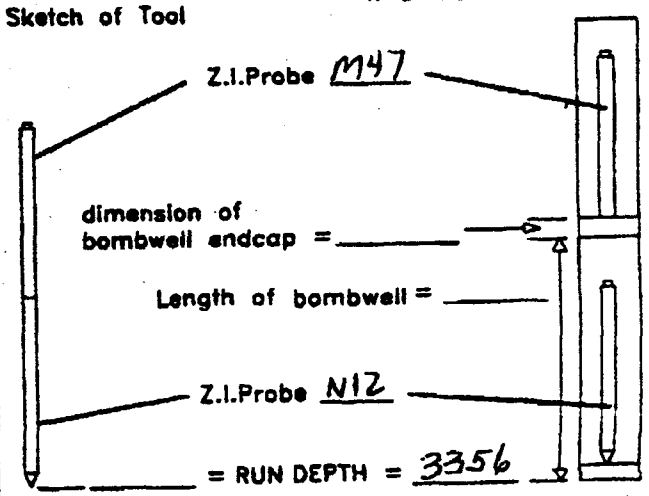
Shut in Dates/Durations

TUBING dead weight Dates/Times	Pressure	CASING dead weight Dates/Times	Pressure
—		—	

Date/Time On Bottom	Date/Time Off Bottom
9April,'95 09:05:00 Am	10April,'95 11:21:00 Am

If Bombwells Used:

Sketch of Tool



☒ mKB ☐ mCF

Test #2

SOLID RESOURCES LTD.

FIELD DATA

CUSTOMER: Hunt Oil Company
WELL NAME: NFLD PROJECT #1

PAGE 05 JOB # 63
DATE APRIL 8, 1995 ZONE

FLOWING (TUBING) CASING
TEST INTERVAL M

GAS TO: FLARE PIPELINE (VENT)
GAS GRAVITY H.S. .80 L.S.

TIME	WELLHEAD DATA			SEPARATOR GAS DATA				FLUID DATA														
				HS MR. 182.49 mm Orf.				Fl Meter # OIL				Fl. Meter # OIL			Fl. Meter # H_2O			Fl. Meter #				
				HS M. 1723 X 99.6				SIZE FACTOR				Size FACTOR			SIZE FACTOR			SIZE FACTOR				
								TK # TK #				TK # TK #										
S.I. UNITS	TUBE PRESS Pga/kPa			LS MR. LS M.		mm Orf. X		CAP m^3 m^3/mm			OIL DATA	CAP 64.0 09043 m^3 m^3/mm			WATER DATA			SHIPPING		Salinity PPM	BS&W $\%H_2O$	
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d		mm	m^3	Hrly. Prod. m^3	Comm. Prod. m^3		mm	m^3	Hrly. Water Prod. m^3	Cumm. Water Prod. m^3		OIL SHP. m^3	WATER SHP. m^3	G.O.R.	TK. TEMP. DEG. C.
0945	Change Zones, Safety meeting.																					
1020	Endless Tubing Pressure tested and Starting into the well.																					
1050	Fluid to Surface.																					
1300		Start Gauging Fluid Returns														10.21	10.21					
1345		Endless tubing on bottom, Starting to mix acid.																				
1400																2.51	12.72					
1430	2000	Hold well	Pressure at 2000 KPA to do acid wash																			
1442	Shut well in at Frac MANIFOLD TO MONITOR ACID WASH.																					
1443	2700																					
1500	2200	Pressure up Endless tubing unit and Start Acid Squeeze.														2.98	15.70					

CUMM. PROD. SINCE (Hrs.)			LIQUID PRODUCTION:	TANK #	TANK #
GAS PRODUCTION (Hrs.)		10E3m^3	BALANCE:	OIL H_2O	OIL
GAS PRODUCTION COMM.		10E3m^3	OPENING GAUGE:		
LIQUID PRODUCTION (Hrs.)			PRODUCTION		
OIL m^3	Water m^3		TOTALS:		
LIQUID PRODUCTION CUMM.			MINUS SHIPPING:		
OIL m^3	Water m^3		CLOSING GAUGE:		

SOLID RESOURCES LTD.

FIELD DATA

CUSTOMER: HunT Oil Company
WELL NAME: NFLD PROJECT #1

PAGE 05
DATE APRIL 8, 1995

JOB # 63
ZONE

FLOWING <TUBING> CASING
TEST INTERVAL M

GAS TO: FLARE PIPELINE <VENT>
GAS GRAVITY H.S. L.S.

TIME	WELLHEAD DATA			SEPARATOR GAS DATA				FLUID DATA														
				HS MR. 102.49 mm Orf.				Fl Meter # OIL				Fl. Meter # OIL			Fl. Meter # H_2O			Fl. Meter #				
				HS M. 1723 x 99.6				SIZE FACTOR				Size FACTOR			SIZE FACTOR			SIZE FACTOR				
								TK # TK #				TK # TK #										
S.I. UNITS	TUBE PRESS Pga/kPa			LS MR. mm Orf.				CAP m^3 m^3/mm			OIL DATA	CAP 64.0 m^3 0.01043 m^3/mm			WATER DATA			SHIPPING			Salinity PPM	BS&W $\%H_2O$
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d		mm	m^3	Hrly. Prod. m^3	Comm. Prod. m^3		mm	m^3	Hrly. Water Prod. m^3	Cumm. Water Prod. m^3		OIL SHP. m^3	WATER SHP. m^3	G.O.R.	TK. TEMP. DEG. C.
0945	Change Zones, Safety MEETING.																					
1020	Endless Tubing Pressure tested and Starting into the well.																					
1050	Fluid to Surface.																					
1300		Start Gauging Fluid Returns.														10.21	10.21					
1345	Endless Tubing on bottom, Starting to Mix Acid.																					
1400																2.51	12.72					
1430	2000	Hold well Pressure at 2000 KPa to do acid wash.																				
1442	Shut well in at Frac manifold to Monitor acid wash.																					
1443	2700																					
1500	2200	Pressure up Endless Tubing unit and Start acid Squeeze.														2.98	15.70					

CUMM. PROD. SINCE (Hrs.)		LIQUID PRODUCTION: TANK #	TANK #
GAS PRODUCTION (Hrs.)	10E3m³	BALANCE: OIL H_2O	OIL
GAS PRODUCTION COMM.	10E3m³	OPENING GAUGE:	
LIQUID PRODUCTION (Hrs.)		PRODUCTION	
OIL m^3 Water	m^3	TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m^3 Water	m^3	CLOSING GAUGE:	

SOLID RESOURCES LTD.

FIELD DATA

CUSTOMER: Hunt Oil Company
WELL NAME: NFLD PROJECT #1

PAGE 06 JOB # 63
DATE APRIL 08/1995 ZONE

FLOWING (TUBING) CASING GAS TO: FLARE PIPELINE (VENT)
TEST INTERVAL M GAS GRAVITY H.S. L.S.

HS MR. 102.49 mm Orf.
HS M. 1723 KPa x 99.6 KPa

LS MR. mm Orf.
LS M. X

Fl Meter # OIL
SIZE FACTOR
TK # TK #

Fl. Meter # OIL
Size FACTOR
TK # TK #

Fl. Meter # H_2O
SIZE FACTOR

Fl. Meter #
SIZE FACTOR

CAP m^3 m^3/mm

CAP 64.0 m^3 m^3/mm
0.01043

TIME	WELLHEAD DATA			SEPARATOR GAS DATA				FLUID DATA								WATER DATA			SHIPPING			
S.I. UNITS	TUBE PRESS Pga/kPa										OIL DATA										Salinity PPM	BS&W $\%H_2O$
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d		mm	m^3	Hrly. Prod. m^3	Comm. Prod. m^3		mm	m^3	Hrly. Water Prod. m^3	Cumm. Water Prod. m^3		OIL SHP. m^3	WATER SHP. m^3	G.O.R.	TK. TEMP. DEG. C.
1710	3516	OPEN WELL ON 7.94 mm											O/G	–	–	–	15.70					
	Back Pressure closed to Keep Pressure in P-tank and Ship Fluid.																					
1715	758															0.35	16.05				240,000	PH-6
1730	1344															0.41	16.46					
1745	1172															0.56	17.02					
1750	Increase choke to 19.05 mm Pull open.																					
1800	206															0.71	17.73				240,000	PH-6
1815	344															1.23	18.96					
1830	206															1.56	20.52					
1845	206															1.80	22.32					
1900	206															1.90	24.22				152,881	

CUMM. PROD. SINCE (Hrs.)		LIQUID PRODUCTION: TANK #	TANK #
GAS PRODUCTION (Hrs.)	10E3m³	BALANCE: OIL H_2O	OIL
GAS PRODUCTION COMM.	10E3m³	OPENING GAUGE:	
LIQUID PRODUCTION (Hrs.)		PRODUCTION	
OIL m^3 Water	m^3	TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m^3 Water	m^3	CLOSING GAUGE:	

SOLID RESOURCES LTD.

FIELD DATA

CUSTOMER: Hunt Oil Company
WELL NAME: NFLD PROJECT #1
FLOWING (TUBING) CASING
TEST INTERVAL M

GAS TO: FLARE PIPELINE (VENT)
GAS GRAVITY H.S. L.S.

PAGE 06 JOB # 63
DATE APRIL 8, 1995 ZONE

TIME	WELLHEAD DATA			SEPARATOR GAS DATA				FLUID DATA															
				HS MR. 102.49 mm Orf.				Fl Meter # OIL				Fl. Meter # OIL				Fl. Meter # H_2O				Fl. Meter #			
				HS M. 1723 KPA X 99.6 KPA				SIZE FACTOR				Size FACTOR				SIZE FACTOR				SIZE FACTOR			
								TK # TK #				TK # TK #											
S.I. UNITS	TUBE PRESS Pga/kPa			LS MR. mm Orf.				CAP m^3 m^3/mm			OIL DATA		CAP 64 m^3			WATER DATA			SHIPPING		Salinity PPM	BS&W $\%H_2O$
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	LS M. X	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d		mm	m^3	Hrly. Prod. m^3	Comm. Prod. m^3	0.01043	mm	m^3 m^3/mm	Hrly. Water Prod. m^3	Cumm. Water Prod. m^3		OIL SHP. m^3	WATER SHP. m^3	G.O.R.	TK. TEMP. DEG. C.
1710	3516	OPEN WELL ON 7.94 mm												0/6	—	—	—	15.7					
	BACK PRESSURE TO KEEP PRESSURE IN P-TANK AND SHIP FLUID																						
1715	758																0.35	16.05				240.000	PH-6
1730	1344																0.41	16.46					
1745	1172																0.56	17.02					
1750	INCREASE CHOKE 19.05 mm FULL OPEN																						
1800	206																0.71	17.73				240.000	PH-6
1815	344																1.23	18.96					
1830	206																1.56	20.52					
1845	206																1.80	22.32					
1900	206																1.90	24.22				152889	

CUMM. PROD. SINCE (Hrs.)				LIQUID PRODUCTION: TANK #	TANK #
GAS PRODUCTION (Hrs.)		10E3m^3		BALANCE: OIL H_2O	OIL
GAS PRODUCTION COMM.		10E3m^3		OPENING GAUGE:	
LIQUID PRODUCTION (Hrs.)				PRODUCTION	
OIL	m^3	Water	m^3	TOTALS:	
LIQUID PRODUCTION CUMM.				MINUS SHIPPING:	
OIL	m^3	Water	m^3	CLOSING GAUGE:	

SOLID RESOURCES LTD.

FIELD DATA

CUSTOMER: Hunt Oil Company
WELL NAME: NFLD PROJECT #1

PAGE 07 JOB # 63
DATE APRIL 8, 1995 ZONE
FLOWING: (TUBING) CASING GAS TO: FLARE PIPELINE <VENT>
TEST INTERVAL M GAS GRAVITY H.S. L.S.

TIME	WELLHEAD DATA			SEPARATOR GAS DATA				FLUID DATA														
				HS MR. 102.49 HS M. 1723		mm Orf. 31.75 x 99.8		Fl Meter # SIZE TK #		OIL FACTOR TK #		Fl. Meter # Size TK #		OIL FACTOR TK #	Fl. Meter # SIZE		H_2O FACTOR	Fl. Meter # SIZE		FACTOR		
S.I. UNITS	TUBE PRESS Pga/kPa			LS MR. LS M.		mm Orf. X		CAP		m^3 m^3/mm	OIL DATA		CAP 64.0 0.01043		m^3 m^3/mm	WATER DATA			SHIPPING		Salinity PPM	BS&W $\%H_2O$
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d		mm	m^3	Hrly. Prod. m^3	Comm. Prod. m^3		mm	m^3	Hrly. Water Prod. m^3	Comm. Water Prod. m^3		OIL SHP. m^3	Fluid weight	G.O.R.	TK. TEMP. DEG. C.
	19.05												0/6	—	—	—	24.22				
1915	206															0.47	24.69				
1930	172															1.10	25.79				
1945	172															0.69	26.48				
		START	Pumping N2																		
2000	206															0.89	27.37				
2015	206															1.37	28.74				
2030	1379															3.28	32.02			158,222	PH7
2045	1275			344	11.70	8	13.48		METER IN SERVICE		31.75 mm		orifice plate			1.62	33.64				
2100	1275			379	31.87	8	23.09									1.57	35.21		9.5		
2115	1241			379	41.33	8	26.30									1.47	36.68		9.5		
2130	1379			379	41.83	8	26.45									0.45	37.13		9.5	152,589	PH-7

CUMM. PROD. SINCE (Hrs.)		LIQUID PRODUCTION: TANK #	TANK #
GAS PRODUCTION (Hrs.)	$10E3m^3$	BALANCE: OIL H_2O	OIL
GAS PRODUCTION COMM.	$10E3m^3$	OPENING GAUGE:	
LIQUID PRODUCTION (Hrs.)		PRODUCTION	
OIL m^3 Water m^3		TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m^3 Water m^3		CLOSING GAUGE:	

SOLID RESOURCES LTD.

FIELD DATA

CUSTOMER: HUNT OIL COMPANY
WELL NAME: NFLD PROJECT #1

PAGE 08 JOB # 63
DATE APRIL 8,95 ZONE

FLOWING <TUBING> CASING
TEST INTERVAL M

GAS TO: FLARE PIPELINE <VENT>
GAS GRAVITY H.S. .80 L.S.

TIME	WELLHEAD DATA			SEPARATOR GAS DATA				FLUID DATA																
				HS MR. 102.49 mm Orf. 31.75 HS M. 1723 X 99.8				Fl Meter # OIL SIZE FACTOR TK # TK #					Fl. Meter # OIL Size FACTOR TK # TK #			Fl. Meter # H_2O SIZE FACTOR			Fl. Meter # SIZE FACTOR					
S.I. UNITS	TUBE PRESS Pga/kPa			LS MR. mm Orf. LS M. X				CAP m^3 m^3/mm			OIL DATA		CAP 64.0 m^3 0.01043 m^3/mm			WATER DATA			SHIPPING			Salinity PPM	BS&W $\%H_2O$	
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d		mm	m^3	Hrly. Prod. m^3	Comm. Prod. m^3		mm	m^3	Hrly. Water Prod. m^3	Cumm. Water Prod. m^3		OIL SHP. m^3	Fluid weight	G.O.R.		TK. TEMP. DEG. C.
	19.05							0/6	—								32.13						
2145	1379			379	40.83	8	26.14									0.08	37.21			9.4	N/A	N/A	
2200	1379			379	15.43	8	16.07									0.45	37.66			9.2	SAL 17.2	PH-7	
2215	1930			379	32.37	8	23.27									2.79	40.45			8.7	64.000	PH-6	
2230	1861			379	19.92	8	18.26									1.97	42.42			8.7	N/A	N/A	
	N^2 Production Increased.																						
2245	1723			379	12.94	8	14.72									1.68	44.10			8.8	62.272	PH-6	
	N^2 and Fluid to Surface																						
2300	N/A			379	N/A	8	N/A									4.75	48.85			8.8	N/A	N/A	
2315	N/A			379	N/A	8	N/A									2.13	50.98			10.4	N/A	N/A	
2330	N/A			379	N/A	8	N/A									2.22	53.20			10.4	N/A	N/A	
2345	N/A			379	20.91	8	18.71									1.47	54.67			10.4	N/A	N/A	
2400	N/A			379	21.41	8	18.93									1.84	56.51			10.4	N/A	N/A	

CUMM. PROD. SINCE (Hrs.)		LIQUID PRODUCTION: TANK #	TANK #
GAS PRODUCTION (Hrs.)	10E3m^3	BALANCE: OIL H_2O	OIL
GAS PRODUCTION COMM.	10E3m^3	OPENING GAUGE:	
LIQUID PRODUCTION (Hrs.)		PRODUCTION	
OIL m^3 Water m^3		TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m^3 Water m^3		CLOSING GAUGE:	

SOLID RESOURCES LTD.

FIELD DATA

CUSTOMER: HUNT OIL COMPANY
WELL NAME: NFLD PROJECT

PAGE 09 JOB # 63 FLOWING (TUBING) CASING GAS TO: FLARE PIPELINE (VENT)
DATE APRIL 9.95 ZONE TEST INTERVAL M GAS GRAVITY H.S. .80 L.S.

TIME	WELLHEAD DATA			SEPARATOR GAS DATA				FLUID DATA																	
				HS MR. 102.49 HS M. 1723		mm Orf. 31.75 x 99.6		Fl Meter # SIZE TK #		OIL FACTOR TK #		Fl. Meter # Size TK #		OIL FACTOR TK #		Fl. Meter # SIZE		H_2O FACTOR		Fl. Meter # SIZE		FACTOR			
S.I. UNITS	TUBE PRESS Pga/kPa			LS MR. LS M.		mm Orf. X		CAP		m^3 m^3/mm	OIL DATA			CAP 64.0 0.01043		m^3 m^3/mm	WATER DATA			SHIPPING		Salinity PPM	BS&W $\%H_2O$		
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d		mm	m^3	Hrly. Prod. m^3	Comm. Prod. m^3			mm	m^3	Hrly. Water Prod. m^3	Cumm. Water Prod. m^3		OIL SHP. m^3	FLUID WEIGHT	G.O.R.	TK. TEMP. DEG. C.	
														0/6	–			56.51					
2415	1034			379	70.91	8	18.71										1.88	58.39			10.4	248,889	PH-6	
2430	1034			379	38.34	8	25.33										2.31	60.70			10.4	248,889	PH-6	
2445	1034			379	31.87	8	23.09										1.89	62.59			10.4	248,889	PH-4	
0100	1034			379	30.62	10	22.56										4.81	67.40			10.4	248,889	PH-4	
0115	1103			379	39.84	10	25.73										1.15	68.55			10.4	248,889	PH-2	
0130	1103			379	42.33	10	26.52										1.73	70.28			10.6	248,889	PH-1	
0145	1103			379	32.86	10	23.37										0.12	70.40			10.6	248,889	PH-3	
0700	1103			379	59.76	10	31.51										4.98	75.38			10.6	248,889	PH-4	
0215	1103			379	32.37	11	23.15										4.32	79.70			10.6	248,889	PH-4	
0230	1103			379	36.10	11	24.45										0.67	80.37			10.6	248,889	PH-5	

CUMM. PROD. SINCE (Hrs.)		LIQUID PRODUCTION: TANK #	TANK #
GAS PRODUCTION (Hrs.)	$10E3m^3$	BALANCE: OIL H_2O	OIL
GAS PRODUCTION COMM.	$10E3m^3$	OPENING GAUGE:	
LIQUID PRODUCTION (Hrs.)		PRODUCTION	
OIL m^3	Water m^3	TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m^3	Water m^3	CLOSING GAUGE:	

SOLID RESOURCES LTD.

FIELD DATA

CUSTOMER: HUNT OIL COMPANY
WELL NAME: NFLD PROJECT #1
FLOWING <TUBING> CASING
TEST INTERVAL M

GAS TO: FLARE PIPELINE <VENT>
GAS GRAVITY H.S. .80 L.S.

PAGE 10 JOB # 63
DATE APRIL 9.95 ZONE

TIME	WELLHEAD DATA			SEPARATOR GAS DATA				FLUID DATA														
				HS MR. 102.49 HS M. 1723		mm Orf. 31.75 X 99.8		Fl Meter # SIZE TK #		OIL FACTOR TK #		Fl. Meter # Size TK #		OIL FACTOR TK #		Fl. Meter # SIZE		H_2O FACTOR		Fl. Meter # SIZE		FACTOR
S.I. UNITS	TUBE PRESS Pga/kPa			LS MR. LS M.		mm Orf. X		CAP		m^3 m^3/mm	OIL DATA			CAP 64.0 0.01043		m^3 m^3/mm	WATER DATA			SHIPPING		Salinity PPM	BS&W $\%H_2O$
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d		mm	m^3	Hrly. Prod. m^3	Comm. Prod. m^3			mm	m^3	Hrly. Water Prod. m^3	Cumm. Water Prod. m^3		OIL SHP. m^3	Fluid weight	G.O.R.	TK. TEMP. DEG. C.
	1													0/6			—	80.37					
0245	1103			379	12.45	11	14.36										1.39	81.76			10.6	248,889	PH-5
0300	1103			379	30.87	11	22.61										4.96	86.72			10.6	248,889	PH-5 1% SED
0315	1103			379	29.84	11	25.68										0.15	86.87			10.7	248,889	PH-5
0330	1103			379	29.88	11	22.24										0.90	87.77			10.7	248,889	PH-5 .1% SED
0345	1103			379	29.88	11	22.24										2.18	89.95			10.6	248,889	PH-5 .1% SED
0400	1103			379	29.88	11	22.24										0.58	90.53			10.6	248,889	
0415	1103			379	29.13	11	21.96										0.79	91.32			10.6	248,889	PH-5 .1% SED
0430	1103			379	24.90	11	20.30										3.80	95.12			10.6	248,889	PH-5
	Shut wells in to Bur Recorders.																						

Gas Production is N_2
Liquid Production Cumm is from N_2 Lift test.

CUMM. PROD. SINCE (2000 Hrs.) APRIL 8.95		LIQUID PRODUCTION:	TANK #
GAS PRODUCTION (Hrs.) 7.37 10E3m³		BALANCE: OIL H_2O	TANK # OIL
GAS PRODUCTION COMM. 8 HRS) 7.37 10E3m³		OPENING GAUGE:	
LIQUID PRODUCTION (2000 Hrs.)		PRODUCTION	
OIL m^3 Water 67.75 m^3		TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m^3 Water 67.75 m^3		CLOSING GAUGE:	

SOLID RESOURCES LTD.

FIELD DATA

CUSTOMER: Hunt Oil Company
WELL NAME: NFLD PROJECT #1

PAGE 11 JOB # 63
DATE APRIL 09, 1995 ZONE

FLOWING: TUBING CASING
TEST INTERVAL M

GAS TO: FLARE PIPELINE VENT
GAS GRAVITY H.S., 80 L.S.

TIME	WELLHEAD DATA			SEPARATOR GAS DATA				FLUID DATA														
				HS MR. 102.49 HS M. 1723		mm Orf. 31.75 x 99.6		Fl Meter # OIL SIZE FACTOR TK # TK #			Fl. Meter # OIL Size 2" FACTOR TK # TK #			Fl. Meter # 5877 SIZE 2"		H_2O FACTOR 1.0000	Fl. Meter # SIZE 50.8		FACTOR 1.0000		
S.I. UNITS	TUBE PRESS Pga/kPa			LS MR. LS M.		mm Orf. X		CAP	m^3 m^3/mm	OIL DATA		CAP 15.9 0.004501	m^3 m^3/mm			WATER DATA			SHIPPING		Salinity PPM	BS&W $\%H_2O$
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d		mm	m^3	Hrly. Prod. m^3	Comm. Prod. m^3		mm	m^3	Hrly. Water Prod. m^3	Cumm. Water Prod. m^3		OIL SHP. m^3	Fluid weight	G.O.R.	TK. TEMP. DEG. C.
1100	open well and start Running in with Endless tubing and N^2.										13.89	mm choke		O/G	-	-	-	Ø				
1115	965																					
1130	1137			448	39.84	5	27.76		METER IN SERVICE			31.75mm orifice plate				Ø	Ø					
1140	Fluid to Surface.																					
1145	1654			461	31.37	6	24.89									0.45	0.45					
1200	1447			455	19.92	6	19.71		Fluid Flow METER IN SERVICE.							0.49	0.94			10:6	248.889 PH-6	1.0%SED
1215	2137			468	23.90	8	21.78									1.40	2.34					
1230	2275			372	41.83	8	26.26									1.38	3.72					
	Back Pressure valve Failed open. Set manuel Back Pressure																					
1240	Increase choke to 50.8 mm																					
1245	1241			413	49.9	8	29.88									1.83	5.55					

CUMM. PROD. SINCE (Hrs.)		LIQUID PRODUCTION: TANK #	TANK #
GAS PRODUCTION (Hrs.)	10E3m³	BALANCE: OIL H_2O	OIL
GAS PRODUCTION COMM.	10E3m³	OPENING GAUGE:	
LIQUID PRODUCTION (Hrs.)		PRODUCTION	
OIL m^3 Water	m^3	TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m^3 Water	m^3	CLOSING GAUGE:	

SOLID RESOURCES LTD.

FIELD DATA

CUSTOMER: Hunt Oil Company
WELL NAME: NFLD PROJECT #1

PAGE 12 JOB # 63
DATE APRIL 09, 1995 ZONE
FLOWING: (TUBING) CASING GAS TO: FLARE PIPELINE <VENT>
TEST INTERVAL M GAS GRAVITY H.S. .80 L.S.

TIME	WELLHEAD DATA			SEPARATOR GAS DATA				FLUID DATA																
				HS MR. 102.49 HS M. 1723		mm Orf. 31.75 X 99.6		Fl Meter # OIL SIZE FACTOR TK # TK #				Fl. Meter # OIL Size FACTOR TK # TK #				Fl. Meter # 5877 SIZE 2" H2O FACTOR 1.0000				Fl. Meter # SIZE 50.8 FACTOR 1.0000			
S.I. UNITS	TUBE PRESS Pga/kPa			LS MR. LS M.		mm Orf. X		CAP	m³ m³/mm		OIL DATA		CAP 15.9 0.004501	m³ m³/mm		WATER DATA			SHIPPING		Salinity PPM	BS&W %H2O
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d		mm	m³	Hrly. Prod. m³	Comm. Prod. m³		mm	m³	Hrly. Water Prod. m³	Cumm. Water Prod. m³		OIL SHP. m³	Fluid weight	G.O.R.	TK. TEMP. DEG. C.
	50.8															0/6	5.55					
1300	965			482	29.88	10	24.56									2.19	7.74			10.4	248.889	94.8%H2O
																				@5%oil	PH-6	0.2%SED
1315	965			448	39.09	10	27.25									2.15	9.89					
1330	896			448	37.10	11	26.50									1.76	11.65					
1340	Endless tubing Stopped For Fluid lift TEST.																					
1345	965			448	39.84	11	27.46									2.18	13.83					
1400	827			448	33.37	12	25.09									1.85	15.68			10.5	248.889	99.6%H2O
																				TRACE oil	PH-6	0.4%SED
1415	827			448	38.34	12	26.89									1.87	17.55					
1430	896			455	39.34	12	27.41									2.17	19.72					
1445	896			455	38.84	12	27.24									1.92	21.64					
1500	896			455	39.84	12	27.59									1.66	23.30			10.55	248.889	98.9%H2O
																				No trace oil	PH-6	0.1%SED
1515	758			455	19.92	12	19.51									1.20	24.50					

CUMM. PROD. SINCE (Hrs.)		LIQUID PRODUCTION: TANK #	TANK #
GAS PRODUCTION (Hrs.)	10E3m³	BALANCE: OIL H2O	OIL
GAS PRODUCTION COMM.	10E3m³	OPENING GAUGE:	
LIQUID PRODUCTION (Hrs.)		PRODUCTION	
OIL m³ Water	m³	TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m³ Water	m³	CLOSING GAUGE:	

SOLID RESOURCES LTD.

FIELD DATA

CUSTOMER: Hunt oil Company
WELL NAME: NFLD PROJECT #1

PAGE 13 JOB # 63
DATE APRIL 09, 1995 ZONE

FLOWING: <TUBING> CASING
TEST INTERVAL M

GAS TO: FLARE PIPELINE <VENT>
GAS GRAVITY H.S. .80 L.S.

TIME	WELLHEAD DATA			SEPARATOR GAS DATA				FLUID DATA															
				HS MR. 102.49 mm Orf. 31.75 HS M. 1723 X 99.6				Fl Meter # OIL SIZE FACTOR TK # TK #				Fl. Meter # OIL Size 2" FACTOR TK # TK #				Fl. Meter # H2O SIZE 2" FACTOR 1.00000				Fl. Meter # SIZE FACTOR 50.8mm 1.0000			
S.I. UNITS	TUBE PRESS Pga/kPa			LS MR. mm Orf. LS M. X				CAP m³ m³/mm			OIL DATA		CAP 15.9 m³ m³/mm 0.004801			WATER DATA			SHIPPING		Salinity PPM	BS&W %H2O
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d		mm	m³	Hrly. Prod. m³	Comm. Prod. m³		mm	m³	Hrly. Water Prod. m³	Cumm. Water Prod. m³		OIL SHP. m³	Fluid Weight	G.O.R.	TK. TEMP. DEG. C.
	50.80															0/6	24.50					
1530	896			468	44.82	12	29.62									2.70	22.20					
1545	896			468	34.86	12	26.12									1.79	28.99					
1550	decrease choke and Close bypass To Stable Production Rate.									17.46	mm adjustable choke.											
1600	1723			468	29.88	12	24.18									1.64	30.63			10.5	248.989	99.6%H2O
																				Trace oil	PH-6	0.4%SED
1615	1723			468	34.86	12	26.12									1.93	32.56					

CUMM. PROD. SINCE (Hrs.)		LIQUID PRODUCTION: TANK #	TANK #
GAS PRODUCTION (Hrs.)	10E3m³	BALANCE: OIL H2O	OIL
GAS PRODUCTION COMM.	10E3m³	OPENING GAUGE:	
LIQUID PRODUCTION (Hrs.)		PRODUCTION	
OIL m³ Water	m³	TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m³ Water	m³	CLOSING GAUGE:	

SOLID RESOURCES LTD.

FIELD DATA

CUSTOMER: Hunt Oil Company
WELL NAME: NFLD Project #1

PAGE 14 JOB # 63
DATE APRIL 09, 1995 ZONE

FLOWING (TUBING) CASING GAS TO: FLARE PIPELINE <VENT>
TEST INTERVAL M GAS GRAVITY H.S. L.S.

TIME	WELLHEAD DATA			SEPARATOR GAS DATA				FLUID DATA															
				HS MR. 102.49 mm Orf. 31.75 HS M. 1723 X 99.6				Fl Meter # OIL SIZE FACTOR TK # TK #				Fl. Meter # OIL Size FACTOR TK # TK #				Fl. Meter # H_2O SIZE FACTOR				Fl. Meter # SIZE FACTOR			
S.I. UNITS	TUBE PRESS Pga/kPa			LS MR. mm Orf. LS M. X				CAP m^3 m^3/mm			OIL DATA		CAP 15.9 m^3 0.004501 m^3/mm			WATER DATA			SHIPPING		Salinity PPM	BS&W $\%H_2O$
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d		mm	m^3	Hrly. Prod. m^3	Comm. Prod. m^3		mm	m^3	Hrly. Water Prod. m^3	Cumm. Water Prod. m^3		OIL SHP. m^3	Fluid Weight	G.O.R.	TK. TEMP. DEG. C.
	17.46															0/6	32.56						
1630	1723			468	34.86	12	26.12									1.53	34.09						
1645	1896			468	34.86	12	26.12									1.77	35.86						
1700																							
1700	1896			468	39.84	12	27.93									1.66	37.52			10.5	248,889	98.9%H_2O	
																				No trace	PH-6	0.1%Sed	
1715	1896			468	34.86	11	26.17									1.47	38.99						
1730	1896			468	34.86	11	26.17									1.76	40.75						
1745	1999			468	34.86	10	26.21									1.63	42.38						
1800	1723			468	34.86	10	26.21									1.81	44.19						
1815	1723			468	39.84	10	28.02									1.29	45.48						

CUMM. PROD. SINCE (Hrs.)		LIQUID PRODUCTION: TANK #	TANK #
GAS PRODUCTION (Hrs.)	10E3m^3	BALANCE: OIL H_2O	OIL
GAS PRODUCTION COMM.	10E3m^3	OPENING GAUGE:	
LIQUID PRODUCTION (Hrs.)		PRODUCTION	
OIL m^3 Water m^3		TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m^3 Water m^3		CLOSING GAUGE:	

SOLID RESOURCES LTD.

FIELD DATA

CUSTOMER: Hunt Oil Company
WELL NAME: NFLD PROJECT #1

PAGE 15 JOB # 63
DATE APRIL 09, 1995 ZONE
FLOWING (TUBING) CASING GAS TO: FLARE PIPELINE (VENT)
TEST INTERVAL M GAS GRAVITY H.S. .80 L.S.

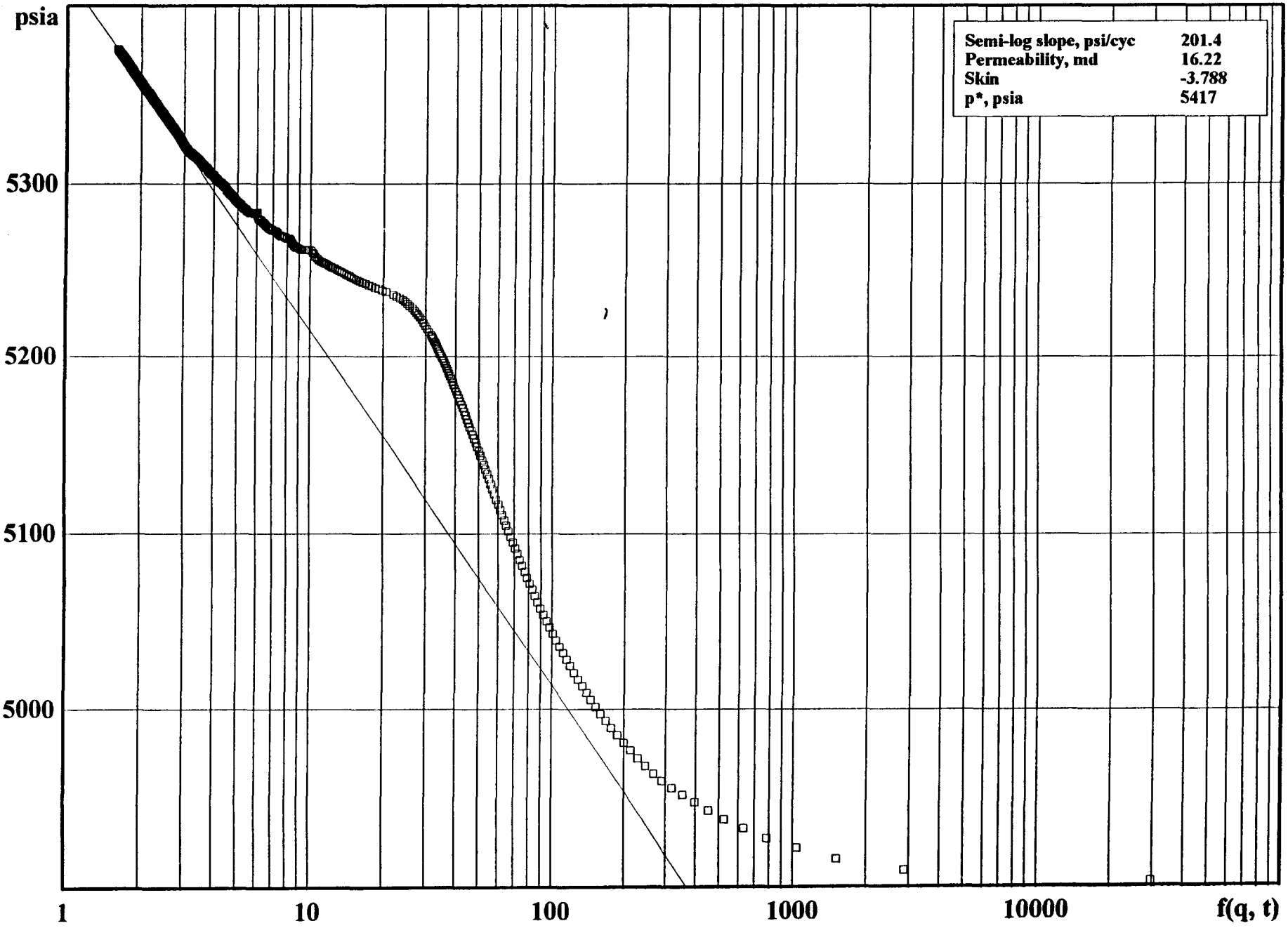
TIME	WELLHEAD DATA			SEPARATOR GAS DATA				FLUID DATA															
				HS MR. 102.49 HS M. 1723		mm Orf. 31.75 x 99.6		Fl Meter # OIL SIZE FACTOR TK # TK #				Fl. Meter # OIL Size FACTOR TK # TK #				Fl. Meter # 5877 H_2O SIZE 2" FACTOR 1.0000				Fl. Meter # SIZE FACTOR 50.8 1.0000			
S.I. UNITS	TUBE PRESS Pga/kPa			LS MR. LS M.		mm Orf. X		CAP	m³ m³/mm		OIL DATA		CAP 15.9 0.004501	m³ m³/mm		WATER DATA			SHIPPING		Salinity PPM	BS&W $\%H_2O$	
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d		mm	m³	Hrly. Prod. m³	Comm. Prod. m³		mm	m³	Hrly. Water Prod. m³	Cumm. Water Prod. m³		OIL SHP. m³	Fluid weight	G.O.R.	TK. TEMP. DEG. C.
	17.46															0/6	45.48						
1830	1861			468	27.39	10	23.24									2.05	47.53						
1845	1861			468	33.61	10	25.74									1.46	48.99						
1900	1930			468	39.84	10	28.02									1.83	50.82						
1915	1654			461	38.34	10	27.33									1.57	52.39						
1920	Shut well in, let Pressure build up on Recorders.															0.53	52.92						
1940	3550 on Frac MANIFOLD.																						

1900 Hrs Take TWO H20 Samples FROM Frac MANIFOLD.

CUMM. PROD. SINCE (1100 Hrs.) APRIL 09, 1995		LIQUID PRODUCTION:	TANK # / TANK #
GAS PRODUCTION (9.33 Hrs.) 10.12 10E3m³		BALANCE: OIL H_2O	OIL
GAS PRODUCTION COMM. 10E3m³		OPENING GAUGE:	
LIQUID PRODUCTION (Hrs.)		PRODUCTION	
OIL m³ Water 52.92 m³		TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m³ Water 52.92 m³		CLOSING GAUGE:	

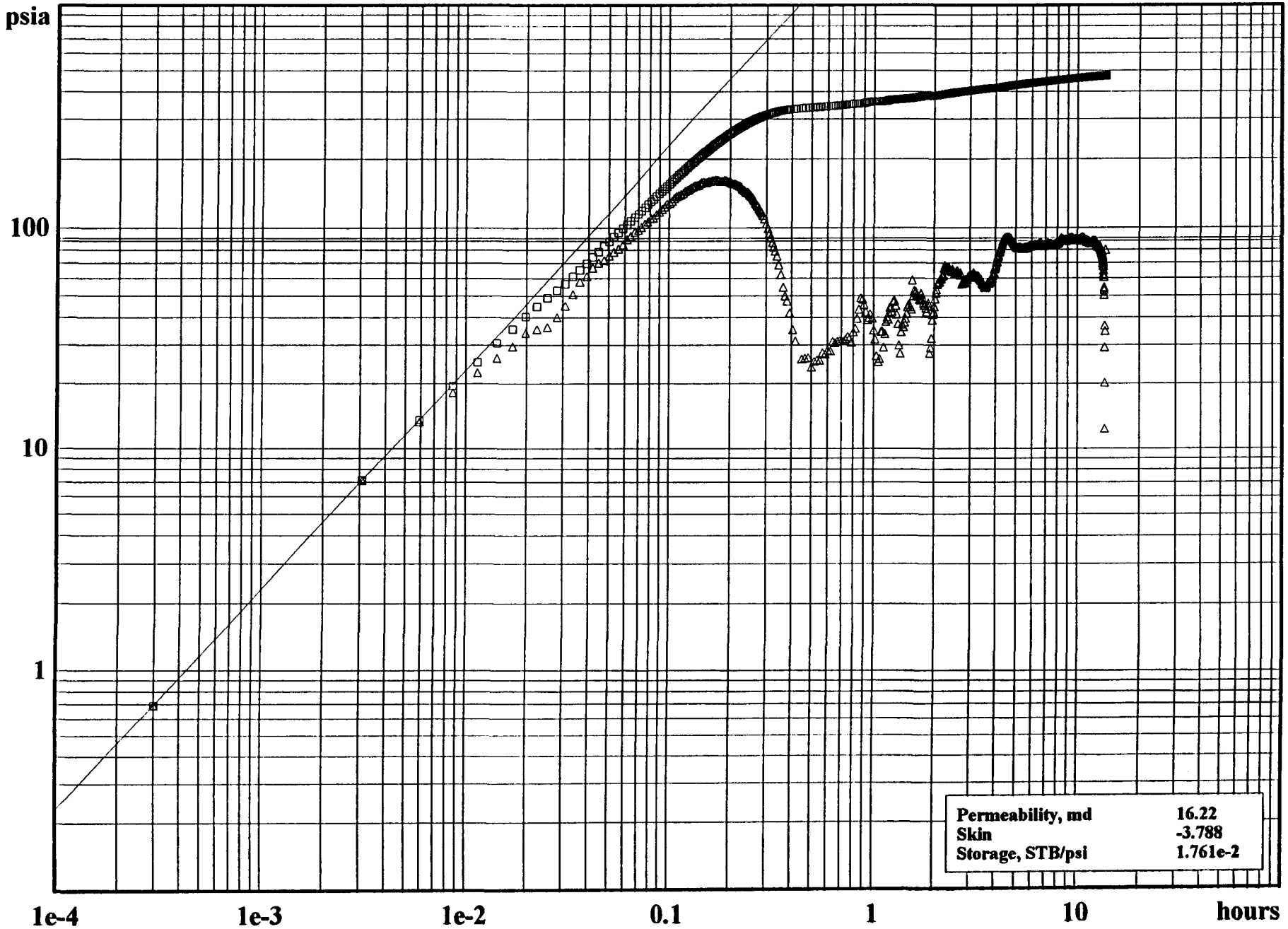
Port au Port Test #2 - Lower Cape Cormorant

Variable rate Horner plot (pressure & time)



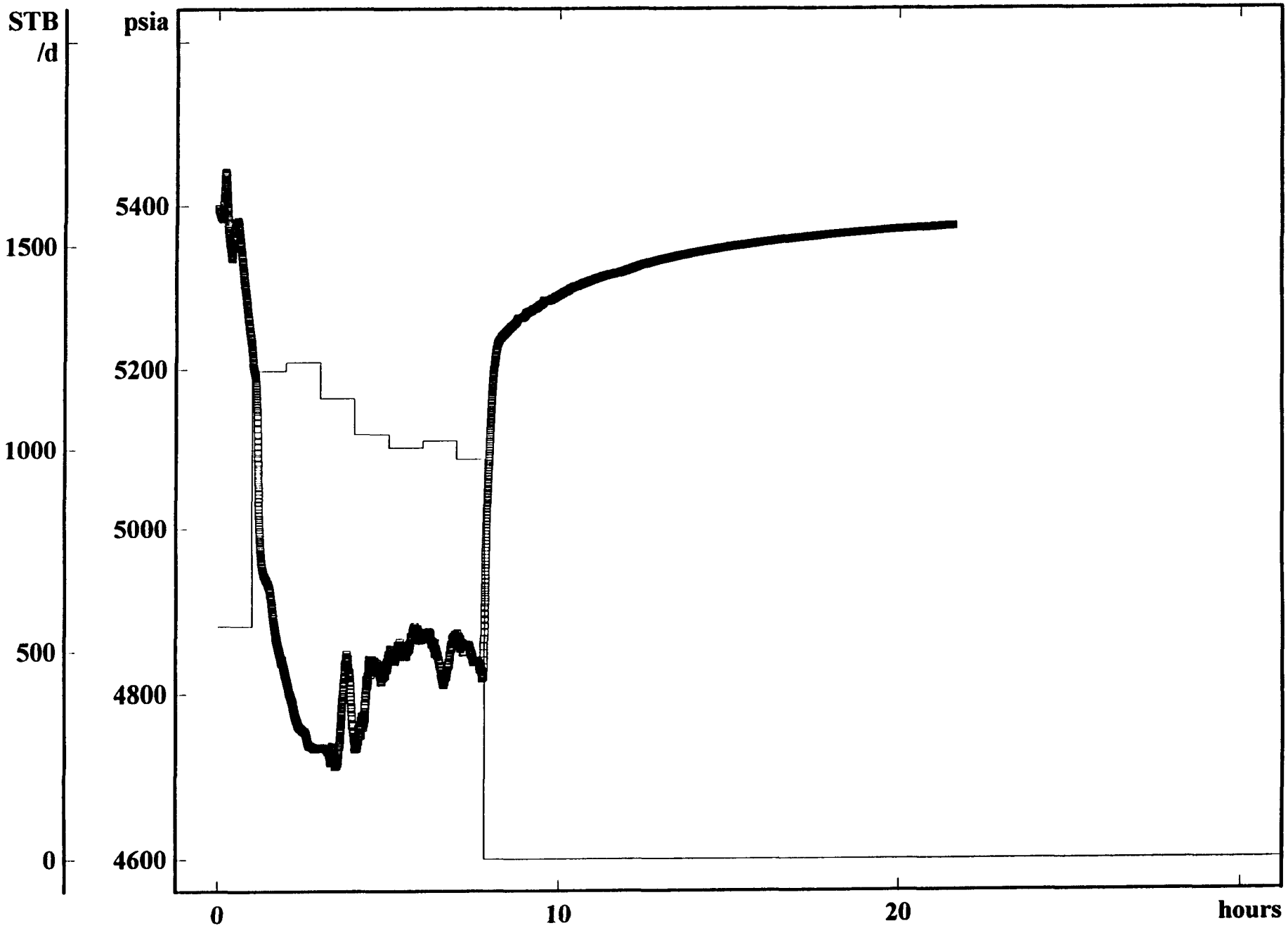
Port au Port Test #2 - Lower Cape Cormorant

Diagnostic plot (pressure & time)



Port au Port Test #[redacted]- Lower Cape Cormorant

Pressure and flow rate vs time during test sequence



Well Test Report

MGI Demo Copy (exp May 15)

Port au Port #1 - Test #2

Port au Port Test #2 - Lower Cape Cormorant

Fluid properties

Prod/Inj fluid	**WATER**	**GOR**	
Water cut	**100 %**	**Condensate yield**	
API gravity		**Gas spec. grav.**	
Viscosity	**0.82498 cp**	**Pseudo-critical T**	
Pseudo-critical P		**H2S mole fraction**	
CO2 mole fraction		**N2 mole fraction**	
Compressibility(t)	**14.244 e-6/psi**	**Formation vol factor**	**0.99798 RB/STB**

Reservoir properties

Porosity	**8.5e-2 frac**	**Formation thickness**	**40 ft**
Wellbore radius	**0.34994 ft**	**Prod-observer distance**	
Water-Oil Contact		**Gas-Oil Contact**	
Gas-Water Contact		**Rock compressibility**	
Reservoir temperature	**110 deg F**	**Pressure for properties**	**5418 psia**

Port au Port Test #2 - Lower Cape Cormorant

Interpretation results for Page 1

Estimated parameters

Storage, STB/psi	1.761e-2
Skin	-3.788
Permeability, md	16.22
Init pressure, psia	5399

Model

Storage and skin well model
Homogeneous reservoir
Infinite-acting

Port au Port Test #2 - Lower Cape Cormorant

Flow Rate Data - hours, STB/d

0	561.6
1	1197.1
2	1218.2
3	1129.1
4	1040.1
5	1005.4
6	1023.5
7	976.4
7.832999	0

Port au Port Test #2 - Lower Cape Cormorant

Pressure Data - hours, psia

0	5397.184	0.2443999	5415.758	0.4193999	5341.343
1.389999e-2	5396.117	0.2471999	5413.606	0.4221999	5343.845
2.779999e-2	5394.692	0.2499999	5411.508	0.4249999	5345.512
3.609999e-2	5393.655	0.2527999	5408.391	0.4277999	5347.3
4.439999e-2	5392.435	0.2554999	5405.716	0.4304999	5348.876
5.549999e-2	5391.164	0.2582999	5403.688	0.4332999	5349.975
6.389999e-2	5390.029	0.2610999	5400.973	0.4388999	5352.235
7.219999e-2	5388.62	0.2638999	5398.519	0.4415999	5353.782
8.329999e-2	5387.477	0.2665999	5396.304	0.4443999	5355.095
9.159999e-2	5386.334	0.2693999	5394.037	0.4499999	5357.516
0.1165999	5384.662	0.2721999	5392.096	0.4527999	5358.666
0.1221999	5386.02	0.2749999	5390.481	0.4582999	5359.97
0.1249999	5387.486	0.2777999	5388.518	0.4610999	5361.204
0.1277999	5389.361	0.2804999	5386.5009	0.4665999	5363.027
0.1304999	5392.657	0.2832999	5384.615	0.4693999	5364.459
0.1332999	5396.128	0.2860999	5383.065	0.4749999	5366.462
0.1360999	5399.2009	0.2888999	5381.201	0.4777999	5368.029
0.1388999	5401.427	0.2943999	5379.3009	0.4888999	5369.437
0.1415999	5403.761	0.2971999	5377.78	0.4915999	5370.553
0.1443999	5405.11	0.3	5376.005	0.4943999	5372.12
0.1499999	5408.117	0.3027999	5374.042	0.4971999	5374.132
0.1527999	5410.486	0.3054999	5372.365	0.5	5375.247
0.1554999	5412.914	0.3110999	5370.174	0.5027999	5376.568
0.1582999	5415.677	0.3138999	5368.973	0.5082999	5377.804
0.1610999	5417.214	0.3165999	5367.509	0.5221999	5379.115
0.1638999	5418.67	0.3193999	5366.095	0.5332999	5380.415
0.1665999	5421.433	0.3221999	5364.928	0.5499999	5382.075
0.1693999	5425.052	0.3277999	5363.129	0.5638999	5380.623
0.1721999	5427.842	0.3332999	5360.874	0.5665999	5379.31
0.1749999	5429.968	0.3360999	5359.7009	0.5777999	5378.408
0.1777999	5432.806	0.3388999	5358.62	0.5860999	5377.079
0.1804999	5435.155	0.3415999	5357.396	0.5971999	5375.975
0.1832999	5437.8	0.3471999	5355.574	0.6027999	5374.226
0.1860999	5439.8009	0.3499999	5354.484	0.6082999	5372.805
0.1888999	5440.802	0.3554999	5352.408	0.6138999	5371.538
0.1971999	5441.918	0.3610999	5350.381	0.6165999	5370.502
0.2082999	5439.182	0.3665999	5348.465	0.6221999	5368.005
0.2165999	5437.159	0.3721999	5346.53	0.6277999	5366.567
0.2193999	5435.303	0.3777999	5344.717	0.6332999	5365.152
0.2221999	5433.514	0.3832999	5342.878	0.6388999	5363.226
0.2249999	5432.068	0.3860999	5341.804	0.6415999	5361.648
0.2304999	5429.3	0.3915999	5340.051	0.6443999	5360.695
0.2332999	5426.851	0.3971999	5338.331	0.6471999	5359.635
0.2360999	5424.168	0.4	5337.166	0.6499999	5358.671
0.2388999	5421.527	0.4054999	5335.351	0.6554999	5356.63
0.2415999	5418.328	0.4165999	5338.35	0.6582999	5355.493

Port au Port Test #2 - Lower Cape Cormorant

Pressure Data - hours, psia (continued)

0.6610999	5354.544	0.8304999	5287.061	1.011099	5221.218
0.6638999	5353.577	0.8360999	5285.395	1.013899	5219.645
0.6693999	5351.915	0.8388999	5284.414	1.016599	5218.01
0.6721999	5350.764	0.8415999	5283.097	1.019399	5216.256
0.6749999	5349.456	0.8443999	5281.785	1.022199	5215.283
0.6804999	5347.243	0.8499999	5279.987	1.027799	5213.083
0.6860999	5345.444	0.8527999	5278.682	1.030499	5211.646
0.6888999	5344.017	0.8554999	5277.406	1.033299	5210.494
0.6915999	5342.966	0.8582999	5276.448	1.036099	5209.119
0.6971999	5340.928	0.8638999	5274.432	1.038899	5208.104
0.7	5339.881	0.8693999	5272.379	1.044399	5206.528
0.7027999	5338.854	0.8721999	5271.216	1.047199	5205.521
0.7082999	5336.891	0.8749999	5269.628	1.061099	5202.708
0.7110999	5335.923	0.8777999	5268.4009	1.069399	5201.191
0.7138999	5334.069	0.8832999	5265.992	1.074999	5199.98
0.7193999	5332.139	0.8860999	5264.671	1.080499	5198.802
0.7221999	5330.966	0.8888999	5263.467	1.086099	5197.404
0.7277999	5328.679	0.8915999	5262.294	1.091599	5196.425
0.7304999	5327.227	0.8943999	5261.273	1.097199	5195.495
0.7360999	5325.401	0.9	5259.447	1.102799	5194.381
0.7388999	5324.304	0.9054999	5257.32	1.108299	5193.242
0.7415999	5323.112	0.9082999	5256.334	1.116599	5192.146
0.7443999	5321.727	0.9110999	5255.017	1.122199	5190.467
0.7471999	5320.39	0.9165999	5253.538	1.124999	5187.936
0.7499999	5318.982	0.9221999	5251.847	1.127799	5185.125
0.7554999	5317.262	0.9249999	5250.9	1.130499	5182.172
0.7582999	5315.689	0.9277999	5249.818	1.133299	5179.031
0.7610999	5314.666	0.9304999	5248.671	1.136099	5175.809
0.7665999	5312.476	0.9360999	5246.897	1.138899	5172.659
0.7721999	5310.167	0.9415999	5245.357	1.141599	5169.393
0.7749999	5308.716	0.9471999	5243.31	1.144399	5165.746
0.7804999	5306.865	0.9527999	5241.632	1.147199	5162.573
0.7832999	5305.823	0.9582999	5239.811	1.149999	5159.073
0.7860999	5304.337	0.9610999	5238.722	1.152799	5156.081
0.7888999	5303.356	0.9665999	5236.974	1.155499	5153.142
0.7915999	5302.357	0.9693999	5236.001	1.158299	5149.427
0.7943999	5301.265	0.9749999	5234.549	1.161099	5142.748
0.8	5299.004	0.9804999	5233.285	1.163899	5135.115
0.8027999	5297.977	0.9860999	5231.651	1.166599	5127.621
0.8054999	5296.925	0.9888999	5230.467	1.169399	5119.071
0.8082999	5295.768	0.9915999	5229.314	1.172199	5111.47
0.8138999	5293.595	0.9943999	5228.3	1.174999	5104.203
0.8165999	5292.609	0.9971999	5227.037	1.177799	5096.577
0.8193999	5291.601	1	5225.919	1.180499	5089.896
0.8221999	5290.461	1.005499	5223.695	1.183299	5082.785
0.8277999	5288.086	1.008299	5222.586	1.186099	5076.307

Pressure Data - hours, psia (continued)

1.188899	5070.688	1.347199	4944.482	1.658299	4883.025
1.191599	5064.983	1.352799	4943.292	1.661099	4882.009
1.194399	5059.427	1.361099	4942.316	1.666599	4880.342
1.197199	5053.407	1.372199	4941.223	1.672199	4878.615
1.2	5048.061	1.383299	4940.085	1.677799	4877.352
1.202799	5043.464	1.397199	4939.088	1.683299	4876.059
1.205499	5038.805	1.405499	4938.14	1.688899	4874.428
1.208299	5034.179	1.419399	4937.106	1.694399	4873.442
1.211099	5029.332	1.427799	4935.893	1.697199	4872.491
1.213899	5024.569	1.436099	4934.787	1.702799	4871.342
1.216599	5020.295	1.466599	4932.458	1.708299	4870.168
1.219399	5016.691	1.474999	4931.438	1.713899	4868.642
1.222199	5012.725	1.483299	4930.406	1.719399	4867.252
1.224999	5008.903	1.494399	4929.374	1.724999	4866.375
1.227799	5005.833	1.505499	4927.776	1.733299	4865.065
1.230499	5002.942	1.513899	4926.678	1.738899	4863.761
1.233299	4999.662	1.522199	4925.472	1.744399	4862.685
1.236099	4996.316	1.527799	4924.301	1.752799	4861.56
1.238899	4993.99	1.533299	4923.083	1.758299	4860.335
1.241599	4990.883	1.538899	4921.696	1.766599	4859.266
1.244399	4987.666	1.544399	4920.331	1.772199	4858.164
1.247199	4984.873	1.549999	4919.049	1.780499	4856.82
1.249999	4982.932	1.552799	4918.029	1.786099	4855.705
1.252799	4980.488	1.558299	4916.479	1.794399	4854.325
1.255499	4977.664	1.563899	4914.709	1.8	4853.194
1.258299	4975.516	1.566599	4913.672	1.808299	4851.936
1.261099	4973.501	1.572199	4911.845	1.813899	4850.745
1.263899	4971.535	1.577799	4910.133	1.819399	4849.604
1.266599	4969.451	1.583299	4908.47	1.824999	4848.392
1.269399	4967.769	1.588899	4906.665	1.830499	4847.395
1.272199	4966.156	1.591599	4905.639	1.838899	4846.095
1.274999	4964.389	1.597199	4903.791	1.844399	4844.978
1.277799	4963.158	1.6	4902.81	1.849999	4843.829
1.280499	4961.549	1.602799	4901.728	1.855499	4842.78
1.283299	4960.306	1.608299	4899.708	1.861099	4841.571
1.286099	4959.173	1.611099	4898.613	1.866599	4840.616
1.288899	4957.859	1.616599	4896.735	1.872199	4839.523
1.291599	4956.678	1.619399	4895.7009	1.880499	4838.071
1.294399	4955.574	1.622199	4894.554	1.888899	4837.031
1.3	4954.093	1.624999	4893.502	1.897199	4840.989
1.305499	4952.461	1.627799	4892.484	1.9	4838.01
1.308299	4951.447	1.633299	4890.878	1.905499	4836.847
1.313899	4950.429	1.636099	4889.77	1.913899	4835.541
1.319399	4948.881	1.641599	4887.794	1.922199	4834.111
1.327799	4947.284	1.647199	4886.009	1.927799	4832.957
1.336099	4945.819	1.652799	4884.352	1.936099	4831.797

Port au Port Test #2 - Lower Cape Cormorant

Pressure Data - hours, psia (continued)

1.944399	4830.868	2.247199	4778.193	2.8	4736.075
1.952799	4829.68	2.252799	4777.257	2.816599	4734.897
1.958299	4828.365	2.258299	4776.137	2.833299	4734.569
1.963899	4827.345	2.266599	4775.149	2.849999	4734.322
1.972199	4825.973	2.274999	4773.92	2.866599	4734.302
1.977799	4825.016	2.286099	4772.123	2.883299	4734.783
1.986099	4823.776	2.294399	4770.865	2.9	4735.614
1.991599	4822.505	2.302799	4769.795	2.916599	4735.416
2	4821.272	2.311099	4768.597	2.933299	4736.183
2.005499	4820.18	2.322199	4767.544	2.949999	4736.211
2.011099	4819.06	2.330499	4766.395	2.966599	4735.829
2.016599	4817.975	2.338899	4765.356	2.983299	4736.082
2.024999	4816.865	2.344399	4764.424	3	4735.57
2.030499	4815.916	2.355499	4763.293	3.016599	4735.9009
2.036099	4814.913	2.366599	4762.405	3.033299	4735.896
2.041599	4814.035	2.383299	4761.533	3.049999	4735.305
2.047199	4812.962	2.394399	4760.567	3.066599	4735.032
2.052799	4811.991	2.416599	4759.649	3.083299	4735.276
2.061099	4810.32	2.433299	4759.62	3.1	4735.369
2.066599	4809.1009	2.449999	4758.35	3.116599	4734.764
2.072199	4807.624	2.463899	4757.361	3.133299	4734.958
2.080499	4806.21	2.483299	4756.933	3.149999	4734.621
2.086099	4805.089	2.5	4755.985	3.166599	4734.559
2.091599	4804.05	2.516599	4755.529	3.183299	4733.906
2.1	4802.653	2.533299	4755.57	3.2	4733.417
2.105499	4801.66	2.549999	4754.916	3.216599	4731.384
2.113899	4800.607	2.566599	4754.065	3.233299	4731.89
2.119399	4799.495	2.574999	4752.788	3.249999	4731.746
2.127799	4798.494	2.586099	4751.575	3.266599	4728.674
2.136099	4797.501	2.591599	4750.479	3.269399	4726.96
2.144399	4796.217	2.597199	4749.41	3.274999	4728.034
2.152799	4795.276	2.602799	4748.35	3.280499	4726.404
2.158299	4794.383	2.608299	4747.218	3.283299	4724.85
2.166599	4793.276	2.616599	4745.6	3.294399	4723.23
2.174999	4792.143	2.624999	4744.47	3.302799	4721.715
2.180499	4790.995	2.630499	4743.074	3.305499	4719.29
2.186099	4789.919	2.641599	4741.663	3.308299	4717.876
2.194399	4788.566	2.649999	4740.529	3.313899	4720.403
2.2	4787.525	2.661099	4739.405	3.316599	4721.648
2.205499	4786.448	2.672199	4738.271	3.327799	4723.736
2.211099	4785.214	2.7	4738.183	3.330499	4725.309
2.216599	4784.2009	2.716599	4737.88	3.333299	4726.558
2.222199	4783.127	2.733299	4737.381	3.336099	4728.374
2.227799	4782.005	2.749999	4737.472	3.338899	4730.24
2.233299	4780.614	2.766599	4736.924	3.344399	4731.554
2.241599	4779.215	2.783299	4736.8	3.352799	4734.077

Port au Port Test #2 - Lower Cape Cormorant

Pressure Data - hours, psia (continued)

3.355499	4736.447	3.541599	4728.97	3.733299	4823.629
3.358299	4737.594	3.566599	4737.08	3.736099	4827.643
3.361099	4736.177	3.569399	4738.678	3.738899	4832.373
3.363899	4733.877	3.572199	4740.527	3.741599	4835.447
3.366599	4732.681	3.574999	4742.124	3.747199	4833.236
3.369399	4731.588	3.577799	4743.227	3.755499	4834.738
3.372199	4729.611	3.583299	4744.764	3.761099	4832.177
3.380499	4731.502	3.586099	4745.784	3.763899	4834.623
3.383299	4733.614	3.588899	4747.768	3.766599	4837.629
3.386099	4735.987	3.591599	4750.014	3.769399	4841.252
3.391599	4734.941	3.594399	4752.714	3.772199	4843.033
3.394399	4732.449	3.597199	4754.92	3.774999	4841.478
3.402799	4734.478	3.6	4756.495	3.777799	4838.576
3.408299	4733.395	3.602799	4757.574	3.783299	4841.018
3.411099	4730.439	3.605499	4759.467	3.786099	4844.309
3.413899	4727.184	3.608299	4761.454	3.788899	4846.979
3.416599	4725.102	3.611099	4763.532	3.794399	4842.272
3.422199	4726.981	3.613899	4764.776	3.797199	4838.565
3.427799	4723.735	3.616599	4766.484	3.8	4835.67
3.430499	4720.849	3.619399	4768.921	3.805499	4838.601
3.433299	4719.668	3.622199	4771.459	3.808299	4840.576
3.441599	4717.788	3.624999	4773.823	3.811099	4839.308
3.444399	4715.236	3.627799	4775.491	3.813899	4834.661
3.447199	4713.46	3.630499	4776.568	3.816599	4833.56
3.452799	4715.104	3.633299	4779.571	3.822199	4837.473
3.455499	4716.507	3.636099	4782.586	3.824999	4840.015
3.458299	4717.882	3.638899	4784.295	3.827799	4841.961
3.461099	4719.729	3.641599	4785.543	3.830499	4839.93
3.463899	4721.058	3.644399	4787.267	3.833299	4835.687
3.472199	4719.822	3.647199	4789.31	3.836099	4831.171
3.474999	4718.685	3.649999	4791.182	3.838899	4829.585
3.477799	4716.954	3.652799	4792.704	3.844399	4831.3009
3.480499	4714.933	3.658299	4794.346	3.847199	4830.055
3.483299	4713.87	3.663899	4796.921	3.849999	4826.447
3.488899	4715.91	3.666599	4799.041	3.852799	4822.665
3.491599	4719.687	3.672199	4800.324	3.861099	4819.603
3.494399	4722.732	3.683299	4799.07	3.869399	4821.855
3.505499	4721.192	3.686099	4800.185	3.872199	4823.417
3.508299	4719.702	3.691599	4804.943	3.874999	4825.015
3.511099	4718.229	3.694399	4808.524	3.880499	4820.035
3.513899	4716.508	3.697199	4811.896	3.883299	4815.4
3.519399	4719.234	3.702799	4813.021	3.886099	4814.329
3.522199	4722.259	3.708299	4815.0009	3.894399	4810.536
3.524999	4724.111	3.716599	4817.661	3.897199	4805.258
3.536099	4725.63	3.719399	4819.356	3.9	4801.929
3.538899	4727.594	3.722199	4820.77	3.911099	4797.793

Port au Port Test #2 - Lower Cape Cormorant

Pressure Data - hours, psia (continued)

3.913899	4792.353	4.086099	4738.72	4.280499	4768.183
3.916599	4787.795	4.088899	4741.63	4.283299	4765.675
3.919399	4784.919	4.116599	4743.67	4.286099	4766.711
3.922199	4782.232	4.122199	4745.457	4.288899	4769.181
3.927799	4783.607	4.127799	4749.984	4.291599	4772.568
3.933299	4782.571	4.130499	4753.829	4.294399	4775.469
3.936099	4778.613	4.133299	4757.622	4.3	4773.801
3.938899	4773.71	4.136099	4758.929	4.302799	4771.918
3.941599	4770.689	4.144399	4756.745	4.305499	4770.311
3.944399	4764.236	4.147199	4754.795	4.311099	4772.221
3.947199	4762.41	4.152799	4756.674	4.313899	4775.875
3.952799	4765.047	4.155499	4760.313	4.316599	4778.961
3.961099	4763.502	4.158299	4762.934	4.319399	4783.265
3.963899	4761.88	4.166599	4761.41	4.322199	4786.334
3.969399	4763.288	4.177799	4759.76	4.324999	4791.807
3.972199	4761.764	4.180499	4758.319	4.327799	4795.759
3.974999	4758.125	4.183299	4756.595	4.330499	4797.83
3.977799	4754.97	4.186099	4754.088	4.336099	4796.689
3.980499	4752.3009	4.188899	4751.321	4.344399	4798.47
3.983299	4749.757	4.191599	4753.481	4.347199	4801.841
3.986099	4747.858	4.194399	4757.081	4.349999	4806.754
3.994399	4746.133	4.197199	4762.043	4.352799	4811.694
4	4748.049	4.2	4765.85	4.355499	4815.5009
4.005499	4745.141	4.202799	4769.12	4.358299	4817.196
4.008299	4742.679	4.213899	4767.344	4.363899	4814.554
4.011099	4740.47	4.216599	4765.261	4.369399	4812.565
4.013899	4739.194	4.219399	4763.202	4.372199	4810.801
4.016599	4737.938	4.222199	4765.99	4.374999	4809.654
4.019399	4736.263	4.224999	4769.742	4.380499	4810.773
4.022199	4734.473	4.227799	4773.424	4.383299	4813.368
4.024999	4736.625	4.230499	4774.506	4.388899	4817.756
4.027799	4739.4	4.233299	4772.824	4.391599	4819.5009
4.030499	4741.749	4.236099	4771.072	4.394399	4820.9009
4.038899	4743.686	4.238899	4769.075	4.405499	4818.466
4.041599	4746.965	4.244399	4771.322	4.408299	4816.69
4.044399	4748.011	4.247199	4773.156	4.411099	4818.441
4.049999	4746.691	4.252799	4770.915	4.413899	4821.578
4.052799	4745.136	4.255499	4769.139	4.416599	4826.219
4.055499	4743.231	4.258299	4766.275	4.419399	4830.227
4.058299	4740.986	4.261099	4763.671	4.422199	4834.293
4.061099	4738.395	4.263899	4760.716	4.424999	4835.432
4.069399	4740.065	4.266599	4762.742	4.430499	4831.655
4.074999	4738.627	4.269399	4765.622	4.433299	4830.242
4.077799	4736.714	4.272199	4769.755	4.436099	4828.736
4.080499	4734.964	4.274999	4770.842	4.444399	4833.427
4.083299	4736.441	4.277799	4769.778	4.447199	4837.544

Port au Port Test #2 - Lower Cape Cormorant

Pressure Data - hours, psia (continued)

4.449999	4840.801	4.633299	4830.678	4.863899	4824.832
4.455499	4839.721	4.636099	4828.616	4.866599	4828.508
4.458299	4836.321	4.638899	4830.088	4.869399	4832.581
4.461099	4834.279	4.641599	4831.942	4.872199	4835.497
4.463899	4832.0009	4.644399	4834.24	4.877799	4833.792
4.469399	4834.03	4.652799	4831.797	4.880499	4830.552
4.472199	4836.303	4.658299	4832.903	4.883299	4828.893
4.477799	4834.912	4.666599	4834.1	4.886099	4826.668
4.480499	4830.901	4.669399	4835.645	4.888899	4824.82
4.483299	4827.113	4.672199	4837.001	4.891599	4822.194
4.486099	4823.68	4.680499	4835.919	4.897199	4823.493
4.494399	4826.903	4.683299	4834.059	4.9	4826.709
4.497199	4830.843	4.686099	4832.284	4.902799	4830.164
4.5	4834.704	4.697199	4830.952	4.905499	4833.571
4.502799	4835.784	4.7	4829.09	4.908299	4834.77
4.505499	4834.516	4.702799	4827.396	4.911099	4833.533
4.508299	4831.192	4.708299	4828.895	4.913899	4831.164
4.513899	4832.511	4.713899	4832.253	4.922199	4834.011
4.516599	4835.841	4.716599	4834.305	4.924999	4835.288
4.519399	4839.413	4.722199	4830.771	4.930499	4832.627
4.522199	4840.628	4.724999	4827.86	4.933299	4830.559
4.527799	4836.147	4.727799	4826.423	4.936099	4829.454
4.530499	4832.409	4.733299	4827.667	4.944399	4830.983
4.533299	4829.552	4.738899	4828.904	4.947199	4832.061
4.536099	4826.26	4.744399	4830.302	4.952799	4830.609
4.544399	4828.661	4.747199	4832.316	4.955499	4829.368
4.547199	4832.177	4.752799	4830.556	4.961099	4831.016
4.549999	4836.008	4.755499	4827.029	4.963899	4834.007
4.552799	4838.042	4.758299	4824.394	4.966599	4837.31
4.558299	4834.573	4.761099	4822.723	4.969399	4838.761
4.561099	4830.731	4.774999	4820.045	4.972199	4837.665
4.566599	4832.2009	4.783299	4823.84	4.974999	4834.614
4.569399	4833.224	4.791599	4820.176	4.986099	4836.413
4.574999	4830.996	4.794399	4816.585	4.991599	4837.426
4.586099	4832.417	4.797199	4814.859	4.997199	4840.996
4.588899	4835.218	4.802799	4818.512	5	4843.143
4.591599	4836.401	4.805499	4821.241	5.005499	4839.92
4.594399	4837.49	4.811099	4822.41	5.013899	4844.444
4.6	4839.683	4.833299	4823.545	5.016599	4846.645
4.605499	4837.933	4.836099	4824.626	5.022199	4843.832
4.608299	4834.245	4.838899	4825.858	5.024999	4840.62
4.611099	4830.253	4.844399	4823.693	5.030499	4843.053
4.613899	4826.558	4.847199	4821.072	5.038899	4840.179
4.622199	4828.586	4.849999	4819.981	5.044399	4842.281
4.624999	4831.681	4.855499	4821.611	5.047199	4844.294
4.627799	4833.249	4.861099	4823.027	5.049999	4846.43

Port au Port Test #2 - Lower Cape Cormorant

Pressure Data - hours, psia (continued)

5.052799	4848.583	5.233299	4848.406	5.5	4845.449
5.055499	4852.392	5.244399	4847.314	5.516599	4848.993
5.058299	4853.512	5.247199	4848.76	5.519399	4847.147
5.061099	4851.865	5.252799	4850.715	5.524999	4845.476
5.063899	4848.439	5.258299	4852.692	5.527799	4847.51
5.066599	4844.636	5.263899	4850.008	5.530499	4848.747
5.074999	4846.058	5.266599	4847.896	5.533299	4851.042
5.080499	4848.184	5.272199	4849.049	5.549999	4850.129
5.083299	4849.958	5.274999	4851.978	5.566599	4850.933
5.086099	4851.941	5.277799	4854.258	5.583299	4853.568
5.091599	4848.667	5.280499	4856.514	5.591599	4856.136
5.094399	4845.035	5.283299	4858.2	5.597199	4858.249
5.097199	4843.521	5.288899	4854.843	5.602799	4857.09
5.1	4842.437	5.291599	4853	5.605499	4855.589
5.102799	4843.446	5.297199	4855.877	5.608299	4854.244
5.105499	4845.497	5.3	4858.171	5.611099	4853.131
5.113899	4842.343	5.305499	4856.831	5.616599	4854.527
5.119399	4844.805	5.308299	4853.488	5.619399	4857.346
5.122199	4846.023	5.311099	4852.172	5.622199	4859.234
5.127799	4843.273	5.316599	4853.263	5.624999	4861.255
5.130499	4839.523	5.319399	4854.889	5.630499	4860.225
5.136099	4841.119	5.324999	4856.006	5.633299	4858.726
5.138899	4843.965	5.330499	4857.459	5.641599	4859.957
5.141599	4845.431	5.333299	4858.649	5.647199	4861.51
5.147199	4843.622	5.338899	4861.162	5.649999	4863.675
5.149999	4842.496	5.347199	4856.868	5.652799	4867.048
5.152799	4840.736	5.349999	4855.823	5.655499	4868.325
5.161099	4842.666	5.358299	4857.206	5.661099	4864.548
5.163899	4844.344	5.363899	4858.36	5.683299	4868.195
5.166599	4848.037	5.369399	4856.148	5.691599	4866.806
5.169399	4852.076	5.372199	4853.919	5.705499	4869.612
5.172199	4853.134	5.380499	4857.553	5.708299	4872.804
5.177799	4849.405	5.388899	4853.967	5.711099	4874.349
5.180499	4846.961	5.391599	4852.558	5.713899	4875.783
5.183299	4844.553	5.397199	4851.416	5.722199	4873.95
5.186099	4841.794	5.4	4853.038	5.724999	4871.72
5.191599	4843.396	5.408299	4851.696	5.730499	4873.121
5.2	4840.897	5.411099	4850.462	5.733299	4876.426
5.202799	4839.251	5.419399	4851.482	5.736099	4878.7009
5.205499	4840.774	5.422199	4853.513	5.741599	4876.155
5.208299	4843.443	5.427799	4851.832	5.744399	4874.227
5.211099	4844.827	5.430499	4848.604	5.752799	4872.043
5.216599	4842.364	5.433299	4846.528	5.761099	4875.229
5.224999	4844.713	5.436099	4844.613	5.763899	4878.69
5.227799	4845.952	5.466599	4845.496	5.766599	4880.285
5.230499	4847.281	5.483299	4844.596	5.772199	4875.857

Port au Port Test #2 - Lower Cape Cormorant

Pressure Data - hours, psia (continued)

5.774999	4872.559	6.005499	4865.776	6.302799	4862.517
5.777799	4870.592	6.011099	4866.857	6.311099	4860.994
5.780499	4871.866	6.013899	4868.833	6.313899	4859.724
5.786099	4875.304	6.019399	4869.92	6.316599	4860.81
5.788899	4876.425	6.024999	4873.054	6.327799	4859.677
5.8	4877.58	6.030499	4871.189	6.330499	4858.084
5.805499	4874.892	6.033299	4869.26	6.336099	4857.045
5.808299	4872.866	6.044399	4870.342	6.341599	4855.045
5.816599	4874.538	6.055499	4868.719	6.344399	4857.11
5.819399	4876.025	6.061099	4871.387	6.349999	4859.35
5.822199	4877.419	6.069399	4869.969	6.361099	4860.893
5.830499	4874.776	6.077799	4871.813	6.363899	4859.117
5.833299	4873.126	6.086099	4869.81	6.366599	4855.421
5.836099	4871.941	6.088899	4868.307	6.369399	4850.14
5.841599	4874.838	6.094399	4869.61	6.372199	4847.727
5.844399	4877.249	6.1	4870.9009	6.377799	4849.446
5.849999	4875.095	6.105499	4873.505	6.380499	4852.109
5.852799	4873.284	6.113899	4871.066	6.386099	4854.532
5.863899	4871.901	6.116599	4868.904	6.388899	4853.069
5.866599	4869.46	6.119399	4867.438	6.391599	4851.463
5.872199	4870.634	6.124999	4869.81	6.394399	4850.087
5.874999	4873.491	6.130499	4870.849	6.4	4852.42
5.877799	4874.632	6.138899	4869.682	6.405499	4853.458
5.880499	4873.067	6.141599	4868.644	6.413899	4851.766
5.886099	4871.161	6.149999	4871.2	6.419399	4850.111
5.891599	4868.351	6.163899	4872.547	6.424999	4848.706
5.897199	4865.814	6.166599	4871.436	6.427799	4849.88
5.902799	4867.368	6.169399	4869.58	6.430499	4848.328
5.905499	4869.504	6.172199	4867.883	6.436099	4846.178
5.908299	4872.726	6.180499	4870.753	6.438899	4847.32
5.913899	4871.313	6.183299	4871.887	6.447199	4845.788
5.916599	4867.874	6.186099	4874.194	6.466599	4846.11
5.919399	4864.285	6.191599	4872.148	6.483299	4841.559
5.927799	4867.578	6.194399	4868.893	6.491599	4840.133
5.930499	4869.549	6.208299	4866.5	6.502799	4837.576
5.938899	4868.437	6.213899	4868.812	6.505499	4836.574
5.941599	4866.978	6.216599	4869.986	6.513899	4835.265
5.944399	4865.847	6.219399	4872.206	6.519399	4833.486
5.966599	4868.201	6.224999	4870.718	6.530499	4832.289
5.969399	4869.906	6.227799	4867.97	6.536099	4833.568
5.974999	4867.616	6.230499	4866.515	6.538899	4832.411
5.977799	4864.733	6.249999	4864.945	6.541599	4830.019
5.983299	4866.804	6.255499	4863.77	6.544399	4826.552
5.991599	4867.954	6.283299	4858.84	6.552799	4824.584
5.994399	4869.522	6.291599	4861.664	6.555499	4822.552
6.002799	4866.933	6.3	4860.372	6.558299	4821.379

Pressure Data - hours, psia (continued)

6.563899	4823.373	6.802799	4845.21	7.002799	4865.949
6.569399	4820.554	6.808299	4844.009	7.008299	4863.244
6.572199	4818.925	6.811099	4845.575	7.016599	4865.762
6.586099	4816.413	6.816599	4846.815	7.019399	4868.718
6.591599	4817.454	6.822199	4850.261	7.022199	4871.047
6.594399	4818.766	6.824999	4852.031	7.024999	4872.418
6.6	4815.916	6.836099	4854.548	7.027799	4871.333
6.602799	4814.713	6.838899	4856.358	7.030499	4867.878
6.605499	4813.074	6.844399	4855.074	7.033299	4863.617
6.611099	4815.192	6.847199	4853.531	7.041599	4865.673
6.616599	4813.215	6.852799	4855.52	7.044399	4868.466
6.619399	4811.958	6.855499	4859.07	7.049999	4866.979
6.622199	4810.817	6.863899	4855.838	7.052799	4862.947
6.627799	4812.426	6.866599	4853.5009	7.055499	4857.59
6.633299	4816.232	6.869399	4854.56	7.061099	4858.751
6.641599	4813.936	6.872199	4857.61	7.063899	4861.746
6.647199	4817.567	6.874999	4861.04	7.066599	4863.977
6.649999	4819.311	6.877799	4864.63	7.069399	4865.633
6.655499	4817.624	6.880499	4865.881	7.072199	4866.865
6.658299	4814.84	6.888899	4866.95	7.077799	4868.137
6.666599	4817.9009	6.897199	4862.918	7.083299	4863.968
6.669399	4819.628	6.9	4859.483	7.086099	4859.175
6.677799	4820.671	6.905499	4860.948	7.088899	4856.837
6.683299	4824.033	6.908299	4863.637	7.094399	4858.051
6.691599	4821.409	6.911099	4866.613	7.097199	4860.756
6.697199	4822.478	6.913899	4868.3009	7.1	4861.794
6.705499	4820.114	6.919399	4865.324	7.102799	4863.445
6.711099	4821.892	6.922199	4862.705	7.108299	4865.591
6.713899	4823.749	6.924999	4861.301	7.116599	4864.002
6.719399	4825.0009	6.930499	4863.472	7.119399	4860.017
6.724999	4827.24	6.933299	4865.452	7.122199	4855.196
6.736099	4828.704	6.936099	4867.578	7.124999	4854.111
6.738899	4831.522	6.941599	4866.247	7.130499	4856.788
6.741599	4834.444	6.947199	4868.314	7.133299	4859.326
6.749999	4831.475	6.949999	4870.909	7.147199	4861.327
6.755499	4833.359	6.955499	4869.844	7.161099	4857.739
6.758299	4837.115	6.958299	4866.253	7.169399	4859.317
6.761099	4839.818	6.961099	4862.624	7.183299	4860.963
6.769399	4836.609	6.966599	4864.911	7.186099	4859.261
6.772199	4834.697	6.969399	4868.093	7.191599	4857.419
6.774999	4833.558	6.972199	4869.543	7.194399	4859.626
6.786099	4835.385	6.977799	4866.517	7.202799	4857.576
6.788899	4837.71	6.983299	4865.5009	7.205499	4853.293
6.791599	4840.82	6.986099	4867.272	7.208299	4849.801
6.794399	4844.86	6.991599	4866.03	7.213899	4850.913
6.797199	4846.597	6.994399	4863.149	7.216599	4853.567

Port au Port Test #2 - Lower Cape Cormorant

Pressure Data - hours, psia (continued)

7.222199	4855.739	7.688899	4829.982	7.849999	4937.637
7.233299	4856.973	7.694399	4831.516	7.852799	4942.536
7.241599	4858.008	7.697199	4834.027	7.855499	4947.093
7.244399	4859.189	7.7	4835.922	7.858299	4951.161
7.249999	4858.043	7.708299	4834.054	7.861099	4955.115
7.261099	4856.878	7.711099	4831.315	7.863899	4958.862
7.266599	4858.259	7.713899	4828.54	7.866599	4963.162
7.274999	4856.683	7.719399	4830.82	7.869399	4967.38
7.280499	4858.005	7.722199	4832.71	7.872199	4971.907
7.283299	4859.283	7.724999	4834.76	7.874999	4976.486
7.3	4858.464	7.727799	4836.576	7.877799	4980.653
7.316599	4858.467	7.733299	4833.578	7.880499	4985.015
7.333299	4858.077	7.736099	4830.244	7.883299	4989.278
7.349999	4858.221	7.738899	4828.407	7.886099	4993.214
7.366599	4858.314	7.744399	4827.415	7.888899	4997.272
7.383299	4857.125	7.747199	4826.118	7.891599	5001.338
7.386099	4855.636	7.752799	4828.166	7.894399	5005.488
7.394399	4856.988	7.758299	4827.083	7.897199	5009.442
7.4	4854.337	7.761099	4823.945	7.9	5013.269
7.411099	4852.711	7.763899	4820.014	7.902799	5017.294
7.424999	4851.376	7.766599	4818.859	7.905499	5020.97
7.433299	4849.004	7.769399	4820.318	7.908299	5025.113
7.436099	4847.328	7.772199	4821.337	7.911099	5028.831
7.441599	4848.461	7.774999	4822.889	7.913899	5032.558
7.452799	4846.12	7.777799	4824.428	7.916599	5036.114
7.463899	4848.36	7.780499	4827.103	7.919399	5039.836
7.466599	4846.782	7.786099	4825.627	7.922199	5043.672
7.469399	4845.422	7.788899	4824.23	7.924999	5047.191
7.480499	4844.175	7.8	4823.06	7.927799	5050.661
7.483299	4841.626	7.802799	4820.447	7.930499	5054.231
7.491599	4843.288	7.805499	4824.403	7.933299	5057.911
7.502799	4840.979	7.808299	4831.511	7.936099	5061.543
7.513899	4839.653	7.811099	4839.615	7.938899	5065.12
7.516599	4838.096	7.813899	4848.129	7.941599	5068.623
7.527799	4840.012	7.816599	4856.639	7.944399	5071.977
7.549999	4839.908	7.819399	4865.085	7.947199	5075.28
7.566599	4839.579	7.822199	4873.257	7.949999	5078.671
7.583299	4839.435	7.824999	4881.023	7.952799	5081.995
7.6	4839.997	7.827799	4888.638	7.955499	5085.408
7.616599	4838.916	7.830499	4895.801	7.958299	5088.701
7.624999	4837.774	7.833299	4902.821	7.961099	5091.865
7.627799	4838.95	7.836099	4909.272	7.963899	5095.076
7.636099	4837.755	7.838899	4915.693	7.966599	5098.287
7.666599	4837.419	7.841599	4921.728	7.969399	5101.482
7.683299	4835.922	7.844399	4927.3	7.972199	5104.488
7.686099	4832.842	7.847199	4932.797	7.974999	5107.519

Pressure Data - hours, psia (continued)

7.977799	5110.518	8.105499	5205.842	8.649999	5254.303
7.980499	5113.406	8.108299	5206.948	8.666599	5254.973
7.983299	5116.364	8.111099	5208.081	8.683299	5255.434
7.986099	5119.094	8.113899	5209.266	8.7	5255.992
7.988899	5121.963	8.116599	5210.393	8.716599	5256.686
7.991599	5124.926	8.119399	5211.489	8.733299	5257.744
7.994399	5127.649	8.122199	5212.605	8.749999	5258.624
7.997199	5130.455	8.127799	5214.419	8.766599	5260.13
8	5133	8.133299	5216.228	8.777799	5261.1009
8.002799	5135.626	8.138899	5218.035	8.791599	5262.226
8.005499	5138.205	8.144399	5219.762	8.816599	5262.907
8.008299	5140.704	8.149999	5221.432	8.833299	5262.913
8.011099	5143.266	8.155499	5223.083	8.849999	5262.816
8.013899	5145.81	8.161099	5224.482	8.866599	5262.66
8.016599	5148.197	8.166599	5225.755	8.883299	5262.736
8.019399	5150.569	8.172199	5226.967	8.9	5262.934
8.022199	5152.911	8.180499	5228.469	8.916599	5263.259
8.024999	5155.232	8.188899	5229.857	8.933299	5263.77
8.027799	5157.453	8.197199	5231.115	8.949999	5263.965
8.030499	5159.457	8.205499	5232.23	8.966599	5264.357
8.033299	5161.712	8.213899	5233.231	8.983299	5265.195
8.036099	5163.908	8.224999	5234.294	9	5266.102
8.038899	5166.255	8.238899	5235.361	9.011099	5267.008
8.041599	5168.326	8.252799	5236.314	9.024999	5267.948
8.044399	5170.403	8.283299	5238.261	9.033299	5268.882
8.047199	5172.326	8.3	5239.059	9.049999	5269.587
8.049999	5174.136	8.316599	5240	9.066599	5269.165
8.052799	5176.078	8.333299	5240.481	9.083299	5269.368
8.055499	5177.967	8.349999	5241.541	9.1	5270.018
8.058299	5179.74	8.366599	5242.136	9.116599	5270.448
8.061099	5181.495	8.383299	5243.108	9.133299	5270.541
8.063899	5183.322	8.4	5243.649	9.149999	5270.63
8.066599	5185.172	8.416599	5244.425	9.166599	5271.026
8.069399	5186.84	8.433299	5245.204	9.183299	5271.294
8.072199	5188.439	8.449999	5245.92	9.2	5271.978
8.074999	5190.082	8.466599	5246.697	9.216599	5272.921
8.077799	5191.617	8.483299	5247.488	9.233299	5273.291
8.080499	5193.176	8.5	5248.155	9.249999	5273.686
8.083299	5194.664	8.516599	5248.886	9.266599	5273.777
8.086099	5196.139	8.533299	5249.87	9.283299	5273.914
8.088899	5197.6009	8.549999	5250.34	9.3	5274.261
8.091599	5199.041	8.566599	5251.082	9.316599	5274.643
8.094399	5200.347	8.583299	5251.797	9.333299	5274.885
8.097199	5201.63	8.6	5252.4009	9.349999	5275.496
8.1	5202.972	8.616599	5252.811	9.366599	5275.984
8.102799	5204.44	8.633299	5253.547	9.383299	5276.409

Port au Port Test #2 - Lower Cape Cormorant

Pressure Data - hours, psia (continued)

9.4	5277.061	10.14999	5293.962	10.91659	5307.711
9.416599	5277.611	10.16659	5294.32	10.93329	5308.115
9.433299	5278.176	10.18329	5294.662	10.94999	5308.364
9.449999	5278.574	10.2	5294.933	10.96659	5308.679
9.466599	5279.129	10.21659	5295.338	10.98329	5308.852
9.483299	5279.629	10.23329	5295.711	11	5309.003
9.5	5279.749	10.24999	5296.105	11.01659	5309.245
9.516599	5280.126	10.26659	5296.3009	11.03329	5309.431
9.533299	5280.861	10.28329	5296.67	11.04999	5309.782
9.549999	5284.086	10.3	5297.87	11.06659	5309.963
9.552799	5282.017	10.31659	5298.096	11.08329	5310.222
9.555499	5283.929	10.33329	5298.505	11.1	5310.469
9.583299	5283.264	10.34999	5298.767	11.11659	5310.577
9.6	5283.28	10.36659	5299.016	11.13329	5310.793
9.616599	5283.554	10.38329	5299.303	11.14999	5311.101
9.633299	5283.6	10.4	5299.586	11.16659	5311.373
9.649999	5283.501	10.41659	5300.068	11.18329	5311.604
9.666599	5283.53	10.43329	5300.342	11.2	5311.715
9.683299	5283.705	10.44999	5300.5009	11.21659	5312.065
9.7	5283.902	10.46659	5300.751	11.23329	5312.214
9.716599	5284.196	10.48329	5300.858	11.24999	5312.462
9.733299	5284.552	10.5	5301.069	11.26659	5312.634
9.749999	5284.69	10.51659	5301.272	11.28329	5313.049
9.766599	5285.169	10.53329	5301.5009	11.3	5313.236
9.783299	5285.537	10.54999	5301.8009	11.31659	5313.42
9.8	5285.82	10.56659	5302.208	11.33329	5313.541
9.816599	5286.11	10.58329	5302.469	11.34999	5313.697
9.833299	5286.506	10.6	5302.693	11.36659	5313.881
9.849999	5286.82	10.61659	5302.931	11.38329	5314.238
9.866599	5287.032	10.63329	5303.23	11.4	5314.416
9.883299	5287.582	10.64999	5303.504	11.41659	5314.4009
9.9	5288.174	10.66659	5303.79	11.43329	5314.637
9.916599	5288.642	10.68329	5304.147	11.44999	5314.801
9.933299	5289.07	10.7	5304.522	11.46659	5314.957
9.949999	5289.291	10.71659	5304.726	11.48329	5315.207
9.966599	5289.571	10.73329	5305.022	11.5	5315.474
9.983299	5289.976	10.74999	5305.259	11.51659	5315.491
10	5290.353	10.76659	5305.45	11.53329	5315.594
10.01659	5290.729	10.78329	5305.649	11.54999	5315.734
10.03329	5291.1009	10.8	5305.916	11.56659	5315.908
10.04999	5291.471	10.81659	5306.294	11.58329	5315.928
10.06659	5291.911	10.83329	5306.512	11.6	5316.209
10.08329	5292.369	10.84999	5306.651	11.61659	5316.427
10.1	5292.709	10.86659	5306.921	11.63329	5316.573
10.11659	5293.234	10.88329	5307.196	11.64999	5316.6009
10.13329	5293.697	10.9	5307.481	11.66659	5316.863

Pressure Data - hours, psia (continued)

11.68329	5316.879	12.44999	5327.277	13.21659	5335.166
11.7	5317.056	12.46659	5327.507	13.23329	5335.347
11.71659	5317.216	12.48329	5327.746	13.24999	5335.478
11.73329	5317.272	12.5	5327.902	13.26659	5335.658
11.74999	5317.336	12.51659	5328.033	13.28329	5335.833
11.76659	5317.519	12.53329	5328.242	13.3	5335.957
11.78329	5317.683	12.54999	5328.384	13.31659	5336.088
11.8	5317.88	12.56659	5328.593	13.33329	5336.266
11.81659	5318.168	12.58329	5328.747	13.34999	5336.459
11.83329	5318.332	12.6	5328.931	13.36659	5336.66
11.84999	5318.505	12.61659	5329.1	13.38329	5336.768
11.86659	5318.83	12.63329	5329.277	13.4	5336.892
11.88329	5318.961	12.64999	5329.505	13.41659	5337.033
11.9	5319.268	12.66659	5329.675	13.43329	5337.24
11.91659	5319.504	12.68329	5329.842	13.44999	5337.324
11.93329	5319.692	12.7	5330.037	13.46659	5337.476
11.94999	5319.906	12.71659	5330.234	13.48329	5337.672
11.96659	5320.092	12.73329	5330.393	13.5	5337.809
11.98329	5320.367	12.74999	5330.621	13.51659	5338.033
12	5320.641	12.76659	5330.784	13.53329	5338.163
12.01659	5320.891	12.78329	5330.96	13.54999	5338.322
12.03329	5321.02	12.8	5331.086	13.56659	5338.469
12.04999	5321.265	12.81659	5331.252	13.58329	5338.616
12.06659	5321.526	12.83329	5331.448	13.6	5338.717
12.08329	5321.727	12.84999	5331.643	13.61659	5338.849
12.1	5322.06	12.86659	5331.822	13.63329	5339.021
12.11659	5322.252	12.88329	5331.982	13.64999	5339.096
12.13329	5322.519	12.9	5332.165	13.66659	5339.276
12.14999	5322.801	12.91659	5332.363	13.68329	5339.395
12.16659	5323.041	12.93329	5332.563	13.7	5339.511
12.18329	5323.26	12.94999	5332.637	13.71659	5339.605
12.2	5323.524	12.96659	5332.843	13.73329	5339.757
12.21659	5323.775	12.98329	5333.005	13.74999	5339.853
12.23329	5324.055	13	5333.166	13.76659	5340.018
12.24999	5324.361	13.01659	5333.352	13.78329	5340.124
12.26659	5324.571	13.03329	5333.502	13.8	5340.269
12.28329	5324.878	13.04999	5333.659	13.81659	5340.404
12.3	5325.156	13.06659	5333.806	13.83329	5340.525
12.31659	5325.436	13.08329	5333.993	13.84999	5340.652
12.33329	5325.688	13.1	5334.111	13.86659	5340.812
12.34999	5325.894	13.11659	5334.283	13.88329	5340.991
12.36659	5326.139	13.13329	5334.386	13.9	5341.097
12.38329	5326.37	13.14999	5334.541	13.91659	5341.247
12.4	5326.602	13.16659	5334.738	13.93329	5341.363
12.41659	5326.828	13.18329	5334.847	13.94999	5341.575
12.43329	5327.055	13.2	5335.032	13.96659	5341.709

Port au Port Test #2 - Lower Cape Cormorant

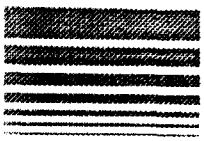
Pressure Data - hours, psia (continued)

13.98329	5341.818	14.74999	5347.564	15.51659	5352.17
14	5341.916	14.76659	5347.66	15.53329	5352.227
14.01659	5342.074	14.78329	5347.773	15.54999	5352.353
14.03329	5342.187	14.8	5347.867	15.56659	5352.425
14.04999	5342.368	14.81659	5347.968	15.58329	5352.6
14.06659	5342.47	14.83329	5348.086	15.6	5352.721
14.08329	5342.591	14.84999	5348.181	15.61659	5352.808
14.1	5342.739	14.86659	5348.284	15.63329	5352.868
14.11659	5342.842	14.88329	5348.436	15.64999	5353.016
14.13329	5343.026	14.9	5348.574	15.66659	5353.109
14.14999	5343.133	14.91659	5348.659	15.68329	5353.228
14.16659	5343.277	14.93329	5348.826	15.7	5353.3
14.18329	5343.429	14.94999	5348.901	15.71659	5353.373
14.2	5343.525	14.96659	5349.0009	15.73329	5353.436
14.21659	5343.652	14.98329	5349.153	15.74999	5353.609
14.23329	5343.8009	15	5349.248	15.76659	5353.692
14.24999	5343.903	15.01659	5349.333	15.78329	5353.749
14.26659	5344.052	15.03329	5349.429	15.8	5353.8009
14.28329	5344.178	15.04999	5349.513	15.81659	5353.947
14.3	5344.287	15.06659	5349.643	15.83329	5354.028
14.31659	5344.364	15.08329	5349.755	15.84999	5354.11
14.33329	5344.487	15.1	5349.797	15.86659	5354.219
14.34999	5344.624	15.11659	5349.935	15.88329	5354.374
14.36659	5344.722	15.13329	5349.991	15.9	5354.462
14.38329	5344.897	15.14999	5350.157	15.91659	5354.528
14.4	5345.003	15.16659	5350.225	15.93329	5354.592
14.41659	5345.129	15.18329	5350.269	15.94999	5354.66
14.43329	5345.253	15.2	5350.397	15.96659	5354.784
14.44999	5345.363	15.21659	5350.48	15.98329	5354.884
14.46659	5345.493	15.23329	5350.545	16	5354.951
14.48329	5345.606	15.24999	5350.646	16.01659	5355.019
14.5	5345.715	15.26659	5350.734	16.03329	5355.126
14.51659	5345.815	15.28329	5350.785	16.04999	5355.204
14.53329	5345.967	15.3	5350.853	16.06659	5355.301
14.54999	5346.109	15.31659	5350.945	16.08329	5355.443
14.56659	5346.181	15.33329	5351.025	16.1	5355.429
14.58329	5346.287	15.34999	5351.102	16.11659	5355.566
14.6	5346.464	15.36659	5351.215	16.13329	5355.665
14.61659	5346.567	15.38329	5351.272	16.14999	5355.752
14.63329	5346.701	15.4	5351.403	16.16659	5355.852
14.64999	5346.851	15.41659	5351.511	16.18329	5355.905
14.66659	5346.924	15.43329	5351.627	16.2	5356.008
14.68329	5347.036	15.44999	5351.742	16.21659	5356.12
14.7	5347.23	15.46659	5351.848	16.23329	5356.187
14.71659	5347.3009	15.48329	5351.965	16.24999	5356.278
14.73329	5347.433	15.5	5352.06	16.26659	5356.351

Pressure Data - hours, psia (continued)

16.28329	5356.426	17.04999	5360.394	17.81659	5363.623
16.3	5356.515	17.06659	5360.417	17.83329	5363.691
16.31659	5356.642	17.08329	5360.509	17.84999	5363.784
16.33329	5356.7009	17.1	5360.573	17.86659	5363.847
16.34999	5356.766	17.11659	5360.624	17.88329	5363.848
16.36659	5356.902	17.13329	5360.727	17.9	5363.949
16.38329	5356.97	17.14999	5360.782	17.91659	5363.989
16.4	5357.131	17.16659	5360.842	17.93329	5364.061
16.41659	5357.189	17.18329	5360.983	17.94999	5364.159
16.43329	5357.238	17.2	5361.013	17.96659	5364.253
16.44999	5357.351	17.21659	5361.089	17.98329	5364.3009
16.46659	5357.456	17.23329	5361.119	18	5364.347
16.48329	5357.515	17.24999	5361.203	18.01659	5364.423
16.5	5357.596	17.26659	5361.224	18.03329	5364.515
16.51659	5357.707	17.28329	5361.312	18.04999	5364.62
16.53329	5357.842	17.3	5361.391	18.06659	5364.649
16.54999	5357.9	17.31659	5361.405	18.08329	5364.68
16.56659	5358.006	17.33329	5361.509	18.1	5364.782
16.58329	5358.064	17.34999	5361.578	18.11659	5364.868
16.6	5358.145	17.36659	5361.627	18.13329	5364.93
16.61659	5358.231	17.38329	5361.737	18.14999	5365.01
16.63329	5358.3009	17.4	5361.793	18.16659	5365.02
16.64999	5358.367	17.41659	5361.839	18.18329	5365.168
16.66659	5358.459	17.43329	5361.931	18.2	5365.218
16.68329	5358.524	17.44999	5362.065	18.21659	5365.249
16.7	5358.647	17.46659	5362.103	18.23329	5365.354
16.71659	5358.709	17.48329	5362.151	18.24999	5365.383
16.73329	5358.793	17.5	5362.231	18.26659	5365.456
16.74999	5358.84	17.51659	5362.354	18.28329	5365.49
16.76659	5358.961	17.53329	5362.338	18.3	5365.574
16.78329	5359.022	17.54999	5362.431	18.31659	5365.667
16.8	5359.129	17.56659	5362.545	18.33329	5365.718
16.81659	5359.235	17.58329	5362.628	18.34999	5365.8009
16.83329	5359.36	17.6	5362.7	18.36659	5365.843
16.84999	5359.414	17.61659	5362.729	18.38329	5365.882
16.86659	5359.5009	17.63329	5362.803	18.4	5365.915
16.88329	5359.584	17.64999	5362.881	18.41659	5365.921
16.9	5359.6				

17.66659	5362.947	18.43329	5366.074



16.91659	5359.743	17.68329	5363.024	18.44999	5366.141
16.93329	5359.829	17.7	5363.095	18.46659	5366.139
16.94999	5359.919	17.71659	5363.209	18.48329	5366.246
16.96659	5359.984	17.73329	5363.254	18.5	5366.282
16.98329	5360.056	17.74999	5363.302	18.51659	5366.336
17	5360.127	17.76659	5363.391	18.53329	5366.371
17.01659	5360.186	17.78329	5363.455	18.54999	5366.446
17.03329	5360.257	17.8	5363.546	18.56659	5366.521

Port au Port Test #2 - Lower Cape Cormorant

Pressure Data - hours, psia (continued)

18.58329	5366.568	19.34999	5369.253	20.11659	5371.357
18.6	5366.643	19.36659	5369.334	20.13329	5371.519
18.61659	5366.727	19.38329	5369.436	20.14999	5371.561
18.63329	5366.775	19.4	5369.445	20.16659	5371.59
18.64999	5366.815	19.41659	5369.483	20.18329	5371.634
18.66659	5366.869	19.43329	5369.497	20.2	5371.7009
18.68329	5366.959	19.44999	5369.565	20.21659	5371.721
18.7	5367.052	19.46659	5369.608	20.23329	5371.78
18.71659	5367.101	19.48329	5369.649	20.24999	5371.84
18.73329	5367.189	19.5	5369.738	20.26659	5371.876
18.74999	5367.167	19.51659	5369.773	20.28329	5371.89
18.76659	5367.263	19.53329	5369.816	20.3	5372
18.78329	5367.307	19.54999	5369.883	20.31659	5372.02
18.8	5367.364	19.56659	5369.984	20.33329	5372.072
18.81659	5367.416	19.58329	5370.028	20.34999	5372.073
18.83329	5367.492	19.6	5370.038	20.36659	5372.164
18.84999	5367.535	19.61659	5370.081	20.38329	5372.179
18.86659	5367.648	19.63329	5370.144	20.4	5372.226
18.88329	5367.668	19.64999	5370.201	20.41659	5372.26
18.9	5367.775	19.66659	5370.25	20.43329	5372.35
18.91659	5367.764	19.68329	5370.287	20.44999	5372.386
18.93329	5367.866	19.7	5370.356	20.46659	5372.384
18.94999	5367.868	19.71659	5370.378	20.48329	5372.452
18.96659	5367.913	19.73329	5370.424	20.5	5372.525
18.98329	5368.014	19.74999	5370.483	20.51659	5372.589
19	5368.083	19.76659	5370.578	20.53329	5372.594
19.01659	5368.1009	19.78329	5370.593	20.54999	5372.627
19.03329	5368.155	19.8	5370.664	20.56659	5372.674
19.04999	5368.247	19.81659	5370.694	20.58329	5372.679
19.06659	5368.335	19.83329	5370.747	20.6	5372.731
19.08329	5368.381	19.84999	5370.763	20.61659	5372.785
19.1	5368.393	19.86659	5370.756	20.63329	5372.866
19.11659	5368.476	19.88329	5370.815	20.64999	5372.837
19.13329	5368.5	19.9	5370.853	20.66659	5372.978
19.14999	5368.57	19.91659	5370.933	20.68329	5372.98
19.16659	5368.644	19.93329	5370.972	20.7	5373.013
19.18329	5368.767	19.94999	5371.004	20.71659	5373.073
19.2	5368.777	19.96659	5371.021	20.73329	5373.082
19.21659	5368.823	19.98329	5371.109	20.74999	5373.169
19.23329	5368.853	20	5371.184	20.76659	5373.127
19.24999	5368.892	20.01659	5371.264	20.78329	5373.234
19.26659	5368.977	20.03329	5371.24	20.8	5373.355
19.28329	5369.047	20.04999	5371.27	20.81659	5373.371
19.3	5369.092	20.06659	5371.325	20.83329	5373.378
19.31659	5369.147	20.08329	5371.374	20.84999	5373.428
19.33329	5369.215	20.1	5371.422	20.86659	5373.474

Port au Port Test #2 - Lower Cape Cormorant

Pressure Data - hours, psia (continued)

20.88329	5373.519
20.9	5373.594
20.91659	5373.665
20.93329	5373.649
20.94999	5373.681
20.96659	5373.792
20.98329	5373.778
21	5373.841
21.01659	5373.9009
21.03329	5373.948
21.04999	5373.94
21.06659	5374.05
21.08329	5374.095
21.1	5374.114
21.11659	5374.142
21.13329	5374.214
21.14999	5374.255
21.16659	5374.358
21.18329	5374.378
21.2	5374.372
21.21659	5374.417
21.23329	5374.45
21.24999	5374.515
21.26659	5374.6
21.28329	5374.573
21.3	5374.624
21.31659	5374.676
21.33329	5374.709
21.34999	5374.804
21.36659	5374.796
21.38329	5374.824
21.4	5374.924
21.41659	5374.968
21.43329	5375.036
21.44999	5375.011
21.46659	5374.979
21.48329	5375.1009
21.5	5375.132
21.51659	5375.144
21.53329	5375.19
21.54999	5375.052

FINAL WELL REPORT

NHOC/PanCanadian Port au Port No. 1

APPENDIX V

PRODUCTION TEST DATA

V - 8 DST #3, Field Data ..... NHOC

NEWFOUNDLAND HUNT OIL COMPANY INC.

JULY 1996

TEST # 3

PERF: 11390.0' - 11405.0'

PACKER: 11108.0

ACID: 37 BBLS 15% HCL

CLEAN-UP FLOW PERIOD 9 HRS

START FLOWING: 95-04-15 @ 05:45

SHUT-IN: 95-04-15 @ 12:45

FLOWING TIME: 7 HRS

AVERAGE PRODUCTION THROUGH 24/64 CHOKE

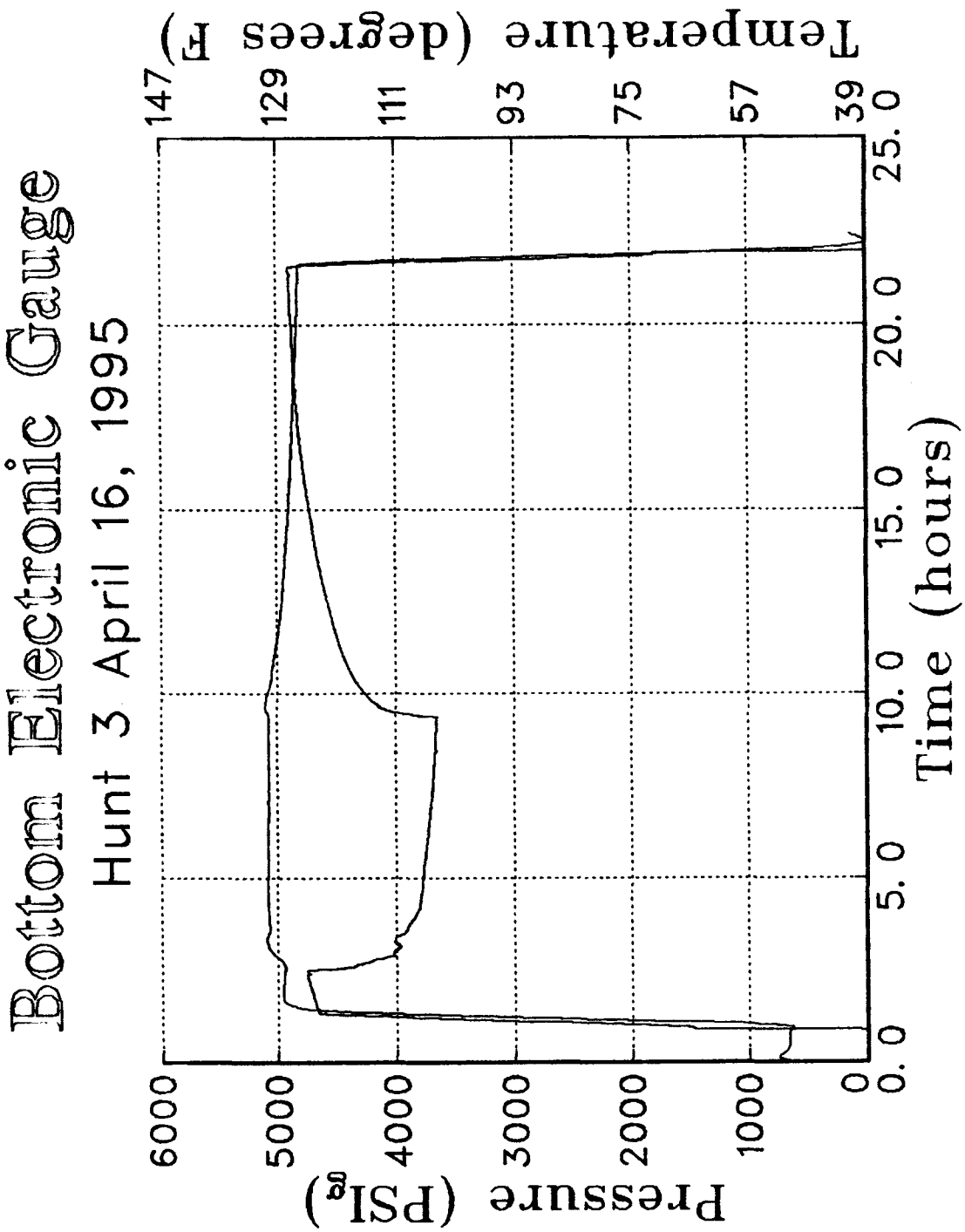
RATE: 96 BBL/HR (STB) 2.88 MMCFPD

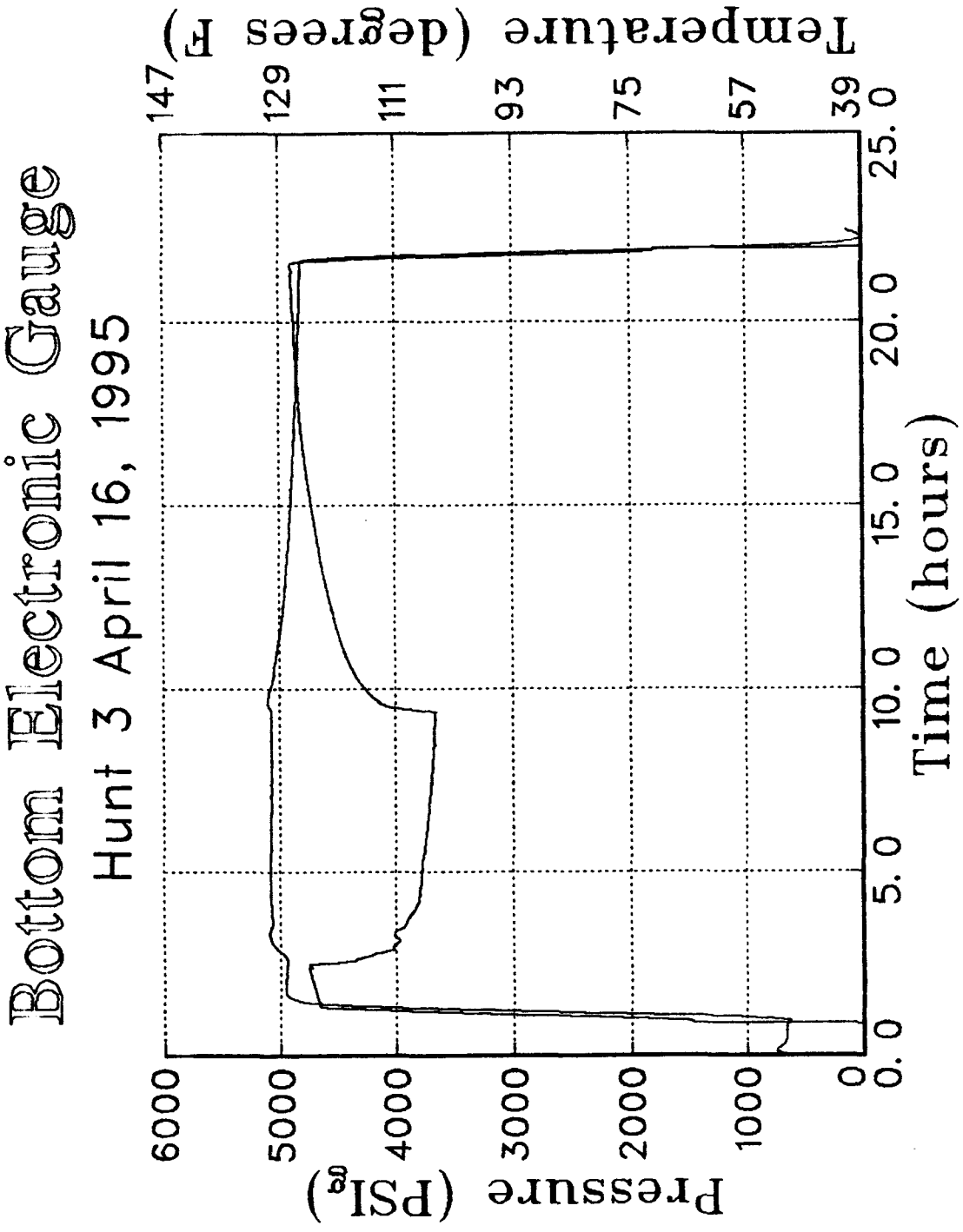
SALINITY 245,000 OIL GRAVITY 49.5

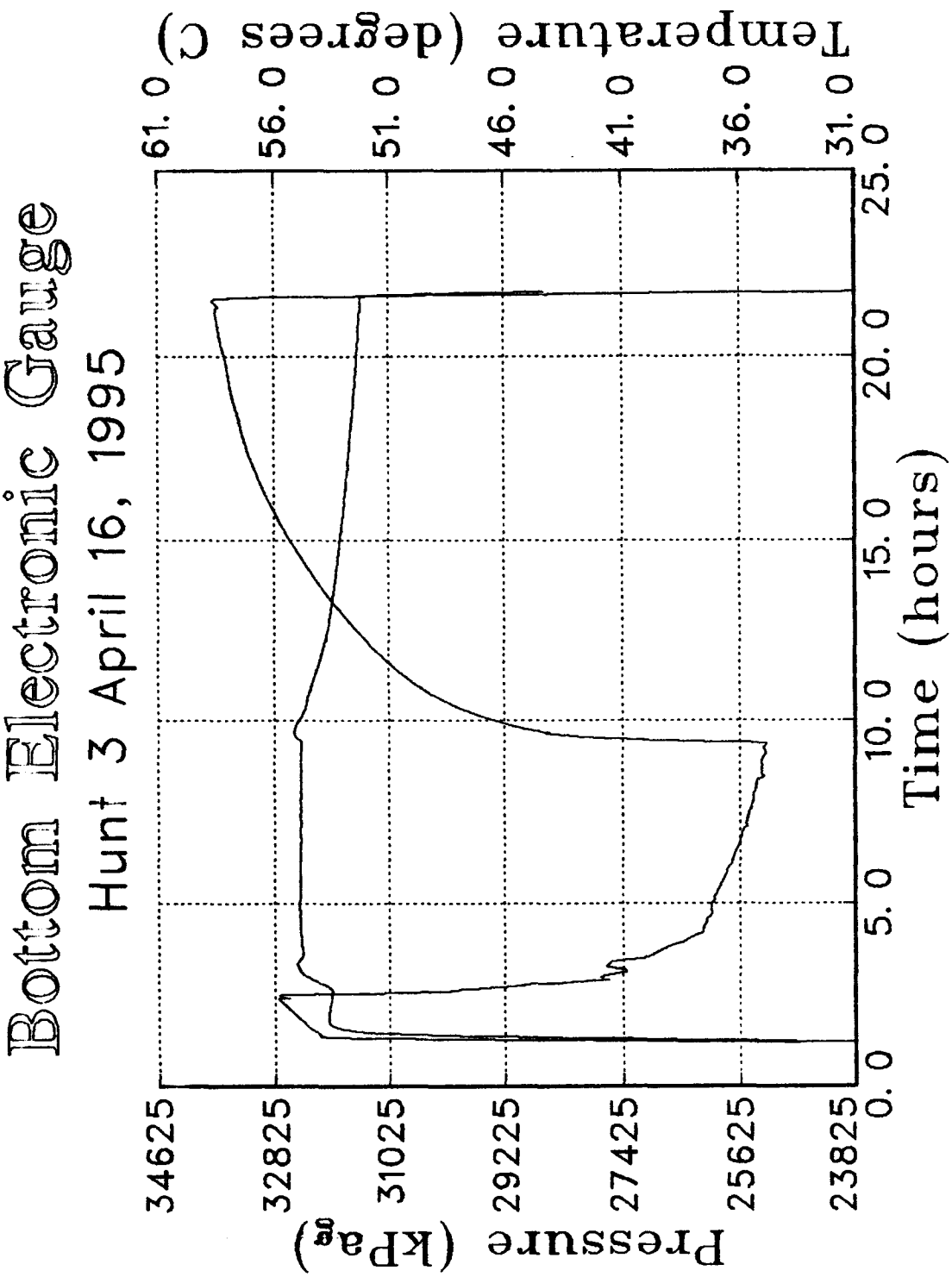
P^* ~~5284~~ 5307 @ 10PPG @ 11394.5' 8.95

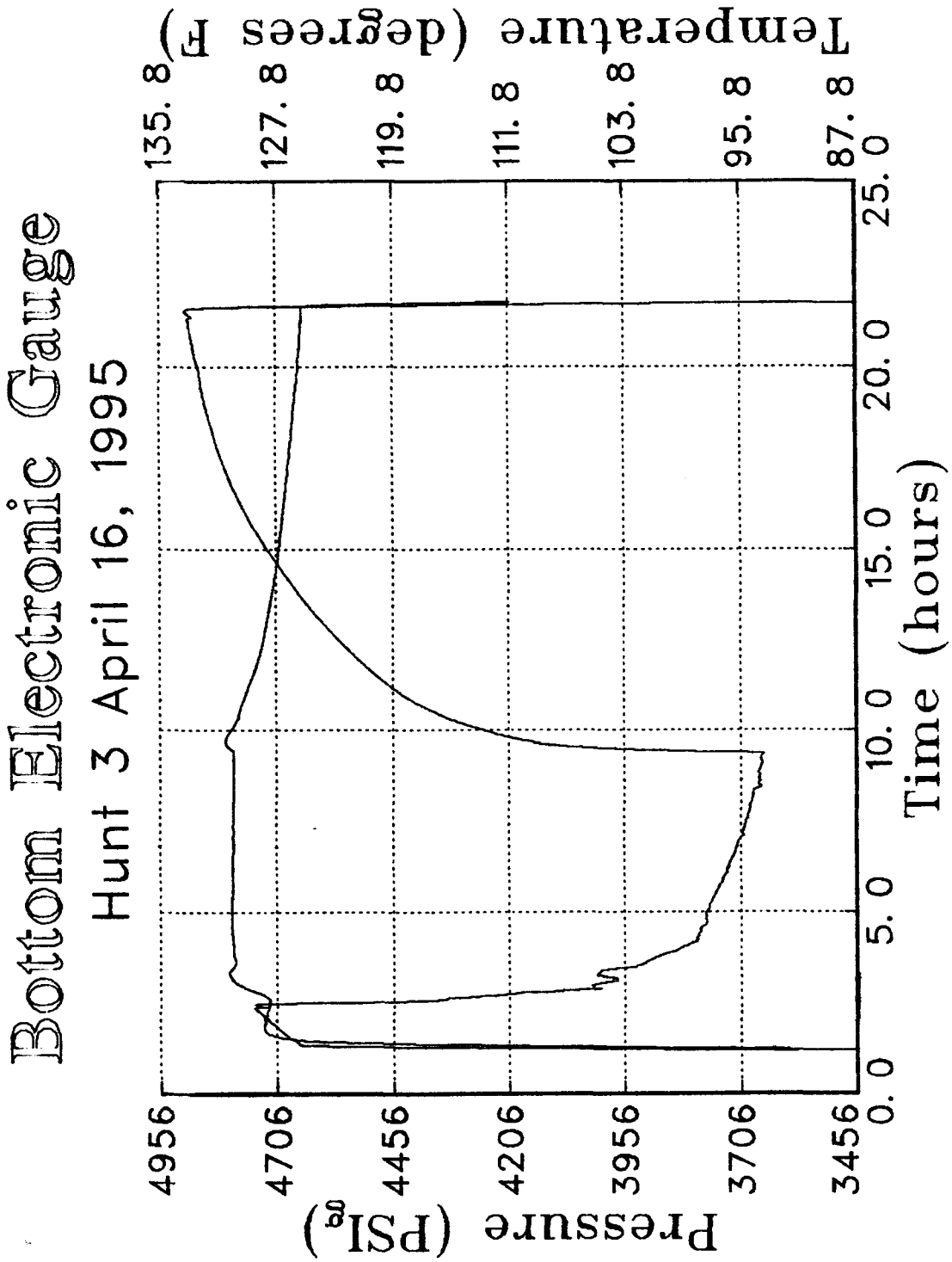
EQU MW = 8.95

TOTAL LOAD = ~~780~~ 239 BBLS


Bottom Electronic Gauge
Hunt 3 April 16, 1995
Pressure (PSIg)
6000
5000
4000
3000
2000
1000
0
Temperature (degrees F)
147
129
111
93
75
57
39
0. 0
5. 0
10. 0
15. 0
20. 0
25. 0
Time (hours)


Bottom Electronic Gauge
Hunt 3 April 16, 1995
Pressure (PSIg)
Temperature (degrees F)
Time (hours)
0
1000
2000
3000
4000
5000
6000
39
57
75
93
111
129
147
0. 0
5. 0
10. 0
15. 0
20. 0
25. 0


Bottom Electronic Gauge
Hunt 3 April 16, 1995
Pressure (kPa$_{ag}$)
34625
32825
31025
29225
27425
25625
23825
Temperature (degrees C)
61.0
56.0
51.0
46.0
41.0
36.0
31.0
0.0
5.0
10.0
15.0
20.0
25.0
Time (hours)


Bottom Electronic Gauge
Hunt 3 April 16, 1995
Pressure (PSIg)
4956
4706
4456
4206
3956
3706
3456
Temperature (degrees F)
135. 8
127. 8
119. 8
111. 8
103. 8
95. 8
87. 8
0. 0
5. 0
10. 0
15. 0
20. 0
25. 0
Time (hours)

Z.I.PROBES FIELD REPORT

Please fill this page out completely. Indicate N/A when information is not available to you.
Return this form with our probes. Thanks! See backside for important info.

Oil Co. HUNT OIL	Job No. Test 3
Z.I.Probes should send reports to: Name Dave Luttner Phone 817-795-5328 Address Dallas, TX	
Service Company SOLID Resources	
Representative Will Stordy	Phone 709-644-2350
Well Name Port-au-Port #1	
Well Location (LSD) NFLD	
Field	Pool
% H2S Sour	Type of inhibitor used:
Status: ☐ Oil ☐ Gas ☐ Other:	
Type of Test: ☑ Flow and Buildup ☐ Static Gradient ☐ Interference Other:	

Static Gradient Depth Table ☐ mKB ☐ mCF

Step	Depth	Start Time of Step	End Time of Step

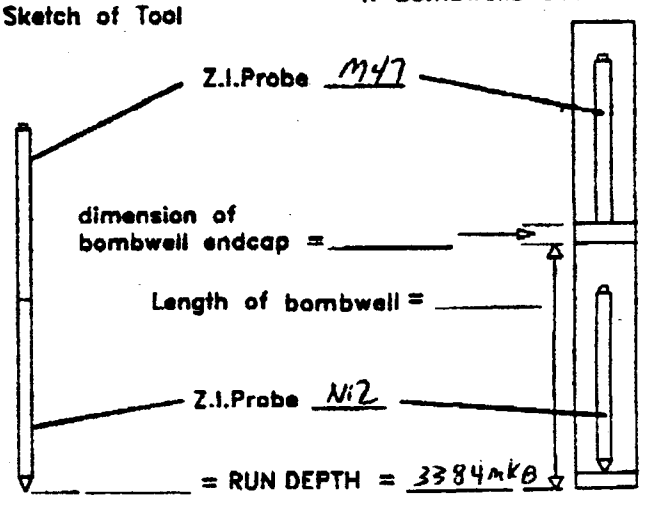
Producing Interval (Perfs of interest)	☐ mKB ☐ mCF
Midpoint of Perfs (MPP of interest)	☐ mKB ☐ mCF
Casing Flange CF m	KB-CF m
Kelly Bushing KB m	Ground Level GL m
Plugged Back Total Depth (PBTD)	☐ mKB ☐ mCF
Total Depth (TD)	☐ mKB ☐ mCF
Production Casing mm	Production Tubing mm
Shut in Dates/Durations 12:45	

TUBING dead weight Dates/Times	Pressure	CASING dead weight Dates/Times	Pressure

Date/Time On Bottom 15April 16:42	Date/Time Off Bottom 16April 00:57:00

Sketch of Tool

If Bombwells Used:



☑ mKB ☐ mCF

Test #3

TIME	CUM TIME	FLUID BBLS	OIL CUT	BBLS OIL	CUM OIL	BOPD OIL	MMCF/D	GOR MM/D	AVG RATE	HRS
07:45:00	0.00						1.19			
08:00:00	0.25						1.35			
08:15:00	0.50	14.00	0.35	4.90	4.90	470.40	1.35	2,878.40		
08:30:00	0.75	25.00	0.30	7.50	12.40	720.00	0.81	1,119.44		
09:00:00	1.25	11.50	0.30	3.45	15.85	165.60	1.18	7,125.60		
09:15:00	1.50	33.60	0.30	10.08	25.93	967.68	1.20	1,240.08	1.18	2,728.02
09:30:00	1.75	18.70	0.30	5.61	31.54	538.56	1.18	2,191.03	432.55	1.75
SHUT IN DUE TO FOAM PROBLEMS										
17:30:00	0.00									
18:00:00	0.50	36.50	0.50	18.25	49.79	876.00	1.78	2,031.96		
18:30:00	1.00	91.26	0.20	18.25	68.04	876.10	1.01	1,152.84		
19:00:00	1.50	73.40	0.50	36.70	104.74	1,761.60	3.37	1,913.03		
19:30:00	2.00	38.36	0.48	18.41	123.15	883.81	3.66	4,141.14		
20:00:00	2.50	16.67	0.55	9.17	132.32	440.09	3.61	8,202.90		
20:30:00	3.00	66.60	0.62	41.29	173.62	1,982.02	3.53	1,781.01		
21:00:00	3.50	50.00	0.65	32.50	206.12	1,560.00	3.33	2,134.62		
21:30:00	4.00	50.00	0.65	32.50	238.62	1,560.00	3.26	2,089.74		
22:00:00	4.50	25.00	0.70	17.50	256.12	840.00	3.37	4,011.90		
22:30:00	5.00	66.70	0.70	46.69	302.81	2,241.12	3.22	1,436.78		
23:00:00	5.50	88.30	0.70	61.81	364.62	2,966.88	2.91	980.83		
23:30:00	6.00	65.00	0.70	45.50	410.12	2,184.00	3.23	1,478.94		
00:00:00	6.50	86.70	0.70	60.69	470.81	2,913.12	3.19	1,095.05		
00:30:00	7.00	20.00	0.70	14.00	484.81	672.00	3.15	4,687.50		
01:00:00	7.50	93.30	0.70	65.31	550.12	3,134.88	3.24	1,033.53		
01:30:00	8.00	70.00	0.70	49.00	599.12	2,352.00	3.16	1,343.54		
02:00:00	8.50	43.30	0.70	30.31	629.43	1,454.88	2.94	2,020.79	3.05	1,737.95
02:30:00	9.00	85.00	0.70	59.50	688.93	2,856.00	2.88	1,008.40	1,753.03	9.00
SHUT IN TO RUN BOMBS					688.93					
					688.93					
05:50:00	0.00				688.93					
05:55:00	0.08				688.93					
06:00:00	0.17				688.93		3.20	na		
06:30:00	0.67	31.60	0.35	11.06	699.99	530.88	2.81	5,293.10		
07:00:00	1.17	90.00	0.35	31.50	731.49	1,512.00	2.60	1,719.58		
07:30:00	1.67	78.40	0.70	54.88	786.37	2,634.24	3.54	1,343.84		
08:00:00	2.17	20.00	0.70	14.00	800.37	672.00	3.23	4,806.55		
08:30:00	2.67	60.00	0.70	42.00	842.37	2,016.00	3.03	1,502.98		
09:00:00	3.17	60.00	0.70	42.00	884.37	2,016.00	2.82	1,398.81		
09:30:00	3.67	53.30	0.70	37.31	921.68	1,790.88	2.89	1,613.73		
10:00:00	4.17	35.00	0.70	24.50	946.18	1,176.00	2.38	2,023.81		
10:30:00	4.67	47.5	0.70	33.25	979.43	1,596.00	na	0.00		
11:00:00	5.17	47.5	0.70	33.25	1,012.68	1,596.00	3.01	1,885.96		
11:30:00	5.67	58.4	0.70	40.88	1,053.56	1,962.24	2.97	1,513.58		
12:00:00	6.17	33.3	0.75	24.97	1,078.53	1,198.80	2.97	2,477.48	2.74	1,815.44
12:30:00	6.67	40.1	0.75	30.08	1,108.61	1,443.60	2.95	2,043.50	1,510.85	6.67
								TOTAL	1,527.65	17.42

Data Listing: Every 10th point of the generic data file

Probe Number:
Company: Hunt Oil Co.
Well: Port-au-port #1 Test #3
Location: NFLD
Test Date(s): April 15,16 1995

Time	Pressure (psig)	Temperature (degrees F)
Sat Apr 15, 1995		
03:22:16	2.335	51.1225
03:32:16	2.251	52.4105
03:42:16	2.317	51.3786
03:52:16	2.316	51.1352
04:02:16	2.282	51.1224
04:12:16	2.252	50.8691
4:15:56	1475.244	50.6198
4:17:36	1501.500	50.7592
04:19:16	1652.621	51.9398
04:20:56	1856.335	54.2098
04:22:36	2077.507	57.0512
04:24:16	2318.028	60.8536
04:25:56	2571.312	65.3969
04:27:36	2817.758	70.6500
04:29:16	3085.151	76.5053
04:30:56	3342.753	82.3712
04:32:36	3582.842	87.8242
04:34:16	3819.626	93.2460
04:35:56	4049.648	98.4859
04:37:36	4272.797	103.4092
04:39:16	4502.978	108.2591
04:41:06	4609.555	113.5806
04:42:46	4657.513	117.7759 (On Bottom)
04:44:46	4659.370	121.4902
04:47:06	4660.327	124.2313
04:55:16	4679.622	127.8110
05:04:56	4693.778	128.5766
05:12:46	4705.959	128.6407
05:19:26	4716.239	128.5966
05:26:46	4727.208	128.5240
05:34:26	4738.400	128.4564
05:42:36	4750.298	128.3970
5:46:56	4740.307	128.3694
05:51:26	4745.475	128.3404
05:53:06	4623.050	128.3301
05:54:46	4461.855	128.3067
05:56:26	4392.916	128.2790
05:58:06	4346.586	128.2870
06:01:06	4323.668	128.4508
06:02:46	4280.485	128.5336
06:04:26	4251.862	128.6394
06:06:06	4217.205	128.7728
06:07:56	4196.691	128.9432
06:09:36	4172.986	129.1510
06:11:16	4108.932	129.3576
06:12:56	4081.537	129.5382
06:14:36	4050.694	129.7021
06:16:26	4015.358	129.8710
06:20:46	4022.119	130.2412
06:25:06	4005.416	130.5862
06:26:46	3990.424	130.6841
06:28:26	3974.919	130.7614
06:33:16	3979.654	130.8961
06:35:26	3996.261	130.9507
06:37:56	4012.843	131.0176
06:46:26	4001.052	130.9341
06:48:06	3977.832	130.8774
06:49:46	3955.096	130.8223
06:51:26	3938.019	130.7707
06:55:36	3923.532	130.6609
06:59:06	3911.165	130.6315
07:04:06	3898.621	130.6514
07:08:46	3885.720	130.6916
07:12:46	3872.932	130.7229
07:16:06	3859.016	130.7391
07:19:16	3842.877	130.7437
07:25:46	3827.760	130.7578
07:31:26	3813.497	130.7879
07:34:56	3800.452	130.8015
07:45:16	3795.827	130.8272
07:55:16	3790.097	130.8444
08:04:16	3778.792	130.8605
08:14:16	3778.930	130.8645
08:24:16	3777.190	130.8632
08:34:16	3772.285	130.8425
08:44:16	3765.483	130.8307
08:54:16	3758.231	130.8238

Data Listing: Every 10th point of the generic data fi

Probe Number:
Company: Hunt Oil Co.
Well: Port-au-port #1 Test #3
Location: NFLD
Test Date(s): April 15,16 1995

Time	Pressure (kPag)	Temperature (degrees C)
Sat Apr 15, 1995		
03:22:16	16.102	10.6236
03:32:16	15.517	11.3392
03:42:16	15.976	10.7659
03:52:16	15.966	10.6307
04:02:16	15.731	10.6235
04:12:16	15.529	10.4828
4:15:56	10171.512	10.3444
4:17:36	10352.542	10.4218
04:19:16	11394.491	11.0777
04:20:56	12799.057	12.3388
04:22:36	14323.997	13.9173
04:24:16	15982.340	16.0298
04:25:56	17728.682	18.5538
04:27:36	19427.881	21.4722
04:29:16	21271.498	24.7252
04:30:56	23047.611	27.9840
04:32:36	24702.980	31.0135
04:34:16	26335.557	34.0256
04:35:56	27921.514	36.9366
04:37:36	29460.084	39.6718
04:39:16	31047.131	42.3662
04:41:06	31781.961	45.3226
04:42:46	32112.623	47.6533
04:44:46	32125.424	49.7168
04:47:06	32132.025	51.2396
04:55:16	32265.059	53.2283
05:04:56	32362.662	53.6536
05:12:46	32446.646	53.6893
05:19:26	32517.521	53.6648
05:26:46	32593.156	53.6244
05:34:26	32670.318	53.5869
05:42:36	32752.352	53.5539
5:46:56	32683.471	53.5385
05:51:26	32719.100	53.5225
05:53:06	31875.008	53.5167
05:54:46	30763.598	53.5037
05:56:26	30288.277	53.4883
05:58:06	29968.840	53.4928
06:01:06	29810.824	53.5838
06:02:46	29513.088	53.6298
06:04:26	29315.738	53.6885
06:06:06	29076.783	53.7627
06:07:56	28935.346	53.8573
06:09:36	28771.902	53.9728
06:11:16	28330.264	54.0876
06:12:56	28141.381	54.1879
06:14:36	27928.725	54.2789
06:16:26	27685.088	54.3728
06:20:46	27731.709	54.5785
06:25:06	27616.543	54.7701
06:26:46	27513.176	54.8245
06:28:26	27406.270	54.8675
06:33:16	27438.918	54.9423
06:35:26	27553.422	54.9726
06:37:56	27667.750	55.0098
06:46:26	27586.451	54.9634
06:48:06	27426.359	54.9319
06:49:46	27269.594	54.9013
06:51:26	27151.854	54.8726
06:55:36	27051.971	54.8116
06:59:06	26966.701	54.7953
07:04:06	26880.215	54.8063
07:08:46	26791.262	54.8287
07:12:46	26703.092	54.8460
07:16:06	26607.143	54.8550
07:19:16	26495.865	54.8576
07:25:46	26391.637	54.8654
07:31:26	26293.297	54.8821
07:34:56	26203.357	54.8897
07:45:16	26171.465	54.9040
07:55:16	26131.963	54.9136
08:04:16	26054.012	54.9225
08:14:16	26054.967	54.9247
08:24:16	26042.969	54.9240
08:34:16	26009.150	54.9125
08:44:16	25962.254	54.9060
08:54:16	25912.252	54.9021

SOLID RESOURCES LTD.

FIELD DATA

CUSTOMER: Hunt Oil Company
WELL NAME: NFLD PROTECT #1
FLOWING: <TUBING> CASING
TEST INTERVAL M
GAS TO: FLARE PIPELINE <VENT>
GAS GRAVITY H.S. .80 L.S.

PAGE 16
DATE APRIL 13, 1995
JOB # 63
ZONE 43

TIME	WELLHEAD DATA			SEPARATOR GAS DATA				FLUID DATA														
				HS MR. 102.49 mm Orf. HS M. 1723 KPA X 99.6 KPA				Fl Meter # OIL SIZE FACTOR TK # TK #			Fl. Meter # OIL Size FACTOR TK # TK #			Fl. Meter # 5877 H_2O SIZE 2" FACTOR 1.0000			Fl. Meter # SIZE 50.8mm FACTOR 1.0000				
S.I. UNITS	TUBE PRESS Pga/kPa			LS MR. mm Orf. LS M. X				CAP m³ m³/mm			OIL DATA		CAP 15.9 m³ 0.004501 m³/mm			WATER DATA			SHIPPING		Salinity PPM	BS&W %H_2O
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d		mm	m³	Hrly. Prod. m³	Comm. Prod. m³		mm	m³	Hrly. Water Prod. m³	Cumm. Water Prod. m³		OIL SHP. m³	WATER SHP. m³	G.O.R.	TK. TEMP. DEG. C.
1625	Zone #3 Safety MEETING.														0/6	0	0					
1710	Circulate fluid to FRAC MANIFOLD.																				78,222 PH-6	100%
1730	Run Endless Tubing in well															0.09	0.09				7,111 PH-6	100%
1745	Ø															0.99	1.08				5,333 PH-6	100%
1800	Ø										Fluid weight		8.7			0.85	1.93				5,333 PH-6	0.5% SED
1815	Ø															0.92	2.85					
1830	Ø															1.05	3.90					
1845	Ø															0.61	4.51					
1900	Ø										FLUID WEIGHT		8.7			0.67	5.18				16,000 PH-6	0.8% SED
1915	Ø															0.56	5.74					

1800 Hrs take Grind outs Every hour, Salinity and PH. untill acid is Pumped.

CUMM. PROD. SINCE (Hrs.)		LIQUID PRODUCTION: TANK #	TANK #
GAS PRODUCTION (Hrs.)	10E3m³	BALANCE: OIL H_2O	OIL
GAS PRODUCTION COMM.	10E3m³	OPENING GAUGE:	
LIQUID PRODUCTION (Hrs.)		PRODUCTION	
OIL m³ Water m³		TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m³ Water m³		CLOSING GAUGE:	

SOLID RESOURCES LTD.

FIELD DATA

CUSTOMER: Hunt Oil Company
WELL NAME: NFLD PROJECT #1

PAGE 16 JOB # 63
DATE APRIL 13, 1995 ZONE #3

FLOWING (TUBING) CASING GAS TO: FLARE PIPELINE (VENT)
TEST INTERVAL M GAS GRAVITY H.S. .80 L.S.

TIME	WELLHEAD DATA			SEPARATOR GAS DATA				FLUID DATA																
				HS MR. 102.49 HS M. 1723 KPA	mm Orl. x 99.6 KPA			Fl Meter # OIL SIZE FACTOR TK # TK # CAP m³ m³/mm			OIL DATA		Fl. Meter # OIL Size FACTOR TK # TK # CAP 15.9 m³ 0.004501 m³/mm			Fl. Meter # 5877 H₂O SIZE 2" FACTOR 1.0000		Fl. Meter # SIZE 50.8mm FACTOR 1.0000	WATER DATA		SHIPPING		Salinity PPM	BS&W %H₂O
S.I. UNITS	TUBE PRESS Pga/kPa			LS MR. LS M.	mm Orl. X																			
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d		mm	m³	Hrly. Prod. m³	Comm. Prod. m³		mm	m³	Hrly. Water Prod. m³	Cumm. Water Prod. m³		OIL SHP. m³	WATER SHP. m³	G.O.R.	TK. TEMP. DEG. C.
1625	Zone #3		Safety MEETING.												0%	0	0						
1710	Circulate Fluid to FRAC MANIFOLD.																					78,222 PH-6	100%
1730	Run Endless Tubing in well															0.09	0.09					7,111 PH-6	100%
1745	Ø															0.99	1.08					5,333 PH-6	100%
1800	Ø										Fluid	weight	8.7			0.85	1.93					5,333 PH-6	0.5%SED
1815	Ø															0.92	2.85						
1830	Ø															1.05	3.90						
1845	Ø															0.61	4.51						
1900	Ø										FLUID	WEIGHT	8.7			0.67	5.18					16000 PH-6	0.8%SED
1915	Ø															0.56	5.74						

1800 Hrs take Grind outs Every hour, Salinity and PH. untill acid is Pumped.

CUMM. PROD. SINCE (Hrs.)		LIQUID PRODUCTION: TANK #	TANK #
GAS PRODUCTION (Hrs.)	10E3m³	BALANCE: OIL H_2O	OIL
GAS PRODUCTION COMM.	10E3m³	OPENING GAUGE:	
LIQUID PRODUCTION (Hrs.)		PRODUCTION	
OIL m³ Water	m³	TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m³ Water	m³	CLOSING GAUGE:	

SOLID RESOURCES LTD.

FIELD DATA

CUSTOMER: HUNT OIL COMPANY
WELL NAME: NFLD PROJECT #1
FLOWING: (TUBING) CASING
TEST INTERVAL M

GAS TO: FLARE PIPELINE (VENT)
GAS GRAVITY H.S. .80 L.S.

PAGE 17
DATE APRIL 13.95

JOB # 63
ZONE 3

TIME	WELLHEAD DATA			SEPARATOR GAS DATA				FLUID DATA															
				HS MR. 102.49 mm Orf.				Fl Meter # OIL				Fl. Meter # OIL			Fl. Meter # H_2O			Fl. Meter #					
				HS M. 1723 KPA X 19.96				SIZE FACTOR				Size FACTOR			SIZE FACTOR			SIZE FACTOR					
								TK # TK #				TK # TK #											
S.I. UNITS	TUBE PRESS Pga/kPa			LS MR. mm Orf.				CAP m^3 m^3/mm			OIL DATA		CAP 15.9 m^3 0.004501 m^3/mm			WATER DATA			SHIPPING		Salinity PPM	BS&W $\%H_2O$
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d		mm	m^3	Hrly. Prod. m^3	Comm. Prod. m^3		mm	m^3	Hrly. Water Prod. m^3	Cumm. Water Prod. m^3		OIL SHP. m^3	WATER SHP. m^3	G.O.R.	TK. TEMP. DEG. C.
															0/6	—	5.74					
1930	Ø															0.86	6.60					
1945	Ø															0.87	7.47					
2000	Ø										FLUID	WEIGHT	8.6			0.94	8.41				16.000	PH-6
																						TR-SED
2015	Ø															0.75	9.16					
2030	Ø															1.03	10.19					
2045	Ø															0.86	11.05					
2100	Ø										FLUID	WEIGHT				0.92	11.97				16.000	PH-6
																						TR-SED
2115	Ø															0.72	12.69					
2130	Ø															0.34	13.03					
2200		START AND SQUEEZE														2.10	14.13					

CUMM. PROD. SINCE (Hrs.)		LIQUID PRODUCTION: TANK #	TANK #
GAS PRODUCTION (Hrs.)	10E3m³	BALANCE: OIL H_2O	OIL
GAS PRODUCTION COMM.	10E3m³	OPENING GAUGE:	
LIQUID PRODUCTION (Hrs.)		PRODUCTION	
OIL m³ Water	m³	TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m³ Water	m³	CLOSING GAUGE:	

SOLID RESOURCES LTD.

FIELD DATA

CUSTOMER: HUNT OIL COMPANY
WELL NAME: NFLD PROJECT #1
FLOWING <TUBING> CASING
TEST INTERVAL M

GAS TO: FLARE PIPELINE <VENT>
GAS GRAVITY H.S. .80 L.S.

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JOB # 63
ZONE 3

TIME	WELLHEAD DATA			SEPARATOR GAS DATA				FLUID DATA																
				HS MR. 102.49 mm Orf. HS M. 1723 KPA X 19.96				Fl Meter # OIL SIZE FACTOR TK # TK #				Fl. Meter # OIL Size FACTOR TK # TK #				Fl. Meter # H_2O SIZE FACTOR				Fl. Meter # SIZE FACTOR		
S.I. UNITS	TUBE PRESS Pga/kPa			LS MR. LS M. mm Orf. X				CAP m^3 m^3/mm			OIL DATA		CAP 15.9 m^3 0.004501 m^3/mm			WATER DATA			SHIPPING		Salinity PPM	BS&W $\%H_2O$
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d		mm	m^3	Hrly. Prod. m^3	Comm. Prod. m^3		mm	m^3	Hrly. Water Prod. m^3	Cumm. Water Prod. m^3		OIL SHP. m^3	WATER SHP. m^3	G.O.R.	TK. TEMP. DEG. C.
															0/6	—	5.74					
1930	Ø															0.86	6.60					
1945	Ø															0.87	7.47					
2000	Ø										FLUID	WEIGHT	8.6			0.94	8.41				16.000	PH-6 TR-SED
2015	Ø															0.75	9.16					
2030	Ø															1.03	10.19					
2045	Ø															0.86	11.05					
2100	Ø										FLUID	WEIGHT				0.92	11.97				16.000	PH-6 TR-SED
2115	Ø															0.72	12.69					
2130	Ø															0.34	13.03					
2200		START AND SQUEAZE														2.10	14.13					

CUMM. PROD. SINCE (Hrs.)		LIQUID PRODUCTION: TANK #	TANK #
GAS PRODUCTION (Hrs.)	$10E3m^3$	BALANCE: OIL H_2O	OIL
GAS PRODUCTION COMM.	$10E3m^3$	OPENING GAUGE:	
LIQUID PRODUCTION (Hrs.)		PRODUCTION	
OIL m^3 Water m^3		TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m^3 Water m^3		CLOSING GAUGE:	

SOLID RESOURCES LTD.

FIELD DATA

CUSTOMER: HUNT OIL COMPANY
WELL NAME: NFLD PROJECT #1
FLOWING: TUBING CASING
TEST INTERVAL M

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JOB # 63
ZONE 3

GAS TO: FLARE PIPELINE <VENT>
GAS GRAVITY H.S. .80 L.S.

TIME	WELLHEAD DATA			SEPARATOR GAS DATA				FLUID DATA														
				HS MR. 102 49 mm Orf. HS M. 1723 X 9.96				Fl Meter # OIL SIZE FACTOR TK # TK #			Fl. Meter # OIL Size FACTOR TK # TK #			Fl. Meter # H_2O SIZE FACTOR			Fl. Meter # SIZE FACTOR				
S.I. UNITS	TUBE PRESS Pga/kPa			LS MR. mm Orf. LS M. X				CAP m³ m³/mm			OIL DATA		CAP 15.9 m³ 0.004 m³/mm			WATER DATA			SHIPPING		Salinity PPM	BS&W %H_2O
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d		mm	m³	Hrly. Prod. m³	Comm. Prod. m³		mm	m³	Hrly. Water Prod. m³	Cumm. Water Prod. m³		OIL SHP. m³	WATER SHP. m³	G.O.R.	TK. TEMP. DEG. C.
		OPEN WELL 25.4 min CHOKE													0/6	–	0					
2345	Ø															0.67	0.67					
0000	Ø															0.77	1.44				16.000	PH-6
0015	Ø															1.69	3.13					
0030	Ø										FLUID WEIGHT		8.6			2.32	5.45				8.889	PH-6
0045	Ø															2.16	7.61					
0100	Ø															2.14	9.75				8.889	PH-6 TR-SED
0115	Ø															2.36	12.11					
0130	344										FLUID WEIGHT		8.6			2.01	14.12				8.889	PH-6
0145	4826		DECREASE CHOKE													7.91	20.02					
0200	6895															1.98	22.00				160.000	PH-0

CUMM. PROD. SINCE (Hrs.)		LIQUID PRODUCTION: TANK #	TANK #
GAS PRODUCTION (Hrs.)	10E3m³	BALANCE: OIL H_2O	OIL
GAS PRODUCTION COMM.	10E3m³	OPENING GAUGE:	
LIQUID PRODUCTION (Hrs.)		PRODUCTION	
OIL m³ Water	m³	TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m³ Water	m³	CLOSING GAUGE:	

SOLID RESOURCES LTD.

FIELD DATA

CUSTOMER: HUNT OIL COMPANY
WELL NAME: NFLD PROJECT #1
FLOWING: TUBING CASING
TEST INTERVAL M

GAS TO: FLARE PIPELINE ⟨VENT⟩
GAS GRAVITY H.S. .80 L.S.

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JOB # 63
ZONE 3

TIME	WELLHEAD DATA			SEPARATOR GAS DATA				FLUID DATA																
				HS MR. 102.49 mm Orf. HS M. 1723 X 9.96				Fl Meter # OIL SIZE FACTOR TK # TK #				Fl. Meter # OIL Size FACTOR TK # TK #				Fl. Meter # H_2O SIZE FACTOR			Fl. Meter # SIZE FACTOR				
S.I. UNITS	TUBE PRESS Pga/kPa			LS MR. LS M. mm Orf. X				CAP m³ m³/mm			OIL DATA		CAP 15.9 0.004 m³ m³/mm			WATER DATA			SHIPPING		Salinity PPM	BS&W $\%H_2O$	
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d		mm	m³	Hrly. Prod. m³	Comm. Prod. m³		mm	m³	Hrly. Water Prod. m³	Cumm. Water Prod. m³		OIL SHP. m³	WATER SHP. m³	G.O.R.	TK. TEMP. DEG. C.	
		OPEN	WELL	25.4mm CHOKE											0/6	—	0							
2345	Ø															0.67	0.67							
0000	Ø															0.77	1.44				16.000	PH-6		
0015	Ø															1.69	3.13							
0030	Ø										FLUID	WEIGHT	8.6			2.32	5.45				8.889	PH-6		
0045	Ø															2.16	7.61							
0100	Ø															2.14	9.75				8.889	PH-6		
																						TR-SED		
0115	Ø															2.36	12.11							
0130	344										FLUID	WEIGHT	8.6			2.01	14.12				8.889	PH-6		
0145	4826		DECREASE CHOKE													7.91	20.02							
0200	6895															1.98	22.00				160.000	PH-0		

CUMM. PROD. SINCE (Hrs.)		LIQUID PRODUCTION: TANK #	TANK #
GAS PRODUCTION (Hrs.)	10E3m³	BALANCE: OIL H_2O	OIL
GAS PRODUCTION COMM.	10E3m³	OPENING GAUGE:	
LIQUID PRODUCTION (Hrs.)		PRODUCTION	
OIL m³ Water	m³	TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m³ Water	m³	CLOSING GAUGE:	

SOLID RESOURCES LTD.

FIELD DATA

CUSTOMER: HUNT OIL COMPANY
WELL NAME: NFLD PROJECT #1
FLOWING: <TUBING> CASING
TEST INTERVAL M

GAS TO: FLARE PIPELINE <VENT>
GAS GRAVITY H.S. .80 L.S.

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JOB # 63
ZONE 3

TIME	WELLHEAD DATA			SEPARATOR GAS DATA			
				HS MR. 1824.41 mm Orf. 47.62			
				HS M. 1723 X 9.96			
S.I. UNITS	TUBE PRESS Pga/kPa			LS MR. mm Orf.			
				LS M. X			
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d
	13.09						
0215	4826						
0230	4826						
0245	4826						
0300	4826						
0315	4826						
0330	4826						
0345	4826						
0400	4826						
0415	4826						
0430	4137						

FLUID DATA

Fl Meter #	OIL	Fl. Meter #	OIL	Fl. Meter #	H_2O	Fl. Meter #	
SIZE	FACTOR	Size	FACTOR	SIZE	FACTOR	SIZE	FACTOR
TK #	TK #	TK #	TK #				

CAP	m^3 m^3/mm	OIL DATA	CAP 15.9	m^3 m^3/mm	0.0011501

			Hrly. Prod. m^3	Comm. Prod. m^3		mm	m^3
							0/6
				FLUID LIGHT		8.6	
						8.6	
						8.8	
						8.6	

WATER DATA			SHIPPING		Salinity PPM	BS&W $\%H_2O$
Hrly. Water Prod. m^3	Cumm. Water Prod. m^3		OIL SHP. m^3	WATER SHP. m^3	G.O.R.	TK. TEMP. DEG. C.
—	22.00					
1.18	23.18				160.000	PH-O
						TR-SED
3.63	26.81				101.888	PH-O
0.79	27.60					PH-O
						TR-SED
1.71	29.46					PH-O
5.25	34.71					PH-O
3.44	38.15				80.000	PH-1
4.72	42.87				74.667	PH-1
4.35	47.22					
5.45	52.67				77.778	PHA
9.11	61.78					

CUMM. PROD. SINCE (Hrs.)		LIQUID PRODUCTION: TANK #	TANK #
GAS PRODUCTION (Hrs.)	10E3m³	BALANCE: OIL H_2O	OIL
GAS PRODUCTION COMM.	10E3m³	OPENING GAUGE:	
LIQUID PRODUCTION (Hrs.)		PRODUCTION	
OIL m^3 Water	m^3	TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m^3 Water	m^3	CLOSING GAUGE:	

SOLID RESOURCES LTD.

FIELD DATA

CUSTOMER: HUNT OIL COMPANY
WELL NAME: NFLD PROJECT #1
FLOWING: <TUBING> CASING
TEST INTERVAL M

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JOB # 63
ZONE 3

GAS TO: FLARE PIPELINE <VENT>
GAS GRAVITY H.S. 80 L.S.

TIME	WELLHEAD DATA			SEPARATOR GAS DATA				FLUID DATA														
				HS MR. 102.49 mm Orf. 47.62 HS M. 1723 X 9.96				Fl Meter # OIL SIZE FACTOR TK # TK #			Fl. Meter # OIL Size FACTOR TK # TK #			Fl. Meter # H_2O SIZE FACTOR			Fl. Meter # SIZE FACTOR				
S.I. UNITS	TUBE PRESS Pga/kPa			LS MR. mm Orf. LS M. X				CAP m³ m³/mm			OIL DATA		CAP 15.9 m³ 0.00H501 m³/mm			WATER DATA			SHIPPING		Salinity PPM	BS&W %H_2O
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d		mm	m³	Hrly. Prod. m³	Comm. Prod. m³		mm	m³	Hrly. Water Prod. m³	Cumm. Water Prod. m³		OIL SHP. m³	WATER SHP. m³	G.O.R.	TK. TEMP. DEG. C.
	13.09														O/G	—	22.00					
0215	4826															1.18	23.18				160.000	PH-0
												FLUID WEIGHT		8.6								TR-SED
0230	4826															3.63	26.81				104.889	PH-0
0245	4826															0.88	27.69					PH-0
														8.6								TR-SED
0300	4826															1.77	29.46					PH-0
0315	4826															5.25	34.71					PH-0
														8.8								
0330	4826															3.44	38.15				80.000	PH-1
0345	4826															4.72	42.87				74.667	PH-1
														8.6								
0400	4826															4.35	47.22					
0415	4826															5.45	52.67				97.778	PH6
0430	4137															9.11	61.88					

CUMM. PROD. SINCE (Hrs.)		LIQUID PRODUCTION: TANK #	TANK #
GAS PRODUCTION (Hrs.)	10E3m³	BALANCE: OIL H_2O	OIL
GAS PRODUCTION COMM.	10E3m³	OPENING GAUGE:	
LIQUID PRODUCTION (Hrs.)		PRODUCTION	
OIL m³ Water m³		TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m³ Water m³		CLOSING GAUGE:	

SOLID RESOURCES LTD.

FIELD DATA

CUSTOMER: HUNT OIL COMPANY
WELL NAME: NFLD PROJECT #1

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FLOWING <TUBING> CASING TEST INTERVAL M

GAS TO: FLARE PIPELINE <VENT>
GAS GRAVITY H.S., 60 L.S.

TIME	WELLHEAD DATA			SEPARATOR GAS DATA				FLUID DATA															
				HS MR. 102.49 HS M. 1763		mm Orf. 47.62 x 99.6		Fl Meter # SIZE TK #		OIL FACTOR TK #		Fl. Meter # Size TK #		OIL FACTOR TK #		Fl. Meter # SIZE		H_2O FACTOR		Fl. Meter # SIZE		FACTOR	
S.I. UNITS	TUBE PRESS Pga/kPa			LS MR. LS M.		mm Orf. X		CAP		m^3 m^3/mm	OIL DATA			CAP 15.9		m^3 m^3/mm	WATER DATA			SHIPPING		Salinity PPM	BS&W $\%H_2O$
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d		mm	m^3	Hrly. Prod. m^3	Comm. Prod. m^3		mm	m^3		Hrly. Water Prod. m^3	Cumm. Water Prod. m^3		OIL SHP. m^3	WATER SHP. m^3	G.O.R.	TK. TEMP. DEG. C.
	13.09														5/6		-	6.78					
0445	4137			Gas	Gravity Changed to		0.60										2.22	65.40					
				METER IN SERVICE			47.62 mm orfice Plate.																20% COND
0500	4137			413	39.84	10	71.08										7.71	72.57				97.778	PH-6
0515	4137			413	38.84	12	69.94										4.87	77.44					
0530	4137			413	38.84	12	69.94										6.80	84.24				97.778	7% SED
																						PH-7	30% COND
0545	4137			482	38.34	12	73.99										5.98	90.22				122.667	
																						PH-7	
0600	4137			482	42.33	12	77.74										4.36	94.58					
0615	4137			482	44.82	12	79.99										6.06	100.64					
0630	4826			482	44.82	12	79.99				FLUID WEIGHT			8.5			4.48	105.12				141.000	
																						PH-6	
0645	4826			482	36.10	12	71.80										5.06	110.18					
																							2.5 SED
0700	6205			482	38.84	12	74.47										6.28	116.46				PH-7	25% COND

CUMM. PROD. SINCE (Hrs.)		LIQUID PRODUCTION: TANK #	TANK #
GAS PRODUCTION (Hrs.)	10E3m³	BALANCE: OIL H_2O	OIL
GAS PRODUCTION COMM.	10E3m³	OPENING GAUGE:	
LIQUID PRODUCTION (Hrs.)		PRODUCTION	
OIL m^3 Water	m^3	TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m^3 Water	m^3	CLOSING GAUGE:	

SOLID RESOURCES LTD.

FIELD DATA

CUSTOMER: HUNT OIL COMPANY
WELL NAME: NFLD PROJECT #1
FLOWING <TUBING> CASING
TEST INTERVAL M

GAS TO: FLARE PIPELINE <VENT>
GAS GRAVITY H.S. 0.60 L.S.

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TIME	WELLHEAD DATA			SEPARATOR GAS DATA				FLUID DATA															
				HS MR. 102.49 mm Orf. 47.62 HS M. 1728 X 99.6				Fl Meter # OIL SIZE FACTOR TK # TK # CAP m³ m³/mm				Fl. Meter # OIL Size FACTOR TK # TK # CAP 15.9 m³ 0.004501 m³/mm				Fl. Meter # H₂O SIZE FACTOR		Fl. Meter # SIZE FACTOR			
S.I. UNITS	TUBE PRESS Pga/kPa			LS MR. LS M. mm Orf. X				OIL DATA				WATER DATA			SHIPPING		Salinity PPM	BS&W %H₂O					
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d		mm	m³	Hrly. Prod. m³	Comm. Prod. m³		mm	m³	Hrly. Water Prod. m³	Cumm. Water Prod. m³		OIL SHP. m³	WATER SHP. m³	G.O.R.	TK. TEMP. DEG. C.	
	13.09														0/6	-	61.78						
0445	4137			Gas	Gravity Changed To 0.60											3.62	65.40						
				METER IN SERVICE			42.62 mm orface Plate.															20%CON	
0600	4137			413	39.84	10	71.08									7.71	72.57				97.778	PH-6	
0515	4137			413	38.84	12	69.94									4.87	77.44						
0530	4137			413	38.84	12	69.94									6.80	84.24				97.778	.7%SED	
																					PH-7	30%COND	
0545	4137			482	38.34	12	73.99									5.98	90.22				122.667		
																					PH-7		
0600	4137			482	42.33	12	77.74									4.36	94.58						
0615	4137			482	44.82	12	79.99									6.06	100.64						
0630	4826			482	44.82	12	79.99				Fluid	Weight	8.5			4.48	105.12				144.000		
																					PH-6		
0645	4826			482	36.10	12	71.80									5.06	110.18						
																						2.5%SED	
0700	6205			482	38.84	12	74.47									6.28	116.46				PH-7	25%COND	

CUMM. PROD. SINCE (Hrs.)		LIQUID PRODUCTION: TANK #	TANK #
GAS PRODUCTION (Hrs.)	10E3m³	BALANCE: OIL H₂O	OIL
GAS PRODUCTION COMM.	10E3m³	OPENING GAUGE:	
LIQUID PRODUCTION (Hrs.)		PRODUCTION	
OIL m³ Water	m³	TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m³ Water	m³	CLOSING GAUGE:	

SOLID RESOURCES LTD.

FIELD DATA

CUSTOMER: Hunt Oil Company
WELL NAME: NFLD PROJECT #1
FLOWING <TUBING> CASING
TEST INTERVAL M

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JOB # 63
ZONE #3

GAS TO: FLARE PIPELINE <VENT>
GAS GRAVITY H.S. .60 L.S.

TIME	WELLHEAD DATA			SEPARATOR GAS DATA				FLUID DATA														
				HS MR. 102.49 mm Orf. 47.62 HS M. 1725 X 99.6				Fl Meter # OIL SIZE FACTOR TK # TK #			Fl. Meter # OIL Size FACTOR TK # TK #			Fl. Meter # 5577 H_2O SIZE ✓ FACTOR 1.0000			Fl. Meter # SIZE FACTOR 1.0000				
S.I. UNITS	TUBE PRESS Pga/kPa			LS MR. mm Orf. LS M. X				CAP m³ m³/mm			OIL DATA		CAP 15.9 m³ 0.004501 m³/mm			WATER DATA			SHIPPING		Salinity PPM	BS&W %H_2O
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d		mm	m³	Hrly. Prod. m³	Comm. Prod. m³		mm	m³	Hrly. Water Prod. m³	Cumm. Water Prod. m³		OIL SHP. m³	WATER SHP. m³	G.O.R.	TK. TEMP. DEG. C.
0700	change Gas Gravity To 0.60														0/6	—	116.47					
	13.09																					
0715	4826			482	37.35	12	73.02									7.32	123.79				125,000	67.5%
	decrease choke to 7.54 Producing to much foam in Seperator. Increase back pressure.																				PH-6	2.5% SED
0730	6205			517	8.71	12	36.30									3.51	127.30				125,000	67.5%
																					PH-6	2.5% SED
0745	7240			517	7.47	12	33.61									Ø	127.30					
0800	7584			517	9.46	10	37.96	Foam Head in seperator decreased.								Ø	127.30				125,000	63.3%
																					PH-7	1.7% SED
0815	8205			496	9.71	8	37.94									2.24	129.54					
0830	8687	Rock Choke.		496	3.48	8	22.73									4.02	133.56				125,000	68%
0850	Rock Choke To Clear. Change orifice plate To 41.27mm																				PH-7	2.0% sed
0900	7487			482	21.91	6	41.89									1.83	135.39				125,000	68%
																					PH-7	2.0% sed
0915	7150			482	14.44	6	34.00									5.35	140.74					
0930	7446			482	13.94	10	33.18									2.83	143.57				125,000	68%
0940	Shut well in all tanks full of foam. Take two gas samples from seperator.																				PH-7	2.0% sed.

CUMM. PROD. SINCE (0445 Hrs.) April 14, 1995		LIQUID PRODUCTION: TANK #	TANK #
GAS PRODUCTION (4.5 Hrs.) 10.62 10E3m³		BALANCE: OIL H_2O	OIL
GAS PRODUCTION COMM. 10E3m³		OPENING GAUGE:	
LIQUID PRODUCTION (2345 Hrs.) April 13, 1995		PRODUCTION	
OIL m³ Water 143.57 m³		TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m³ Water 143.57 ³		CLOSING GAUGE:	

SOLID RESOURCES LTD.

FIELD DATA

CUSTOMER: Hunt Oil Company
WELL NAME: NFLD PROJECT #1
FLOWING (TUBING) CASING
TEST INTERVAL M

GAS TO: FLARE PIPELINE (VENT)
GAS GRAVITY H.S. . 60 L.S.

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DATE APRIL 14, 1995

JOB # 63
ZONE #3

TIME	WELLHEAD DATA			SEPARATOR GAS DATA				FLUID DATA															
				HS MR. 102.49 HS M. 1723		mm Orf. 47.62 X 99.6		Fl Meter # SIZE TK #		FACTOR TK #	OIL	Fl. Meter # Size TK #		FACTOR TK #	OIL	Fl. Meter # 5877 SIZE 2"		FACTOR 1.0000	H_2O	Fl. Meter # SIZE 50.8mm		FACTOR 1.0000	
S.I. UNITS	TUBE PRESS Pga/kPa			LS MR. LS M.		mm Orf. X		CAP		m^3 m^3/mm	OIL DATA	CAP 15.9 0.004901		m^3 m^3/mm		WATER DATA				SHIPPING		Salinity PPM	BS&W $\%H_2O$
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d		mm	m^3	Hrly. Prod. m^3	Comm. Prod. m^3		mm	m^3	Hrly. Water Prod. m^3	Comm. Water Prod. m^3		OIL SHP. m^3	WATER SHP. m^3	G.O.R.	TK. TEMP. DEG. C.
0700	change Gas Gravity To 0.60														%	—	116.47						
	13.09																						
0715	4826			482	37.35	12	73.02									7.32	123.79				128,000	67.5%
	decrease choke to			7.54	Producing to much foam in seperator. Increase back pressure.																PH-6	2.5% SED
0730	6205			517	8.71	12	36.30									3.51	127.30				128,000	67.5%
																					PH-6	2.5% sed
0745	7240			517	7.47	12	33.61									Ø	127.30					
0800	7584			517	9.46	10	37.96		Foam Head in seperator decreased.							Ø	127.30				128,000	63.3%
																					PH-7	1.7% SED
0815	8205			496	9.71	8	37.94									2.24	129.54					
0830	8687	Rock	Choke.	496	3.48	8	22.73									4.02	133.56				128,000	68%
0850	Rock	Choke	To Clear.	Change orface plate to 41.27mm																	PH-7	2.0% sed
0900	7487			482	21.91	6	41.89									1.83	135.39				128,000	68%
																					PH-7	2.0% sed
0915	7150			482	14.44	6	34.00									5.35	140.74					
0930	7446			482	13.94	10	33.18									2.83	143.57				128,000	68%
0940	Shut well in all tanks full of foam. Take two gas Samples from seperator.																				PH-7	2.0% sed

CUMM. PROD. SINCE (0345 Hrs.) April 14, 1995		LIQUID PRODUCTION:	TANK #
GAS PRODUCTION (4.5 Hrs.) 10.62	$10E3m^3$	BALANCE: OIL	H_2O
GAS PRODUCTION COMM.	$10E3m^3$	OPENING GAUGE:	
LIQUID PRODUCTION (2345 Hrs.) April 13, 1995		PRODUCTION	
OIL m^3 Water 143.57		TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m^3 Water 143.57		CLOSING GAUGE:	

SOLID RESOURCES LTD.

FIELD DATA

CUSTOMER: Hunt Oil Company
WELL NAME: Port Au Port #1

PAGE 22 JOB # 63
DATE April 14, 1995 ZONE 3

FLOWING: TUBING CASING
TEST INTERVAL M

GAS TO: FLARE PIPELINE VENT
GAS GRAVITY H.S. .60 L.S.

TIME	WELLHEAD DATA			SEPARATOR GAS DATA				FLUID DATA															
				HS MR. 102.49 mm Orf. HS M. 1723 x 99.6				Fl Meter # OIL SIZE FACTOR TK # TK #				Fl. Meter # OIL Size FACTOR TK # TK #				Fl. Meter # H_2O SIZE FACTOR				Fl. Meter # SIZE FACTOR			
S.I. UNITS	TUBE PRESS Pga/kPa			LS MR. LS M. mm Orf. X				CAP m^3 m^3/mm			OIL DATA		CAP 15.9 0.004501 m^3 m^3/mm			WATER DATA			SHIPPING		Salinity PPM	BS&W $\%H_2O$
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d		mm	m^3	Hrly. Prod. m^3	Comm. Prod. m^3		mm	m^3	Hrly. Water Prod. m^3	Cumm. Water Prod. m^3		OIL SHP. m^3	WATER SHP. m^3	G.O.R.	TK. TEMP. DEG. C.
1100	10756	Buildups on tubing.																					
1115	11100																						
1130	11231																						
1145	11369																						
1200	11493																						
1215	11583																						
1230	11652																						
1245	11721																						
1300	11790																						
1315	11824																						

CUMM. PROD. SINCE (Hrs.)		LIQUID PRODUCTION: TANK #	TANK #
GAS PRODUCTION (Hrs.)	10E3m³	BALANCE: OIL H_2O	OIL
GAS PRODUCTION COMM.	10E3m³	OPENING GAUGE:	
LIQUID PRODUCTION (Hrs.)		PRODUCTION	
OIL m^3 Water	m^3	TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m^3 Water	m^3	CLOSING GAUGE:	

SOLID RESOURCES LTD.

FIELD DATA

CUSTOMER: Hunt Oil Company
WELL NAME: Port au Port #1

PAGE 23 JOB # 63
DATE April 14, 1995 ZONE 3

FLOWING: TUBING CASING GAS TO: FLARE PIPELINE VENT
TEST INTERVAL M GAS GRAVITY H.S. L.S.

TIME	WELLHEAD DATA			SEPARATOR GAS DATA				FLUID DATA															
				HS MR. 102.49 mm Orf. HS M. 1723 x 99.6				Fl Meter # OIL SIZE FACTOR TK # TK # CAP m³ m³/mm			OIL DATA		Fl. Meter # OIL Size FACTOR TK # TK # CAP 15.9 m³ 0.004501 m³/mm			Fl. Meter # H₂O SIZE FACTOR		Fl. Meter # SIZE FACTOR	WATER DATA			SHIPPING		Salinity PPM	BS&W %H₂O
S.I. UNITS	TUBE PRESS Pga/kPa			LS MR. mm Orf. LS M. X																			
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d		mm	m³	Hrly. Prod. m³	Comm. Prod. m³		mm	m³				Hrly. Water Prod. m³	Cumm. Water Prod. m³		OIL SHP. m³	WATER SHP. m³	G.O.R.	TK. TEMP. DEG. C.
1330	11824	Build ups	on tubing																				
1345	11845																						
1400	11990																						
1415	11990																						
1430	11962																						
1445	11928																						
1500	11859																						
1515	11838																						
1530	11839																						
1545	12204																						

CUMM. PROD. SINCE (Hrs.)		LIQUID PRODUCTION: TANK #	TANK #
GAS PRODUCTION (Hrs.)	10E3m³	BALANCE: OIL H_2O	OIL
GAS PRODUCTION COMM.	10E3m³	OPENING GAUGE:	
LIQUID PRODUCTION (Hrs.)		PRODUCTION	
OIL m³ Water	m³	TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m³ Water	m³	CLOSING GAUGE:	

SOLID RESOURCES LTD.

FIELD DATA

CUSTOMER: Hunt oil Company
WELL NAME: Port Au Port #1

PAGE 24
DATE April 14, 1995

JOB # 63
ZONE 3

FLOWING (TUBING) CASING
TEST INTERVAL M

GAS TO (FLARE) PIPELINE VENT
GAS GRAVITY H.S. . 60 L.S.

TIME	WELLHEAD DATA			SEPARATOR GAS DATA				FLUID DATA														
				HS MR. 102.49 HS M. 1723		mm Orf. 41.27 x 99.6		Fl Meter # SIZE TK #		OIL FACTOR TK #		Fl. Meter # Size TK #		OIL FACTOR TK #		Fl. Meter # SIZE		H_2O FACTOR		Fl. Meter # SIZE		FACTOR
S.I. UNITS	TUBE PRESS Pga/kPa			LS MR. LS M.		mm Orf. X		CAP		m^3 m^3/mm	OIL DATA	CAP 15.9 0.004501		m^3 m^3/mm	WATER DATA			SHIPPING		Salinity PPM	BS&W $\%H_2O$	
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d		mm	m^3	Hrly. Prod. m^3	Comm. Prod. m^3		mm	m^3	Hrly. Water Prod. m^3	Cumm. Water Prod. m^3		OIL SHP. m^3	WATER SHP. m^3	G.O.R.	TK. TEMP. DEG. C.
1600	12224	Buildups																				
1615	12238																					
1630	12259																					
1645	12273																					
1700	12306																					
1730	12300	Open well		on	7.54 mm																	
1735	7288		METER IN SERVICE				41.27 mm	ORFACE PLATE														
1745	6391	9		1427	17.43	5	60.55															
1800	5253	10		1434	11.95	5	50.26									5.80	5.80				190.27 PH-7	50% oil 3% sed
1818	Increase	choke to		11.11 mm																		

CUMM. PROD. SINCE (Hrs.)		LIQUID PRODUCTION:	TANK #
GAS PRODUCTION (Hrs.)	$10E3m^3$	BALANCE: OIL	H_2O
GAS PRODUCTION COMM.	$10E3m^3$	OPENING GAUGE:	
LIQUID PRODUCTION (Hrs.)		PRODUCTION	
OIL m^3	Water m^3	TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m^3	Water m^3	CLOSING GAUGE:	

SOLID RESOURCES LTD.

FIELD DATA

CUSTOMER: Hunt Oil Company
WELL NAME: Port au Port #1

PAGE 25 JOB # 63
DATE April 14, 1995 ZONE 3

FLOWING (TUBING) CASING GAS TO (FLARE) PIPELINE VENT
TEST INTERVAL M GAS GRAVITY H.S. .60 L.S.

TIME	WELLHEAD DATA			SEPARATOR GAS DATA				FLUID DATA																
				HS MR. 102.49 HS M. 1723		mm Orf. 41.27 X 99.6		Fl Meter # SIZE TK #		OIL FACTOR TK #		Fl. Meter # Size TK #		OIL FACTOR TK #		Fl. Meter # SIZE		H_2O FACTOR		Fl. Meter # SIZE		FACTOR		
S.I. UNITS	TUBE PRESS Pga/kPa			LS MR. LS M.		mm Orf. X		CAP		m^3 m^3/mm	OIL DATA		CAP 64.0 0.01043		m^3 m^3/mm	WATER DATA			SHIPPING		Salinity PPM	BS&W $\%H_2O$		
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d		mm	m^3	Hrly. Prod. m^3	Comm. Prod. m^3		mm	m^3	Hrly. Water Prod. m^3	Comm. Water Prod. m^3		OIL SHP. m^3	WATER SHP. m^3	G.O.R.	TK. TEMP. DEG. C.		
	11.11												0/6			—	5.80						
1830	5171	14		1399	3.98	B	28.53									14.51	20.31				198222	20% oil		
																					PH-7	3% SED		
1840	Flowline out of Service															4.07	24.38							
1900	5929	15		1406	43.82	8	94.85									11.67	36.05				195,556	50% oil		
																					PH-7	1% sed		
1930	5957	16		1399	52.29	10	103.01									6.10	42.15				176,000	40% oil		
																					PH-7	1% sed		
2000	5846	17		1427	51.54	9	101.74									2.65	44.80				176,000	55% oil		
																					PH-7	0.6% SED		
2030	5681	14		1379	49.30	9	99.51									10.89	55.39				179,556	62% oil		
																					PH-7	0.4% sed		
2100	5522	16		1399	43.32	9	93.93									7.95	63.34				184,889	65% oil		
																					PH-7	1.5% sed		
2130	5343	17		1406	41.33	9	91.96									7.95	71.29				193,778	65% oil		
																					PH-7	20% sed		
2200	5240	17		1413	43.82	9	94.90									3.97	75.26				192,334	70% oil		
																API =	49.9 @	15.6 °C			PH-7	1.0% sed		

CUMM. PROD. SINCE (Hrs.)		LIQUID PRODUCTION:	TANK # / TANK #
GAS PRODUCTION (Hrs.)	10E3m³	BALANCE:	OIL H_2O / OIL
GAS PRODUCTION COMM.	10E3m³	OPENING GAUGE:	
LIQUID PRODUCTION (Hrs.)		PRODUCTION	
OIL m^3	Water m^3	TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m^3	Water m^3	CLOSING GAUGE:	

SOLID RESOURCES LTD.

FIELD DATA

CUSTOMER: HunT OiL Company
WELL NAME: PorT AU PORT #1

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DATE APRIL 14, 1995 ZONE 3

FLOWING (TUBING) CASING GAS TO (FLARE) PIPELINE VENT
TEST INTERVAL M GAS GRAVITY H.S. .60 L.S.

TIME	WELLHEAD DATA			SEPARATOR GAS DATA				FLUID DATA															
				HS MR. 102.49 mm Orf. 41.27 HS M. 1783 x 99.6				Fl Meter # OIL SIZE FACTOR TK # TK #				Fl. Meter # OIL Size FACTOR TK # TK #				Fl. Meter # H_2O SIZE FACTOR				Fl. Meter # SIZE FACTOR			
S.I. UNITS	TUBE PRESS Pga/kPa			LS MR. LS M. mm Orf. X				CAP m^3 m^3/mm			OIL DATA		CAP 64 m^3 0.01043 m^3/mm			WATER DATA			SHIPPING		Salinity PPM	BS&W $\%H_2O$
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d		mm	m^3	Hrly. Prod. m^3	Comm. Prod. m^3		mm	m^3	Hrly. Water Prod. m^3	Cumm. Water Prod. m^3		OIL SHP. m^3	WATER SHP. m^3	G.O.R.	TK. TEMP. DEG. C.
	11.11										0/6					0/6	75.26					
2230	5171	17		1406	40.33	9	90.84									10.6	85.86				209,889	70% oil
																					PH-7	3.5% sed
2300	5033	17		1406	32.86	9	82.00									14.04	99.90				209,667	70% oil
																					PH-7	2.5% sed
2330	4964	17		1420	40.08	9	90.97									10.33	110.23				209,445	70% oil
																					PH-7	2% sed
2400	4757	17		1434	38.84	9	89.96									13.78	124.01				209,445	70% oil
	APRIL	15,19	95																		PH-7	2% sed
0030	4757	17		1434	37.84	9	88.80									3.18	127.19				213,334	70% oil
																					PH-7	2% sed
0100	4702	17		1461	39.34	9	91.34									14.83	142.02				213,334	70% oil
																					PH-7	2% sed
0130	4688	17		1441	37.84	9	88.99									11.13	153.15				213,334	70% oil
																					PH-7	3% sed
0200	4647	17		1441	32.86	9	82.93									6.89	160.04				213,334	70% oil
																					PH-7	1.0% sed
0230	4633	17		1441	31.37	9	81.03									13.51	173.55				213,334	70% oil
	SHUT WELL IN AND RUN RECORDERS																				PH-7	1.0% sed

CUMM. PROD. SINCE (1730 Hrs.) April 14, 1995		LIQUID PRODUCTION:	TANK #
GAS PRODUCTION (9 Hrs.) 31.70 10E3m³		BALANCE: OIL H_2O	OIL
GAS PRODUCTION COMM. 10E3m³		OPENING GAUGE:	
LIQUID PRODUCTION (Hrs.)		PRODUCTION	
OIL m^3 Water 173.55 m^3		TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m^3 Water 173.55 m^3		CLOSING GAUGE:	

SOLID RESOURCES LTD.

FIELD DATA

CUSTOMER: HUNT OIL COMPANY
WELL NAME: PORT AU PORT #1

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DATE APRIL 15, 1995 ZONE 3

FLOWING (TUBING) CASING GAS TO (FLARE) PIPELINE VENT
TEST INTERVAL M GAS GRAVITY H.S. .60 L.S.

TIME	WELLHEAD DATA			SEPARATOR GAS DATA				FLUID DATA														
				HS MR. 102.49 HS M. 1723		mm Orf. 41.27 X 99.6		Fl Meter # SIZE TK #		OIL FACTOR TK #		Fl. Meter # Size TK #		OIL FACTOR TK #		Fl. Meter # SIZE		H_2O FACTOR		Fl. Meter # SIZE		FACTOR
S.I. UNITS	TUBE PRESS Pga/kPa			LS MR. LS M.		mm Orf. X		CAP		m^3 m^3/mm	OIL DATA		CAP 64 0.01043		m^3 m^3/mm	WATER DATA			SHIPPING		Salinity PPM	BS&W $\%H_2O$
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d		mm	m^3	Hrly. Prod. m^3	Comm. Prod. m^3		mm	m^3	Hrly. Water Prod. m^3	Cumm. Water Prod. m^3		OIL SHP. m^3	WATER SHP. m^3	G.O.R.	TK. TEMP. DEG. C.
0550	10838	OPEN WELL ON		SINGLE POINT TEST					10.32	mm						—	Ø					
	10.32																					
0555	6067	METER IN		SERVICE		41.27	mm ORFACE PLATE.															
0600	5522	10		1385	39.34	2	90.22									Ø	Ø					
0630	4481	11		1379	30.87	6	7917									5.02	5.02				234,000	35% oil
	Decrease Choke			9.52	mm																PH-7	1.0% sed
0700	5309	15		1379	30.63	10	78.29									14.31	19.33				241,778	35% oil
																					PH-7	1.3% sed
0730	5481	16		1379	49.8	10	99.83									12.46	31.79				231,111	70% oil
																					PH-7	0.1% sed
0800	5350	16		1379	41.33	10	90.95									3.18	34.97				240,000	70% oil
																					PH-7	1.0% sed
0830	5253	16		1379	36.35	9	85.45									9.54	44.51				240,000	70% oil
																					PH-7	1.2% sed
0900	5198	16		1379	31.37	9	79.38									9.53	54.04				240,000	70% OIL
																					PH-7	1.2% SED
0930	5102	16		1372	33.11	9	81.36									8.48	62.52				240,000	70% oil
																					PH-7	0.2% SED

CUMM. PROD. SINCE (Hrs.)		LIQUID PRODUCTION: TANK #	TANK #
GAS PRODUCTION (Hrs.)	10E3m³	BALANCE: OIL H_2O	OIL
GAS PRODUCTION COMM.	10E3m³	OPENING GAUGE:	
LIQUID PRODUCTION (Hrs.)		PRODUCTION	
OIL m^3 Water	m^3	TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m^3 Water	m^3	CLOSING GAUGE:	

SOLID RESOURCES LTD.

FIELD DATA

CUSTOMER: Hunt Oil Company
WELL NAME: Port Au Port #1

PAGE 28 JOB # 63
DATE APRIL 15, 1995 ZONE 3

FLOWING: (TUBING) CASING TEST INTERVAL M

GAS TO: (FLARE) PIPELINE VENT
GAS GRAVITY H.S. . 60 L.S.

TIME	WELLHEAD DATA			SEPARATOR GAS DATA			
				HS MR. 102.49 mm Orf. 41.27 HS M. 1723 x 99.6			
S.I. UNITS	TUBE PRESS Pga/kPa			LS MR. mm Orf. LS M. X			
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d
	9.52						
1000	5102	16		1351	22.90	9	67.19
1030	5102	16		N/A	N/A	9	N/A
	Back Pressure Supply hose came loose and Released Back pressure						
1100	4936	16		1379	35.85	9	84.86
1130	4860	16		1379	34.86	9	83.67
1200	4805	16		1379	34.86	9	83.67

FLUID DATA

Fl Meter # OIL SIZE FACTOR TK # TK #
CAP m³ m³/mm

Fl. Meter # OIL Size FACTOR TK # TK #
CAP 64.0 m³ 0.01043 m³/mm

Fl. Meter # H_2O SIZE FACTOR
Fl. Meter # SIZE FACTOR

OIL DATA								WATER DATA			SHIPPING				
			Hrly. Prod. m³	Comm. Prod. m³				Hrly. Water Prod. m³	Comm. Water Prod. m³		OIL SHP. m³	WATER SHP. m³	Salinity PPM / G.O.R.	BS&W %H_2O / TK. TEMP. DEG. C.
	mm	m³				mm	m³							
								0/G	62.52					
								5.57	68.09				240000	70% oil
													PH-8	0.1% sed
								7.55	75.64				240,000	70% oil
													PH-7	0.1% sed
								7.55	83.19				240,000	70% oil
													PH-7	01% sed
								9.28	92.47				243,556	70% oil
													PH-8	0.2% sed
								5.29	97.76				248,889	75% oil
													PH-7	0.2% sed

CUMM. PROD. SINCE (Hrs.)		LIQUID PRODUCTION: TANK #	TANK #
GAS PRODUCTION (Hrs.)	10E3m³	BALANCE: OIL H_2O	OIL
GAS PRODUCTION COMM.	10E3m³	OPENING GAUGE:	
LIQUID PRODUCTION (Hrs.)		PRODUCTION	
OIL m³ Water	m³	TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m³ Water	m³	CLOSING GAUGE:	

SOLID RESOURCES LTD.

FIELD DATA

CUSTOMER: Hunt Oil Company
WELL NAME: Port au Port #1

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DATE APRIL 15, 1995 ZONE 3

FLOWING (TUBING) CASING GAS TO (FLARE) PIPELINE VENT
TEST INTERVAL M GAS GRAVITY H.S. .60 L.S.

TIME	WELLHEAD DATA			SEPARATOR GAS DATA				FLUID DATA															
				HS MR. 102.49 mm Orf. 41.27 HS M. 1723 X 99.6				Fl Meter # OIL SIZE FACTOR TK # TK #				Fl. Meter # OIL Size FACTOR TK # TK #				Fl. Meter # H_2O SIZE FACTOR				Fl. Meter # SIZE FACTOR			
S.I. UNITS	TUBE PRESS Pga/kPa			LS MR. mm Orf. LS M. X				CAP m^3 m^3/mm	OIL DATA			CAP 64 m^3 0.01043 m^3/mm				WATER DATA			SHIPPING		Salinity PPM	BS&W $\%H_2O$	
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d		mm	m^3	Hrly. Prod. m^3	Comm. Prod. m^3		mm	m^3	Hrly. Water Prod. m^3	Cumm. Water Prod. m^3		OIL SHP. m^3	WATER SHP. m^3	G.O.R.	TK. TEMP. DEG. C.	
	9.52															0/6	97.76						
1230	4757	16		1379	34.36	9	83.07		Hold Fluid in seperator for Lab samples.							0	97.76				248,889	75% oil	
																	API =	49.5 @ 15.6°C			PH-7	0.1% sed	
1245	Core labs	has taken Samples,		dump Seperator					and shut well in. Begin Buildups.							6.37	104.13						
1300	8205																						
1315	8804																						
1330	9273																						
1400	9494																						
1430	9852																						
1500	10066																						
1530	10507																						
1600	10721																						

CUMM. PROD. SINCE (0550 Hrs.) APRIL 15, 1995		LIQUID PRODUCTION: TANK #	TANK #
GAS PRODUCTION (7 Hrs.) 24.39 10E3m³		BALANCE: OIL H_2O	OIL
GAS PRODUCTION COMM. 10E3m³		OPENING GAUGE:	
LIQUID PRODUCTION (7 Hrs.) APRIL 15, 1995		PRODUCTION	
OIL m³ Water 104.13 m³		TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m³ Water 104.13 m³		CLOSING GAUGE:	

SOLID RESOURCES LTD.

FIELD DATA

CUSTOMER: Hunt Oil Company
WELL NAME: Port AU Port #1

PAGE 30 JOB # 63
DATE April 15, 1995 ZONE 3

FLOWING: TUBING CASING GAS TO: FLARE PIPELINE VENT
TEST INTERVAL M GAS GRAVITY H.S. L.S.

HS MR. 102.49 mm Orf.
HS M. 1723 X 99.6

LS MR. mm Orf.
LS M. X

Fl Meter # OIL
SIZE FACTOR
TK # TK #

Fl. Meter # OIL
Size FACTOR
TK # TK #

Fl. Meter # H_2O
SIZE FACTOR

Fl. Meter #
SIZE FACTOR

CAP m^3 m^3/mm

CAP 64.0 m^3
0.01043 m^3/mm

TIME	WELLHEAD DATA			SEPARATOR GAS DATA				FLUID DATA															
S.I. UNITS	TUBE PRESS Pga/kPa										OIL DATA						WATER DATA			SHIPPING		Salinity PPM	BS&W $\%H_2O$
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d		mm	m^3	Hrly. Prod. m^3	Comm. Prod. m^3		mm	m^3	Hrly. Water Prod. m^3	Cumm. Water Prod. m^3		OIL SHP. m^3	WATER SHP. m^3	G.O.R.	TK. TEMP. DEG. C.
1630	10997	Continue		build ups.																			
1700	11056																						

CUMM. PROD. SINCE (Hrs.)		LIQUID PRODUCTION: TANK #	TANK #
GAS PRODUCTION (Hrs.)	10E3m^3	BALANCE: OIL H_2O	OIL
GAS PRODUCTION COMM.	10E3m^3	OPENING GAUGE:	
LIQUID PRODUCTION (Hrs.)		PRODUCTION	
OIL m^3 Water m^3		TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m^3 Water m^3		CLOSING GAUGE:	

SOLID RESOURCES LTD.

FIELD DATA

CUSTOMER: Hunt Oil Company
WELL NAME: Port Au Port #1

PAGE 31 JOB # 63
DATE APRIL 15, 1995 ZONE 3
FLOWING: TUBING CASING
TEST INTERVAL M
GAS TO: FLARE PIPELINE VENT
GAS GRAVITY H.S. L.S.

HS MR. 102.49 mm Orf.
HS M. 1723 x 99.6
LS MR. mm Orf.
LS M. X

Fl Meter # OIL
SIZE FACTOR
TK # TK #

Fl. Meter # OIL
Size FACTOR
TK # TK #

Fl. Meter # H_2O
SIZE FACTOR

Fl. Meter #
SIZE FACTOR

CAP m³ m³/mm
CAP 64 0.01043 m³ m³/mm

TIME	WELLHEAD DATA			SEPARATOR GAS DATA				OIL DATA							WATER DATA			SHIPPING			
S.I. UNITS	TUBE PRESS Pga/kPa																			Salinity PPM	BS&W $\%H_2O$
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d		mm	m³	Hrly. Prod. m³	Comm. Prod. m³		mm	m³	Hrly. Water Prod. m³	Cumm. Water Prod. m³		OIL SHP. m³	WATER SHP. m³	G.O.R.	TK. TEMP. DEG. C.
1730	11357																				
1800	11569																				
1830	11707																				
1900	11893																				
1930	11969																				
2000	12045																				
2030	12135																				
2100	12238																				
2130	12273																				
2200	12342																				

CUMM. PROD. SINCE (Hrs.)		LIQUID PRODUCTION: TANK #	TANK #
GAS PRODUCTION (Hrs.)	10E3m³	BALANCE: OIL H_2O	OIL
GAS PRODUCTION COMM.	10E3m³	OPENING GAUGE:	
LIQUID PRODUCTION (Hrs.)		PRODUCTION	
OIL m³ Water	m³	TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m³ Water	m³	CLOSING GAUGE:	

SOLID RESOURCES LTD.

FIELD DATA

CUSTOMER: HUNT OIL COMPANY
WELL NAME: PORT AU PORT

PAGE 32 JOB # 63
DATE APRIL 16, 95 ZONE 3

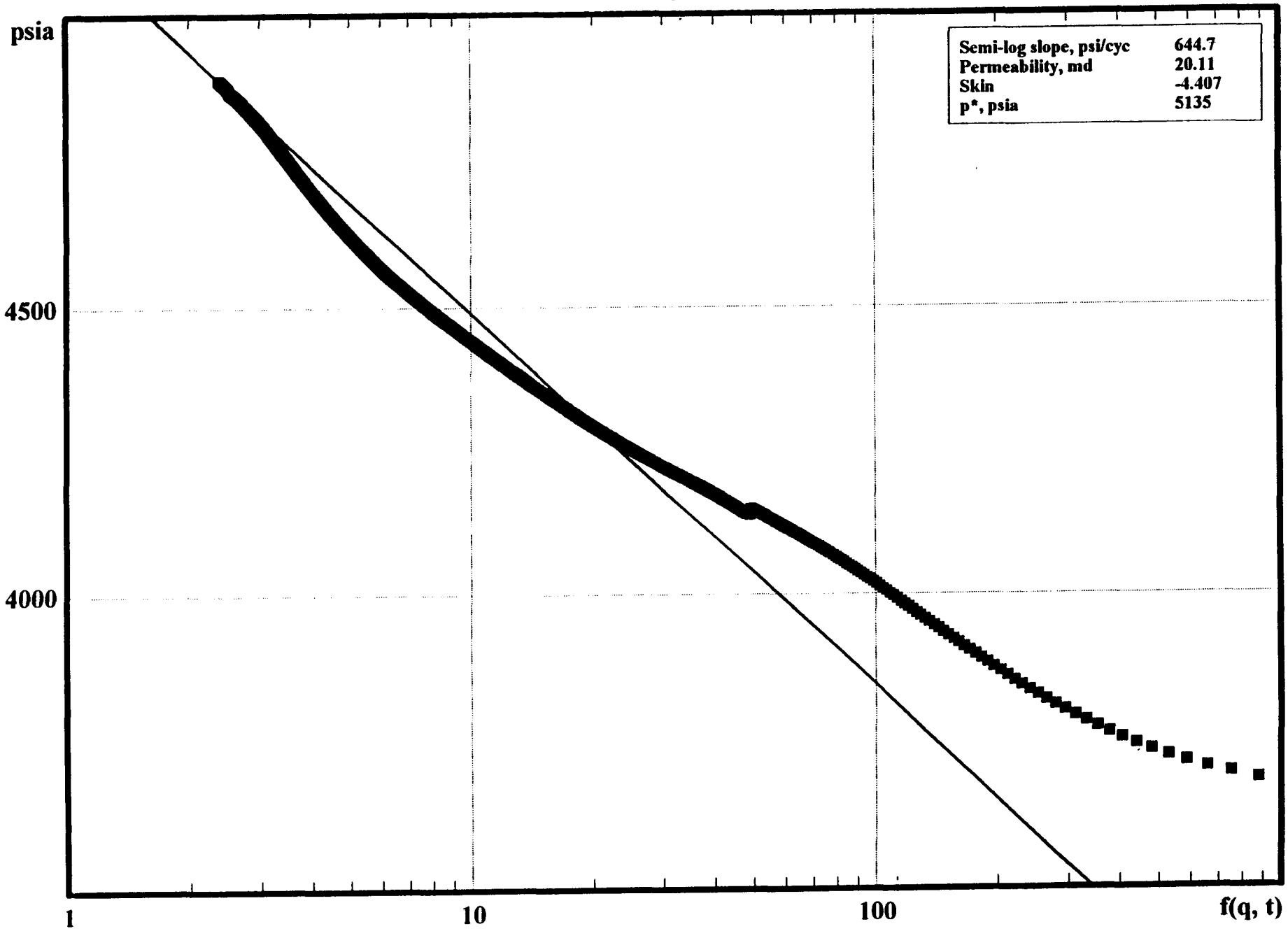
FLOWING: TUBING CASING GAS TO: FLARE PIPELINE VENT
TEST INTERVAL M GAS GRAVITY H.S. .60 L.S.

TIME	WELLHEAD DATA			SEPARATOR GAS DATA				FLUID DATA																
	Buildups			HS MR. 102.49 HS M. 1723		mm Orf. x 99.6		Fl Meter # SIZE TK #		OIL FACTOR TK #		Fl. Meter # Size TK #		OIL FACTOR TK #		Fl. Meter # SIZE		H_2O FACTOR		Fl. Meter # SIZE		FACTOR		
S.I. UNITS	TUBE PRESS Pga/kPa			LS MR. LS M.		mm Orf. X		CAP		m^3 m^3/mm	OIL DATA			CAP		m^3 m^3/mm	WATER DATA			SHIPPING			Salinity PPM	BS&W $\%H_2O$
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d		mm	m^3	Hrly. Prod. m^3	Comm. Prod. m^3			mm	m^3	Hrly. Water Prod. m^3	Cumm. Water Prod. m^3		OIL SHP. m^3	WATER SHP. m^3	G.O.R.	TK. TEMP. DEG. C.
2230	12411																							
2300	12411																							
2330	12417																							
2400	12411																							
	APRIL	16,1995																						
0025	12411																							
0027	SHUT IN WELL FOR WIRE LINE TO PULL RECORDERS																							

CUMM. PROD. SINCE (Hrs.)		LIQUID PRODUCTION: TANK #	TANK #
GAS PRODUCTION (Hrs.)	10E3m³	BALANCE: OIL H_2O	OIL
GAS PRODUCTION COMM.	10E3m³	OPENING GAUGE:	
LIQUID PRODUCTION (Hrs.)		PRODUCTION	
OIL m³ Water	m³	TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m³ Water	m³	CLOSING GAUGE:	

Test #3 - Cape Cormorant Zone - 11,390'-11,405'

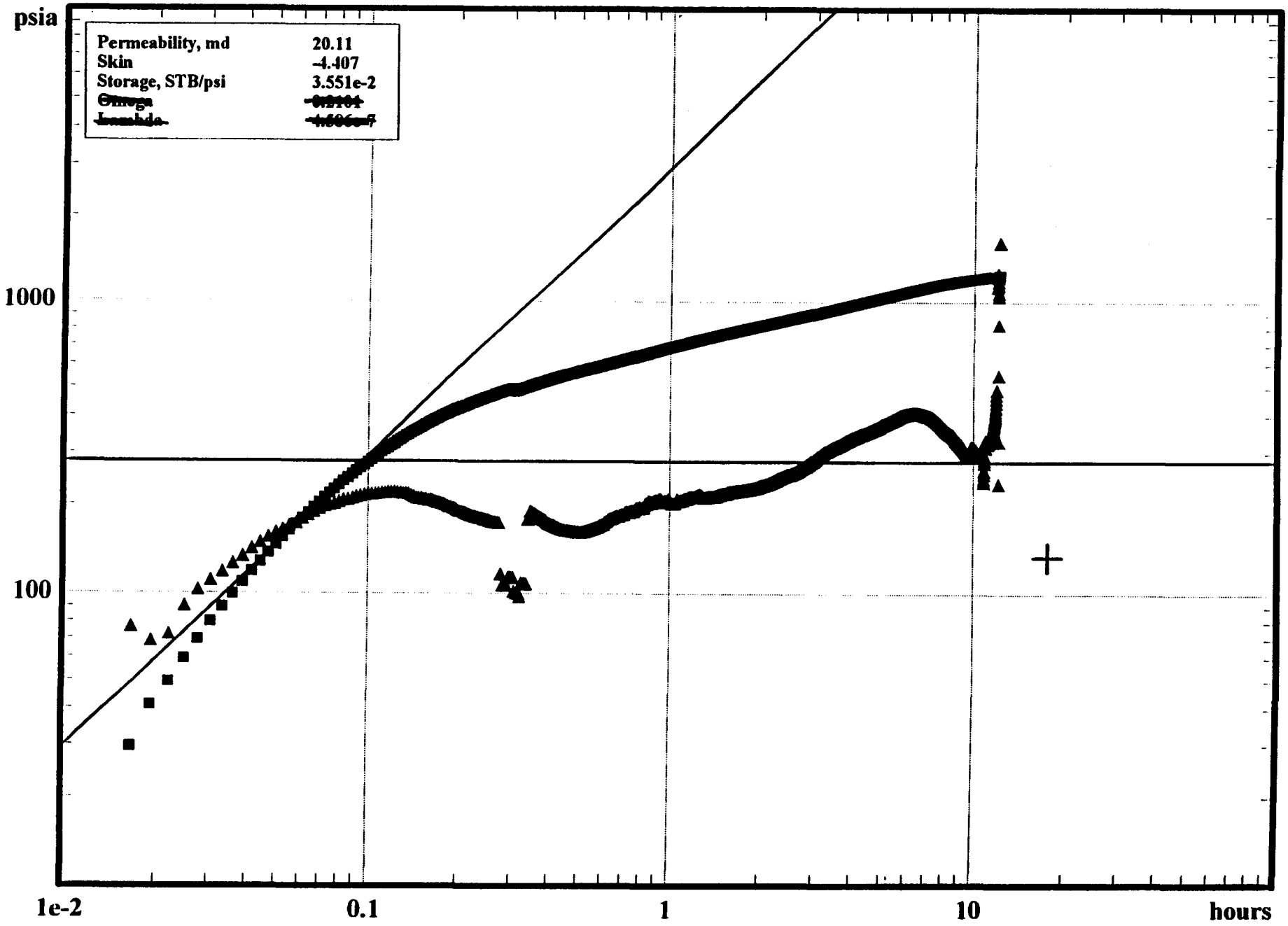
Variable rate Horner plot (pressure & time)



15' Kh=301

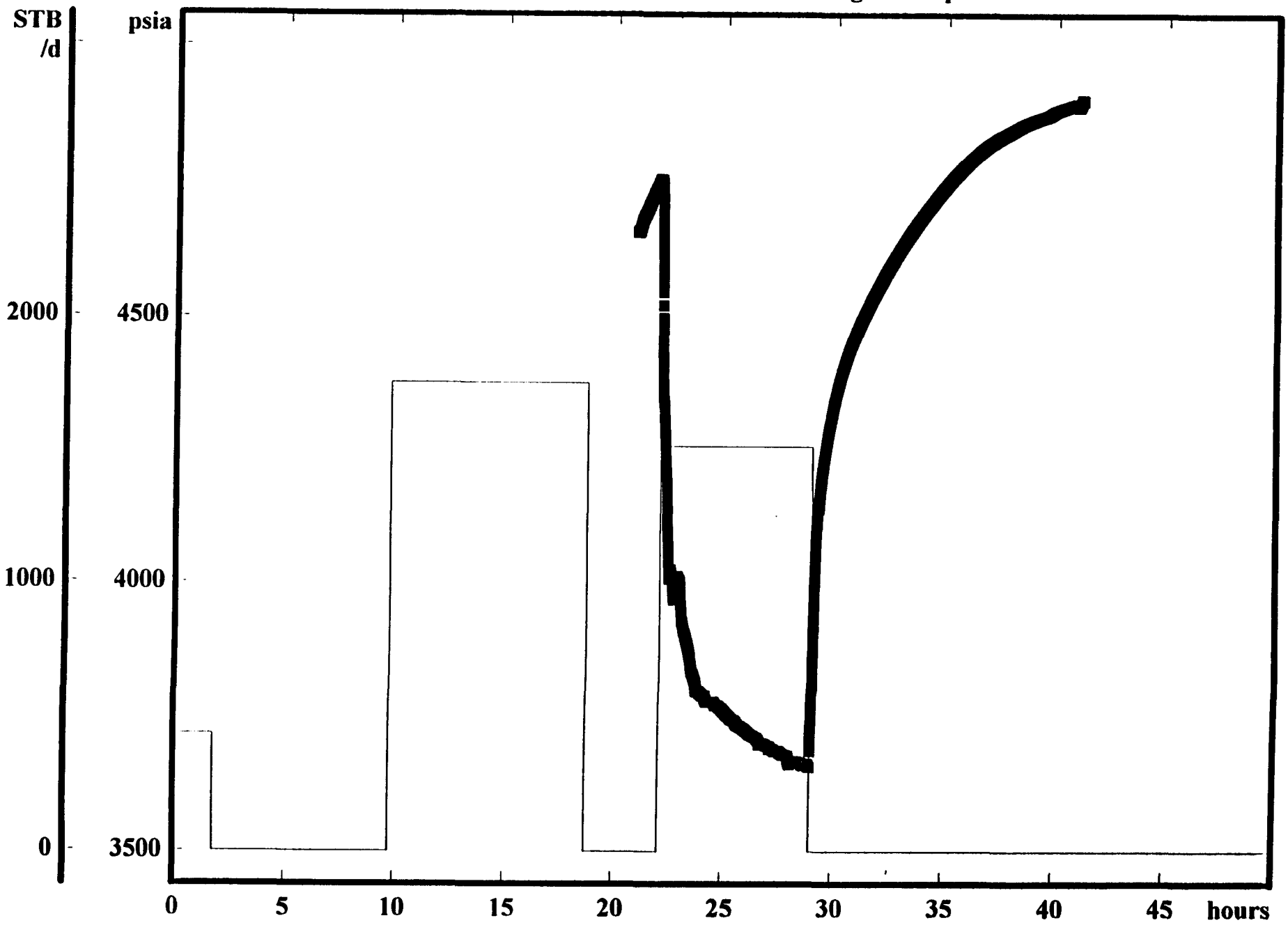
Test #3 - Cape Cormorant Zone - 11,390'-11,405'

Diagnostic plot (pressure & time)



Test #3 - Cape Cormorant Zone - 11,390'-11,405'

Pressure and flow rate vs time during test sequence



Well Test Report

MGI Demo Copy (exp May 15)

Port au Port #1

Test #3 - Cape Cormorant Zone - 11,390'-11,405'

Test description

Test run on	**Test run by**
Number of gauges used	**Gauge location(s)**
Gauge ID(s)	**Rates obtained by**

MGI Demo Copy (exp May 15)

Port au Port #1

Test #3 - Cape Cormorant Zone - 11,390'-11,405'

Completion description

Field	**Zone/Sand**
Well Spacing	**Gathering Station**
Measured depth	**Vertical depth**
Tubing Size	**Casing Size**
Length of tubing	**Packer depth/type**
Perf. intervals	**Perf. density**
Perf. gun type	**Perf. underbalance**
Perforated by	**on date**
Fractured by	**on date**

Reservoir properties

Porosity	**8e-2 frac**	**Formation thickness**	**15 ft**
Wellbore radius	**0.34998 ft**	**Prod-observer distance**	
Water-Oil Contact		**Gas-Oil Contact**	
Gas-Water Contact		**Rock compressibility**	
Reservoir temperature	**128 deg F**	**Pressure for properties**	**5200 psia**

Interpretation results for Page 1

Estimated parameters	
Storage, STB/psi	3.551e-2
Skin	-4.407
Permeability, md	20.11
Omega	0.2101
Lambda	4.586e-7
Init pressure, psia	4949

Model

Storage and skin well model
Double-porosity transient
Infinite-acting

Test #3 - Cape Cormorant Zone - 11,390'-11,405'

Flow Rate Data - hours, STB/d

0	433
1.749999	0
9.749999	1753
18.74999	0
22.08609	1511
28.98059	0

Well Test Report

MGI Demo Copy (exp May 15)

Port au Port #1

Test #3 - Cape Cormorant Zone - 11,390'-11,405'

Pressure Data - hours, psia

20.94999	4657.042	21.38059	4698.928	21.95279	4750.334
20.95279	4657.443	21.39449	4700.171	21.96389	4751.344
20.95559	4657.549	21.40829	4701.487	21.97779	4752.443
20.95829	4657.415	21.41949	4702.553	21.99169	4753.615
20.96109	4657.917	21.43329	4703.843	22.00559	4751.261
20.96389	4657.895	21.44449	4704.92	22.00829	4727.867
20.96669	4657.929	21.45559	4705.995	22.01109	4733.95
20.96949	4658.153	21.46669	4707.04	22.01389	4736.018
20.97219	4657.882	21.47779	4708.049	22.01669	4737.593
20.97499	4657.885	21.48889	4709.138	22.01949	4738.773
20.97779	4657.949	21.5	4710.173	22.02499	4740.344
20.98059	4656.953	21.51109	4711.174	22.03059	4741.626
20.98889	4659.406	21.52219	4712.204	22.03609	4743.038
20.99169	4659.215	21.53329	4713.202	22.04169	4744.196
20.99449	4657.82	21.54449	4714.211	22.04719	4745.3
20.99719	4658.01	21.55559	4715.258	22.05279	4746.46
21	4658.277	21.56669	4716.275	22.06109	4747.858
21.00279	4658.328	21.58059	4717.535	22.06949	4749.149
21.00559	4658.215	21.59169	4718.536	22.07779	4750.369
21.01109	4658.467	21.60279	4719.58	22.08609	4751.593
21.01669	4659.21	21.61389	4720.56	22.1	4745.511
21.02219	4660.081	21.62499	4721.587	22.10279	4738.745
21.02779	4660.363	21.63609	4722.591	22.10559	4730.005
21.03329	4660.769	21.64999	4723.782	22.10829	4718.765
21.03889	4661.341	21.66109	4724.867	22.11109	4704.946
21.04719	4662.336	21.67499	4726.038	22.11389	4691.75
21.05829	4663.891	21.68889	4727.245	22.11669	4677.642
21.08059	4667.206	21.7	4728.279	22.11949	4665.192
21.09719	4670.043	21.71109	4729.273	22.12219	4653.007
21.11389	4673.204	21.72499	4730.451	22.12499	4639.204
21.13059	4675.858	21.73609	4731.477	22.12779	4623.086
21.14719	4677.934	21.74999	4732.665	22.13059	4608.201
21.16389	4679.658	21.76389	4733.843	22.13329	4594.023
21.18059	4681.355	21.77499	4734.837	22.13609	4583.27
21.19719	4682.952	21.78889	4736.032	22.13889	4570.701
21.21389	4684.406	21.80279	4737.191	22.14169	4558.475
21.23059	4685.769	21.81669	4738.436	22.14449	4547.034
21.24719	4687.203	21.83059	4739.669	22.14719	4522.829
21.26389	4688.494	21.84449	4740.865	22.14999	4499.255
21.28059	4689.903	21.85829	4742.086	22.15279	4478.274
21.29719	4691.341	21.87219	4743.293	22.15559	4461.889
21.31109	4692.572	21.88609	4744.483	22.15829	4450.832
21.32499	4693.814	21.9	4745.71	22.16109	4446.105
21.33889	4695.037	21.91389	4746.927	22.16389	4440.942
21.35279	4696.34	21.92499	4747.922	22.16669	4433.922
21.36669	4697.648	21.93889	4749.145	22.16949	4427.083

Pressure Data - hours, psia (continued)

22.17219	4420.657	22.32219	4244.518	22.45279	4086.334
22.17499	4414.729	22.32499	4239.71	22.45559	4083.971
22.17779	4406.775	22.32779	4235.311	22.45829	4081.568
22.18059	4399.655	22.33059	4231.194	22.46109	4079.219
22.18329	4392.95	22.33329	4227.982	22.46389	4076.2
22.18609	4386.7009	22.33609	4225.038	22.46669	4071.78
22.18889	4380.078	22.33889	4222.377	22.46949	4067.2009
22.19169	4374.214	22.34169	4219.943	22.47219	4063.32
22.19449	4368.936	22.34449	4217.237	22.47499	4060.104
22.19719	4364.183	22.34719	4214.501	22.47779	4057.544
22.2	4359.726	22.34999	4211.634	22.48059	4055.139
22.20279	4355.455	22.35279	4209.064	22.48329	4052.542
22.20559	4352.178	22.35559	4206.814	22.48609	4050.725
22.20829	4349.176	22.35829	4204.906	22.48889	4048.057
22.21109	4346.619	22.36109	4203.428	22.49169	4043.366
22.21389	4345.43	22.36389	4202.383	22.49449	4034.855
22.22779	4343.518	22.36949	4201.443	22.49719	4025.922
22.23609	4342.602	22.37219	4199.338	22.5	4017.465
22.24449	4341.292	22.37499	4196.723	22.50279	4010.808
22.24719	4339.519	22.37779	4194.562	22.50559	4007.86
22.24999	4337.37	22.38059	4192.149	22.51109	4011.374
22.25279	4334.739	22.38329	4190.868	22.51389	4013.463
22.25559	4331.357	22.38609	4189.834	22.51669	4015.388
22.25829	4327.585	22.38889	4188.404	22.51949	4017.105
22.26109	4323.701	22.39169	4187.287	22.52219	4018.312
22.26389	4319.501	22.39449	4185.638	22.52499	4019.751
22.26669	4314.798	22.39719	4183.281	22.52779	4020.981
22.26949	4310.239	22.4	4180.122	22.53889	4022.538
22.27219	4305.815	22.40279	4173.018	22.54999	4023.894
22.27499	4301.132	22.40559	4162.597	22.58059	4026.346
22.27779	4296.366	22.40829	4151.758	22.58329	4025.186
22.28059	4291.7009	22.41109	4140.9009	22.58609	4023.496
22.28329	4287.386	22.41389	4131.655	22.58889	4022.15
22.28609	4283.848	22.41669	4124.402	22.59169	4020.179
22.28889	4280.518	22.41949	4121.395	22.61389	4020.186
22.29169	4277.23	22.42219	4118.778	22.63059	4016.027
22.29449	4274.449	22.42499	4115.817	22.63609	4014.183
22.29719	4271.555	22.42779	4112.379	22.64169	4012.482
22.3	4268.974	22.43059	4108.963	22.64449	4011.115
22.30279	4266.511	22.43329	4105.492	22.64999	4009.033
22.30559	4263.892	22.43609	4101.994	22.65559	4007.689
22.30829	4260.832	22.43889	4098.916	22.65829	4006.541
22.31109	4258.415	22.44169	4095.658	22.66109	4005.447
22.31389	4255.197	22.44449	4092.528	22.66389	4004.067
22.31669	4251.895	22.44719	4090.423	22.66669	4002.745
22.31949	4248.579	22.44999	4088.425	22.66949	4001.495

Pressure Data - hours, psia (continued)

22.67219	4000.136	22.87499	4012.874	23.11949	3929.657
22.67499	3998.108	22.88059	4014.471	23.14719	3929.361
22.67779	3996.463	22.89719	4013.643	23.16389	3925.766
22.68059	3994.918	22.91389	4012.798	23.16669	3924.663
22.68329	3993.5009	22.93059	4009.954	23.16949	3923.562
22.68609	3992.05	22.94169	4008.85	23.17219	3922.51
22.68889	3990.455	22.96389	4007.602	23.17499	3921.434
22.69169	3988.836	22.97779	4006.368	23.18059	3919.728
22.69449	3987.254	22.99719	4005.9009	23.18609	3918.352
22.69719	3985.659	23.01389	4002.761	23.19169	3917.138
22.7	3983.889	23.01669	4001.082	23.19719	3916.037
22.70279	3982.425	23.01949	3999.212	23.20279	3914.925
22.70559	3981.044	23.02219	3997.3009	23.21109	3913.48
22.70829	3979.286	23.02499	3994.771	23.21949	3912.334
22.71109	3977.832	23.02779	3992.886	23.22779	3911.195
22.71389	3976.257	23.03059	3990.531	23.23609	3910.13
22.71669	3974.949	23.03329	3988.184	23.24449	3909.087
22.71949	3973.688	23.03609	3985.737	23.25279	3907.649
22.72219	3972.522	23.03889	3983.2009	23.26109	3906.478
22.72779	3970.466	23.04169	3980.429	23.26949	3905.163
22.74719	3970.237	23.04449	3977.863	23.27779	3903.936
22.76389	3971.134	23.04719	3975.002	23.28609	3902.746
22.78059	3973.59	23.04999	3972.66	23.29169	3901.547
22.78889	3975.426	23.05279	3970.024	23.30279	3899.931
22.79169	3976.574	23.05559	3967.617	23.31109	3898.651
22.79449	3978.127	23.05829	3965.375	23.31949	3897.421
22.79719	3979.684	23.06109	3963.245	23.32499	3896.29
22.80279	3981.336	23.06389	3961.125	23.33329	3894.839
22.80559	3982.525	23.06669	3958.97	23.34169	3893.409
22.81109	3984.638	23.06949	3956.822	23.34719	3892.383
22.81669	3986.671	23.07219	3955.126	23.35559	3891.124
22.81949	3988.554	23.07499	3953.332	23.36389	3889.708
22.82219	3990.145	23.07779	3951.37	23.37219	3888.442
22.82499	3991.965	23.08059	3949.844	23.38329	3886.816
22.82779	3993.514	23.08329	3948.256	23.38889	3885.75
22.83059	3994.872	23.08609	3946.469	23.39719	3884.053
22.83329	3996.292	23.08889	3944.691	23.40559	3882.81
22.83889	3998.482	23.09169	3942.858	23.41389	3881.453
22.84449	4000.723	23.09449	3941.171	23.42219	3879.983
22.84719	4002.375	23.09719	3939.46	23.42779	3878.898
22.84999	4003.656	23.1	3938.049	23.43329	3877.783
22.85279	4004.975	23.10279	3936.609	23.43889	3876.687
22.85559	4006.226	23.10559	3934.845	23.44449	3875.305
22.86109	4008.347	23.10829	3933.776	23.44999	3874.059
22.86669	4010.018	23.11109	3932.373	23.45559	3872.962
22.86949	4011.19	23.11389	3931.173	23.46109	3871.727

Pressure Data - hours, psia (continued)

23.46669	3870.68	23.81109	3803.104	24.54719	3779.797
23.47219	3869.411	23.81949	3801.551	24.56389	3780.105
23.47779	3868.322	23.82499	3800.481	24.58059	3779.653
23.48329	3866.552	23.83329	3799.187	24.59719	3779.22
23.48889	3865.264	23.86389	3797.977	24.61389	3778.638
23.49449	3864.021	23.88059	3797.704	24.63059	3777.988
23.5	3862.662	23.89719	3798.807	24.64719	3777.219
23.50559	3860.62	23.91389	3799.72	24.66389	3776.387
23.51109	3859.045	23.93059	3798.572	24.68059	3774.305
23.51669	3856.956	23.94169	3797.397	24.69719	3774.065
23.52219	3855.272	23.96389	3796.612	24.71389	3772.634
23.52779	3853.47	23.98059	3796.556	24.72779	3771.322
23.53059	3852.435	23.99719	3795.855	24.73329	3772.417
23.53609	3850.638	24.01389	3794.916	24.76389	3773.043
23.54169	3848.888	24.03059	3793.971	24.78059	3773.127
23.54719	3847.35	24.04719	3793.57	24.79719	3772.949
23.55279	3845.8	24.06389	3792.617	24.81389	3772.314
23.55829	3844.715	24.08059	3791.867	24.83059	3771.81
23.56389	3842.906	24.09719	3791.22	24.84719	3770.804
23.56949	3841.745	24.11389	3790.961	24.86389	3769.601
23.58059	3839.755	24.13059	3790.922	24.88059	3768.626
23.58609	3838.118	24.14719	3791.017	24.89719	3767.835
23.59449	3836.533	24.16389	3790.126	24.91389	3767.46
23.61389	3835.491	24.18059	3791.035	24.93059	3767.219
23.63059	3833.226	24.19719	3790.228	24.94719	3766.912
23.64719	3832.05	24.21389	3786.666	24.96389	3766.184
23.64999	3830.909	24.22219	3785.616	24.98059	3765.512
23.66389	3829.271	24.23329	3784.549	24.99719	3764.687
23.67219	3827.789	24.24719	3783.252	25.01389	3764.131
23.68329	3826.564	24.25829	3782.226	25.03059	3762.92
23.69169	3825.12	24.26949	3781.089	25.04719	3762.616
23.70559	3823.382	24.29719	3779.27	25.06389	3761.63
23.70829	3822.346	24.31389	3778.82	25.08059	3761.168
23.71949	3820.756	24.33059	3778.443	25.09719	3760.44
23.72499	3819.372	24.34719	3777.769	25.11389	3759.822
23.74719	3817.683	24.36389	3777.735	25.13059	3759.116
23.75559	3816.424	24.38059	3777.926	25.14719	3758.26
23.76109	3815.112	24.39719	3778.374	25.16389	3757.615
23.76669	3813.526	24.41389	3779.259	25.18059	3757.069
23.77219	3811.408	24.43059	3779.348	25.19719	3755.906
23.77779	3810.371	24.44719	3779.545	25.21389	3755.264
23.78329	3809.142	24.46389	3779.101	25.23059	3754.613
23.78889	3807.888	24.48059	3778.959	25.24719	3753.895
23.79449	3806.612	24.49719	3779.022	25.26389	3753.197
23.8	3805.371	24.51389	3778.665	25.28059	3752.728
23.80559	3804.239	24.53059	3778.85	25.29719	3752.061

Pressure Data - hours, psia (continued)

25.31389	3751.095	26.08059	3724.007	26.83059	3700.013
25.33059	3750.42	26.09719	3723.89	26.84719	3699.362
25.34719	3749.422	26.11389	3723.054	26.86389	3699.0009
25.36389	3748.978	26.13059	3722.673	26.88059	3698.954
25.38059	3748.31	26.14719	3722.388	26.89719	3699.06
25.39719	3747.321	26.16389	3721.206	26.91389	3698.981
25.41389	3746.552	26.18059	3720.532	26.93059	3698.407
25.43059	3745.913	26.19719	3719.905	26.94719	3697.818
25.44719	3745.455	26.21389	3718.723	26.96389	3697.469
25.46389	3744.95	26.23059	3718.514	26.98059	3696.989
25.48059	3745.112	26.24719	3717.933	26.99719	3696.22
25.49719	3745.036	26.26389	3717.185	27.01389	3695.798
25.51389	3744.605	26.28059	3716.792	27.03059	3694.908
25.53059	3743.964	26.29719	3716.519	27.04719	3694.836
25.54719	3743.519	26.31389	3716.019	27.06389	3694.711
25.56389	3742.967	26.33059	3715.704	27.08059	3694.837
25.58059	3742.301	26.34719	3715.727	27.09719	3694.864
25.59719	3741.163	26.36389	3715.458	27.11389	3694.424
25.61389	3740.078	26.38059	3714.884	27.13059	3694.179
25.63059	3739.251	26.39719	3714.315	27.14719	3693.673
25.64719	3737.988	26.41389	3713.659	27.16389	3692.333
25.66109	3736.804	26.43059	3713.424	27.17219	3689.066
25.67499	3735.681	26.44719	3712.845	27.17499	3688.024
25.69719	3734.889	26.46389	3712.389	27.18059	3689.194
25.71389	3734.371	26.48059	3712.458	27.19719	3689.59
25.73059	3734.451	26.49719	3712.49	27.21389	3689.971
25.74719	3734.175	26.51389	3712.01	27.23059	3689.24
25.76389	3734.174	26.53059	3711.225	27.24719	3689.105
25.78059	3733.684	26.54719	3710.979	27.26389	3689.063
25.79719	3733.574	26.56389	3710.714	27.28059	3689.136
25.81389	3732.668	26.58059	3710.101	27.29719	3689.569
25.83059	3731.902	26.59719	3708.65	27.31389	3689.259
25.84719	3731.326	26.61389	3707.651	27.33059	3687.374
25.86389	3731.065	26.63059	3707.006	27.34719	3686.635
25.88059	3730.583	26.64719	3705.59	27.36389	3686.736
25.89719	3730.42	26.66389	3704.406	27.38059	3686.426
25.91389	3729.873	26.68059	3704.033	27.39719	3685.511
25.93059	3729.717	26.69719	3697.763	27.41389	3684.641
25.94719	3729.3	26.70279	3696.728	27.43059	3684.329
25.96389	3729.071	26.70559	3698.982	27.44719	3684.285
25.98059	3728.66	26.73059	3699.624	27.46389	3685.416
25.99719	3727.838	26.74719	3699.752	27.48059	3685.189
26.01389	3726.971	26.76389	3699.579	27.49719	3685.464
26.03059	3726.268	26.78059	3699.936	27.51389	3685.145
26.04719	3725.583	26.79719	3700.465	27.53059	3685.429
26.06389	3724.392	26.81389	3700.123	27.54719	3685.685

Test #3 - Cape Cormorant Zone - 11,390'-11,405'

Pressure Data - hours, psia (continued)

27.56389	3684.986	28.26389	3665.174	29.00279	3704.429
27.58059	3684.421	28.28059	3664.459	29.00559	3714.27
27.59719	3683.443	28.29719	3665.005	29.00829	3724.315
27.61389	3683.474	28.31389	3665.551	29.01109	3734.819
27.63059	3682.411	28.33059	3665.123	29.01389	3744.862
27.64719	3681.882	28.34719	3664.608	29.01669	3754.483
27.66389	3681.494	28.36389	3664.147	29.01949	3764.07
27.68059	3681.024	28.38059	3663.546	29.02219	3773.581
27.69719	3680.478	28.39719	3663.841	29.02499	3782.825
27.71389	3680.464	28.41389	3664.88	29.02779	3792.154
27.73059	3680.483	28.43059	3665.561	29.03059	3801.159
27.74719	3679.269	28.44719	3666.406	29.03329	3810.011
27.76389	3678.474	28.46389	3666.18	29.03609	3818.535
27.78059	3678.146	28.48059	3665.784	29.03889	3826.795
27.79719	3677.981	28.49719	3665.237	29.04169	3834.998
27.81389	3678.045	28.51389	3664.772	29.04449	3843.06
27.83059	3677.448	28.53059	3664.511	29.04719	3851
27.84719	3677.919	28.54719	3664.173	29.04999	3858.953
27.86389	3677.895	28.56389	3663.395	29.05279	3866.683
27.88059	3677.7	28.58059	3663.128	29.05559	3874.063
27.89719	3677.02	28.59719	3662.621	29.05829	3881.338
27.91389	3676.7	28.61389	3661.889	29.06109	3888.456
27.93059	3676.752	28.63059	3661.19	29.06389	3895.453
27.94719	3676.96	28.64719	3660.276	29.06669	3902.152
27.96389	3676.567	28.66389	3659.66	29.06949	3908.645
27.98059	3676.316	28.68059	3659.072	29.07219	3915.155
27.99719	3672.683	28.69719	3658.568	29.07499	3921.524
28.00279	3671.553	28.71389	3658.163	29.07779	3927.774
28.01109	3670.331	28.73059	3657.884	29.08059	3933.86
28.01669	3669.276	28.74719	3658.062	29.08329	3939.792
28.02219	3668.197	28.76389	3658.134	29.08609	3945.567
28.02779	3666.453	28.78059	3658.787	29.08889	3951.184
28.03889	3665.104	28.79719	3659.809	29.09169	3956.597
28.04719	3663.891	28.81389	3660.07	29.09449	3962.003
28.05829	3662.645	28.83059	3661	29.09719	3967.15
28.07219	3661.536	28.84719	3661.061	29.1	3972.35
28.08329	3660.309	28.86389	3660.924	29.10279	3977.417
28.11389	3663.676	28.88059	3660.519	29.10559	3982.467
28.12499	3665.16	28.89719	3659.895	29.10829	3987.224
28.14719	3666.246	28.91389	3658.821	29.11109	3992.187
28.16389	3666.282	28.93059	3657.582	29.11389	3996.735
28.18059	3665.568	28.94719	3656.811	29.11669	4001.04
28.19719	3664.875	28.96389	3656.067	29.11949	4005.25
28.21389	3664.133	28.98059	3655.122	29.12219	4009.266
28.23059	3664.524	28.99719	3684.707	29.12499	4013.296
28.24719	3664.738	29	3696.09	29.12779	4017.342

Pressure Data - hours, psia (continued)

29.13059	4021.366	29.25829	4136.719	29.38889	4189.46
29.13329	4025.165	29.26109	4138.365	29.39169	4190.511
29.13609	4028.791	29.26389	4140.047	29.39449	4191.612
29.13889	4032.444	29.26669	4141.688	29.39719	4192.686
29.14169	4035.99	29.26949	4143.246	29.4	4193.722
29.14449	4039.547	29.27219	4144.884	29.40279	4194.771
29.14719	4042.931	29.27499	4146.412	29.40559	4195.794
29.14999	4046.168	29.27779	4147.963	29.40829	4196.866
29.15279	4049.441	29.28059	4149.574	29.41109	4197.927
29.15559	4052.647	29.28329	4150.991	29.41669	4199.973
29.15829	4055.775	29.28609	4139.529	29.42219	4201.974
29.16109	4058.88	29.29169	4140.6009	29.42779	4203.908
29.16389	4061.918	29.29449	4142.226	29.43329	4205.882
29.16669	4064.842	29.29719	4144.01	29.43889	4207.8
29.16949	4067.725	29.3	4145.674	29.44449	4209.648
29.17219	4070.539	29.30279	4147.369	29.44999	4211.508
29.17499	4073.257	29.30559	4148.953	29.45559	4213.333
29.17779	4075.991	29.30829	4150.594	29.46109	4215.14
29.18059	4078.518	29.31109	4152.222	29.46669	4216.96
29.18329	4081.073	29.31389	4153.756	29.47219	4218.675
29.18609	4083.526	29.31669	4155.243	29.47779	4220.472
29.18889	4086.043	29.31949	4156.749	29.48329	4222.166
29.19169	4088.496	29.32219	4158.309	29.48889	4223.874
29.19449	4090.86	29.32499	4159.796	29.49449	4225.527
29.19719	4093.241	29.32779	4161.237	29.5	4227.218
29.2	4095.558	29.33059	4162.729	29.50559	4228.845
29.20279	4097.858	29.33329	4164.233	29.51109	4230.505
29.20559	4100.077	29.33609	4165.717	29.51669	4232.083
29.20829	4102.308	29.33889	4167.22	29.52219	4233.675
29.21109	4104.551	29.34169	4168.509	29.52779	4235.114
29.21389	4106.639	29.34449	4169.881	29.53329	4236.719
29.21669	4108.786	29.34719	4171.237	29.53889	4238.21
29.21949	4110.82	29.34999	4172.491	29.54449	4239.749
29.22219	4112.758	29.35279	4173.764	29.54999	4241.32
29.22499	4114.781	29.35559	4175.055	29.55559	4242.953
29.22779	4116.685	29.35829	4176.359	29.56109	4244.513
29.23059	4118.662	29.36109	4177.613	29.56669	4245.998
29.23329	4120.444	29.36389	4178.802	29.57219	4247.546
29.23609	4122.375	29.36669	4180.148	29.57779	4249.136
29.23889	4124.269	29.36949	4181.392	29.58329	4250.62
29.24169	4126.148	29.37219	4182.602	29.58889	4252.214
29.24449	4127.945	29.37499	4183.796	29.59449	4253.761
29.24719	4129.732	29.37779	4184.922	29.6	4255.235
29.24999	4131.494	29.38059	4186.053	29.60559	4256.725
29.25279	4133.208	29.38329	4187.244	29.61109	4258.279
29.25559	4134.971	29.38609	4188.321	29.61669	4259.732

Test #3 - Cape Cormorant Zone - 11,390'-11,405'

Pressure Data - hours, psia (continued)

29.62219	4261.236	29.88059	4322.265	30.19449	4379.953
29.62779	4262.681	29.88609	4323.876	30.20279	4381.213
29.63329	4264.167	29.89169	4325.154	30.21109	4382.601
29.63889	4265.562	29.89719	4326.545	30.21949	4383.955
29.64449	4267.016	29.90279	4327.644	30.22779	4385.218
29.64999	4268.388	29.90829	4328.712	30.23609	4386.52
29.65559	4269.912	29.91389	4330.07	30.24449	4387.89
29.66109	4271.437	29.91949	4331.386	30.25279	4389.075
29.66669	4272.84	29.92779	4332.625	30.26109	4390.334
29.67219	4274.338	29.93609	4334.106	30.26949	4391.592
29.67779	4275.771	29.94169	4335.358	30.27779	4392.683
29.68329	4277.013	29.94719	4336.752	30.28609	4393.925
29.68889	4278.519	29.95279	4337.814	30.29449	4395.076
29.69449	4279.826	29.95829	4338.872	30.30279	4396.246
29.7	4281.218	29.96669	4340.27	30.31109	4397.507
29.70559	4282.637	29.97219	4341.585	30.31949	4398.67
29.71109	4283.972	29.97779	4342.62	30.32779	4399.772
29.71669	4285.363	29.98609	4343.884	30.33609	4401.014
29.72219	4286.563	29.99169	4344.964	30.34449	4402.152
29.72779	4287.852	29.99719	4346.054	30.35279	4403.425
29.73329	4289.271	30.00559	4347.567	30.36109	4404.562
29.73889	4290.64	30.01389	4349.089	30.36949	4405.662
29.74449	4291.795	30.02219	4350.426	30.37779	4406.7
29.74999	4293.084	30.02779	4351.498	30.38609	4407.879
29.75559	4294.301	30.03609	4352.921	30.39449	4408.909
29.76109	4295.675	30.04169	4353.946	30.40279	4410.081
29.76669	4297.288	30.04999	4355.284	30.41109	4411.224
29.77219	4298.503	30.05559	4356.435	30.41949	4412.398
29.77779	4299.785	30.06389	4357.795	30.42779	4413.467
29.78329	4300.884	30.06949	4358.871	30.43609	4414.534
29.78889	4302.062	30.07779	4360.305	30.44449	4415.694
29.79449	4303.376	30.08609	4361.565	30.45279	4416.776
29.8	4304.676	30.09449	4362.903	30.46109	4417.9009
29.80559	4305.822	30.10279	4364.096	30.46949	4419.021
29.81109	4307.035	30.11109	4365.536	30.47779	4420.09
29.81669	4308.246	30.11949	4366.915	30.48609	4421.143
29.82219	4309.493	30.12499	4367.933	30.49449	4422.242
29.82779	4311.129	30.13059	4368.993	30.50279	4423.359
29.83329	4312.646	30.13609	4370.082	30.51109	4424.368
29.83889	4313.73	30.14169	4371.111	30.51949	4425.412
29.84449	4314.818	30.14719	4372.233	30.52779	4426.466
29.84999	4315.895	30.15279	4373.345	30.53609	4427.534
29.85559	4317.342	30.16109	4374.635	30.54449	4428.613
29.86109	4318.673	30.16949	4375.99	30.55559	4429.903
29.86949	4319.935	30.17779	4377.269	30.56389	4430.938
29.87499	4321.054	30.18609	4378.654	30.57219	4431.946

Pressure Data - hours, psia (continued)

30.58059	4432.968	31.07779	4486.033	31.65279	4536.773
30.58889	4434.013	31.08889	4487.085	31.66669	4537.91
30.59719	4435.024	31.1	4488.149	31.68059	4539.02
30.60559	4436.042	31.11109	4489.254	31.69449	4540.114
30.61669	4437.329	31.12219	4490.297	31.70829	4541.239
30.62499	4438.348	31.13329	4491.322	31.72219	4542.272
30.63609	4439.651	31.14449	4492.379	31.73609	4543.263
30.64449	4440.695	31.15559	4493.49	31.74999	4544.354
30.65559	4441.957	31.16949	4494.778	31.76389	4545.423
30.66669	4443.152	31.18059	4495.862	31.77779	4546.474
30.67779	4444.45	31.19169	4496.886	31.79169	4547.568
30.68889	4445.733	31.20279	4497.981	31.80559	4548.647
30.7	4447.027	31.21389	4499.037	31.81949	4549.686
30.71109	4448.309	31.22499	4500.041	31.83329	4550.806
30.72219	4449.56	31.23609	4501.027	31.84719	4551.878
30.73329	4450.796	31.24719	4502.036	31.86109	4552.98
30.74449	4452.063	31.25829	4503.043	31.87499	4553.971
30.75559	4453.237	31.27219	4504.221	31.88889	4555.05
30.76669	4454.456	31.28329	4505.238	31.90279	4556.203
30.77779	4455.652	31.29449	4506.26	31.91669	4557.288
30.78889	4456.923	31.30829	4507.475	31.93059	4558.307
30.8	4458.064	31.32219	4508.665	31.94449	4559.425
30.81109	4459.305	31.33609	4509.872	31.95829	4560.566
30.82219	4460.527	31.34719	4510.876	31.97219	4561.734
30.83329	4461.724	31.35829	4511.876	31.98609	4562.816
30.84449	4462.851	31.37219	4513.046	32	4563.878
30.85559	4464.037	31.38609	4514.281	32.01389	4564.988
30.86669	4465.208	31.4	4515.477	32.02779	4566.065
30.87779	4466.349	31.41109	4516.507	32.04169	4567.119
30.88889	4467.467	31.42499	4517.696	32.05559	4568.113
30.9	4468.619	31.43609	4518.679	32.06949	4569.275
30.91109	4469.768	31.44999	4519.85	32.08329	4570.286
30.92219	4470.862	31.46389	4521.021	32.09719	4571.372
30.93329	4471.989	31.47779	4522.223	32.11109	4572.458
30.94449	4473.082	31.48889	4523.196	32.12499	4573.581
30.95559	4474.2	31.5	4524.185	32.13889	4574.581
30.96669	4475.292	31.51389	4525.318	32.15279	4575.622
30.97779	4476.363	31.52779	4526.457	32.16669	4576.711
30.98889	4477.556	31.54169	4527.619	32.18059	4577.817
31	4478.591	31.55559	4528.757	32.19449	4578.866
31.01109	4479.708	31.56949	4529.9	32.20829	4579.927
31.02219	4480.739	31.58329	4531.011	32.22219	4580.969
31.03329	4481.835	31.59719	4532.219	32.23609	4581.964
31.04449	4482.868	31.61109	4533.395	32.24999	4582.985
31.05559	4483.898	31.62499	4534.498	32.28059	4585.221
31.06669	4484.941	31.63889	4535.606	32.29449	4586.27

Test #3 - Cape Cormorant Zone - 11,390'-11,405'

Pressure Data - hours, psia (continued)

32.31389	4587.654	33.08059	4639.7009	33.84719	4684.9
32.33059	4588.854	33.09719	4640.807	33.86389	4685.805
32.34449	4589.863	33.11389	4641.808	33.88059	4686.745
32.36389	4591.251	33.13059	4642.882	33.89719	4687.677
32.38059	4592.353	33.14719	4643.934	33.91389	4688.641
32.39449	4593.39	33.16389	4644.947	33.93059	4689.537
32.40829	4594.378	33.18059	4645.958	33.94719	4690.39
32.43059	4595.978	33.19719	4646.924	33.96389	4691.256
32.44719	4597.075	33.21389	4647.994	33.98059	4692.178
32.46389	4598.245	33.23059	4648.997	33.99719	4693.094
32.48059	4599.449	33.24719	4650.011	34.01389	4694.002
32.49719	4600.571	33.26389	4650.988	34.03059	4694.912
32.51389	4601.767	33.28059	4652.12	34.04719	4695.739
32.53059	4602.966	33.29719	4653.149	34.06389	4696.615
32.54719	4604.065	33.31389	4654.12	34.08059	4697.46
32.56389	4605.243	33.33059	4655.123	34.09719	4698.362
32.58059	4606.353	33.34719	4656.09	34.11389	4699.284
32.59719	4607.494	33.36389	4657.117	34.13059	4700.105
32.61389	4608.666	33.38059	4658.052	34.14719	4701.028
32.63059	4609.816	33.39719	4658.98	34.16389	4701.892
32.64719	4610.981	33.41389	4659.977	34.18059	4702.733
32.66109	4611.974	33.43059	4660.933	34.19719	4703.66
32.67499	4612.97	33.44719	4661.925	34.21389	4704.487
32.69719	4614.518	33.46389	4662.928	34.23059	4705.397
32.71389	4615.674	33.48059	4663.972	34.24719	4706.191
32.73059	4616.794	33.49719	4664.889	34.26389	4707.081
32.74719	4617.954	33.51389	4665.981	34.28059	4707.943
32.76389	4619.034	33.53059	4666.878	34.29719	4708.8009
32.78059	4620.145	33.54719	4667.894	34.31389	4709.692
32.79719	4621.322	33.56389	4668.83	34.33059	4710.534
32.81389	4622.439	33.58059	4669.855	34.34719	4711.429
32.83059	4623.504	33.59719	4670.794	34.36389	4712.261
32.84719	4624.551	33.61389	4671.802	34.38059	4713.136
32.86389	4625.696	33.63059	4672.736	34.39719	4713.969
32.88059	4626.811	33.64719	4673.738	34.41389	4714.871
32.89719	4627.902	33.66389	4674.604	34.43059	4715.757
32.91389	4629.044	33.68059	4675.607	34.44719	4716.582
32.93059	4630.098	33.69719	4676.5009	34.46389	4717.457
32.94719	4631.187	33.71389	4677.467	34.48059	4718.306
32.96389	4632.293	33.73059	4678.377	34.49719	4719.154
32.98059	4633.373	33.74719	4679.324	34.51389	4719.995
32.99719	4634.435	33.76389	4680.25	34.53059	4720.823
33.01389	4635.435	33.78059	4681.23	34.54719	4721.684
33.03059	4636.598	33.79719	4682.142	34.56389	4722.537
33.04719	4637.597	33.81389	4683.061	34.58059	4723.358
33.06389	4638.725	33.83059	4683.973	34.59719	4724.224

Pressure Data - hours, psia (continued)

34.61389	4725.015	35.38059	4761.01	36.14719	4791.725
34.63059	4725.76	35.39719	4761.722	36.16389	4792.32
34.64719	4726.665	35.41389	4762.48	36.18059	4792.889
34.66389	4727.515	35.43059	4763.15	36.19719	4793.503
34.68059	4728.307	35.44719	4763.859	36.21389	4794.152
34.69719	4729.148	35.46389	4764.534	36.23059	4794.705
34.71389	4729.963	35.48059	4765.254	36.24719	4795.317
34.73059	4730.813	35.49719	4765.988	36.26389	4795.901
34.74719	4731.611	35.51389	4766.707	36.28059	4796.479
34.76389	4732.386	35.53059	4767.382	36.29719	4797.059
34.78059	4733.201	35.54719	4768.088	36.31389	4797.667
34.79719	4734.034	35.56389	4768.794	36.33059	4798.261
34.81389	4734.851	35.58059	4769.408	36.34719	4798.869
34.83059	4735.645	35.59719	4770.132	36.36389	4799.414
34.84719	4736.45	35.61389	4770.835	36.38059	4800.042
34.86389	4737.256	35.63059	4771.524	36.39719	4800.572
34.88059	4738.064	35.64719	4772.228	36.41389	4801.109
34.89719	4738.88	35.66389	4772.889	36.43059	4801.725
34.91389	4739.668	35.68059	4773.605	36.44719	4802.296
34.93059	4740.534	35.69719	4774.288	36.46389	4802.848
34.94719	4741.276	35.71389	4774.957	36.48059	4803.391
34.96389	4742.095	35.73059	4775.651	36.49719	4803.947
34.98059	4742.867	35.74719	4776.363	36.51389	4804.494
34.99719	4743.622	35.76389	4777.016	36.53059	4805.114
35.01389	4744.49	35.78059	4777.656	36.54719	4805.665
35.03059	4745.295	35.79719	4778.283	36.56389	4806.167
35.04719	4746.014	35.81389	4778.963	36.58059	4806.727
35.06389	4746.741	35.83059	4779.618	36.59719	4807.264
35.08059	4747.531	35.84719	4780.269	36.61389	4807.724
35.09719	4748.335	35.86389	4780.976	36.63059	4808.272
35.11389	4749.072	35.88059	4781.643	36.64719	4808.836
35.13059	4749.851	35.89719	4782.332	36.66389	4809.356
35.14719	4750.625	35.91389	4782.951	36.68059	4809.936
35.16389	4751.4009	35.93059	4783.65	36.69719	4810.433
35.18059	4752.175	35.94719	4784.164	36.71389	4811.006
35.19719	4752.96	35.96389	4784.862	36.73059	4811.532
35.21389	4753.715	35.98059	4785.494	36.74719	4812.03
35.23059	4754.514	35.99719	4786.125	36.76389	4812.508
35.24719	4755.263	36.01389	4786.787	36.78059	4813.041
35.26389	4755.983	36.03059	4787.408	36.79719	4813.519
35.28059	4756.724	36.04719	4788.017	36.81389	4814.065
35.29719	4757.43	36.06389	4788.587	36.83059	4814.632
35.31389	4758.166	36.08059	4789.216	36.84719	4815.152
35.33059	4758.887	36.09719	4789.862	36.86389	4815.682
35.34719	4759.617	36.11389	4790.566	36.88059	4816.168
35.36389	4760.35	36.13059	4791.095	36.89719	4816.703

Pressure Data - hours, psia (continued)

36.91389	4817.17	37.68059	4836.754	38.44719	4853.772
36.93059	4817.671	37.69719	4837.07	38.46389	4854.053
36.94719	4818.133	37.71389	4837.448	38.48059	4854.36
36.96389	4818.614	37.73059	4837.782	38.49719	4854.771
36.98059	4819.095	37.74719	4838.167	38.51389	4855.094
36.99719	4819.519	37.76389	4838.562	38.53059	4855.35
37.01389	4819.973	37.78059	4838.881	38.54719	4855.682
37.03059	4820.427	37.79719	4839.261	38.56389	4855.956
37.04719	4820.785	37.81389	4839.651	38.58059	4856.272
37.06389	4821.295	37.83059	4840.065	38.59719	4856.543
37.08059	4821.755	37.84719	4840.439	38.61389	4856.835
37.09719	4822.271	37.86389	4840.79	38.63059	4857.107
37.11389	4822.767	37.88059	4841.176	38.64719	4857.373
37.13059	4823.21	37.89719	4841.641	38.66389	4857.672
37.14719	4823.662	37.91389	4841.968	38.68059	4858.016
37.16389	4824.068	37.93059	4842.369	38.69719	4858.284
37.18059	4824.524	37.94719	4842.736	38.71389	4858.521
37.19719	4825.0009	37.96389	4843.141	38.73059	4858.805
37.21389	4825.445	37.98059	4843.498	38.74719	4859.117
37.23059	4825.863	37.99719	4843.848	38.76389	4859.385
37.24719	4826.278	38.01389	4844.26	38.78059	4859.696
37.26389	4826.738	38.03059	4844.645	38.79719	4859.905
37.28059	4827.143	38.04719	4845.037	38.81389	4860.114
37.29719	4827.55	38.06389	4845.337	38.83059	4860.51
37.31389	4827.985	38.08059	4845.752	38.84719	4860.724
37.33059	4828.383	38.09719	4846.161	38.86389	4860.991
37.34719	4828.723	38.11389	4846.583	38.88059	4861.255
37.36389	4829.18	38.13059	4846.924	38.89719	4861.501
37.38059	4829.606	38.14719	4847.212	38.91389	4861.793
37.39719	4830.013	38.16389	4847.586	38.93059	4862.066
37.41389	4830.453	38.18059	4847.903	38.94719	4862.33
37.43059	4830.894	38.19719	4848.355	38.96389	4862.645
37.44719	4831.296	38.21389	4848.737	38.98059	4862.95
37.46389	4831.69	38.23059	4849.116	38.99719	4863.275
37.48059	4832.091	38.24719	4849.457	39.01389	4863.612
37.49719	4832.534	38.26389	4849.876	39.03059	4863.886
37.51389	4832.919	38.28059	4850.191	39.04719	4864.052
37.53059	4833.303	38.29719	4850.562	39.06389	4864.301
37.54719	4833.664	38.31389	4850.953	39.08059	4864.52
37.56389	4834.023	38.33059	4851.31	39.09719	4864.715
37.58059	4834.477	38.34719	4851.679	39.11389	4864.936
37.59719	4834.885	38.36389	4851.975	39.13059	4865.161
37.61389	4835.247	38.38059	4852.312	39.14719	4865.407
37.63059	4835.708	38.39719	4852.749	39.16389	4865.648
37.64719	4835.991	38.41389	4853.059	39.18059	4865.884
37.66389	4836.359	38.43059	4853.448	39.19719	4866.123

Test #3 - Cape Cormorant Zone - 11,390'-11,405'

Pressure Data - hours, psia (continued)

39.21389	4866.314	39.98059	4880.5009	40.74719	4891.254
39.23059	4866.471	39.99719	4880.693	40.76389	4891.449
39.24719	4866.75	40.01389	4880.977	40.78059	4891.7009
39.26389	4866.958	40.03059	4881.27	40.79719	4891.864
39.28059	4867.18	40.04719	4881.52	40.81389	4892.073
39.29719	4867.416	40.06389	4881.79	40.83059	4892.228
39.31389	4867.59	40.08059	4882.009	40.84719	4892.53
39.33059	4867.902	40.09719	4882.239	40.86389	4892.681
39.34719	4868.112	40.11389	4882.491	40.88059	4892.844
39.36389	4868.243	40.13059	4882.772	40.89719	4893.044
39.38059	4868.501	40.14719	4882.992	40.91389	4893.257
39.39719	4868.72	40.16389	4883.261	40.93059	4886.054
39.41389	4868.843	40.18059	4883.554	40.94719	4886.019
39.43059	4869.156	40.19719	4883.794	40.96389	4887.154
39.44719	4869.336	40.21389	4884.048	40.98059	4888.363
39.46389	4869.544	40.23059	4884.251	40.99169	4889.469
39.48059	4869.826	40.24719	4884.461	41.00279	4890.559
39.49719	4870.046	40.26389	4884.671	41.01669	4891.677
39.51389	4870.27	40.28059	4884.894	41.03059	4892.946
39.53059	4870.554	40.29719	4885.176	41.04719	4894.023
39.54719	4870.827	40.31389	4885.416	41.06109	4895.64
39.56389	4871.071	40.33059	4885.587	41.06949	4896.943
39.58059	4871.483	40.34719	4885.82	41.08059	4898.166
39.59719	4871.859	40.36389	4886.036	41.08889	4899.345
39.61389	4872.264	40.38059	4886.218	41.1	4900.758
39.63059	4872.644	40.39719	4886.464	41.11389	4899.186
39.64719	4873.131	40.41389	4886.735	41.12779	4897.781
39.66389	4873.592	40.43059	4887.0009	41.14169	4898.805
39.68059	4873.966	40.44719	4887.217		
39.69719	4874.388	40.46389	4887.452		
39.71389	4874.874	40.48059	4887.682		
39.73059	4875.291	40.49719	4887.953		
39.74719	4875.751	40.51389	4888.154		
39.76389	4876.203	40.53059	4888.4		
39.78059	4876.675	40.54719	4888.543		
39.79719	4877.138	40.56389	4888.77		
39.81389	4877.567	40.58059	4889.024		
39.83059	4877.927	40.59719	4889.264		
39.84719	4878.277	40.61389	4889.495		
39.86389	4878.494	40.63059	4889.716		
39.88059	4878.728	40.64719	4889.9		
39.89719	4879.058	40.66389	4890.135		
39.91389	4879.313	40.68059	4890.362		
39.93059	4879.642	40.69719	4890.546		
39.94719	4879.903	40.71389	4890.72		
39.96389	4880.185	40.73059	4890.973		

TIME	CUM TIME	FLUID BBLS	OIL CUT	BBLS OIL	CUM OIL	BOPD OIL	MMCF/D	GOR MM/D	AVG RATE	HRS
07:45:00	0.00						1.19			
08:00:00	0.25						1.35			
08:15:00	0.50	14.00	0.35	4.90	4.90	470.40	1.35	2,878.40		
08:30:00	0.75	25.00	0.30	7.50	12.40	720.00	0.81	1,119.44		
09:00:00	1.25	11.50	0.30	3.45	15.85	165.60	1.18	7,125.60		
09:15:00	1.50	33.60	0.30	10.08	25.93	967.68	1.20	1,240.08	1.18	2,728.02
09:30:00	1.75	18.70	0.30	5.61	31.54	538.56	1.18	2,191.03	432.55	1.75
SHUT IN DUE TO FOAM PROBLEMS										
17:30:00	0.00									
18:00:00	0.50	36.50	0.50	18.25	49.79	876.00	1.78	2,031.96		
18:30:00	1.00	91.26	0.20	18.25	68.04	876.10	1.01	1,152.84		
19:00:00	1.50	73.40	0.50	36.70	104.74	1,761.60	3.37	1,913.03		
19:30:00	2.00	38.36	0.48	18.41	123.15	883.81	3.66	4,141.14		
20:00:00	2.50	16.67	0.55	9.17	132.32	440.09	3.61	8,202.90		
20:30:00	3.00	66.60	0.62	41.29	173.62	1,982.02	3.53	1,781.01		
21:00:00	3.50	50.00	0.65	32.50	206.12	1,560.00	3.33	2,134.62		
21:30:00	4.00	50.00	0.65	32.50	238.62	1,560.00	3.26	2,089.74		
22:00:00	4.50	25.00	0.70	17.50	256.12	840.00	3.37	4,011.90		
22:30:00	5.00	66.70	0.70	46.69	302.81	2,241.12	3.22	1,436.78		
23:00:00	5.50	88.30	0.70	61.81	364.62	2,966.88	2.91	980.83		
23:30:00	6.00	65.00	0.70	45.50	410.12	2,184.00	3.23	1,478.94		
00:00:00	6.50	86.70	0.70	60.69	470.81	2,913.12	3.19	1,095.05		
00:30:00	7.00	20.00	0.70	14.00	484.81	672.00	3.15	4,687.50		
01:00:00	7.50	93.30	0.70	65.31	550.12	3,134.88	3.24	1,033.53		
01:30:00	8.00	70.00	0.70	49.00	599.12	2,352.00	3.16	1,343.54		
02:00:00	8.50	43.30	0.70	30.31	629.43	1,454.88	2.94	2,020.79	3.05	1,737.95
02:30:00	9.00	85.00	0.70	59.50	688.93	2,856.00	2.88	1,008.40	1,753.03	9.00
SHUT IN TO RUN BOMBS					688.93					
05:50:00	0.00				688.93					
05:55:00	0.08				688.93					
06:00:00	0.17				688.93					
06:30:00	0.67	31.60	0.35	11.06	699.99	530.88	3.20	na		
07:00:00	1.17	90.00	0.35	31.50	731.49	1,512.00	2.81	5,293.10		
07:30:00	1.67	78.40	0.70	54.88	786.37	2,634.24	2.60	1,719.58		
08:00:00	2.17	20.00	0.70	14.00	800.37	672.00	3.54	1,343.84		
08:30:00	2.67	60.00	0.70	42.00	842.37	2,016.00	3.23	4,806.55		
09:00:00	3.17	60.00	0.70	42.00	884.37	2,016.00	3.03	1,502.98		
09:30:00	3.67	53.30	0.70	37.31	921.68	1,790.88	2.82	1,398.81		
10:00:00	4.17	35.00	0.70	24.50	946.18	1,176.00	2.89	1,613.73		
10:30:00	4.67	47.5	0.70	33.25	979.43	1,596.00	2.38	2,023.81		
11:00:00	5.17	47.5	0.70	33.25	1,012.68	1,596.00	na	0.00		
11:30:00	5.67	58.4	0.70	40.88	1,053.56	1,962.24	3.01	1,885.96		
12:00:00	6.17	33.3	0.75	24.97	1,078.53	1,198.80	2.97	1,513.58		
12:30:00	6.67	40.1	0.75	30.08	1,108.61	1,443.60	2.95	2,477.48	2.74	1,815.44
								2,043.50	1,510.85	6.67
								TOTAL	1,527.65	17.42

Port au Port #1 - Test #3 Rate Data

TIME	CUM TIME	FLUID BBLS	OIL CUT	BBLS OIL	CUM OIL	OIL RATE BOPD	UNCORRECTED GAS RATE MMCF/D	CORRECTED (.75 S.G.) MMCF/D	CORRECTED GOR, CF/BBL
07:45:00	0.00								
08:00:00	0.25						1.19	1.06	
08:15:00	0.50	14.00	0.35	4.90	4.90	470.40	1.35	1.21	
08:30:00	0.75	25.00	0.30	7.50	12.40	720.00	1.35	1.21	2,573
09:00:00	1.25	11.50	0.30	3.45	15.85	165.60	0.81	0.72	1,001
09:15:00	1.50	33.60	0.30	10.08	25.93	967.68	1.18	1.05	6,370
09:30:00	1.75	18.70	0.30	5.61	31.54	538.56	1.20	1.07	1,109
SHUT IN DUE TO FOAM PROBLEMS							1.18	1.05	1,959
17:30:00	0.00								
18:00:00	0.50	36.50	0.50	18.25	49.79	876.00	1.78	1.59	1,817
18:30:00	1.00	91.26	0.20	18.25	68.04	876.10	1.01	0.90	1,031
19:00:00	1.50	73.40	0.50	36.70	104.74	1,761.60	3.37	3.01	1,710
19:30:00	2.00	38.36	0.48	18.41	123.15	883.81	3.66	3.27	3,702
20:00:00	2.50	16.67	0.55	9.17	132.32	440.09	3.61	3.23	7,333
20:30:00	3.00	66.60	0.62	41.29	173.62	1,982.02	3.53	3.16	1,592
21:00:00	3.50	50.00	0.65	32.50	206.12	1,560.00	3.33	2.98	1,908
21:30:00	4.00	50.00	0.65	32.50	238.62	1,560.00	3.26	2.91	1,868
22:00:00	4.50	25.00	0.70	17.50	256.12	840.00	3.37	3.01	3,587
22:30:00	5.00	66.70	0.70	46.69	302.81	2,241.12	3.22	2.88	1,284
23:00:00	5.50	88.30	0.70	61.81	364.62	2,966.88	2.91	2.60	877
23:30:00	6.00	65.00	0.70	45.50	410.12	2,184.00	3.23	2.89	1,322
00:00:00	6.50	86.70	0.70	60.69	470.81	2,913.12	3.19	2.85	979
00:30:00	7.00	20.00	0.70	14.00	484.81	672.00	3.15	2.82	4,191
01:00:00	7.50	93.30	0.70	65.31	550.12	3,134.88	3.24	2.90	924
01:30:00	8.00	70.00	0.70	49.00	599.12	2,352.00	3.16	2.83	1,201
02:00:00	8.50	43.30	0.70	30.31	629.43	1,454.88	2.94	2.63	1,807
02:30:00	9.00	85.00	0.70	59.50	688.93	2,856.00	2.88	2.57	902
SHUT IN TO RUN BOMBS									
05:50:00	0.00				688.93				
05:55:00	0.08				688.93				
06:00:00	0.17				688.93				
06:30:00	0.67	31.60	0.35	11.06	699.99	530.88	3.20	2.86	ERR
07:00:00	1.17	90.00	0.35	31.50	731.49	1,512.00	2.81	2.51	4,732
07:30:00	1.67	78.40	0.70	54.88	786.37	2,634.24	2.60	2.32	1,537
08:00:00	2.17	20.00	0.70	14.00	800.37	672.00	3.54	3.16	1,201
08:30:00	2.67	60.00	0.70	42.00	842.37	2,016.00	3.23	2.89	4,297
09:00:00	3.17	60.00	0.70	42.00	884.37	2,016.00	3.03	2.71	1,344
09:30:00	3.67	53.30	0.70	37.31	921.68	1,790.88	2.82	2.52	1,251
10:00:00	4.17	35.00	0.70	24.50	946.18	1,176.00	2.89	2.58	1,443
10:30:00	4.67	47.50	0.70	33.25	979.43	1,596.00	2.38	2.13	1,809
11:00:00	5.17	47.50	0.70	33.25	1,012.68	1,596.00	na	0.00	0
11:30:00	5.67	58.40	0.70	40.88	1,053.56	1,962.24	3.01	2.69	1,686
12:00:00	6.17	33.30	0.75	24.97	1,078.53	1,198.80	2.97	2.66	1,353
12:30:00	6.67	40.10	0.75	30.08	1,108.61	1,443.60	2.97	2.66	2,215
							2.95	2.64	1,827

FINAL WELL REPORT

NHOC/PanCanadian Port au Port No. 1

APPENDIX V

PRODUCTION TEST DATA

V - 9 DST #4, Field Data ..... NHOC

NEWFOUNDLAND HUNT OIL COMPANY INC.

JULY 1996

TEST # 4

PERF: 11349.0' - 11359.0'

PACKER SET: 11108'

ACID @ 37 BBLS 15% HCL

START FLOWING: 95·04·18 @ 18:00 HR

SHUT-IN: 95·04·20 @ 20:00 HR

FLOWING TIME: 50 HR

AVERAGE PRODUCTION THROUGH 22/64 CHOKE

RATE: 908 BOPD (STB) 264 BWPD (STB)

1538 MCFPD Ph 7 SALINITY 248,800

GAS GRAVITY: 0.739 OIL GRAVITY 49.8° API

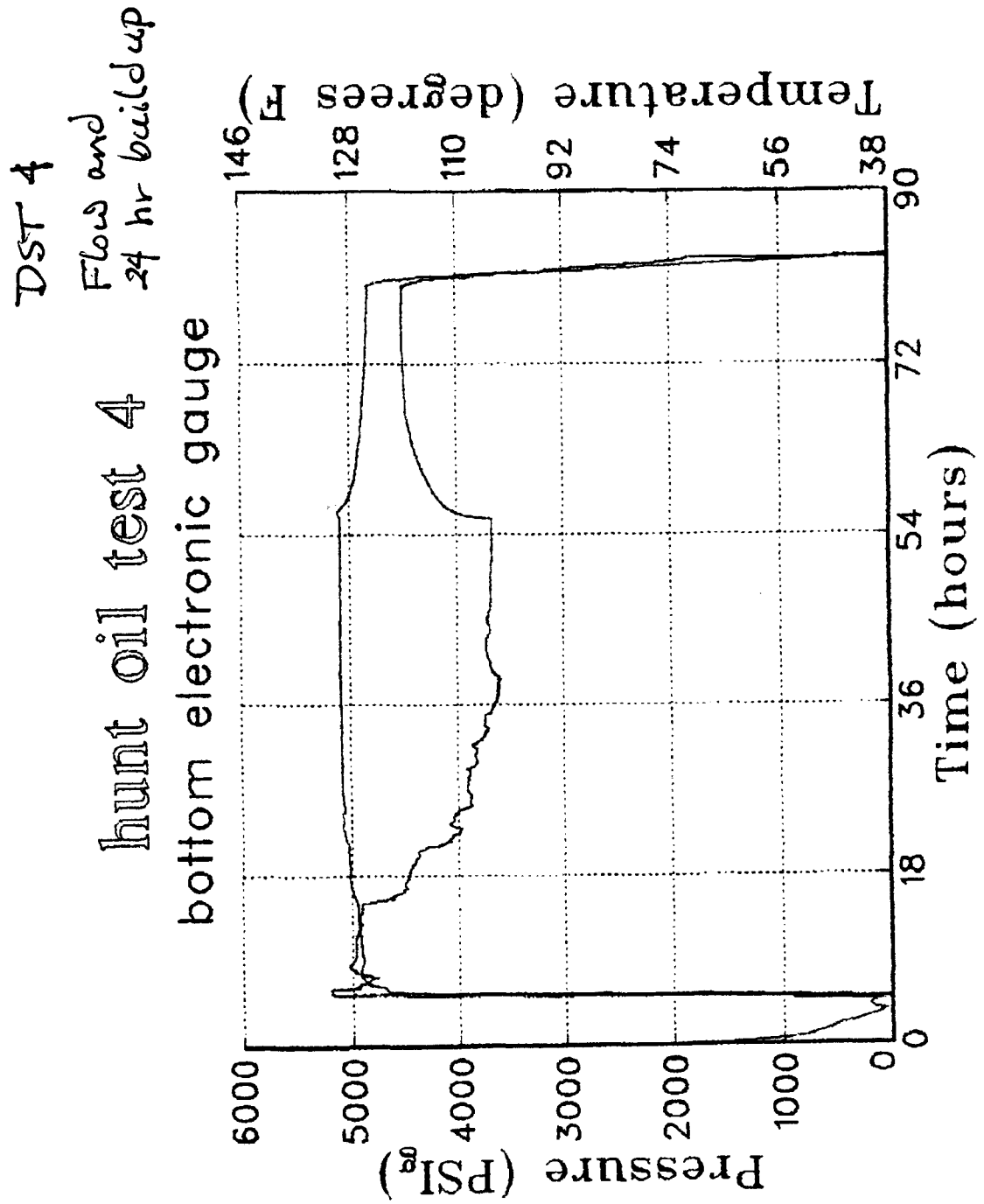
WATER: SG 1.22 10.2 # GAL

ISIP 5339 psia @ 10ppg 5318 psia @ 8.4ppg spent Acid @ 11354'
P^*_{and} 4994 psia @ 11354

Initial MW 9.04
Final Eqv MW 8.46

TOTAL LOAD 780 BW

ZIPGRAPH 3. 1b6 for Z. I. Probes, Edmonton Apr. 21, 1995 23:43:29



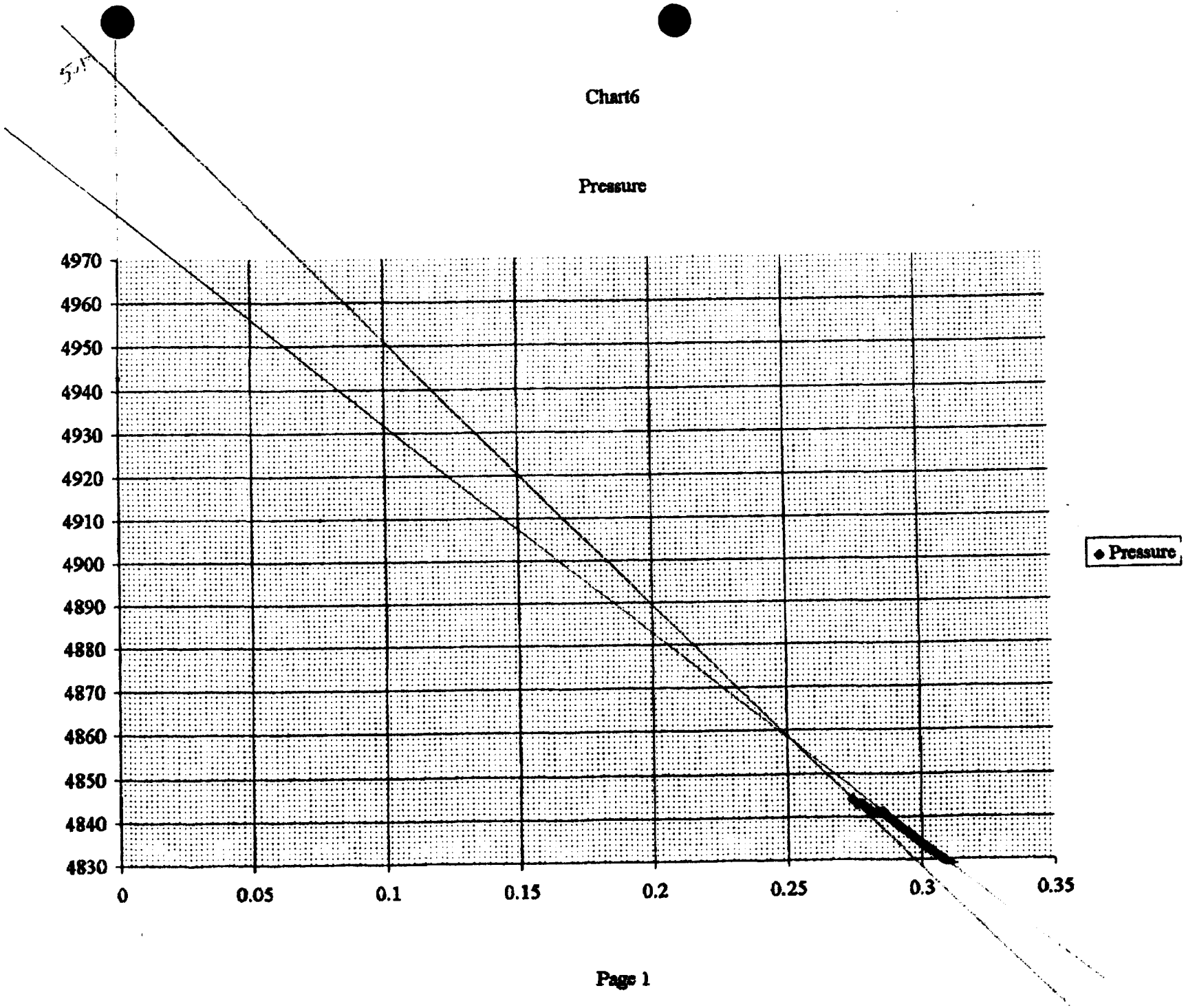
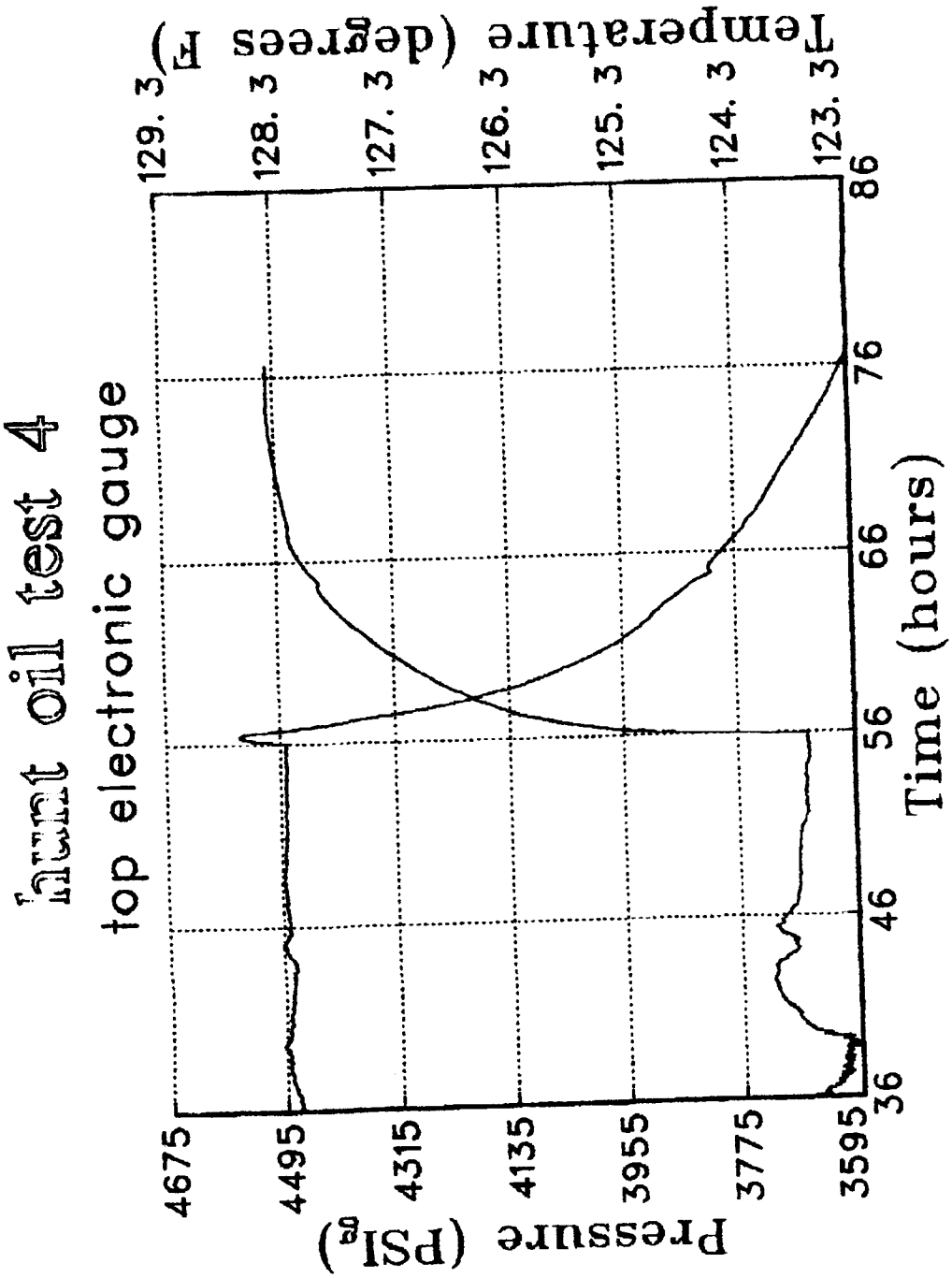
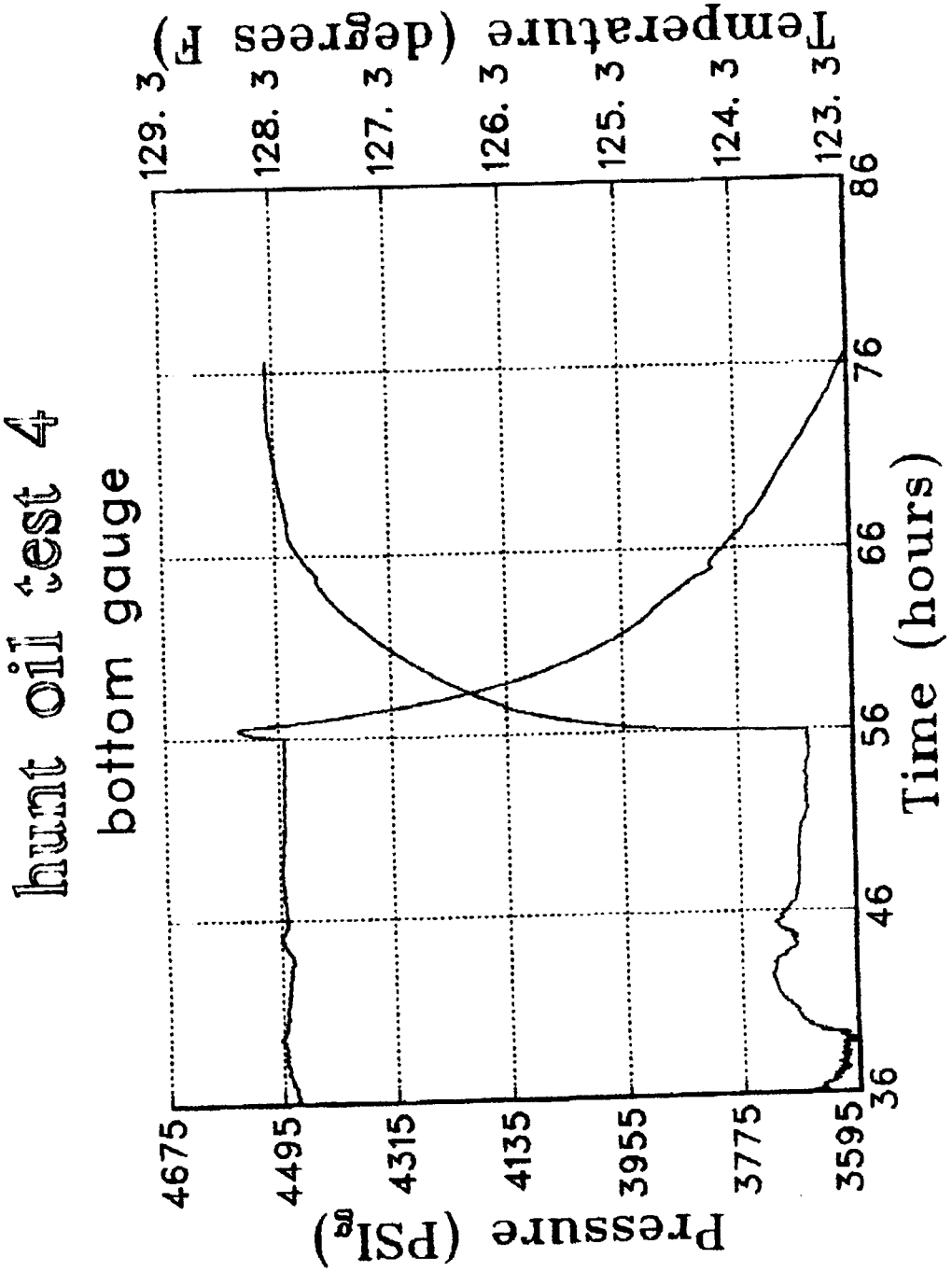
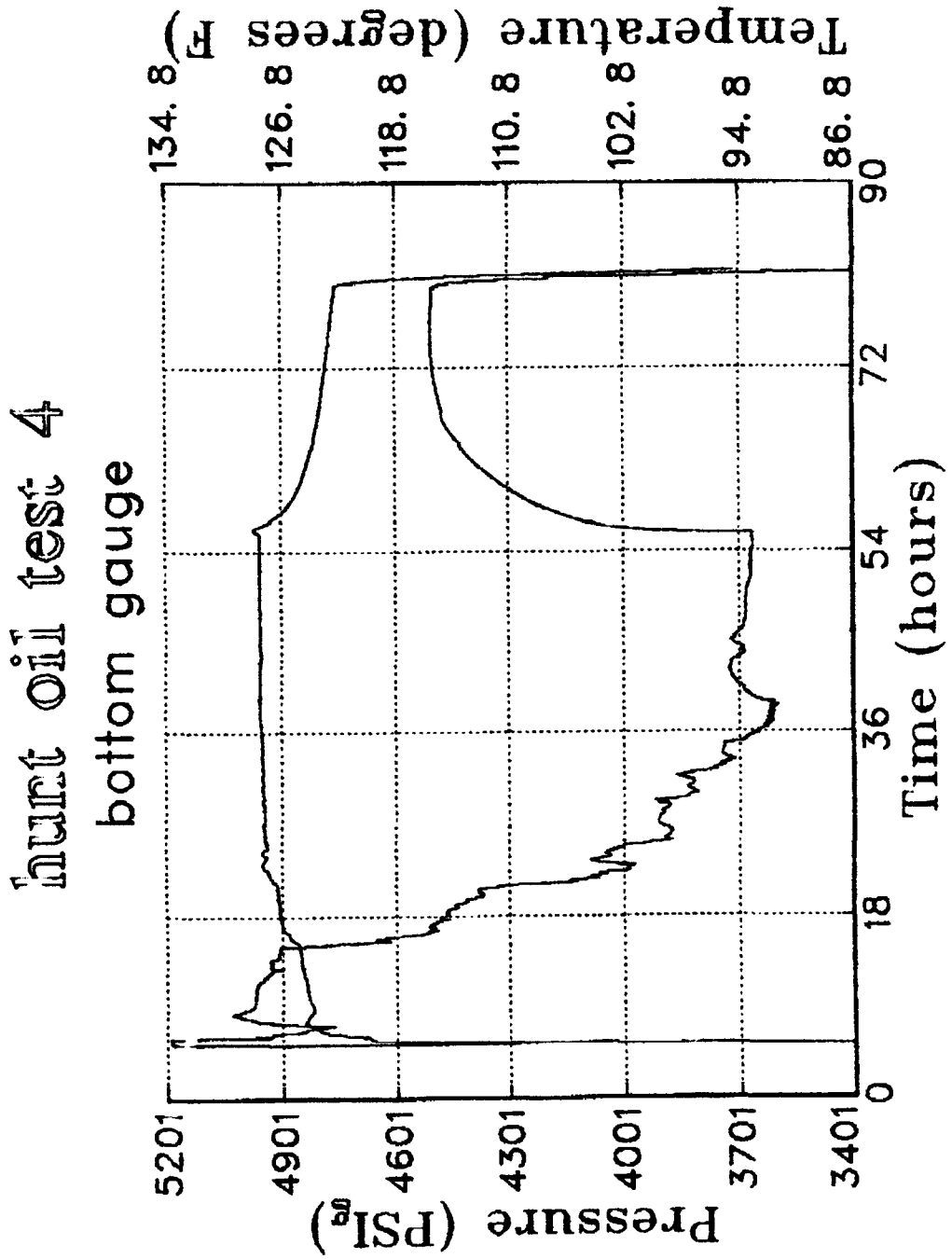


Chart6
Pressure
4970
4960
4950
4940
4930
4920
4910
4900
4890
4880
4870
4860
4850
4840
4830
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
Pressure


Ammt oil test 4
top electronic gauge
Pressure (PSIg)
4675
4495
4315
4135
3955
3775
3595
Temperature (degrees F)
129.3
128.3
127.3
126.3
125.3
124.3
123.3
Time (hours)
36
46
56
66
76
86

RIPGRAPH 3. 1b6 for Z. I. Probes, Edmonton Apr. 22, 1995 03:06:52




Mount Oil test 4
bottom gauge
Pressure (PSIg)
5201
4901
4601
4301
4001
3701
3401
Temperature (degrees F)
134.8
126.8
118.8
110.8
102.8
94.8
86.8
Time (hours)
0
18
36
54
72
90

Data Listing: Every 20th point of the generic data f:l-

Probe Number:
Company:
Well:
Location:
Test Date(s):

Time	Pressure (psig)	Temperature (degrees F)
Tue Apr 18, 1995		
12:19:14	0.000	61.9712
12:39:24	0.000	59.1191
12:59:24	0.000	54.9469
13:19:24	0.000	53.0018
13:39:24	0.000	51.4289
13:59:24	0.000	49.5094
14:19:24	0.000	47.7441
14:39:24	0.000	44.4893
14:59:24	0.000	42.7241
15:19:24	0.000	40.4076
15:39:24	0.000	39.4502
15:59:24	0.000	39.8177
16:19:24	0.000	41.3104
16:39:24	0.000	41.5266
16:59:24	701.643	38.8467
17:03:34	891.947	42.1153
17:12:24	0.000	48.4326
17:17:24	1004.531	49.2891
17:20:44	1487.141	53.5223
17:24:04	2106.670	57.8314
17:27:24	2675.948	63.5657
17:30:44	3283.028	71.2652
17:34:04	3843.382	79.4391
17:37:24	4411.631	88.7114
17:40:44	5051.187	99.0037
17:44:14	5179.705	108.8608
17:47:34	5183.287	114.7019
17:55:54	5187.614	119.7128
18:16:24	5160.808	120.5739
18:20:04	4942.828	120.6659
18:28:34	4971.191	121.7787
18:33:04	4946.672	122.3245
18:40:44	4921.883	123.1869
18:48:04	4912.592	123.6514
18:51:44	4885.402	123.7835
18:57:54	4856.761	123.9608
19:12:24	4835.755	124.3496
19:25:54	4811.572	124.6545
19:29:14	4772.919	124.7214
19:34:24	4795.512	124.8269
19:38:24	4831.306	124.8996
19:43:44	4872.037	125.0117
19:48:24	4902.882	125.0861
19:54:44	4932.455	125.0994
20:00:54	4965.906	125.0666
20:13:14	4976.037	124.9596
20:25:04	5004.554	124.8833
20:40:34	5025.865	124.7617
20:55:24	5011.655	124.6423
21:14:24	4990.920	124.6160
21:34:24	4974.802	124.6575
21:54:24	4974.252	124.8102
22:14:24	4970.738	124.8879
22:34:24	4972.541	124.9372
22:54:24	4968.933	124.9823
23:14:24	4970.158	125.0249
23:34:24	4967.264	125.0612
23:54:24	4959.714	125.0949
Wed Apr 19, 1995		
00:14:24	4949.462	125.1500
00:34:24	4938.869	125.2270
00:54:24	4928.756	125.2921
01:09:24	4915.531	125.3328
01:17:44	4922.269	125.3060
01:35:24	4929.953	125.4328
01:55:24	4928.797	125.4193
02:11:44	4922.925	125.4384
02:25:44	4908.524	125.4586
02:46:24	4910.627	125.4983
03:06:24	4906.133	125.5548
03:25:34	4892.112	125.5934
03:29:14	4846.450	125.6032
03:32:34	4814.663	125.5975
03:36:14	4788.400	125.6076
03:39:34	4759.947	125.6089
03:44:54	4722.371	125.6631
03:48:24	4692.848	125.7857

Time	Pressure (psig)	Temperature (degrees F)
Wed Apr 19, 1995		
03:52:04	4654.382	125.8804
03:59:14	4640.156	125.9885
04:05:54	4643.720	126.0954
04:12:44	4625.692	126.1858
04:19:24	4606.864	126.2296
04:26:14	4571.107	126.2475
04:31:44	4540.728	126.2665
04:43:24	4516.755	126.3996
04:55:44	4504.670	126.5807
05:09:24	4509.841	126.6671
05:21:44	4512.512	126.7325
05:37:24	4501.973	126.7760
05:52:14	4485.650	126.8058
06:05:24	4478.412	126.8294
06:21:54	4473.254	126.9144
06:40:24	4466.406	126.9115
06:59:44	4460.955	126.9151
07:13:44	4441.057	126.9257
07:30:24	4435.300	126.9434
07:42:24	4417.874	126.9735
07:59:44	4408.093	127.0443
08:11:54	4382.547	127.0419
08:27:24	4368.468	127.0294
08:45:24	4381.752	127.0736
08:59:04	4367.068	127.1038
09:04:24	4337.394	127.0749
09:17:34	4313.253	127.0793
09:22:24	4268.423	127.0966
09:26:14	4233.670	127.1325
09:29:34	4196.456	127.1654
09:33:54	4165.553	127.1728
09:38:54	4134.530	127.2302
09:47:04	4126.747	127.3806
09:53:44	4100.374	127.4488
09:58:14	4083.546	127.4523
10:11:14	4081.445	127.5814
10:18:24	4061.437	127.6221
10:26:24	4058.466	127.6409
10:38:24	4044.402	127.7261
10:45:04	3997.849	127.7467
11:03:24	3988.104	127.9479
11:17:14	3978.898	128.0673
11:20:34	4003.567	128.0863
11:24:44	4030.606	128.1091
11:31:34	4062.529	128.1239
11:44:24	4085.918	128.0303
11:55:34	4066.267	127.9058
12:06:14	4042.384	127.8605
12:25:24	4046.616	128.0148
12:42:04	4028.583	128.0715
12:53:44	4017.942	127.8976
13:06:24	4000.054	127.7297
13:16:44	3973.158	127.8019
13:22:44	3941.967	127.7955
13:29:24	3915.027	127.7975
13:36:34	3885.519	127.8208
13:49:34	3887.824	127.9039
14:09:24	3883.952	127.9275
14:29:24	3877.463	127.9320
14:49:24	3879.593	127.9679
15:08:24	3903.841	128.0058
15:28:24	3912.689	127.9898
15:48:24	3909.409	127.9786
16:08:24	3904.466	127.9802
16:28:24	3896.649	127.9789
16:45:44	3887.756	127.9964
17:06:24	3882.699	127.9998
17:20:24	3901.946	128.0484
17:34:44	3904.603	128.0567
17:38:14	3875.696	128.0322
17:44:34	3846.962	127.9635
18:01:24	3831.612	128.0021
18:18:24	3810.261	128.0269
18:37:24	3821.425	128.0602
18:57:24	3835.200	128.0583
19:17:24	3818.707	128.0306
19:37:04	3825.015	128.0591
19:49:54	3849.684	128.0955
20:03:14	3857.294	128.0873
20:07:44	3838.439	128.0615
20:12:04	3820.991	128.0406
20:18:54	3829.102	128.0306
20:24:24	3811.221	128.0358
20:30:44	3796.296	128.0409
20:35:54	3774.545	128.0344
20:39:34	3759.342	128.0259
20:49:34	3761.496	128.0422
20:56:14	3756.204	128.0686
21:01:24	3746.738	128.0738
21:05:44	3741.482	128.0807
21:10:34	3745.330	128.0849
21:15:14	3741.240	128.0937
21:19:34	3738.400	128.0961
21:24:24	3729.188	128.0869
21:29:34	3730.511	128.0910

Time	Pressure (psig)	Temperature (degrees F)
Wed Apr 19, 1995		
21:33:44	3717.279	128.0948
21:38:34	3719.986	128.0956
21:44:24	3718.240	128.0991
21:48:04	3712.245	128.1050
21:59:24	3740.104	128.1309
22:19:24	3744.398	128.1055
22:39:24	3742.450	128.1026
22:59:24	3738.202	128.0974
23:14:14	3731.951	128.1101
23:20:24	3713.969	128.1012
23:24:14	3692.291	128.0905
23:29:04	3685.736	128.0729
23:39:24	3681.981	128.0878
23:51:34	3672.436	128.1286
23:57:24	3662.959	128.1296
Thu Apr 20, 1995		
00:04:54	3657.946	128.1292
00:10:24	3657.031	128.1363
00:16:54	3652.693	128.1343
00:26:24	3649.261	128.1310
00:35:14	3644.015	128.1462
00:41:24	3632.429	128.1463
00:51:34	3630.211	128.1547
00:58:04	3621.682	128.1723
01:04:24	3626.976	128.1751
01:11:34	3625.411	128.1789
01:17:14	3619.442	128.1807
01:23:14	3618.981	128.1898
01:32:14	3617.301	128.1955
01:38:54	3623.858	128.2051
01:45:14	3615.110	128.2134
01:51:44	3612.040	128.2030
01:58:34	3615.615	128.2087
02:04:04	3610.371	128.2176
02:09:24	3611.238	128.2280
02:16:54	3616.767	128.2273
02:23:44	3615.010	128.2274
02:31:04	3612.413	128.2310
02:37:54	3612.577	128.2268
02:47:24	3613.922	128.2391
02:51:24	3602.920	128.2332
02:56:24	3597.532	128.2331
03:00:44	3603.993	128.2248
03:06:34	3609.116	128.2288
03:12:24	3616.999	128.2408
03:17:24	3612.120	128.2524
03:23:14	3615.931	128.2453
03:28:24	3638.657	128.2653
03:33:54	3639.633	128.2790
03:44:44	3661.984	128.2608
04:03:24	3675.644	128.2371
04:23:24	3685.153	128.2234
04:43:24	3687.433	128.2064
05:02:24	3697.919	128.2191
05:22:24	3710.164	128.2062
05:42:24	3716.704	128.1994
06:02:24	3719.229	128.1967
06:22:24	3723.738	128.1948
06:42:24	3723.048	128.1864
07:02:24	3720.404	128.1811
07:22:24	3718.947	128.1758
07:41:24	3705.744	128.1503
08:01:24	3692.031	128.1600
08:21:24	3690.127	128.1949
08:40:54	3691.795	128.2384
08:53:24	3696.508	128.2403
09:01:24	3711.427	128.2591
09:21:24	3720.053	128.2298
09:41:24	3710.781	128.1997
10:01:24	3706.066	128.2039
10:21:24	3697.648	128.2114
10:41:24	3688.521	128.2113
11:01:24	3686.813	128.2187
11:21:24	3684.192	128.2252
11:41:24	3682.856	128.2267
12:01:24	3683.460	128.2331
12:21:24	3681.549	128.2380
12:41:24	3681.981	128.2416
13:01:24	3682.746	128.2368
13:21:24	3682.422	128.2311
13:41:24	3681.270	128.2281
14:01:24	3681.263	128.2302
14:21:24	3679.672	128.2272
14:41:24	3678.486	128.2230
15:01:24	3675.115	128.2173
15:21:24	3671.376	128.2154
15:41:24	3667.629	128.2212
16:01:24	3669.273	128.2198
16:21:24	3669.384	128.2151
16:41:24	3669.308	128.2148
17:01:24	3669.357	128.2188
17:21:24	3667.452	128.2121
17:41:24	3670.535	128.2181
18:01:24	3668.101	128.2105
18:21:24	3666.819	128.2130

Probe Number:

Time	Pressure (psig)	Temperature (degrees F)
Thu Apr 20, 1995		
18:41:24	3663.179	128.2081
19:01:24	3663.186	128.2090
19:21:24	3664.163	128.2156
19:41:24	3666.450	128.2103
20:01:24	3666.673	128.2056
20:05:34	3790.411	128.2556
20:08:54	3843.682	128.3490
20:12:14	3879.167	128.4321
20:15:34	3907.789	128.4948
20:20:14	3937.303	128.5526
20:26:54	3969.917	128.6024
20:33:34	3996.118	128.5872
20:40:14	4021.131	128.4728
20:47:24	4042.768	128.2474
20:57:04	4067.142	127.9605
21:07:04	4089.517	127.7318
21:17:34	4111.387	127.5358
21:32:14	4132.890	127.2817
21:50:14	4155.712	126.9709
22:06:44	4177.647	126.7229
22:26:24	4199.409	126.4825
22:46:24	4219.462	126.2833
23:06:24	4238.146	126.1010
23:26:24	4255.122	125.9375
23:46:24	4270.798	125.7961
Fri Apr 21, 1995		
00:06:24	4285.887	125.6677
00:26:24	4300.524	125.5491
00:46:24	4314.629	125.4350
01:06:24	4327.984	125.3336
01:26:24	4340.340	125.2503
01:46:24	4351.694	125.1657
02:06:24	4362.791	125.0861
02:26:24	4373.171	125.0250
02:46:24	4385.592	124.9800
03:06:24	4395.388	124.9043
03:26:24	4404.865	124.8430
03:46:24	4413.482	124.7675
04:06:24	4421.386	124.6936
04:26:24	4428.439	124.6174
04:46:24	4430.295	124.5063
05:06:24	4435.441	124.4823
05:26:24	4444.527	124.4595
05:46:24	4452.016	124.4077
06:06:24	4458.487	124.3548
06:26:24	4465.000	124.3050
06:46:24	4470.648	124.2535
07:06:24	4474.835	124.1961
07:26:24	4476.445	124.1604
07:46:24	4477.251	124.1251
08:06:24	4478.272	124.0678
08:26:24	4480.507	124.0349
08:46:24	4482.693	123.9989
09:06:24	4484.824	123.9655
09:26:24	4486.935	123.9368
09:46:24	4488.847	123.9022
10:06:24	4490.895	123.8705
10:26:24	4492.844	123.8383
10:46:24	4494.401	123.8030
11:06:24	4496.061	123.7653
11:26:24	4497.656	123.7335
11:46:24	4499.014	123.6947
12:06:24	4500.265	123.6553
12:26:24	4501.483	123.6293
12:46:24	4502.870	123.6010
13:06:24	4504.024	123.5659
13:26:24	4504.900	123.5293
13:46:24	4505.500	123.4974
14:06:24	4505.935	123.4677
14:26:24	4506.086	123.4360
14:46:24	4505.905	123.4061
15:06:24	4505.794	123.3802
15:26:24	4505.870	123.3516
15:46:24	4505.938	123.3278
16:06:24	4506.044	123.3064
16:26:24	4505.941	123.2776
16:46:24	4505.967	123.2496
17:06:24	4505.806	123.2219
17:26:24	4505.591	123.1980
17:46:24	4505.394	123.1691
18:06:24	4505.337	123.1477
18:26:24	4504.552	123.1171
18:46:24	4503.685	123.0921
19:06:24	4503.133	123.0713
19:26:24	4503.632	123.0346
19:46:24	4502.870	122.9913
20:06:24	4496.080	122.9650
20:24:24	4486.850	122.8272
20:41:54	4415.481	121.9356
20:56:54	4327.705	119.7549
21:06:24	4214.475	117.9120
21:18:34	4161.348	114.8727
21:22:44	3858.487	112.5441
21:30:14	3864.100	108.2116
21:34:54	3628.977	106.0653

End buildup @ 20:19

Probe Number:

Time	Pressure (psig)	Temperature (degrees F)
Fri Apr 21, 1995		
21:42:04	3633.853	100.8085
21:48:04	3400.934	97.9949
21:55:34	3406.104	93.1795
22:00:04	3157.013	91.1268
22:08:04	3162.125	86.4130
22:13:14	2905.651	83.9196
22:22:54	2912.074	79.3901
22:28:04	2649.702	76.7508
22:36:04	2474.837	73.4177
22:42:54	2394.230	68.5495
22:49:04	2119.236	66.4379
22:59:24	2098.256	60.7742
23:06:04	1935.479	55.8989
23:13:24	1862.348	52.7794
23:23:24	1861.424	46.6746
23:38:24	0.000	35.4985
23:45:24	0.000	3.8195

Hard Copy of Drawdown & Buildup data — DST #4, Build up #1 Section #1

Z.I.PROBES FIELD REPORT

Please fill this page out completely. Indicate N/A when information is not available to you. Return this form with our probes. Thanks! See backside for important info.

Oil Co. HUNT OIL	Job No. 4
Z.I.Probes should send reports to: Name Dave LuchNER Phone 817-745-9927(res) -5328(mb) Address DALLAS, TX	
Service Company SOLID RESOURCES	
Representative Will Stordy	Phone 709-644-2350
Well Name Port-au-Port #1	
Well Location (LSD) NFLD	
Field	Pool
% H2S Sour	Type of Inhibitor used:
Status: ☐ Oil ☐ Gas ☐ Other:	
Type of Test: ☒ Flow and Buildup ☒ Static Gradient ☐ Interference Other:	

Producing Interval (Perfs of interest)	☐ mKB ☐ mCF
Midpoint of Perfs (MPP of interest)	☐ mKB ☐ mCF
Casing Flange CF m	KB-CF m
Kelly Bushing KB m	Ground Level GL m
Plugged Back Total Depth (PBTD)	☐ mKB ☐ mCF
Total Depth (TD)	☐ mKB ☐ mCF
Production Casing mm	Production Tubing mm

Shut in Dates/Durations

TUBING dead weight Dates/Times	Pressure	CASING dead weight Dates/Times	Pressure
		Apr 12, 95	1,741 psi

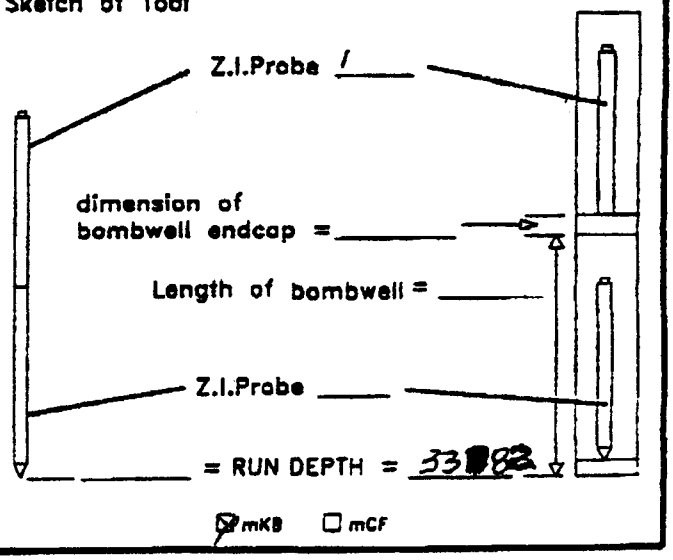
Date/Time On Bottom	Date/Time Off Bottom
Apr 18, 95 17:42 PM	Apr 21, 95 20:14 PM

Static Gradient Depth Table ☐ mKB ☐ mCF

Step	Depth	Start Time of Step	End Time of Step
1	3363	20:20:00	20:30:00
2	3333	20:30:30	20:40:30
3	3273	20:41:03	20:51:03
4	3183	20:53:50	21:03 50
5	3063	21:05:45	21:15:45
6	2763	21:20:05	21:30:05
7	2463	21:33:55	21:43:55
8	2163	21:45:16	21:55:16
9	1863	21:57:52	22:07:52
10	1563	22:10:10	22:20:10
11	1263	22:23:52	22:33:52
12	963	22:35:55	22:45:55
13	663	22:49:05	22:59:05
14	363	23:00:05	23:10:05
15	Surface	23:14:00	23:24:00

If Bombwells Used:

Sketch of Tool



Test #4

Z.I.PROBES FIELD REPORT

Please fill this page out completely. Indicate N/A when information is not available to you. Return this form with our probes. Thanks! See backside for important info.

Oil Co. HUNT OIL | Job No. 4

Z.I.Probes should send reports to:
Name Dave LUCHNER Phone 817. 745-4927 (res) -5328 (mb)
Address DALLAS, TX

Service Company SOLID RESOURCES

Representative Will Stordy | Phone 709-644-2350

Well Name Port-au-Port #1

Well Location (LSD) NFLD

Field | Pool

% H2S Sour | Type of inhibitor used:

Status: ☐ Oil ☐ Gas ☐ Other:

Type of Test:
☒ Flow and Buildup ☒ Static Gradient
☐ Interference Other:

Static Gradient Depth Table ☐ mKB ☐ mCF

Step	Depth	Start Time of Step	End Time of Step
1	3363	20:20:00	20:30:00
2	3333	20:30:30	20:40:30
3	3273	20:41:03	20:51:03
4	3183	20:53:50	21:03 50
5	3063	21:05:45	21:15:45
6	2763	21:20:05	21:30:05
7	2463	21:33:55	21:43:55
8	2163	21:45:16	21:55:16
9	1863	21:57:52	22:07:52
10	1563	22:10:10	22:20:10
11	1263	22:23:52	22:33:52
12	963	22:35:55	22:45:55
13	663	22:49:05	22:58:05
14	363	23:00:05	23:10:05
15	Surface	23:14:00	23:24:00

Producing Interval (Perfs of interest) ☐ mKB ☐ mCF

Midpoint of Perfs (MPP of interest) ☐ mKB ☐ mCF

Casing Flange CF m | KB–CF m

Kelly Bushing KB m | Ground Level GL m

Plugged Back Total Depth (PBTD) ☐ mKB ☐ mCF

Total Depth (TD) ☐ mKB ☐ mCF

Production Casing mm | Production Tubing mm

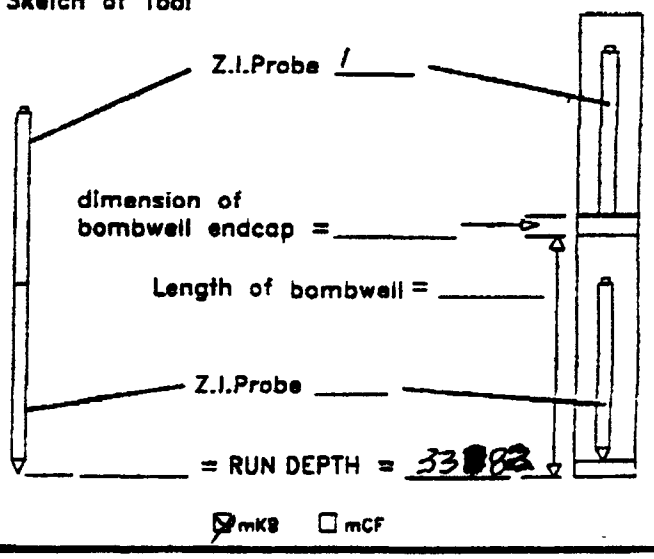
Shut in Dates/Durations

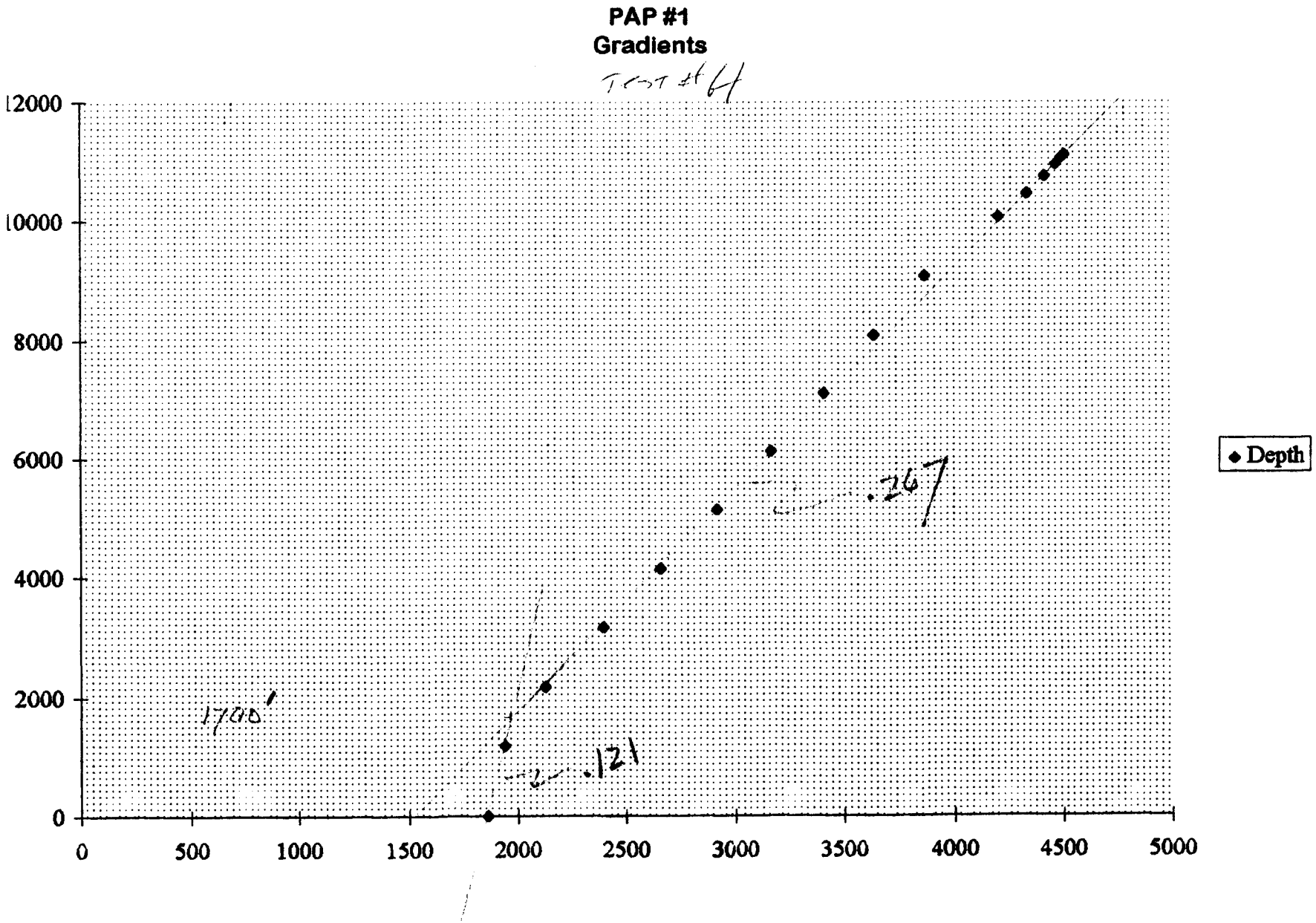
TUBING dead weight Dates/Times	Pressure	CASING dead weight Dates/Times	Pressure
		Apr 12, 95	1,741 psi

Date/Time On Bottom: Apr 18, 95 17:42 PM

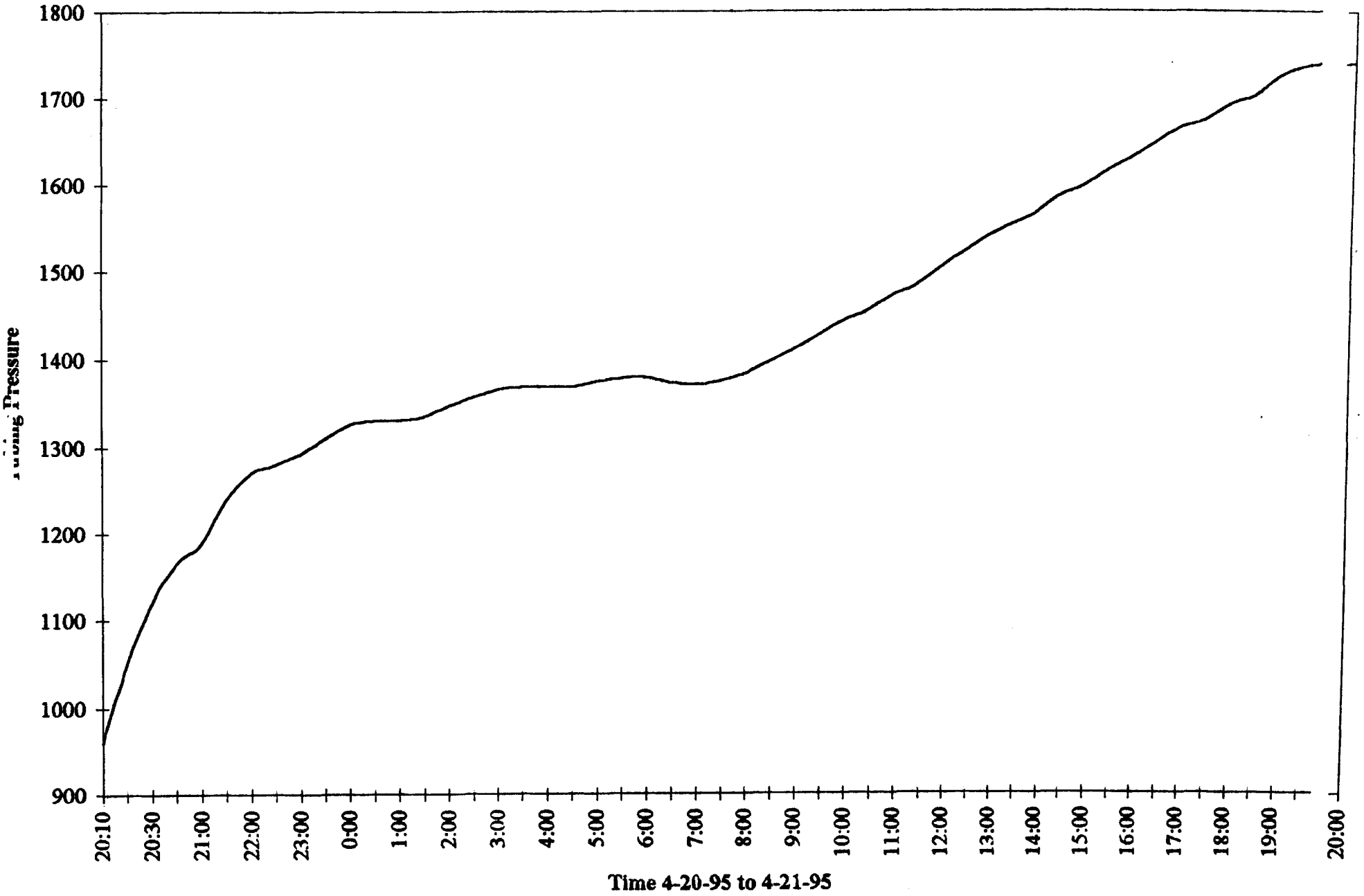
Date/Time Off Bottom: Apr 21, 95 20:19 PM

Sketch of Tool — If Bombwells Used:




PAP #1
Gradients
Test #4
12000
10000
8000
6000
4000
2000
0
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
Depth
1700'
.121
.267

PAP #1 Test #4 Build Up
Surface Pressure



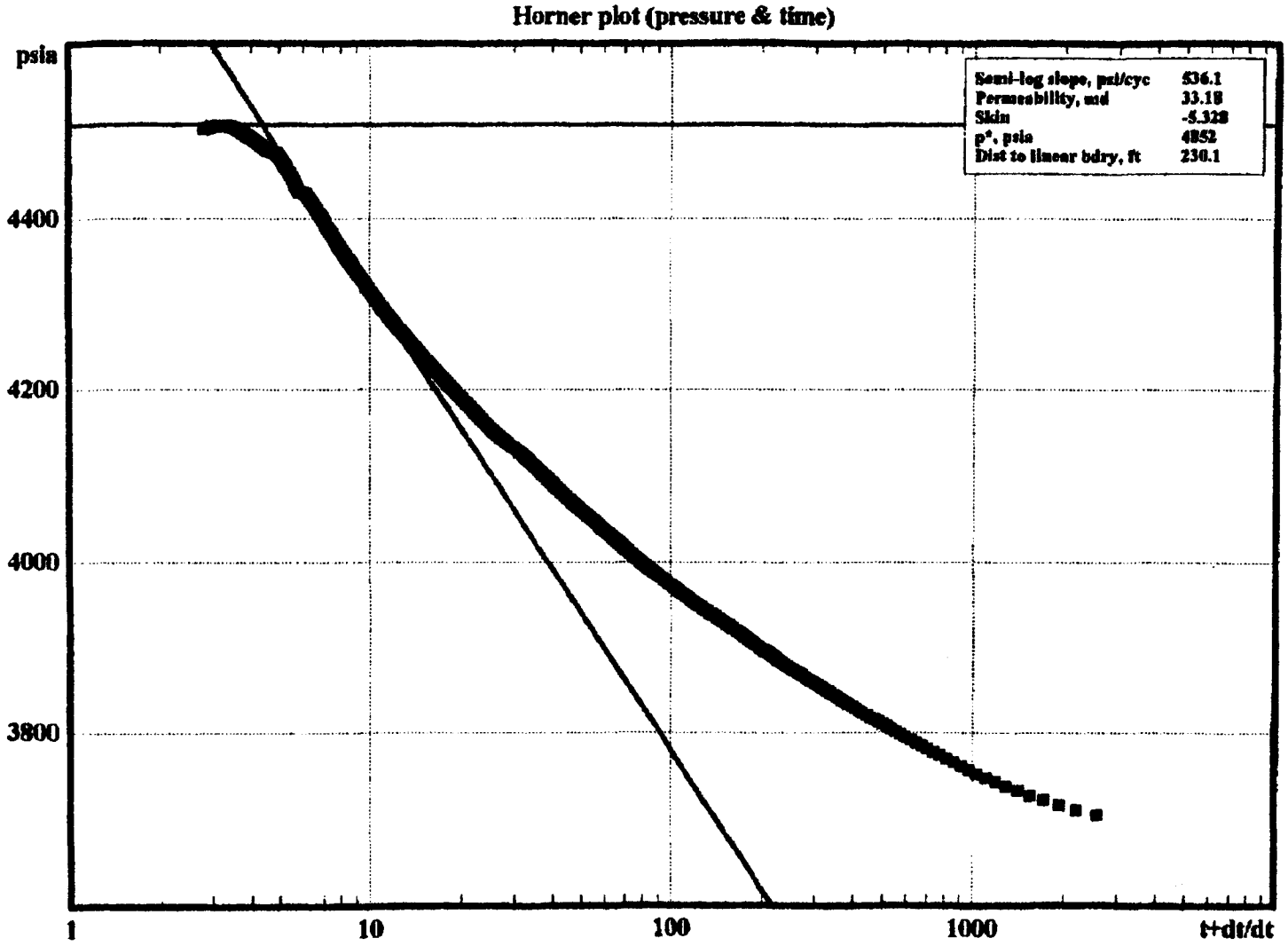

Horner plot (pressure & time)
psia
4400
4200
4000
3800
1
10
100
1000
t+dt/dt
Semi-log slope, psi/cyc 536.1
Permeability, md 33.18
Skin -5.328
p*, psia 4852
Dist to linear bdry, ft 230.1

Figure 1

APR-22-95 SAT 12:59 AM G3

Diagnostic plot (pressure & time)

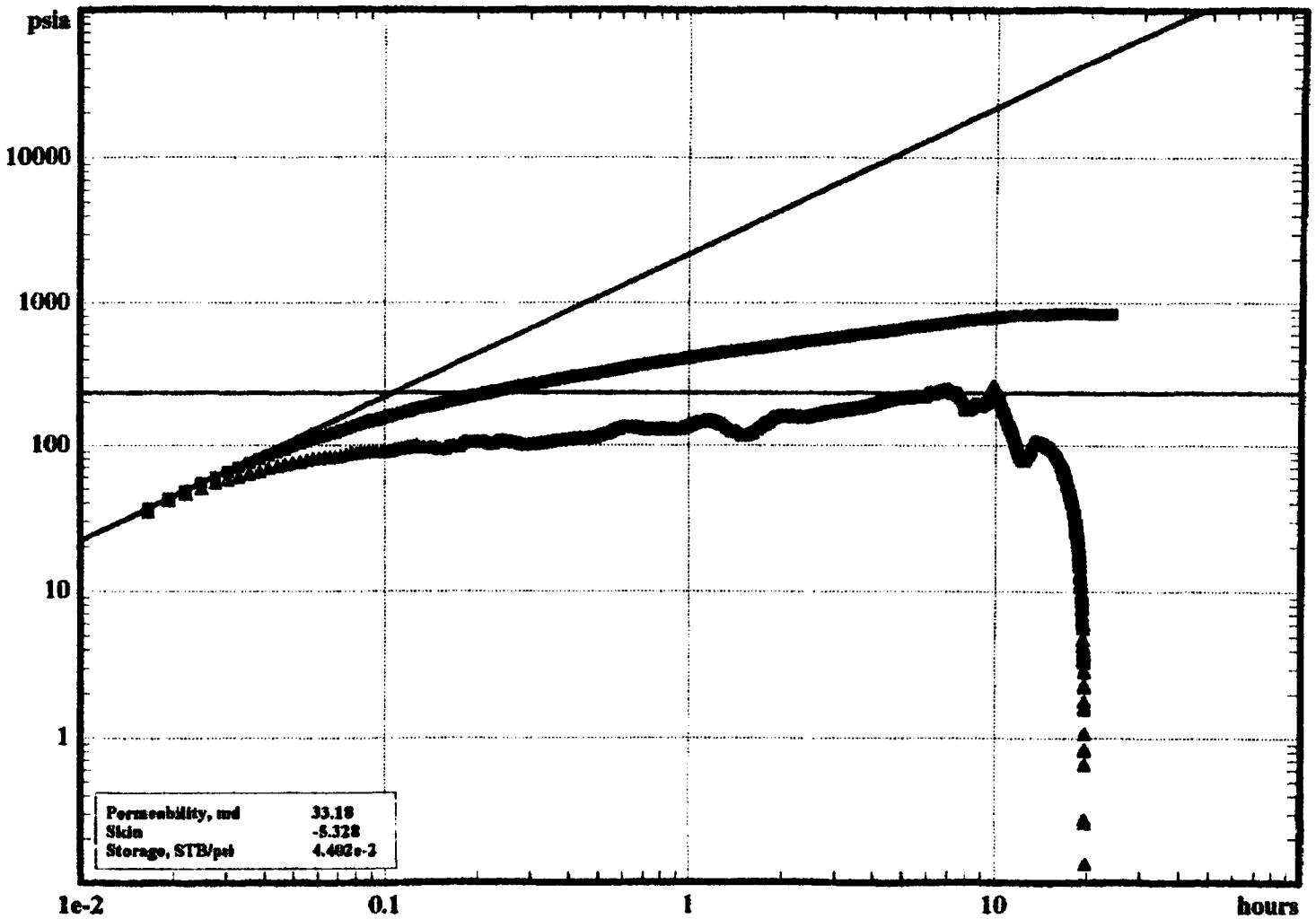


Figure 2

Automate v1.2 - MGI Demo Copy (exp May 15) - 04/21/95 21:54:26

David Lattner

4/21/95 22:02:04

Pressure and flow rate vs time during test sequence

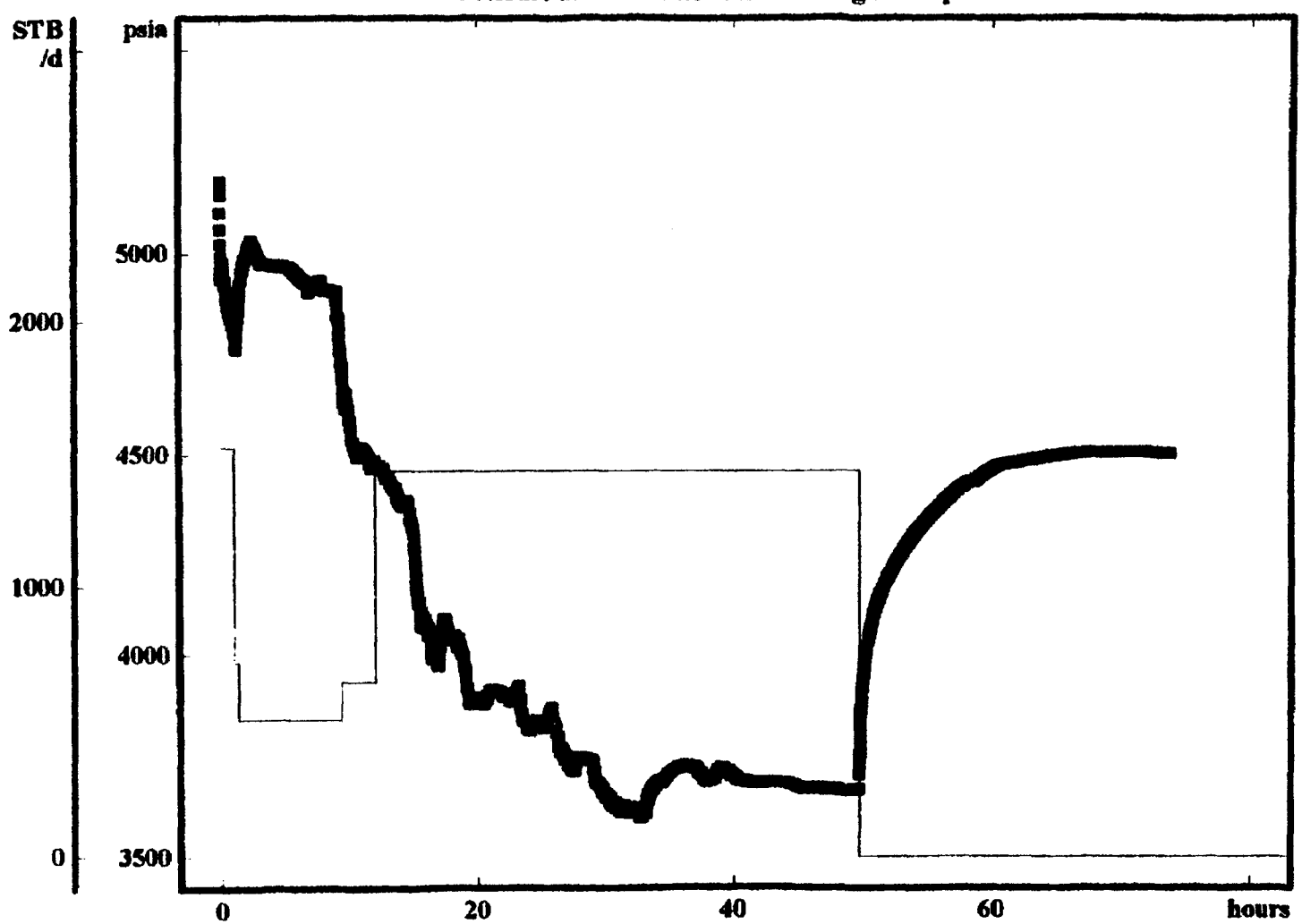


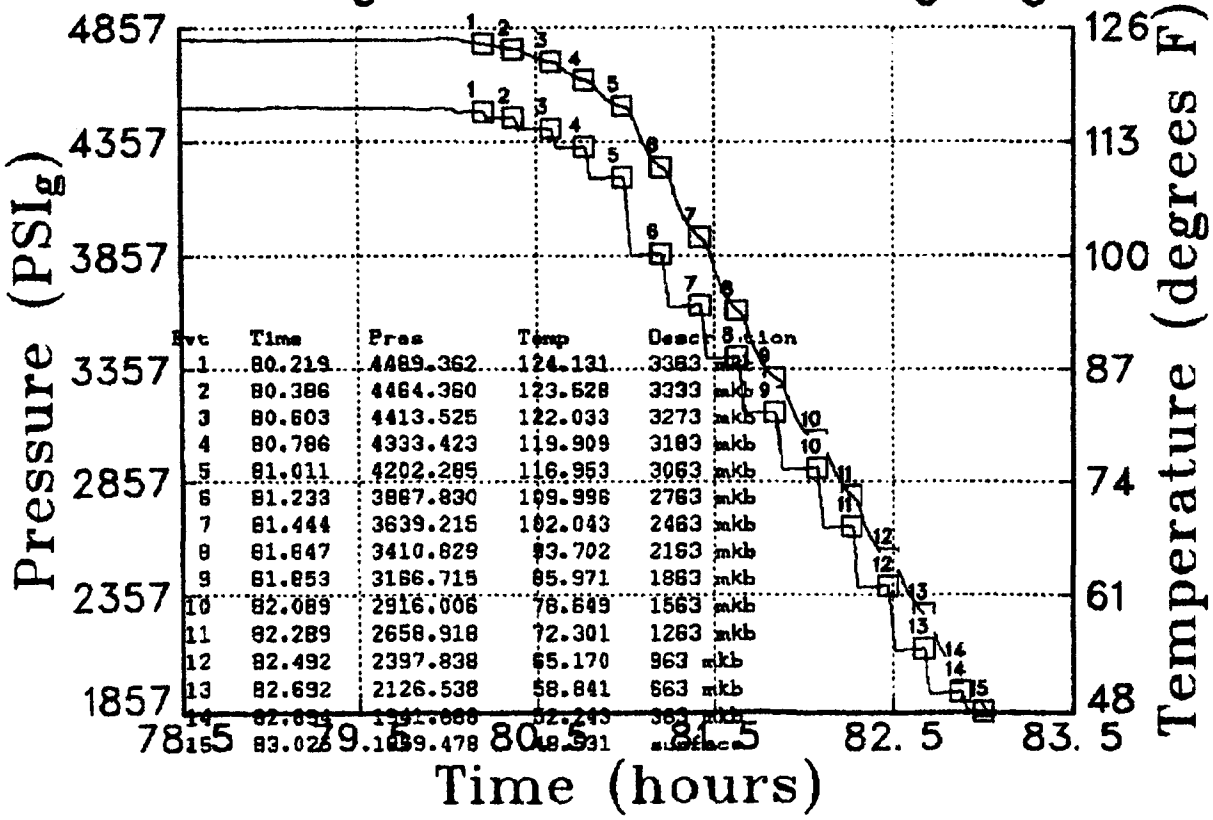
Figure 3

Automate v1.2 - MGI Demo Copy (exp May 15) - 04/21/95 21:57:18

APR-22-95 SAT 12:59 AM G3 P. 4

hunt oil test 4

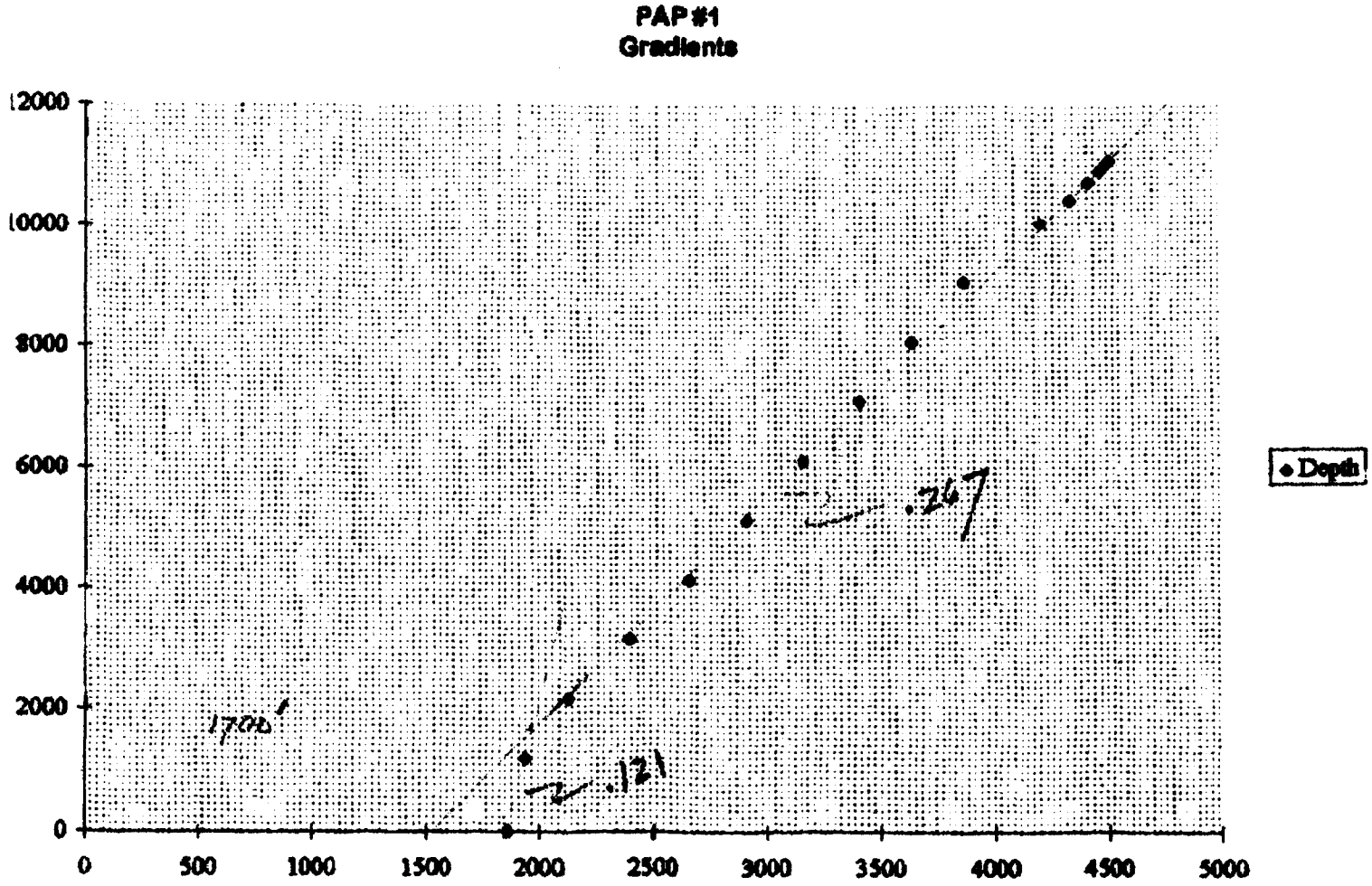
static gradient – bottom gauge

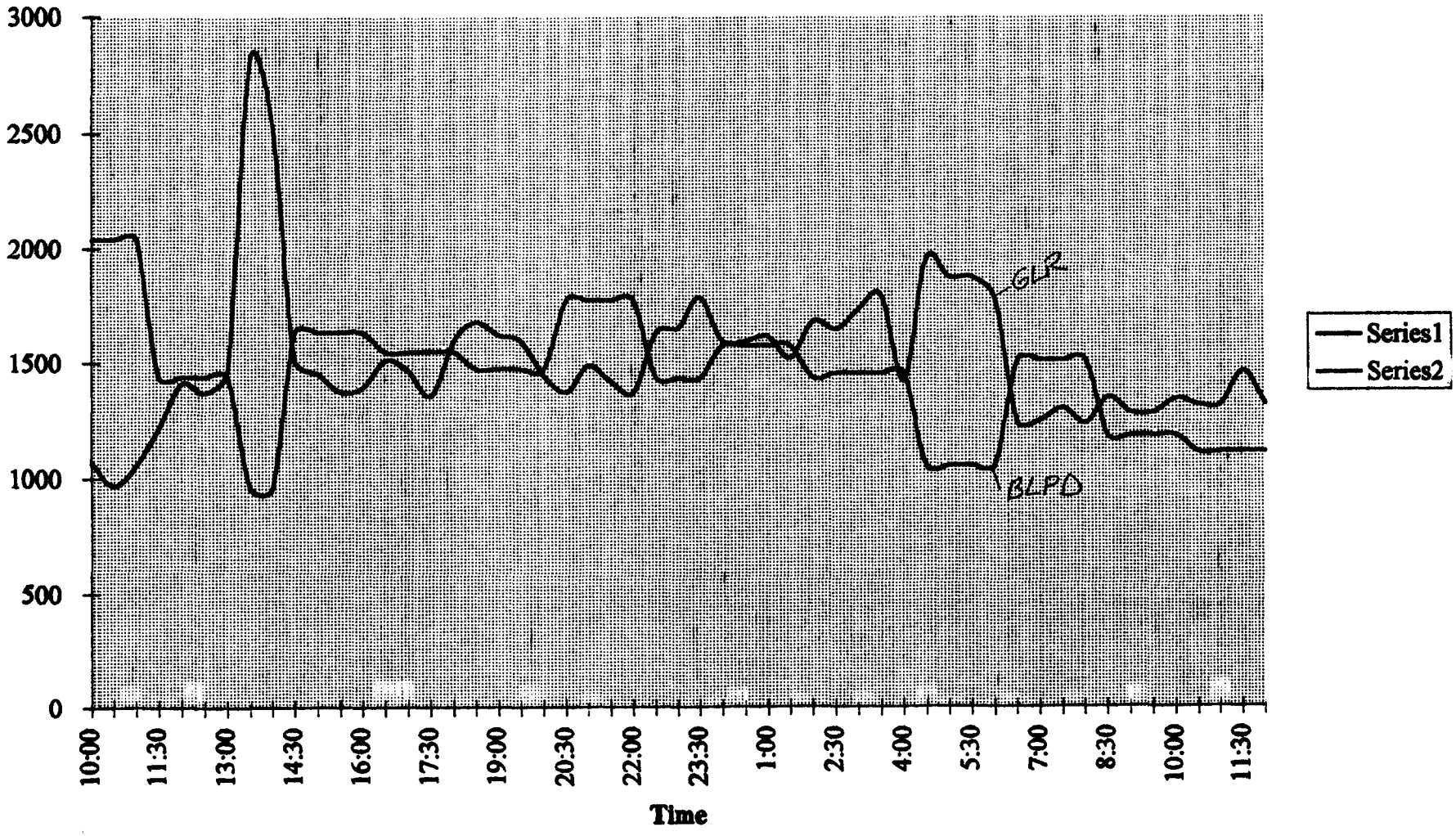


Pvt	Time	Pres	Temp	Description
1	80.219	4489.362	124.131	3383 mkb
2	80.386	4464.360	123.528	3333 mkb
3	80.603	4413.525	122.033	3273 mkb
4	80.786	4333.423	119.909	3183 mkb
5	81.011	4202.285	116.953	3063 mkb
6	81.233	3867.830	109.996	2763 mkb
7	81.444	3639.215	102.043	2463 mkb
8	81.647	3410.829	93.702	2163 mkb
9	81.853	3166.715	85.971	1863 mkb
10	82.089	2916.006	78.649	1563 mkb
11	82.289	2658.918	72.301	1263 mkb
12	82.492	2397.838	65.170	963 mkb
13	82.692	2126.538	58.841	663 mkb
14	82.894	1941.888	52.243	363 mkb
15	83.025	1859.478	48.931	surface

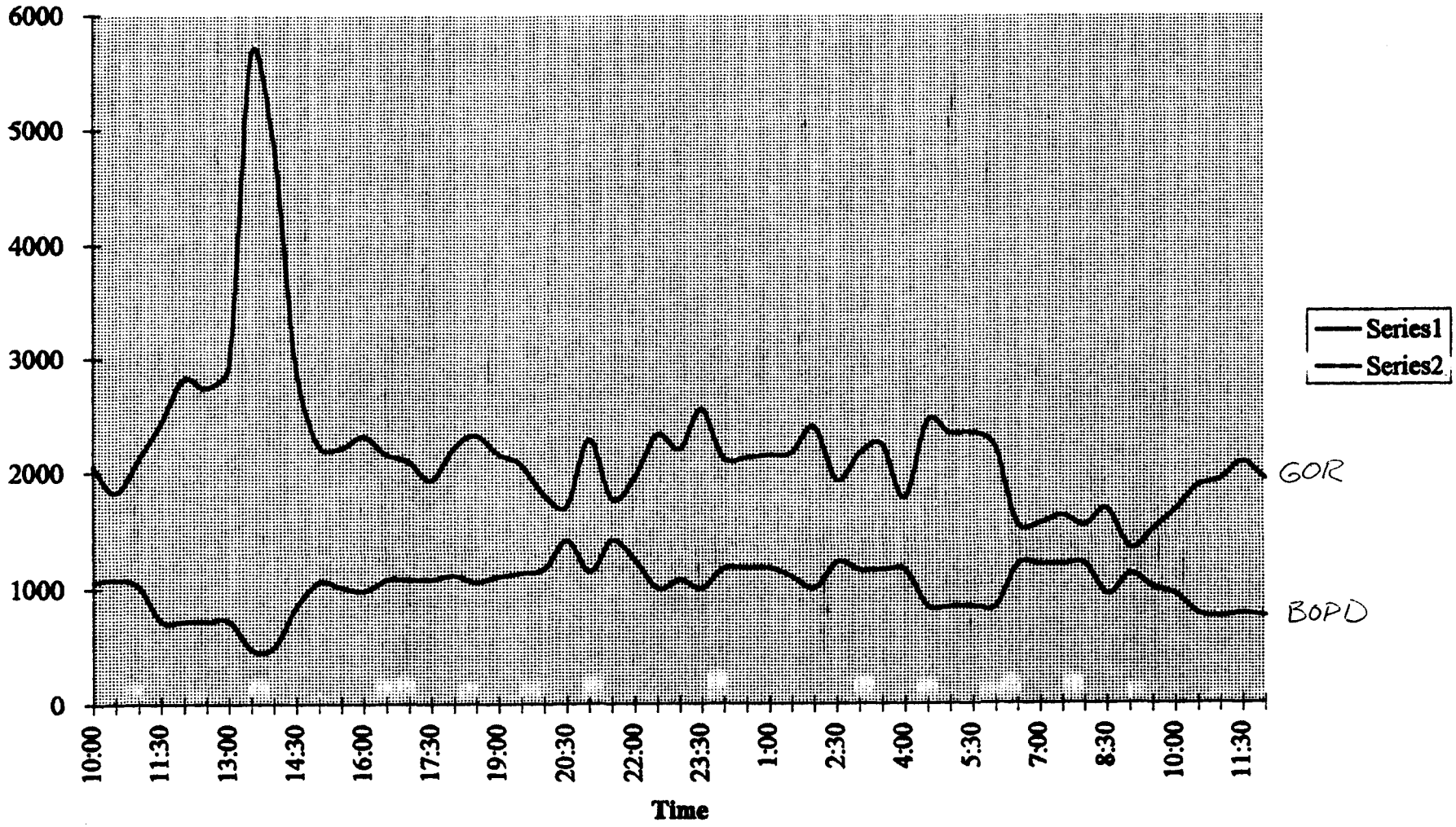
PIPGRAPH 3. 1b6 for Z. I. Probes, Edmonton Apr. 22, 1995 01:54:49

Gradient

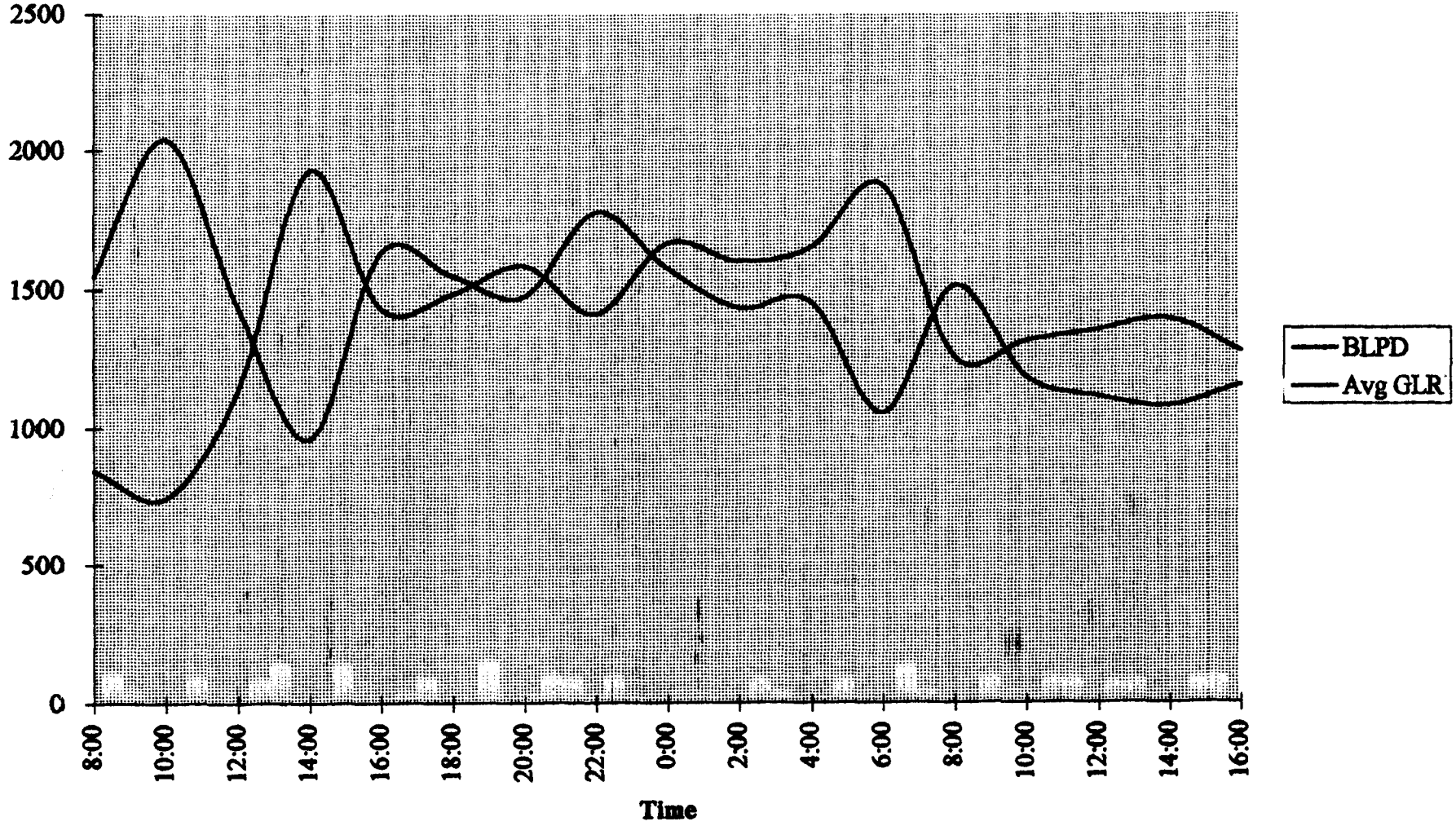

PAP #1
Gradients
12000
10000
8000
6000
4000
2000
0
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
Depth
.247
.121
1704'


GLR & BLPD vs Time
3000
2500
2000
1500
1000
500
0
10:00
11:30
13:00
14:30
16:00
17:30
19:00
20:30
22:00
23:30
1:00
2:30
4:00
5:30
7:00
8:30
10:00
11:30
Time
GLR
BLPD
Series1
Series2

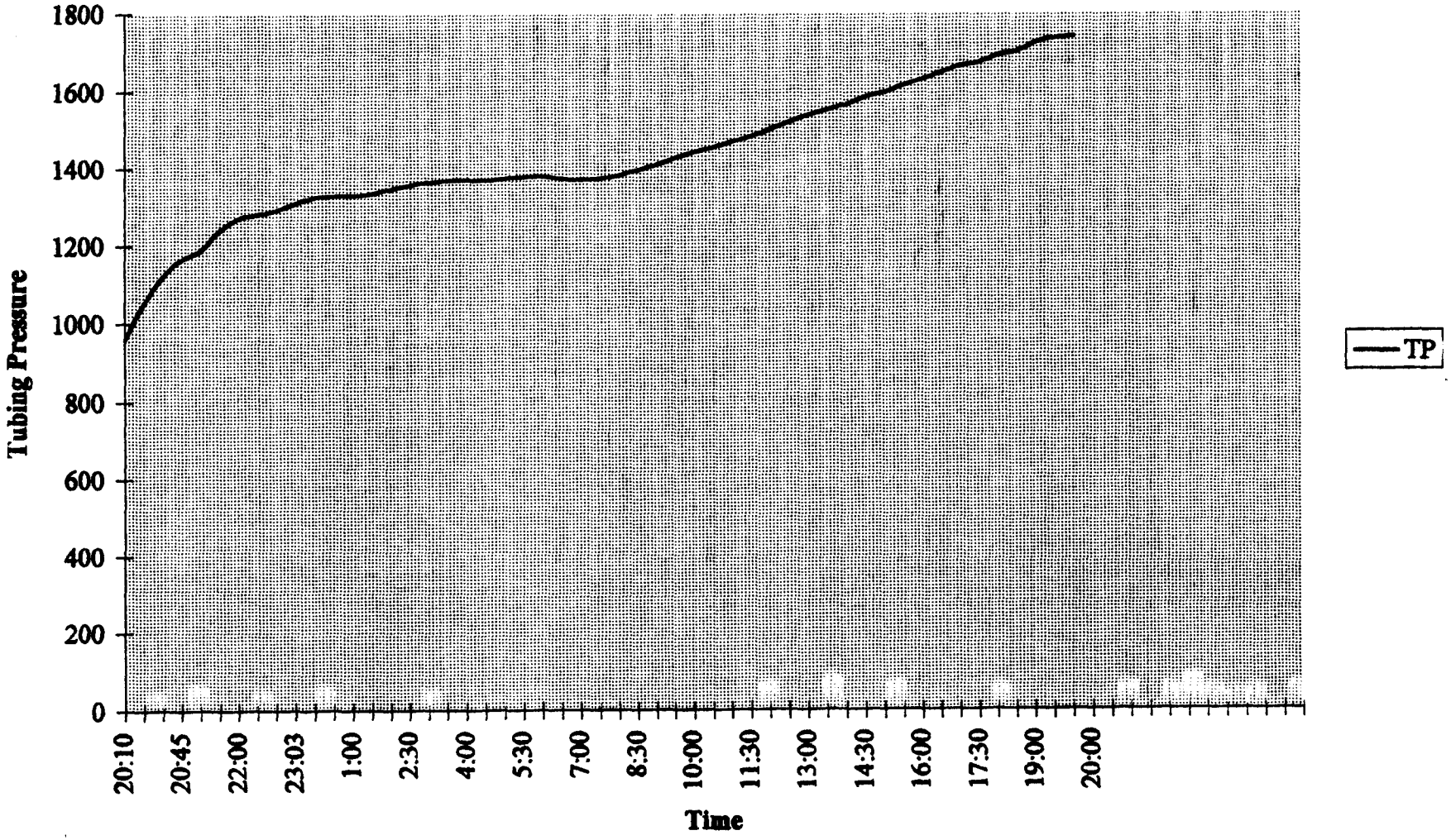
GOR & BOPD vs Time



Avg BLPD & Avg GLR vs Time



PAP #1Test #4 Build up



Apr 8th

Time	FTP	Ck	Bbls	Cum	BPD	Water	Water Bbls	MCFPD	GOR	ph	[illegible]y
18:12	735	0	0	0		0		0			
18:22	420	24	10	10	1440	100	10				
18:29	415	24	10	20	2057	100	20				
18:37	530	24	10	30	1800	100	30				
18:48	570	24	10	40	1309	100	40				
18:59	630	24	10	50	1309	100	50				
19:08	685	24	10	60	1600	100	60				
19:18	715	24	10	70	1440	100	70	750			
19:38	660	17	10	80	720	10	71	840	1296		
20:03	800	18	10	90	576	100	81	320			
20:33	840	18	10	100	480	90	90	320	6667		
20:58	910	18	10	110	576	100	100	370			
21:24	920	18	10	120	554	95	110	490	17694		
21:52	910	18	10	130	514	90	119	490	9528		
22:15	872	18	10	140	626	90	128	460	7347	1	177778
22:46	870	18	10	150	465	80	136	420	4521	4	186667
23:12	897	18	10	160	554	80	144	390	3521	5	177778
23:40	915	18	10	170	514	80	152	390	3792	6	177778
0:10	918	18	10	180	480	80	160	420	4375	6	177778
0:35	918	18	10	190	576	80	168	420	3646	6	177778
1:09	912	18	10	200	424	80	176	510	6021	6	177778
1:31	912	18	10	210	655	80	184	490	3743	5	195556
1:55	913	18	10	220	600	80	192	490	4083	5	195556
2:23	920	18	10	230	514	80	200	490	4764	5	195556
3:00	945	18	10	240	389	80	208	490	6295	5	195556
3:38	820	24	10	250	379	75	216	1440	15200	5.5	204000
4:00	770	24	10	260	655	75	224	910	5561	5.5	204000
4:14	830	24	10	270	1029	75	232	910	3539		
4:30	805	24	10	280	900	73	239	1260	5185	5.5	204000
4:44	805	24	10	290	1029	73	246	1270	4573		
5:00	770	24	10	300	900	50	251	1190	2644		213000
5:30	795	24	10	310	480	75	259	1120	9333	5.5	213000
5:56	790	24	10	310	257	70	266	1240	16074	6	
6:13	783	24	10	320	847	75	274	1180	5572	6	193778
6:30	781	24	18	338	1548	75	288	1250	3230	6	195000
7:00	790	24	32	370	1548	75	312	1210	3127	6	190222
7:30	791	24	32	402	1548	73	335	1340	3206	6	190222

Apr 9th

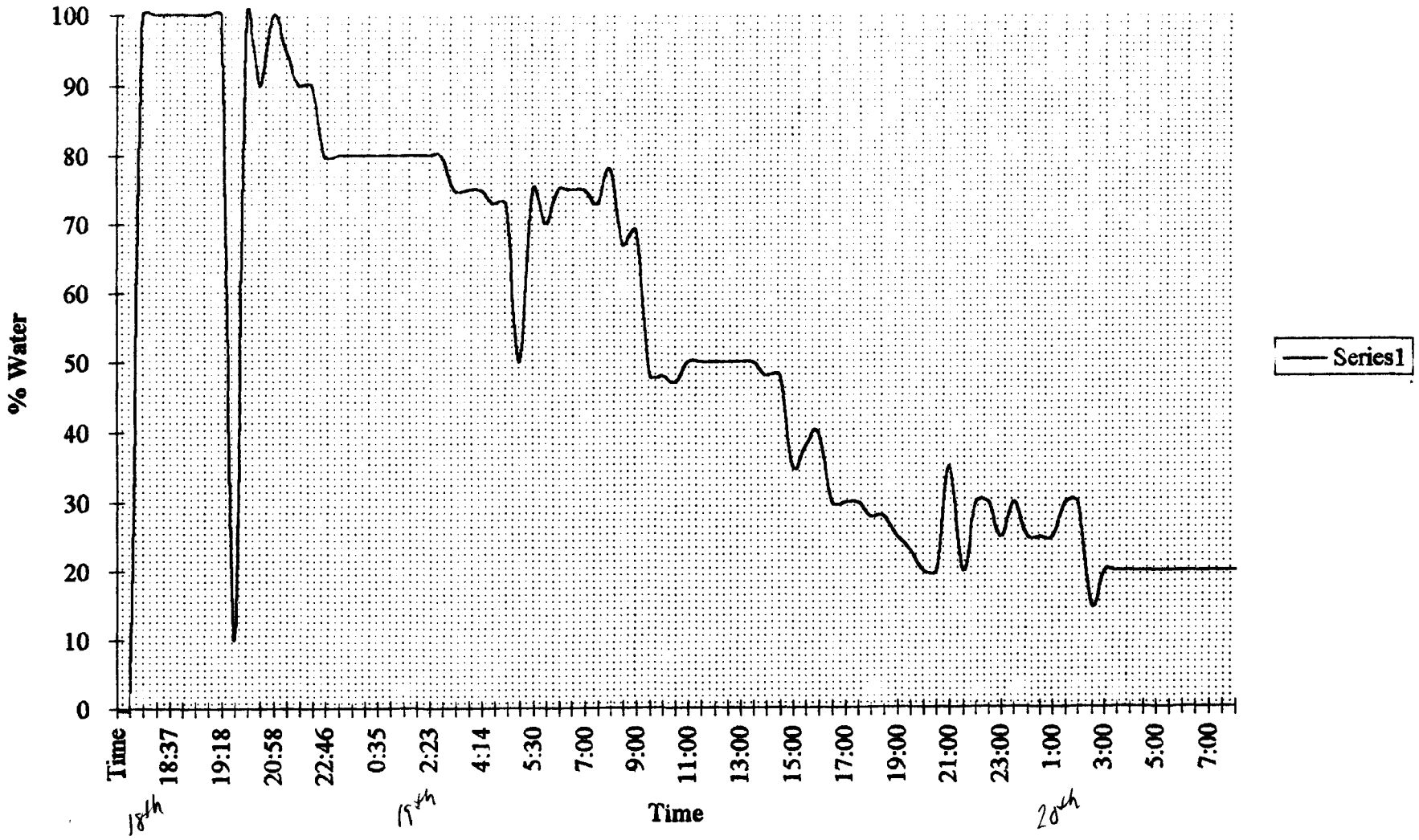
8:00	791	24	32	434	1548	78	360	1430	4199	6	00
8:30	845	24	53	487	2544	67	396	1160	1382	6	192000
9:00	930	24	53	540	2544	69	433	1340	1699	6	195556
9:30	815	28	43	583	2040	48	454	2150	2027	6	204445
10:00	815	28	43	626	2040	48	475	2180	2055	6	213334
10:30	800	28	43	669	2040	47	495	1980	1831	6	215111
11:00	760	28	43	712	2040	50	517	2160	2118	6	210555
11:30	825	24	30	742	1440	50	532	1750	2431	6	210555
12:00	825	24	30	772	1440	50	547	2030	2819	6	213334
12:30	830	24	30	802	1440	50	562	1970	2736	6	213334
13:00	837	24	30	832	1440	50	577	2110	2931	6	216889
13:30	813	27	20	852	960	50	587	2710	5646	6	216889
14:00	785	26	20	872	960	48	597	2450	4908	6	224000
14:30	805	26	34	906	1632	48	613	2470	2911	6	224000
15:00	823	26	34	940	1632	35	625	2370	2234	6	231111
15:30	842	26	34	974	1632	38	638	2240	2214	6	231111
16:00	834	26	34	1008	1632	40	652	2270	2318	6	234667
16:30	840	26	32	1040	1548	30	662	2340	2159	6	247000
17:00	840	26	32	1072	1548	30	672	2270	2095	6	247000
17:30	870	26	32	1104	1548	30	682	2100	1938	5.5	247000
18:00	820	26	32	1136	1548	28	691	2470	2216	5.5	247000
18:30	810	26	31	1167	1474	28	700	2470	2327	6	247000
19:00	800	26	31	1198	1474	25	708	2390	2162	5.5	247000
19:30	780	26	31	1229	1474	23	715	2350	2071	5.5	247000
20:00	775	26	31	1260	1474	20	721	2130	1806	5.5	248889
20:30	775	26	37	1297	1773	20	728	2430	1713	6	248889
21:00	760	26	37	1334	1773	35	741	2640	2291	6	248889
21:30	760	26	37	1371	1773	20	748	2510	1770	6	248889
22:00	750	26	37	1408	1773	30	759	2430	1958	6	248889
22:30	745	26	30	1438	1434	30	768	2340	2331	6	248889
23:00	745	26	30	1468	1434	25	776	2370	2204	6	248889
23:30	760	26	30	1498	1434	30	785	2560	2550	6	248889
Apr 20th 0:00	765	26	33	1531	1574	25	793	2510	2126	6	248889
0:30	765	26	33	1564	1574	25	801	2510	2126	6	248889
1:00	762	26	33	1597	1574	25	809	2540	2152	6	248889
1:30	765	26	33	1630	1574	30	819	2390	2169	6	248889
2:00	765	26	30	1660	1434	30	828	2410	2401	6	248889
2:30	745	26	30	1690	1454	15	833	2390	1934	6	248889

3:[illegible]	720	26	30	1720	1454	20	839	2520	2166	6	[illegible]9
3:30	735	22	30	1750	1454	20	845	2610	2244	6	248889
4:00	747	22	30	1780	1454	20	851	2070	1780	6	248889
4:30	759	22	22	1802	1056	20	855	2070	2450	6	248889
5:00	776	22	22	1824	1056	20	859	1980	2344	6	248889
5:30	770	22	22	1846	1056	20	863	1980	2344	6	248889
6:00	775	22	22	1868	1056	20	867	1880	2225	6	248889
6:30	803	22	32	1900	1512	20	873	1880	1554	6	248889
7:00	828	22	32	1932	1512	20	879	1890	1563	6	248889
7:30	830	22	32	1964	1512	20	885	1970	1629	6	248889
8:00	830	22	32	1996	1512	20	891	1870	1546	6	248889

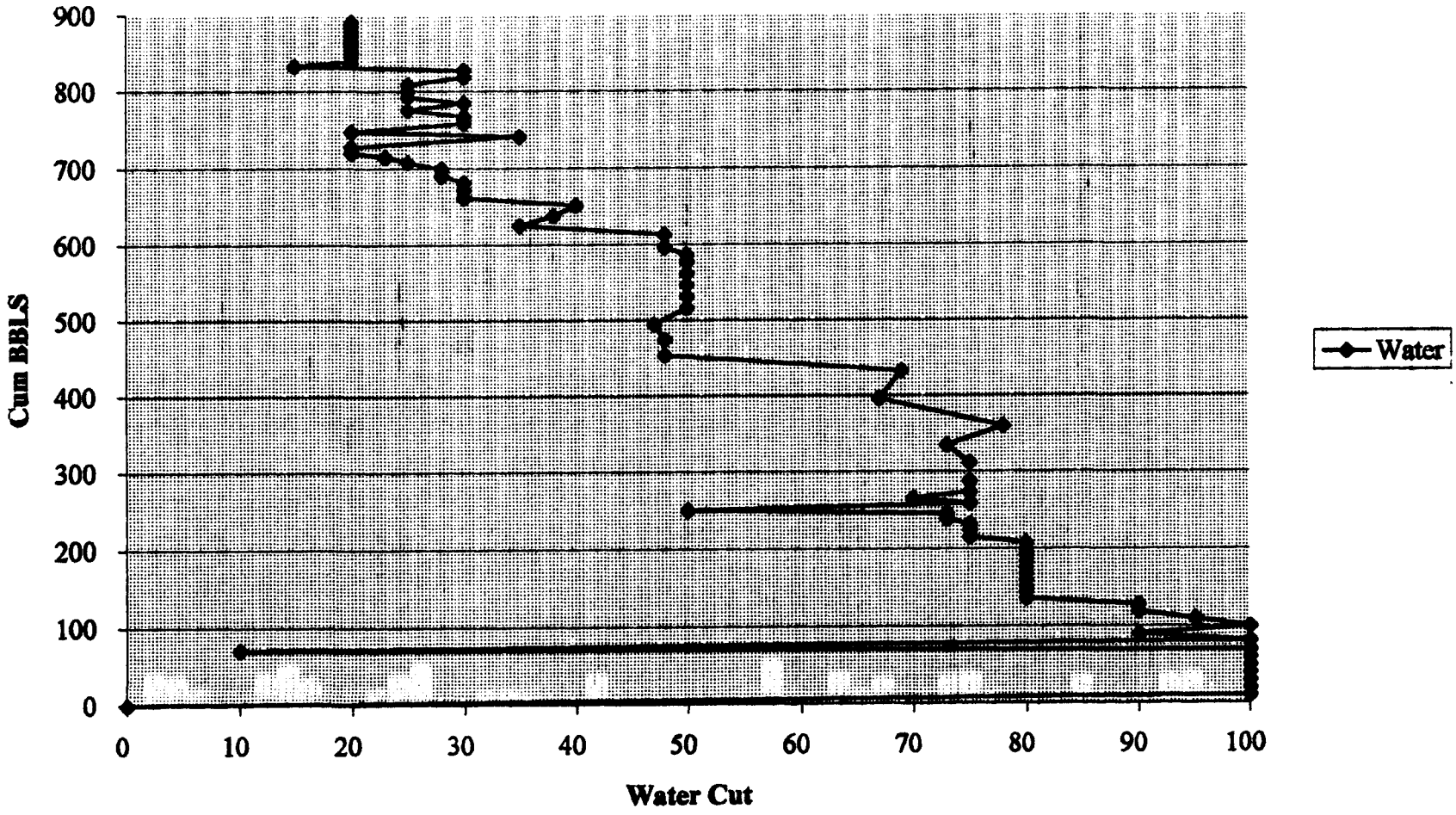
Time	FTP	Ck	Bbls	Cum	BPD	BOPD	% Wtr	BW	MCF/D	GOR	Avg GOR	GLR	AGLR	ph	Salinity	ppg	[illegible]s	Oil
8:00	830	22	32	1996	1512	1210	20	891	1870	1546	1572	1237	1258	6	248889		0.754	
8:30	825	22	25	2021	1185	948	20	896	1600	1688		1350		6	248889			
9:00	810	22	25	2046	1185	1126	5	897	1520	1350		1283		6	248889		0.738	
9:30	810	22	25	2071	1185	1007	15	901	1520	1509		1283		6	248889			49.1
10:00	810	22	25	2096	1185	948	20	906	1590	1677	1546	1342	1314	6	248889		0.744	
10:30	810	22	23	2119	1115	781	30	913	1470	1883		1318		6	248889			
11:00	810	22	23	2142	1115	758	32	920	1470	1939		1318		6	248889		0.743	50
11:30	810	22	23	2165	1115	781	30	927	1630	2088		1462		6	248889			
12:00	805	22	23	2188	1115	758	32	934	1470	1939	1962	1318	1354	7	248889			
12:30	803	22	23	2211	1080	810	25	940	1600	1975		1481		7	248889		0.742	
13:00	798	22	22	2233	1080	821	24	945	1440	1754		1333		7	248889			
13:30	802	22	23	2256	1080	1026	5	946	1500	1462		1389		7	248889			
14:00	803	22	23	2279	1080	810	25	952	1480	1827	1736	1370	1394	7	248889			
14:30	803	22	24	2303	1155	866	25	958	1460	1685		1264		7	248889			
15:00	800	22	24	2327	1155	866	25	964	1480	1709		1281		7	248889			
15:30	800	22	24	2351	1155	866	25	970	1480	1709		1281		7	248889		0.738	
16:00	800	22	24	2375	1155	866	25	976	1480	1709	1703	1281	1277	7	248889	10.20		49.80
16:30	810	22	26	2401	1236	927	25	983	1490	1607		1206		7	248889			
17:00	810	22	26	2427	1236	939	24	989	1490	1586		1206		7	248889			
17:30	810	22	26	2453	1236	964	22	995	1590	1649		1286		7	248889			
18:00	810	22	26	2479	1236	964	22	1001	1580	1639	1621	1278	1244	7	248889			
18:30	810	22	26	2505	1236	964	22	1007	1580	1639		1278		7	248889			
19:00	810	22	26	2531	1236	964	22	1013	1570	1628		1270		7	248889		0.739	
19:30	810	22	26	2557	1236	964	22	1019	1560	1618		1262		7	248889			
Ar 20th 20:00	810	22	26	2583	1236	964	22	1025	1540	1597	1621	1246	1264	7	248889			
12 hr avg	808			587	1174	909	22.6	265	1538	1693		1311						
3 hr Sep	810			150	1200	936	22	264	1570	1677		1308						
Separator Pressure 204 psig																		

W / Tot

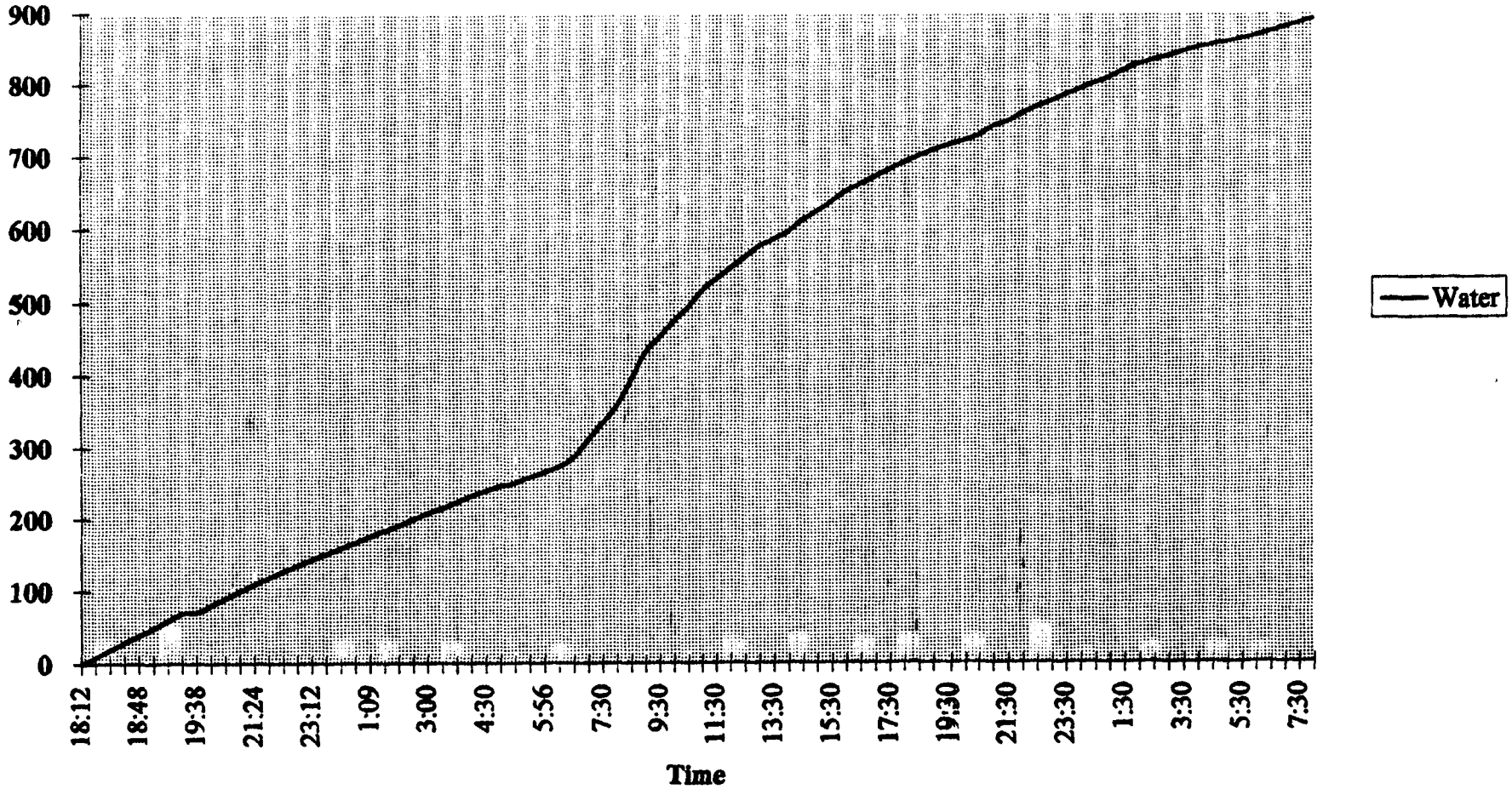
PAP #1 % Water vs Time



PAP #1 Cut Cumlative



PAP #1 Cum Water vs Time



28.174 96 200 12.8
192 6

SOLID RESOURCES LTD.

FIELD DATA

CUSTOMER:
WELL NAME:

PAGE 2.54 JOB # 1.98 dumped from separator
DATE ZONE

FLOWING: TUBING CASING GAS TO: FLARE PIPELINE VENT
TEST INTERVAL M GAS GRAVITY H.S. L.S.

TIME	WELLHEAD DATA			SEPARATOR GAS DATA				FLUID DATA													
				HS MR. / HS M.	mm Orf. / X			Fl Meter # / SIZE / TK #	OIL / FACTOR / TK #	Fl. Meter # / Size / TK #	OIL / FACTOR / TK #	Fl. Meter # / SIZE	FACTOR	H_2O	Fl. Meter # / SIZE	FACTOR					
S.I. UNITS	TUBE PRESS Pga/kPa			LS MR. / LS M.	mm Orf. / X			CAP	m³ m³/mm	OIL DATA		CAP	m³ m³/mm		WATER DATA			SHIPPING		Salinity PPM	BS&W %H_2O
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d	mm	m³	Hrly. Prod. m³	Comm. Prod. m³	mm	m³	Hrly. Water Prod. m³	Cumm. Water Prod. m³	PH	OIL SHP. m³	WATER SHP. m³	G.O.R.	TK. TEMP. DEG. C.
1250		well picking up acid to surface.						1050	4.73						water	cond		NACL			
1330		Salinity 12% PH-0																			
1355		Shut well in						610	2.75	6.2	19.61										
1430	N²	drain H2O to separator																			
1800	Recorders on bottom.							259.	21												
[illegible]	725		445																		
[illegible]																					
45			563												100 HCL						
1910		decrease backpressure meter in service							1.375 inch Plate -												
		Start GOR test																			
1920	715			103	32	6	0.75	21.12							90 Acid	10	0				
1930	DECREASE CHOKE 20/64																				
1938	710			102	41	6	[illegible]	0.84							[illegible]	92%					
2003	805			100	6	6	.32	9.03	[illegible]	Decr Chok 18/64					95%		4				
2030	840			100	6	[illegible]	.32	9.09							90	10	4	18	160.000		
2057	910			102	8	4	.37	10.55							95	5	2				
2115	920			108	13	6	.49	13.74							95	5	4				
(*) 2147	910			100	14	6	.49	13.79							80	5	4				

#2 - 9.1 - 1830
1920 12.1 - 1855
1930 13.1 1925
1938 13.6
2115 15.4

41.59

CUMM. PROD. SINCE (Hrs.)	6.28	LIQUID PRODUCTION: TANK #	TANK #
GAS PRODUCTION (Hrs.)	10E3m³	BALANCE: OIL H_2O	OIL
GAS PRODUCTION COMM.	10E3m³	OPENING GAUGE:	
LIQUID PRODUCTION (Hrs.)		PRODUCTION	
OIL m³ Water	3987 m³	TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m³ Water	m³	CLOSING GAUGE:	

SOLID RESOURCES LTD.

01 50
64

FIELD DATA

(2)

CUSTOMER:
WELL NAME:
FLOWING: TUBING CASING GAS TO: FLARE PIPELINE VENT
TEST INTERVAL M GAS GRAVITY H.S. L.S.

PAGE JOB #
DATE ZONE

TIME	WELLHEAD DATA			SEPARATOR GAS DATA				FLUID DATA														
				HS MR. / HS M.		mm Orf. / X		Fl. Meter # / SIZE / TK #		OIL / FACTOR / TK #		Fl. Meter # / Size / TK #		OIL / FACTOR / TK #		Fl. Meter # / SIZE		H_2O / FACTOR		Fl. Meter # / SIZE		FACTOR
S.I. UNITS	TUBE PRESS Pga/kPa			LS MR. / LS M.		mm Orf. / X	MM	CAP		m^3 / m^3/mm	OIL DATA	CAP		m^3 / m^3/mm	WATER DATA			SHIPPING		Salinity PPM	BS&W %H_2O	
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d		mm	m^3	Hrly. Prod. m^3 / Comm. Prod. m^3		mm	m^3	H_2S	COND	PH	OIL SHIP. m^3	WATER SHIP. m^3	G.O.R.	TK. TEMP. DEG. C.	
22.15	877			102	12	4	0.46		13.92						90	10	1	NACC 20	177.178			
22.46	870			102	10	4	0.47		11.80						80	20	4	21	[illegible]			
2317	897			100	9	6	0.39		11.05						80	20	5	20	177.995			
2340	915			101	9	5	.39		11.17						80	20	6	20	177.778			
0008	918			101	10	6	.42		11.70						80	20	6	20	177.778			
0034	918			101	10	6	.42		11.70						80	20	6	20	177.778			
0103	912			101	15	6	.51		14.33		Fluid weight		9.5	API 49.2@15.6°C	80	20	6	20	177.778			
0126	912			100	14	6	.49		13.79						80	20	5	22	195.556			
0152	913			100	14	6	49		13.79						80	20	5	22	195.556			
0221	920			100	14	4	.49		13.84	Fluid	weight	8.9	API	49.8@15.6°C	80	20	5	22	195.556			
0253	945			100	14	4	.49		13.84	Fluid	weight	9.0			80	20	5	22	195.556			
0320			OPEN CHOKE	20 5/64						Fluid	weight	9.6	(0310 HRS)			3						
0330	9.20														70	30%	6	22.8	202000			
0337	OPEN CHOKE			24/64																		
0339	820			100	120	4	1.44		40.57	Fluid	weight	9.5										
0400	770			100	48	4	91		25.62						75	25	5.5	23	204000			
0414	830			100	48	4	91		25.62													
0430	805			100	92	4	126		35.47						73	27	5.5	23	204000			
0444	805			104	92	8	127		35.83													
0500	770			164	80	8	119		33.41						50	50		24	213000			

300 12.6

CUMM. PROD. SINCE (Hrs.)		LIQUID PRODUCTION:	TANK # / TANK #
GAS PRODUCTION (Hrs.)	10E3m³	BALANCE: OIL H_2O	OIL
GAS PRODUCTION COMM.	10E3m³	OPENING GAUGE:	
LIQUID PRODUCTION (Hrs.)		PRODUCTION	
OIL m^3 Water m^3		TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m^3 Water m^3		CLOSING GAUGE:	

259.87 41.32

3

SOLID RESOURCES LTD.

FIELD DATA

PAGE 9
DATE

JOB #
ZONE

CUSTOMER:
WELL NAME:
FLOWING: TUBING CASING
TEST INTERVAL M

GAS TO: FLARE PIPELINE VENT
GAS GRAVITY H.S. L.S.

TIME	WELLHEAD DATA			SEPARATOR GAS DATA				FLUID DATA														
				HS MR. / HS M.	mm Orf. / X			Fl Meter # / SIZE / TK #	OIL / FACTOR / TK #		Fl. Meter # / Size / TK #	OIL / FACTOR / TK #		Fl. Meter # / SIZE	H_2O / FACTOR		Fl. Meter # / SIZE	FACTOR			
S.I. UNITS	TUBE PRESS Pga/kPa			LS MR. / LS M.	mm Orf. / X			CAP	m³ m³/mm	OIL DATA		CAP	m³ m³/mm	WATER DATA			SHIPPING		Salinity PPM	BS&W %H_2O		
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d	mm	m³	Hdy. Prod. m³	Comm. Prod. m³	mm	m³	Hy. Water Prod. m³	Cumm. Water Prod. m³		OIL SHP. m³	WATER SHP. m³	G.O.R.	TK. TEMP. DEG. C.		
0530	795 psi			103	72	8	1.12	31.56		carry over on FLARE				H_2O 75	Oil 25	pH 5.5	NACL 24	213000				
0550	790			103	88	9	1.24	34.83						70	30	6	21.8	193.778				
0607	783			103	80	9	1.18	33.21	START ON TANK #5 FOR 2 HRS (615 HRS)					75	25	6	21.8	193.778	TR SEC			
0630	781			104	88	10	1.25	35.31						74.8	25	6	22	195.000	0.2			
0700	790			103	84	10	1.21	33.97						75.8	25	6	21.4	190.222	0.2			
0730	791			103	104	10	1.34	37.80						73	25	6	21.4	190.222	2%			
0800	791			100	121	10	1.43	40.75	0815 HRS Flow to tank #6 20.55 m³			129661		78	20	6	21.6	192.000	2	129886		
0830	845			102	78	10	1.16	32.59						67	30	6	21.6	192000	3			
0900	930			102	120	12	1.34	40.29						68.8	30	6	22%	195,556	1.2%			
0915	920	Increase		choke	to 28/64		for Two hours		O/G	Flow to tank #5										10[illegible]	106	1hr
0930	815			102	272	12	2.15	60.65						47.4	54.6	6	28%	204,445	0.4%			
1000	815			102	278	12	2.18	61.32						47.4	52	6	24.0	213,334	0.6%			
1030	800			100	234	12	1.98	55.77						46.8	53	6	24.2	215,111	0.2%			
1100	760			102	271	10	2.16	60.75						49.8	50	6	23.8	210,555	0.2%			
1115	740			decrease choke 24/64 (to maintain 800)					Flow to TANK # 7			Tank #5 (22.15 m³) 170 BBLS								170 BBL	2hr	
1130	825			103	176	10	1.75	49.17						49.8	50	6	23.8	210,555	0.2%			
1150	845	Increase choke to maintain 800 psi																				

1 hour

CUMM. PROD. SINCE (Hrs.)		LIQUID PRODUCTION: TANK #	TANK #
GAS PRODUCTION (Hrs.)	10E3m³	BALANCE: OIL H_2O	OIL
GAS PRODUCTION COMM.	10E3m³	OPENING GAUGE:	
LIQUID PRODUCTION (Hrs.)		PRODUCTION	
OIL m³ Water m³		TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m³ Water m³		CLOSING GAUGE:	

(4)

SOLID RESOURCES LTD.

FIELD DATA

CUSTOMER:
WELL NAME:
PAGE — JOB #
DATE — ZONE
FLOWING: TUBING — CASING
TEST INTERVAL — M
GAS TO: FLARE — PIPELINE — VENT
GAS GRAVITY H.S. — L.S.

TIME	WELLHEAD DATA			SEPARATOR GAS DATA				FLUID DATA															
				HS MR. / HS M.		mm Orf. / X		Fl Meter # / SIZE / TK #		OIL FACTOR / TK #		Fl. Meter # / Size / TK #		OIL FACTOR / TK #		Fl. Meter # / SIZE		H2O FACTOR		Fl. Meter # / SIZE		FACTOR	
S.I. UNITS	TUBE PRESS Pga/kPa			LS MR. / LS M.		mm Orf. / X		CAP		m³ / m³/mm	OIL DATA	CAP		m³ / m³/mm		WATER DATA			SHIPPING		Salinity PPM	BS&W %H2O	
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/H	mm	m³	Hrly. Prod. m³	Comm. Prod. m³	mm	m³			Hrly. Water Prod. m³	Comm. Water Prod. m³	pH	OIL SHP. m³	WATER SHP. m³	G.O.R.	TK. TEMP. DEG. C.	
1200	825			104	235	10	2.03	57.06								H2O 49.7	OIL 50	6	NAIL 24.	213,334	0.2		
1230	830			104	223	10	1.97	55.58								50	49.4	6	24	213,334	0.6		
1300	837			104	255	10	2.11	52.44								49.8	50	6	24.4	216,889	.2		
1315	855	Switch To Tank #5		Increase Choke To				27/64	Change orifice plate to 1.6							25	Switch to TANK #5						
1330	813			105	210	10	2.71	76.36								49.7	50	6	24.4	216,889	.3		
1340	785	decrease		Choke To		26/64																	
1400				105	172	10	2.45	69.12	Switch Tanks to #2							47.8	52	6	25.2	224,000	.2		
1415		Switch To		Tank #4	4	0/8	3' for	Two hours															
1430	805			105	175	10	2.47	69.72		API	48.7 @ 15.6°C					47.8	52	6	25.2	224,000	.2		
1500	823			105	169	10	2.37	66.67								34.8	65	6	26.0	231,111	.2		
1530	842			105	144	10	2.24	63.25								32.8	62	6	26.0	231,111	.2		
1600	834			105	146	8	2.27	63.91								39.9	60	6	26.4	234,667	.1		
1615	Switch To Tank #4			3 for	Two hours			(9'10" from 3' in Two hours. Tank #4)															

120 bbl/2hrs
25 bbls/45min
15bbls/15m
136.6 l/hr

CUMM. PROD. SINCE (Hrs.)		LIQUID PRODUCTION: TANK #	TANK #
GAS PRODUCTION (Hrs.)	10E3m³	BALANCE: OIL H2O	OIL
GAS PRODUCTION COMM.	10E3m³	OPENING GAUGE:	
LIQUID PRODUCTION (Hrs.)		PRODUCTION	
OIL m³ Water m³		TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m³ Water m³		CLOSING GAUGE:	

SOLID RESOURCES LTD.

8/6

FIELD DATA

(5)

CUSTOMER:
WELL NAME:
FLOWING: TUBING CASING GAS TO: FLARE PIPELINE VENT
TEST INTERVAL M GAS GRAVITY H.S. L.S.

PAGE JOB #
DATE ZONE

TIME	WELLHEAD DATA			SEPARATOR GAS DATA				FLUID DATA														
	#5			HS MR. / HS M. mm Orf. X				Fl Meter # / SIZE / TK # OIL FACTOR TK #				Fl. Meter # / Size / TK # OIL FACTOR TK #				Fl. Meter # / SIZE H₂O FACTOR				Fl. Meter # / SIZE FACTOR		
S.I. UNITS	TUBE PRESS Pga/kPa			LS MR. / LS M. mm Orf. X				CAP m³ m³/mm			OIL DATA		CAP m³ m³/mm			WATER DATA			SHIPPING		Salinity PPM	BS&W %H₂O
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d		mm	m³	Hrly. Prod. m³	Comm. Prod. m³		mm	m³	Hrly. Water Prod. m³	Cumm. Water Prod. m³	PH	OIL SHP. m³	WATER SHP. m³	BS+C B.O.R.	TK. TEMP. DEG. C.
1630	840			105	155	8	2.34		65.85							+H2O	OIL		NACL	PPM		
1700	840			105	146	8	2.27		63.71							29%	30	6	22.8	247,000	.1	
1730	870	Back	Choke	105	125	8	2.10		59.14							29.9	70	6	27.8	247,000	.1	
1800	820			105	172	7	2.47		69.49							27.9	72	5.5	28.0	248,000	.1	
1815		Switch To Tank #4																				
1830	810			105	172	6	2.47		69.62							28.9	72	6	25	248,000	.1	
1900	800			104	162	5	2.39		67.40							28.8	75	5.5	28.2		.2	
1930	780			104	156	5	2.35		66.14							27.9	77	5.5	28.8		.1	

CUMM. PROD. SINCE (Hrs.)		LIQUID PRODUCTION: TANK #	TANK #
GAS PRODUCTION (Hrs.)	10E3m³	BALANCE: OIL H₂O	OIL
GAS PRODUCTION COMM.	10E3m³	OPENING GAUGE:	
LIQUID PRODUCTION (Hrs.)		PRODUCTION	
OIL m³ Water	m³	TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m³ Water	m³	CLOSING GAUGE:	

1.66 IN - BBLS.

(#4) 16.7

.772
.764

(6)

SOLID RESOURCES LTD.

FIELD DATA

49.9 @ 18°C

13.8 272.24
122.84

CUSTOMER:
WELL NAME:
FLOWING: TUBING CASING
TEST INTERVAL M

PAGE JOB #
DATE APRIL 19 - 20. 95 ZONE

GAS TO: FLARE PIPELINE VENT
GAS GRAVITY H.S. .764 L.S.

TIME	WELLHEAD DATA			SEPARATOR GAS DATA				FLUID DATA																
				HS MR. / HS M.		mm Orf. / X		Fl Meter # / SIZE / TK #		OIL FACTOR / TK #		Fl. Meter # / Size / TK #		OIL FACTOR / TK #		Fl. Meter # / SIZE		H₂O FACTOR		Fl. Meter # / SIZE		FACTOR		
S.I. UNITS	TUBE PRESS Pga/kPa			LS MR. / LS M.		mm Orf. / X		CAP		m³ / m³/mm	OIL DATA		CAP		m³ / m³/mm	WATER DATA			SHIPPING			Salinity PPM	BS&W %H₂O
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d		mm	m³	Hrly. Prod. m³	Comm. Prod. m³		mm	m³	Hrly. Water Prod. m³	Cumm. Water Prod. m³		OIL SHP. m³	WATER SHP. m³	G.O.R.		TK. TEMP. DEG. C.
0759			SLUGGING FLUID									0/6	C/6	TANK #3		H2O	OIL	PH	NACL	Sa. PPM	BS+W		
0800	777			105	128	6	2.13		60.06	TANK #3		7.6" =	13.8	122.84		20%	80%	5.5	28+	248.889	.1%		
0830	775			105	166	6	2.43		68.39							20%	80%	6	28+	248.889	TR-SED		
0900	760			103	200	6	2.64		74.44							35%	65%	6	28+	248.889	TR-SED		
0930	760			103	180	6	2.51		70.63							20%	80%	6	28+	248.889	TR-SED		
0956		DECREASE	BACKPRESSURE						STOPPED SLUGGING														
2000	750			100	173	6	243		68.34	TANK #5		7.3" =	14.8	147.74		30%	70%	6	28+	248.889	TR-SED		
2030	745			100	160	4	234		65.96			API 49.5@	15.6°C			30%	70%	6	28+	248.889	TR SED		
2100	745			100	164	4	2.37		66.78							25%	75%	6	28+	248.889	TR-SED		
2330	760			100	192	4	2.56		72.26							30%	70%	6	28+	248.889	—		
0000	765			100	184	4	2.51		70.74	TANK #6		9.5	15.5	119.52		25%	75%	6	28+	248.889	—		
0030	765			100	189	4	2.54		71.69							25%	75%	6	28+	248.889	—		
0045	INCREASE BACKPSI																						
0100	762			148	118	4	239		67.47							25%	75%	6	28+	248.889	TR-SED		
0130	765			148	120 ADJ	4	2.41		68.04							30%	70%	6	28+	248.889	—		
0200	765			149	118	4	2.39		67.47	TANK #3		1.0	7.7	119.52		30%	70%	6	28+	248.889	—		
0230	745			149	130	4	2.52		71.04					131.141		15%	85%	6	28+	248.889	TR-SED		
0300	720			149	139	4	2.61		73.45							20%	80%	6	28+	248.889	TR-SED		
0316		CUT CHOKE	27/64																				
0330	735			149	108	4	2.30		64.75							20%	80%	6	28+	248.889	—		

50 @ 22°C
58.5
114
89.64
152

93 BBLS
483.2
158.9
324.2

CUMM. PROD. SINCE (Hrs.)		LIQUID PRODUCTION: TANK #	TANK #
GAS PRODUCTION (Hrs.)	10E3m³	BALANCE: OIL H₂O	OIL
GAS PRODUCTION COMM.	10E3m³	OPENING GAUGE:	
LIQUID PRODUCTION (Hrs.)		PRODUCTION	
OIL m³ Water m³		TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m³ Water m³		CLOSING GAUGE:	

50.2 @ 23°C

7.7

(7)

SOLID RESOURCES LTD.

FIELD DATA

CUSTOMER:
WELL NAME:
FLOWING: TUBING CASING GAS TO: FLARE PIPELINE VENT
TEST INTERVAL M GAS GRAVITY H.S. L.S.

PAGE
DATE APRIL 20. 95
JOB #
ZONE

Assumed .6 Gas grav.

Gas Gravity Corrected ↓

TIME	WELLHEAD DATA			SEPARATOR GAS DATA				FLUID DATA																		
	#1			HS MR. / HS M.	mm Orf. / X			Fl Meter # / SIZE / TK #	OIL / FACTOR / TK #			Fl. Meter # / Size / TK #	OIL / FACTOR / TK #			Fl. Meter # / SIZE	H_2O / FACTOR			Fl. Meter # / SIZE	FACTOR					
S.I. UNITS	TUBE PRESS Pga/kPa			LS MR. / LS M.	mm Orf. / X			CAP	m³ / m³/mm	OIL DATA		CAP	m³ / m³/mm			WATER DATA			SHIPPING			Salinity PPM	BS&W %H_2O		
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d	mm	m³	Hrly. Prod. m³	Comm. Prod. m³		mm	m³		Hrly. Water Prod. m³	Comm. Water Prod. m³		OIL SHP. m³	WATER SHP. m³	G.O.R.		TK. TEMP. DEG. C.		
								TANK #3			0/6	6/6	TOTAL			H_2O	OIL	PH	NACL	SAL PPM	BS+W		GAS G.R.		
0400	747			149	88	4	207	58.44	TANK #4		1.6	7.7*	121.18	BBLS		20%	80%	6	28+	248.889	—				
0430	769			149	88	4	207	58.44				6.10	87.98	BBLS		20%	80%	6	28+	248.889	—				
0500	776			150	80	4	1.98	55.89								20%	80%	6	28	248.889	—				
0530	770			150	80	4	1.98	55.89								20%	80%	6	28	248.889	TR-SED				
0600	775			150	72	4	1.88	53.03	TANK #3		6.10	13.1	139.44	BBLS		20%	80%	6	28+	248.889	TR-SED				
0630	803			150	71	4	1.88	53.03								20%	80%	6	28+	248.889	TR-SED				
0700	828			150	73	5	1.89	53.30								20%	80%	6	28+	248.889	TR-SED				
0730	830			150	79	5	1.97	55.44								20%	80%	6	28+	248.889	TR-SED				
0800	830			150	71	5	1.66	46.89	TANK #4		6.10	11.95*	98.77	BBLS		20%	80%	6	28+	248.889	TR-SED		.754		
0830	825	Increase 6P.		150	66	5	1.60	45.28								20%	80%	6	28+	248.889	TR-SED				
0900	810			205	44	7	1.52	42.94								5%	95%	6	28+	248.889	TR-SED		.738		
0930	810			205	44	7	1.52	42.94								15	85	6	28+	248.000	TR-SED				
0930	Change orifice plate 1.375 INCH.								API = 49.1 @ 15.6°C																	
1000	810	Steam'ing	Corrugated	205	96	8	1.59	44.72	TANK #3		13.1	12.9*	92.96	BBLS		20	80	6	28+	248000	TR.		.744		
1030	810			205	92	8	1.47	41.33								30	70	6	28+	248000	TR				
1100	810			204	82	7	1.47	41.31	API = 50 @ 15.6°C							32	68	6	28+	248000	TR		.743		
1130	810			203	102	7	1.63	45.96								30	70	6	28+	248,000	TR				
1200	805			202	83	7	1.47	41.40	TANK #4							32	68	7	28+	248000					

151.06

CUMM. PROD. SINCE (Hrs.)		LIQUID PRODUCTION: TANK #	TANK #
GAS PRODUCTION (Hrs.)	10E3m³	BALANCE: OIL H_2O	OIL
GAS PRODUCTION COMM.	10E3m³	OPENING GAUGE:	
LIQUID PRODUCTION (Hrs.)		PRODUCTION	
OIL m³	Water m³	TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m³	Water m³	CLOSING GAUGE:	

SOLID RESOURCES LTD.

FIELD DATA

CUSTOMER:
WELL NAME:

PAGE | JOB # | FLOWING: TUBING | CASING | GAS TO: FLARE | PIPELINE | VENT
DATE | ZONE | TEST INTERVAL | M | GAS GRAVITY H.S. | L.S.

TIME	WELLHEAD DATA			SEPARATOR GAS DATA				FLUID DATA																	
	# 8			HS MR. / HS M.	mm Orf. / X			Fl Meter # / SIZE / TK #	OIL / FACTOR / TK #			Fl. Meter # / Size / TK #	OIL / FACTOR / TK #			Fl. Meter # / SIZE	H_2O / FACTOR		Fl. Meter # / SIZE	FACTOR					
S.I. UNITS	TUBE PRESS Pga/kPa			LS MR. / LS M.	mm Orf. / X			CAP	m³ m³/mm		OIL DATA		CAP	m³ m³/mm		WATER DATA			SHIPPING			Salinity PPM	BS&W %H_2O	
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d		mm	m³	Hdy. Prod. m³	Comm. Prod. m³		mm	m³	Hdy. Water Prod. m³	Cumm. Water Prod. m³	pH	OIL SHP. m³	WATER SHP. m³	G.O.R.		TK. TEMP. DEG. C.	
							mcf		10E3m3/d		12'0"	16'6"	90	BBLS		0.1	WATER		NACL	SALE/m	BS		GAS GRAV	
1230	803			201	99	7	1.60		45.10	Take Samples.						75	8.5	7	28+	248,889	TR.		.742	
1300	798			201	80	6	1.44		40.62	—						76	24	7	28+	248,889	TR-			
1330	802			203	86	6	1.50		42.31							75	25	7	2[illegible]	248,889	TR			
1400	803			203	83	6	1.48		41.56	TANK #5	10'0"	14'10	[illegible]			75	25	7	28+	248,889	0			
1430	803			202	82	6	1.46		41.22							75	25	7	28+	248,889	0			
1500	800			203	84	6	1.48		41.81							75	25	7	28+	248,889	0		.	
1530	800			203	84	6	1.48		41.81	.						75	25	7	28+	248,889	0		.738	
1600	800	Fluid weight 102		204	83	6	1.48		41.66	TANK #6	15'8"	19'0	118 BBLS		API= 49.8@15.6	75	25	7	28+	248,889	0			
1630	810			204	84	6	1.49		41.91							75	25	7	28+	248,889	0			
1700	810			204	84	6	1.49		41.91							76	24	7	28+	248,000	0			
1700	Start	50 BBL Test																							
1730	810			204	96	6	1.59		44.80							78	22	7	28+	248,000	0			
1800	810			204	95	6	1.58		44.57	TANK #3	5'2"	9.7	88 BBLS			78	22	7	28+	248,000	0			
1830	810			204	95	6	1.58		44.57							78	22	7	28+	248,000	0			
1900	810			204	94	6	1.57		44.33							78	22	7	28+	248,000	0		.739	
1930	810			204	92	6	1.56		43.86							78	22	7	28+	248,000	0			
[illegible]	810	Shutwell in		204	90	6	1.54		43.38							78	22	7	28+	248,000	0			
2001	850																								
[illegible]																									

CUMM. PROD. SINCE (Hrs.)		LIQUID PRODUCTION: TANK #	TANK #
GAS PRODUCTION (Hrs.)	10E3m³	BALANCE: OIL H_2O	OIL
GAS PRODUCTION COMM.	10E3m³	OPENING GAUGE:	
LIQUID PRODUCTION (Hrs.)		PRODUCTION	
OIL m³ Water m³		TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m³ Water m³		CLOSING GAUGE:	

SOLID RESOURCES LTD.

FIELD DATA

PAGE #8
DATE

JOB #
ZONE

CUSTOMER:
WELL NAME:
FLOWING: TUBING CASING
TEST INTERVAL M

GAS TO: FLARE PIPELINE VENT
GAS GRAVITY H.S. L.S.

TIME	WELLHEAD DATA			SEPARATOR GAS DATA				FLUID DATA														
				HS MR. / HS M.	mm Orf. / X			Fl Meter # / SIZE / TK #	OIL / FACTOR / TK #		Fl. Meter # / Size / TK #	OIL / FACTOR / TK #		Fl. Meter # / SIZE	H_2O / FACTOR		Fl. Meter # / SIZE	FACTOR				
S.I. UNITS	TUBE PRESS Pga/kPa			LS MR. / LS M.	mm Orf. / X			CAP	m³ / m³/mm		OIL DATA		CAP	m³ / m³/mm		WATER DATA			SHIPPING		Salinity PPM	BS&W %H_2O
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d		mm	BBLS	Hrly. Prod. m³	Comm. Prod. m³		mm	m³	Hrly. Water Prod. m³	Cumm. Water Prod. m³		OIL SHP. m³	WATER SHP. m³	G.O.R.	TK. TEMP. DEG. C.
1700	810	Start 50	BBL Test	204	84	6	1.49		300	8.49	BBLS	BBLS										
1730	810			204	96	6	1.59		830	23.49	15.0	15.0										
1803	810			204	95	6	1.58		2085	58.46	34.97	49.97										
1815	810	Start 50	bbl test					O/G	280	7.93												
1830	810			204	95	6	1.58		740	20.95	13.02	13.02										
1900	810			204	94	6	1.57		1650	46.71	25.76	38.78										
1917	810								2050	58.03	11.32	50.10										
1930	810	Start	50bbl test	204	92	6	1.56	O/G	290	8.21												
2000	810			204	90	6	1.54		930	26.33	18.12	18.12										
2001	850	Shut	well in																			

CUMM. PROD. SINCE (Hrs.)		LIQUID PRODUCTION: TANK #	TANK #
GAS PRODUCTION (Hrs.)	10E3m³	BALANCE: OIL H_2O	OIL
GAS PRODUCTION COMM.	10E3m³	OPENING GAUGE:	
LIQUID PRODUCTION (Hrs.)		PRODUCTION	
OIL m³ Water	m³	TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m³ Water	m³	CLOSING GAUGE:	

(9)

SOLID RESOURCES LTD.

FIELD DATA

CUSTOMER:
WELL NAME:

PAGE | JOB # | FLOWING: TUBING | CASING | GAS TO: FLARE | PIPELINE | VENT
DATE | ZONE | TEST INTERVAL | M | GAS GRAVITY H.S. | L.S.

TIME	WELLHEAD DATA			SEPARATOR GAS DATA				FLUID DATA																	
	#9			HS MR. / HS M.		mm Orf. / X		Fl Meter # / SIZE / TK #		OIL / FACTOR / TK #		Fl. Meter # / Size / TK #		OIL / FACTOR / TK #		Fl. Meter # / SIZE		H_2O / FACTOR		Fl. Meter # / SIZE		FACTOR			
S.I. UNITS	TUBE PRESS Pga/kPa			LS MR. / LS M.		mm Orf. / X		CAP		m^3 / m^3/mm	OIL DATA			CAP		m^3 / m^3/mm	WATER DATA			SHIPPING			Salinity PPM	BS&W $\%H_2O$	
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d		mm	m^3	Hrly. Prod. m^3	Comm. Prod. m^3		mm	m^3	Hrly. Water Prod. m^3	Comm. Water Prod. m^3		OIL SHP. m^3	WATER SHP. m^3	G.O.R.		TK. TEMP. DEG. C.	
2010	960	Build up		0500	1375																				
2015	1050			0530	1378																				
2030	1120			0600	1380																				
2045	1164			0630	1374																				
2100	1188			07:0	1371																				
2130	1238			07:30	1375																				
2200	1270			08.00	1382																				
2230	1280			08:30																					
2300	1292																								
2330	1309																								
0000	1325																								
0030	1330																								
0100	1330																								
0130	1335																								
0200	1347																								
0230	1357																								
0300	1365																								
0330	1369																								
0400	1369																								
0430	1369																								

CUMM. PROD. SINCE (Hrs.)		LIQUID PRODUCTION:	TANK # / TANK #
GAS PRODUCTION (Hrs.)	10E3m³	BALANCE: OIL H_2O	OIL
GAS PRODUCTION COMM.	10E3m³	OPENING GAUGE:	
LIQUID PRODUCTION (Hrs.)		PRODUCTION	
OIL m^3 Water m^3		TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m^3 Water m^3		CLOSING GAUGE:	

SOLID RESOURCES LTD.

FIELD DATA

CUSTOMER:
WELL NAME:
FLOWING: TUBING CASING GAS TO: FLARE PIPELINE VENT
TEST INTERVAL M GAS GRAVITY H.S. L.S.

PAGE JOB #
DATE ZONE

TIME	WELLHEAD DATA			SEPARATOR GAS DATA				FLUID DATA																	
	#9			HS MR. / HS M.	mm Orf. X			Fl Meter # / SIZE / TK #	OIL FACTOR / TK #			Fl. Meter # / Size / TK #	OIL FACTOR / TK #			Fl. Meter # / SIZE	H₂O FACTOR			Fl. Meter # / SIZE	FACTOR				
S.I. UNITS	TUBE PRESS Pga/kPa			LS MR. / LS M.	mm Orf. X			CAP	m³ m³/mm	OIL DATA		CAP	m³ m³/mm			WATER DATA			SHIPPING		Salinity PPM	BS&W %H₂O			
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d		mm	m³	Hrly. Prod. m³	Comm. Prod. m³		mm	m³	Hrly. Water Prod. m³	Cumm. Water Prod. m³		OIL SHP. m³	WATER SHP. m³	G.O.R.	TK. TEMP. DEG. C.			
2010	960	Build up		0500	1375				1500	1597															
2015	1050			0530	1378				1530	1615															
2030	1120			0600	1380				1600	1630															
2045	1164			0630	1374				1630	1648															
2100	1188			0700	1371				1700	1665															
2130	1238			0730	1375				1730	1675															
2200	1270			0800	1382	Big deadweight			1800	1693															
2230	1280			0830	1396	on wellhead.			1830	1703															
2300	1292			0900	1410				1900	1725															
2330	1309			0930	1426				1930	1736															
0000	1325			1000	1442				2000	1741															
0030	1330			1030	1454																				
0100	1330			1100	1470																				
0130	1335			1130	1482																				
0200	1347			1200	1502																				
0230	1357			1230	1520																				
0300	1365			1300	1538																				
0330	1369			1330	1552																				
0400	1369			1400	1565																				
0430	1369			1430	1585																				

CUMM. PROD. SINCE (Hrs.)		LIQUID PRODUCTION:	TANK # / OIL
GAS PRODUCTION (Hrs.)	10E3m³	BALANCE: OIL H₂O	
GAS PRODUCTION COMM.	10E3m³	OPENING GAUGE:	
LIQUID PRODUCTION (Hrs.)		PRODUCTION	
OIL m³ Water m³		TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m³ Water m³		CLOSING GAUGE:	

SOLID RESOURCES LTD.

FIELD DATA

PAGE
DATE 95-04-20
JOB #
ZONE

CUSTOMER:
WELL NAME:
FLOWING: TUBING CASING
TEST INTERVAL M

GAS TO: FLARE PIPELINE VENT
GAS GRAVITY H.S. L.S.

TIME	WELLHEAD DATA	SEPARATOR GAS DATA	FLUID DATA
	#9	HS MR. mm Orf. / HS M. X	Fl Meter # OIL / SIZE FACTOR / TK # TK #
		LS MR. mm Orf. / LS M. X	Fl. Meter # OIL / Size FACTOR / TK # TK #
			Fl. Meter # H_2O / SIZE FACTOR
			Fl. Meter # / SIZE FACTOR

S.I. UNITS	TUBE PRESS Pga/kPa							CAP	m³ m³/mm	OIL DATA		CAP	m³ m³/mm		WATER DATA			SHIPPING		Salinity PPM	BS&W %H_2O
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d	mm	m³	Hrly. Prod. m³	Comm. Prod. m³	mm	m³	Hrly. Water Prod. m³	Cumm. Water Prod. m³	OIL SHP. m³	WATER SHP. m³	G.O.R.	TK. TEMP. DEG. C.
2010	960	Buildups		0500	1375			1500	1597					0700	2005	1700 HS	2060 PSI	2300	2071
2015	1050			0530	1378			1530	1615					0730	2010	1730	2060	2330	2072
2030	1120			0600	1380			1600	1630					0800	2010	1800	2061		
2045	1164			0630	1374			1630	1648					0830	2010	1830	2061		
2100	1188			0700	1371			1700	1665					0900	2020	1900	2063		
2130	1238			0730	1375			1730	1675					0930	2020	1930	2064		
2200	1270			0800	1382	Big deadweight		1800	1693					1000	2020	2000	2065		
2230	1280			0830	1396	on wellhead.		1830	1703					1030	2020	2030	2066		
2300	1292			0900	1410			1900	1725					1100	2020	2100	2067		
2330	1309			0930	1426			1930	1736					1130	2020	2130	2068		
0000	1325	95-04-21		1000	1442			2000	1741	95-04-22				1200	2023	2200	2069		
0030	1330			1030	1454	CHANGED TO 3000# GAUGE ON WELLHEAD								1230	2023	2230	2070		
0100	1330			1100	1470			~~0300~~	~~1955~~					1300	2055	Dead Weight in service			
0130	1335			1130	1482			0330	1965					1330	2055				
0200	1347			1200	1502			0400	1950					1400	2055				
0230	1357			1230	1520			0430	1955					1430	2056				
0300	1365			1300	1538			0500	1960					1500	2057				
0330	1369			1330	1552			0541	RECORDERS ON BOTTOM					1530	2058				
0400	1369			1400	1565			0600	1980					1600	2059				
0430	1369			1430	1585			0630	2000					1630	2059				

CUMM. PROD. SINCE (Hrs.)		LIQUID PRODUCTION: TANK #	TANK #
GAS PRODUCTION (Hrs.)	10E3m³	BALANCE: OIL H_2O	OIL
GAS PRODUCTION COMM.	10E3m³	OPENING GAUGE:	
LIQUID PRODUCTION (Hrs.)		PRODUCTION	
OIL m³ Water m³		TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m³ Water m³		CLOSING GAUGE:	

SOLID RESOURCES LTD.

FIELD DATA

CUSTOMER:
WELL NAME:
FLOWING: TUBING CASING GAS TO: FLARE PIPELINE VENT
TEST INTERVAL M GAS GRAVITY H.S. L.S.

PAGE JOB #
DATE APRIL 23.95 ZONE #4

TIME	WELLHEAD DATA			SEPARATOR GAS DATA				FLUID DATA															
				HS MR. mm Orl. HS M. X				Fl Meter # OIL SIZE FACTOR TK # TK #				Fl. Meter # OIL Size FACTOR TK # TK #				Fl. Meter # H_2O SIZE FACTOR				Fl. Meter # SIZE FACTOR			
S.I. UNITS	TUBE PRESS Pga/kPa			LS MR. mm Orl. LS M. X				CAP m^3 m^3/mm			OIL DATA		CAP m^3 m^3/mm			WATER DATA			SHIPPING		Salinity PPM	BS&W %H_2O
ELAPSED TIME HRS.	CHOKE SIZE mm	FLOW TEMP. DEG.C.	CASE PRESS. kPaG	STATIC kPa	DIFF. kPa	MR TEMP. DEG.C.	FLOW 10 3m3/d		mm	m^3	Hrly. Prod. m^3	Comm. Prod. m^3		mm	m^3	Hrly. Water Prod. m^3	Cumm. Water Prod. m^3		OIL SHP. m^3	WATER SHP. m^3	G.O.R.	TK. TEMP. DEG. C.
0000	2073																					
0030	2074																					
0100	2075																					
0130	2076																					
0200	2077																					
0230	2078																					
0300	2078																					
0330	2078																					
0400	2079																					
0430	2080																					
0500	2080																					
0530	2081																					
05:41	208	FINAL SHUT IN ON TEST #4																				

CUMM. PROD. SINCE (Hrs.)		LIQUID PRODUCTION: TANK #	TANK #
GAS PRODUCTION (Hrs.)	10E3m³	BALANCE: OIL H_2O	OIL
GAS PRODUCTION COMM.	10E3m³	OPENING GAUGE:	
LIQUID PRODUCTION (Hrs.)		PRODUCTION	
OIL m^3 Water	m^3	TOTALS:	
LIQUID PRODUCTION CUMM.		MINUS SHIPPING:	
OIL m^3 Water	m^3	CLOSING GAUGE:	

Z.I.PROBES FIELD REPORT

Please fill this page out completely. Indicate N/A when information is not available to you.
Return this form with our probes. Thanks! See backside for important info.

Oil Co. HUNT OIL	Job No. 5
Z.I.Probes should send reports to: Name Dave Clark Phone 1-403-463-1567 Address Edm, AB (md)	
Service Company SOLID RESOURCES	
Representative Will Stordy	Phone 709-644-2350
Well Name Port-au-Port #1	
Well Location (LSD) NFLD	
Field	Pool
% H2S Sour	Type of inhibitor used:
Status: ☐ Oil ☐ Gas ☐ Other:	
Type of Test: ☒ Flow and Buildup ☒ Static Gradient ☐ Interference Other:	

Static Gradient Depth Table ☒ mKB ☐ mCF

Step	Depth	Start Time of Step	End Time of Step
1	3363	06:11:44	06:21:44
2	3333	06:22:13	06:32:13
3	3273	06:32:52	06:42:52
4	3183	06:44:28	06:54:28
5	3063	06:55:50	07:05:50
6	2763	07:13:54	07:18:54
7	2463	07:21:25	07:31:25
8	2163	07:33:52	07:43:52
9	1863	07:46:20	07:56:20
10	1563	07:58:47	08:08:47
11	1263	08:10:53	08:20:53
12	963	08:22:52	08:32:52
13	663	08:35:43	08:45:43
14	363	08:47:24	08:57:24
15	surface	0900:48	0910:48 Test 5

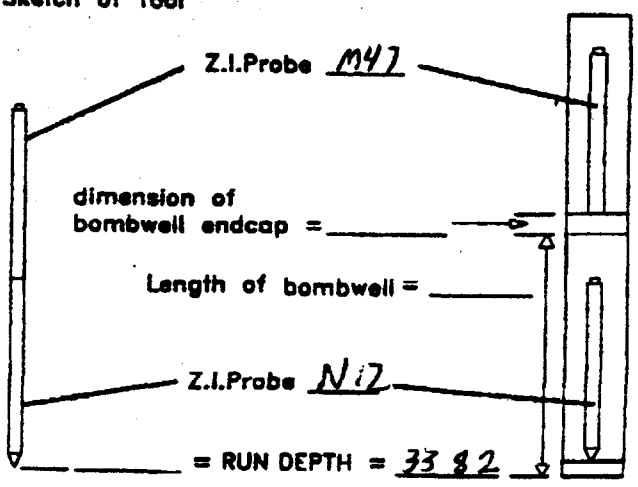
Producing Interval (Perfs of interest)	☐ mKB ☐ mCF
Midpoint of Perfs (MPP of interest)	☐ mKB ☐ mCF
Casing Flange CF m	KB–CF m
Kelly Bushing KB m	Ground Level GL m
Plugged Back Total Depth (PBTD)	☐ mKB ☐ mCF
Total Depth (TD)	☐ mKB ☐ mCF
Production Casing mm	Production Tubing mm

Shut in Dates/Durations

TUBING dead weight Dates/Times	Pressure	CASING dead weight Dates/Times	Pressure
		Apr 23,95 05:00 Am	14,348 kpa

Date/Time On Bottom	Date/Time Off Bottom
Apr 22,'95 05:40 Am	Apr 23,'95 06:11 Am

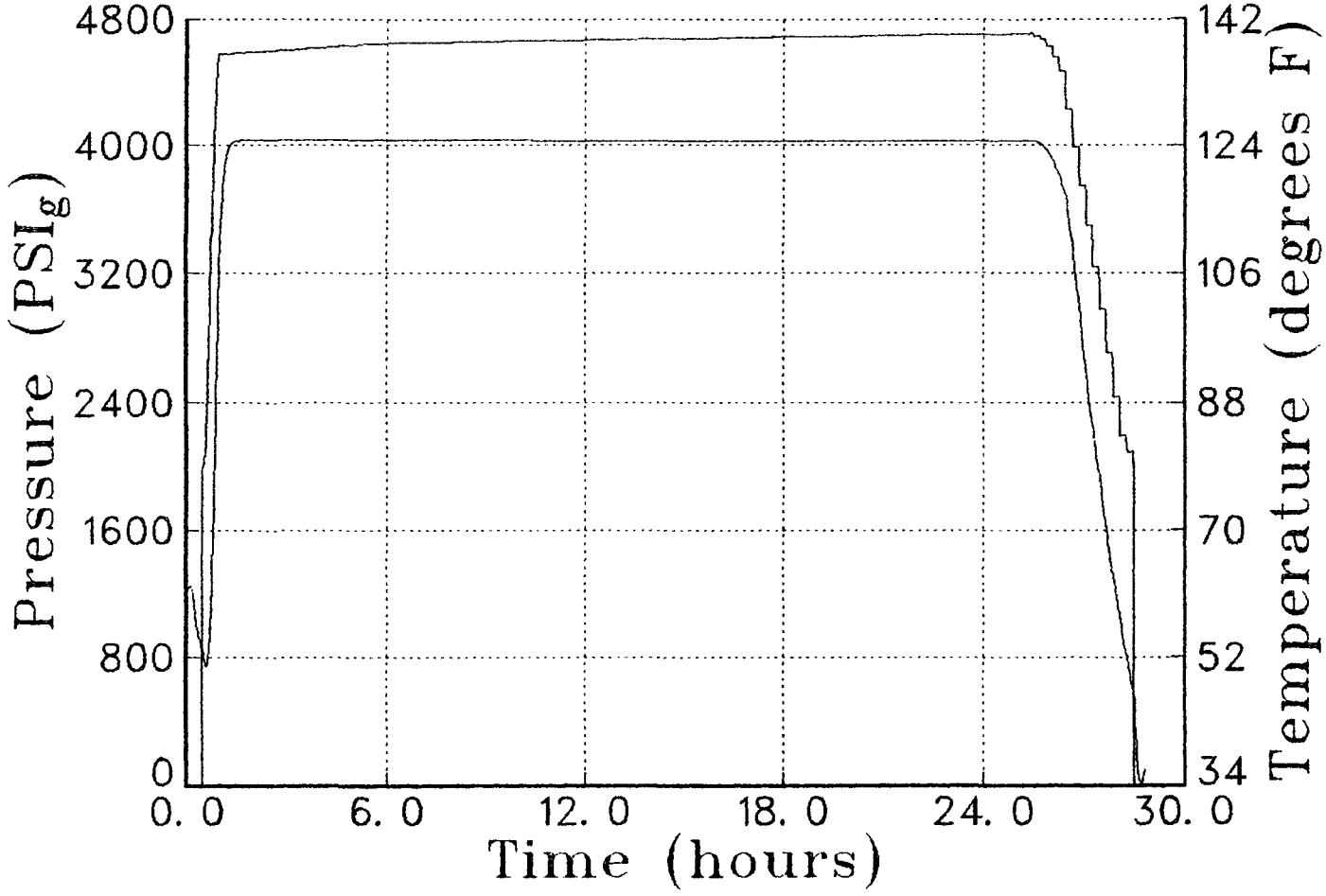
Sketch of Tool — If Bombwells Used:



DST 4
segment 2 of Build up.

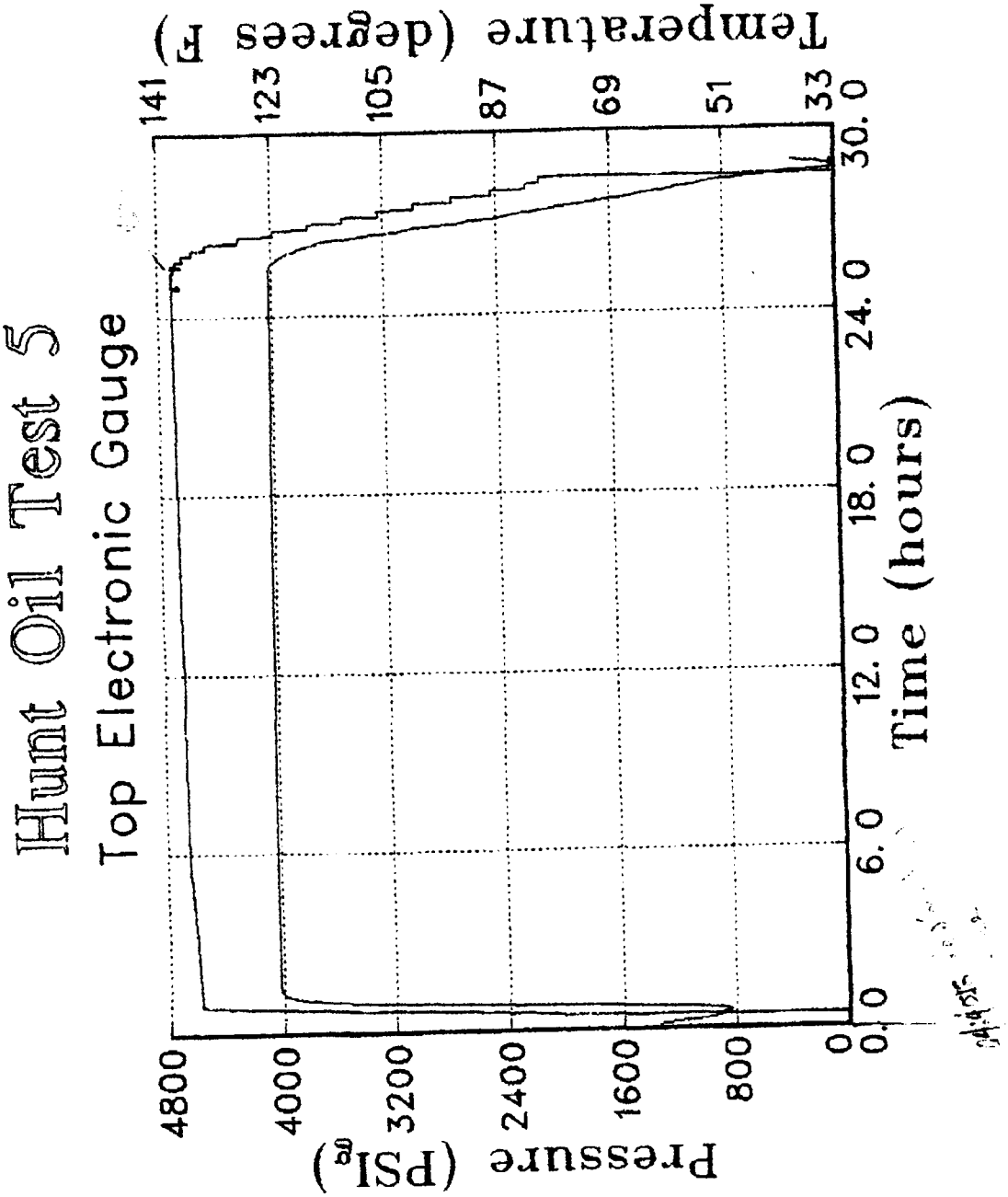
Hunt Oil Test 5

Bottom Electonic Gauge



ZIPGRAPH 3. 1b6 for Z. I. Probes, Edmonton Apr. 23, 1995 09:36:06

ZIPGRAPH 3. 1b6 for Z. I. Probes, Edmonton Apr. 23, 1995 09:41:31



Z.I.PROBES FIELD REPORT

Please fill this page out completely. Indicate N/A when information is not available to you. Return this form with our probes. Thanks! See backside for important info.

Oil Co. HUNT OIL	Job No. 5
Z.I.Probes should send reports to: Name Dave Clark Phone 1-403-463 1567 (md) Address Edm, AB	
Service Company SOLID RESOURCES	
Representative Will Stordy	Phone 709-644-2350
Well Name Port-au-Port #1	
Well Location (LSD) NFLD	
Field	Pool
% H2S Sour	Type of inhibitor used:
Status: ☐ Oil ☐ Gas ☐ Other:	
Type of Test: ☒ Flow and Buildup ☒ Static Gradient ☐ Interference Other:	

Static Gradient Depth Table ☒ mKB ☐ mCF

Step	Depth	Start Time of Step	End Time of Step
1	3363	06:11:44	06:21:44
2	3333	06:22:13	06:32:13
3	3273	06:32:52	06:42:52
4	3183	06:44:28	06:54:28
5	3063	06:55:50	07:05:50
6	2763	07:08:54	07:18:54
7	2463	07:21:25	07:31:25
8	2163	07:33:52	07:43:52
9	1863	07:46:20	07:56:20
10	1563	07:58:47	08:08:47
11	1263	08:10:53	08:20:53
12	963	0822:52	0832:52
13	663	0835:43	0845:43
14	363	0847:24	0857:24
15	surface	0900:48	0910:48

Test 5

Producing Interval (Perfs of interest)	☐ mKB ☐ mCF
Midpoint of Perfs (MPP of interest)	☐ mKB ☐ mCF
Casing Flange CF m	KB-CF m
Kelly Bushing KB m	Ground Level GL m
Plugged Back Total Depth (PBTD)	☐ mKB ☐ mCF
Total Depth (TD)	☐ mKB ☐ mCF
Production Casing mm	Production Tubing mm

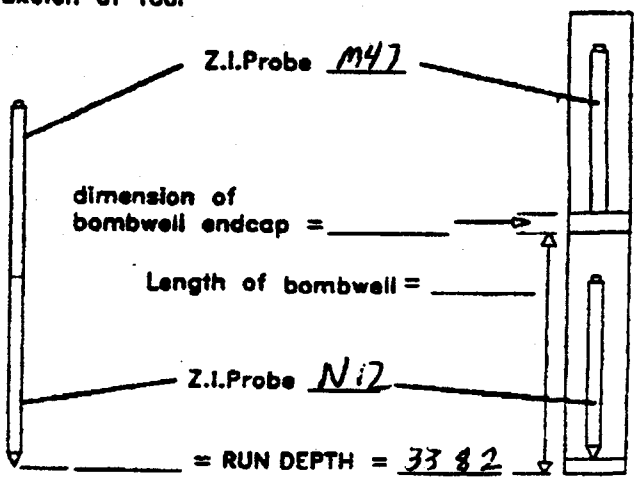
Shut in Dates/Durations

TUBING dead weight Dates/Times	Pressure	CASING dead weight Dates/Times	Pressure
		Apr 23,95 05:00 Am	14,348 Kpa

Date/Time On Bottom	Date/Time Off Bottom
Apr 22,'95 05:40 Am	Apr 23,'95 06:11 Am

Sketch of Tool

If Bombwells Used:



☒ mKB ☐ mCF

Data Listing: Every 10th point of the generic data file

Probe Number: N12 - Bottom
Company: Hunt Oil
Well: Port-au-Port #1
Location: NFLD
Test Date(s): Apr 22-23, 95

Time	Pressure (psig)	Temperature (degrees F)
Sat Apr 22, 1995		
04:42:04	1.870	61.6430
04:52:14	1.739	61.0486
05:02:14	1.841	55.2767
05:10:34	1984.421	53.0426
05:12:24	2007.791	52.5501
05:14:04	2048.696	51.7100
05:15:44	2091.765	50.9194
05:17:24	2186.219	50.6621
05:19:04	2321.177	50.9587
05:20:44	2508.702	51.8359
05:22:24	2728.383	53.6349
05:24:04	2970.427	55.9660
05:25:44	3213.650	59.2626
05:27:24	3465.498	63.4383
05:29:04	3702.997	68.2238
05:30:44	3895.264	73.5072
05:32:24	4050.042	79.3370
05:34:04	4221.854	85.4013
05:35:44	4372.145	91.5704
05:37:24	4502.828	97.5881
05:39:24	4577.490	104.2789
05:41:24	4581.185	110.1018
05:43:14	4581.114	114.1853
05:44:54	4581.030	116.8154
05:47:24	4581.337	119.5213
05:51:04	4581.973	121.8618
05:59:14	4584.060	123.9510
06:09:14	4585.713	124.5676
06:19:14	4588.280	124.7002
06:29:14	4590.629	124.7349
06:39:14	4592.956	124.7457
06:49:14	4595.201	124.7534
06:59:14	4597.471	124.7563
07:09:14	4599.802	124.7573
07:19:14	4602.006	124.7594
07:29:14	4604.251	124.7621
07:39:14	4606.529	124.7626
07:49:14	4608.773	124.7620
07:59:14	4610.989	124.7641
08:09:14	4613.198	124.7653
08:19:14	4615.445	124.7641
08:29:14	4617.683	124.7650
08:39:14	4619.886	124.7660
08:49:14	4622.084	124.7654
08:59:14	4624.314	124.7665
09:09:14	4626.592	124.7656
09:19:14	4628.722	124.7651
09:29:14	4630.970	124.7648
09:39:14	4633.305	124.7644
09:49:14	4635.452	124.7650
09:59:14	4640.816	124.7656
10:09:14	4644.132	124.7709
10:19:14	4645.717	124.7715
10:29:14	4646.729	124.7672
10:39:14	4647.559	124.7623
10:49:14	4648.289	124.7570
10:59:14	4649.045	124.7526
11:09:14	4649.815	124.7480
11:19:14	4650.446	124.7445
11:29:14	4651.106	124.7428
11:39:14	4651.769	124.7389
11:49:14	4652.380	124.7375
11:59:14	4652.961	124.7314
12:09:14	4653.558	124.7244
12:19:14	4654.167	124.7202
12:29:14	4654.677	124.7191
12:39:14	4655.323	124.7180
12:49:14	4655.892	124.7164
12:59:14	4656.483	124.7149
13:09:14	4657.004	124.7127
13:19:14	4657.594	124.7084
13:29:14	4658.147	124.7055
13:39:14	4658.622	124.7027
13:49:14	4659.224	124.7016
13:59:14	4659.773	124.6996
14:09:14	4660.303	124.6973
14:19:14	4660.787	124.6936

Probe Number:

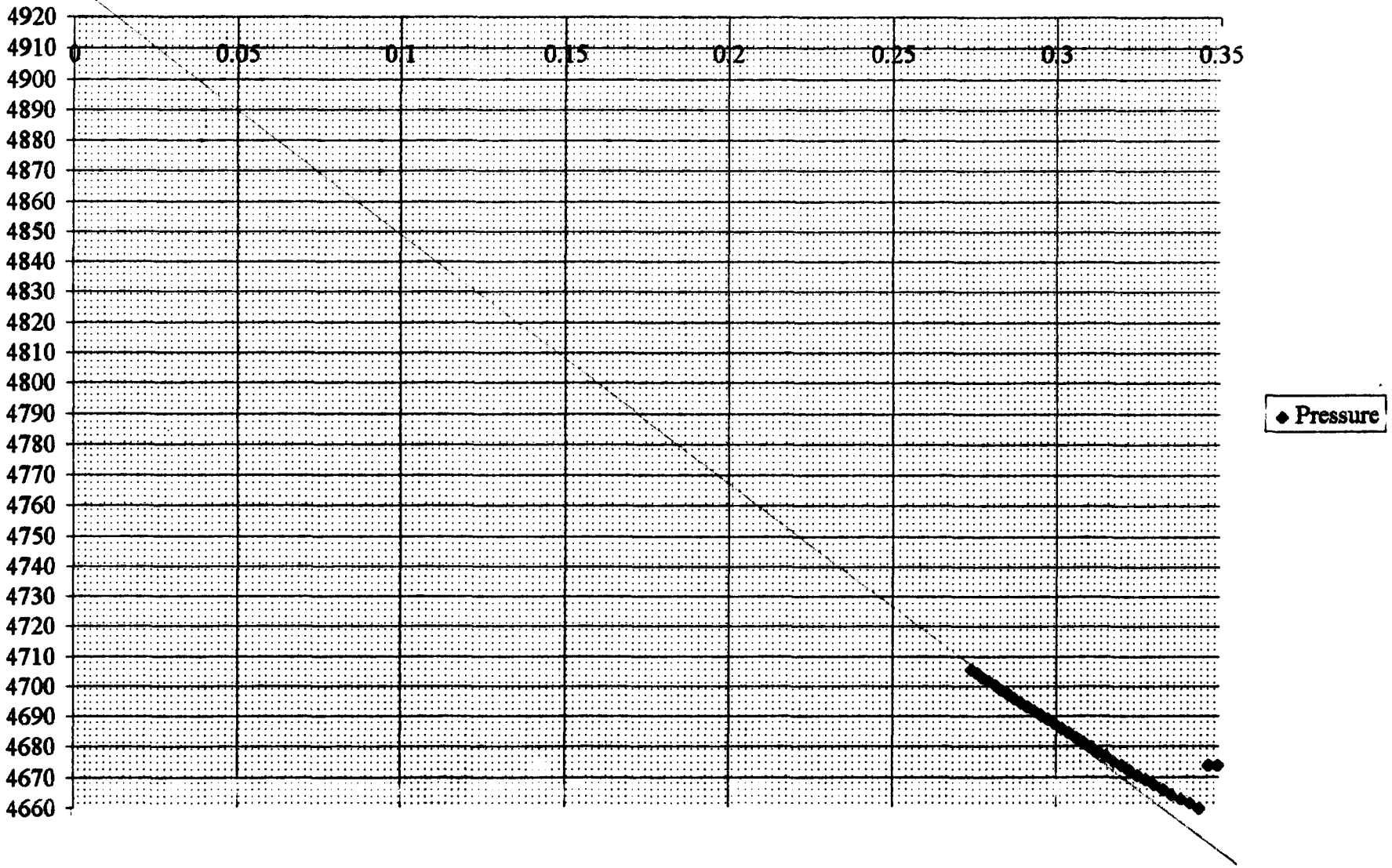
Time	Pressure (psig)	Temperature (degrees F)
Sat Apr 22, 1995		
14:29:14	4661.272	124.6908
14:39:14	4661.850	124.6890
14:49:14	4662.390	124.6897
14:59:14	4662.822	124.6864
15:09:14	4663.396	124.6842
15:19:14	4663.863	124.6824
15:29:14	4664.331	124.6805
15:39:14	4664.886	124.6797
15:49:14	4665.295	124.6773
15:59:14	4665.848	124.6764
16:09:14	4666.411	124.6747
16:19:14	4666.850	124.6719
16:29:14	4667.322	124.6708
16:39:14	4667.921	124.6701
16:49:14	4668.376	124.6674
16:59:14	4668.996	124.6670
17:09:14	4669.516	124.6642
17:19:14	4669.984	124.6654
17:29:14	4670.463	124.6615
17:39:14	4671.036	124.6615
17:49:14	4671.519	124.6595
17:59:14	4672.115	124.6597
18:09:14	4672.574	124.6578
18:19:14	4673.113	124.6576
18:29:14	4673.642	124.6554
18:39:14	4674.195	124.6560
18:49:14	4674.780	124.6541
18:59:14	4675.255	124.6524
19:09:14	4675.698	124.6524
19:19:14	4676.246	124.6477
19:29:14	4676.804	124.6484
19:39:14	4677.300	124.6487
19:49:14	4677.790	124.6464
19:59:14	4678.312	124.6441
20:09:14	4678.860	124.6442
20:19:14	4679.357	124.6429
20:29:14	4679.871	124.6405
20:39:14	4680.396	124.6398
20:49:14	4680.909	124.6397
20:59:14	4681.326	124.6381
21:09:14	4681.930	124.6349
21:19:14	4682.385	124.6358
21:29:14	4682.946	124.6345
21:39:14	4683.430	124.6341
21:49:14	4683.964	124.6337
21:59:14	4684.429	124.6314
22:09:14	4684.942	124.6301
22:19:14	4685.497	124.6309
22:29:14	4685.962	124.6291
22:39:14	4686.440	124.6276
22:49:14	4686.932	124.6259
22:59:14	4687.445	124.6268
23:09:14	4687.878	124.6237
23:19:14	4688.376	124.6236
23:29:14	4688.804	124.6235
23:39:14	4689.354	124.6226
23:49:14	4689.887	124.6226
23:59:14	4690.249	124.6199
Sun Apr 23, 1995		
00:09:14	4690.663	124.6181
00:19:14	4691.182	124.6200
00:29:14	4691.601	124.6185
00:39:14	4692.121	124.6172
00:49:14	4692.602	124.6170
00:59:14	4693.059	124.6149
01:09:14	4693.524	124.6148
01:19:14	4693.957	124.6130
01:29:14	4694.546	124.6128
01:39:14	4694.959	124.6125
01:49:14	4695.465	124.6115
01:59:14	4695.909	124.6090
02:09:14	4696.415	124.6093
02:19:14	4696.881	124.6073
02:29:14	4697.291	124.6084
02:39:14	4697.743	124.6090
02:49:14	4698.208	124.6072
02:59:14	4698.716	124.6058
03:09:14	4699.127	124.6067
03:19:14	4699.695	124.6062
03:29:14	4700.118	124.6042
03:39:14	4700.573	124.6033
03:49:14	4700.979	124.6035
03:59:14	4701.554	124.6022
04:09:14	4701.958	124.6027
04:19:14	4702.308	124.6001
04:29:14	4702.814	124.6003
04:39:14	4703.242	124.5987
04:49:14	4703.690	124.5985
04:59:14	4704.202	124.5980
05:09:14	4704.692	124.5978
05:19:14	4705.098	124.5965
05:29:14	4705.529	124.5974
05:39:14	4706.038	124.5964
05:49:14	4706.485	124.5959
05:59:14	4706.918	124.5961

Probe Number:

Time	Pressure (psig)	Temperature (degrees F)
Sun Apr 23, 1995		
06:08:14	4711.152	124.5985
06:14:14	4696.653	124.5616
06:23:24	4674.469	124.2872
06:34:14	4630.128	123.4634
06:44:14	4630.437	122.0313
06:51:04	4562.069	120.6142
06:58:14	4469.321	119.3710
07:06:14	4470.026	117.3380
07:08:44	4341.422	116.8964
07:10:54	4232.258	115.7021
07:14:14	4232.813	113.2650
07:19:14	4233.308	110.9840
07:21:34	4098.158	110.2393
07:24:04	3991.420	108.2871
07:27:24	3991.781	105.2289
07:31:24	3992.204	102.7966
07:33:54	3861.472	101.7100
07:36:14	3745.989	99.6798
07:39:34	3746.209	96.3465
07:43:44	3746.453	93.6235
07:46:24	3618.610	92.4396
07:48:44	3495.730	90.5966
07:52:14	3495.801	87.5906
07:57:44	3474.513	84.9125
07:59:24	3264.916	84.2246
08:02:44	3237.876	81.4848
08:08:24	3238.231	78.3108
08:11:14	3073.627	77.3436
08:14:04	2976.627	75.2651
08:18:54	2977.028	72.0493
08:23:04	2842.572	70.4264
08:25:54	2711.122	68.2564
08:31:04	2711.811	64.9812
08:36:04	2550.373	63.3936
08:39:24	2435.820	61.5617
08:45:54	2436.598	58.2341
08:48:24	2192.818	57.3141
08:55:34	2188.758	53.3088
09:00:24	2109.957	51.9590
09:05:34	2091.222	49.6858
09:12:34	2028.588	46.8933
09:17:14	1.969	39.4249
09:27:14	2.191	34.2097
09:31:14	15.344	2.2871

Horner Time#2

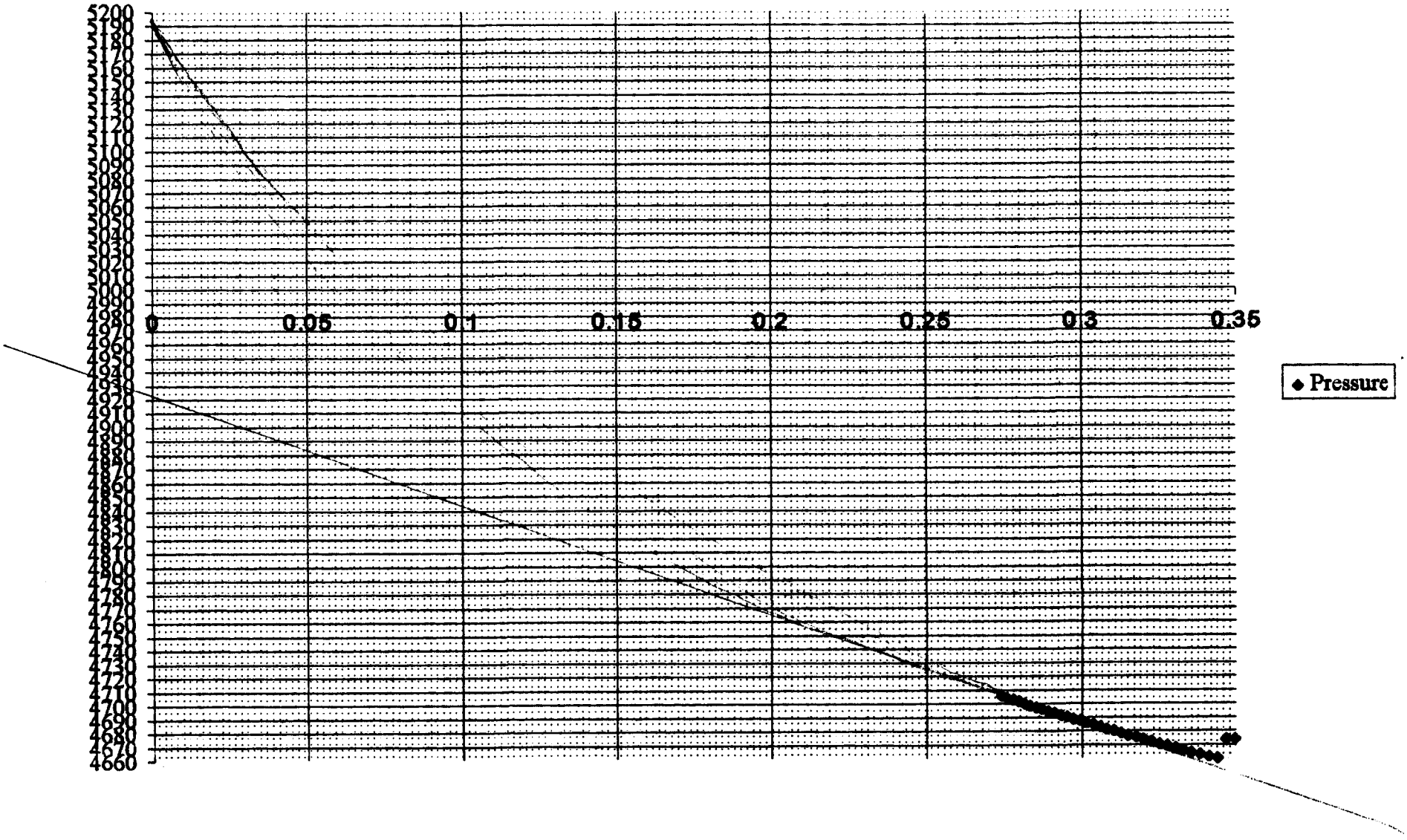
Segment 2 of DST #4 BuildUp



Horner Time#2

Pressure

Segment 2 of DST 4 Buildup



Gradient #2

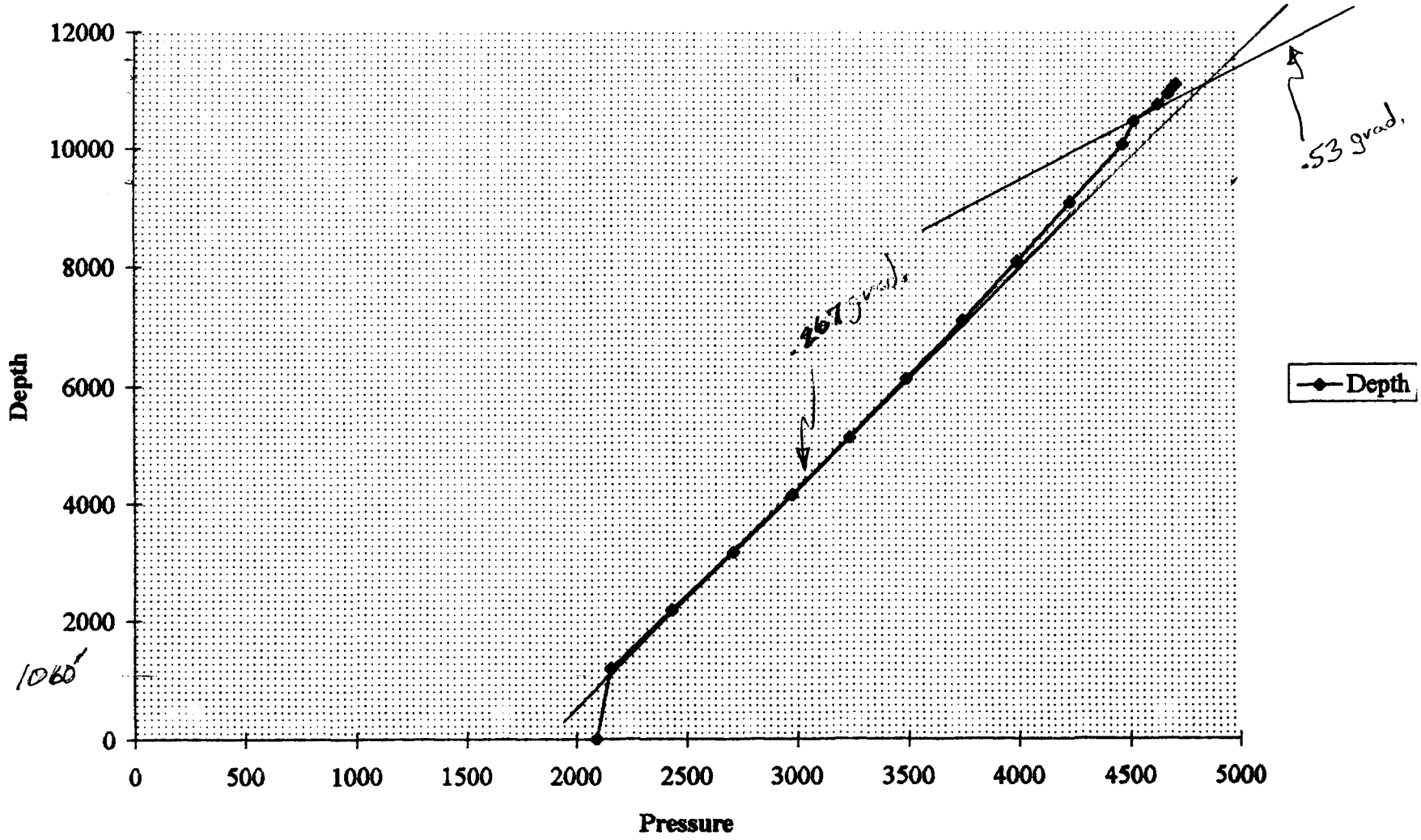
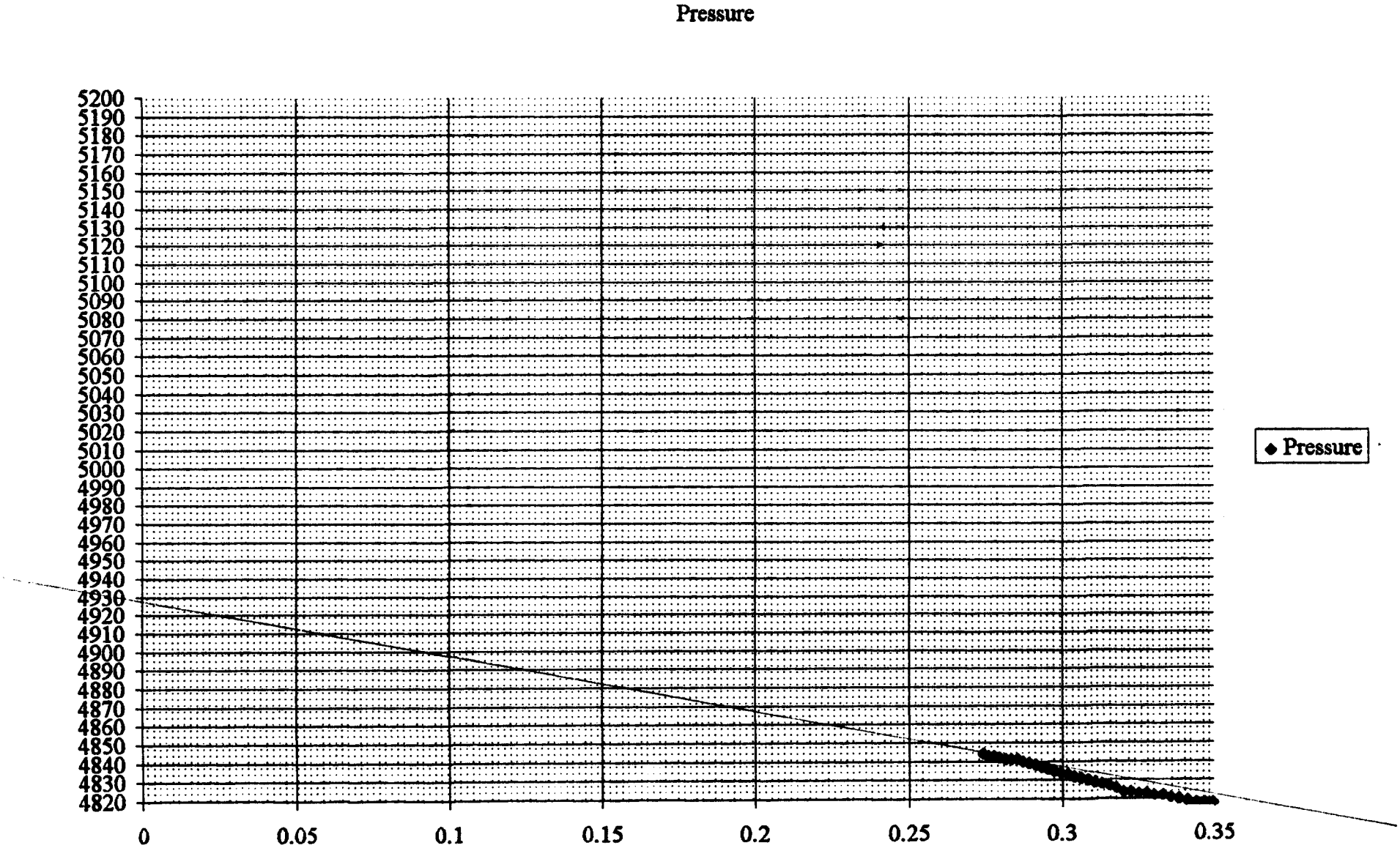

12000
10000
8000
6000
4000
2000
0
Depth
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
Pressure
Depth
.53 grad.

Chart6


Pressure
5200
5190
5180
5170
5160
5150
5140
5130
5120
5110
5100
5090
5080
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5060
5050
5040
5030
5020
5010
5000
4990
4980
4970
4960
4950
4940
4930
4920
4910
4900
4890
4880
4870
4860
4850
4840
4830
4820
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
Pressure

Chart6

Drill Pipe Pressure

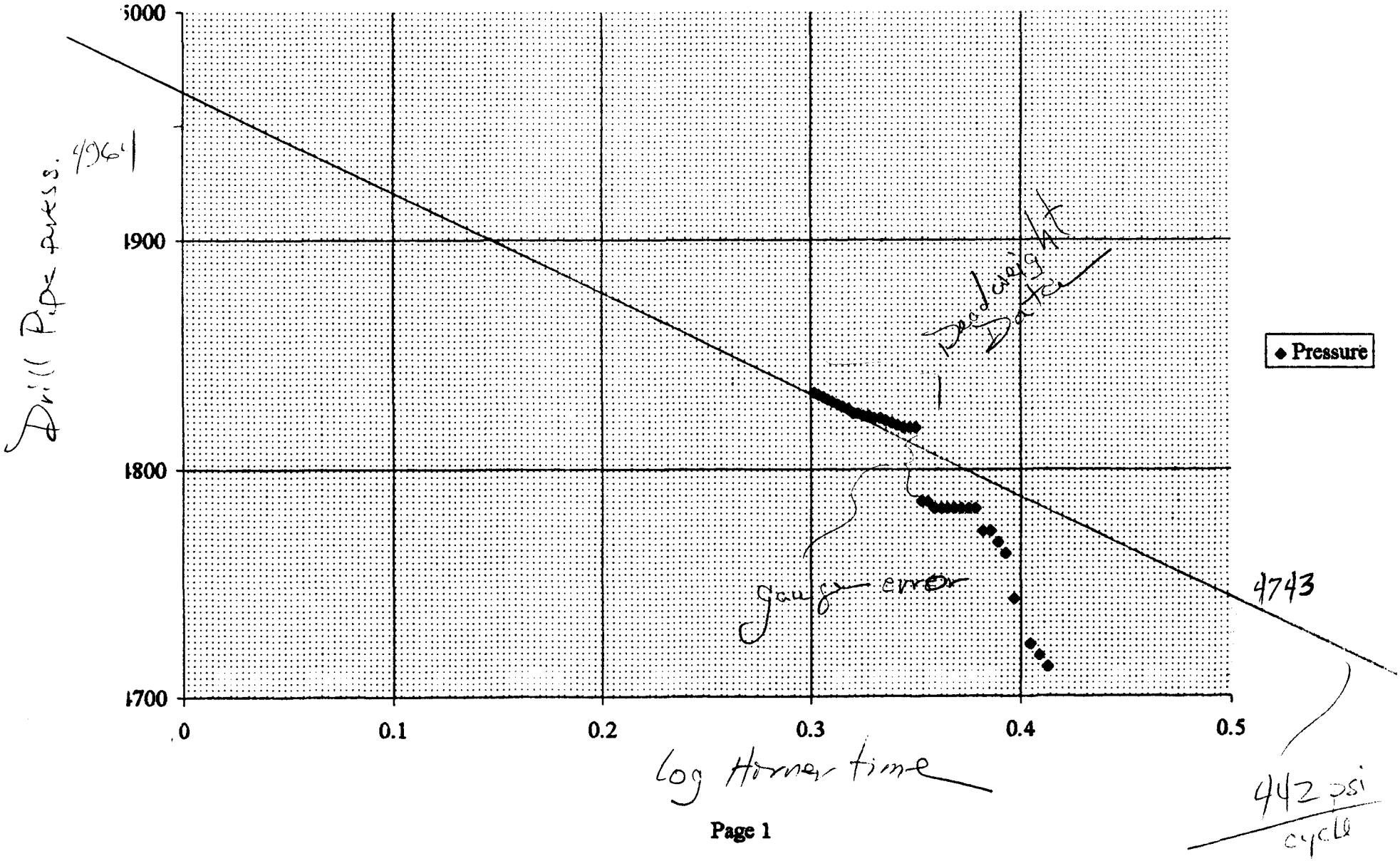
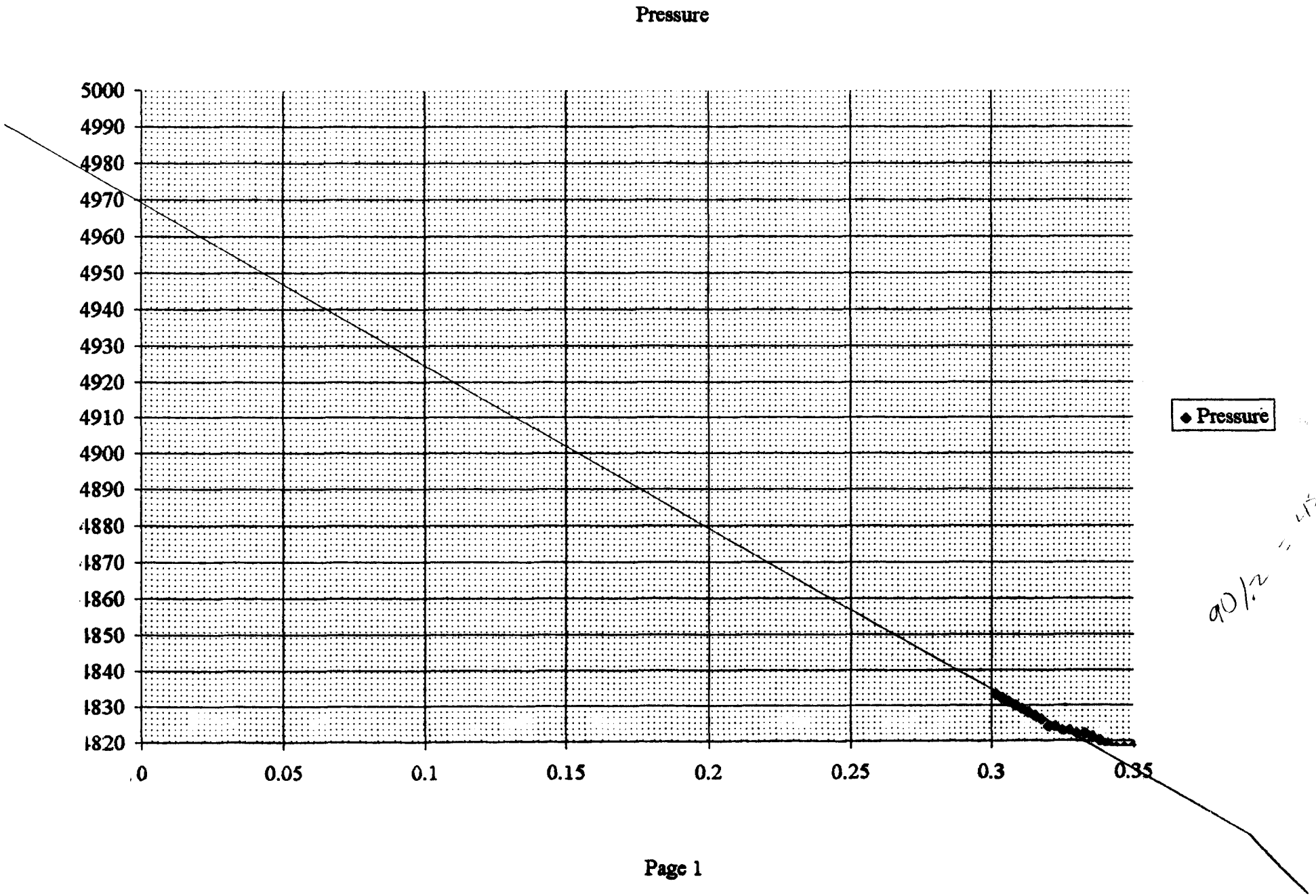
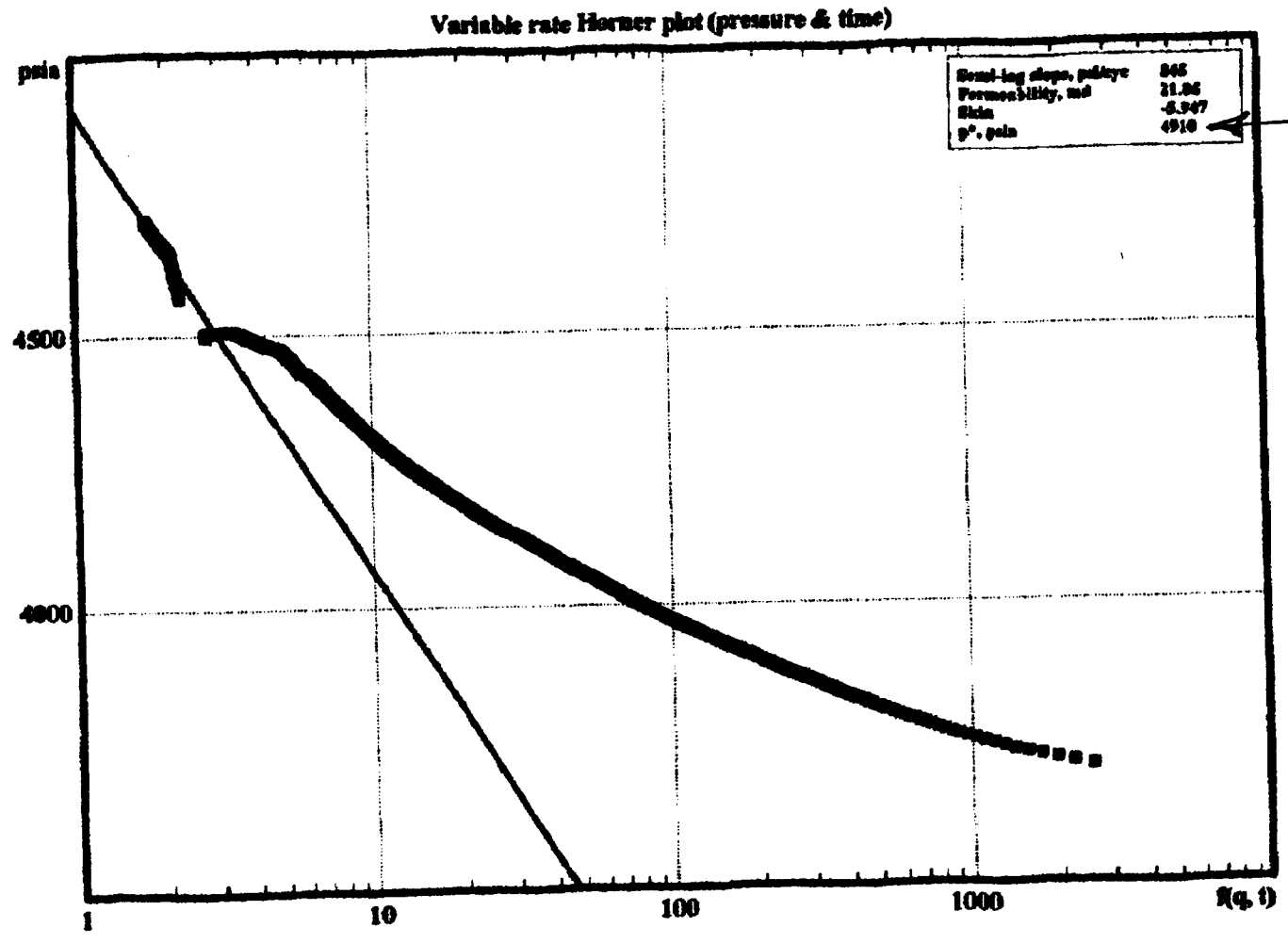


Chart6


Pressure
5000
4990
4980
4970
4960
4950
4940
4930
4920
4910
4900
4890
4880
4870
4860
4850
4840
4830
4820
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
◆ Pressure



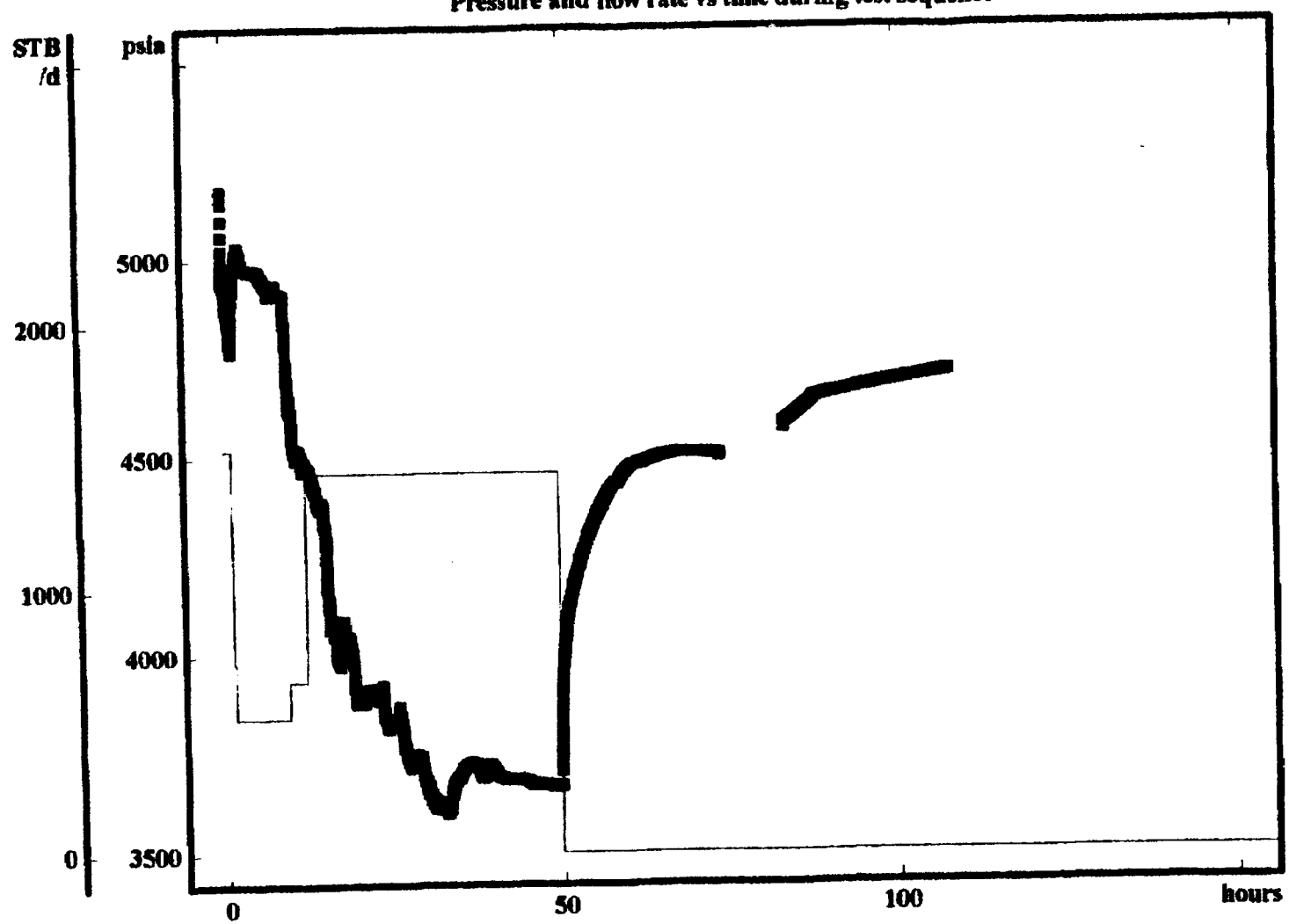
p* for DST 4

Figure 1

P. 1
APR-23-95 SUN 10:20 AM 03

David Lutiner

Pressure and flow rate vs time during test sequence



Automate v1.2 - HGI Demo Copy (exp May 15) - 04/23/95 08:05:47

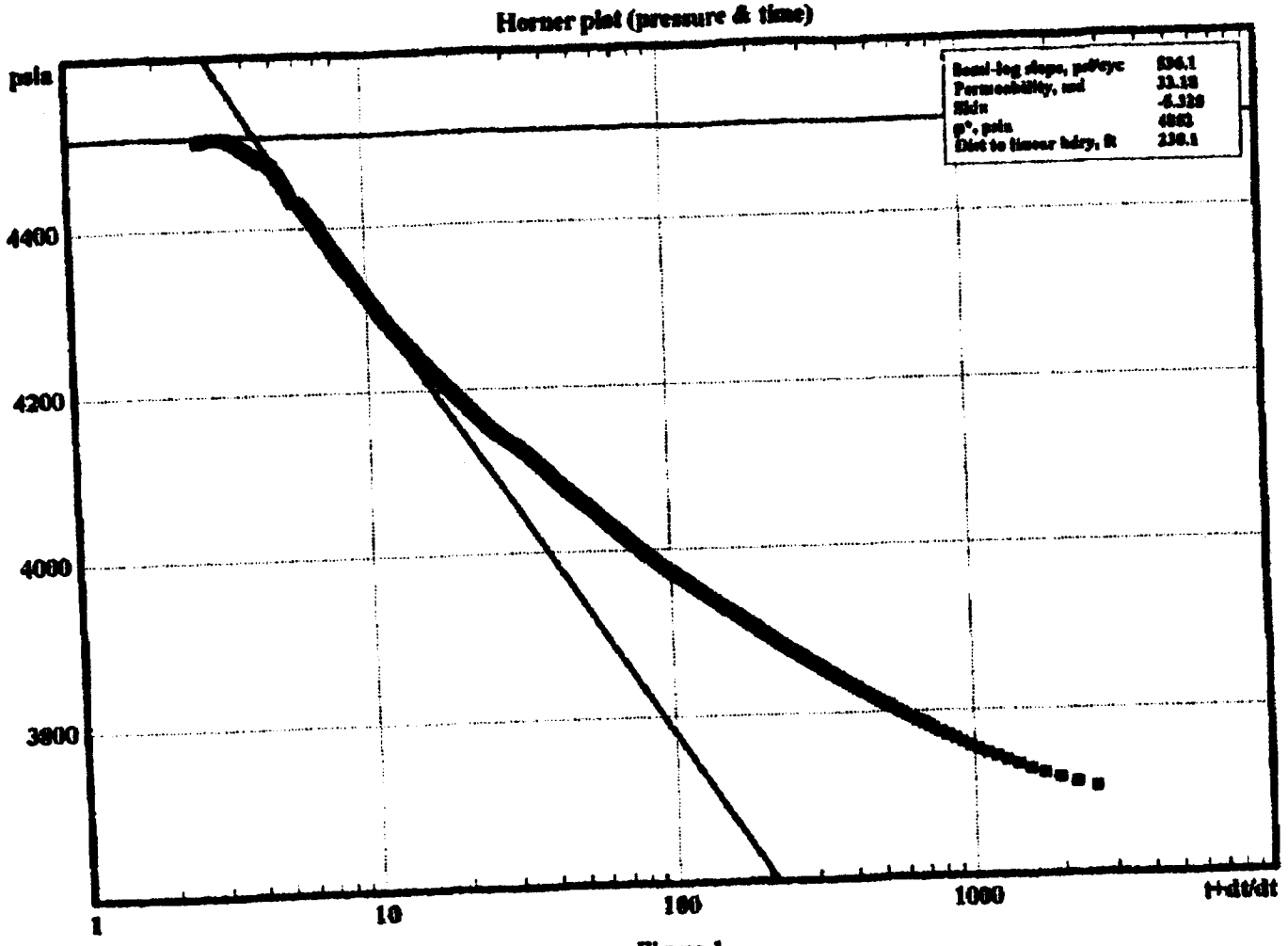

Horner plot (pressure & time)
psia
4400
4200
4000
3800
1
10
100
1000
t+dt/dt
Semi-log slope, psi/cyc 536.1
Permeability, md 33.18
Skin -6.328
p*, psia 4083
Dist to linear bdry, ft 230.1

Figure 1

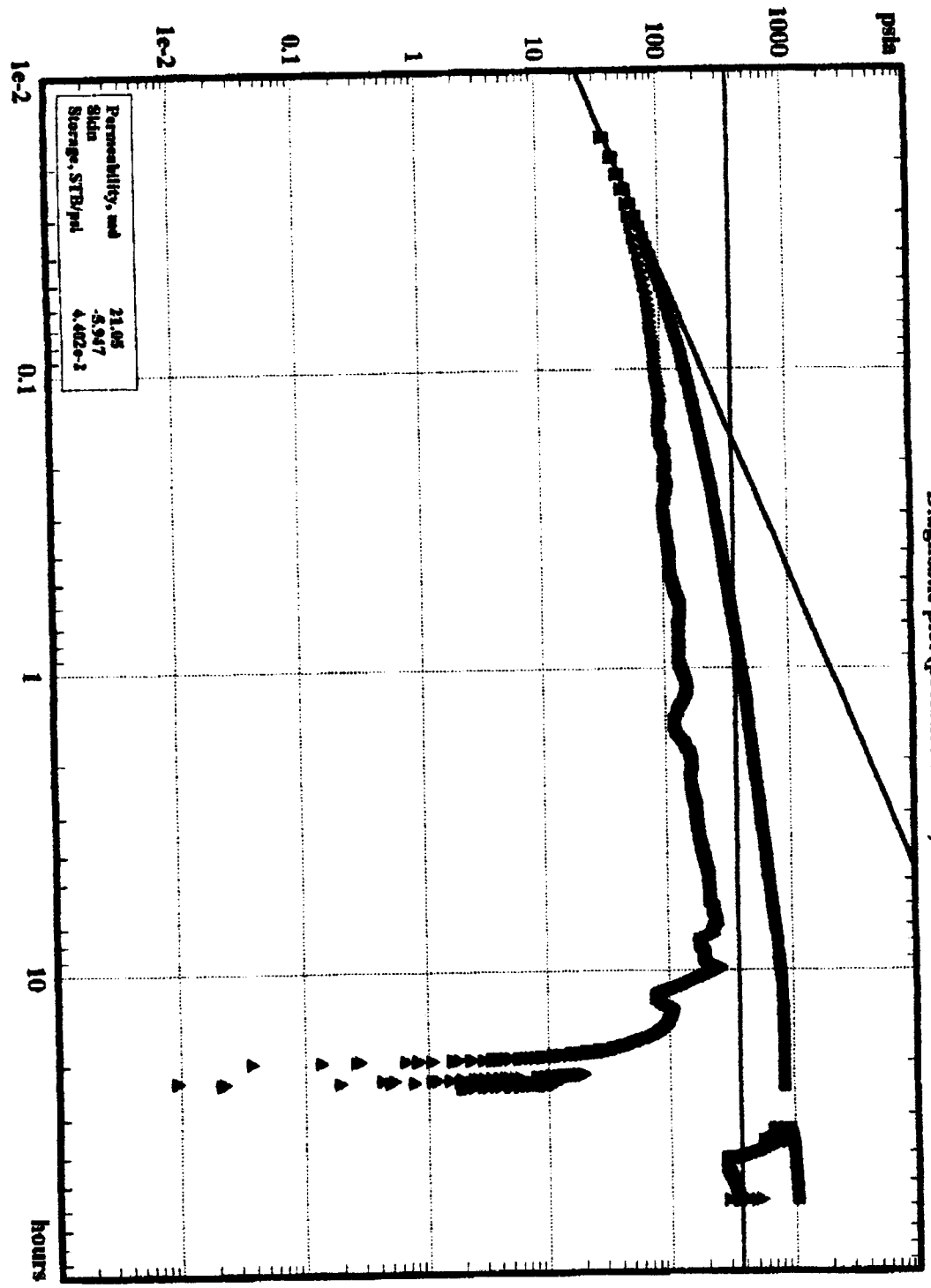


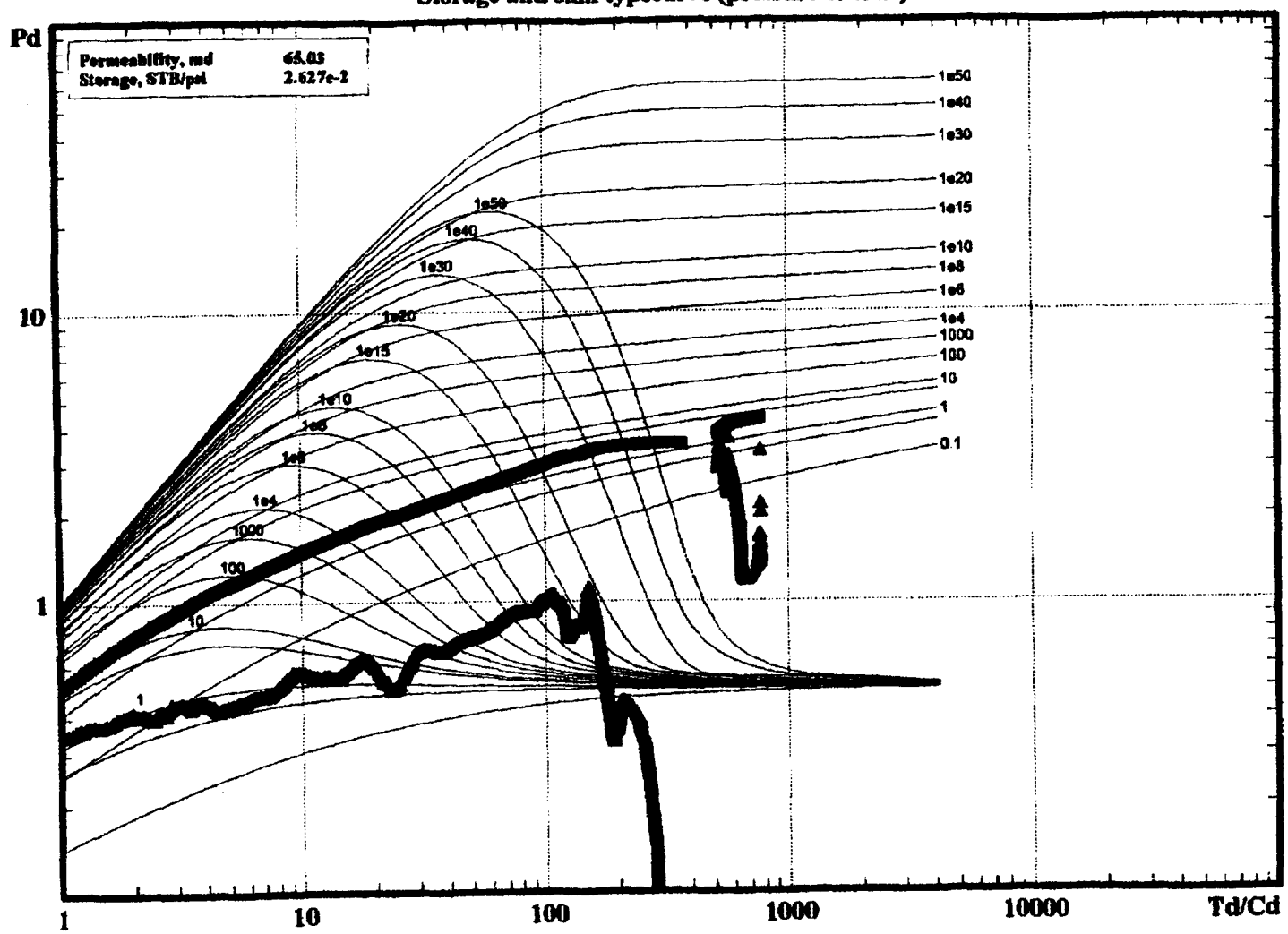
Figure 2

Automate v1.2 - RGJ Demo Copy (exp Mar 15) - 04/23/95 07:59:02

David Lutner

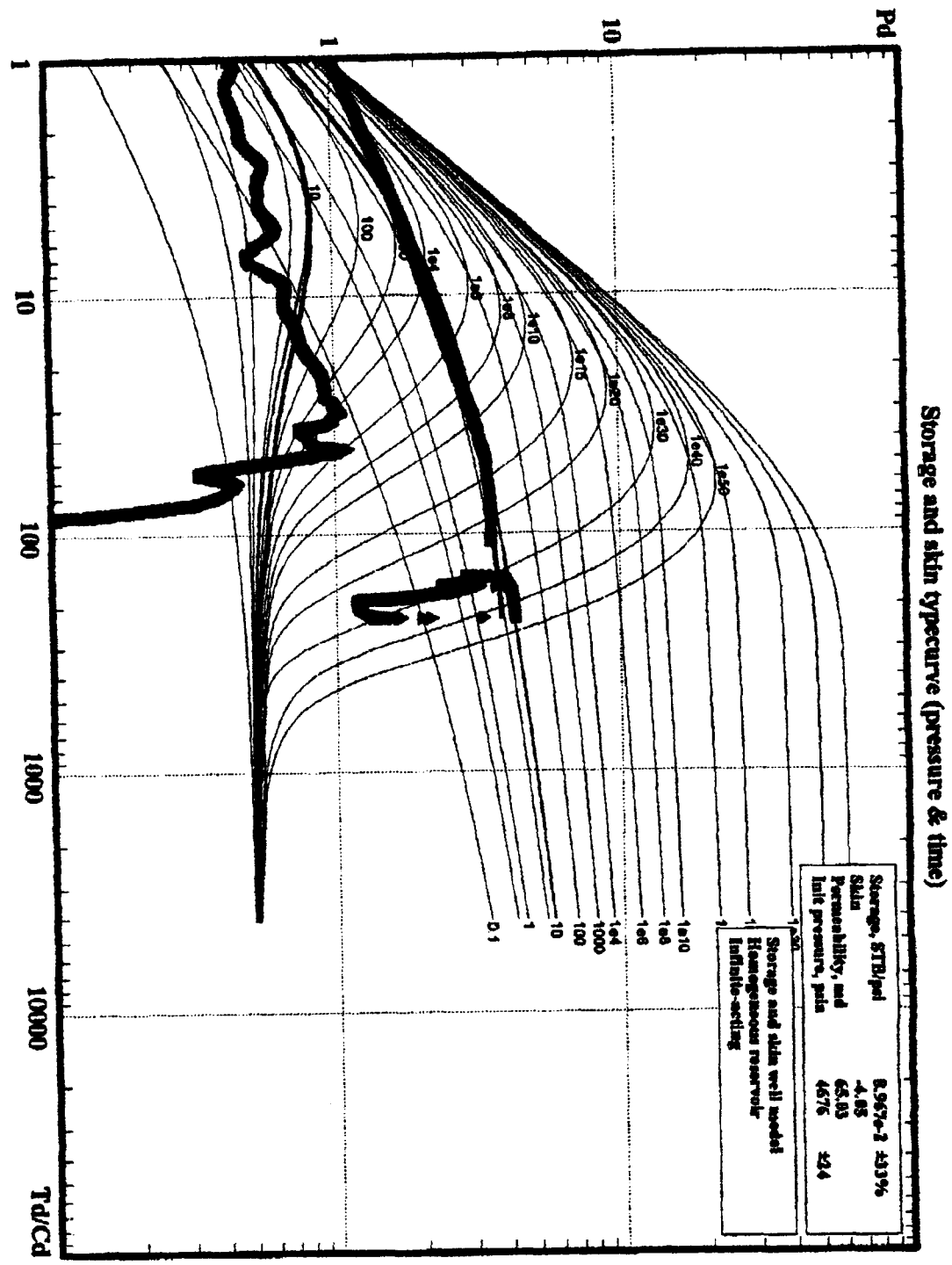
4/23/95 08:37:49

Storage and skin typecurve (pressure & time)



Automate v1.2 - MGI Demo Copy (exp May '95) - 04/23/95 08:25:18

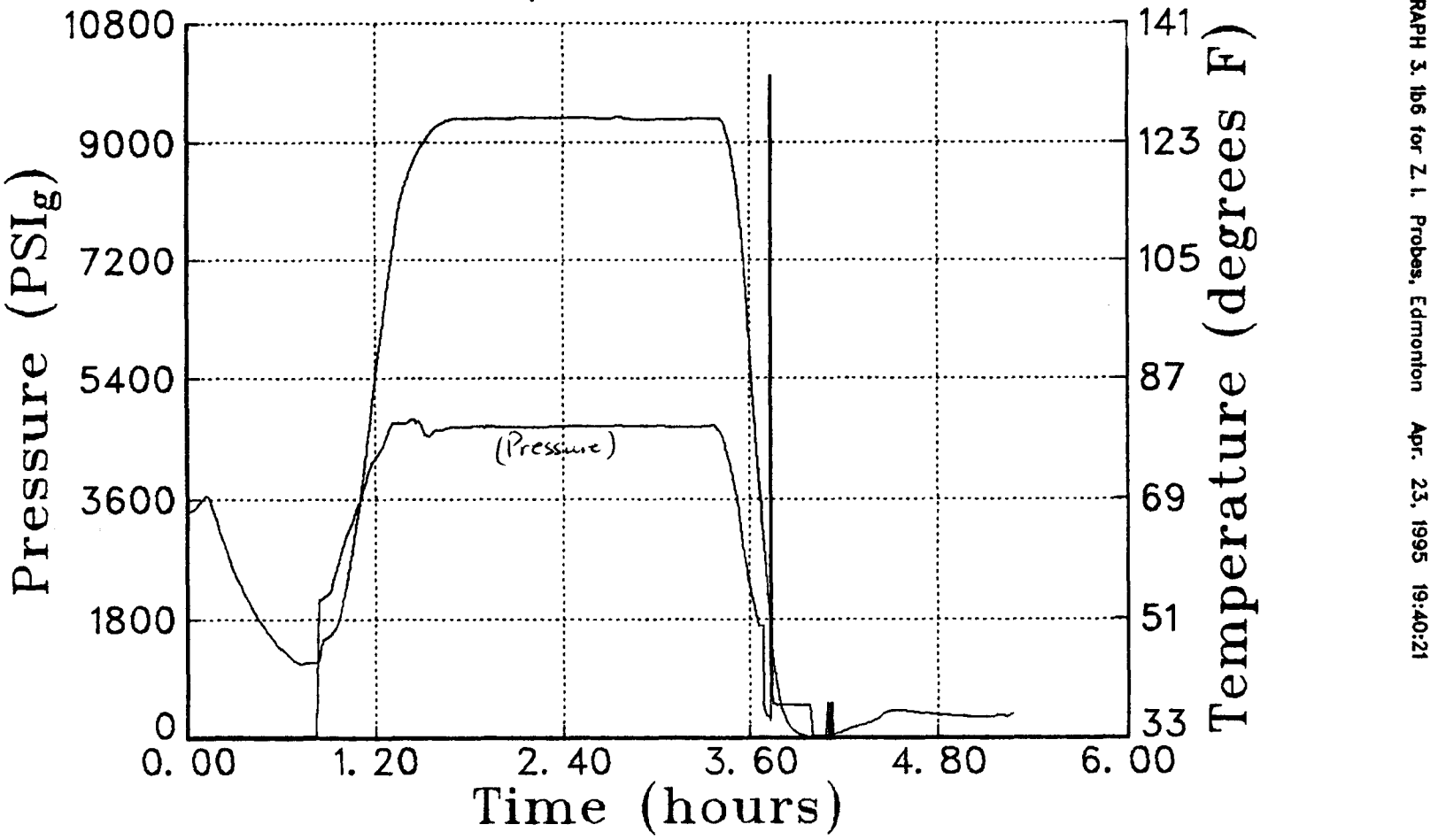
APR-23-95 SUN 10:50 AM G3 P. 1


Storage and skin typecurve (pressure & time)
Pd
Td/Cd
Autofit
Storage, STB/psi 8.9676e-2 ±33%
Skin -4.85
Permeability, md 65.03
Init pressure, psia 4676 ±24
Storage and skin well model
Homogeneous reservoir
Infinite-acting

Final Pressure point of Build up on DST 4 Bomb run with Bottom Hole sampler

Hunt Oil Test 6

April 23, 95



ZIPGRAPH 3.1b6 for Z.I. Probes, Edmonton Apr. 23, 1995 19:40:21

Data Listing: Every point of the generic data f:l-

Probe Number: M47
Company: SOLID RESOURCES
Well: Port-au-Port #1
Location: NFLD
Test Date(s): 23 April - 2 - 5:57pm (run in with Core Lab Sampler)

Time	Pressure (psig)	Temperature (degrees F)
Sun Apr 23, 1995		
14:16:25	23.180	67.5663
14:17:35	23.219	67.5848
14:18:35	23.292	67.8741
14:19:35	23.338	68.3649
14:20:35	23.368	68.7923
14:21:35	23.412	69.2167
14:22:35	23.485	69.8081
14:23:35	23.409	69.9732
14:24:35	23.256	69.3356
14:25:35	23.070	68.2193
14:26:35	22.948	67.0416
14:27:35	22.818	65.8646
14:28:35	22.655	64.6909
14:29:35	22.477	63.5145
14:30:35	22.312	62.3555
14:31:35	22.167	61.2312
14:32:35	21.986	60.1588
14:33:35	21.849	59.1275
14:34:35	21.686	58.1490
14:35:35	21.523	57.2170
14:36:35	21.379	56.3355
14:37:35	21.291	55.5061
14:38:35	21.142	54.7136
14:39:35	21.016	53.9600
14:40:35	20.926	53.2328
14:41:35	20.826	52.5344
14:42:35	20.719	51.8748
14:43:35	20.646	51.2549
14:44:35	20.506	50.6618
14:45:35	20.435	50.0893
14:46:35	20.360	49.5398
14:47:35	20.223	49.0175
14:48:35	20.268	48.4926
14:49:35	20.210	47.9713
14:50:35	20.113	47.5074
14:51:35	20.045	47.0970
14:52:35	19.934	46.7236
14:53:35	19.779	46.3739
14:54:35	19.657	46.0062
14:55:35	19.541	45.6061
14:56:35	19.467	45.1893
14:57:35	19.407	44.8625
14:58:35	19.396	44.7587
14:59:35	19.368	44.6119
15:00:35	19.423	44.5829
15:01:35	19.445	44.6942
15:02:35	19.430	44.7371
15:03:35	19.448	44.7683
15:04:35	19.406	44.7765
15:05:35	19.406	44.7553
15:06:35	2085.971	45.2514
15:06:45	2083.511	45.4973
15:06:55	2085.283	45.8180
15:07:05	2089.082	46.1936
15:07:35	2094.492	47.2382
15:07:45	2100.064	47.5270
15:07:55	2105.541	47.7650
15:08:05	2110.683	47.9655
15:08:15	2116.644	48.1070
15:08:25	2122.774	48.2237
15:08:35	2127.398	48.3135
15:08:45	2133.048	48.3757
15:08:55	2138.134	48.4232
15:09:05	2143.033	48.4462
15:09:15	2147.728	48.4741
15:09:25	2151.733	48.5030
15:09:35	2158.312	48.5270
15:09:45	2165.957	48.5730
15:09:55	2171.590	48.5936
15:10:05	2175.610	48.6381
15:10:15	2179.655	48.6781
15:10:25	2184.011	48.7255
15:10:35	2189.280	48.7757
15:10:45	2195.306	48.8205
15:10:55	2210.846	48.8723
15:11:05	2225.409	48.9335
15:11:15	2242.589	48.9959

Probe Number:

Time	Pressure (psig)	Temperature (degrees F)
Sun Apr 23, 1995		
15:11:25	2263.799	49.0614
15:11:35	2289.190	49.1467
15:11:45	2313.312	49.2282
15:11:55	2338.090	49.3141
15:12:05	2360.502	49.4057
15:12:15	2381.068	49.5021
15:12:25	2401.470	49.5860
15:12:35	2423.616	49.6752
15:12:45	2446.396	49.7814
15:12:55	2471.678	49.8933
15:13:05	2497.769	50.0030
15:13:15	2515.838	50.1474
15:13:25	2531.766	50.3079
15:13:35	2551.665	50.4837
15:13:45	2575.289	50.6869
15:13:55	2600.247	50.9157
15:14:05	2624.301	51.1408
15:14:15	2648.636	51.3874
15:14:25	2673.533	51.6448
15:14:35	2699.802	51.9152
15:14:45	2728.165	52.2112
15:14:55	2750.872	52.5014
15:15:05	2769.793	52.7959
15:15:15	2788.898	53.0950
15:15:25	2807.786	53.3944
15:15:35	2826.612	53.6875
15:15:45	2845.465	53.9790
15:15:55	2866.033	54.2801
15:16:05	2886.868	54.5622
15:16:15	2908.734	54.8519
15:16:25	2931.481	55.1278
15:16:35	2955.720	55.4147
15:16:45	2981.692	55.7106
15:16:55	3004.364	56.0028
15:17:05	3025.261	56.3029
15:17:15	3045.394	56.6205
15:17:25	3064.898	56.9555
15:17:35	3084.182	57.2962
15:17:45	3102.890	57.6632
15:17:55	3117.922	58.0227
15:18:05	3126.399	58.4077
15:18:15	3140.394	58.8024
15:18:25	3153.929	59.2195
15:18:35	3164.556	59.6130
15:18:45	3179.688	60.0324
15:18:55	3192.822	60.4266
15:19:05	3206.428	60.8393
15:19:15	3224.808	61.2673
15:19:25	3244.023	61.6916
15:19:35	3265.772	62.1019
15:19:45	3286.431	62.5237
15:19:55	3306.646	62.9437
15:20:05	3325.435	63.3827
15:20:15	3345.001	63.7833
15:20:25	3365.785	64.2029
15:20:35	3386.424	64.6134
15:20:45	3408.323	65.0562
15:20:55	3426.628	65.4769
15:21:05	3447.997	65.9196
15:21:15	3471.278	66.3532
15:21:25	3489.478	66.7860
15:21:35	3506.018	67.2308
15:21:45	3522.162	67.6821
15:21:55	3534.423	68.1198
15:22:05	3546.206	68.5611
15:22:15	3561.549	69.0172
15:22:25	3577.810	69.4603
15:22:35	3595.704	69.8995
15:22:45	3614.268	70.3326
15:22:55	3633.548	70.7719
15:23:05	3651.677	71.2191
15:23:15	3672.374	71.6520
15:23:25	3693.843	72.0931
15:23:35	3716.162	72.5249
15:23:45	3738.442	72.9735
15:23:55	3756.519	73.4110
15:24:05	3771.176	73.8556
15:24:15	3786.816	74.3178
15:24:25	3802.575	74.7718
15:24:35	3818.945	75.2288
15:24:45	3840.148	75.7049
15:24:55	3862.751	76.1755
15:25:05	3883.970	76.6475
15:25:15	3909.584	77.5326
15:25:25	3928.445	78.0435
15:25:35	3948.680	78.5696
15:25:45	3965.226	78.8792
15:25:55	3985.785	79.3701
15:26:05	4007.440	79.8679
15:26:15	4029.564	80.3916
15:26:25	4050.455	80.8715
15:26:35	4069.211	81.4103
15:26:45	4087.077	81.9477
15:26:55	4103.645	82.4976
15:27:05	4120.805	83.0454

Probe Number:

Page:

Time	Pressure (psig)	Temperature (degrees F)
Sun Apr 23, 1995		
15:27:15	4136.307	83.6258
15:27:25	4144.915	84.1956
15:27:35	4155.248	84.7634
15:27:45	4163.927	85.3354
15:27:55	4170.408	85.9076
15:28:15	4180.143	87.0368
15:28:25	4188.814	87.5888
15:28:35	4200.582	88.1360
15:28:45	4213.398	88.6690
15:28:55	4224.932	89.1869
15:29:05	4236.352	89.7181
15:29:15	4244.350	90.2495
15:29:25	4253.901	90.7647
15:29:35	4258.392	91.2778
15:29:45	4271.708	91.7714
15:29:55	4283.974	92.2539
15:30:05	4300.378	92.7245
15:30:15	4312.915	93.2227
15:30:25	4322.057	93.7074
15:30:35	4329.268	94.1818
15:30:45	4343.689	94.6659
15:30:55	4347.422	95.1283
15:31:05	4356.408	95.5984
15:31:15	4368.722	96.0342
15:31:25	4385.026	96.4873
15:31:35	4402.554	96.9456
15:31:45	4419.400	97.3922
15:31:55	4435.806	97.8395
15:32:05	4451.902	98.2852
15:32:15	4467.067	98.7380
15:32:25	4480.785	99.1746
15:32:35	4496.642	99.6338
15:32:45	4513.115	100.0716
15:32:55	4529.608	100.5346
15:33:05	4545.122	100.9810
15:33:15	4561.652	101.4551
15:33:25	4577.467	101.9277
15:33:35	4593.855	102.4352
15:33:45	4608.656	102.9081
15:33:55	4624.219	103.3881
15:34:05	4641.195	103.8588
15:34:15	4652.967	104.3593
15:34:25	4664.880	104.8441
15:34:35	4677.469	105.3299
15:34:45	4688.930	105.8218
15:34:55	4701.649	106.3228
15:35:05	4715.521	106.8312
15:35:15	4722.115	107.3485
15:35:25	4729.794	107.8542
15:35:35	4734.270	108.3422
15:35:45	4733.908	108.8361
15:35:55	4733.917	109.3290
15:36:05	4733.961	109.8081
15:36:15	4733.914	110.2890
15:36:25	4733.926	110.7555
15:36:35	4734.120	111.2055
15:36:45	4734.037	111.6400
15:36:55	4734.013	112.0556
15:37:05	4734.087	112.4583
15:37:15	4734.136	112.8482
15:37:25	4734.172	113.2214
15:37:35	4734.181	113.5742
15:37:45	4734.215	113.9159
STOP @ 11096 15:37:55	4734.120	114.2379
15:38:05	4734.098	114.5513
15:38:15	4734.144	114.8467
15:38:25	4734.124	115.1331
15:38:35	4734.138	115.4103
15:38:45	4734.281	115.6719
15:38:55	4734.327	115.9233
15:39:05	4734.314	116.1657
15:39:15	4734.269	116.3986
15:39:25	4734.327	116.6278
15:39:35	4734.358	116.8394
15:39:45	4734.319	117.0451
15:39:55	4734.308	117.2456
15:40:05	4734.391	117.4362
15:40:15	4734.327	117.6199
15:40:35	4734.485	117.9723
15:40:55	4741.627	118.3864
15:41:05	4745.301	118.5236
15:41:15	4750.594	118.6874
15:41:25	4755.191	118.8231
15:41:35	4757.387	118.9625
15:41:45	4765.277	119.1146
15:41:55	4772.982	119.2741
15:42:05	4779.661	119.4451
15:42:15	4786.309	119.5882
15:42:25	4789.250	119.7594
15:42:35	4789.078	119.9358
15:42:55	4789.303	120.2906
15:43:05	4789.144	120.4694
15:43:15	4788.907	120.6492
ESLP @ 11354 15:43:35	4789.109	120.9951
15:43:45	4780.909	121.1520

Probe Number:

Page:

Time	Pressure (psig)	Temperature (degrees F)
Sun Apr 23, 1995		
15:43:55	4725.371	121.3075
15:44:05	4743.632	121.4607
15:44:15	4751.243	121.6077
15:44:25	4756.718	121.7514
15:44:45	4757.143	122.0237
15:44:55	4755.070	122.1531
15:45:05	4751.294	122.2748
15:45:15	4746.595	122.3980
15:45:25	4739.678	122.5153
15:45:35	4732.639	122.6321
15:45:45	4724.301	122.7444
15:45:55	4713.472	122.8517
15:46:05	4705.697	122.9578
15:46:15	4692.824	123.0553
15:46:25	4671.995	123.1576
15:46:35	4652.919	123.2496
15:46:45	4635.095	123.3423
15:46:55	4612.084	123.4383
15:47:05	4593.946	123.5375
15:47:15	4574.200	123.6284
15:47:25	4558.028	123.7139
15:47:35	4556.141	123.8032
15:47:45	4554.083	123.8904
15:47:55	4552.123	123.9822
15:48:05	4550.161	124.0710
15:48:15	4544.532	124.1605
15:48:25	4541.665	124.2503
15:48:35	4538.575	124.3351
15:48:45	4535.853	124.4244
15:48:55	4532.855	124.5184
15:49:05	4529.400	124.6091
15:49:15	4528.268	124.6967
15:49:25	4535.256	124.7830
15:49:35	4543.272	124.8708
15:49:45	4550.280	124.9625
15:49:55	4556.387	125.0410
15:50:05	4561.550	125.1209
15:50:15	4566.649	125.2089
15:50:25	4570.871	125.2866
15:50:35	4579.048	125.3629
15:50:45	4589.023	125.4431
15:50:55	4597.701	125.5135
15:51:05	4605.176	125.5749
15:51:15	4611.645	125.6407
15:51:25	4617.106	125.7131
15:51:35	4621.765	125.7741
15:51:45	4625.969	125.8307
15:51:55	4621.718	125.8866
15:53:35	4625.357	126.3389
15:54:35	4627.304	126.5380
15:55:35	4650.152	126.6830
15:55:45	4651.543	126.7053
15:55:55	4653.069	126.7294
15:56:05	4654.856	126.7496
15:56:15	4656.201	126.7673
15:56:25	4657.549	126.7891
15:56:35	4658.753	126.8068
15:56:45	4659.885	126.8215
15:57:05	4662.104	126.8537
15:57:25	4663.930	126.8836
15:57:35	4665.142	126.8960
15:57:55	4666.770	126.9197
15:58:15	4668.941	126.9417
15:58:35	4670.117	126.9572
15:58:55	4671.926	126.9714
15:59:15	4673.384	126.9886
15:59:35	4671.136	126.9986
15:59:45	4667.985	127.0044
15:59:55	4665.789	127.0080
16:00:15	4664.650	127.0181
16:00:45	4663.515	127.0258
16:00:55	4665.691	127.0283
16:01:15	4667.176	127.0328
16:01:45	4668.228	127.0364
16:02:25	4670.287	127.0436
16:02:35	4671.325	127.0453
16:02:55	4672.631	127.0458
16:03:05	4673.751	127.0505
16:03:45	4675.001	127.0556
16:04:25	4676.231	127.0644
16:05:05	4677.451	127.0684
16:05:25	4678.558	127.0681
16:05:35	4677.543	127.0723
16:05:55	4679.157	127.0750
16:06:25	4680.579	127.0731
16:06:55	4682.895	127.0763
16:07:35	4681.111	127.0803
16:07:55	4679.994	127.0799
16:09:35	4678.502	127.0653
16:10:15	4677.402	127.0717
16:11:35	4678.709	127.0657
16:12:35	4679.573	127.0737
16:13:35	4679.786	127.0699
16:14:35	4677.449	127.0718
16:15:15	4676.425	127.0804

Probe Number:

Page:

Time	Pressure (psig)	Temperature (degrees F)
Sun Apr 23, 1995		
16:16:35	4675.646	127.0791
16:17:35	4675.134	127.0803
16:18:35	4674.909	127.0867
16:19:35	4674.763	127.0920
16:20:35	4674.807	127.0951
16:21:35	4674.793	127.1010
16:22:35	4674.933	127.1060
16:23:35	4673.668	127.1126
16:24:35	4673.237	127.1220
16:25:35	4673.345	127.1211
16:26:35	4673.614	127.1244
16:27:35	4673.621	127.1311
16:28:35	4673.734	127.1393
16:29:35	4673.896	127.1436
16:30:35	4674.535	127.1540
16:31:35	4675.154	127.1585
16:32:35	4676.151	127.1667
16:33:35	4677.079	127.1758
16:34:35	4677.844	127.1799
16:35:35	4678.622	127.1856
16:36:35	4679.134	127.1885
16:37:35	4679.678	127.1924
16:38:35	4680.251	127.1937
16:39:35	4680.759	127.1925
16:40:35	4681.282	127.1912
16:41:35	4681.656	127.1917
16:42:35	4681.926	127.1926
16:43:35	4682.298	127.1865
16:44:35	4682.906	127.1852
16:45:35	4683.946	127.1834
16:46:15	4685.022	127.1902
16:47:05	4686.070	127.1879
16:48:35	4687.411	127.1720
16:49:35	4687.576	127.1696
16:50:35	4687.167	127.1469
16:51:35	4687.122	127.1288
16:52:35	4687.183	127.1100
16:53:35	4687.376	127.0902
16:54:35	4687.640	127.0732
16:55:35	4687.873	127.0568
16:56:35	4687.873	127.0397
16:57:35	4686.881	127.0191
16:58:35	4686.448	127.0024
16:59:35	4686.186	126.9886
17:00:35	4691.244	127.3272
17:01:35	4690.984	127.3366
17:02:35	4691.038	127.3232
17:03:35	4684.632	126.9494
17:04:35	4684.307	126.9488
17:05:35	4684.339	126.9407
17:06:35	4684.127	126.9323
17:07:35	4683.882	126.9317
17:08:35	4683.799	126.9300
17:09:35	4683.622	126.9254
17:10:35	4683.455	126.9227
17:11:35	4683.406	126.9215
17:12:35	4683.451	126.9177
17:13:35	4683.359	126.9144
17:14:35	4683.454	126.9147
17:15:35	4683.157	126.9102
17:16:35	4682.683	126.9088
17:17:35	4682.519	126.9063
17:18:35	4681.470	126.9044
17:18:55	4680.456	126.9091
17:19:25	4679.261	126.9078
17:20:05	4678.004	126.9127
17:20:45	4676.950	126.9110
17:21:25	4675.925	126.9130
17:22:05	4674.797	126.9143
17:22:45	4673.770	126.9110
17:23:25	4672.735	126.9163
17:24:15	4671.545	126.9182
17:25:05	4670.392	126.9211
17:25:45	4669.189	126.9250
17:26:15	4668.145	126.9269
17:26:45	4667.054	126.9320
17:27:15	4666.033	126.9323
17:27:45	4665.019	126.9353
17:28:25	4663.997	126.9411
17:29:15	4662.988	126.9482
17:30:35	4662.026	126.9568
17:31:35	4661.425	126.9723
17:32:35	4669.183	126.9759
17:32:55	4671.105	126.9856
17:33:05	4672.148	126.9896
17:33:25	4674.072	126.9943
17:33:45	4675.889	126.9994
17:34:05	4677.390	127.0020
17:34:25	4678.953	127.0057
17:34:45	4680.457	127.0080
17:35:05	4681.933	127.0122
17:35:25	4683.370	127.0133
17:35:45	4684.587	127.0173
17:36:05	4685.889	127.0167
17:36:25	4687.078	127.0194

Probe Number:

Time	Pressure (psig)	Temperature (degrees F)
Sun Apr 23, 1995		
17:36:45	4688.293	127.0190
17:37:05	4689.417	127.0195
17:37:35	4690.848	127.0204
17:38:05	4692.286	127.0165
17:38:25	4693.320	127.0174
17:38:45	4689.768	127.0241
17:38:55	4682.053	127.0181
17:39:05	4674.824	127.0238
17:39:15	4666.349	127.0159
17:39:25	4656.509	127.0033
17:39:35	4645.880	127.0191
17:39:45	4637.507	127.0057
17:39:55	4628.080	127.0039
17:40:05	4622.622	127.0123
17:40:15	4618.048	126.9966
17:40:25	4613.098	126.9632
17:40:35	4604.928	126.9489
17:40:45	4591.518	126.9123
17:40:55	4577.878	126.8575
17:41:05	4564.657	126.8175
17:41:15	4550.391	126.7395
17:41:25	4535.944	126.6810
17:41:35	4521.740	126.5995
17:41:45	4505.239	126.5160
17:41:55	4489.027	126.4147
17:42:05	4472.570	126.3190
17:42:15	4454.854	126.1865
17:42:25	4435.378	126.0580
17:42:35	4416.049	125.8853
17:42:45	4394.363	125.7391
17:42:55	4372.620	125.5748
17:43:05	4353.529	125.3926
17:43:15	4332.403	125.0414
17:43:25	4311.427	124.8364
17:43:35	4291.562	124.6872
17:43:45	4266.940	124.4370
17:43:55	4244.299	124.1996
17:44:05	4219.484	123.9127
17:44:15	4194.722	123.6174
17:44:25	4170.132	123.2551
17:44:35	4146.520	122.9414
17:44:45	4121.440	122.6318
17:44:55	4096.164	122.3023
17:45:05	4068.354	121.9440
17:45:15	4041.162	121.5814
17:45:25	4012.282	121.1951
17:45:35	3982.482	120.7948
17:45:45	3950.552	120.4162
17:45:55	3917.686	119.9977
17:46:05	3884.111	119.5665
17:46:15	3849.598	119.1247
17:46:25	3813.458	118.6679
17:46:35	3777.421	118.2043
17:46:45	3742.101	117.7169
17:46:55	3707.521	117.2103
17:47:05	3672.711	116.7236
17:47:15	3636.305	116.1945
17:47:25	3596.301	115.6265
17:47:35	3556.984	115.0683
17:47:45	3515.372	114.4605
17:47:55	3469.524	113.8633
17:48:05	3422.511	113.1741
17:48:15	3375.938	112.8130
17:48:25	3321.225	111.9038
17:48:35	3272.151	111.4504
17:48:45	3221.061	110.6887
17:48:55	3160.621	110.1646
17:49:05	3086.143	109.0101
17:49:15	3021.267	108.2567
17:49:25	2972.058	107.5166
17:49:35	2932.342	106.8727
17:49:45	2892.816	105.9829
17:49:55	2857.695	105.4828
17:50:05	2818.855	104.4716
17:50:15	2776.822	103.2841
17:50:25	2741.678	102.6255
17:50:35	2704.116	101.7092
17:50:45	2666.558	100.8356
17:50:55	2628.677	99.8050
17:51:05	2596.968	98.9742
17:51:15	2562.082	97.9250
17:51:25	2529.880	97.1027
17:51:35	2494.500	95.9826
17:51:45	2457.523	95.1316
17:51:55	2420.208	94.0375
17:52:05	2381.441	93.1824
17:52:15	2343.851	91.9324
17:52:25	2308.939	91.0807
17:52:35	2271.572	89.9829
17:52:45	2237.704	89.0775
17:52:55	2200.801	88.0333
17:53:05	2163.368	86.9529
17:53:15	2126.544	86.0611
17:53:25	2096.035	85.0496
17:53:35	2064.969	83.9668

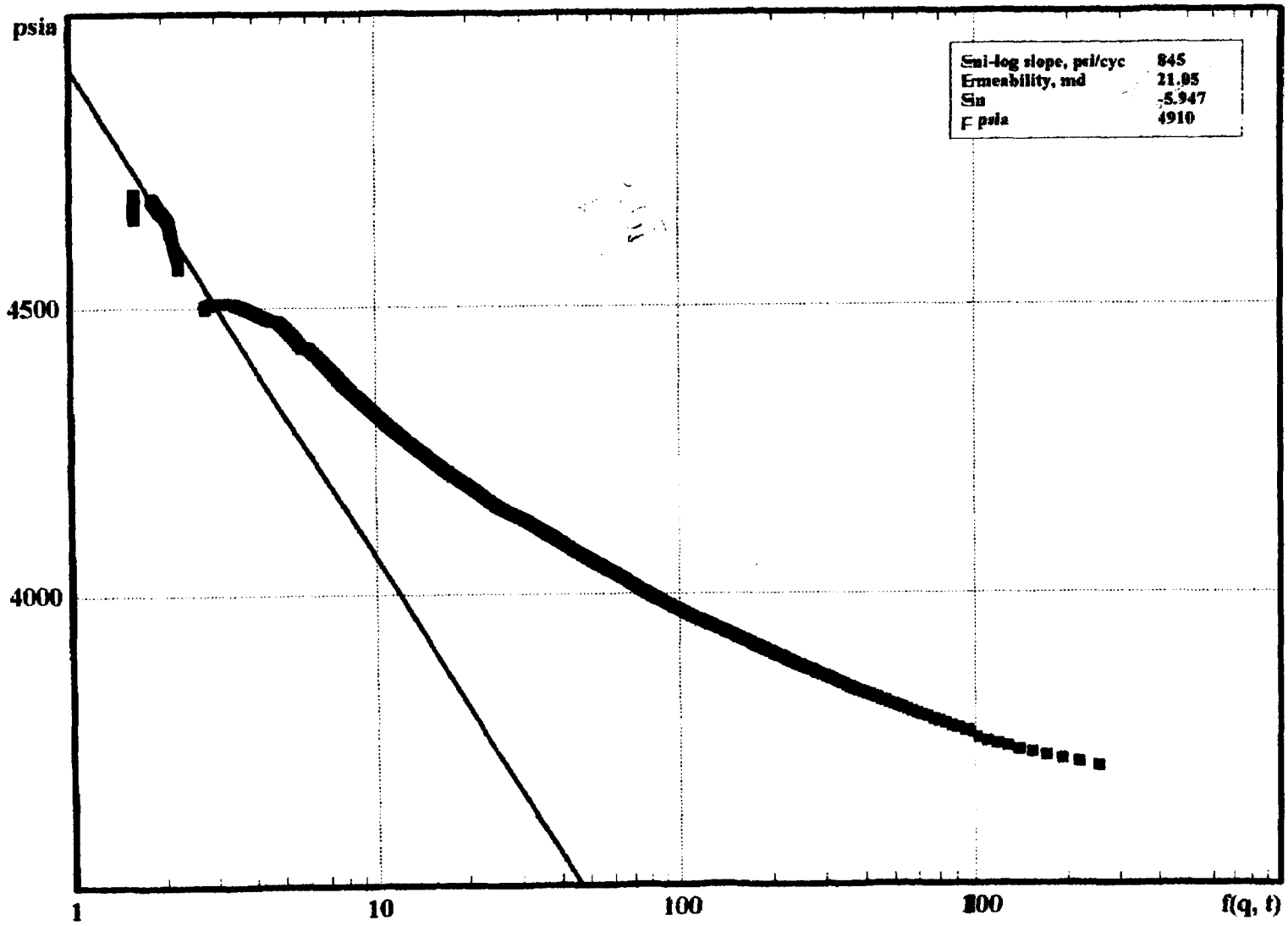
Probe Number:

Time	Pressure (psig)	Temperature (degrees F)
Sun Apr 23, 1995		
17:53:45	2033.593	82.9533
17:53:55	2004.112	82.0894
17:54:05	1973.669	80.9858
17:54:15	1945.204	80.0959
17:54:25	1912.278	79.0380
17:54:35	1883.138	78.2124
17:54:45	1852.569	77.1084
17:54:55	1823.049	76.1195
17:55:05	1795.018	75.2090
17:55:15	1766.279	74.2314
17:55:25	1740.427	73.3710
17:55:35	1715.935	72.4591
17:55:45	1699.144	71.5572
17:56:25	1694.154	68.2106
17:56:35	1695.120	67.4116
17:56:45	1694.902	66.6229
17:57:05	1693.071	65.0531
17:57:15	1692.761	64.2864
17:57:25	1686.740	63.5283
17:57:35	472.686	62.7172
17:57:45	444.176	61.9045
17:57:55	408.099	61.0605
17:58:05	386.085	60.1713
17:58:15	359.933	59.2182
17:58:25	327.942	58.3231
17:58:35	317.548	57.3310
17:58:45	320.449	56.3703
17:58:55	321.756	55.4362
17:59:05	322.590	54.5175
17:59:25	323.700	52.7719
17:59:45	307.541	51.1477
17:59:55	253.343	50.3425
18:00:05	550.248	49.6379
18:00:15	9999.938	48.9244
18:00:25	9999.938	48.2317
18:00:35	9999.938	47.5650
18:00:45	9999.938	46.9172
18:00:55	671.758	46.3047
18:01:05	510.952	45.6530
18:01:15	509.213	45.1201
18:01:25	510.526	44.5195
18:01:35	513.277	43.9595
18:01:45	507.462	43.4371
18:01:55	509.376	43.0399
18:02:05	506.144	42.5490
18:02:15	503.892	42.0871
18:02:25	495.261	41.6408
18:02:35	499.815	41.2309
18:03:05	495.942	39.9812
18:03:15	498.603	39.6256
18:03:25	494.755	39.2860
18:03:35	499.496	39.0567
18:03:45	493.745	38.7343
18:03:55	498.663	38.3702
18:04:05	489.163	38.1391
18:04:15	490.251	37.8735
18:04:35	488.808	37.3834
18:05:35	488.094	36.3729
18:06:35	487.565	35.6803
18:07:35	487.188	35.0585
18:08:35	486.917	34.5867
18:09:35	486.728	34.2682
18:10:35	486.590	34.0237
18:11:35	486.502	33.8804
18:12:35	486.392	33.6841
18:13:35	486.347	33.5926
18:14:35	486.311	33.5321
18:15:35	486.315	33.5291
18:16:35	0.000	33.6242
18:17:35	0.000	33.6154
18:18:35	0.000	33.6020
18:19:35	0.000	33.5592
18:20:35	0.000	33.5847
18:21:35	0.000	33.5757
18:22:35	518.768	33.4542
18:22:55	0.000	33.6063
18:23:05	0.000	33.6152
18:23:15	0.000	33.6276
18:23:25	520.083	33.5174
18:23:45	524.977	33.5462
18:23:55	0.000	33.6800
18:24:05	519.447	33.5653
18:24:15	0.000	33.7132
18:24:25	426.549	33.5944
18:24:35	0.000	33.7442
18:25:35	0.000	33.8501
18:26:35	0.000	33.9631
18:27:35	0.000	34.1009
18:28:35	0.000	34.2739
18:29:35	0.000	34.4266
18:30:35	0.000	34.6610
18:31:35	0.000	34.8098
18:32:35	0.000	34.9276
18:33:35	0.000	35.0263
18:34:35	0.000	35.1316

Probe Number:

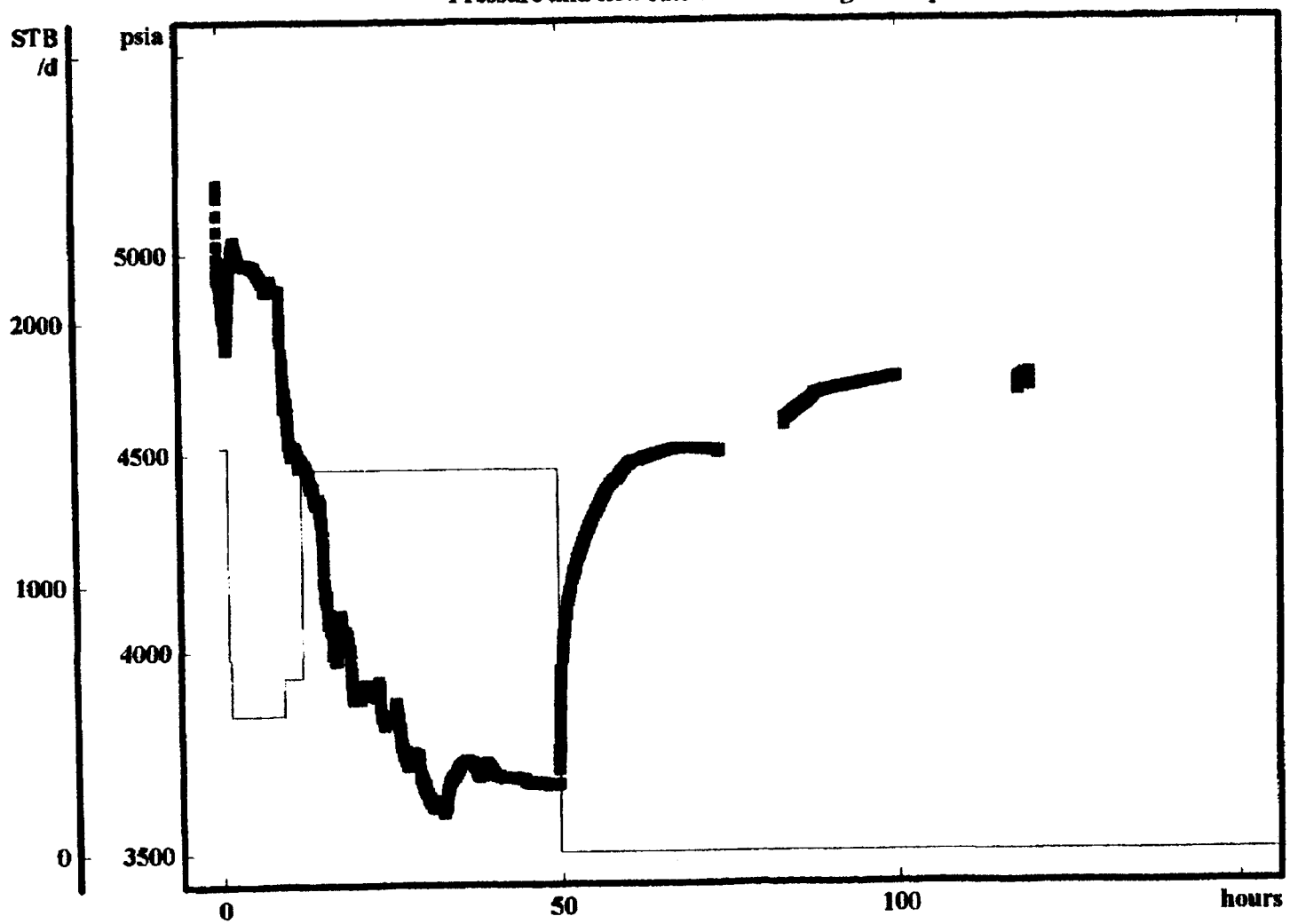
Time	Pressure (psig)	Temperature (degrees F)
Sun Apr 23, 1995		
18:35:35	0.000	35.2547
18:36:35	0.000	35.3942
18:37:35	0.000	35.5383
18:38:35	0.000	35.6832
18:39:35	0.000	35.8193
18:40:35	0.000	36.0008
18:41:35	0.000	36.1026
18:42:35	0.000	36.6092
18:43:35	0.000	36.9780
18:44:35	0.000	37.2190
18:45:35	0.000	37.3698
18:46:35	0.000	37.4436
18:47:35	0.000	37.4771
18:48:35	0.000	37.4740
18:49:35	0.000	37.4592
18:50:35	0.000	37.4348
18:51:35	0.000	37.3993
18:52:35	0.000	37.3606
18:53:35	0.000	37.3094
18:54:35	0.000	37.2720
18:55:35	0.000	37.2111
18:56:35	0.000	37.1515
18:57:35	0.000	37.1008
18:58:35	0.000	37.0521
18:59:35	0.000	37.0127
19:00:35	0.000	36.9690
19:01:35	0.000	36.9154
19:02:35	0.000	36.8684
19:03:35	0.000	36.8392
19:04:35	0.000	36.8026
19:05:35	0.000	36.7728
19:06:35	0.000	36.7496
19:07:35	0.000	36.7177
19:08:35	0.000	36.6816
19:09:35	0.000	36.6489
19:10:35	0.000	36.6176
19:11:35	0.000	36.5932
19:12:35	0.000	36.5724
19:13:35	0.000	36.5557
19:14:35	0.000	36.5464
19:15:35	0.000	36.5314
19:16:35	0.000	36.5131
19:17:35	0.000	36.4866
19:18:35	0.000	36.4733
19:19:35	0.000	36.4613
19:20:35	0.000	36.4543
19:21:35	0.000	36.4550
19:22:35	0.000	36.4527
19:23:35	0.000	36.4442
19:24:35	0.000	36.4320
19:25:35	0.000	36.5379
19:26:35	0.000	36.7082
19:27:35	0.000	36.7887
19:28:35	0.000	36.7846
19:29:35	0.000	36.6550
19:30:35	0.000	36.4529
19:31:35	0.000	36.6597
19:32:35	0.000	37.0320

Variable rate Horner plot (pressure & time)

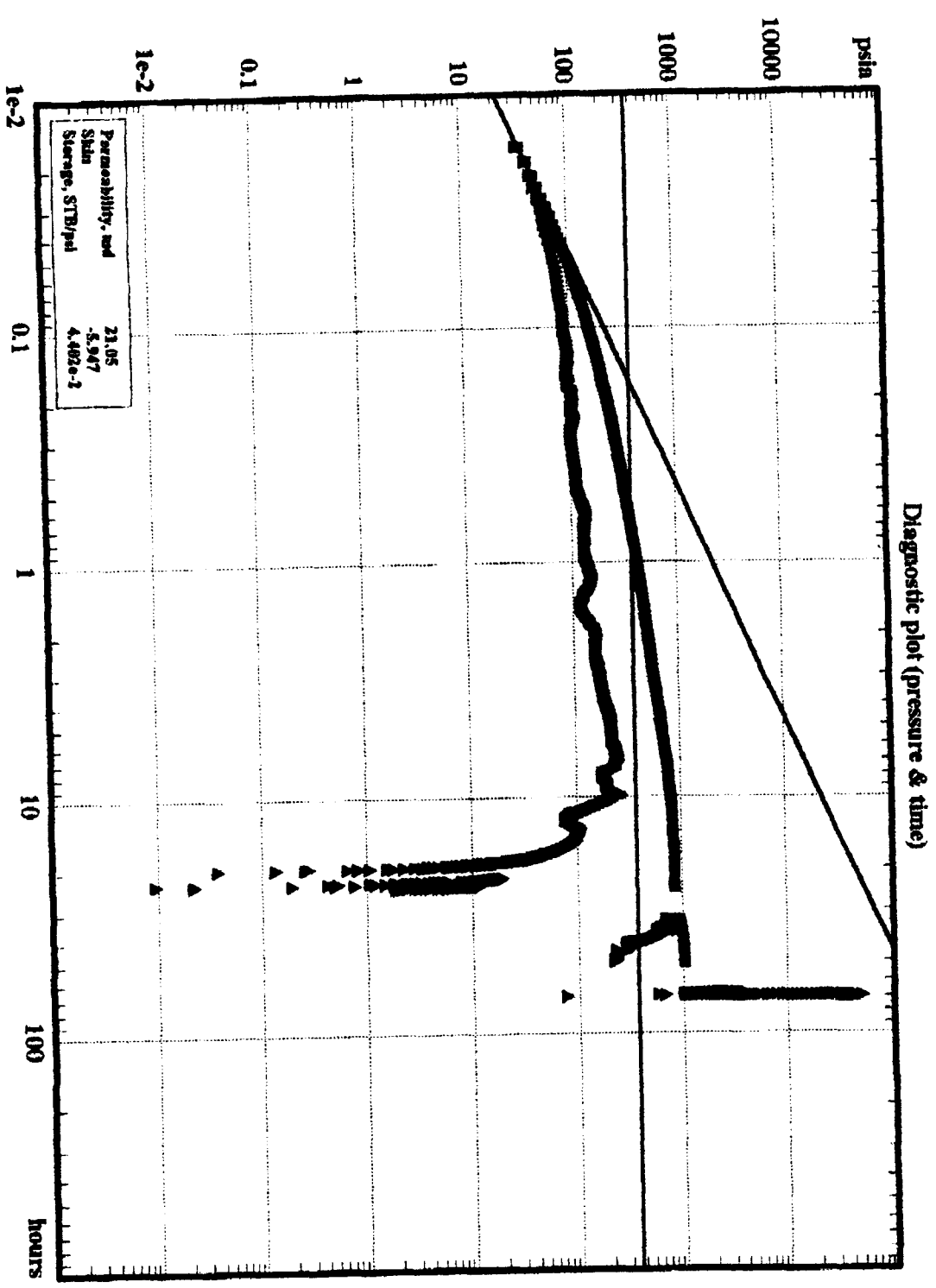


David Luttner

Pressure and flow rate vs time during test sequence



Automate v1.2 - MGI Demo Copy (exp May 15) - 04/23/95 18:02:41



Automatic v1.2 - IHS Demo Copy (exp May '15) - 04/23/95 11:59:15

Sunday April 23
DST 4 Final Flow

Time	Choke	Flowing Tbg. Press	Static Psig	Diff Psig	Temp °F	Gas MCF	Production Fluid BBL	Shut in Tbg. Press	Cut Oil	PH	Fluid Lvl	Gravity of Oil
								1688				
1830												
1840		1325										
1900		850	200	204	25	3.85	43.166	42.3/O	98%			
								.8/W		7		
1915		825	200	160	28	3.40						
1930		625	200	108	32	2.78	35.54	15.7/O	50%	7		
								15.7/W		7		
1945		600	200	60	32	2.07						
2000		648	200	50	36	1.88	44.00	25/O	57.9%	7		54.4
2015		680	200	51	39	1.90		19/W	50%	7		
2030		710	200	94	39	2.57	52	49/O	90%	7		
2045		710	200	81	39	2.39		3/W	95%	7		
2100		710	196	81	39	2.37	37	35.5/O	97%	7		
2115		705	196	84	41	2.41		1.5/W	95%	7		
2130		700	196	81	43	2.36	37	35.1/O	95%	7		
2135	OPEN	CHOKE	32/64					1.9/W				
2145	32/64	645	196	81	43	2.36			85%	7		
2200		640	196	80	43	2.34			75%	7		
2215		640	196	80	43	2.34			90%	7		
2230		640	196	80	43	2.34	83	70.5/O	90%	7		
~~2245~~		630	196	80	43	2.34		12.5/W	90%	7		
2300		605	196	72	45	2.22			90%	7		
2315		600	196	72	45	2.22			90%	7		
2330		600	196	80	45	2.34	83	74.7 BBL O	90%	7		
								8.5 BBL W				
	Sop:						6.6 BBL	5.9/O	90%			
								.7/W				

347.6 BBLS OIL
62.9 BBLS H_2O
410.7 BBLS = 1971 BPD (STB)

TOTAL PRODUCTION FOR 5 HRS.

Technical Schools

FINAL WELL REPORT

NHOC/PanCanadian Port au Port No. 1

APPENDIX V

PRODUCTION TEST DATA

V-10 DST Separator Flow Charts ..... NHOC

NEWFOUNDLAND HUNT OIL COMPANY INC.

JULY 1996

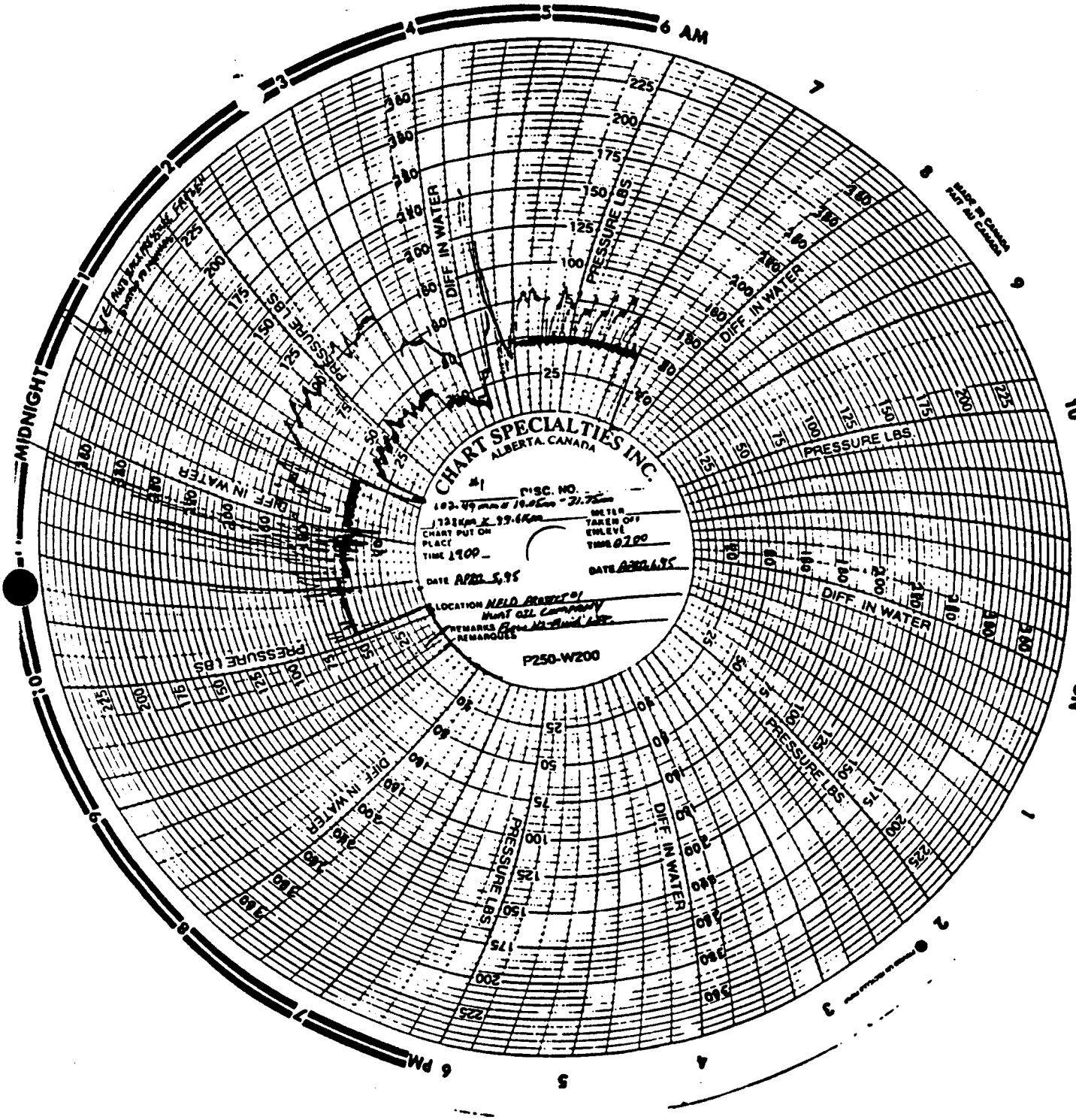


CHART SPECIALTIES INC.
ALBERTA, CANADA
DISC. NO.
#1
METER TAKEN OFF ENLEVÉ
TIME 0700
DATE APR 6,95
CHART PUT ON PLACÉ
TIME 1900
DATE APR 5,95
LOCATION NELD PROPERTY
HUNT OIL COMPANY
REMARKS REMARQUES
P250-W200
MIDNIGHT
NOON
6 AM
6 PM
PRESSURE LBS.
DIFF. IN WATER

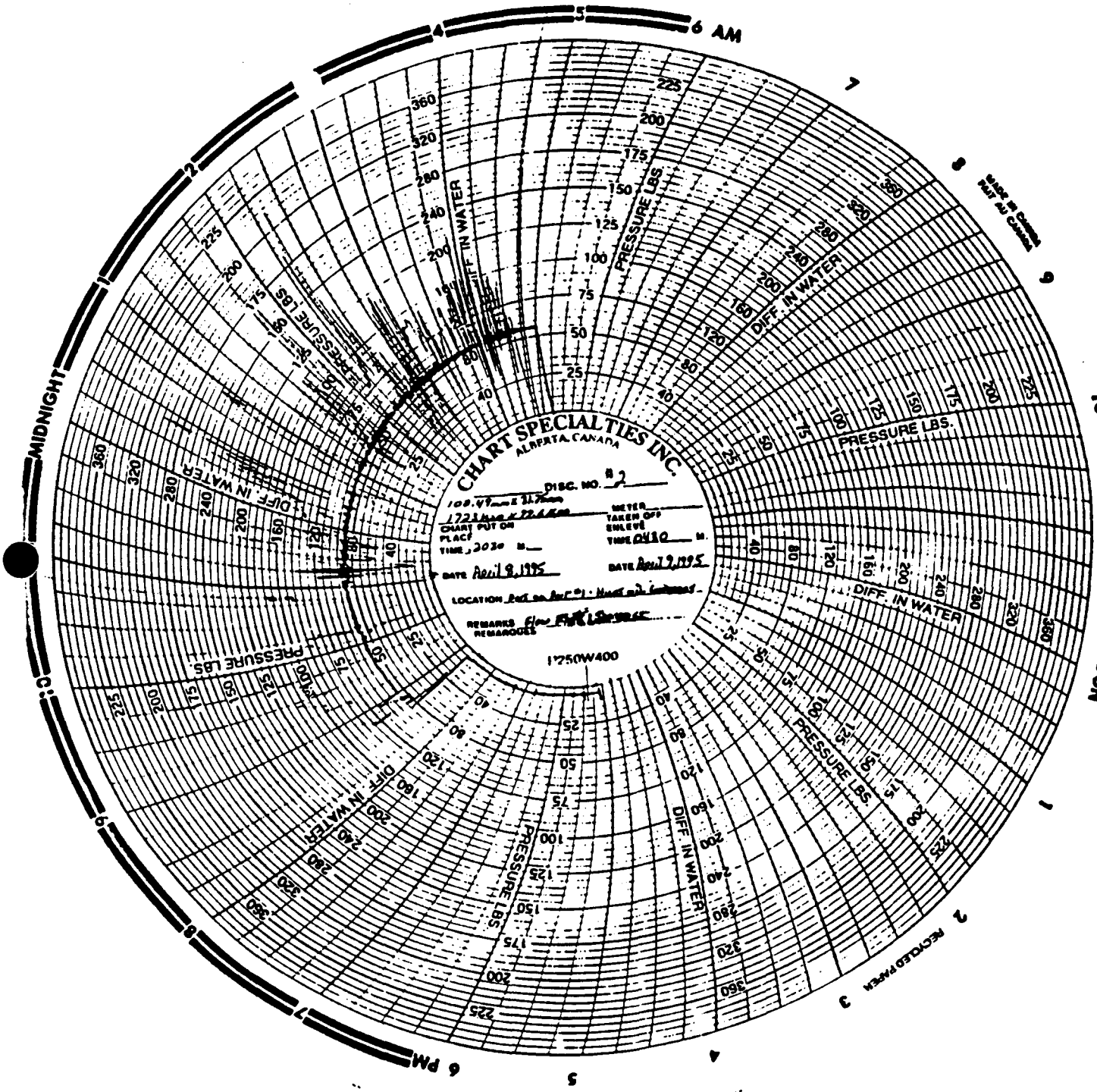


CHART SPECIALTIES INC.
ALBERTA, CANADA
DISC. NO. #2
CHART PUT ON
PLACE
TIME 2030 M.
DATE April 8, 1995
METER
TAKEN OFF
ENLEVÉ
TIME 0410 M.
DATE April 9, 1995
LOCATION
REMARKS
REMARQUES
1250W400
PRESSURE LBS.
DIFF. IN WATER
MIDNIGHT
NOON
6 AM
6 PM
RECYCLED PAPER
MADE IN CANADA
FAIT AU CANADA

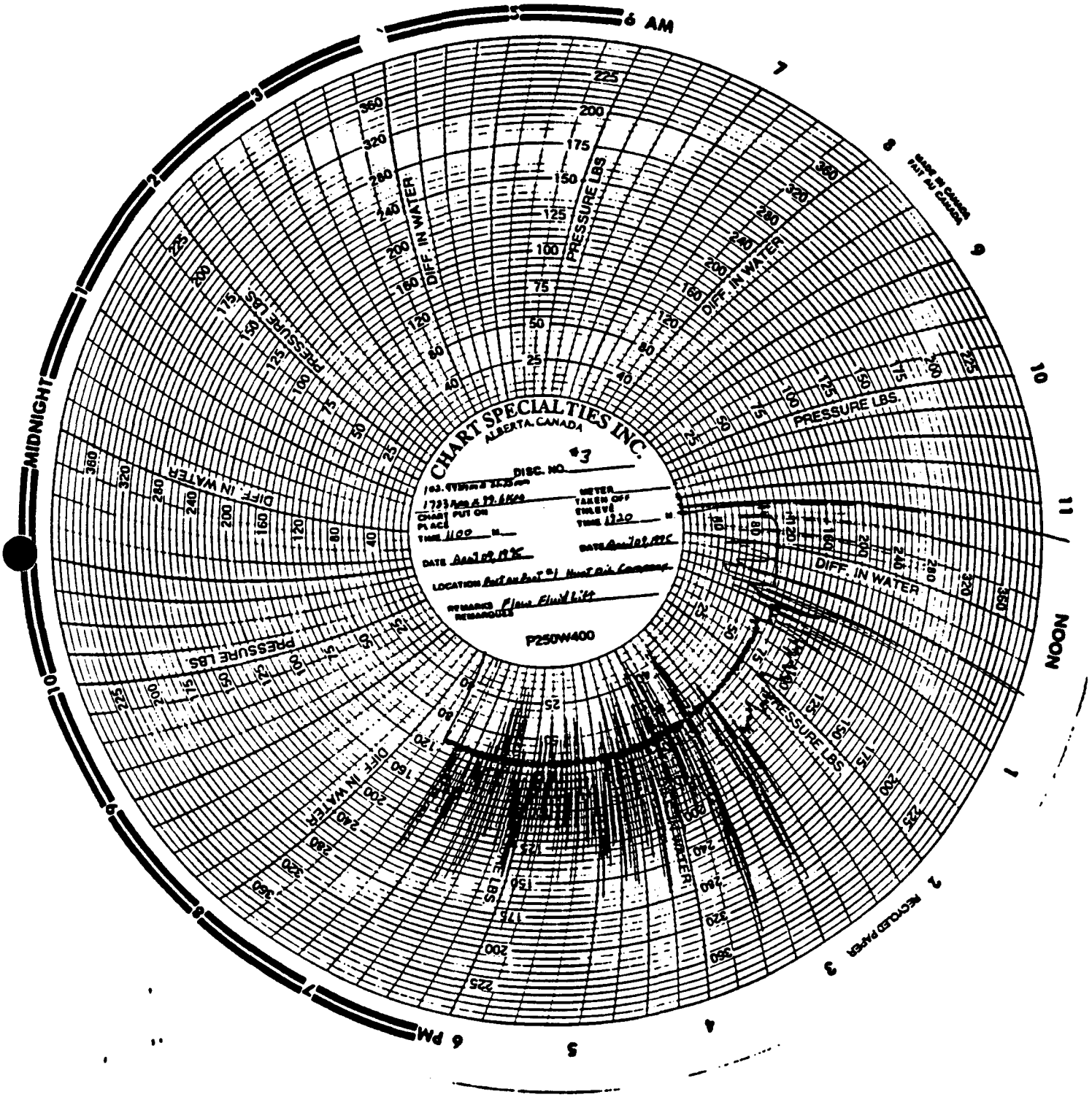


CHART SPECIALTIES INC.
ALBERTA, CANADA
DISC. NO. #3
METER
TAKEN OFF
TIME 1320 H.
PUT ON
TIME 1100 H.
DATE
LOCATION
REMARKS
P250W400
MIDNIGHT
6 AM
NOON
6 PM
PRESSURE LBS.
DIFF. IN WATER

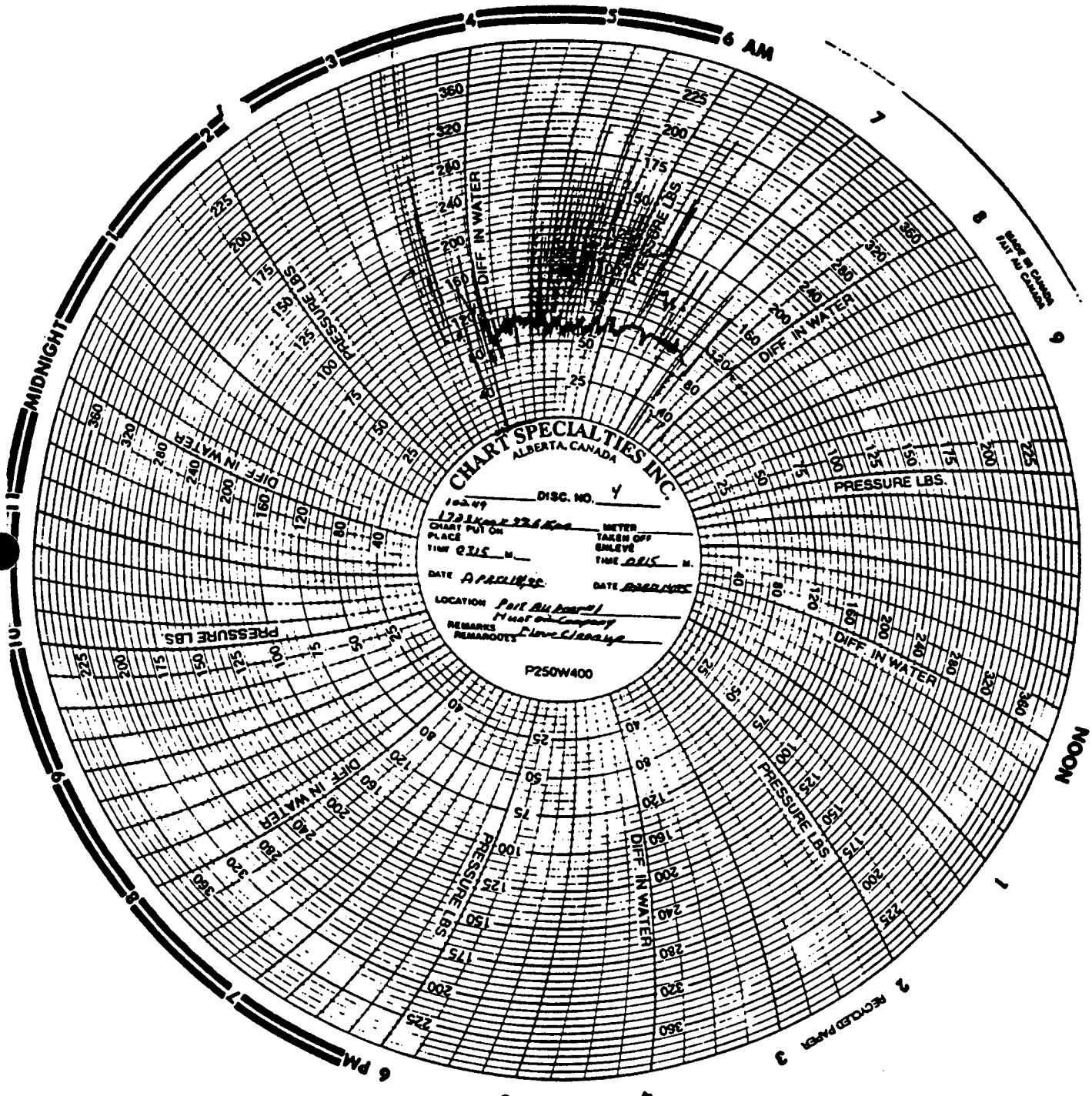


CHART SPECIALTIES INC.
ALBERTA, CANADA
DISC. NO. 4
CHART PUT ON PLACE
METER TAKEN OFF ENLEVÉ
TIME 0315 M.
TIME 0815 M.
DATE
DATE
LOCATION
REMARKS
REMARQUES
P250W400
MIDNIGHT
6 AM
6 PM
NOON
PRESSURE LBS.
DIFF. IN WATER
MADE IN CANADA
FAIT AU CANADA
RECYCLED PAPER

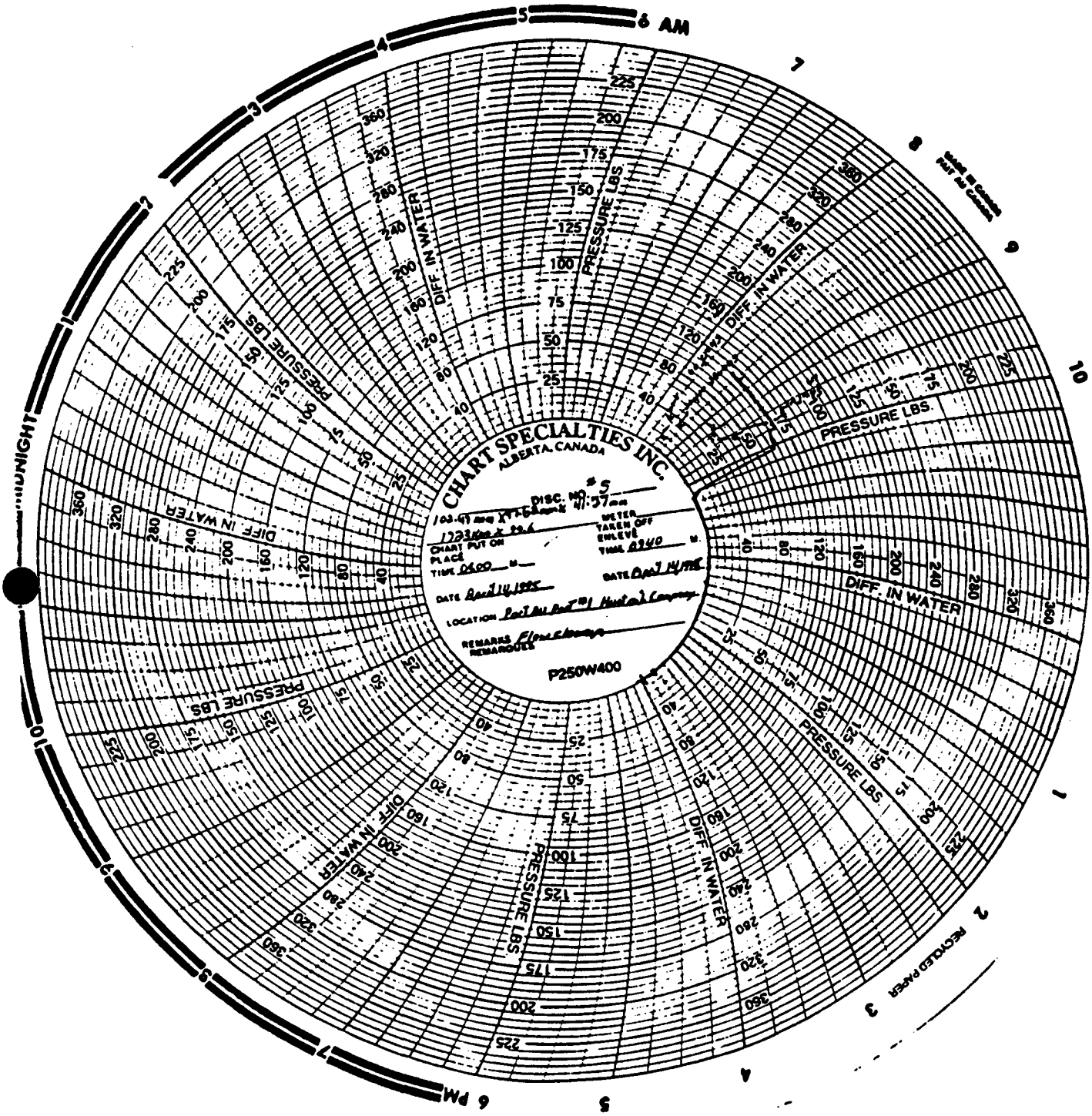


CHART SPECIALTIES INC.
ALBERTA, CANADA
DISC. NO. #5
CHART PUT ON PLACE
TIME 0600 M.
METER TAKEN OFF ENLEVÉ
TIME 0940 M.
DATE April 14, 1995
LOCATION
REMARKS REMARQUES
P250W400
PRESSURE LBS.
DIFF. IN WATER
6 AM
NOON
6 PM
MIDNIGHT
RECYCLED PAPER

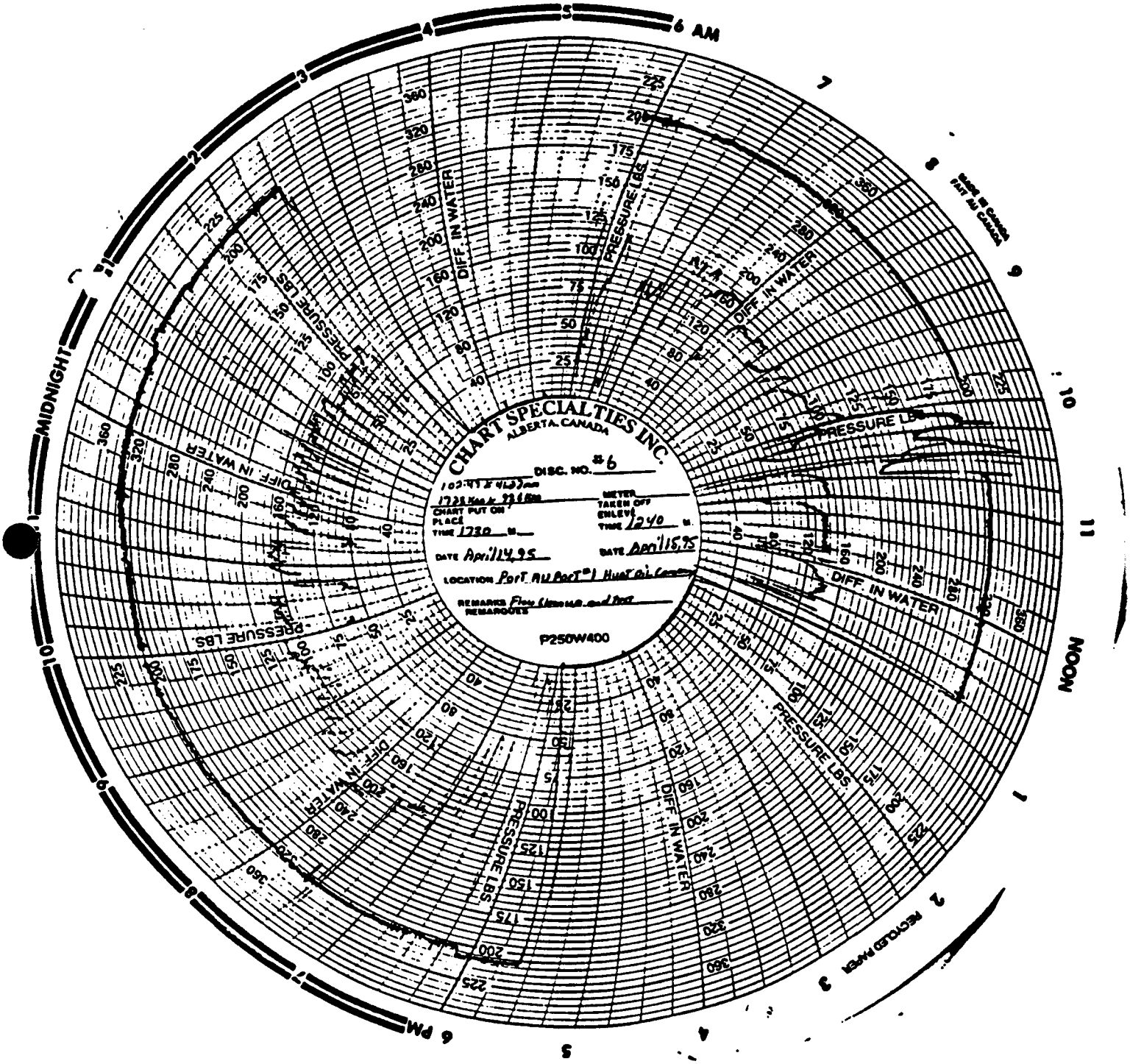


CHART SPECIALTIES INC.
ALBERTA, CANADA
DISC. NO. #6
CHART PUT ON PLACE
TIME 1730 M.
DATE April 14, 95
METER TAKEN OFF ENLEVÉ
TIME 1240 M.
DATE April 15, 95
LOCATION Port Au Port #1 Hunt Oil Company
REMARKS Flow Cleanup and Test
REMARQUES
P250W400
DIFF. IN WATER
PRESSURE LBS.
6 AM
NOON
6 PM
MIDNIGHT
MADE IN CANADA
FAIT AU CANADA
RECYCLED PAPER

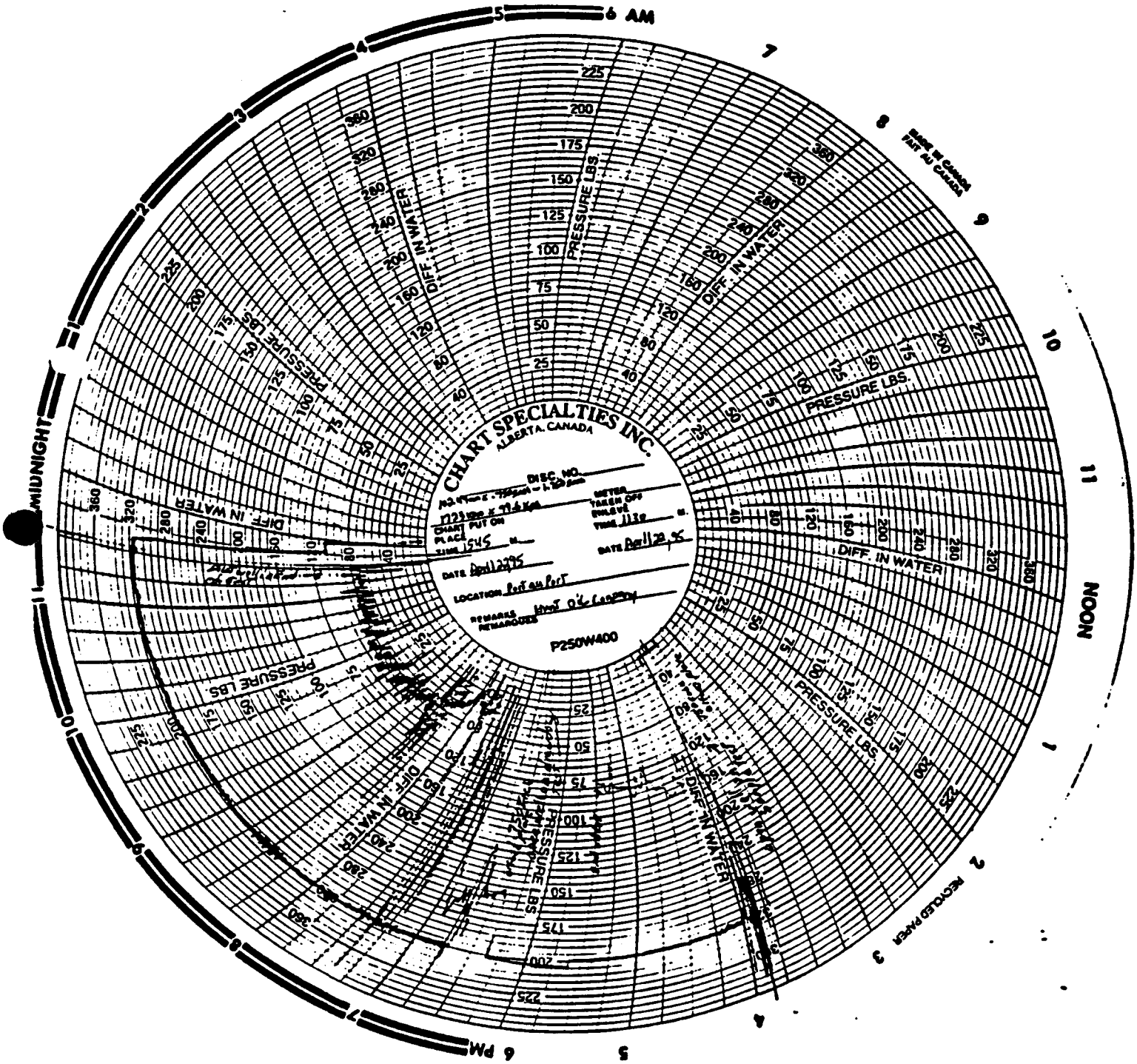


CHART SPECIALTIES INC.
ALBERTA, CANADA
P250W400
PRESSURE LBS.
DIFF. IN WATER
NOON
MIDNIGHT
6 AM
6 PM

FINAL WELL REPORT

NHOC/PanCanadian Port au Port No. 1

APPENDIX V

PRODUCTION TEST DATA

V-11 Pressure Test Reports ..... Z.I. Probes

NEWFOUNDLAND HUNT OIL COMPANY INC.

JULY 1996

ISO 9002
Reg. Firm 93-05

Accredited by the Dutch Council for Certification

Z.I. Probes Pressure Test Report

COMPANY INFORMATION

Company Name	Hunt Oil Company
Representative	
Phone	(403) 269-3400
Address	1450, 801 - 6th Avenue S.W. Calgary, AB T2P 3W2
Service Company	Solid Resources Ltd.

WELL INFORMATION

Well Name	Hunt Oil Port au Port #1
Well Location	Port au Port, Newfoundland
Field and pool	N/A
Status (oil, gas, water, injection)	Gas
Perforated Intervals	N/A
Mid point of Perforated Intervals (MPP)	N/A
Drilling Rig Number	
Elevations	
Kelly Bushing (KB)	N/A
Casing Flange (CF)	N/A
KB-CF	N/A
Ground Level (GL)	N/A
Plug back total depth	N/A
Total depth	N/A
Production Casing	N/A
Production Tubing	N/A

TEST INFORMATION

Test number / Type of test	Flow and Buildup
Date(s) of test	April 09 - 10/95
Dead-weight gauge tubing pressure	N/A
Dead-weight gauge casing pressure	N/A
Shut-in date (duration)	Apr. 09/95 @ 19:20
Date/time on bottom	Apr. 09/95 @ 09:05
Date/time off bottom	Apr. 10/95 @ 11:21
Run depth at probe pressure port	3354.81 mKB

PRESSURE TEST RESULTS

Maximum recorded probe pressure	37520.65 kPag
Maximum recorded probe temperature	55.19 Degrees C
Final buildup pressure	37060.57 kPag Pressure test at
Gradient Survey Information	Gradient not run.
Extrapolated pressure to MPP	N/A
Final gradient at depth	N/A
Z.I. Probes Job Number	N/A
Probe Serial Number	M47

PROBE INFORMATION

Probe Serial Number	M47
Model	Level II
Pressure	
Calibrated Pressure Range	0.0 - 68948.0 kPag (0 - 10000 psi)
Accuracy	0.05% FS
Resolution	0.0015% FS
Temperature	
Calibrated Temperature Range	22.6 - 124.6 Degrees C
Accuracy	0.25% FS
Resolution	0.002% FS
Calibration file used for reports	M47MR22A.CAL

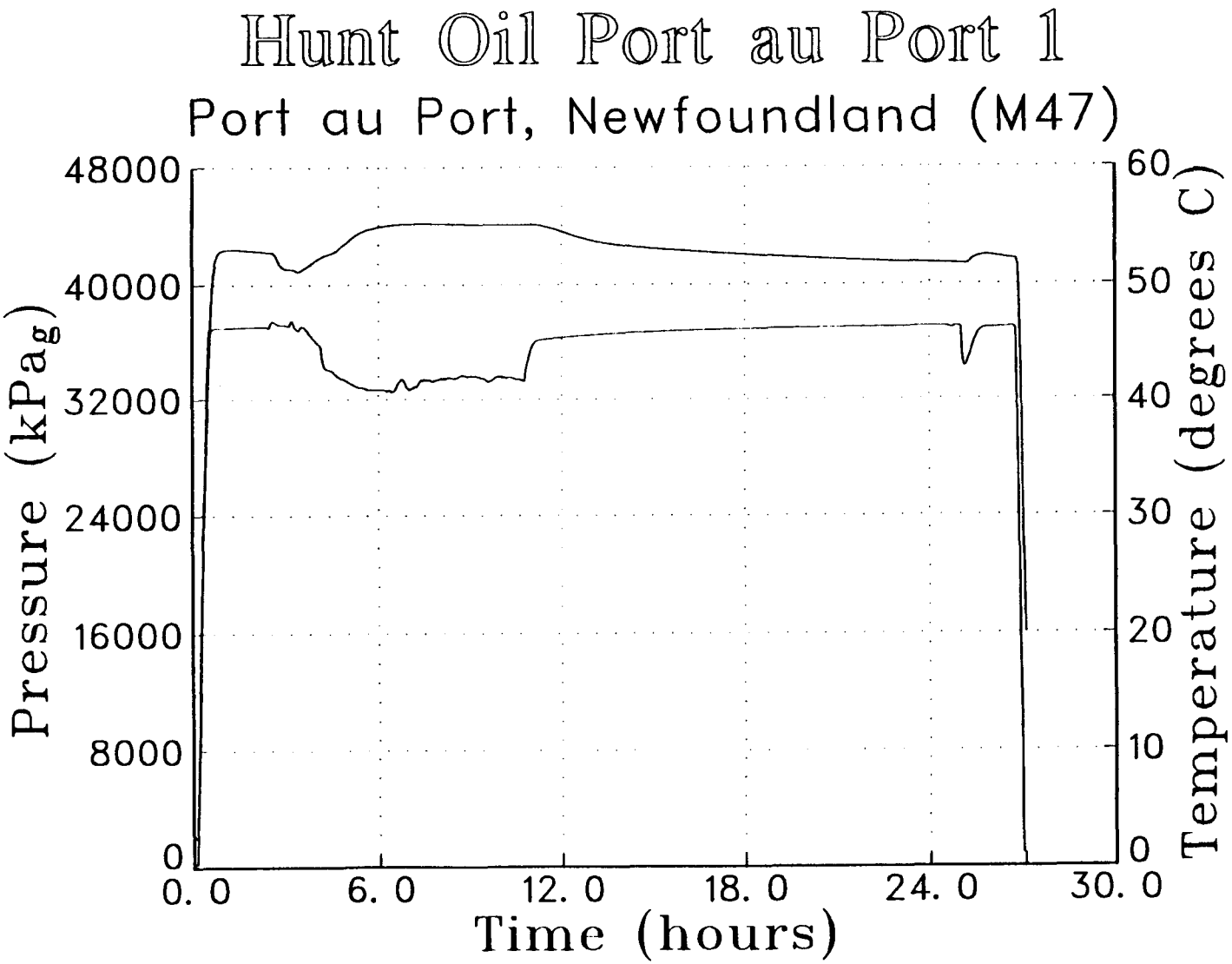
PROGRAMMING DETAILS

Sequence Step	Sampling Mode	Sample Period	Repetitions of step Count
1	Pause	5 seconds	6 (test mode)
2	Delta Pressure on	10 seconds	5 count @ 0.5 psi
3	Normal	1 minute	10080 (7 days)
4	Delta Pressure off		
5	Overrun	1 minute	to end of memory

Program start time	Apr. 09/95 @ 08:33:10
Program end time	Apr. 10/95 @ 12:10:10
Total Samples Taken	3260
Usage for this test	0.4113 Ah
Generic Data File Name	M47AP10A.GEN
Reported by	Dave Royko

COMMENTS

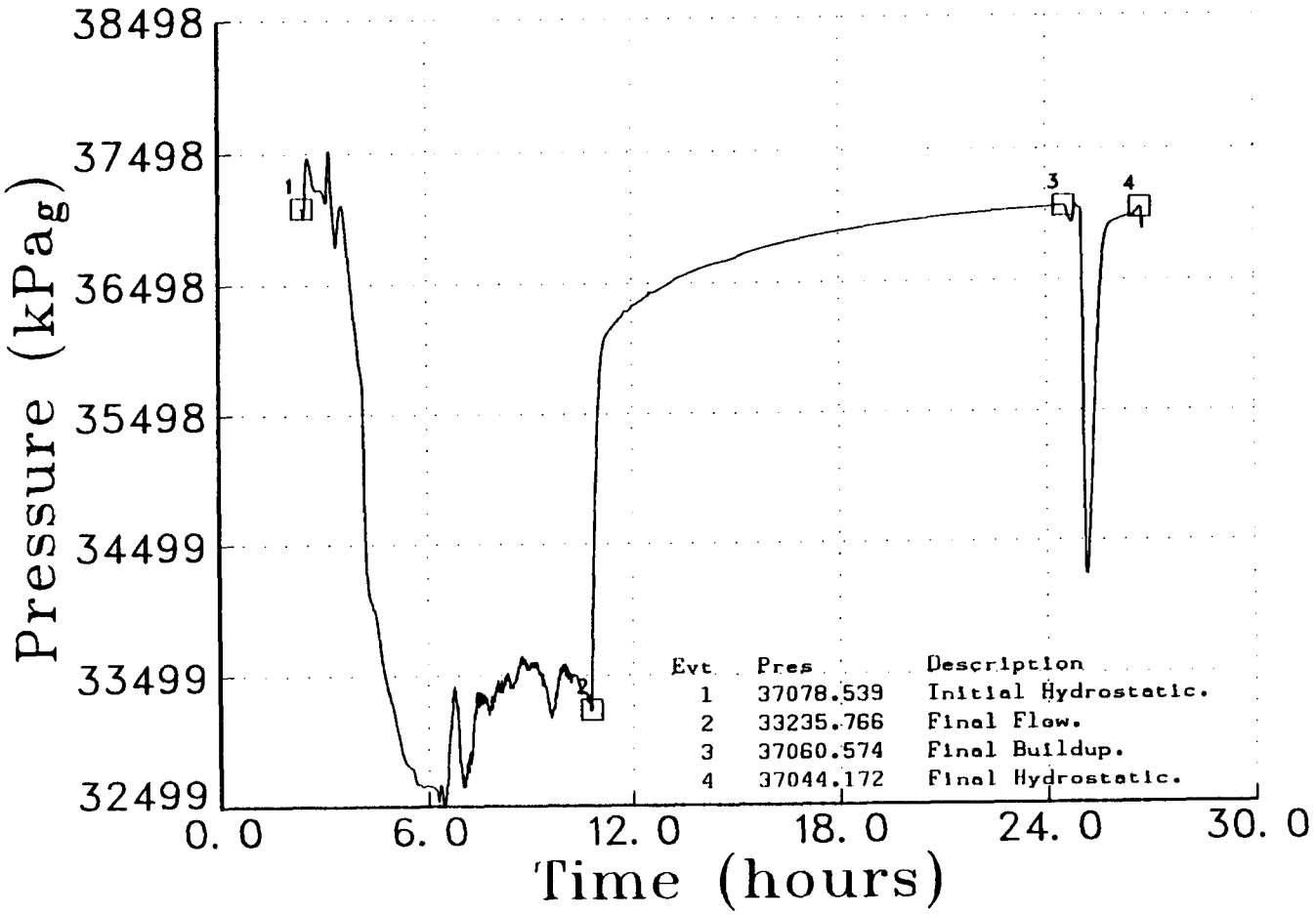
Probes M47 and N12 were used on this test and maintained Level II accuracy throughout. The data from both probes is recommended for reservoir analysis.



ZIPGRAPH 3. 1b6 for Z. I. Probes, Edmonton Apr. 10, 1995 17:17:06

Hunt Oil Port au Port 1

Port au Port, Newfoundland (M47)



ZIPGRAPH 3.1b6 for Z.I. Probes, Edmonton Apr. 10, 1995 17:23:13

Data Listing: Every 8th point of the generic data file.

Probe Number: M47
Company: Hunt Oil Company
Well: Hunt Oil Port au Port #1
Location: Port au Port, Newfoundland
Field: N/A
Test Date(s): April 09 - 10/95

Time	Pressure (kPag)	Temperature (degrees C)	Time	Pressure (kPag)	Temperature (degrees C)
Sun Apr 09, 1995			10:57:10	37078.539	52.7779
08:33:10	0.000	2.7415	10:58:10	37064.043	52.7739
08:39:30	813.579	2.7793	11:00:50	37057.496	52.7680
08:40:50	2646.686	4.4058	11:02:10	37164.258	52.7636
08:42:10	4790.639	6.8936	11:03:30	37290.941	52.7580
08:43:30	7292.008	9.6206	11:04:50	37394.441	52.7535
08:44:50	10069.016	12.4871	11:08:10	37456.441	52.7262
08:46:10	12813.059	15.3019	11:13:20	37369.234	52.4730
08:47:30	15271.661	18.3453	11:17:20	37263.867	52.0956
08:48:50	17646.748	21.4393	11:25:10	37217.188	51.5040
08:50:10	19096.562	24.3059	11:33:00	37204.863	51.3446
08:51:30	20739.281	26.7729	11:37:40	37137.410	51.3191
08:52:50	22641.445	28.8780	11:40:30	37241.473	51.3199
08:54:10	24632.295	30.8630	11:42:00	37360.363	51.3208
08:55:30	25901.678	32.8105	11:43:20	37506.047	51.3270
08:56:50	27459.582	34.6351	**Maximum Recorded Pressure**		
08:58:10	29221.617	36.4024	11:44:00	37520.652	51.3252
08:59:30	31055.295	38.0823	11:46:00	37433.641	51.3128
09:00:50	32952.574	39.7842	11:47:20	37289.488	51.2922
09:02:10	34859.203	41.5150	11:48:40	37166.004	51.2637
09:03:30	36463.707	43.2957	11:50:10	37066.199	51.2214
09:05:00	36909.426	45.3519	11:51:50	36977.418	51.1728
09:06:20	36825.438	47.0687	11:53:50	36889.523	51.1281
09:08:10	36860.855	48.9116	11:56:10	36798.410	51.1163
09:10:50	36897.227	50.6027	11:58:10	36886.723	51.1359
09:17:00	37000.750	52.2421	12:00:10	36976.715	51.1806
09:22:10	36974.039	52.6923	12:02:10	37060.973	51.2350
09:30:10	36984.805	52.9205	12:06:50	37082.766	51.3629
09:38:10	36996.684	52.9828	12:09:50	37001.121	51.4481
09:46:10	37009.348	53.0012	12:11:40	36924.773	51.4924
09:54:10	37022.766	52.9972	12:13:30	36845.648	51.5396
10:02:10	37033.258	52.9818	12:15:20	36763.750	51.5854
10:10:10	37043.137	52.9538	12:17:00	36682.746	51.6270
10:18:10	37052.969	52.9203	12:19:00	36589.496	51.6768
10:26:10	37062.410	52.8944	12:20:30	36520.957	51.7181
10:34:10	37070.848	52.8666	12:22:20	36441.461	51.7726
10:42:10	37079.645	52.8331	12:24:00	36365.875	51.8249
10:50:10	37088.277	52.8053	12:25:40	36282.188	51.8840
1 - Initial Hydrostatic.			12:27:40	36203.613	51.9534

Time	Pressure (kPag)	Temperature (degrees C)	Time	Pressure (kPag)	Temperature (degrees C)
Sun Apr 09, 1995			15:03:20	32537.930	55.0873
12:29:50	36119.664	52.0243	15:06:30	32684.736	55.0996
12:31:50	36047.793	52.0892	15:08:00	32783.977	55.1070
12:33:20	35964.766	52.1323	15:09:20	32880.508	55.1118
12:35:00	35890.750	52.1814	15:10:40	32995.109	55.1170
12:38:20	35813.945	52.2714	15:12:30	33097.023	55.1255
12:40:20	35685.895	52.3211	15:15:10	33216.555	55.1395
12:41:40	35504.000	52.3549	15:17:30	33334.301	55.1453
12:43:00	35093.551	52.3858	15:19:10	33377.598	55.1505
12:44:20	34773.410	52.4130	15:20:50	33365.805	55.1567
12:45:40	34535.125	52.4401	15:22:20	33309.703	55.1567
12:47:00	34369.441	52.4649	15:24:30	33256.242	55.1597
12:48:20	34251.512	52.4850	15:26:50	33079.570	55.1609
12:49:40	34175.043	52.5037	15:28:30	32913.523	55.1608
12:52:20	34100.172	52.5383	15:30:30	32831.160	55.1600
12:57:20	34040.102	52.6100	15:32:30	32716.547	55.1575
13:03:00	33968.199	52.7108	15:33:50	32676.957	55.1593
13:05:40	33897.883	52.7657	15:35:40	32687.904	55.1579
13:08:00	33810.402	52.8097	15:37:30	32692.346	55.1615
13:09:40	33739.461	52.8484	15:41:00	32783.113	55.1654
13:11:50	33660.219	52.9171	15:43:20	32778.234	55.1683
13:14:20	33586.676	53.0234	15:45:10	32855.270	55.1730
13:17:20	33519.227	53.1358	15:46:30	32881.566	55.1750
13:20:40	33452.875	53.2396	15:48:10	32837.902	55.1782
13:23:30	33389.746	53.3252	15:49:30	32882.297	55.1778
13:26:30	33348.840	53.4164	15:51:10	32949.727	55.1797
13:30:00	33283.324	53.5324	15:53:00	33107.484	55.1805
13:33:10	33218.719	53.6505	15:54:40	33161.348	55.1810
13:36:10	33157.527	53.7665	15:56:50	33221.934	55.1836
13:39:20	33091.305	53.8876	15:58:20	33292.918	55.1847
13:43:00	33032.703	54.0161	**Maximum Recorded Temperature**		
13:45:50	32970.719	54.1134	16:00:00	33315.418	55.1879
13:49:20	32902.582	54.2175	16:00:20	33329.418	55.1869
13:53:30	32841.707	54.3302	16:02:10	33334.062	55.1854
14:01:10	32797.852	54.4939	16:03:50	33344.016	55.1840
14:07:40	32753.355	54.6082	16:05:40	33333.164	55.1816
14:11:10	32684.750	54.6608	16:07:50	33353.273	55.1792
14:19:10	32659.027	54.7550	16:09:50	33324.031	55.1764
14:27:10	32649.498	54.8401	16:12:10	33329.887	55.1744
14:35:10	32648.734	54.9094	16:14:20	33283.676	55.1734
14:43:10	32639.090	54.9670	16:16:30	33294.074	55.1704
14:49:00	32587.365	55.0099	16:19:10	33259.160	55.1680
14:51:50	32568.967	55.0272	16:22:20	33264.582	55.1681
14:53:40	32664.514	55.0386	16:24:10	33291.344	55.1691
14:55:20	32653.434	55.0506	16:25:40	33247.812	55.1663
14:57:30	32591.342	55.0603	16:27:30	33329.289	55.1671
14:59:30	32519.125	55.0680	16:29:30	33297.277	55.1688
15:01:10	32500.945	55.0744	16:31:40	33352.832	55.1674

Time	Pressure (kPag)	Temperature (degrees C)	Time	Pressure (kPag)	Temperature (degrees C)
Sun Apr 09, 1995			18:33:20	33568.582	55.0597
16:34:00	33391.625	55.1670	18:35:10	33556.590	55.0607
16:35:50	33452.387	55.1683	18:36:50	33564.578	55.0616
16:37:50	33405.297	55.1665	18:38:40	33547.020	55.0610
16:39:50	33393.145	55.1659	18:41:50	33492.883	55.0591
16:41:50	33388.961	55.1617	18:44:40	33438.152	55.0607
16:43:20	33382.949	55.1602	18:47:50	33486.945	55.0608
16:45:40	33403.074	55.1552	18:53:10	33496.211	55.0565
16:48:00	33439.582	55.1520	18:58:10	33432.656	55.0611
16:49:40	33460.199	55.1509	19:01:10	33381.789	55.0609
16:51:40	33480.938	55.1476	19:07:10	33366.680	55.0523
16:54:20	33481.918	55.1446	19:13:20	33321.223	55.0528
16:56:50	33442.711	55.1407	19:15:20	33307.285	55.0584
17:01:10	33402.270	55.1280	19:17:00	33274.863	55.0564
17:05:10	33440.418	55.1233	19:18:40	33252.602	55.0557
17:08:50	33461.117	55.1213	2 - Final Flow.		
17:11:00	33518.883	55.1187	19:20:20	33235.766	55.0545
17:14:40	33596.754	55.1170	19:20:40	33312.051	55.0534
17:16:40	33619.855	55.1146	19:22:00	33755.309	55.0540
17:18:50	33581.500	55.1147	19:23:20	34077.539	55.0551
17:21:20	33618.965	55.1105	19:24:40	34311.613	55.0584
17:23:20	33600.062	55.1062	19:26:00	34538.836	55.0629
17:25:40	33566.055	55.1045	19:27:20	34748.398	55.0662
17:27:50	33560.723	55.1020	19:28:40	34946.879	55.0700
17:30:50	33541.109	55.0974	19:30:00	35129.266	55.0719
17:33:20	33576.871	55.0957	19:31:20	35294.859	55.0779
17:36:50	33589.922	55.0933	19:32:40	35443.855	55.0793
17:39:20	33559.758	55.0894	19:34:00	35573.156	55.0791
17:42:20	33574.523	55.0862	19:35:20	35687.750	55.0801
17:45:00	33569.227	55.0843	19:36:40	35784.305	55.0811
17:49:10	33500.477	55.0744	19:38:00	35863.926	55.0804
17:52:00	33495.266	55.0755	19:39:20	35931.902	55.0769
17:54:20	33440.492	55.0733	19:41:50	36021.484	55.0694
17:56:10	33456.211	55.0725	19:45:40	36089.137	55.0495
17:58:30	33421.047	55.0688	19:54:10	36143.203	54.9777
18:03:20	33325.664	55.0641	20:02:10	36184.703	54.8883
18:05:40	33242.195	55.0620	20:10:10	36221.883	54.8034
18:08:20	33196.234	55.0585	20:18:10	36267.270	54.7141
18:10:40	33190.871	55.0583	20:26:10	36286.598	54.6045
18:13:10	33260.488	55.0540	20:33:40	36321.172	54.4952
18:16:20	33292.699	55.0556	20:41:10	36339.660	54.3741
18:18:30	33334.016	55.0561	20:49:10	36362.305	54.2552
18:20:40	33398.219	55.0551	20:57:10	36387.797	54.1412
18:23:00	33463.871	55.0574	21:05:10	36432.441	54.0295
18:24:50	33540.398	55.0574	21:12:10	36428.602	53.9513
18:27:00	33565.703	55.0617	21:20:10	36444.395	53.8576
18:29:00	33565.797	55.0597	21:28:10	36466.805	53.7685
18:30:50	33553.406	55.0599	21:36:10	36486.387	53.6911

Time	Pressure (kPag)	Temperature (degrees C)
Sun Apr 09, 1995		
21:44:10	36507.227	53.6216
21:52:10	36531.852	53.5595
22:00:10	36547.340	53.4990
22:08:10	36560.730	53.4408
22:16:10	36576.785	53.3972
22:24:10	36589.879	53.3540
22:32:10	36604.238	53.3095
22:40:10	36616.574	53.2688
22:48:10	36629.273	53.2246
22:56:10	36641.555	53.1842
23:04:10	36649.676	53.1495
23:12:10	36658.430	53.1208
23:20:10	36665.438	53.0875
23:28:10	36677.930	53.0552
23:36:10	36690.578	53.0257
23:44:10	36704.352	52.9990
23:52:10	36719.277	52.9740
Mon Apr 10, 1995		
00:00:10	36731.816	52.9521
00:08:10	36741.633	52.9292
00:16:10	36751.711	52.9085
00:24:10	36761.566	52.8853
00:32:10	36770.832	52.8624
00:40:10	36779.246	52.8366
00:48:10	36788.016	52.8143
00:56:10	36796.520	52.7880
01:04:10	36805.285	52.7633
01:12:10	36812.961	52.7395
01:20:10	36819.809	52.7131
01:28:10	36827.348	52.6902
01:36:10	36834.980	52.6666
01:44:10	36842.254	52.6477
01:52:10	36848.891	52.6214
02:00:10	36855.824	52.6011
02:08:10	36862.520	52.5834
02:16:10	36869.203	52.5586
02:24:10	36875.070	52.5359
02:32:10	36881.715	52.5166
02:40:10	36886.840	52.4945
02:48:10	36891.961	52.4770
02:56:10	36896.570	52.4547
03:04:10	36902.250	52.4325
03:12:10	36908.336	52.4118
03:20:10	36913.090	52.3905
03:28:10	36918.559	52.3732
03:36:10	36923.449	52.3508
03:44:10	36928.324	52.3288
03:52:10	36933.094	52.3099
04:00:10	36938.309	52.2926
04:08:10	36943.059	52.2775
04:16:10	36947.527	52.2582
04:24:10	36952.395	52.2397
04:32:10	36956.723	52.2221
04:40:10	36960.859	52.2039
04:48:10	36964.285	52.1890
04:56:10	36968.207	52.1707
05:04:10	36971.969	52.1523
05:12:10	36976.168	52.1365
05:20:10	36980.293	52.1187
05:28:10	36983.848	52.1034
05:36:10	36987.902	52.0881
05:44:10	36991.824	52.0743
05:52:10	36995.273	52.0580
06:00:10	36998.176	52.0413
06:08:10	37001.645	52.0257
06:16:10	37005.410	52.0115
06:24:10	37008.574	51.9969
06:32:10	37011.578	51.9841
06:40:10	37014.438	51.9672
06:48:10	37017.742	51.9539
06:56:10	37020.965	51.9373
07:04:10	37023.523	51.9212
07:12:10	37026.520	51.9055
07:20:10	37029.375	51.8926
07:28:10	37031.496	51.8813
07:36:10	37033.930	51.8698
07:44:10	37036.508	51.8573
07:52:10	37039.082	51.8428
08:00:10	37041.230	51.8301
08:08:10	37043.621	51.8184
08:16:10	37046.043	51.8045
08:24:10	37048.746	51.7933
08:32:10	37051.277	51.7822
08:40:10	37053.848	51.7663
08:48:10	37056.496	51.7543
08:56:10	37058.742	51.7430
3 - Final Buildup.		
09:04:10	37060.574	51.7296
09:10:30	37008.066	51.7218
09:15:20	36946.113	51.7191
09:20:50	37004.434	51.7172
09:25:10	37063.715	51.7123
09:33:10	37039.289	51.6989
09:35:20	36531.387	51.6998
09:36:40	35509.398	51.6958

Time	Pressure (kPag)	Temperature (degrees C)	Time	Pressure (kPag)	Temperature (degrees C)
Mon Apr 10, 1995			10:14:40	36821.711	52.3760
09:38:00	34831.949	51.6895	10:18:50	36891.035	52.4025
09:39:20	34480.062	51.6756	10:27:10	36935.434	52.4068
09:40:40	34272.250	51.6615	10:35:10	36950.094	52.3734
09:44:40	34355.414	51.6686	10:43:10	36961.914	52.3188
09:46:00	34481.203	51.6913	10:51:10	36971.836	52.2624
09:47:20	34602.777	51.7246	10:59:10	36981.121	52.2092
09:48:40	34723.543	51.7635	11:06:50	37005.160	52.1674
09:50:00	34841.996	51.8098	**4 - Final Hydrostatic.**		
09:51:20	34971.312	51.8606	11:15:10	37044.172	52.1217
09:52:40	35136.762	51.9100	11:19:30	36880.121	52.1020
09:54:00	35283.543	51.9631	11:21:10	36585.801	52.0836
09:55:20	35447.035	52.0143	11:22:30	34327.246	51.9630
09:56:40	35605.219	52.0605	11:23:50	31744.088	51.4217
09:58:00	35751.855	52.0996	11:25:10	28879.000	50.3542
09:59:20	35889.578	52.1391	11:26:30	25846.994	48.8303
10:00:40	36017.551	52.1725	11:27:50	22107.018	46.8983
10:02:00	36136.953	52.2004	11:29:10	18209.447	44.5051
10:03:20	36248.246	52.2282	11:30:30	14120.222	41.7508
10:04:40	36348.871	52.2523	11:31:50	9926.517	38.7956
10:06:00	36440.562	52.2747	11:33:10	5574.140	35.1374
10:07:20	36519.594	52.2935	11:34:30	1056.279	31.5915
10:08:40	36594.383	52.3129	11:38:20	810.498	21.9619
10:10:00	36656.785	52.3272	11:39:30	40.669	20.0002
10:12:00	36738.785	52.3511			

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Z.I. Probes Pressure Test Report

COMPANY INFORMATION

Company Name	Hunt Oil Company
Representative	
Phone	(403) 269-3400
Address	1450, 801 - 6th Avenue S.W. Calgary, AB T2P 3W2
Service Company	Solid Resources Ltd.

WELL INFORMATION

Well Name	Hunt Oil Port au Port #1
Well Location	Port au Port, Newfoundland
Field and pool	N/A
Status (oil, gas, water, injection)	Gas
Perforated Intervals	N/A
Mid point of Perforated Intervals (MPP)	N/A
Drilling Rig Number	
Elevations	
Kelly Bushing (KB)	N/A
Casing Flange (CF)	N/A
KB-CF	N/A
Ground Level (GL)	N/A
Plug back total depth	N/A
Total depth	N/A
Production Casing	N/A
Production Tubing	N/A

TEST INFORMATION

Test number / Type of test	Flow and Buildup
Date(s) of test	April 09 - 10/95
Dead-weight gauge tubing pressure	N/A
Dead-weight gauge casing pressure	N/A
Shut-in date (duration)	Apr. 09/95 @ 19:20
Date/time on bottom	Apr. 09/95 @ 09:05
Date/time off bottom	Apr. 10/95 @ 11:21
Run depth at probe pressure port	3355.89 mKB

PRESSURE TEST RESULTS

Maximum recorded probe pressure	37539.01 kPag
Maximum recorded probe temperature	55.65 Degrees C
Final buildup pressure	37075.61 kPag
Gradient Survey Information	Gradient not run.
Extrapolated pressure to MPP	N/A
Final gradient at depth	N/A
Z.I. Probes Job Number	N/A
Probe Serial Number	N12

PROBE INFORMATION

Probe Serial Number	N12
Model	Level II
Pressure	
Calibrated Pressure Range	0.0 - 68948.0 kPag (0 - 10000 psi)
Accuracy	0.05% FS
Resolution	0.0015% FS
Temperature	
Calibrated Temperature Range	23.4 - 124.7 Degrees C
Accuracy	0.25% FS
Resolution	0.002% FS
Calibration file used for reports	N12MR23A.CAL

PROGRAMMING DETAILS

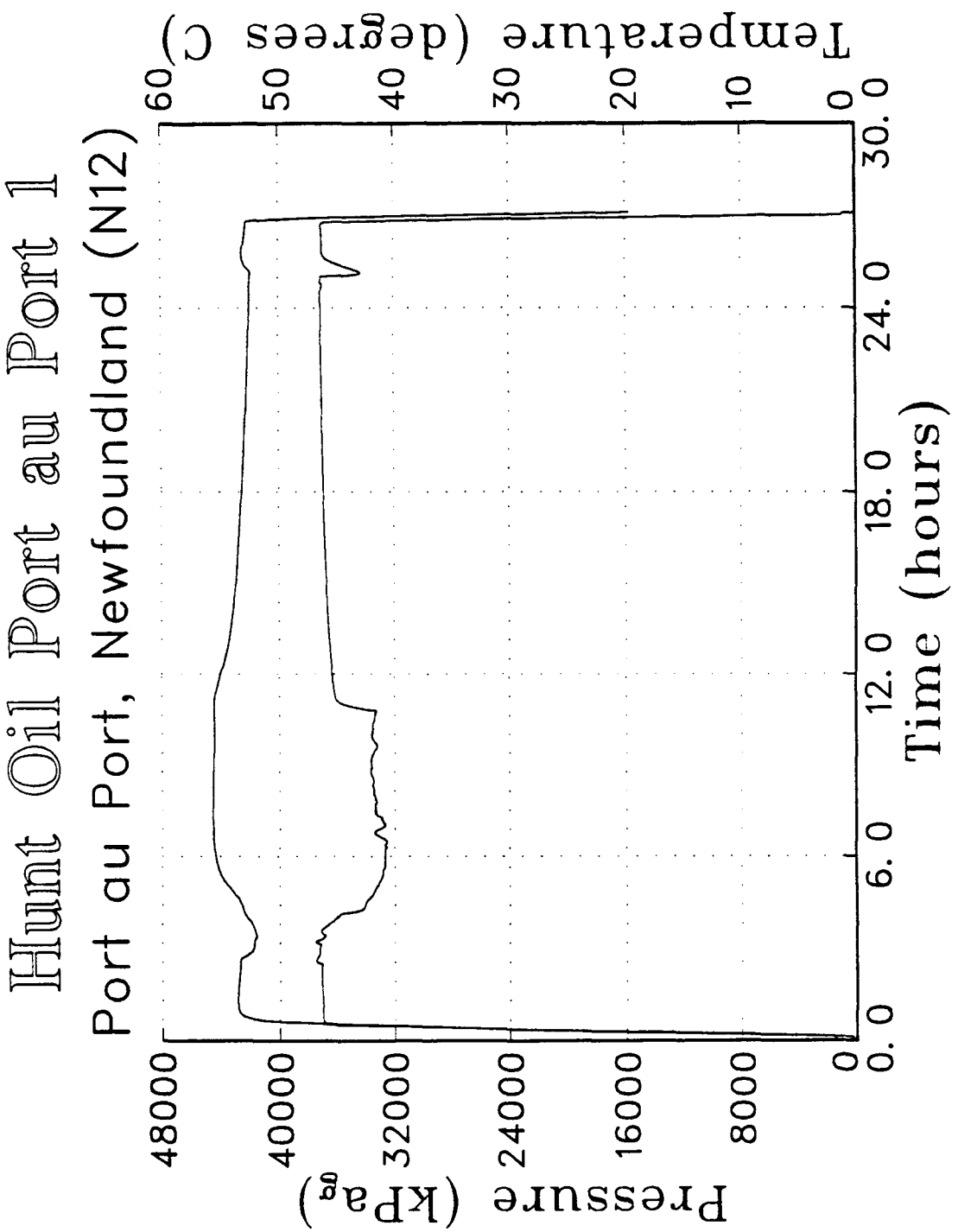
Sequence Step	Sampling Mode	Sample Period	Repetitions of step Count
1	Pause	5 seconds	6 (test mode)
2	Delta Pressure on	10 seconds	5 count @ 0.5 psi
3	Normal	1 minute	10080 (7 days)
4	Delta Pressure off		
5	Overrun	1 minute	to end of memory

Program start time	Apr. 09/95 @ 08:33:01
Program end time	Apr. 10/95 @ 12:07:01
Total Samples Taken	3262
Usage for this test	0.2419 Ah
Generic Data File Name	N12AP10A.GEN
Reported by	Dave Royko

COMMENTS

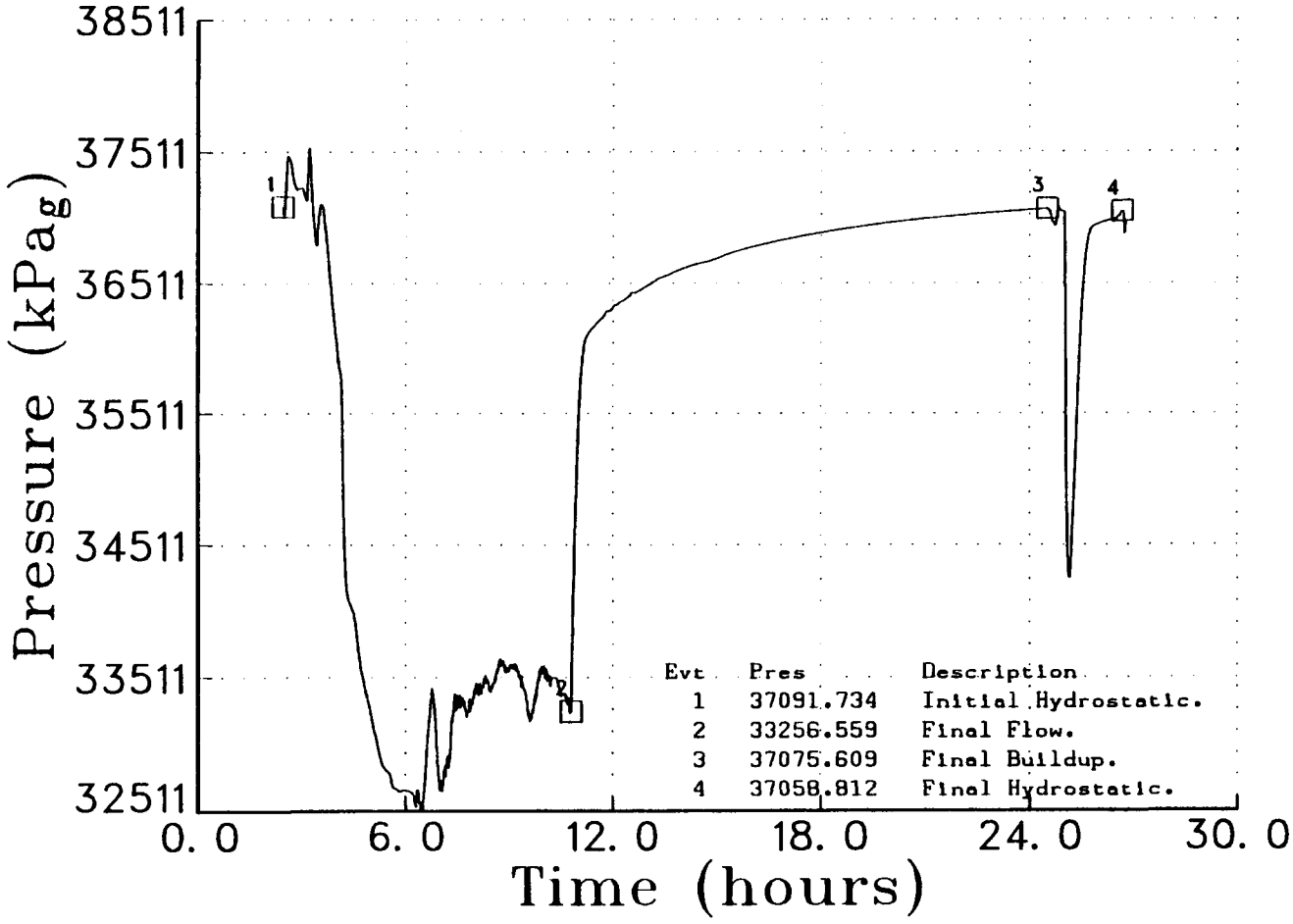
Probes M47 and N12 were used on this test and maintained Level II accuracy throughout. The data from both probes is recommended for reservoir analysis.

ZIPGRAPH 3. 1b6 for Z. I. Probes, Edmonton Apr. 10, 1995 17:24:57



Hunt Oil Port au Port 1

Port au Port, Newfoundland (N12)



ZIPGRAPH 3. 1b6 for Z. I. Probes, Edmonton Apr. 10, 1995 17:28:15

Data Listing: Every 8th point of the generic data file.

Probe Number: N12
Company: Hunt Oil Company
Well: Hunt Oil Port au Port #1
Location: Port au Port, Newfoundland
Field: N/A
Test Date(s): April 09 - 10/95

Time	Pressure (kPag)	Temperature (degrees C)	Time	Pressure (kPag)	Temperature (degrees C)
Sun Apr 09, 1995			10:58:01	37091.734	53.3500
08:33:01	16.828	1.8940	10:59:01	37031.125	53.3476
08:39:21	700.800	2.2053	11:02:01	37166.805	53.3419
08:40:41	2474.833	3.6714	11:03:21	37292.641	53.3401
08:42:01	4590.575	6.0311	11:04:41	37400.539	53.3393
08:43:21	7049.463	8.7062	11:07:01	37478.188	53.3398
08:44:41	9807.337	11.6620	11:12:51	37394.840	53.1551
08:46:01	12602.444	14.6099	11:16:31	37301.645	52.8720
08:47:21	15057.442	17.6883	11:24:01	37231.820	52.3814
08:48:41	17436.639	20.8163	11:32:01	37233.219	52.1946
08:50:01	19114.078	23.8544	11:37:11	37158.438	52.1572
08:51:21	20594.342	26.5506	11:40:21	37245.625	52.1485
08:52:41	22479.828	28.8902	11:41:41	37356.773	52.1478
08:54:01	24461.539	31.0955	11:43:01	37494.125	52.1467
08:55:21	25796.961	33.2367	**Maximum Recorded Pressure**		
08:56:41	27322.293	35.2414	11:44:11	37539.012	52.1435
08:58:01	29071.057	37.1463	11:45:21	37486.742	52.1367
08:59:21	30908.674	38.9391	11:46:51	37352.730	52.1219
09:00:41	32796.926	40.6747	11:48:11	37218.926	52.1031
09:02:01	34700.113	42.4289	11:49:31	37116.629	52.0706
09:03:21	36376.133	44.1842	11:51:11	37021.715	52.0138
09:04:41	36906.758	45.9648	11:53:01	36939.547	51.9609
09:06:01	36954.062	47.6639	11:55:21	36845.629	51.9376
09:07:51	36851.074	49.5112	11:57:41	36873.738	51.9585
09:10:41	36919.500	51.2799	11:59:31	36964.402	51.9871
09:17:01	37017.469	52.8258	12:01:51	37058.414	52.0235
09:23:01	36990.293	53.2651	12:07:01	37097.555	52.0703
09:31:01	37000.559	53.4729	12:09:51	37017.938	52.1138
09:39:01	37012.578	53.5487	12:12:01	36927.172	52.1525
09:47:01	37024.652	53.5768	12:13:51	36847.230	52.1885
09:55:01	37037.656	53.5758	12:15:11	36784.645	52.2157
10:03:01	37049.258	53.5589	12:16:51	36704.605	52.2495
10:11:01	37058.547	53.5320	12:18:21	36634.285	52.2830
10:19:01	37068.539	53.5012	12:20:01	36559.320	52.3257
10:27:01	37077.195	53.4677	12:21:41	36484.754	52.3797
10:35:01	37085.891	53.4375	12:23:21	36409.680	52.4437
10:43:01	37094.305	53.4079	12:24:51	36338.285	52.5073
10:51:01	37084.582	53.3762	12:26:11	36276.496	52.5646
1 - Initial Hydrostatic.			12:28:11	36197.070	52.6475

Time	Pressure (kPag)	Temperature (degrees C)	Time	Pressure (kPag)	Temperature (degrees C)
Sun Apr 09, 1995			15:03:41	32584.908	55.5724
12:30:21	36115.262	52.7272	15:06:11	32675.730	55.5829
12:32:11	36044.637	52.7849	15:07:41	32767.428	55.5879
12:33:51	35957.141	52.8308	15:09:01	32866.723	55.5925
12:35:21	35907.695	52.8671	15:10:21	32989.590	55.5984
12:37:51	35839.387	52.9296	15:11:51	33076.848	55.6031
12:40:11	35718.734	52.9848	15:14:01	33191.422	55.6120
12:41:31	35540.262	53.0133	15:16:21	33305.105	55.6190
12:42:51	35144.824	53.0364	15:18:21	33396.266	55.6230
12:44:11	34812.934	53.0571	15:19:51	33393.082	55.6272
12:45:31	34572.949	53.0756	15:21:21	33349.211	55.6299
12:46:51	34401.352	53.0909	15:23:11	33282.672	55.6297
12:48:11	34277.855	53.1046	15:24:51	33268.348	55.6320
12:49:41	34190.418	53.1189	15:26:41	33114.672	55.6324
12:52:31	34113.949	53.1466	15:28:21	32951.516	55.6316
12:57:41	34050.941	53.2304	15:30:31	32838.078	55.6310
13:02:41	33989.211	53.3540	15:32:21	32741.098	55.6310
13:05:41	33911.867	53.4014	15:33:51	32695.143	55.6310
13:08:01	33824.051	53.4368	15:35:51	32677.195	55.6309
13:09:41	33753.344	53.4771	15:38:11	32698.176	55.6340
13:11:51	33673.020	53.5782	15:40:01	32796.062	55.6363
13:14:21	33599.762	53.6975	15:42:41	32836.223	55.6416
13:17:01	33538.711	53.7871	15:44:01	32854.023	55.6441
13:20:21	33472.352	53.8854	15:45:51	32927.477	55.6475
13:23:11	33410.043	53.9707	15:47:21	32901.770	55.6490
13:25:41	33364.109	54.0508	15:49:01	32883.410	55.6496
13:29:11	33316.809	54.1671	15:50:31	32900.102	55.6495
13:32:11	33252.582	54.2716	15:52:01	33093.031	55.6505
13:35:41	33184.352	54.3967	15:54:21	33191.461	55.6498
13:38:31	33119.051	54.4950	15:57:11	33293.895	55.6522
13:42:11	33060.879	54.6146	15:58:51	33344.738	55.6519
13:45:01	33000.512	54.7004	**Maximum Recorded Temperature**		
13:48:11	32936.949	54.7875	15:59:11	33389.832	55.6530
13:52:01	32875.520	54.8813	16:00:31	33359.367	55.6519
13:59:01	32819.223	55.0180	16:02:11	33350.668	55.6511
14:06:51	32780.652	55.1422	16:04:01	33325.633	55.6492
14:10:41	32706.367	55.1950	16:05:41	33336.719	55.6469
14:18:01	32673.395	55.2716	16:08:11	33381.090	55.6447
14:26:01	32662.305	55.3463	16:10:11	33313.355	55.6428
14:34:01	32665.312	55.4082	16:13:01	33351.023	55.6392
14:42:01	32653.289	55.4618	16:15:11	33344.973	55.6381
14:48:21	32601.055	55.5005	16:17:21	33312.570	55.6371
14:50:51	32548.408	55.5148	16:19:31	33261.566	55.6366
14:53:01	32637.947	55.5252	16:24:01	33285.062	55.6347
14:55:01	32638.170	55.5346	16:25:31	33271.434	55.6361
14:56:51	32623.391	55.5448	16:27:31	33344.625	55.6370
14:59:51	32558.611	55.5581	16:30:01	33347.945	55.6367
15:02:21	32570.850	55.5681	16:32:31	33376.551	55.6363

Time	Pressure (kPag)	Temperature (degrees C)	Time	Pressure (kPag)	Temperature (degrees C)
Sun Apr 09, 1995			18:29:01	33583.234	55.5344
16:34:21	33398.219	55.6362	18:31:21	33572.230	55.5353
16:36:01	33433.016	55.6355	18:33:11	33566.863	55.5348
16:38:01	33401.852	55.6345	18:34:51	33582.047	55.5349
16:40:31	33414.727	55.6303	18:36:31	33568.672	55.5355
16:42:21	33469.340	55.6268	18:38:21	33547.832	55.5350
16:44:11	33387.266	55.6240	18:41:21	33519.285	55.5355
16:46:31	33433.449	55.6217	18:44:21	33495.934	55.5356
16:48:41	33471.324	55.6181	18:47:11	33498.855	55.5364
16:50:51	33464.148	55.6153	18:56:01	33493.383	55.5316
16:53:11	33488.082	55.6118	19:00:01	33438.621	55.5319
16:55:31	33475.785	55.6090	19:03:11	33369.566	55.5346
16:57:51	33456.934	55.6054	19:10:41	33361.574	55.5300
17:02:11	33421.023	55.5982	19:13:31	33315.199	55.5324
17:04:11	33460.496	55.5951	19:15:31	33335.164	55.5326
17:09:11	33488.484	55.5880	19:17:21	33303.395	55.5318
17:11:51	33544.988	55.5879	19:19:21	33278.141	55.5305
17:15:01	33627.551	55.5850	2 - Final Flow.		
17:16:41	33624.000	55.5844	19:20:11	33256.559	55.5314
17:18:41	33602.270	55.5817	19:21:31	33629.012	55.5299
17:20:31	33617.062	55.5809	19:22:51	33996.395	55.5296
17:22:51	33640.859	55.5775	19:24:11	34241.617	55.5309
17:25:11	33597.562	55.5749	19:25:31	34476.645	55.5329
17:27:21	33545.301	55.5720	19:26:51	34692.695	55.5359
17:30:01	33577.758	55.5687	19:28:11	34893.340	55.5395
17:32:41	33566.578	55.5657	19:29:31	35081.473	55.5419
17:35:01	33592.207	55.5641	19:30:51	35253.703	55.5440
17:38:31	33615.000	55.5613	19:32:11	35408.340	55.5451
17:40:51	33582.852	55.5590	19:33:31	35544.273	55.5456
17:43:11	33608.035	55.5573	19:34:51	35664.344	55.5449
17:45:01	33584.918	55.5545	19:36:11	35765.359	55.5428
17:48:51	33546.613	55.5504	19:37:31	35849.742	55.5394
17:51:01	33518.477	55.5480	19:38:51	35922.016	55.5357
17:54:01	33508.098	55.5456	19:40:51	36001.938	55.5264
17:56:11	33468.660	55.5443	19:43:41	36073.250	55.5103
17:59:11	33417.270	55.5421	19:50:01	36130.664	55.4606
18:02:31	33354.613	55.5389	19:58:01	36173.180	55.3634
18:04:51	33289.762	55.5372	20:06:01	36214.605	55.2685
18:07:11	33232.066	55.5352	20:14:01	36248.156	55.1796
18:09:51	33196.535	55.5323	20:21:01	36295.746	55.1114
18:12:01	33221.191	55.5325	20:29:01	36304.020	55.0190
18:14:31	33242.477	55.5303	20:37:01	36341.301	54.9188
18:17:01	33338.270	55.5311	20:45:01	36364.832	54.8138
18:18:31	33342.418	55.5312	20:53:01	36383.949	54.7075
18:21:11	33433.023	55.5321	21:01:01	36412.160	54.6110
18:23:21	33496.207	55.5337	21:09:01	36439.012	54.5281
18:25:51	33555.605	55.5344	21:17:01	36448.453	54.4430
18:27:11	33569.688	55.5334	21:25:01	36467.410	54.3590

Time	Pressure (kPag)	Temperature (degrees C)	Time	Pressure (kPag)	Temperature (degrees C)
Sun Apr 09, 1995			03:41:01	36940.992	52.9715
21:33:01	36489.059	54.2894	03:49:01	36946.137	52.9547
21:41:01	36511.113	54.2292	03:57:01	36950.523	52.9361
21:49:01	36529.605	54.1704	04:05:01	36955.645	52.9187
21:57:01	36552.332	54.1169	04:13:01	36960.250	52.9016
22:05:01	36565.828	54.0713	04:21:01	36964.562	52.8852
22:13:01	36581.637	54.0232	04:29:01	36969.059	52.8669
22:21:01	36597.719	53.9771	04:37:01	36973.254	52.8492
22:29:01	36612.215	53.9307	04:45:01	36977.191	52.8318
22:37:01	36624.133	53.8874	04:53:01	36981.320	52.8169
22:45:01	36636.773	53.8470	05:01:01	36985.812	52.8009
22:53:01	36648.414	53.8144	05:09:01	36990.082	52.7859
23:01:01	36658.992	53.7787	05:17:01	36993.297	52.7704
23:09:01	36667.340	53.7464	05:25:01	36997.453	52.7547
23:17:01	36674.449	53.7127	05:33:01	37000.543	52.7379
23:25:01	36685.516	53.6781	05:41:01	37004.590	52.7225
23:33:01	36697.961	53.6470	05:49:01	37008.188	52.7082
23:41:01	36711.348	53.6223	05:57:01	37012.020	52.6929
23:49:01	36725.398	53.5979	06:05:01	37014.520	52.6788
23:57:01	36738.371	53.5781	06:13:01	37018.383	52.6649
Mon Apr 10, 1995			06:21:01	37020.953	52.6497
00:05:01	36750.289	53.5575	06:29:01	37024.770	52.6356
00:13:01	36760.449	53.5341	06:37:01	37027.699	52.6220
00:21:01	36770.172	53.5090	06:45:01	37031.012	52.6092
00:29:01	36779.844	53.4851	06:53:01	37033.863	52.5954
00:37:01	36788.891	53.4608	07:01:01	37036.867	52.5854
00:45:01	36797.238	53.4383	07:09:01	37040.082	52.5722
00:53:01	36805.633	53.4156	07:17:01	37042.910	52.5599
01:01:01	36813.785	53.3926	07:25:01	37045.676	52.5480
01:09:01	36821.828	53.3675	07:33:01	37048.590	52.5352
01:17:01	36829.383	53.3446	07:41:01	37050.891	52.5233
01:25:01	36837.035	53.3211	07:49:01	37053.453	52.5134
01:33:01	36844.637	53.2986	07:57:01	37056.125	52.5000
01:41:01	36851.586	53.2763	08:05:01	37058.031	52.4887
01:49:01	36858.406	53.2536	08:13:01	37061.137	52.4782
01:57:01	36865.773	53.2310	08:21:01	37063.945	52.4658
02:05:01	36872.457	53.2098	08:29:01	37065.586	52.4555
02:13:01	36878.457	53.1885	08:37:01	37068.133	52.4457
02:21:01	36884.961	53.1696	08:45:01	37070.426	52.4377
02:29:01	36891.016	53.1468	08:53:01	37072.992	52.4285
02:37:01	36897.316	53.1255	09:01:01	37074.895	52.4201
02:45:01	36903.570	53.1042	**3 - Final Buildup.**		
02:53:01	36909.410	53.0854	09:04:01	37075.609	52.4155
03:01:01	36914.773	53.0671	09:09:01	37050.684	52.4107
03:09:01	36920.051	53.0459	09:12:51	36984.496	52.4114
03:17:01	36925.723	53.0272	09:19:51	36989.426	52.4061
03:25:01	36930.684	53.0078	09:22:41	37072.410	52.4052
03:33:01	36936.176	52.9891	09:30:01	37057.211	52.3889

Time	Pressure (kPag)	Temperature (degrees C)	Time	Pressure (kPag)	Temperature (degrees C)
Mon Apr 10, 1995			10:12:11	36762.160	53.0429
09:35:31	36331.559	52.3746	10:14:51	36841.684	53.0590
09:36:51	35367.613	52.3689	10:19:11	36911.375	53.0704
09:38:11	34771.219	52.3547	10:27:01	36950.055	53.0455
09:39:31	34446.188	52.3404	10:35:01	36963.922	52.9844
09:40:51	34292.129	52.3348	10:43:01	36976.301	52.9207
09:44:31	34367.816	52.3917	10:51:01	36986.902	52.8670
09:45:51	34494.703	52.4326	10:59:01	36996.395	52.8242
09:47:11	34610.902	52.4779	11:06:31	37018.973	52.7898
09:48:31	34732.859	52.5294	**4 - Final Hydrostatic.**		
09:49:51	34851.547	52.5830	11:15:01	37058.812	52.7500
09:51:11	34977.270	52.6397	11:19:11	36922.590	52.7299
09:52:31	35144.406	52.6944	11:21:01	36672.625	52.7225
09:53:51	35292.062	52.7462	11:22:21	34466.633	52.6327
09:55:11	35453.609	52.7904	11:23:41	31882.867	52.1605
09:56:31	35611.797	52.8278	11:25:01	29037.309	51.2241
09:57:51	35759.414	52.8590	11:26:21	26007.193	49.8295
09:59:11	35897.180	52.8863	11:27:41	22308.639	48.0425
10:00:31	36025.801	52.9087	11:29:01	18437.197	45.7964
10:01:51	36145.609	52.9292	11:30:21	14374.931	43.1343
10:03:11	36256.859	52.9480	11:31:41	10183.251	40.0495
10:04:31	36358.449	52.9665	11:33:01	5839.086	36.5770
10:05:51	36450.195	52.9833	11:34:21	1320.856	32.7214
10:07:11	36530.168	52.9975	11:38:11	826.093	21.9893
10:08:31	36605.109	53.0108	11:39:31	30.518	19.6622
10:10:01	36675.223	53.0259			

DST 3

ISO 9002
Reg. Firm 93-05

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Z.I. Probes Pressure Test Report

COMPANY INFORMATION

Company Name	Hunt Oil Company
Representative	
Phone	(403) 269-3400
Address	1450, 801 - 6th Avenue S.W. Calgary, AB T2P 3W2
Service Company	Solid Wireline Services

WELL INFORMATION

Well Name	Hunt Oil - Port au Port 1
Well Location	Port au Port, NFLD
Field and pool	N/A
Status (oil, gas, water, injection)	Gas
Perforated Intervals	N/A
Mid point of Perforated Intervals (MPP)	N/A
Drilling Rig Number	
Elevations	
Kelly Bushing (KB)	N/A
Casing Flange (CF)	N/A
KB-CF	N/A
Ground Level (GL)	N/A
Plug back total depth	N/A
Total depth	N/A
Production Casing	N/A
Production Tubing	N/A

TEST INFORMATION

Test number / Type of test	Flow and Buildup
Date(s) of test	April 15 - 16/95
Dead-weight gauge tubing pressure	N/A
Dead-weight gauge casing pressure	N/A
Shut-in date (duration)	Apr. 15/95 (1 day)
Date/time on bottom	Apr. 15/95 @ 04:42
Date/time off bottom	Apr. 16/95 @ 00:57
Run depth at probe pressure port	3382.81 mKB

PRESSURE TEST RESULTS

Maximum recorded probe pressure	33784.81 kPag
Maximum recorded probe temperature	54.68 Degrees C
Final buildup pressure	33735.36 kPag
Gradient Survey Information	Gradient not ran.
Extrapolated pressure to MPP	N/A
Final gradient at depth	N/A
Z.I. Probes Job Number	N/A
Probe Serial Number	M47

PROBE INFORMATION

Probe Serial Number	M47
Model	Level II
Pressure	
Calibrated Pressure Range	0.0 - 68948.0 kPag (0 - 10000 psi)
Accuracy	0.05% FS
Resolution	0.0015% FS
Temperature	
Calibrated Temperature Range	22.6 - 124.6 Degrees C
Accuracy	0.25% FS
Resolution	0.002% FS
Calibration file used for reports	M47MR22A.CAL

PROGRAMMING DETAILS

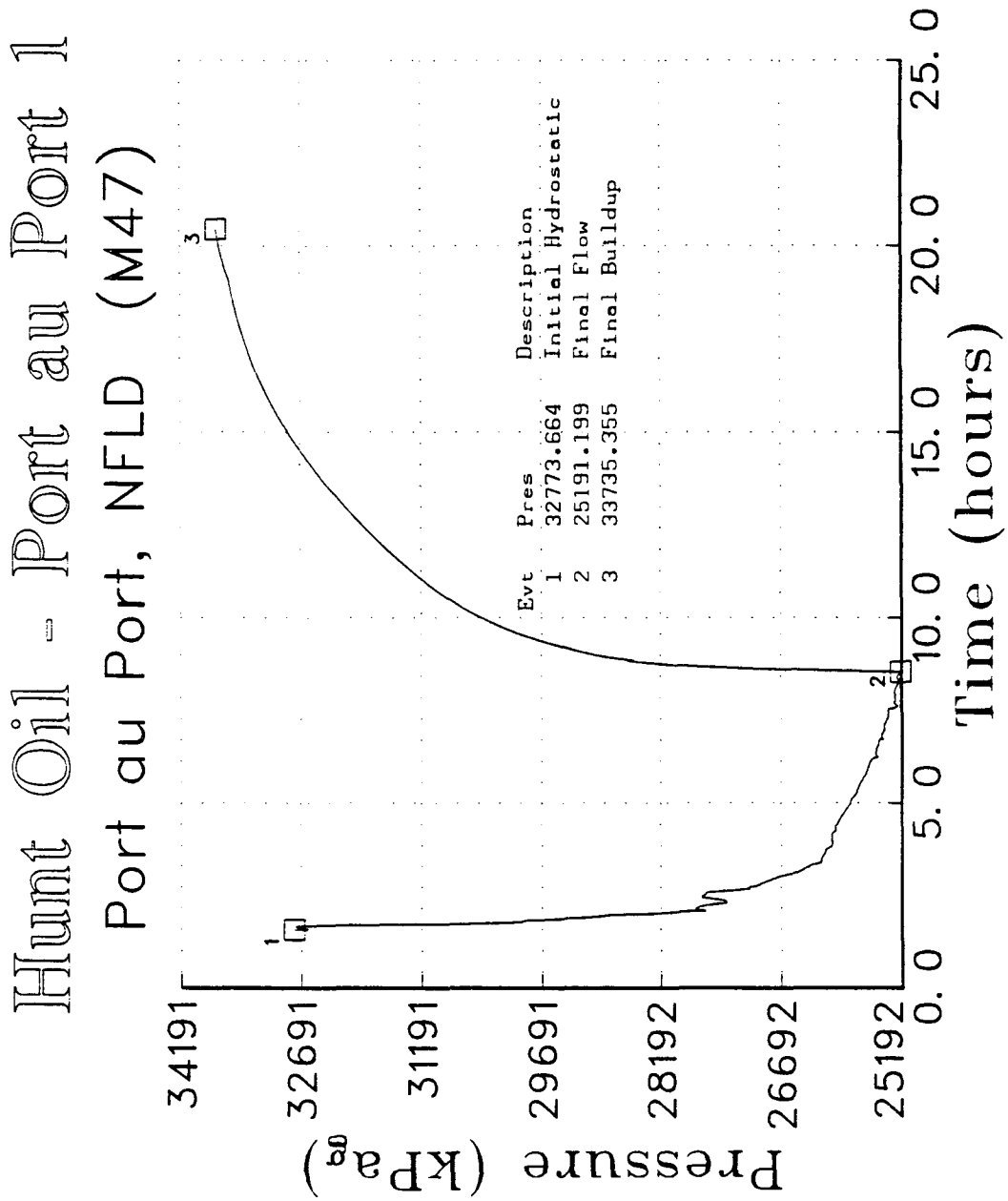
Sequence Step	Sampling Mode	Sample Period	Repetitions of step Count
1	Pause	5 seconds	6 (test mode)
2	Delta Presure on	10 seconds	5 count @ 1.0 psi
3	Normal	1 minute	10080 (7 days)
4	Delta Pressure off		
5	Overrun	1 minute	to end of memory

Program start time	Apr. 15/95 @ 04:12:50
Program end time	Apr. 16/95 @ 01:49:50
Total Samples Taken	2159
Usage for this test	0.3523 Ah
Generic Data File Name	M47AP16A.GEN
Reported by	Vladimir Djukic

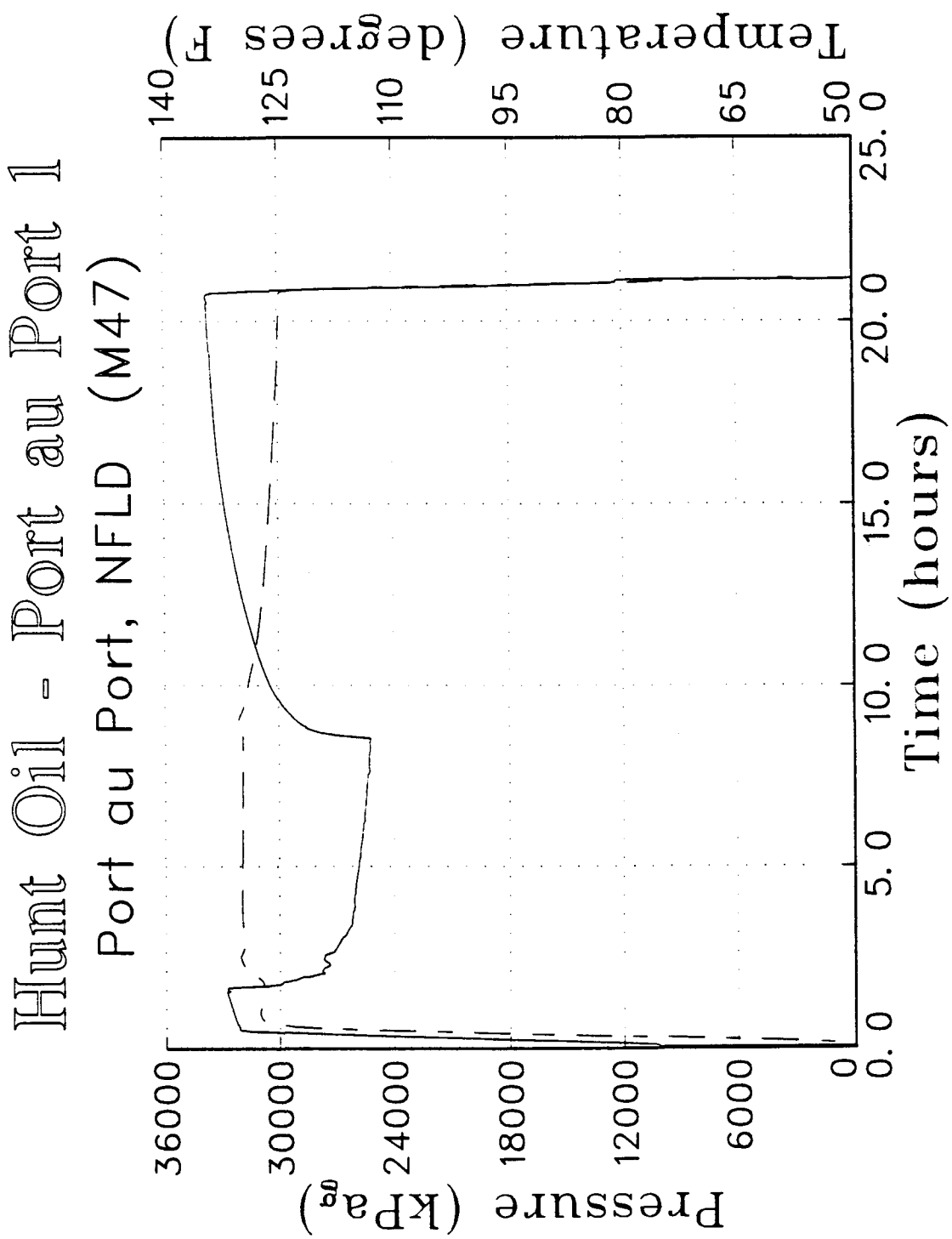
COMMENTS

Probes M47 and N12 were used on this test and maintained Level II accuracy throughout. The data from both probes is recommended for reservoir analysis.

ZIPGRAPH 3. 1b6 for Z. I. Probes, Edmonton Apr. 17, 1995 10:21:12



ZIPGRAPH 3. 1b6 for Z. I. Probes, Edmonton Apr. 17, 1995 10:10:34



Data Listing: Every 6th point of the generic data file.

Probe Number: M47
Company: Hunt Oil Company
Well: Hunt Oil - Port au Port 1
Location: Port au Port, NFLD
Field: N/A
Test Date(s): April 15 - 16/95

Time	Pressure (kPag)	Temperature (degrees C)	Time	Pressure (kPag)	Temperature (degrees C)
Sat Apr 15, 1995			05:20:50	32523.945	53.0597
04:12:50	0.000	10.1634	05:25:10	32568.354	53.0314
04:15:20	10119.077	10.1086	05:29:20	32611.938	53.0061
04:16:40	10190.937	10.4162	05:34:00	32658.061	52.9812
04:17:40	10321.613	10.7052	05:38:30	32703.338	52.9598
04:18:40	10792.372	11.0658	05:43:10	32749.068	52.9414
04:19:40	11560.192	11.7363	**1 - Initial Hydrostatic**		
04:20:40	12414.368	12.5438	05:45:40	32773.664	52.9301
04:21:40	13290.176	13.3791	05:46:20	32638.770	52.9283
04:22:40	14220.253	14.3560	05:47:50	32697.756	52.9226
04:23:40	15170.695	15.4080	05:50:20	32746.480	52.9135
04:24:40	16229.655	16.7357	05:52:10	32489.340	52.9107
04:25:40	17299.523	18.2336	05:53:10	31934.100	52.9063
04:26:40	18259.609	19.7186	05:54:10	31389.775	52.9019
04:27:40	19287.967	21.3472	05:55:10	30664.270	52.8921
04:28:40	20388.844	23.2103	05:56:10	30412.178	52.8785
04:29:40	21512.492	25.1723	05:57:10	30132.566	52.8676
04:30:40	22574.574	27.0163	05:58:10	29964.975	52.8647
04:31:40	23589.389	28.7588	06:01:10	29819.963	52.9352
04:32:40	24575.338	30.4314	06:02:10	29635.523	52.9687
04:33:40	25557.551	32.0742	06:03:10	29475.699	53.0038
04:34:40	26529.592	33.7103	06:04:10	29365.746	53.0417
04:35:40	27471.496	35.3188	06:05:10	29214.160	53.0896
04:36:40	28411.055	36.8831	06:06:10	29081.455	53.1358
04:37:40	29333.518	38.4520	06:07:10	28976.734	53.1858
04:38:40	30219.434	40.0537	06:08:30	28893.781	53.2615
04:39:40	31224.342	41.6953	06:09:30	28828.791	53.3308
04:40:50	31661.637	43.6464	06:10:30	28457.314	53.4103
04:41:50	31932.316	45.2446	06:11:30	28313.629	53.4855
04:43:00	32089.246	46.9153	06:12:30	28190.145	53.5511
04:44:00	32094.410	48.1047	06:13:30	28087.527	53.6120
04:45:20	32098.184	49.3559	06:14:30	27944.643	53.6689
04:47:00	32117.410	50.4808	06:15:30	27728.268	53.7238
04:50:50	32177.377	51.9430	06:16:40	27684.455	53.7820
04:56:50	32274.330	52.7911	06:18:50	27741.537	53.8885
05:02:50	32333.535	53.0417	06:23:10	27697.859	54.0998
05:08:20	32389.098	53.0989	06:24:30	27641.055	54.1638
05:12:20	32433.543	53.0991	06:25:40	27588.318	54.2123
05:16:30	32477.750	53.0826	06:26:40	27524.330	54.2505

Time	Pressure (kPag)	Temperature (degrees C)	Time	Pressure (kPag)	Temperature (degrees C)
Sat Apr 15, 1995			09:18:50	25806.826	54.3677
06:27:40	27458.180	54.2842	09:24:30	25765.084	54.3708
06:28:40	27396.871	54.3146	09:30:50	25741.756	54.3581
06:32:40	27395.721	54.3949	09:36:50	25718.641	54.3640
06:34:00	27457.404	54.4165	09:42:50	25707.564	54.3598
06:35:20	27532.543	54.4344	09:48:50	25677.551	54.3575
06:36:30	27593.883	54.4592	09:54:50	25655.650	54.3524
06:37:40	27647.793	54.4788	10:00:50	25626.229	54.3478
06:40:50	27656.242	54.5331	10:06:50	25610.754	54.3467
06:45:50	27612.170	54.4695	10:12:50	25592.717	54.3475
06:47:40	27487.164	54.4327	10:18:50	25579.094	54.3472
06:48:40	27379.537	54.4104	10:24:40	25542.365	54.3551
06:49:40	27285.543	54.3908	10:28:40	25502.014	54.3518
06:50:40	27213.033	54.3712	10:34:50	25506.955	54.3385
06:51:40	27142.613	54.3516	10:40:50	25497.629	54.3487
06:53:10	27083.174	54.3248	10:46:50	25473.320	54.3504
06:56:40	27013.721	54.2792	10:52:50	25469.236	54.3452
06:59:10	26963.391	54.2687	10:56:30	25433.117	54.3480
07:02:20	26910.703	54.2724	11:02:50	25430.115	54.3415
07:05:10	26857.600	54.2858	11:08:50	25408.322	54.3453
07:08:00	26804.850	54.3006	11:14:50	25406.916	54.3446
07:10:50	26747.807	54.3157	11:20:50	25393.830	54.3463
07:13:00	26697.680	54.3232	11:26:50	25375.420	54.3421
07:15:00	26643.123	54.3313	11:32:50	25356.512	54.3382
07:16:50	26579.254	54.3350	11:38:50	25352.586	54.3383
07:18:20	26524.975	54.3358	11:44:50	25341.951	54.3374
07:20:30	26465.895	54.3388	11:48:00	25262.736	54.3425
07:25:30	26394.941	54.3428	11:52:20	25253.662	54.3334
07:29:40	26326.621	54.3543	11:57:50	25260.059	54.3340
07:32:20	26263.721	54.3620	12:03:50	25267.693	54.3463
07:34:30	26208.029	54.3684	12:09:50	25260.379	54.3431
07:39:50	26191.184	54.3661	12:15:50	25265.748	54.3405
07:45:50	26162.084	54.3829	12:21:50	25245.508	54.3320
07:51:50	26135.383	54.3876	12:27:50	25218.277	54.3260
07:57:10	26124.678	54.3967	12:33:50	25228.064	54.3205
08:01:10	26070.363	54.4042	12:39:50	25224.850	54.3229
08:06:50	26044.428	54.3938	2 - Final Flow		
08:12:50	26053.779	54.4035	12:44:50	25191.199	54.3217
08:18:50	26056.115	54.4044	12:45:50	25556.068	54.3195
08:24:50	26035.361	54.4024	12:46:50	25965.607	54.3228
08:30:50	26008.455	54.3935	12:47:50	26338.029	54.3365
08:36:50	25990.387	54.3856	12:48:50	26669.496	54.3572
08:42:50	25965.727	54.3842	12:49:50	26956.721	54.3869
08:48:50	25937.264	54.3817	12:50:50	27208.725	54.4197
08:54:50	25909.562	54.3783	12:51:50	27428.711	54.4572
09:00:50	25876.273	54.3768	12:52:50	27618.816	54.4932
09:06:50	25847.186	54.3745	12:53:50	27780.025	54.5290
09:12:50	25818.645	54.3728	12:54:50	27920.354	54.5553

Time	Pressure (kPag)	Temperature (degrees C)	Time	Pressure (kPag)	Temperature (degrees C)
Sat Apr 15, 1995			14:25:20	30624.066	53.7936
12:55:50	28046.711	54.5816	14:28:50	30670.600	53.7573
12:56:50	28155.621	54.6043	14:32:40	30718.947	53.7233
12:57:50	28254.088	54.6221	14:36:20	30765.211	53.6872
12:58:50	28342.832	54.6382	14:40:20	30812.252	53.6443
12:59:50	28422.205	54.6495	14:44:20	30858.693	53.6020
13:00:50	28497.408	54.6587	14:48:30	30903.338	53.5551
13:01:50	28566.082	54.6650	14:52:30	30947.713	53.5147
13:03:10	28548.242	54.6727	14:56:30	30991.074	53.4783
13:04:10	28617.174	54.6728	15:00:30	31033.639	53.4425
Maximum Recorded Temperature			15:04:50	31077.461	53.4071
13:04:20	28629.000	54.6756	15:09:00	31120.334	53.3751
13:05:10	28679.479	54.6738	15:13:20	31163.436	53.3419
13:06:10	28740.125	54.6707	15:18:10	31210.145	53.3067
13:07:10	28793.643	54.6687	15:23:00	31255.340	53.2728
13:08:20	28852.285	54.6619	15:28:00	31302.156	53.2390
13:09:20	28898.789	54.6560	15:33:00	31345.736	53.2080
13:10:20	28942.076	54.6498	15:38:00	31390.998	53.1793
13:11:50	29003.893	54.6374	15:43:00	31435.988	53.1488
13:13:50	29078.715	54.6199	15:48:00	31481.588	53.1208
13:15:50	29148.805	54.5937	15:53:30	31530.307	53.0931
13:17:50	29214.209	54.5718	15:58:30	31574.479	53.0656
13:19:50	29274.105	54.5407	16:04:30	31623.459	53.0358
13:21:50	29334.248	54.5022	16:09:30	31665.107	53.0102
13:23:50	29394.490	54.4568	16:15:50	31716.094	52.9811
13:25:50	29453.990	54.4086	16:21:50	31764.156	52.9510
13:27:50	29512.035	54.3664	16:27:50	31812.180	52.9210
13:29:50	29568.461	54.3321	16:33:50	31860.346	52.8979
13:31:50	29623.361	54.3002	16:39:50	31905.010	52.8774
13:33:50	29674.111	54.2684	16:45:50	31949.990	52.8495
13:35:50	29729.412	54.2439	16:51:50	31992.434	52.8231
13:38:00	29778.842	54.2108	16:57:50	32035.781	52.7980
13:40:00	29831.887	54.1738	17:03:50	32078.021	52.7749
13:42:20	29887.375	54.1416	17:09:50	32118.953	52.7505
13:44:40	29938.143	54.1205	17:15:50	32159.141	52.7291
13:47:10	29990.500	54.1058	17:21:50	32199.650	52.7062
13:49:40	30042.227	54.0952	17:27:50	32239.375	52.6863
13:52:30	30095.338	54.0837	17:33:50	32278.422	52.6655
13:54:50	30145.012	54.0698	17:39:50	32316.973	52.6436
13:57:50	30200.426	54.0483	17:45:50	32353.256	52.6189
14:00:50	30254.221	54.0226	17:51:50	32389.686	52.5993
14:03:50	30304.826	53.9958	17:57:50	32425.422	52.5791
14:06:50	30353.289	53.9676	18:03:50	32461.791	52.5596
14:09:50	30400.562	53.9389	18:09:50	32497.746	52.5408
14:12:50	30447.143	53.9117	18:15:50	32532.844	52.5224
14:15:50	30492.164	53.8833	18:21:50	32567.664	52.5044
14:19:00	30536.162	53.8540	18:27:50	32602.773	52.4860
14:22:00	30578.967	53.8246	18:33:50	32636.508	52.4659

Time	Pressure (kPag)	Temperature (degrees C)	Time	Pressure (kPag)	Temperature (degrees C)
Sat Apr 15, 1995			23:09:50	33563.559	51.7322
18:39:50	32670.520	52.4452	23:15:50	33572.973	51.7203
18:45:50	32701.688	52.4261	23:21:50	33586.715	51.7086
18:51:50	32734.400	52.4078	23:27:50	33604.066	51.6983
18:57:50	32766.568	52.3915	23:33:50	33623.375	51.6866
19:03:50	32797.098	52.3731	23:39:50	33636.500	51.6733
19:09:50	32827.195	52.3539	23:45:50	33647.695	51.6614
19:15:50	32856.371	52.3369	23:51:50	33658.758	51.6536
19:21:50	32884.016	52.3214	23:57:50	33669.594	51.6431
19:27:50	32913.621	52.3079	**Sun Apr 16, 1995**		
19:33:50	32941.195	52.2902	00:03:50	33679.168	51.6303
19:39:50	32969.074	52.2729	00:09:50	33688.156	51.6166
19:45:50	32995.168	52.2554	00:15:50	33697.777	51.6017
19:51:50	33020.789	52.2383	00:21:50	33707.566	51.5911
19:57:50	33046.281	52.2229	00:27:50	33716.793	51.5823
20:03:50	33069.566	52.2084	00:33:50	33725.746	51.5774
20:09:50	33093.945	52.1880	00:39:50	33733.582	51.5687
20:15:50	33116.934	52.1720	**3 - Final Buildup**		
20:21:50	33140.000	52.1528	00:40:50	33735.355	51.5677
20:27:50	33161.559	52.1380	00:45:40	33714.176	51.5675
20:33:50	33183.391	52.1233	00:51:10	33777.215	51.5674
20:39:50	33204.309	52.1077	**Maximum Recorded Pressure**		
20:45:50	33225.031	52.0929	00:51:40	33784.805	51.5707
20:51:50	33243.148	52.0746	00:56:50	33719.539	51.5663
20:57:50	33261.246	52.0613	00:59:00	33352.906	51.5171
21:03:50	33279.703	52.0461	01:00:00	32562.393	51.4508
21:09:50	33296.496	52.0268	01:01:00	31748.908	51.2448
21:15:50	33313.902	52.0107	01:02:00	30872.402	50.8169
21:21:50	33329.883	51.9934	01:03:00	29785.596	50.1173
21:27:50	33344.504	51.9782	01:04:00	28784.260	49.1928
21:33:50	33360.039	51.9633	01:05:00	27544.129	48.0751
21:39:50	33376.137	51.9477	01:06:00	26088.953	46.7700
21:45:50	33391.398	51.9308	01:07:00	24418.125	45.1622
21:51:50	33407.742	51.9150	01:08:00	22312.021	43.2526
21:57:50	33422.258	51.9029	01:09:00	20557.889	41.1903
22:03:50	33437.426	51.8907	01:10:00	19261.891	39.0170
22:09:50	33452.543	51.8762	01:11:00	17942.086	36.8194
22:15:50	33466.594	51.8632	01:12:00	16700.174	34.4781
22:21:50	33478.824	51.8466	01:13:00	15235.822	31.9390
22:27:50	33491.070	51.8307	01:14:00	13766.722	29.5081
22:33:50	33502.414	51.8147	01:15:00	12702.016	27.0099
22:39:50	33513.141	51.8015	01:16:00	12432.134	24.5980
22:45:50	33525.590	51.7882	01:18:30	12308.049	19.6774
22:51:50	33535.645	51.7745	01:19:50	11949.414	17.6038
22:57:50	33545.207	51.7615	01:20:50	595.402	16.1331
23:03:50	33554.578	51.7481	01:21:50	0.000	14.2117

DST 3

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Z.I. Probes Pressure Test Report

COMPANY INFORMATION

Company Name	Hunt Oil Company
Representative	
Phone	(403) 269-3400
Address	1450, 801 - 6th Avenue S.W. Calgary, AB T2P 3W2
Service Company	Solid Wireline Services

WELL INFORMATION

Well Name	Hunt Oil - Port au Port 1
Well Location	Port au Port, NFLD
Field and pool	N/A
Status (oil, gas, water, injection)	Gas
Perforated Intervals	N/A
Mid point of Perforated Intervals (MPP)	N/A
Drilling Rig Number	
Elevations	
Kelly Bushing (KB)	N/A
Casing Flange (CF)	N/A
KB-CF	N/A
Ground Level (GL)	N/A
Plug back total depth	N/A
Total depth	N/A
Production Casing	N/A
Production Tubing	N/A

TEST INFORMATION

Test number / Type of test	Flow and Buildup
Date(s) of test	April 15 - 16/95
Dead-weight gauge tubing pressure	N/A
Dead-weight gauge casing pressure	N/A
Shut-in date (duration)	Apr. 15/95
Date/time on bottom	Apr. 15/95 @ 04:42
Date/time off bottom	Apr. 16/95 @ 00:57
Run depth at probe pressure port	3383.89 mKB

PRESSURE TEST RESULTS

Maximum recorded probe pressure	33789.48 kPag
Maximum recorded probe temperature	55.16 Degrees C
Final buildup pressure	33737.77 kPag
Gradient Survey Information	Gradient not ran.
Extrapolated pressure to MPP	N/A
Final gradient at depth	N/A
Z.I. Probes Job Number	N/A
Probe Serial Number	N12

PROBE INFORMATION

Probe Serial Number	N12
Model	Level II
Pressure	
Calibrated Pressure Range	0.0 - 68948.0 kPag (0 - 10000 psi)
Accuracy	0.05% FS
Resolution	0.0015% FS
Temperature	
Calibrated Temperature Range	23.4 - 124.7 Degrees C
Accuracy	0.25% FS
Resolution	0.002% FS
Calibration file used for reports	N12MR23A.CAL

PROGRAMMING DETAILS

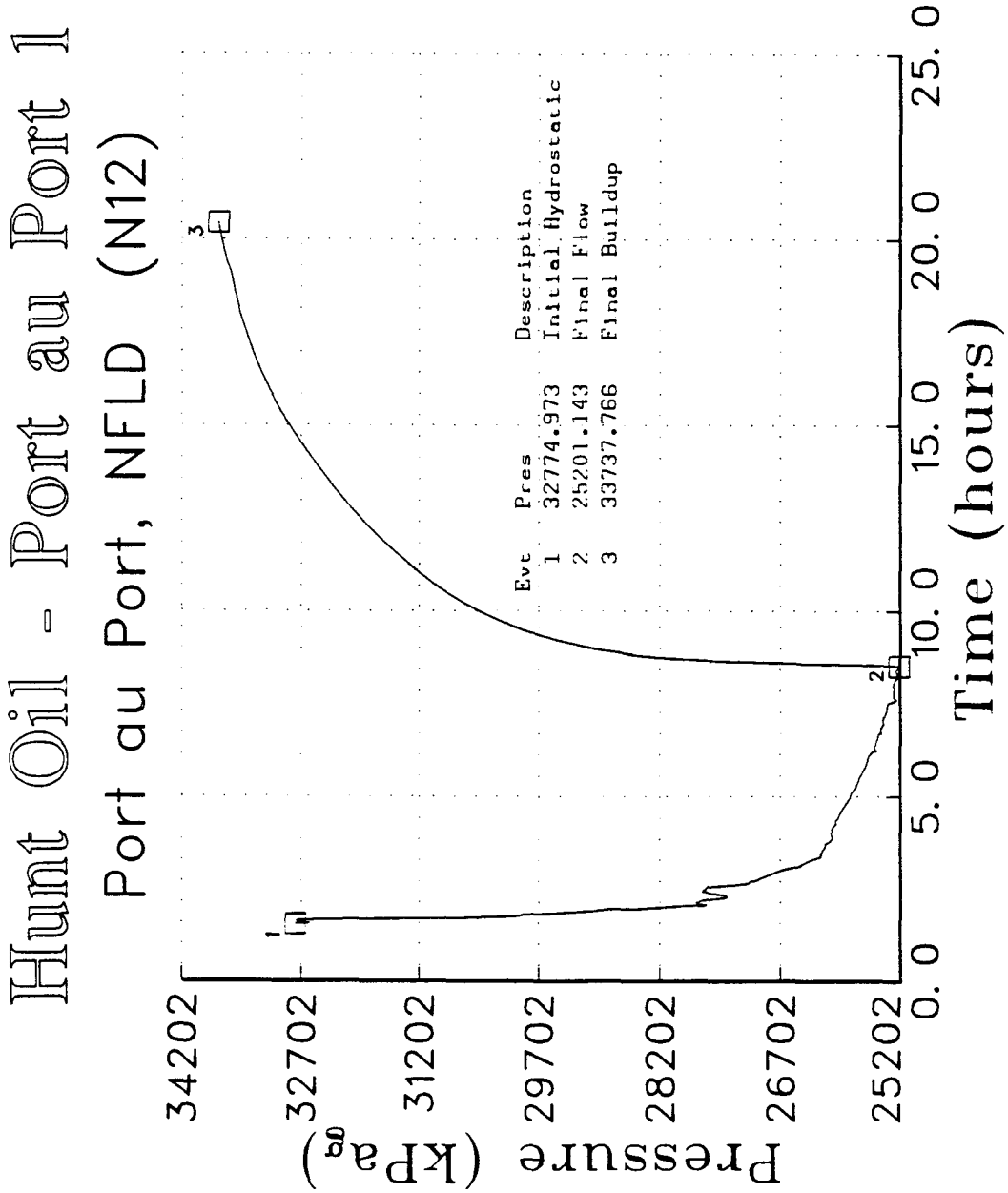
Sequence Step	Sampling Mode	Sample Period	Repetitions of step Count
1	Pause	5 seconds	6 (test mode)
2	Delta Pressure on	10 seconds	5 count @ 1.0 psi
3	Normal	1 minute	10080 (7 days)
4	Delta Pressure off		
5	Overrun	1 minute	to end of memory

Program start time	Apr. 15/95 @ 04:13:16
Program end time	Apr. 16/95 @ 01:47:16
Total Samples Taken	2161
Usage for this test	0.2046 Ah
Generic Data File Name	N12AP16A.GEN
Reported by	Vladimir Djukic

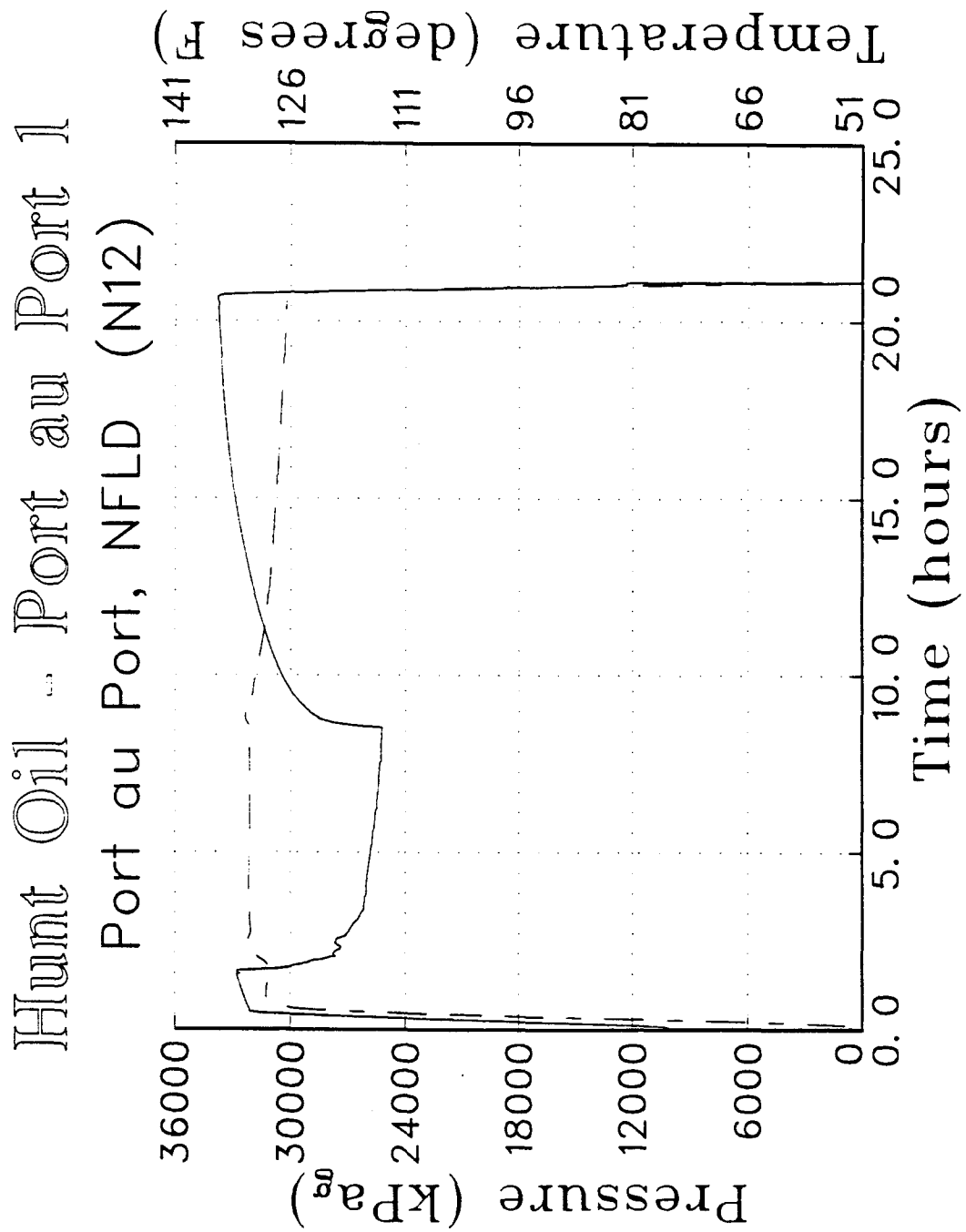
COMMENTS

Probes M47 and N12 were used on this test and maintained Level II accuracy throughout. The data from both probes is recommended for reservoir analysis.

ZIPGRAPH 3.1b6 for Z.I. Probes, Edmonton Apr. 17, 1995 10:32:21



ZIPGRAPH 3. 1b6 for Z. I. Probes, Edmonton Apr. 17, 1995 10:33:11



Data Listing: Every 6th point of the generic data file.

Probe Number: N12
Company: Hunt Oil Company
Well: Hunt Oil - Port au Port 1
Location: Port au Port, NFLD
Field: N/A
Test Date(s): April 15 - 16/95

Time	Pressure (kPag)	Temperature (degrees C)	Time	Pressure (kPag)	Temperature (degrees C)
Sat Apr 15, 1995			05:18:46	32510.510	53.6675
04:13:16	15.631	10.4221	05:22:56	32554.146	53.6463
04:15:26	10148.785	10.3756	05:27:26	32600.289	53.6211
04:16:26	10200.395	10.3228	05:31:56	32645.502	53.5985
04:17:26	10324.757	10.3910	05:36:56	32695.482	53.5767
04:18:26	10781.068	10.6725	05:41:46	32744.154	53.5570
04:19:26	11528.031	11.1820	**1 - Initial Hydrostatic**		
04:20:26	12369.799	11.9165	05:44:56	32774.973	53.5462
04:21:26	13241.636	12.7946	05:45:56	32597.445	53.5431
04:22:26	14157.037	13.7490	05:47:16	32692.312	53.5370
04:23:26	15114.381	14.8843	05:49:36	32744.178	53.5294
04:24:26	16167.342	16.2745	05:51:56	32534.691	53.5218
04:25:26	17240.309	17.7726	05:52:56	31986.135	53.5182
04:26:26	18212.279	19.3723	05:53:56	31429.535	53.5110
04:27:26	19248.844	21.1551	05:54:56	30687.361	53.5026
04:28:26	20349.434	23.0902	05:55:56	30438.443	53.4932
04:29:26	21461.018	25.0572	05:56:56	30159.098	53.4854
04:30:26	22536.553	27.0239	05:57:56	29986.471	53.4908
04:31:26	23554.588	28.9062	06:00:16	29919.885	53.5565
04:32:26	24545.285	30.7134	06:01:16	29781.865	53.5883
04:33:26	25526.945	32.5315	06:02:16	29590.184	53.6160
04:34:26	26501.312	34.3225	06:03:16	29451.291	53.6443
04:35:26	27443.443	36.0921	06:04:16	29338.504	53.6818
04:36:26	28383.102	37.7686	06:05:16	29173.016	53.7251
04:37:26	29311.979	39.4057	06:06:16	29057.920	53.7716
04:38:26	30193.238	41.0117	06:07:16	28974.367	53.8182
04:39:26	31205.422	42.6319	06:08:26	28894.975	53.8904
04:40:36	31694.736	44.5335	06:09:26	28820.883	53.9610
04:41:36	31938.238	46.0645	06:10:26	28436.711	54.0304
04:42:36	32111.887	47.4406	06:11:26	28306.328	54.0971
04:43:36	32116.785	48.6170	06:12:26	28188.654	54.1588
04:44:56	32124.111	49.8517	06:13:26	28073.893	54.2162
04:46:06	32118.949	50.6800	06:14:26	27941.250	54.2703
04:48:16	32145.627	51.7578	06:15:26	27699.406	54.3234
04:54:16	32253.172	53.1205	06:16:36	27696.926	54.3809
05:00:16	32317.082	53.5411	06:20:16	27760.641	54.5534
05:05:46	32371.094	53.6648	06:23:16	27689.488	54.6926
05:10:36	32422.912	53.6897	06:24:56	27624.086	54.7626
05:14:46	32468.316	53.6835	06:25:56	27565.947	54.7986

Time	Pressure (kPag)	Temperature (degrees C)	Time	Pressure (kPag)	Temperature (degrees C)
Sat Apr 15, 1995			09:17:16	25813.688	54.8933
06:26:56	27502.018	54.8291	09:23:16	25781.191	54.8946
06:27:56	27436.168	54.8558	09:29:16	25748.094	54.8858
06:29:06	27375.359	54.8813	09:35:16	25730.518	54.8834
06:33:06	27428.182	54.9407	09:41:16	25715.455	54.8855
06:34:36	27500.068	54.9615	09:47:16	25691.674	54.8842
06:35:46	27568.523	54.9773	09:53:16	25666.887	54.8797
06:37:06	27636.541	54.9973	09:59:16	25638.215	54.8797
06:40:16	27667.230	55.0385	10:05:16	25618.840	54.8741
06:46:16	27598.027	54.9665	10:11:16	25603.121	54.8751
06:47:16	27513.703	54.9477	10:17:16	25587.959	54.8749
06:48:16	27406.635	54.9291	10:23:16	25558.869	54.8800
06:49:16	27310.957	54.9100	10:27:46	25503.547	54.8770
06:50:16	27233.178	54.8931	10:34:16	25511.416	54.8674
06:51:16	27161.582	54.8746	10:40:16	25503.537	54.8763
06:52:16	27104.447	54.8581	10:46:16	25481.596	54.8778
06:55:46	27044.717	54.8106	10:52:16	25472.121	54.8736
06:57:36	26992.420	54.7998	10:56:16	25436.062	54.8755
07:00:36	26942.250	54.7949	11:02:16	25435.658	54.8699
07:03:36	26889.041	54.8039	11:08:16	25416.973	54.8745
07:06:16	26836.996	54.8159	11:14:16	25408.445	54.8773
07:09:16	26779.561	54.8309	11:20:16	25403.152	54.8732
07:11:46	26728.775	54.8418	11:26:16	25379.730	54.8710
07:13:46	26678.611	54.8490	11:32:16	25359.885	54.8683
07:15:46	26617.998	54.8543	11:38:16	25356.807	54.8656
07:17:36	26549.178	54.8573	11:44:16	25347.268	54.8661
07:19:36	26487.861	54.8588	11:47:06	25279.264	54.8699
07:24:16	26421.016	54.8627	11:52:16	25260.123	54.8588
07:27:46	26361.252	54.8715	11:58:16	25263.270	54.8628
07:31:06	26304.234	54.8809	12:04:16	25273.051	54.8739
07:33:06	26245.629	54.8861	12:10:16	25268.420	54.8718
07:35:26	26194.436	54.8908	12:16:16	25267.674	54.8676
07:41:56	26182.092	54.8978	12:22:16	25247.801	54.8620
07:48:16	26155.705	54.9084	12:28:16	25222.107	54.8551
07:54:16	26138.105	54.9111	12:34:16	25235.260	54.8515
07:59:26	26093.512	54.9216	12:40:16	25226.646	54.8543
08:05:16	26051.410	54.9187	**2 - Final Flow**		
08:11:16	26057.650	54.9212	12:44:16	25201.143	54.8523
08:17:16	26054.215	54.9267	12:45:26	25483.607	54.8524
08:23:16	26048.275	54.9257	12:46:26	25886.213	54.8554
08:29:06	26002.314	54.9217	12:47:26	26269.064	54.8635
08:35:16	26005.680	54.9109	12:48:26	26606.506	54.8823
08:41:16	25974.023	54.9080	12:49:26	26904.354	54.9066
08:47:16	25944.381	54.9055	12:50:26	27163.871	54.9384
08:53:16	25918.154	54.9018	12:51:26	27388.352	54.9715
08:59:16	25887.107	54.9025	12:52:26	27586.160	55.0036
09:05:16	25858.201	54.8991	12:53:26	27752.494	55.0346
09:11:16	25827.125	54.8965	12:54:26	27897.309	55.0614

Time	Pressure (kPag)	Temperature (degrees C)	Time	Pressure (kPag)	Temperature (degrees C)
Sat Apr 15, 1995			14:28:06	30669.963	54.3213
12:55:26	28026.059	55.0853	14:32:06	30720.594	54.2860
12:56:26	28137.969	55.1039	14:36:06	30770.232	54.2502
12:57:26	28237.840	55.1192	14:40:06	30817.918	54.2158
12:58:26	28329.039	55.1319	14:44:06	30863.387	54.1787
12:59:26	28409.418	55.1418	14:48:06	30908.240	54.1424
13:00:26	28485.607	55.1495	14:52:06	30952.268	54.1059
13:01:26	28555.889	55.1540	14:56:16	30997.830	54.0692
13:02:26	28620.031	55.1579	15:00:16	31040.398	54.0356
Maximum Recorded Temperature			15:04:46	31086.105	54.0004
13:03:36	28595.064	55.1592	15:09:26	31133.072	53.9634
13:04:36	28659.734	55.1584	15:14:06	31179.582	53.9308
13:05:36	28721.568	55.1559	15:18:46	31224.631	53.8981
13:06:36	28777.049	55.1516	15:23:46	31271.854	53.8639
13:07:36	28829.643	55.1448	15:28:46	31317.818	53.8315
13:08:36	28877.414	55.1368	15:33:46	31361.768	53.8017
13:09:36	28921.883	55.1294	15:38:46	31405.918	53.7734
13:11:06	28984.885	55.1140	15:43:46	31452.000	53.7455
13:13:06	29062.322	55.0920	15:48:46	31495.980	53.7190
13:15:06	29133.943	55.0673	15:53:46	31540.578	53.6927
13:17:06	29200.037	55.0391	15:58:46	31584.619	53.6685
13:19:06	29264.846	55.0019	16:05:16	31638.990	53.6360
13:21:06	29328.609	54.9613	16:11:16	31688.105	53.6066
13:23:06	29390.109	54.9212	16:17:16	31736.287	53.5825
13:25:06	29450.477	54.8848	16:23:16	31783.514	53.5548
13:27:06	29508.318	54.8557	16:29:16	31831.629	53.5297
13:29:06	29563.658	54.8286	16:35:16	31877.889	53.5040
13:31:06	29617.594	54.8041	16:41:16	31923.352	53.4821
13:33:06	29670.688	54.7829	16:47:16	31968.168	53.4578
13:35:06	29724.143	54.7627	16:53:16	32011.498	53.4297
13:37:06	29776.160	54.7421	16:59:16	32053.658	53.4078
13:39:16	29830.432	54.7069	17:05:16	32095.895	53.3818
13:41:36	29882.566	54.6720	17:11:16	32135.953	53.3618
13:43:46	29934.133	54.6523	17:17:16	32176.945	53.3407
13:46:16	29985.867	54.6404	17:23:16	32217.330	53.3193
13:48:46	30036.521	54.6305	17:29:16	32256.223	53.2997
13:51:36	30089.340	54.6191	17:35:16	32294.807	53.2756
13:53:56	30137.703	54.6067	17:41:16	32333.168	53.2542
13:56:36	30189.713	54.5902	17:47:16	32370.230	53.2355
13:59:36	30243.949	54.5691	17:53:16	32406.035	53.2163
14:02:36	30295.004	54.5441	17:59:16	32442.521	53.1982
14:05:36	30343.879	54.5180	18:05:16	32477.941	53.1804
14:08:36	30391.211	54.4915	18:11:16	32513.951	53.1617
14:11:36	30437.096	54.4654	18:17:16	32548.879	53.1462
14:14:36	30482.664	54.4391	18:23:16	32582.918	53.1278
14:17:36	30526.729	54.4126	18:29:16	32617.756	53.1096
14:20:46	30571.396	54.3855	18:35:16	32651.074	53.0920
14:24:06	30617.471	54.3565	18:41:16	32684.783	53.0753

Time	Pressure (kPag)	Temperature (degrees C)
Sat Apr 15, 1995		
18:47:16	32717.607	53.0570
18:53:16	32749.021	53.0404
18:59:16	32781.172	53.0236
19:05:16	32811.320	53.0032
19:11:16	32840.711	52.9860
19:17:16	32869.891	52.9717
19:23:16	32898.449	52.9554
19:29:16	32926.902	52.9384
19:35:16	32954.258	52.9215
19:41:16	32982.055	52.9050
19:47:16	33007.965	52.8878
19:53:16	33033.387	52.8731
19:59:16	33058.277	52.8581
20:05:16	33082.793	52.8435
20:11:16	33106.680	52.8279
20:17:16	33130.043	52.8109
20:23:16	33151.820	52.7948
20:29:16	33174.297	52.7808
20:35:16	33195.668	52.7663
20:41:16	33216.621	52.7514
20:47:16	33235.621	52.7358
20:53:16	33254.809	52.7216
20:59:16	33273.105	52.7069
21:05:16	33290.477	52.6945
21:11:16	33307.793	52.6802
21:17:16	33324.402	52.6659
21:23:16	33340.980	52.6528
21:29:16	33355.281	52.6368
21:35:16	33371.020	52.6230
21:41:16	33386.906	52.6087
21:47:16	33402.602	52.5936
21:53:16	33418.316	52.5827
21:59:16	33433.426	52.5690
22:05:16	33448.555	52.5561
22:11:16	33463.293	52.5437
22:17:16	33476.410	52.5298
22:23:16	33488.523	52.5161
22:29:16	33500.230	52.5024
22:35:16	33511.988	52.4897
22:41:16	33522.715	52.4747
22:47:16	33535.262	52.4619
22:53:16	33544.055	52.4478
22:59:16	33553.086	52.4326
23:05:16	33562.953	52.4188
23:11:16	33571.594	52.4067
23:17:16	33581.238	52.3944
23:23:16	33595.645	52.3856
23:29:16	33613.895	52.3768
23:35:16	33632.070	52.3657
23:41:16	33643.898	52.3502
23:47:16	33655.121	52.3407
23:53:16	33665.473	52.3325
23:59:16	33675.672	52.3227
Sun Apr 16, 1995		
00:05:16	33684.883	52.3133
00:11:16	33694.629	52.3008
00:17:16	33704.277	52.2898
00:23:16	33713.352	52.2779
00:29:16	33722.023	52.2701
00:35:16	33730.672	52.2629
3 - Final Buildup		
00:40:16	33737.766	52.2546
00:41:16	33688.105	52.2532
00:46:26	33726.875	52.2507
00:50:46	33779.742	52.2507
Maximum Recorded Pressure		
00:51:26	33789.484	52.2522
00:55:46	33736.305	52.2562
00:57:36	33530.703	52.2526
00:58:56	33258.883	52.2237
00:59:56	32436.408	52.1302
01:00:56	31618.844	51.7958
01:01:56	30710.723	51.1694
01:02:56	29623.893	50.2585
01:03:56	28643.537	49.0828
01:04:56	27332.328	47.7301
01:05:56	25864.459	46.2089
01:06:56	24146.293	44.5639
01:07:56	21957.139	42.7703
01:08:56	20377.807	40.8606
01:09:56	19063.826	38.8604
01:10:56	17788.322	36.7299
01:11:56	16492.164	34.3078
01:12:56	15023.920	31.7535
01:13:56	13557.556	29.1878
01:14:56	12673.672	26.4913
01:15:56	12407.572	23.8882
01:18:06	12326.836	19.3205
01:19:06	12328.317	17.6339
01:20:16	1328.962	15.7805
01:21:16	88.330	13.9157
01:21:36	22.077	13.2538

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Z.I. Probes Pressure Test Report

COMPANY INFORMATION

Company Name	Hunt Oil Company
Representative	
Phone	(403) 269-3400
Address	1450, 801 - 6th Avenue S.W. Calgary, AB T2P 3W2
Service Company	Solid Resources Ltd.

WELL INFORMATION

Well Name	Hunt Oil - Port au Port 1
Well Location	Port au Port, NFLD
Field and pool	N/A
Status (oil, gas, water, injection)	Gas
Perforated Intervals	N/A
Mid point of Perforated Intervals (MPP)	N/A
Drilling Rig Number	
Elevations	
Kelly Bushing (KB)	N/A
Casing Flange (CF)	N/A
KB-CF	N/A
Ground Level (GL)	N/A
Plug back total depth	N/A
Total depth	N/A
Production Casing	N/A
Production Tubing	N/A

TEST INFORMATION

Test number / Type of test	Flow and Buildup / Static Gradient
Date(s) of test	April 18 - 21/95
Dead-weight gauge tubing pressure	N/A
Dead-weight gauge casing pressure	12004 kPag, 04/21/95
Shut-in date (duration)	Apr. 20/95 (1 day)
Date/time on bottom	Apr. 18/95 @ 17:42
Date/time off bottom	Apr. 21/95 @ 20:19
Run depth at probe pressure port	3381.89 mKB

PRESSURE TEST RESULTS

Maximum recorded probe pressure	35797.25 kPag
Maximum recorded probe temperature	54.26 Degrees C
Final buildup pressure	31045.27 kPag
Gradient Survey Information	Gradient ran following flow and buildup.
Extrapolated pressure to MPP	30953.89 kPag
Final gradient at depth	5.746 kPa/m
Z.I. Probes Job Number	N/A
Probe Serial Number	N12

PROBE INFORMATION

Probe Serial Number	N12
Model	Level II
Pressure	
Calibrated Pressure Range	0.0 - 68948.0 kPag (0 - 10000 psi)
Accuracy	0.05% FS
Resolution	0.0015% FS
Temperature	
Calibrated Temperature Range	23.4 - 124.7 Degrees C
Accuracy	0.25% FS
Resolution	0.002% FS
Calibration file used for reports	N12MR23A.CAL

PROGRAMMING DETAILS

Sequence Step	Sampling Mode	Sample Period	Repetitions of step Count
1	Pause	5 seconds	6 (test mode)
2	Delta Pressure On	10 seconds	5 count / 0.5 psi
3	Normal	1 minute	20160 (14 days)
4	Delta Pressure Off		
5	Overrun	1 minute	to end of memory

Program start time	Apr. 18/95 @ 16:59:17
Program end time	Apr. 21/95 @ 23:38:17
Total Samples Taken	7418
Usage for this test	0.6544 Ah
Generic Data File Name	N12AP21A.GEN
Reported by	Bruce Peterson

COMMENTS

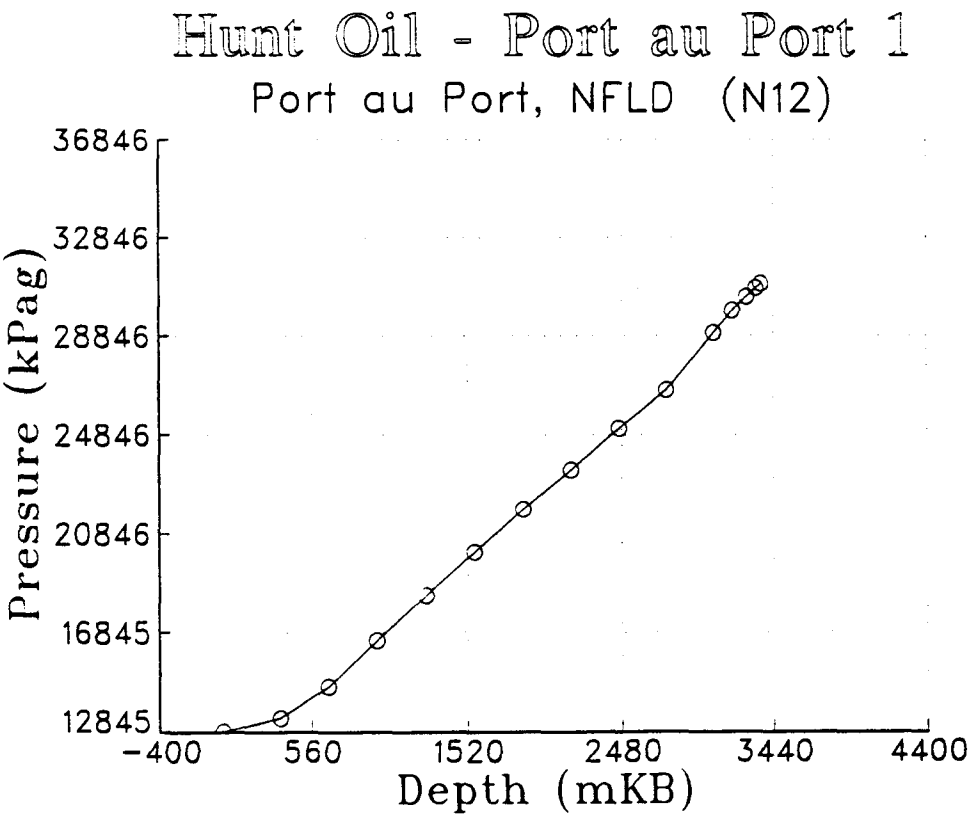
Probes M47 and N12 were used on this test and maintained Level II accuracy throughout. The data from both probes is recommended for reservoir analysis.

Pressure vs. Depth

Probe	N12
Company	Hunt Oil Company
Well Name	Hunt Oil - Port au Port 1
Well Location	Port au Port, NFLD
Field and Pool	N/A
Date of Test	April 21/95

Stop Time From	To	Depth (mKB)	Pressure (kPag)	Gradient (kPa/m)
20:20	20:30	3362.890	30953.254	5.7461
20:30	20:40	3332.890	30780.871	5.7461
20:41	20:51	3272.890	30430.371	5.8417
20:53	21:03	3182.890	29878.086	6.1365
21:05	21:15	3062.890	28973.914	7.5348
21:20	21:30	2762.890	26667.912	7.6867
21:33	21:43	2462.890	25091.662	5.2542
21:45	21:55	2162.890	23429.301	5.5412
21:57	22:07	1862.890	21833.863	5.3181
22:10	22:20	1562.890	20105.277	5.7620
22:23	22:33	1262.890	18332.705	5.9086
22:35	22:45	962.890	16532.615	6.0003
22:48	22:58	662.890	14658.636	6.2466
23:00	23:10	362.890	13387.412	4.2374
23:14	23:24	-0.110	12845.122	1.4939

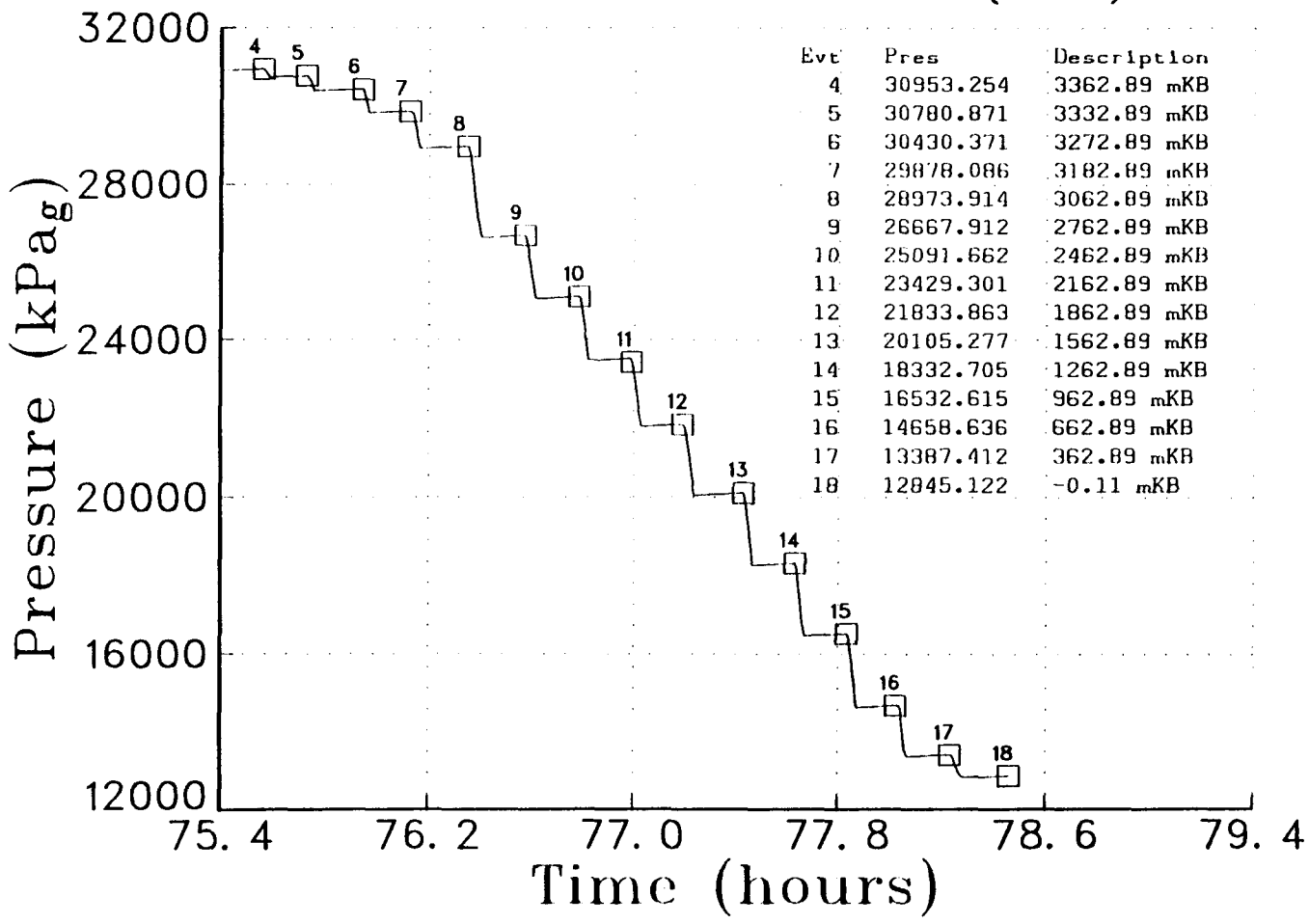
MPP Pressure extrapolated using a least-squares fit:
3363.000 30953.886



ZIPGRAPH 3.1b6 for Z.I. Probes, Edmonton Apr. 24, 1995 16:34:28

Hunt Oil - Port au Port 1

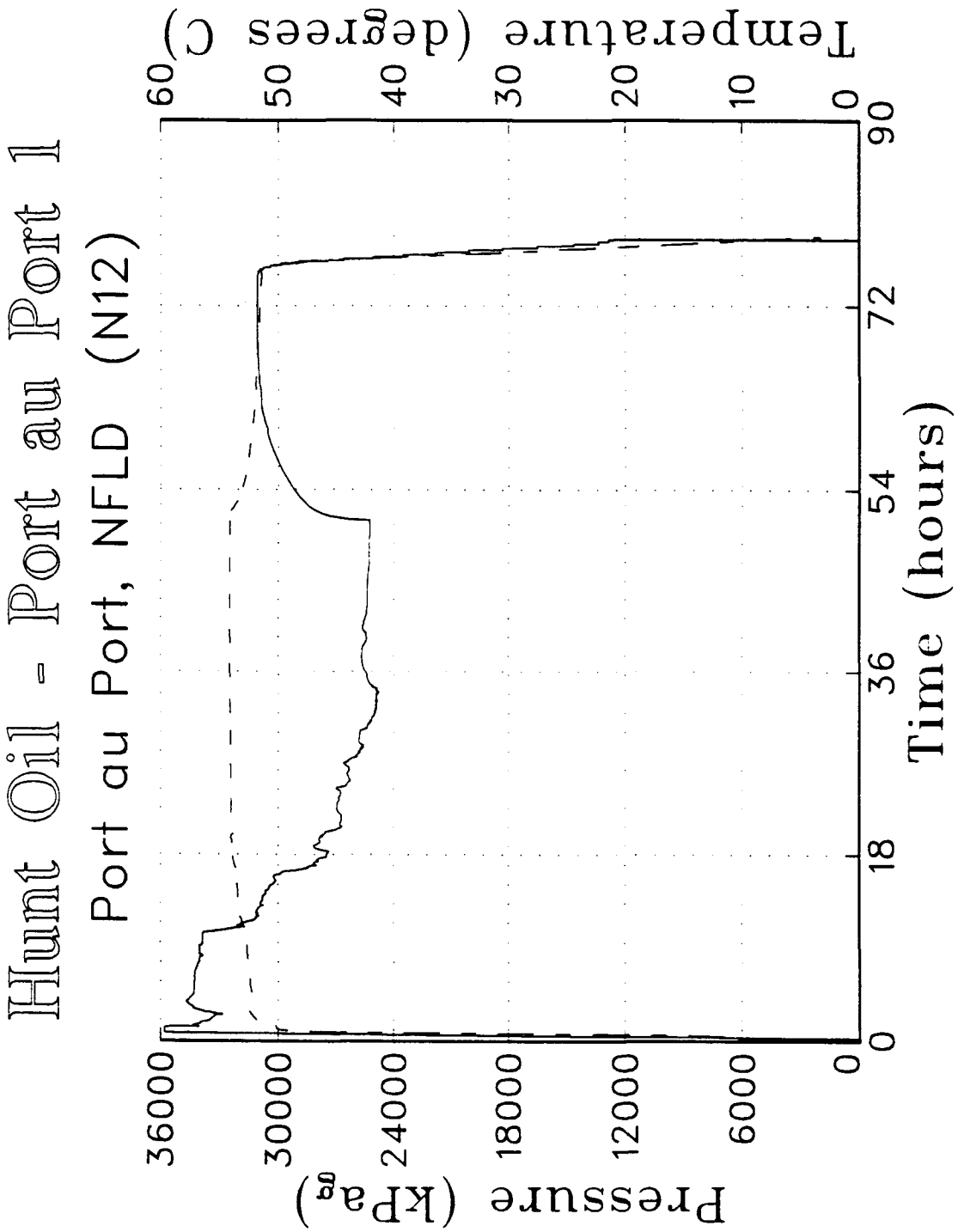
Port au Port, NFLD (N12)

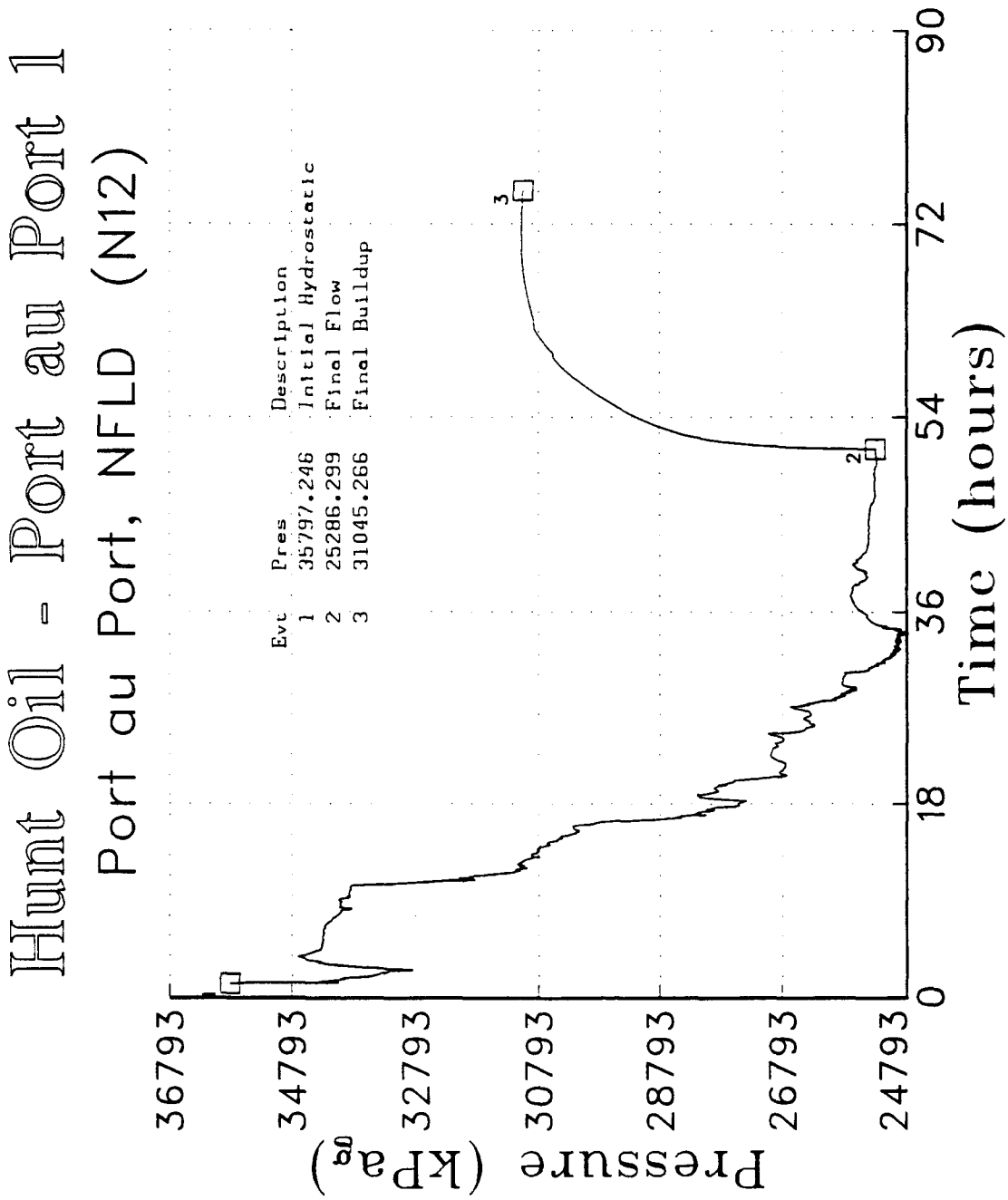


Evt	Pres	Description
4	30953.254	3362.89 mKB
5	30780.871	3332.89 mKB
6	30430.371	3272.89 mKB
7	29878.086	3182.89 mKB
8	28973.914	3062.89 mKB
9	26667.912	2762.89 mKB
10	25091.662	2462.89 mKB
11	23429.301	2162.89 mKB
12	21833.863	1862.89 mKB
13	20105.277	1562.89 mKB
14	18332.705	1262.89 mKB
15	16532.615	962.89 mKB
16	14658.636	662.89 mKB
17	13387.412	362.89 mKB
18	12845.122	-0.11 mKB

ZIPGRAPH 3.1b6 for Z.I. Probes, Edmonton Apr. 24, 1995 13:48:01

ZIPGRAPH 3. 1b6 for Z. I. Probes, Edmonton Apr. 24, 1995 13:49:38




Hunt Oil - Port au Port 1
Port au Port, NFLD (N12)
Evt Pres Description
1 35797.246 Initial Hydrostatic
2 25286.299 Final Flow
3 31045.266 Final Buildup
Pressure (kPa$_g$)
36793
34793
32793
30793
28793
26793
24793
0
18
36
54
72
90
Time (hours)

Data Listing: Every 20th point of the generic data file.

Probe Number: N12
Company: Hunt Oil Company
Well: Hunt Oil - Port au Port 1
Location: Port au Port, NFLD
Field: N/A
Test Date(s): April 18 - 21/95

Time	Pressure (kPag)	Temperature (degrees C)
Tue Apr 18, 1995		
16:59:17	17.004	4.1108
17:04:17	5708.854	7.0152
17:14:47	5062.268	9.4801
17:18:07	7491.104	10.5731
17:21:27	11136.141	12.4116
17:24:47	15426.516	14.8447
17:28:07	19331.545	18.1777
17:31:27	23547.848	22.5754
17:34:47	27169.875	27.4764
17:38:07	31452.502	33.1921
17:41:27	35482.457	39.2290
17:44:47	35766.719	44.2521
17:48:17	35768.375	47.3331
17:56:47	35781.711	49.7432
Maximum Recorded Pressure		
1 - Initial Hydrostatic		
18:15:17	35797.246	50.1322
18:16:27	35602.363	50.1312
18:20:17	34106.613	50.1846
18:28:47	34280.352	50.7615
18:33:27	34098.527	51.0276
18:41:07	33938.262	51.4693
18:48:37	33861.410	51.6939
18:52:07	33682.031	51.7574
18:59:57	33477.488	51.8740
19:14:17	33325.891	52.0705
19:26:17	33156.012	52.2073
19:29:47	32897.004	52.2456
19:34:47	33110.766	52.2967
19:38:57	33352.254	52.3364
19:44:17	33645.488	52.3947
19:49:47	33857.164	52.4317
19:56:57	34077.109	52.4290
20:04:37	34276.762	52.4015
20:17:27	34372.090	52.3457
20:25:37	34526.488	52.3204
20:42:37	34684.113	52.2482
20:55:17	34565.184	52.1963
21:15:17	34414.000	52.1807
21:35:17	34308.848	52.2084
21:55:17	34305.711	52.2878
22:15:17	34281.199	52.3242
22:35:17	34292.941	52.3490
22:55:17	34268.680	52.3727
23:15:17	34277.379	52.3958
23:35:17	34258.918	52.4155
23:55:17	34204.820	52.4325
Wed Apr 19, 1995		
00:15:17	34134.094	52.4618
00:35:17	34058.246	52.5039
00:55:17	33998.945	52.5380
01:09:47	33881.457	52.5524
01:18:17	33964.805	52.5547
01:36:17	34004.148	52.6061
01:55:47	33999.129	52.6032
02:11:57	33947.113	52.6107
02:27:17	33855.059	52.6214
02:47:17	33866.461	52.6447
03:07:17	33840.445	52.6747
03:25:37	33725.582	52.6955
03:29:17	33419.055	52.6992
03:32:37	33202.094	52.6992
03:36:17	33020.215	52.7019
03:39:37	32825.164	52.7041
03:44:37	32580.424	52.7336
03:48:17	32372.527	52.8004
03:51:47	32123.029	52.8467
03:56:57	31919.068	52.8890
04:02:57	32088.338	52.9296
04:08:17	31897.449	52.9834
04:17:47	31805.951	53.0247
04:25:27	31538.695	53.0390
04:30:57	31356.812	53.0477
04:40:17	31182.801	53.0902
04:54:17	31113.812	53.2055
05:05:17	31068.729	53.2486
05:17:17	31081.891	53.2846

Time	Pressure (kPag)	Temperature (degrees C)	Time	Pressure (kPag)	Temperature (degrees C)
Wed Apr 19, 1995			14:22:17	26754.516	53.9270
05:30:17	31098.855	53.3063	14:42:17	26739.605	53.9411
05:47:17	30997.969	53.3226	15:02:17	26868.459	53.9645
06:01:27	30788.123	53.3285	15:22:17	26968.834	53.9643
06:18:17	30912.711	53.3789	15:42:17	26964.467	53.9549
06:34:17	30798.008	53.3711	16:02:17	26945.018	53.9527
06:54:17	30769.111	53.3884	16:22:17	26851.033	53.9514
07:07:37	30655.043	53.3953	16:41:17	26858.686	53.9675
07:25:17	30648.027	53.3878	16:59:17	26769.285	53.9584
07:36:07	30479.449	53.4048	17:17:37	26851.436	53.9838
07:54:17	30443.873	53.4488	17:30:27	27021.699	54.0012
08:07:47	30269.885	53.4532	17:37:07	26778.863	53.9888
08:23:27	30147.020	53.4521	17:42:27	26578.791	53.9557
08:40:17	30203.984	53.4664	17:56:17	26430.664	53.9539
08:57:17	30157.232	53.4864	18:12:27	26311.496	53.9871
09:03:17	29957.691	53.4781	18:32:17	26357.441	53.9968
09:15:17	29791.969	53.4671	18:52:17	26441.998	53.9970
09:21:27	29533.301	53.4874	19:12:17	26352.387	53.9849
09:25:07	29279.586	53.4997	19:32:17	26349.047	53.9926
09:28:27	29046.504	53.5199	19:46:07	26499.904	54.0107
09:32:07	28799.639	53.5251	20:00:17	26623.662	54.0137
09:37:47	28601.934	53.5515	20:05:07	26470.879	54.0099
09:44:17	28522.428	53.6103	20:09:47	26407.615	53.9935
09:52:37	28336.260	53.6709	20:16:07	26394.564	53.9810
09:56:07	28053.062	53.6788	20:24:17	26278.938	53.9862
10:06:27	28140.189	53.7218	20:30:37	26185.143	53.9881
10:16:57	28051.080	53.7608	20:35:37	26046.232	53.9873
10:25:07	27957.814	53.7692	20:40:27	25970.611	53.9783
10:34:17	27939.545	53.8093	20:53:37	25915.037	53.9994
10:42:57	27644.775	53.8291	20:59:27	25863.678	54.0063
10:55:17	27507.879	53.8564	21:05:47	25810.611	54.0067
11:12:17	27411.838	53.9720	21:11:47	25851.172	54.0131
11:19:07	27537.727	53.9935	21:17:17	25800.949	54.0186
11:23:07	27727.102	54.0041	21:21:37	25730.367	54.0173
11:29:27	27962.068	54.0159	21:27:37	25759.061	54.0146
11:39:07	28136.811	53.9960	21:32:27	25690.064	54.0170
11:54:27	28065.430	53.9131	21:37:17	25696.879	54.0168
12:04:47	27898.488	53.8899	21:43:07	25668.465	54.0207
12:22:17	27891.480	53.9404	21:47:27	25603.592	54.0245
12:40:07	27814.779	53.9788	21:57:07	25773.875	54.0371
12:49:47	27762.117	53.9618	22:17:17	25822.631	54.0262
13:01:37	27608.979	53.8249	22:37:17	25811.051	54.0233
13:14:37	27480.754	53.8577	22:57:17	25782.123	54.0223
13:20:07	27286.301	53.8612	23:13:37	25776.812	54.0231
13:26:27	27076.512	53.8588	23:19:27	25611.141	54.0241
13:32:47	26881.354	53.8673	23:23:37	25512.893	54.0158
13:44:57	26749.281	53.8901	23:29:07	25409.756	54.0089
14:02:17	26821.721	53.9386	23:37:17	25381.596	54.0152

Time	Pressure (kPag)	Temperature (degrees C)	Time	Pressure (kPag)	Temperature (degrees C)
Wed Apr 19, 1995			07:34:17	25577.834	54.0617
23:50:57	25352.711	54.0346	07:54:17	25499.043	54.0530
23:56:27	25303.740	54.0364	08:14:17	25420.707	54.0655
Thu Apr 20, 1995			08:34:17	25434.814	54.0873
00:03:17	25232.770	54.0334	08:49:17	25492.555	54.0950
00:09:47	25217.957	54.0401	09:00:17	25578.211	54.1033
00:14:47	25173.162	54.0397	09:19:17	25630.465	54.0909
00:23:57	25169.047	54.0409	09:39:17	25584.855	54.0744
00:35:47	25094.098	54.0462	09:59:17	25564.857	54.0780
00:42:27	25053.604	54.0450	10:19:17	25502.062	54.0784
00:51:27	25031.377	54.0498	10:39:17	25438.871	54.0807
00:57:07	25004.295	54.0585	10:59:17	25423.998	54.0862
01:03:57	25022.340	54.0617	11:19:17	25408.822	54.0878
01:10:27	25000.693	54.0628	11:39:17	25395.229	54.0868
01:15:57	24956.137	54.0649	11:59:17	25397.484	54.0920
01:22:47	24922.730	54.0697	12:19:17	25387.143	54.0955
01:30:17	24940.146	54.0678	12:39:17	25394.609	54.0971
01:40:27	24974.102	54.0786	12:59:17	25396.740	54.0945
01:45:27	24924.244	54.0794	13:19:17	25395.250	54.0932
01:51:37	24910.953	54.0766	13:39:17	25386.898	54.0902
01:59:27	24898.062	54.0783	13:59:17	25387.971	54.0907
02:05:57	24962.404	54.0852	14:19:17	25377.662	54.0887
02:11:47	24932.846	54.0874	14:39:17	25367.434	54.0872
02:17:47	24888.070	54.0911	14:59:17	25350.748	54.0847
02:24:37	24920.611	54.0897	15:19:17	25316.131	54.0825
02:32:07	24930.686	54.0912	15:39:17	25299.156	54.0851
02:40:17	24912.607	54.0860	15:59:17	25300.881	54.0859
02:47:17	24917.645	54.0939	16:19:17	25302.584	54.0843
02:51:47	24874.695	54.0935	16:39:17	25303.109	54.0835
02:56:37	24833.289	54.0910	16:59:17	25305.973	54.0835
03:01:27	24830.236	54.0897	17:19:17	25292.844	54.0815
03:08:17	24892.170	54.0913	17:39:17	25313.805	54.0844
03:14:47	24890.537	54.1004	17:59:17	25295.699	54.0816
03:20:57	24927.049	54.0998	18:19:17	25288.598	54.0833
03:25:07	25069.830	54.0984	18:39:17	25265.475	54.0794
03:31:07	25124.391	54.1137	18:59:17	25260.551	54.0821
03:38:07	25174.006	54.1109	19:19:17	25272.555	54.0838
03:56:17	25315.035	54.0938	19:39:17	25282.686	54.0811
04:16:17	25394.541	54.0864	19:59:17	25286.902	54.0773
04:36:17	25422.924	54.0834	**2 - Final Flow**		
04:55:17	25477.482	54.0820	20:01:17	25286.299	54.0760
05:15:17	25555.699	54.0827	20:05:07	26092.668	54.0962
05:35:17	25619.465	54.0747	20:08:27	26474.299	54.1426
05:55:17	25655.992	54.0721	20:11:47	26728.559	54.1844
06:15:17	25666.389	54.0706	20:15:07	26929.434	54.2135
06:35:17	25692.779	54.0697	20:19:37	27130.541	54.2373
06:55:17	25660.967	54.0633	20:26:17	27358.352	54.2577
07:15:17	25667.363	54.0628			

Time	Pressure (kPag)	Temperature (degrees C)
Thu Apr 20, 1995		
Maximum Recorded Temperature		
20:30:57	27489.303	54.2617
20:32:57	27541.520	54.2581
20:39:37	27714.412	54.2246
20:47:47	27887.070	54.1204
20:57:27	28053.387	53.9709
21:07:27	28208.895	53.8494
21:18:07	28358.818	53.7464
21:34:17	28515.482	53.6003
21:51:57	28674.029	53.4464
22:08:37	28824.723	53.3210
22:28:17	28971.598	53.1967
22:48:17	29110.365	53.0886
23:08:17	29237.393	52.9904
23:28:17	29353.352	52.9085
23:48:17	29461.172	52.8355
Fri Apr 21, 1995		
00:08:17	29564.092	52.7669
00:28:17	29665.566	52.7067
00:48:17	29761.340	52.6475
01:08:17	29853.496	52.5960
01:28:17	29937.520	52.5502
01:48:17	30015.658	52.5049
02:08:17	30091.746	52.4651
02:28:17	30166.160	52.4288
02:48:17	30248.312	52.4015
03:08:17	30316.023	52.3641
03:28:17	30381.117	52.3325
03:48:17	30440.406	52.2924
04:08:17	30492.877	52.2537
04:28:17	30540.666	52.2152
04:48:17	30547.322	52.1616
05:08:17	30590.266	52.1469
05:28:17	30653.494	52.1316
05:48:17	30703.768	52.1044
06:08:17	30750.922	52.0772
06:28:17	30794.102	52.0506
06:48:17	30832.711	52.0230
07:08:17	30860.283	51.9950
07:28:17	30870.143	51.9777
07:48:17	30874.291	51.9613
08:08:17	30882.678	51.9350
08:28:17	30898.793	51.9177
08:48:17	30914.154	51.9012
09:08:17	30927.467	51.8836
09:28:17	30942.004	51.8671
09:48:17	30955.189	51.8499
10:08:17	30968.703	51.8326
10:28:17	30982.102	51.8155
10:48:17	30993.094	51.7988
11:08:17	31005.160	51.7816
11:28:17	31015.391	51.7636
11:48:17	31025.084	51.7466
12:08:17	31034.199	51.7292
12:28:17	31041.967	51.7168
12:48:17	31050.918	51.7024
13:08:17	31058.262	51.6855
13:28:17	31064.324	51.6670
13:48:17	31068.742	51.6501
14:08:17	31073.182	51.6342
14:28:17	31073.107	51.6171
14:48:17	31072.555	51.6022
15:08:17	31071.512	51.5887
15:28:17	31072.562	51.5762
15:48:17	31072.562	51.5629
16:08:17	31073.344	51.5509
16:28:17	31073.074	51.5357
16:48:17	31073.102	51.5216
17:08:17	31071.535	51.5064
17:28:17	31070.041	51.4943
17:48:17	31069.047	51.4786
18:08:17	31067.977	51.4648
18:28:17	31063.617	51.4514
18:48:17	31057.369	51.4372
19:08:17	31052.959	51.4232
19:28:17	31056.410	51.4030
19:48:17	31050.289	51.3770
3 - Final Buildup		
20:05:17	31045.266	51.3867
20:08:17	31011.441	51.4087
20:26:17	30943.797	51.2669
4 - 3362.89 mKB		
20:30:17	30953.254	51.1839
5 - 3332.89 mKB		
20:40:17	30780.871	50.8491
20:41:57	30398.172	50.8145
6 - 3272.89 mKB		
20:53:17	30430.371	50.0182
20:58:17	29856.381	49.4356
7 - 3182.89 mKB		
21:04:17	29878.086	48.8383
21:08:47	28935.891	48.2418
8 - 3062.89 mKB		
21:17:47	28973.914	47.1959
21:19:07	28034.244	47.0889

Time	Pressure (kPag)	Temperature (degrees C)
Fri Apr 21, 1995		
21:24:07	26627.148	45.1112
9 - 2762.89 mKB		
21:31:07	26667.912	43.3312
21:31:37	26422.529	43.2725
21:36:17	25052.039	41.3554
10 - 2462.89 mKB		
21:43:47	25091.662	38.9126
21:44:07	25039.869	38.8613
21:49:17	23482.486	36.5542
11 - 2162.89 mKB		
21:56:17	23429.301	34.2198
21:56:37	23199.016	34.1637
22:01:07	21800.547	32.2252
12 - 1862.89 mKB		
22:08:17	21833.863	29.9837
22:09:17	21439.479	29.8474
22:14:17	20066.826	27.9021
13 - 1562.89 mKB		
22:22:27	20105.277	25.9159
22:23:27	19467.324	25.8217
22:28:57	18305.018	23.7873
14 - 1262.89 mKB		
22:34:27	18332.705	22.3896
22:36:17	16695.855	21.9698
22:43:57	16517.889	18.8445
15 - 962.89 mKB		
22:46:37	16532.615	18.4280
22:50:27	14617.578	17.5291
16 - 662.89 mKB		
22:57:57	14658.636	15.0515
22:59:37	14076.248	14.7144
23:06:27	13367.706	12.0722
17 - 362.89 mKB		
23:10:47	13387.412	11.2460
23:13:27	12832.327	10.7295
18 - -0.11 mKB		
23:24:17	12845.122	8.0557
23:25:07	91.357	7.9210
23:38:17	14.970	3.7989

ISO 9002
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Z.I. Probes Pressure Test Report

COMPANY INFORMATION

Company Name	Hunt Oil Company
Representative	
Phone	(403) 269-3400
Address	1450, 801 - 6th Avenue S.W. Calgary, AB T2P 3W2
Service Company	Solid Resources Ltd.

WELL INFORMATION

Well Name	Hunt Oil - Port au Port 1
Well Location	Port au Port, NFLD
Field and pool	N/A
Status (oil, gas, water, injection)	Gas
Perforated Intervals	N/A
Mid point of Perforated Intervals (MPP)	N/A
Drilling Rig Number	
Elevations	
Kelly Bushing (KB)	N/A
Casing Flange (CF)	N/A
KB-CF	N/A
Ground Level (GL)	N/A
Plug back total depth	N/A
Total depth	N/A
Production Casing	N/A
Production Tubing	N/A

TEST INFORMATION

Test number / Type of test	Buildup / Static Gradient
Date(s) of test	Apr. 22 - 23/95
Dead-weight gauge tubing pressure	N/A
Dead-weight gauge casing pressure	14348 kPa, 04/23/95
Shut-in date (duration)	Apr. 20/95 (3 days)
Date/time on bottom	Apr. 22/95 @ 05:40
Date/time off bottom	Apr. 23/95 @ 06:11
Run depth at probe pressure port	3380.81 mKB

PRESSURE TEST RESULTS

Maximum recorded probe pressure	32476.06 kPag
Maximum recorded probe temperature	50.73 Degrees C
Final buildup pressure	32449.60 kPag
Gradient Survey Information	Gradient ran following buildup.
Extrapolated pressure to MPP	32394.52 kPag
Final gradient at depth	5.194 kPa/m
Z.I. Probes Job Number	N/A
Probe Serial Number	M47

PROBE INFORMATION

Probe Serial Number	M47
Model	Level II
Pressure	
Calibrated Pressure Range	0.0 - 68948.0 kPag (0 - 10000 psi)
Accuracy	0.05% FS
Resolution	0.0015% FS
Temperature	
Calibrated Temperature Range	22.6 - 124.6 Degrees C
Accuracy	0.25% FS
Resolution	0.002% FS
Calibration file used for reports	M47MR22A.CAL

PROGRAMMING DETAILS

Sequence Step	Sampling Mode	Sample Period	Repetitions of step Count
1	Pause	5 seconds	6 (test mode)
2	Delta Pressure On	10 seconds	5 count / 0.5 psi
3	Normal	1 minute	20160 (14 days)
4	Delta Pressure Off		
5	Overrun	1 minute	to end of memory

Program start time	Apr. 22/95 @ 05:10:00
Program end time	Apr. 23/95 @ 09:38:00
Total Samples Taken	2148
Usage for this test	0.2433 Ah
Generic Data File Name	M47AP23A.GEN
Reported by	Bruce Peterson

COMMENTS

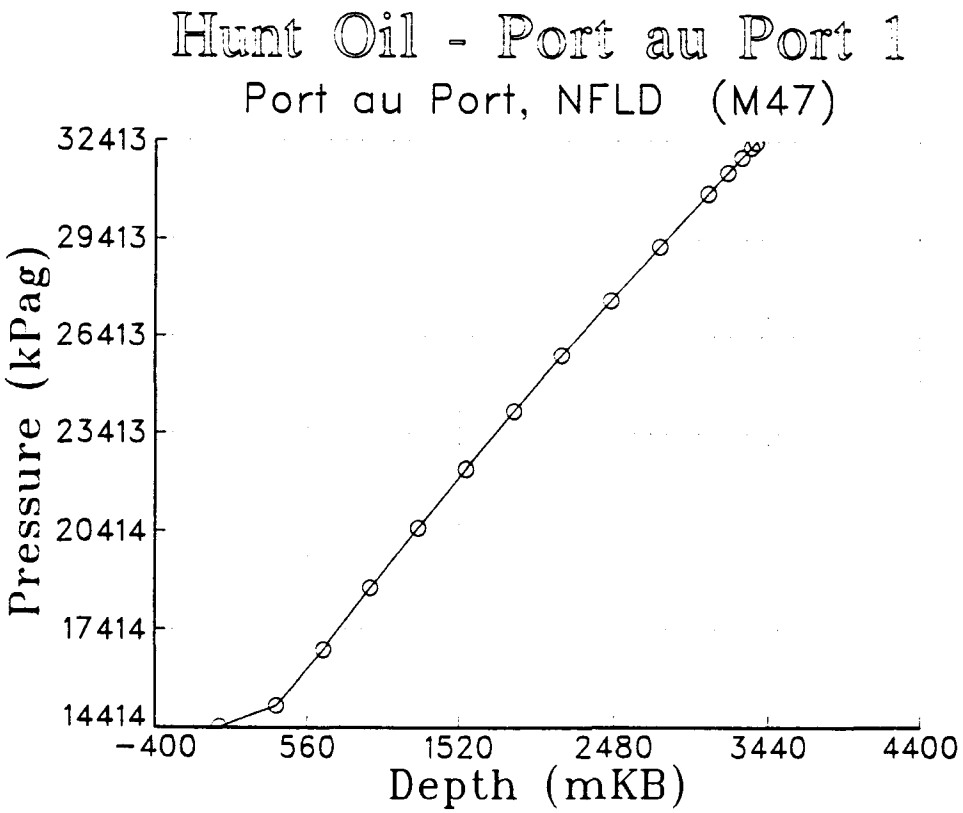
Probes M47 and N12 were used on this test and maintained Level II accuracy throughout. The data from both probes is recommended for reservoir analysis.

Pressure vs. Depth

Probe	M47
Company	Hunt Oil Company
Well Name	Hunt Oil - Port au Port 1
Well Location	Port au Port, NFLD
Field and Pool	N/A
Date of Test	April 23/95

Stop Time From	To	Depth (mKB)	Pressure (kPag)	Gradient (kPa/m)
06:11	06:21	3361.810	32388.334	5.1943
06:22	06:32	3331.810	32232.504	5.1943
06:32	06:42	3271.810	31920.604	5.1983
06:44	06:54	3181.810	31449.359	5.2360
06:55	07:05	3061.810	30810.197	5.3264
07:08	07:18	2761.810	29174.369	5.4528
07:21	07:31	2461.810	27509.852	5.5484
07:33	07:43	2161.810	25814.775	5.6503
07:46	07:56	1861.810	24090.514	5.7475
07:58	08:08	1561.810	22315.635	5.9163
08:10	08:20	1261.810	20516.068	5.9986
08:22	08:32	961.810	18686.941	6.0971
08:35	08:45	661.810	16787.781	6.3305
08:47	08:57	361.810	15078.441	5.6978
09:00	09:10	-1.190	14413.314	1.8323

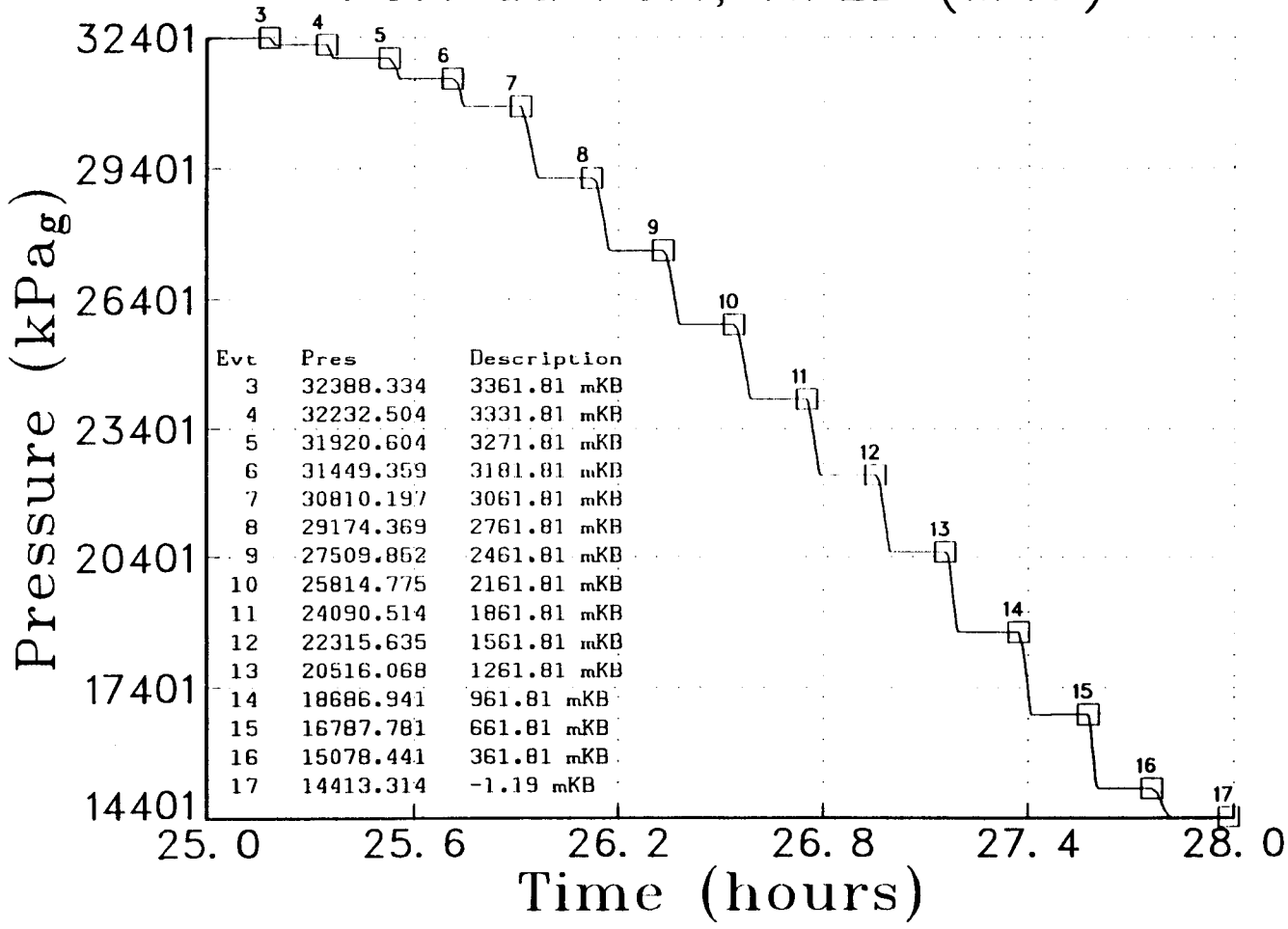
MPP Pressure extrapolated using a least-squares fit:
3363.000 32394.515



ZIPGRAPH 3.1b6 for Z.I. Probes, Edmonton Apr. 25, 1995 11:11:24

Hunt Oil - Port au Port 1

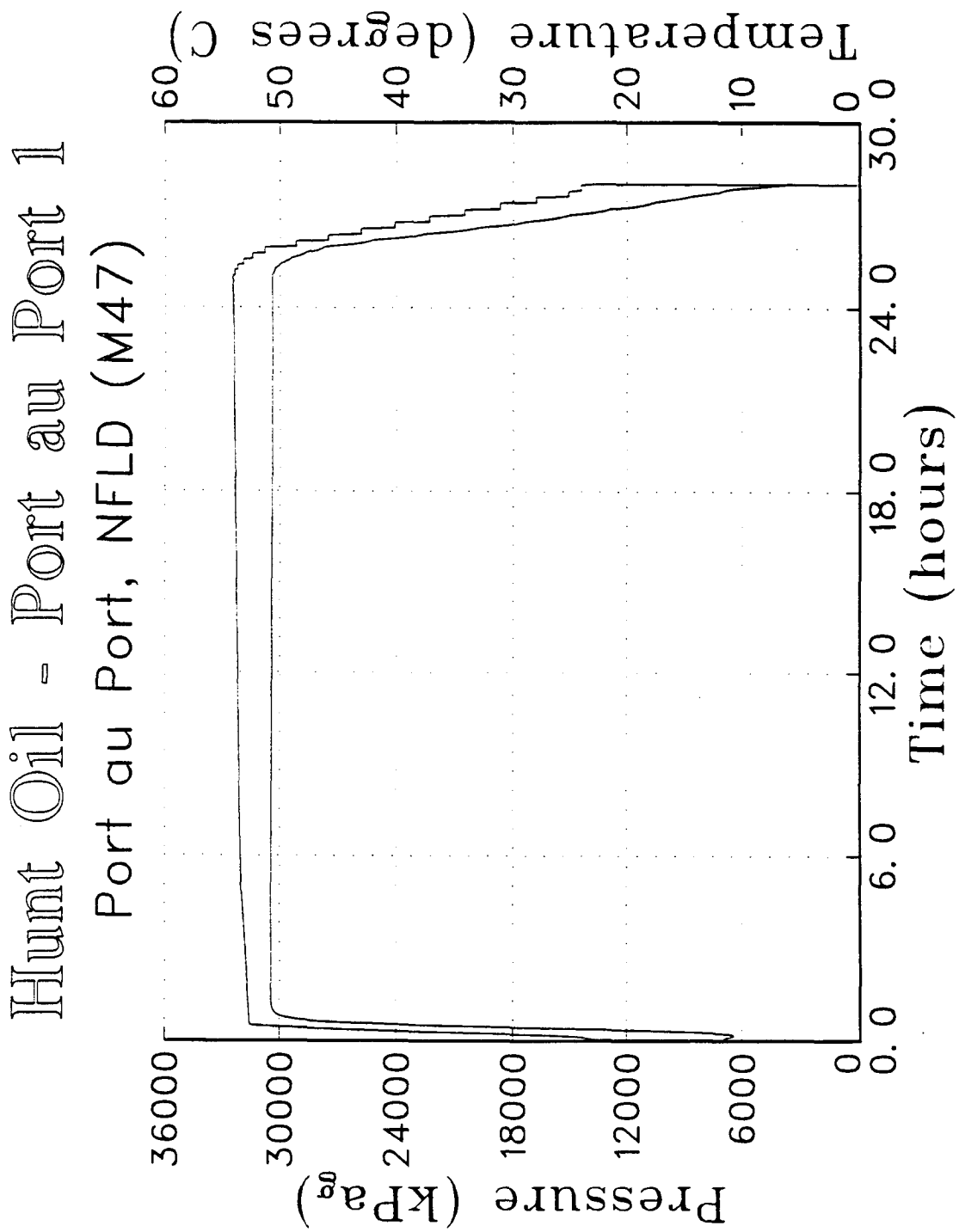
Port au Port, NFLD (M47)



Evt	Pres	Description
3	32388.334	3361.81 mKB
4	32232.504	3331.81 mKB
5	31920.604	3271.81 mKB
6	31449.359	3181.81 mKB
7	30810.197	3061.81 mKB
8	29174.369	2761.81 mKB
9	27509.862	2461.81 mKB
10	25814.775	2161.81 mKB
11	24090.514	1861.81 mKB
12	22315.635	1561.81 mKB
13	20516.068	1261.81 mKB
14	18686.941	961.81 mKB
15	16787.781	661.81 mKB
16	15078.441	361.81 mKB
17	14413.314	-1.19 mKB

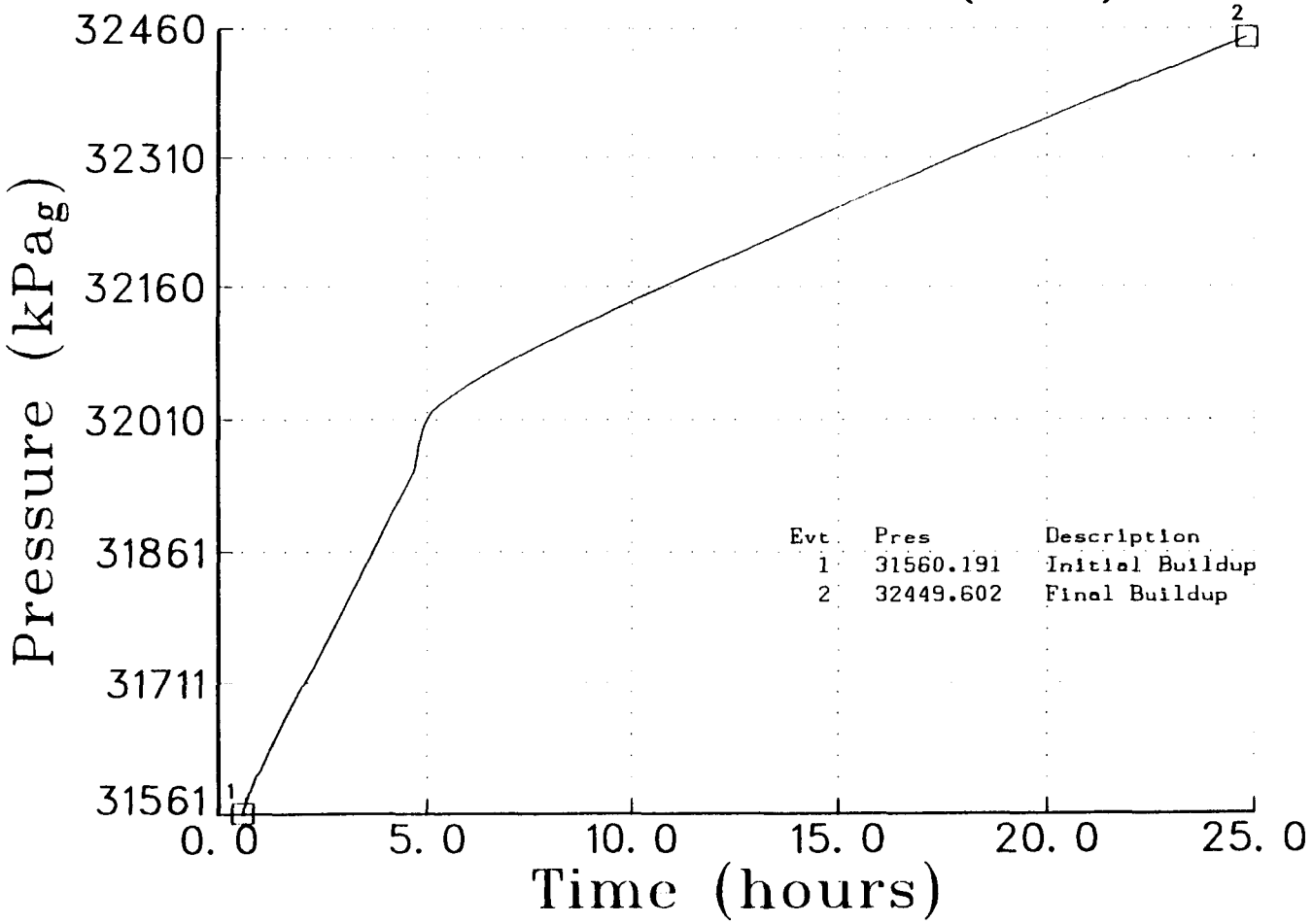
ZIPGRAPH 3.1b6 for Z.I. Probes, Edmonton Apr. 25, 1995 10:09:05

ZIPGRAPH 3. 1b6 for Z. I. Probes, Edmonton Apr. 25, 1995 09:32:59



Hunt Oil - Port au Port 1

Port au Port, NFLD (M47)



ZIPGRAPH 3.1b6 for Z.I. Probes, Edmonton Apr. 25, 1995 09:48:42

Data Listing: Every 6th point of the generic data file.

Probe Number: M47
Company: Hunt Oil Company
Well: Hunt Oil - Port au Port 1
Location: Port au Port, NFLD
Field: N/A
Test Date(s): Apr. 22 - 23/95

Time	Pressure (kPag)	Temperature (degrees C)	Time	Pressure (kPag)	Temperature (degrees C)
Sat Apr 22, 1995			05:53:30	31584.945	49.5984
05:10:00	6.511	11.2842	06:00:00	31597.314	50.2700
05:12:00	13782.641	11.4197	06:06:00	31604.590	50.5135
05:13:00	13918.664	11.4920	06:12:00	31614.164	50.6165
05:14:00	14106.714	11.3191	06:18:00	31624.527	50.6607
05:15:00	14269.304	11.0376	06:24:00	31634.744	50.6821
05:16:00	14459.524	10.8408	06:30:00	31644.588	50.6943
05:17:00	14868.575	10.7045	06:36:00	31654.389	50.7006
05:18:00	15359.216	10.6959	06:42:00	31663.451	50.7040
05:19:00	15937.595	10.7588	06:48:00	31673.229	50.7071
05:20:00	16647.693	10.9168	06:54:00	31682.482	50.7092
05:21:00	17516.977	11.3321	07:00:00	31691.857	50.7099
05:22:00	18422.555	11.8687	07:06:00	31701.150	50.7119
05:23:00	19364.340	12.6158	07:12:00	31708.445	50.7123
05:24:00	20395.139	13.4462	07:18:00	31717.395	50.7134
05:25:00	21348.125	14.4898	07:24:00	31726.309	50.7142
05:26:00	22432.736	15.7427	07:30:00	31735.758	50.7152
05:27:00	23466.408	17.1266	07:36:00	31745.113	50.7156
05:28:00	24480.586	18.6523	07:42:00	31754.645	50.7165
05:29:00	25442.645	20.2949	07:48:00	31763.854	50.7163
05:30:00	26363.287	22.1008	07:54:00	31773.223	50.7181
05:31:00	26993.533	24.0337	08:00:00	31782.281	50.7175
05:32:00	27641.016	26.0496	08:06:00	31791.715	50.7180
05:33:00	28335.307	28.0750	08:12:00	31800.838	50.7204
05:34:00	29031.277	30.0735	08:18:00	31810.164	50.7196
05:35:00	29684.309	32.0293	08:24:00	31818.705	50.7192
05:36:00	30258.463	33.9384	08:30:00	31827.787	50.7197
05:37:00	30802.572	35.7851	08:36:00	31837.588	50.7216
05:38:00	31272.430	37.5807	08:42:00	31846.633	50.7217
05:39:30	31533.777	40.1504	08:48:00	31855.855	50.7207
05:40:40	31543.518	41.9546	08:54:00	31865.309	50.7221
05:42:00	31567.105	43.7342	09:00:00	31874.348	50.7208
05:43:10	31562.777	45.0183	09:06:00	31883.535	50.7219
1 - Initial Buildup			09:12:00	31892.932	50.7218
05:44:00	31560.191	45.7804	09:18:00	31902.502	50.7228
05:44:20	31562.686	46.0505	09:24:00	31911.029	50.7214
05:45:20	31561.656	46.7674	09:30:00	31920.035	50.7216
05:47:30	31569.932	47.9336	09:36:00	31929.336	50.7217
05:49:40	31576.869	48.7333	09:42:00	31938.523	50.7218

Time	Pressure (kPag)	Temperature (degrees C)	Time	Pressure (kPag)	Temperature (degrees C)
Sat Apr 22, 1995			14:24:00	32126.682	50.6790
09:48:00	31947.920	50.7220	14:30:00	32129.369	50.6804
09:54:00	31963.871	50.7217	14:36:00	32131.322	50.6781
10:00:00	31989.271	50.7227	14:42:00	32133.580	50.6764
10:06:00	32004.859	50.7265	14:48:00	32135.719	50.6757
Maximum Recorded Temperature			14:54:00	32137.520	50.6755
10:12:00	32013.555	50.7289	15:00:00	32139.707	50.6765
10:18:00	32019.936	50.7263	15:06:00	32142.107	50.6749
10:24:00	32023.811	50.7257	15:12:00	32144.617	50.6735
10:30:00	32027.816	50.7232	15:18:00	32146.693	50.6730
10:36:00	32031.250	50.7215	15:24:00	32148.225	50.6721
10:42:00	32034.404	50.7206	15:30:00	32150.916	50.6718
10:48:00	32038.057	50.7189	15:36:00	32152.936	50.6710
10:54:00	32040.820	50.7151	15:42:00	32155.057	50.6704
11:00:00	32044.225	50.7158	15:48:00	32157.020	50.6692
11:06:00	32047.383	50.7146	15:54:00	32159.309	50.6689
11:12:00	32049.945	50.7129	16:00:00	32161.381	50.6676
11:18:00	32052.752	50.7121	16:06:00	32163.867	50.6684
11:24:00	32055.502	50.7101	16:12:00	32165.883	50.6679
11:30:00	32058.213	50.7093	16:18:00	32168.064	50.6669
11:36:00	32060.963	50.7087	16:24:00	32170.125	50.6660
11:42:00	32063.945	50.7087	16:30:00	32172.656	50.6664
11:48:00	32066.270	50.7060	16:36:00	32174.805	50.6660
11:54:00	32069.154	50.7062	16:42:00	32176.865	50.6650
12:00:00	32071.373	50.7046	16:48:00	32179.016	50.6656
12:06:00	32073.820	50.7017	16:54:00	32181.193	50.6648
12:12:00	32076.434	50.7000	17:00:00	32183.203	50.6648
12:18:00	32078.713	50.6984	17:06:00	32185.287	50.6639
12:24:00	32080.887	50.6967	17:12:00	32187.170	50.6641
12:30:00	32083.357	50.6974	17:18:00	32189.658	50.6632
12:36:00	32086.012	50.6970	17:24:00	32191.270	50.6623
12:42:00	32088.367	50.6958	17:30:00	32193.139	50.6622
12:48:00	32090.799	50.6952	17:36:00	32195.121	50.6620
12:54:00	32092.943	50.6950	17:42:00	32196.883	50.6609
13:00:00	32095.611	50.6923	17:48:00	32199.400	50.6616
13:06:00	32097.555	50.6926	17:54:00	32201.475	50.6596
13:12:00	32099.342	50.6898	18:00:00	32203.672	50.6611
13:18:00	32102.150	50.6891	18:06:00	32205.854	50.6594
13:24:00	32104.285	50.6898	18:12:00	32208.215	50.6591
13:30:00	32106.578	50.6876	18:18:00	32210.197	50.6587
13:36:00	32109.189	50.6865	18:24:00	32212.348	50.6587
13:42:00	32111.207	50.6858	18:30:00	32214.846	50.6581
13:48:00	32113.697	50.6844	18:36:00	32216.830	50.6578
13:54:00	32115.445	50.6827	18:42:00	32219.246	50.6567
14:00:00	32118.115	50.6853	18:48:00	32221.283	50.6567
14:06:00	32120.236	50.6825	18:54:00	32223.912	50.6550
14:12:00	32122.312	50.6810	19:00:00	32226.252	50.6567
14:18:00	32124.477	50.6804	19:06:00	32228.555	50.6560

Time	Pressure (kPag)	Temperature (degrees C)	Time	Pressure (kPag)	Temperature (degrees C)
Sat Apr 22, 1995			23:54:00	32330.814	50.6380
19:12:00	32230.586	50.6546	Sun Apr 23, 1995		
19:18:00	32232.867	50.6544	00:00:00	32332.395	50.6357
19:24:00	32235.303	50.6550	00:06:00	32334.531	50.6356
19:30:00	32237.238	50.6535	00:12:00	32336.564	50.6382
19:36:00	32239.840	50.6536	00:18:00	32338.670	50.6375
19:42:00	32241.510	50.6527	00:24:00	32340.645	50.6362
19:48:00	32244.072	50.6528	00:30:00	32342.746	50.6363
19:54:00	32246.273	50.6536	00:36:00	32344.314	50.6342
20:00:00	32248.465	50.6514	00:42:00	32346.750	50.6366
20:06:00	32250.586	50.6518	00:48:00	32348.639	50.6351
20:12:00	32252.871	50.6518	00:54:00	32350.883	50.6362
20:18:00	32254.838	50.6500	01:00:00	32352.217	50.6344
20:24:00	32256.842	50.6491	01:06:00	32354.791	50.6350
20:30:00	32259.434	50.6493	01:12:00	32356.566	50.6347
20:36:00	32261.205	50.6490	01:18:00	32358.678	50.6351
20:42:00	32263.629	50.6500	01:24:00	32360.424	50.6340
20:48:00	32265.812	50.6488	01:30:00	32362.857	50.6332
20:54:00	32268.035	50.6488	01:36:00	32365.023	50.6329
21:00:00	32269.883	50.6484	01:42:00	32366.895	50.6316
21:06:00	32272.166	50.6474	01:48:00	32368.689	50.6324
21:12:00	32274.549	50.6484	01:54:00	32370.742	50.6306
21:18:00	32276.283	50.6457	02:00:00	32372.918	50.6323
21:24:00	32278.725	50.6463	02:06:00	32374.932	50.6316
21:30:00	32280.875	50.6474	02:12:00	32376.775	50.6319
21:36:00	32282.941	50.6450	02:18:00	32378.600	50.6320
21:42:00	32284.600	50.6445	02:24:00	32380.463	50.6314
21:48:00	32286.768	50.6455	02:30:00	32382.371	50.6318
21:54:00	32288.932	50.6451	02:36:00	32384.326	50.6310
22:00:00	32290.447	50.6429	02:42:00	32386.115	50.6306
22:06:00	32292.797	50.6439	02:48:00	32388.074	50.6329
22:12:00	32295.297	50.6428	02:54:00	32390.246	50.6305
22:18:00	32297.014	50.6412	03:00:00	32392.215	50.6307
22:24:00	32299.357	50.6414	03:06:00	32394.521	50.6302
22:30:00	32301.455	50.6419	03:12:00	32396.652	50.6297
22:36:00	32303.666	50.6427	03:18:00	32398.156	50.6295
22:42:00	32306.074	50.6413	03:24:00	32399.799	50.6287
22:48:00	32307.990	50.6403	03:30:00	32402.137	50.6292
22:54:00	32310.391	50.6418	03:36:00	32404.045	50.6284
23:00:00	32312.346	50.6421	03:42:00	32406.078	50.6277
23:06:00	32314.258	50.6401	03:48:00	32407.930	50.6284
23:12:00	32316.318	50.6402	03:54:00	32409.879	50.6265
23:18:00	32318.779	50.6402	04:00:00	32411.787	50.6268
23:24:00	32320.523	50.6393	04:06:00	32414.090	50.6275
23:30:00	32322.785	50.6381	04:12:00	32414.875	50.6282
23:36:00	32324.742	50.6383	04:18:00	32416.639	50.6282
23:42:00	32326.684	50.6378	04:24:00	32418.838	50.6258
23:48:00	32328.766	50.6390	04:30:00	32420.941	50.6248

Time	Pressure (kPag)	Temperature (degrees C)
Sun Apr 23, 1995		
04:36:00	32422.658	50.6260
04:42:00	32424.838	50.6262
04:48:00	32426.422	50.6243
04:54:00	32428.695	50.6256
05:00:00	32430.490	50.6253
05:06:00	32432.668	50.6254
05:12:00	32434.734	50.6260
05:18:00	32436.650	50.6250
05:24:00	32438.926	50.6257
05:30:00	32440.293	50.6239
05:36:00	32442.418	50.6245
05:42:00	32444.195	50.6235
05:48:00	32446.057	50.6228
05:54:00	32448.238	50.6235
2 - Final Buildup		
05:59:00	32449.602	50.6232
06:00:00	32401.766	50.6221
06:05:00	32452.039	50.6297
Maximum Recorded Pressure		
06:08:00	32476.062	50.6298
06:10:10	32415.902	50.6283
06:12:50	32358.801	50.6255
06:18:00	32383.148	50.5106
3 - 3361.81 mKB		
06:23:00	32388.334	50.4351
06:24:00	32225.822	50.4307
06:30:00	32231.279	50.1262
4 - 3331.81 mKB		
06:33:00	32232.504	49.9977
06:36:00	31917.895	49.7831
06:42:00	31919.551	49.2297
5 - 3271.81 mKB		
06:44:00	31920.604	49.0940
06:45:30	31508.889	49.0125
06:49:00	31447.516	48.5005
6 - 3181.81 mKB		
06:55:00	31449.359	47.8616
06:56:50	30856.357	47.7273
06:59:40	30808.549	47.1903
07:04:00	30809.006	46.4992
7 - 3061.81 mKB		
07:07:00	30810.197	46.1967
07:08:20	30198.457	46.0719
07:09:20	29574.539	45.8824
07:10:30	29172.201	45.4354
07:12:30	29172.234	44.3854
07:14:30	29171.713	43.5630
07:17:10	29173.289	42.7985
8 - 2761.81 mKB		
07:19:30	29174.369	42.3404
07:20:30	28978.350	42.1859
07:21:30	28325.543	42.0332
07:22:30	27559.492	41.7485
07:24:30	27507.092	40.6407
07:26:30	27507.506	39.6486
07:28:30	27507.824	38.8998
07:31:30	27509.918	38.0951
9 - 2461.81 mKB		
07:32:10	27509.852	37.9550
07:33:30	26934.715	37.6938
07:34:30	26191.234	37.4292
07:36:10	25812.844	36.5894
07:38:10	25811.400	35.4653
07:40:10	25813.656	34.6022
07:43:00	25814.053	33.7213
10 - 2161.81 mKB		
07:44:40	25814.775	33.3379
07:45:40	25484.129	33.1419
07:46:40	24760.072	32.9280
07:47:40	24090.055	32.5730
07:49:50	24087.227	31.4543
07:51:50	24088.178	30.6044
07:54:50	24089.723	29.7003
11 - 1861.81 mKB		
07:57:30	24090.514	29.1393
07:57:50	23907.252	29.0815
07:58:50	23077.055	28.9028
08:00:00	22307.846	28.5221
08:02:00	22311.582	27.5767
08:04:30	22312.602	26.6199
08:08:00	22313.730	25.7108
12 - 1561.81 mKB		
08:09:30	22315.635	25.4278
08:10:40	21715.691	25.2382
08:11:40	20824.451	25.0297
08:13:30	20512.527	24.2680
08:15:50	20512.629	23.2558
08:19:00	20515.154	22.2882
13 - 1261.81 mKB		
08:21:50	20516.068	21.6856
08:22:30	20272.010	21.5714
08:23:30	19146.076	21.3725
08:25:40	18682.717	20.4221
08:28:20	18684.807	19.3090
08:32:10	18685.887	18.2746

Time	Pressure (kPag)	Temperature (degrees C)
Sun Apr 23, 1995		
14 - 961.81 mKB		
08:34:40	18686.941	17.9641
08:35:20	18315.777	17.7351
08:36:20	17323.238	17.5915
08:38:10	16780.301	17.1337
08:41:10	16783.730	16.1047
08:45:10	16786.455	15.0109
15 - 661.81 mKB		
08:46:50	16787.781	14.6663
08:47:30	16198.725	14.5409
08:48:30	15102.955	14.3153
08:51:30	15079.748	13.2356
08:57:00	15078.613	11.9284
16 - 361.81 mKB		
08:58:00	15078.441	11.7898
08:59:40	14756.346	11.5990
09:00:40	14491.197	11.4374
09:02:30	14401.382	10.9607
09:05:30	14404.521	9.5553
09:07:30	14407.664	8.4070
09:10:00	14410.833	7.1071
17 - -1.19 mKB		
09:11:30	14413.314	6.4327
09:12:40	13983.318	5.9522
09:13:00	123.866	5.7552

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Z.I. Probes Pressure Test Report

COMPANY INFORMATION

Company Name	Hunt Oil Company
Representative	
Phone	(403) 269-3400
Address	1450, 801 - 6th Avenue S.W. Calgary, AB T2P 3W2
Service Company	Solid Resources Ltd.

WELL INFORMATION

Well Name	Hunt Oil - Port au Port 1
Well Location	Port au Port, NFLD
Field and pool	N/A
Status (oil, gas, water, injection)	Gas
Perforated Intervals	N/A
Mid point of Perforated Intervals (MPP)	N/A
Drilling Rig Number	
Elevations	
Kelly Bushing (KB)	N/A
Casing Flange (CF)	N/A
KB-CF	N/A
Ground Level (GL)	N/A
Plug back total depth	N/A
Total depth	N/A
Production Casing	N/A
Production Tubing	N/A

TEST INFORMATION

Test number / Type of test	Buildup / Static Gradient
Date(s) of test	Apr. 22 - 23/95
Dead-weight gauge tubing pressure	N/A
Dead-weight gauge casing pressure	14348 kPa, 04/23/95
Shut-in date (duration)	Apr. 20/95 (3 days)
Date/time on bottom	Apr. 22/95 @ 05:40
Date/time off bottom	Apr. 23/95 @ 06:11
Run depth at probe pressure port	3381.89 mKB

PRESSURE TEST RESULTS

Maximum recorded probe pressure	32482.45 kPag
Maximum recorded probe temperature	51.54 Degrees C
Final buildup pressure	32453.26 kPag
Gradient Survey Information	Gradient ran following buildup.
Extrapolated pressure to MPP	32391.90 kPag
Final gradient at depth	5.176 kPa/m
Z.I. Probes Job Number	N/A
Probe Serial Number	N12

PROBE INFORMATION

Probe Serial Number	N12
Model	Level II
Pressure	
Calibrated Pressure Range	0.0 - 68948.0 kPag (0 - 10000 psi)
Accuracy	0.05% FS
Resolution	0.0015% FS
Temperature	
Calibrated Temperature Range	23.4 - 124.7 Degrees C
Accuracy	0.25% FS
Resolution	0.002% FS
Calibration file used for reports	N12MR23A.CAL

PROGRAMMING DETAILS

Sequence Step	Sampling Mode	Sample Period	Repetitions of step Count
1	Pause	5 seconds	6 (test mode)
2	Delta Pressure On	10 seconds	5 count / 0.5 psi
3	Normal	1 minute	20160 (14 days)
4	Delta Pressure Off		
5	Overrun	1 minute	to end of memory

Program start time	Apr. 22/95 @ 05:09:14
Program end time	Apr. 23/95 @ 09:31:14
Total Samples Taken	2133
Usage for this test	0.1406 Ah
Generic Data File Name	N12AP23A.GEN
Reported by	Bruce Peterson

COMMENTS

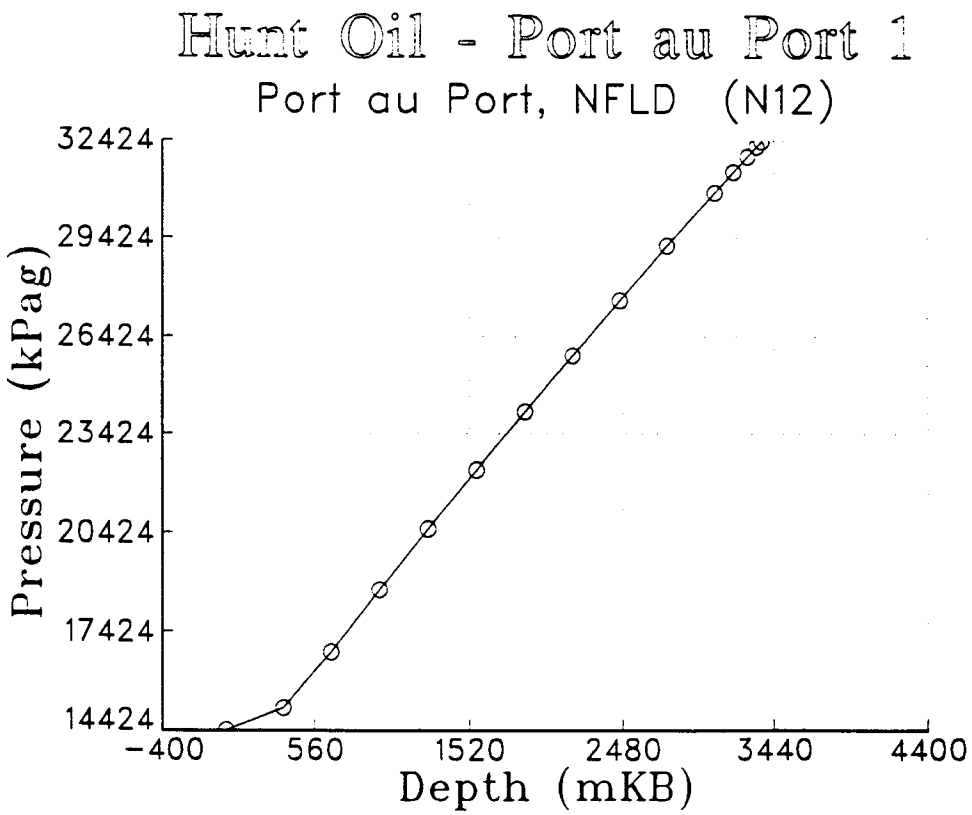
Probes M47 and N12 were used on this test and maintained Level II accuracy throughout. The data from both probes is recommended for reservoir analysis.

Pressure vs. Depth

Probe	N12
Company	Hunt Oil Company
Well Name	Hunt Oil - Port au Port 1
Well Location	Port au Port, NFLD
Field and Pool	N/A
Date of Test	April 23/95

Stop Time From	To	Depth (mKB)	Pressure (kPag)	Gradient (kPa/m)
06:11	06:21	3362.890	32391.332	5.1763
06:22	06:32	3332.890	32236.043	5.1763
06:32	06:42	3272.890	31925.938	5.1684
06:44	06:54	3182.890	31456.449	5.2165
06:55	07:05	3062.890	30819.934	5.3043
07:08	07:18	2762.890	29187.771	5.4405
07:21	07:31	2462.890	27526.176	5.5387
07:33	07:43	2162.890	25831.627	5.6485
07:46	07:56	1862.890	24104.273	5.7578
07:58	08:08	1562.890	22327.879	5.9213
08:10	08:20	1262.890	20527.490	6.0013
08:22	08:32	962.890	18698.916	6.0952
08:35	08:45	662.890	16800.566	6.3278
08:47	08:57	362.890	15093.044	5.6917
09:00	09:10	-0.110	14423.584	1.8442

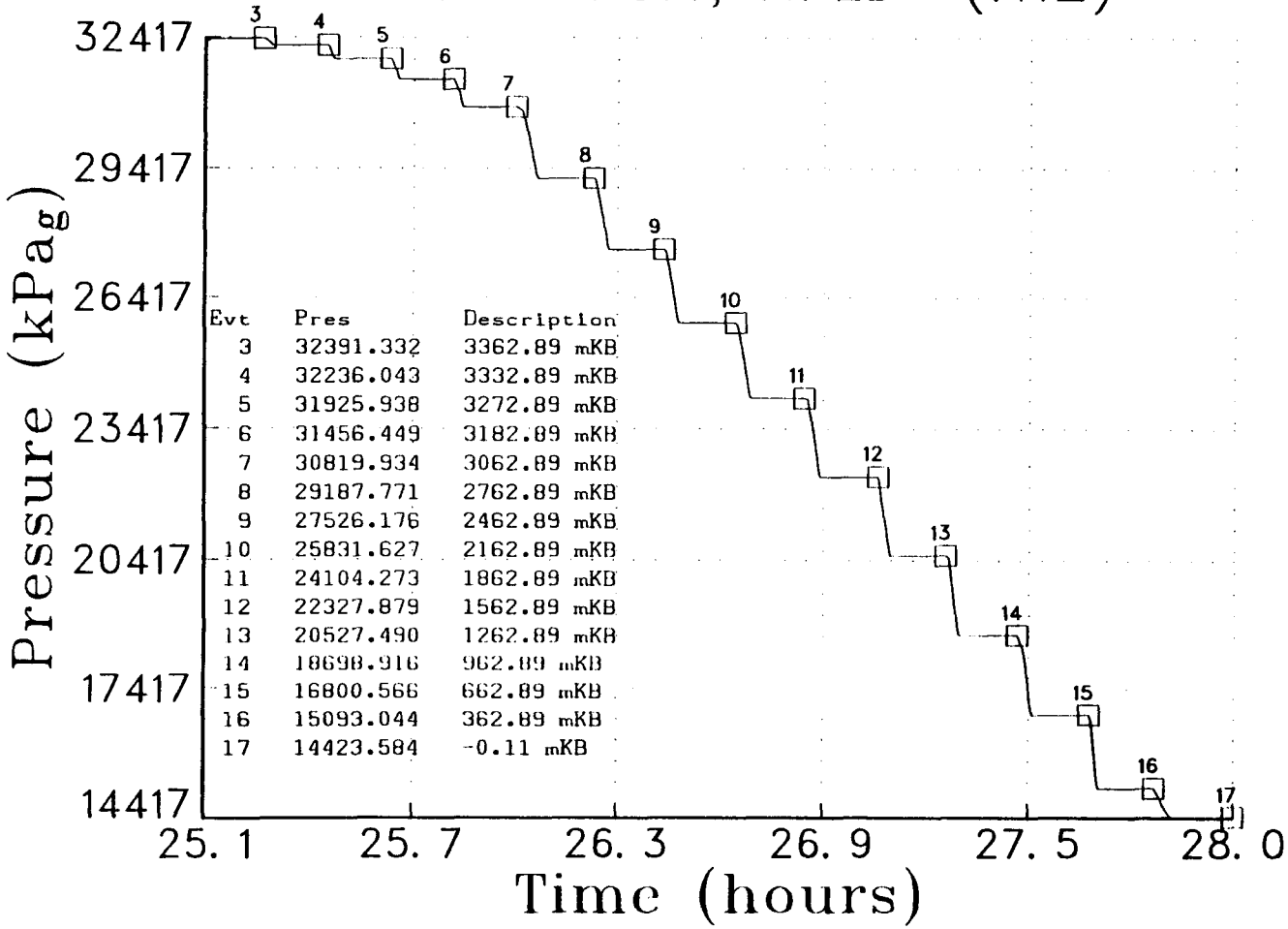
MPP Pressure extrapolated using a least-squares fit:
3363.000 32391.901



ZIPGRAPH 3.1b6 for Z.I. Probes, Edmonton Apr. 25, 1995 11:26:46

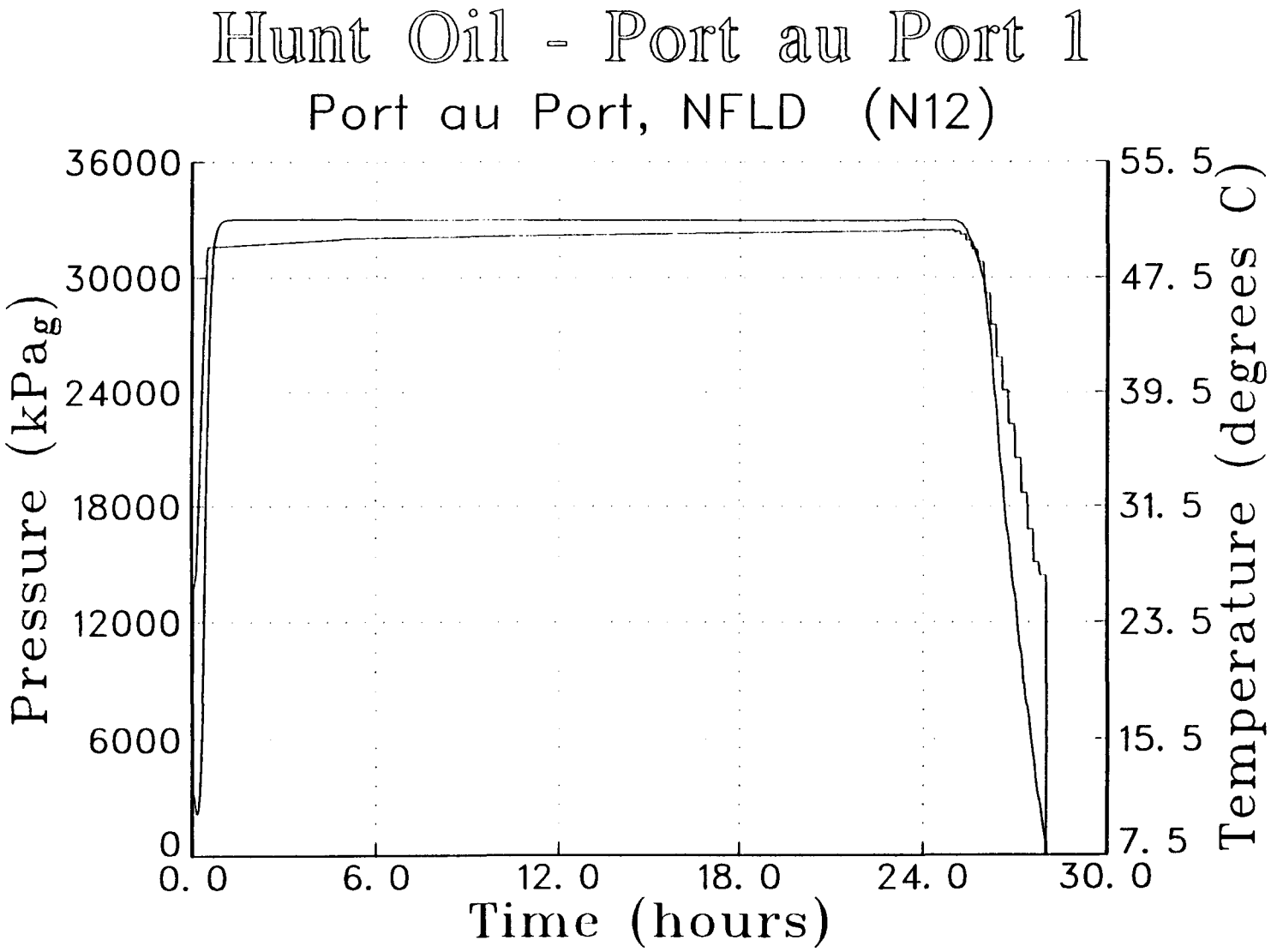
Hunt Oil - Port au Port 1

Port au Port, NFLD (N12)



Evt	Pres	Description
3	32391.332	3362.89 mKB
4	32236.043	3332.89 mKB
5	31925.938	3272.89 mKB
6	31456.449	3182.89 mKB
7	30819.934	3062.89 mKB
8	29187.771	2762.89 mKB
9	27526.176	2462.89 mKB
10	25831.627	2162.89 mKB
11	24104.273	1862.89 mKB
12	22327.879	1562.89 mKB
13	20527.490	1262.89 mKB
14	18698.916	962.89 mKB
15	16800.566	662.89 mKB
16	15093.044	362.89 mKB
17	14423.584	-0.11 mKB

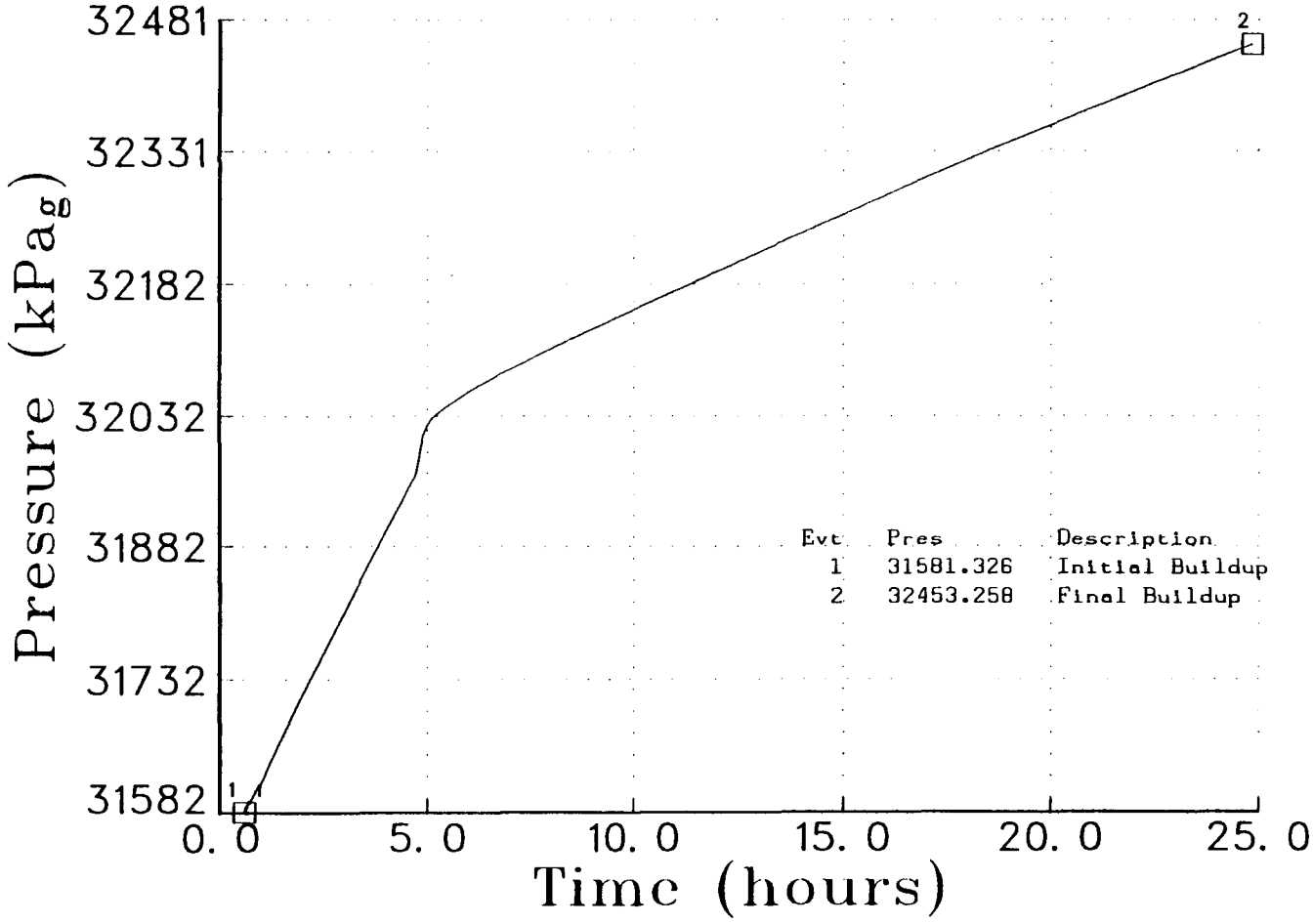
ZIPGRAPH 3.1b6 for Z.I. Probes, Edmonton Apr. 25, 1995 16:13:18



ZIPGRAPH 3.1b6 for Z.I. Probes, Edmonton Apr. 25, 1995 10:11:47

Hunt Oil - Port au Port 1

Port au Port, NFLD (N12)



ZIPGRAPH 3.1b6 for Z.I. Probes, Edmonton Apr. 25, 1995 10:44:31

Data Listing: Every 6th point of the generic data file.

Probe Number: N12
Company: Hunt Oil Company
Well: Hunt Oil - Port au Port 1
Location: Port au Port, NFLD
Field: N/A
Test Date(s): Apr. 22 - 23/95

Time	Pressure (kPag)	Temperature (degrees C)	Time	Pressure (kPag)	Temperature (degrees C)
Sat Apr 22, 1995			05:50:34	31592.508	49.7901
05:09:14	12.499	11.7588	05:54:14	31597.896	50.5610
05:11:14	13727.819	11.6037	06:00:14	31607.650	51.1459
05:12:14	13825.395	11.4484	06:05:34	31609.139	51.3573
05:13:14	13967.344	11.2093	06:12:14	31623.006	51.4611
05:14:14	14151.041	10.8966	06:18:14	31633.326	51.4973
05:15:14	14331.421	10.6189	06:24:14	31643.182	51.5133
05:16:14	14546.403	10.4310	06:30:14	31653.035	51.5201
05:17:14	15000.493	10.3648	06:36:14	31662.734	51.5236
05:18:14	15511.079	10.4273	06:42:14	31671.992	51.5262
05:19:14	16101.858	10.5587	06:48:14	31681.924	51.5283
05:20:14	16868.766	10.8178	06:54:14	31691.195	51.5299
05:21:14	17750.662	11.2738	07:00:14	31700.551	51.5304
05:22:14	18659.490	11.9088	07:06:14	31709.994	51.5318
05:23:14	19624.031	12.6360	07:12:14	31718.918	51.5322
05:24:14	20643.857	13.4722	07:18:14	31728.602	51.5332
05:25:14	21611.775	14.5370	07:24:14	31737.604	51.5333
05:26:14	22681.764	15.8032	07:30:14	31746.746	51.5344
05:27:14	23725.045	17.2183	07:36:14	31756.152	51.5342
05:28:14	24729.619	18.7624	07:42:14	31765.492	51.5346
05:29:14	25696.064	20.4035	07:48:14	31774.760	51.5342
05:30:14	26571.107	22.1483	07:54:14	31784.156	51.5347
05:31:14	27169.971	23.9910	08:00:14	31793.156	51.5354
05:32:14	27816.914	25.9663	08:06:14	31802.635	51.5360
05:33:14	28531.285	27.9729	08:12:14	31811.480	51.5364
05:34:14	29228.430	30.0077	08:18:14	31821.186	51.5358
05:35:14	29867.020	32.0656	08:24:14	31830.195	51.5363
05:36:14	30416.652	34.1096	08:30:14	31839.627	51.5361
05:37:14	30966.078	36.1144	08:36:14	31848.822	51.5361
05:38:14	31401.475	38.0324	08:42:14	31857.938	51.5364
05:39:44	31588.773	40.7353	08:48:14	31866.975	51.5364
05:40:44	31579.771	42.3946	08:54:14	31876.270	51.5371
05:41:54	31596.346	44.0858	09:00:14	31885.197	51.5367
05:43:04	31588.121	45.4861	09:06:14	31894.590	51.5370
1 - Initial Buildup			09:12:14	31904.041	51.5367
05:44:04	31581.326	46.4456	09:18:14	31912.928	51.5361
05:45:04	31585.535	47.2431	09:24:14	31922.236	51.5365
05:46:24	31586.625	48.1035	09:30:14	31931.469	51.5376
05:48:34	31594.994	49.1256	09:36:14	31941.119	51.5360

Time	Pressure (kPag)	Temperature (degrees C)	Time	Pressure (kPag)	Temperature (degrees C)
Sat Apr 22, 1995			23:42:14	32333.297	51.4566
19:00:14	32235.328	51.4739	23:48:14	32335.016	51.4558
19:06:14	32237.234	51.4731	23:54:14	32337.113	51.4552
19:12:14	32239.127	51.4721	Sun Apr 23, 1995		
19:18:14	32241.650	51.4719	00:00:14	32338.842	51.4559
19:24:14	32243.570	51.4721	00:06:14	32340.434	51.4549
19:30:14	32245.879	51.4708	00:12:14	32342.787	51.4553
19:36:14	32247.855	51.4714	00:18:14	32344.592	51.4544
19:42:14	32249.869	51.4696	00:24:14	32346.305	51.4548
19:48:14	32251.902	51.4702	00:30:14	32348.338	51.4544
19:54:14	32254.627	51.4688	00:36:14	32350.385	51.4542
20:00:14	32256.539	51.4692	00:42:14	32352.469	51.4541
20:06:14	32258.465	51.4685	00:48:14	32354.645	51.4541
20:12:14	32260.420	51.4676	00:54:14	32356.021	51.4527
20:18:14	32263.291	51.4685	01:00:14	32358.154	51.4528
20:24:14	32264.820	51.4679	01:06:14	32359.982	51.4523
20:30:14	32266.783	51.4678	01:12:14	32361.725	51.4526
20:36:14	32269.021	51.4673	01:18:14	32364.127	51.4523
20:42:14	32271.408	51.4654	01:24:14	32365.684	51.4508
20:48:14	32273.658	51.4657	01:30:14	32367.959	51.4513
20:54:14	32275.986	51.4661	01:36:14	32369.777	51.4514
21:00:14	32277.303	51.4657	01:42:14	32371.840	51.4511
21:06:14	32279.613	51.4655	01:48:14	32374.143	51.4515
21:12:14	32281.754	51.4646	01:54:14	32376.049	51.4508
21:18:14	32283.744	51.4643	02:00:14	32378.051	51.4511
21:24:14	32285.992	51.4644	02:06:14	32379.553	51.4492
21:30:14	32288.346	51.4646	02:12:14	32381.320	51.4500
21:36:14	32290.527	51.4626	02:18:14	32383.572	51.4494
21:42:14	32292.617	51.4632	02:24:14	32384.959	51.4499
21:48:14	32294.658	51.4625	02:30:14	32387.102	51.4487
21:54:14	32296.820	51.4624	02:36:14	32389.182	51.4482
22:00:14	32298.822	51.4625	02:42:14	32390.881	51.4489
22:06:14	32300.516	51.4612	02:48:14	32392.992	51.4483
22:12:14	32302.926	51.4613	02:54:14	32394.770	51.4477
22:18:14	32305.078	51.4613	03:00:14	32396.854	51.4484
22:24:14	32307.014	51.4612	03:06:14	32398.736	51.4473
22:30:14	32309.131	51.4611	03:12:14	32400.797	51.4477
22:36:14	32311.221	51.4601	03:18:14	32402.836	51.4482
22:42:14	32313.000	51.4600	03:24:14	32404.695	51.4477
22:48:14	32314.904	51.4596	03:30:14	32406.742	51.4461
22:54:14	32317.066	51.4591	03:36:14	32408.682	51.4469
23:00:14	32319.203	51.4592	03:42:14	32410.459	51.4463
23:06:14	32321.102	51.4578	03:48:14	32412.186	51.4457
23:12:14	32322.709	51.4576	03:54:14	32414.135	51.4456
23:18:14	32325.291	51.4572	04:00:14	32416.209	51.4461
23:24:14	32326.660	51.4571	04:06:14	32418.107	51.4455
23:30:14	32328.865	51.4567	04:12:14	32419.605	51.4452
23:36:14	32330.861	51.4563	04:18:14	32421.170	51.4444

Time	Pressure (kPag)	Temperature (degrees C)
Sun Apr 23, 1995		
04:24:14	32423.332	51.4454
04:30:14	32425.365	51.4454
04:36:14	32427.299	51.4443
04:42:14	32429.174	51.4444
04:48:14	32430.938	51.4441
04:54:14	32433.041	51.4438
05:00:14	32434.498	51.4437
05:06:14	32436.809	51.4431
05:12:14	32439.068	51.4427
05:18:14	32440.596	51.4429
05:24:14	32442.502	51.4424
05:30:14	32444.465	51.4426
05:36:14	32446.355	51.4428
05:42:14	32447.996	51.4420
05:48:14	32449.979	51.4426
05:54:14	32451.443	51.4423
2 - Final Buildup		
05:59:14	32453.258	51.4423
06:00:14	32408.842	51.4408
06:05:14	32456.840	51.4466
Maximum Recorded Pressure		
06:08:14	32482.449	51.4436
06:10:24	32432.293	51.4446
06:12:54	32380.314	51.4459
06:19:14	32388.857	51.3209
3 - 3362.89 mKB		
06:22:14	32391.332	51.2811
06:25:14	32231.484	51.2140
06:31:14	32235.016	50.9257
4 - 3332.89 mKB		
06:33:14	32236.043	50.8497
06:37:14	31922.119	50.5516
06:43:14	31925.748	50.0760
5 - 3272.89 mKB		
06:44:14	31925.938	50.0174
06:47:14	31452.195	49.7376
06:52:14	31454.865	49.1103
6 - 3182.89 mKB		
06:55:14	31456.449	48.8634
06:56:34	30959.779	48.7757
07:00:34	30816.625	48.1173
07:05:14	30819.715	47.5046
7 - 3062.89 mKB		
07:06:14	30819.934	47.4100
07:07:54	30423.865	47.2695
07:08:54	29829.867	47.1353
07:09:54	29226.396	46.8874
07:11:54	29181.584	46.0573
07:13:54	29184.105	45.2620
07:16:24	29185.590	44.4983
8 - 2762.89 mKB		
07:19:54	29187.771	43.7630
07:21:04	28592.920	43.5737
07:22:04	27847.322	43.3282
07:23:44	27520.291	42.5677
07:25:44	27521.469	41.4699
07:27:44	27522.941	40.5431
07:29:54	27524.684	39.7630
9 - 2462.89 mKB		
07:32:24	27526.176	39.0856
07:32:44	27443.076	39.0114
07:33:44	26743.592	38.7755
07:34:44	25969.332	38.4289
07:36:34	25827.693	37.3924
07:38:34	25829.162	36.2412
07:40:34	25829.381	35.3105
07:43:14	25830.568	34.3772
10 - 2162.89 mKB		
07:44:54	25831.627	33.9373
07:45:34	25531.791	33.7853
07:46:34	24816.521	33.5287
07:47:34	24103.477	33.1585
07:49:44	24102.518	32.0135
07:51:44	24102.684	31.0811
07:54:54	24103.703	30.0278
11 - 1862.89 mKB		
07:56:54	24104.273	29.5571
07:57:54	23840.422	29.3689
07:58:54	22983.896	29.1557
08:00:14	22326.463	28.6914
08:02:24	22324.516	27.6419
08:05:14	22325.314	26.5555
08:09:04	22327.523	25.5953
12 - 1562.89 mKB		
08:09:54	22327.879	25.4377
08:10:44	21620.715	25.2930
08:11:44	20744.451	25.0629
08:13:44	20523.266	24.2007
08:16:14	20524.408	23.1050
08:19:34	20526.180	22.0774
13 - 1262.89 mKB		
08:21:44	20527.490	21.6045
08:22:34	20166.977	21.4500
08:23:34	19034.885	21.2079
08:25:34	18692.441	20.3057

Time	Pressure (kPag)	Temperature (degrees C)
Sun Apr 23, 1995		
08:28:14	18694.824	19.1650
08:31:44	18697.896	18.1672
14 - 962.89 mKB		
08:34:14	18698.916	17.8419
08:35:34	18108.068	17.5132
08:36:34	16990.049	17.3511
08:38:54	16794.084	16.6154
08:42:14	16797.045	15.4669
15 - 662.89 mKB		
08:46:44	16800.566	14.4162
08:47:54	15604.917	14.1904
08:50:44	15086.484	13.2348
08:54:44	15090.157	12.0206
16 - 362.89 mKB		
08:58:14	15093.044	11.3800
08:59:34	14788.772	11.2088
09:00:34	14516.879	11.0590
09:03:14	14416.843	10.4685
09:07:54	14420.613	9.1981
17 - -0.11 mKB		
09:12:04	14423.584	8.4966
09:12:24	13956.215	8.2999
09:13:24	30.670	7.9100
09:13:54	14.591	7.5233

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Z.I. Probes Pressure Test Report

COMPANY INFORMATION

Company Name	Hunt Oil Company
Representative	
Phone	(403) 269-3400
Address	1450, 801 - 6th Avenue S.W. Calgary, AB T2P 3W2
Service Company	Solid Resources Ltd.

WELL INFORMATION

Well Name	Hunt Oil - Port au Port 1
Well Location	Port au Port, NFLD
Field and pool	N/A
Status (oil, gas, water, injection)	Gas
Perforated Intervals	N/A
Mid point of Perforated Intervals (MPP)	N/A
Drilling Rig Number	
Elevations	
Kelly Bushing (KB)	N/A
Casing Flange (CF)	N/A
KB-CF	N/A
Ground Level (GL)	N/A
Plug back total depth	N/A
Total depth	N/A
Production Casing	N/A
Production Tubing	N/A

TEST INFORMATION

Test number / Type of test	Probe accompanied Core Laboratory sampler.
Date(s) of test	April 23/95
Dead-weight gauge tubing pressure	N/A
Dead-weight gauge casing pressure	N/A
Shut-in date (duration)	N/A N/A
Date/time on bottom	Apr. 23/95 @ 15:35
Date/time off bottom	Apr. 23/95 @ 17:35
Run depth at probe pressure port	3382.0 mKB

PRESSURE TEST RESULTS

Maximum recorded probe pressure	84618.05 kPag
Maximum recorded probe temperature	53.02 Degrees C
Final buildup pressure	N/A
Gradient Survey Information	Gradient not ran.
Extrapolated pressure to MPP	N/A
Final gradient at depth	N/A
Z.I. Probes Job Number	N/A
Probe Serial Number	M47

PROBE INFORMATION

Probe Serial Number	M47
Model	Level II
Pressure	
Calibrated Pressure Range	0.0 - 68948.0 kPag (0 - 10000 psi)
Accuracy	0.05% FS
Resolution	0.0015% FS
Temperature	
Calibrated Temperature Range	22.6 - 124.6 Degrees C
Accuracy	0.25% FS
Resolution	0.002% FS
Calibration file used for reports	M47MR22A.CAL

PROGRAMMING DETAILS

Sequence Step	Sampling Mode	Sample Period	Repetitions of step Count
1	Pause	5 seconds	6 (test mode)
2	Delta Pressure On	10 seconds	5 count / 0.5 psi
3	Normal	1 minute	20160 (14 days)
4	Delta Pressure Off		
5	Overrun	1 minute	to end of memory

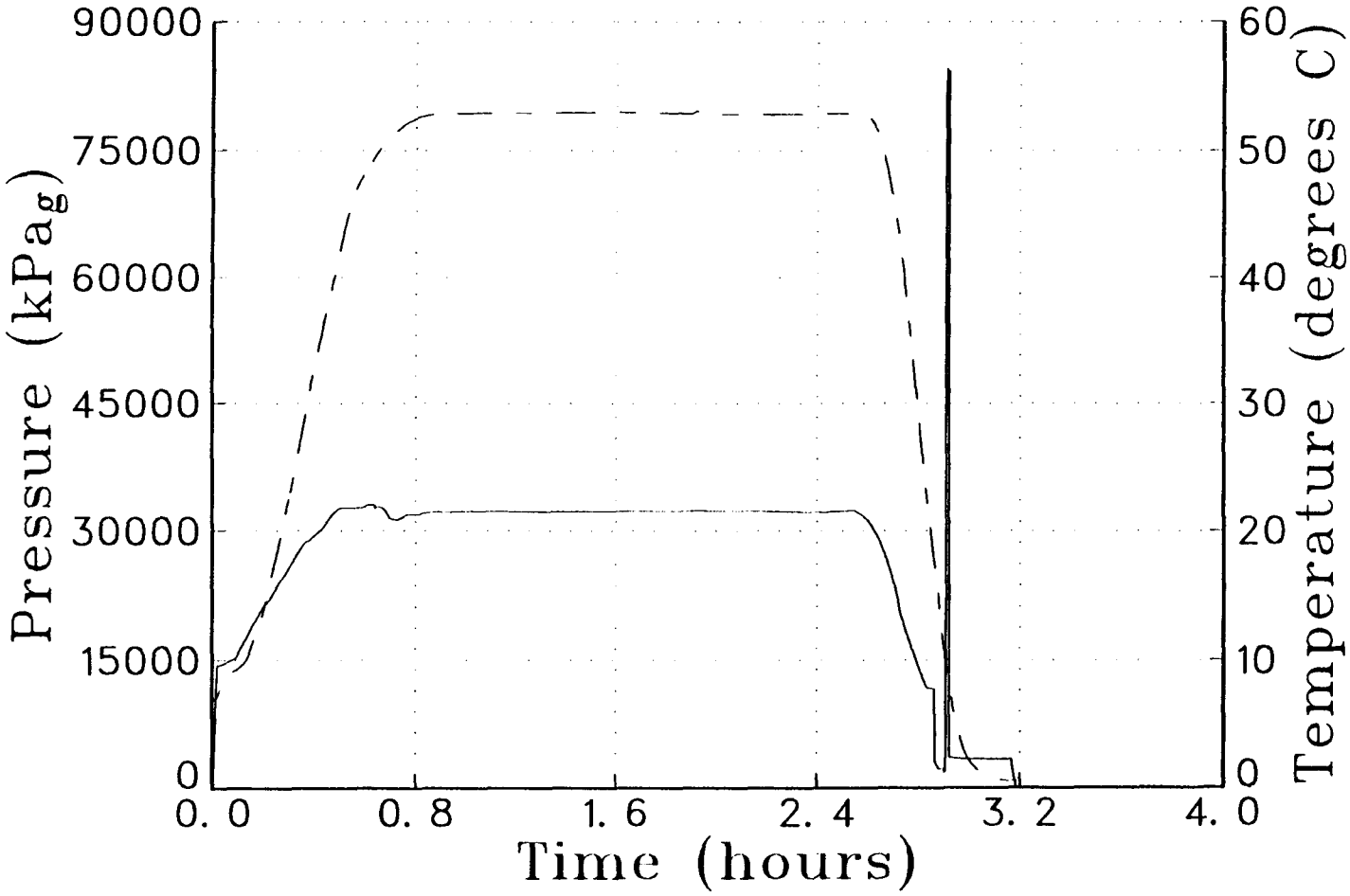
Program start time	Apr. 23/95 @ 15:05:35
Program end time	Apr. 23/95 @ 19:32:35
Total Samples Taken	705
Usage for this test	0.0803 Ah
Generic Data File Name	M47AP23A.GEN
Reported by	Bruce Peterson

COMMENTS

Probe M47 was used on this test. The data from probe M47 is recommended for reservoir analysis.

Hunt Oil Company - Port au Port 1

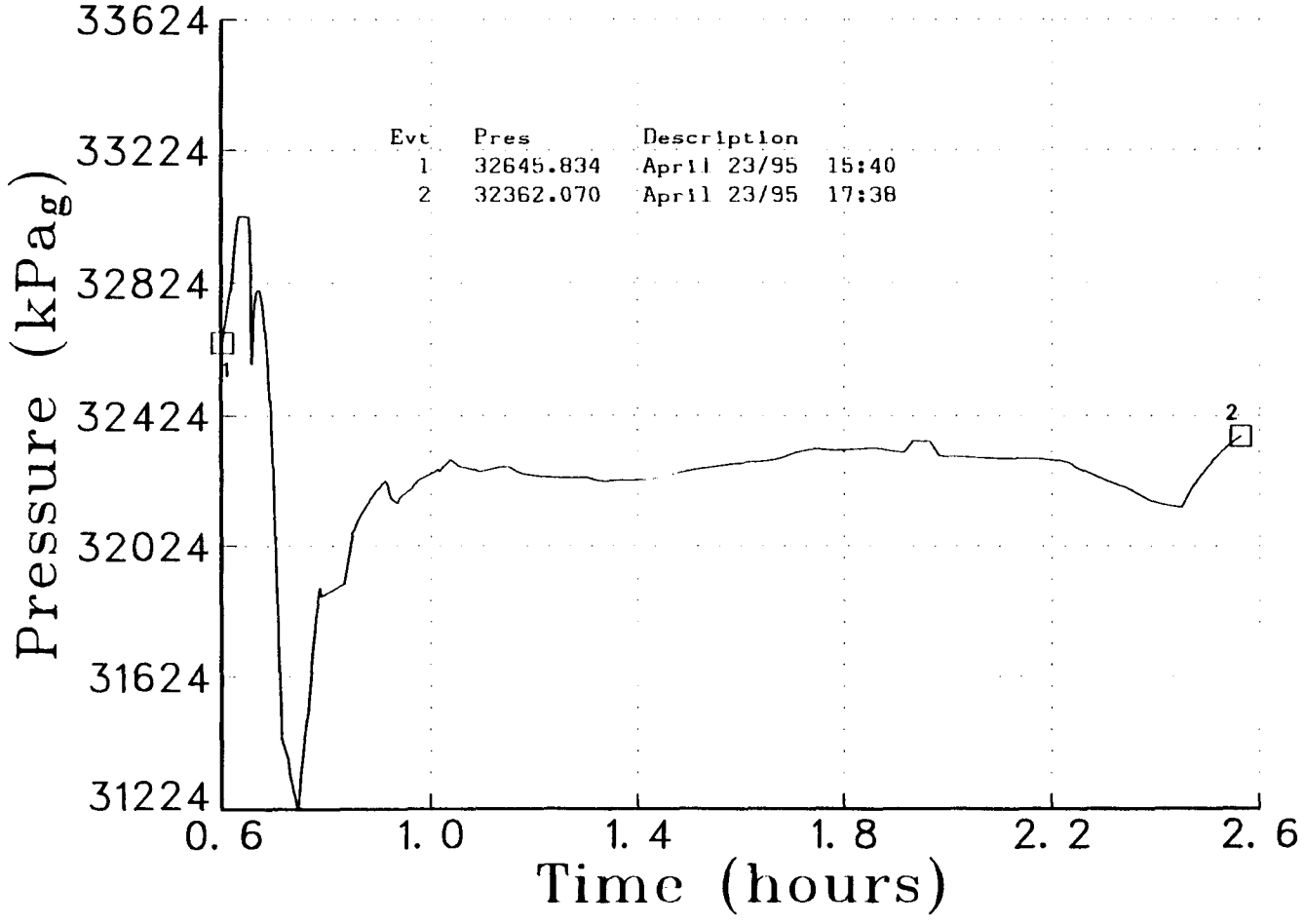
Port au Port, NFLD (M47)



ZIPGRAPH 3. 1b6 for Z. I. Probes, Edmonton Apr. 25, 1995 15:07:29

Hunt Oil Company - Port au Port 1

Port au Port, NFLD (M47)



ZIPGRAPH 3.1b6 for Z.I. Probes, Edmonton Apr. 25, 1995 15:32:19

Data Listing: Every second point of the generic data file.

Probe Number: M47
Company: Hunt Oil Company
Well: Hunt Oil - Port au Port 1
Location: Port au Port, NFLD
Field: N/A
Test Date(s): April 23/95

Time	Pressure (kPag)	Temperature (degrees C)	Time	Pressure (kPag)	Temperature (degrees C)
Sun Apr 23, 1995			15:19:25	22358.438	16.4369
15:05:35	142.257	6.8391	15:19:45	22651.373	16.9060
15:06:45	14348.508	7.2505	15:20:05	22920.870	17.3902
15:07:05	14387.593	7.6472	15:20:25	23199.585	17.8527
15:07:45	14464.545	8.4067	15:20:45	23493.498	18.3316
15:08:05	14538.070	8.6565	15:21:05	23767.669	18.8155
15:08:25	14621.545	8.8035	15:21:25	24054.284	19.3012
15:08:45	14692.414	8.8898	15:21:45	24280.262	19.8035
15:09:05	14761.217	8.9298	15:22:05	24446.614	20.2962
15:09:25	14821.153	8.9621	15:22:25	24665.048	20.8003
15:09:45	14919.128	9.0018	15:22:45	24917.010	21.2875
15:10:05	14985.643	9.0388	15:23:05	25175.532	21.7813
15:10:25	15043.558	9.0884	15:23:25	25466.831	22.2683
15:10:45	15121.409	9.1423	15:23:45	25774.885	22.7590
15:11:05	15328.737	9.2065	15:24:05	26001.046	23.2505
15:11:25	15593.137	9.2791	15:24:25	26217.984	23.7611
15:11:45	15934.157	9.3739	15:24:45	26477.558	24.2798
15:12:05	16259.223	9.4748	15:25:05	26777.290	24.8025
15:12:25	16541.479	9.5773	15:25:25	27084.505	25.5767
15:12:45	16851.001	9.6884	15:25:45	27338.399	26.0403
15:13:05	17204.994	9.8145	15:26:05	27629.750	26.5889
15:13:25	17439.451	9.9878	15:26:25	27929.702	27.1455
15:13:45	17739.617	10.2034	15:26:45	28182.451	27.7414
15:14:05	18077.704	10.4615	15:27:05	28415.165	28.3491
15:14:25	18417.403	10.7482	15:27:25	28581.460	28.9858
15:14:45	18794.417	11.0703	15:27:45	28712.482	29.6168
15:15:05	19081.880	11.4029	15:28:15	28824.316	30.5590
15:15:25	19344.382	11.7432	15:28:35	28965.271	31.1682
15:15:45	19599.605	12.0749	15:28:55	29133.106	31.7508
15:16:05	19885.421	12.4054	15:29:15	29266.814	32.3398
15:16:25	20193.345	12.7260	15:29:35	29363.362	32.9097
15:16:45	20545.808	13.0563	15:29:55	29539.761	33.4531
15:17:05	20846.378	13.3920	15:30:15	29739.286	33.9927
15:17:25	21119.949	13.7617	15:30:35	29851.929	34.5267
15:17:45	21382.313	14.1626	15:30:55	29976.896	35.0537
15:18:05	21544.971	14.5843	15:31:15	30123.493	35.5582
15:18:25	21735.380	15.0435	15:31:35	30356.514	36.0667
15:18:45	21913.649	15.5017	15:31:55	30585.818	36.5685
15:19:05	22098.650	15.9565	15:32:15	30801.313	37.0729

Time	Pressure (kPag)	Temperature (degrees C)	Time	Pressure (kPag)	Temperature (degrees C)
Sun Apr 23, 1995			15:48:25	31316.033	51.2994
15:32:35	31005.111	37.5758	15:48:45	31275.969	51.3963
15:32:55	31232.216	38.0815	15:49:05	31231.491	51.4991
15:33:15	31452.883	38.5982	15:49:25	31271.896	51.5960
15:33:35	31674.736	39.1461	15:49:45	31375.535	51.6963
15:33:55	31884.422	39.6739	15:50:05	31453.276	51.7847
15:34:15	32082.867	40.2119	15:50:25	31517.570	51.8772
15:34:35	32251.946	40.7494	15:50:45	31642.768	51.9647
15:34:55	32418.697	41.2993	15:51:05	31754.184	52.0384
15:35:15	32559.728	41.8672	15:51:25	31836.470	52.1156
15:35:35	32643.755	42.4202	15:51:45	31897.597	52.1812
15:35:55	32641.542	42.9700	15:53:35	31893.369	52.4643
15:36:15	32641.654	43.5048	15:55:35	32064.359	52.6564
15:36:35	32643.107	44.0154	15:55:55	32084.474	52.6822
15:36:55	32642.326	44.4890	15:56:15	32106.075	52.7034
15:37:15	32643.065	44.9306	15:56:35	32123.672	52.7255
15:37:35	32643.519	45.3362	15:57:05	32146.781	52.7516
15:37:55	32643.256	45.7071	15:57:35	32167.733	52.7752
15:38:15	32643.526	46.0474	15:58:15	32193.932	52.8007
15:38:35	32643.547	46.3625	15:58:55	32214.512	52.8174
15:38:55	32644.889	46.6492	15:59:35	32209.066	52.8325
15:39:15	32644.489	46.9150	15:59:55	32172.187	52.8376
15:39:35	32645.089	47.1614	16:00:45	32156.499	52.8475
15:39:55	32644.712	47.3884	16:01:15	32181.751	52.8514
15:40:15	32644.794	47.5976	16:02:25	32203.201	52.8575
1 - April 23/95 @ 15:40			16:02:55	32219.371	52.8588
15:40:35	32645.834	47.7946	16:03:45	32235.714	52.8643
15:40:55	32695.014	48.0262	16:05:05	32252.607	52.8714
15:41:15	32756.936	48.1947	16:05:35	32253.239	52.8737
15:41:35	32803.850	48.3486	16:06:25	32274.182	52.8741
15:41:55	32911.476	48.5230	16:07:35	32277.854	52.8781
15:42:15	33003.448	48.6988	16:09:35	32259.861	52.8697
15:42:35	33022.604	48.8931	16:11:35	32261.285	52.8700
15:43:05	33023.107	49.1913	16:13:35	32268.716	52.8723
15:43:35	33022.891	49.4852	16:15:15	32245.536	52.8781
15:43:55	32583.289	49.6587	16:17:35	32236.633	52.8781
15:44:15	32761.720	49.8269	16:19:35	32234.068	52.8845
15:44:45	32802.392	50.0595	16:21:35	32234.274	52.8896
15:45:05	32762.021	50.1998	16:23:35	32226.517	52.8960
15:45:25	32681.883	50.3341	16:25:35	32224.283	52.9007
15:45:45	32575.790	50.4618	16:27:35	32226.190	52.9063
15:46:05	32447.440	50.5808	16:29:35	32228.082	52.9133
15:46:25	32214.961	50.6919	16:31:35	32236.756	52.9216
15:46:45	31960.428	50.7945	16:33:35	32250.033	52.9313
15:47:05	31676.576	50.9029	16:35:35	32260.672	52.9368
15:47:25	31428.823	51.0008	16:37:35	32267.957	52.9406
15:47:45	31401.614	51.0992	16:39:35	32275.414	52.9407
15:48:05	31374.593	51.1997	16:41:35	32281.599	52.9402

Time	Pressure (kPag)	Temperature (degrees C)
Sun Apr 23, 1995		
16:43:35	32286.026	52.9373
16:45:35	32297.395	52.9356
16:47:05	32312.042	52.9382
16:49:35	32322.431	52.9280
16:51:35	32319.304	52.9053
16:53:35	32321.062	52.8838
16:55:35	32324.492	52.8652
16:57:35	32317.657	52.8441
16:59:35	32312.858	52.8272
Maximum Recorded Temperature		
17:01:35	32345.914	53.0210
17:03:35	32302.147	52.8053
17:05:35	32300.129	52.8005
17:07:35	32296.979	52.7954
17:09:35	32295.183	52.7919
17:11:35	32293.698	52.7897
17:13:35	32293.375	52.7858
17:15:35	32291.983	52.7835
17:17:35	32287.579	52.7813
17:18:55	32273.350	52.7828
17:20:05	32256.441	52.7848
17:21:25	32242.097	52.7849
17:22:45	32227.236	52.7837
17:24:15	32211.890	52.7877
17:25:45	32195.642	52.7914
17:26:45	32180.914	52.7953
17:27:45	32166.876	52.7971
17:29:15	32152.869	52.8043
17:31:35	32142.088	52.8177
17:32:55	32208.852	52.8252
17:33:25	32229.313	52.8301
17:34:05	32252.196	52.8345
17:34:45	32273.353	52.8379
17:35:25	32293.434	52.8409
17:36:05	32310.813	52.8428
17:36:45	32327.398	52.8441
17:37:35	32345.014	52.8449
2 - April 23/95 @ 17:38		
17:38:25	32362.070	52.8434
17:38:55	32284.355	52.8435
17:39:15	32176.044	52.8420
17:39:35	32034.870	52.8435
17:39:55	31912.100	52.8347
17:40:15	31842.916	52.8305
17:40:35	31752.426	52.8037
17:40:55	31565.873	52.7523
17:41:15	31376.315	52.6861
17:41:35	31178.721	52.6076
17:41:55	30953.120	52.5041
17:42:15	30717.445	52.3763
17:42:35	30449.832	52.2078
17:42:55	30150.321	52.0339
17:43:15	29872.944	51.7358
17:43:35	29591.262	51.5376
17:43:55	29265.269	51.2647
17:44:15	28923.358	50.9387
17:44:35	28591.097	50.5594
17:44:55	28241.938	50.2005
17:45:15	27862.618	49.7956
17:45:35	27457.875	49.3537
17:45:55	27010.934	48.9055
17:46:15	26543.124	48.4144
17:46:35	26045.096	47.8967
17:46:55	25563.034	47.3377
17:47:15	25071.830	46.7666
17:47:35	24524.669	46.1335
17:47:55	23921.318	45.4562
17:48:15	23275.790	44.8661
17:48:35	22560.240	44.1043
17:48:55	21791.264	43.3863
17:49:15	20825.940	42.3237
17:49:35	20212.560	41.5571
17:49:55	19701.703	40.7903
17:50:15	19143.462	39.5766
17:50:35	18641.838	38.7036
17:50:55	18121.955	37.6384
17:51:15	17662.919	36.5859
17:51:35	17197.161	35.5010
17:51:55	16685.263	34.4187
17:52:15	16158.987	33.2465
17:52:35	15661.002	32.1632
17:52:55	15173.398	31.0809
17:53:15	14661.621	29.9858
17:53:35	14237.473	28.8256
17:53:55	13812.143	27.7858
17:54:15	13411.474	26.6826
17:54:35	12983.080	25.6392
17:54:55	12568.173	24.4820
17:55:15	12176.206	23.4362
17:55:35	11828.606	22.4525
17:56:25	11677.526	20.0905
17:56:45	11682.318	19.2032
17:57:15	11666.841	17.8972
17:57:35	3258.607	16.9574
17:57:55	2814.006	16.0220

Time	Pressure (kPag)	Temperature (degrees C)	Time	Pressure (kPag)	Temperature (degrees C)
Sun Apr 23, 1995			18:02:15	34[illegible]864	5.3174
17:58:15	2482.568	14.9853	18:02:35	3445.717	4.8339
17:58:35	2190.931	13.9228	18:03:15	3437.161	3.9275
17:58:55	2220.162	12.8540	18:03:35	3443.220	3.6062
17:59:25	2233.831	11.3511	18:03:55	3437.385	3.2186
17:59:55	1749.615	9.9852	18:04:15	3379.448	2.9385
Maximum Recorded Pressure			18:05:35	3364.368	2.0911
18:00:15	84618.045	9.1854	18:07:35	3357.893	1.3490
18:00:35	84312.411	8.4116	18:09:35	3354.577	0.9027
18:00:55	4629.824	7.7003	18:11:35	3352.947	0.6837
18:01:15	3510.779	7.0297	18:13:35	3351.823	0.5213
18:01:35	3538.642	6.3744	18:15:35	3351.592	0.4854
18:01:55	3511.705	5.8552	18:16:35	0.000	0.4664

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Z.I. Probes Pressure Test Report

COMPANY INFORMATION

Company Name	Hunt Oil Company
Representative	
Phone	(403) 269-3400
Address	1450, 801 - 6th Avenue S.W. Calgary, AB T2P 3W2
Service Company	Solid Resources Ltd.

WELL INFORMATION

Well Name	Port au Port #1
Well Location	NFLD
Field and pool	N/A
Status (oil, gas, water, injection)	Gas
Perforated Intervals	N/A
Mid point of Perforated Intervals (MPP)	N/A
Drilling Rig Number	
Elevations	
Kelly Bushing (KB)	N/A
Casing Flange (CF)	N/A
KB-CF	N/A
Ground Level (GL)	N/A
Plug back total depth	N/A
Total depth	N/A
Production Casing	N/A
Production Tubing	N/A

TEST INFORMATION

Test number / Type of test	Flow and Buildup
Date(s) of test	Jun. 14 - Jul. 09/95
Dead-weight gauge tubing pressure	N/A
Dead-weight gauge casing pressure	N/A
Shut-in date (duration)	Jun. 24/95 (15 days)
Date/time on bottom	Jun. 14/95 @ 04:56
Date/time off bottom	Jul. 09/95 @ 03:21
Run depth at probe pressure port	3396.46 mCF

PRESSURE TEST RESULTS

Maximum recorded probe pressure	35531.53 kPag
Maximum recorded probe temperature	55.26 Degrees C
Final buildup pressure	28876.67 kPag Pressure kept to
Gradient Survey Information	Gradient not ran.
Extrapolated pressure to MPP	N/A
Final gradient at depth	N/A
Z.I. Probes Job Number	N/A
Probe Serial Number	M47

PROBE INFORMATION

Probe Serial Number	M47
Model	Level II
Pressure	
Calibrated Pressure Range	0.0 - 68948.0 kPag (0 - 10000 psi)
Accuracy	0.05% FS
Resolution	0.0015% FS
Temperature	
Calibrated Temperature Range	23.1 - 123.6 Degrees C
Accuracy	0.25% FS
Resolution	0.002% FS
Calibration file used for reports	M47MY04A.CAL

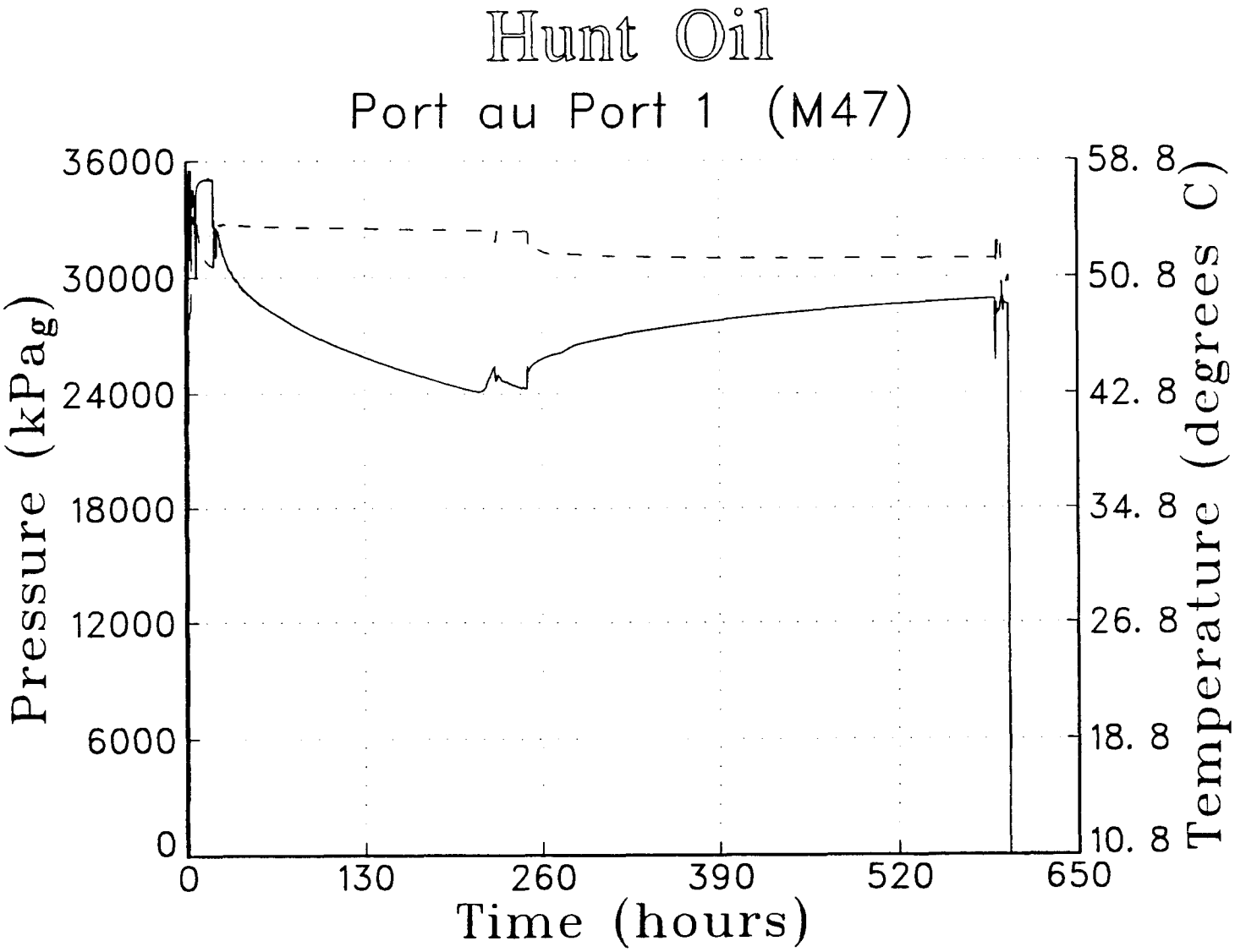
PROGRAMMING DETAILS

Sequence Step	Sampling Mode	Sample Period	Repetitions of step Count
1	Pause	5 seconds	6 (test mode)
2	Normal	30 seconds	8640 (3 days)
3	Delta Pressure On	2 minutes	4 count @ 0.5 psi
4	Normal	10 minutes	4032 (28 days)
5	Delta Pressure On	30 seconds	3 count @ 0.5 psi
6	Normal	2 minutes	5040 (7 days)
7	Overrun	2 minutes	to end of memory

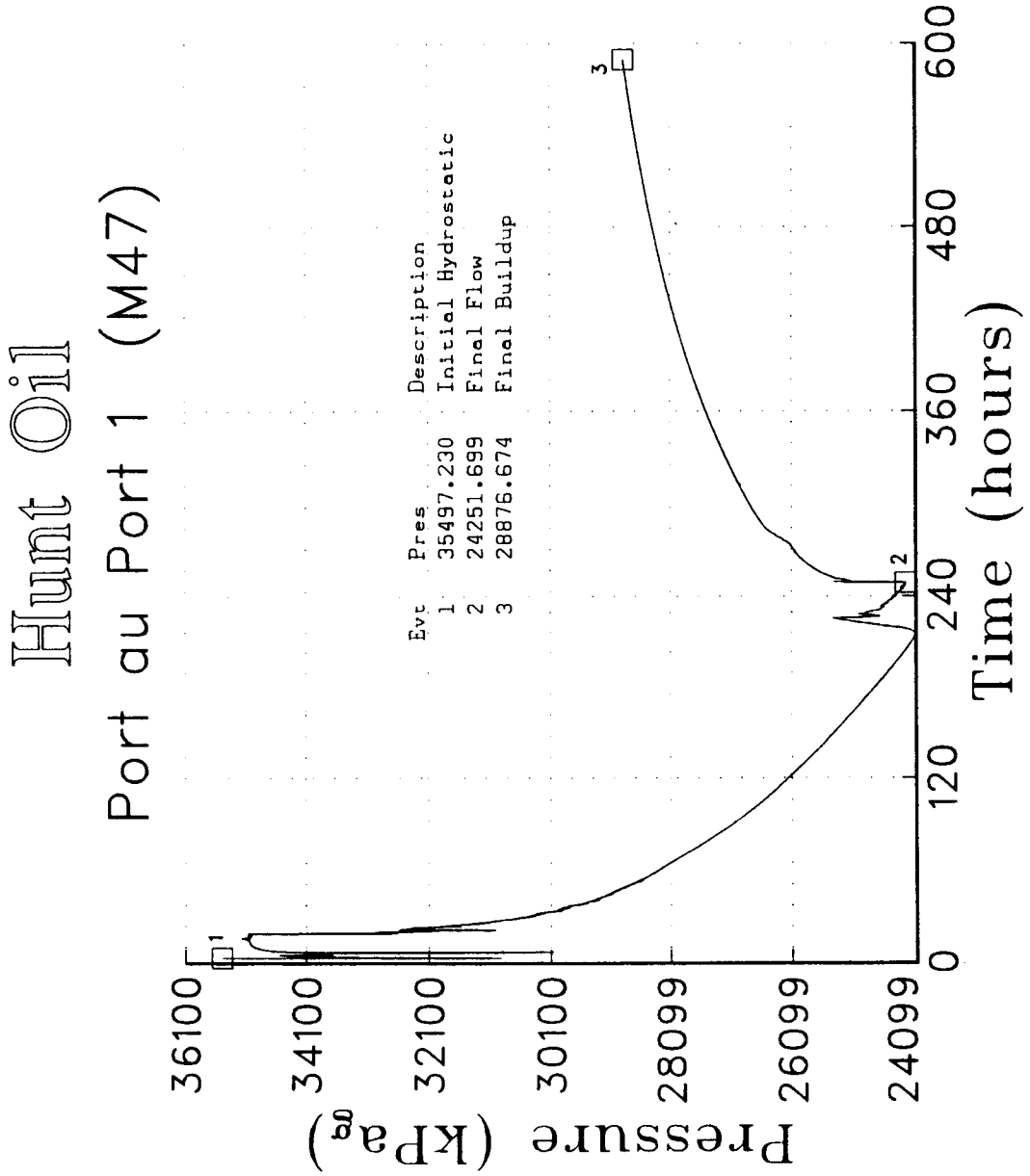
Program start time	Jun. 14/95 @ 03:28:18
Program end time	Jul. 09/95 @ 03:59:48
Total Samples Taken	12158
Usage for this test	1.1472 Ah
Generic Data File Name	M47JL09A.GEN
Reported by	Tim Anderson

COMMENTS

Probes M47 and N12 were used on this test and maintained Level II accuracy throughout. The data from both probes is recommended for reservoir analysis.



ZIPGRAPH 3. 1b6 for Z. I. Probes, Edmonton July 10, 1995 16:35:50


Hunt Oil
Port au Port 1 (M47)
Evt Pres Description
1 35497.230 Initial Hydrostatic
2 24251.699 Final Flow
3 28876.674 Final Buildup
Pressure (kPag)
36100
34100
32100
30100
28099
26099
24099
0
120
240
360
480
600
Time (hours)
1
2
3

Data Listing: Every 32th point of the generic data file.

Probe Number: M47
Company: Hunt Oil Company
Well: Port au Port #1
Location: NFLD
Field: N/A
Test Date(s): Jun. 14 - Jul. 09/95

Time	Pressure (kPag)	Temperature (degrees C)	Time	Pressure (kPag)	Temperature (degrees C)
Wed Jun 14, 1995			12:00:18	34841.199	53.5100
03:28:18	0.000	17.5940	12:16:18	34867.590	53.3370
03:44:18	5.401	16.0100	12:32:18	34891.469	53.1850
04:00:18	2.215	12.2190	12:48:18	34911.906	53.0520
04:16:18	0.000	11.0550	13:04:18	34929.188	52.9280
04:32:18	9912.473	11.9240	13:20:18	34945.246	52.8210
04:48:18	29349.051	23.8270	13:36:18	34959.055	52.7210
Maximum Recorded Pressure			13:52:18	34970.980	52.6330
04:56:48	35531.527	39.1610	14:08:18	34982.359	52.5490
05:04:18	35524.188	45.1450	14:24:18	34991.062	52.4750
05:20:18	35516.223	47.3750	14:40:18	35001.242	52.4090
05:36:18	35510.863	47.9550	14:56:18	35006.457	52.3430
05:52:18	35505.508	48.2660	15:12:18	35013.000	52.2840
06:08:18	35499.637	48.4510	15:28:18	35018.715	52.2310
1 - Initial Hydrostatic			15:44:18	35024.602	52.1790
06:17:18	35497.230	48.5230	16:00:18	35029.664	52.1320
06:24:18	30923.105	48.5420	16:16:18	35034.043	52.0840
06:40:18	33037.785	50.9250	16:32:18	35036.613	52.0390
06:56:18	33643.891	54.5990	16:48:18	35038.738	51.9980
07:12:18	34047.320	55.0340	17:04:18	35040.828	51.9580
07:28:18	33891.453	55.0110	17:20:18	35043.355	51.9170
07:44:18	34349.586	54.9800	17:36:18	35044.938	51.8810
08:00:18	34508.652	54.8620	17:52:18	35046.758	51.8500
08:16:18	34526.078	54.7150	18:08:18	35047.777	51.8230
08:32:18	34235.039	54.5270	18:24:18	35059.211	51.7980
08:48:18	34145.258	54.4950	18:40:18	35099.324	51.7840
09:04:18	33925.512	54.5560	18:56:18	35119.660	51.7640
09:20:18	33712.383	54.6490	19:12:18	35138.605	51.7460
09:36:18	32846.488	54.7000	19:28:18	35048.418	51.7210
09:52:18	32164.744	54.6230	19:44:18	35042.078	51.6850
10:08:18	30601.123	54.8250	20:00:18	35033.031	51.6750
10:24:18	34360.254	55.1500	20:16:18	35023.934	51.6580
Maximum Recorded Temperature			20:32:18	35017.766	51.6370
10:29:48	34457.375	55.2610	20:48:18	35018.148	51.6210
10:40:18	34567.598	55.0500	21:04:18	35029.312	51.6010
10:56:18	34664.387	54.5750	21:20:18	35043.945	51.5850
11:12:18	34726.285	54.2190	21:36:18	35061.906	51.5670
11:28:18	34772.410	53.9340	21:52:18	35032.000	51.5520
11:44:18	34809.820	53.7100	22:08:18	35001.281	51.5340

Time	Pressure (kPag)	Temperature (degrees C)	Time	Pressure (kPag)	Temperature (degrees C)
Wed Jun 14, 1995			10:40:18	30353.494	54.4690
22:24:18	33072.707	51.4950	10:56:18	30337.857	54.4620
22:40:18	32661.732	52.4230	11:12:18	30292.781	54.4600
22:56:18	32704.051	53.8650	11:28:18	30282.834	54.4970
23:12:18	32737.918	54.1900	11:44:18	30225.207	54.4590
23:28:18	32900.121	54.1990	12:00:18	30210.852	54.4580
23:44:18	32549.014	54.1990	12:16:18	30162.178	54.4650
Thu Jun 15, 1995			12:32:18	30165.928	54.4680
00:00:18	32144.471	54.2620	12:48:18	30091.369	54.4620
00:16:18	32062.273	54.3680	13:04:18	30036.025	54.4630
00:32:18	31212.262	54.4290	13:20:18	29991.846	54.4770
00:48:18	31945.328	54.4930	13:36:18	29964.455	54.4770
01:04:18	32524.428	54.7160	13:52:18	29990.799	54.4780
01:20:18	32452.164	54.4690	14:08:18	29917.367	54.4760
01:36:18	32414.260	54.4450	14:24:18	29915.818	54.4760
01:52:18	32420.955	54.4540	14:40:18	29875.049	54.4520
02:08:18	32357.617	54.4450	14:56:18	29880.217	54.4420
02:24:18	32278.469	54.4800	15:12:18	29905.984	54.4440
02:40:18	32079.639	54.4690	15:28:18	29893.484	54.4390
02:56:18	31959.387	54.4350	15:44:18	29831.809	54.4200
03:12:18	31755.824	54.3890	16:00:18	29830.686	54.4190
03:28:18	31882.945	54.4130	16:16:18	29814.229	54.4210
03:44:18	31765.619	54.4190	16:32:18	29764.354	54.4110
04:00:18	31712.256	54.4290	16:48:18	29745.379	54.4100
04:16:18	31647.059	54.4100	17:04:18	29705.176	54.4030
04:32:18	31510.816	54.3810	17:20:18	29676.873	54.3920
04:48:18	31382.551	54.4190	17:36:18	29610.066	54.3910
05:04:18	31337.553	54.4130	17:52:18	29595.189	54.3900
05:20:18	31211.430	54.4500	18:08:18	29581.508	54.3930
05:36:18	31238.898	54.4540	18:24:18	29534.904	54.3910
05:52:18	31132.875	54.4470	18:40:18	29519.158	54.3920
06:08:18	31088.258	54.4620	18:56:18	29514.836	54.3880
06:24:18	31079.586	54.4620	19:12:18	29501.885	54.3830
06:40:18	31033.779	54.4510	19:28:18	29471.629	54.3810
06:56:18	30976.373	54.4300	19:44:18	29425.625	54.3770
07:12:18	30913.939	54.4440	20:00:18	29419.197	54.3780
07:28:18	30849.027	54.4520	20:16:18	29398.809	54.3770
07:44:18	30780.545	54.4530	20:32:18	29360.113	54.3670
08:00:18	30721.320	54.4600	20:48:18	29345.891	54.3700
08:16:18	30687.133	54.4660	21:04:18	29309.531	54.3730
08:32:18	30652.889	54.4680	21:20:18	29315.328	54.3710
08:48:18	30590.963	54.4650	21:36:18	29288.900	54.3680
09:04:18	30554.479	54.4640	21:52:18	29294.395	54.3720
09:20:18	30491.803	54.4630	22:08:18	29271.654	54.3610
09:36:18	30446.654	54.4730	22:24:18	29255.676	54.3610
09:52:18	30398.283	54.4700	22:40:18	29230.146	54.3580
10:08:18	30414.254	54.4780	22:56:18	29185.709	54.3550
10:24:18	30369.240	54.4650	23:12:18	29187.146	54.3580

Time	Pressure (kPag)	Temperature (degrees C)	Time	Pressure (kPag)	Temperature (degrees C)
Thu Jun 15, 1995			11:44:18	28496.199	54.3060
23:28:18	29155.500	54.3590	12:00:18	28482.545	54.3040
23:44:18	29142.908	54.3570	12:16:18	28471.387	54.3050
Fri Jun 16, 1995			12:32:18	28458.275	54.3030
00:00:18	29132.771	54.3550	12:48:18	28444.148	54.3030
00:16:18	29129.016	54.3550	13:04:18	28431.836	54.3040
00:32:18	29118.734	54.3520	13:20:18	28419.627	54.3020
00:48:18	29106.113	54.3520	13:36:18	28406.604	54.3000
01:04:18	29090.592	54.3490	13:52:18	28394.639	54.2990
01:20:18	29070.309	54.3490	14:08:18	28381.002	54.2980
01:36:18	29054.379	54.3460	14:24:18	28366.936	54.2980
01:52:18	29034.469	54.3460	14:40:18	28354.248	54.2970
02:08:18	29019.434	54.3440	14:56:18	28342.104	54.2980
02:24:18	29006.398	54.3440	15:12:18	28330.068	54.2950
02:40:18	28995.971	54.3410	15:28:18	28317.643	54.2970
02:56:18	28979.191	54.3380	15:44:18	28305.170	54.2980
03:12:18	28956.080	54.3390	16:00:18	28292.736	54.2950
03:28:18	28934.396	54.3360	16:16:18	28280.385	54.2930
03:44:18	28911.611	54.3370	16:32:18	28267.494	54.2940
04:00:18	28911.840	54.3350	16:48:18	28258.250	54.2910
04:16:18	28879.430	54.3340	17:04:18	28245.273	54.2920
04:32:18	28894.826	54.3340	17:20:18	28234.150	54.2910
04:48:18	28848.838	54.3310	17:36:18	28222.029	54.2900
05:04:18	28850.061	54.3310	17:52:18	28210.707	54.2900
05:20:18	28831.170	54.3300	18:08:18	28200.092	54.2880
05:36:18	28820.768	54.3280	18:24:18	28186.328	54.2870
05:52:18	28811.543	54.3250	18:40:18	28174.996	54.2870
06:08:18	28783.230	54.3250	18:56:18	28163.049	54.2860
06:24:18	28756.621	54.3250	19:12:18	28154.326	54.2880
06:40:18	28746.764	54.3230	19:28:18	28141.795	54.2840
06:56:18	28741.930	54.3230	19:44:18	28128.916	54.2830
07:12:18	28724.555	54.3210	20:00:18	28119.424	54.2840
07:28:18	28721.268	54.3210	20:16:18	28105.758	54.2820
07:44:18	28678.170	54.3200	20:32:18	28095.180	54.2810
08:00:18	28672.410	54.3190	20:48:18	28082.105	54.2810
08:16:18	28661.311	54.3210	21:04:18	28069.605	54.2820
08:32:18	28635.740	54.3190	21:20:18	28058.602	54.2810
08:48:18	28627.203	54.3200	21:36:18	28048.344	54.2820
09:04:18	28612.838	54.3160	21:52:18	28036.406	54.2820
09:20:18	28590.154	54.3180	22:08:18	28024.848	54.2780
09:36:18	28596.547	54.3200	22:24:18	28013.564	54.2800
09:52:18	28586.979	54.3150	22:40:18	27998.412	54.2780
10:08:18	28563.275	54.3130	22:56:18	27991.508	54.2790
10:24:18	28557.969	54.3130	23:12:18	27981.436	54.2790
10:40:18	28540.309	54.3120	23:28:18	27968.172	54.2760
10:56:18	28539.500	54.3120	23:44:18	27957.422	54.2770
11:12:18	28523.684	54.3090	**Sat Jun 17, 1995**		
11:28:18	28504.848	54.3040	00:00:18	27946.021	54.2760

Time	Pressure (kPag)	Temperature (degrees C)
Sat Jun 17, 1995		
00:16:18	27932.328	54.2730
00:32:18	27923.828	54.2760
00:48:18	27910.781	54.2730
01:04:18	27899.090	54.2720
01:20:18	27890.912	54.2740
01:36:18	27875.654	54.2700
01:52:18	27860.996	54.2700
02:08:18	27844.473	54.2710
02:24:18	27841.832	54.2710
02:40:18	27832.518	54.2730
02:56:18	27822.736	54.2700
03:12:18	27810.324	54.2660
03:37:48	27783.705	54.2640
08:57:48	27555.602	54.2520
14:17:48	27349.914	54.2380
19:37:48	27146.613	54.2280
Sun Jun 18, 1995		
00:57:48	26957.072	54.2210
06:17:48	26779.533	54.2120
11:37:48	26610.043	54.2020
16:57:48	26449.250	54.1940
22:17:48	26299.350	54.1890
Mon Jun 19, 1995		
03:37:48	26152.865	54.1780
08:57:48	26014.193	54.1700
14:17:48	25863.957	54.1590
19:37:48	25726.223	54.1560
Tue Jun 20, 1995		
00:57:48	25588.678	54.1440
06:17:48	25472.680	54.1400
11:37:48	25342.141	54.1280
16:57:48	25222.016	54.1150
22:17:48	25101.820	54.1040
Wed Jun 21, 1995		
03:37:48	24980.846	54.0980
08:57:48	24867.762	54.0880
14:17:48	24748.455	54.0800
19:37:48	24633.449	54.0710
Thu Jun 22, 1995		
00:57:48	24522.344	54.0740
06:17:48	24419.053	54.0650
11:37:48	24312.414	54.0570
16:57:48	24212.537	54.0500
22:17:48	24130.730	54.0400
Fri Jun 23, 1995		
03:37:48	24123.016	54.0260
06:45:48	24394.570	54.0010
08:21:48	24714.318	53.9450
10:01:48	24981.408	53.7470
11:51:48	25283.828	53.4360
13:37:48	24981.871	53.5120
14:59:48	24927.004	53.9680
16:57:48	24872.406	53.9300
20:21:48	24608.469	53.9750
Sat Jun 24, 1995		
00:27:48	24529.475	53.9740
03:57:48	24426.246	53.9640
08:51:48	24325.559	53.9870
2 - Final Flow		
12:17:48	24251.699	53.9490
12:43:48	25262.477	53.6120
14:49:48	25337.117	53.1460
18:37:48	25600.059	52.8250
23:57:48	25813.309	52.5430
Sun Jun 25, 1995		
05:17:48	25978.934	52.4020
10:27:48	26075.061	52.3640
15:47:48	26215.387	52.3930
21:07:48	26434.461	52.3900
Mon Jun 26, 1995		
02:27:48	26575.488	52.3720
07:47:48	26668.818	52.3460
13:07:48	26753.938	52.3230
18:27:48	26830.707	52.2970
23:47:48	26905.201	52.2660
Tue Jun 27, 1995		
04:57:48	26965.596	52.2690
10:17:48	27041.562	52.2420
15:37:48	27107.102	52.2230
20:57:48	27172.461	52.2050
Wed Jun 28, 1995		
02:17:48	27233.666	52.1900
07:37:48	27293.619	52.1780
12:57:48	27352.896	52.1680
18:17:48	27409.215	52.1600
23:37:48	27464.510	52.1520
Thu Jun 29, 1995		
04:57:48	27517.354	52.1460
10:17:48	27568.754	52.1410
15:37:48	27620.033	52.1360
20:57:48	27669.445	52.1330
Fri Jun 30, 1995		
02:17:48	27717.096	52.1230
07:37:48	27764.012	52.1190
12:57:48	27809.492	52.1130

Time	Pressure (kPag)	Temperature (degrees C)
Fri Jun 30, 1995		
18:17:48	27853.203	52.1100
23:37:48	27896.504	52.1060
Sat Jul 01, 1995		
04:57:48	27938.258	52.1050
10:17:48	27978.521	52.1020
15:37:48	28017.285	52.0990
20:57:48	28055.520	52.0960
Sun Jul 02, 1995		
02:17:48	28093.221	52.0930
07:37:48	28129.633	52.0910
12:57:48	28165.930	52.0880
18:17:48	28201.104	52.0870
23:37:48	28233.736	52.0840
Mon Jul 03, 1995		
04:57:48	28266.877	52.0830
10:17:48	28299.443	52.0790
15:37:48	28330.516	52.0780
20:57:48	28360.328	52.0780
Tue Jul 04, 1995		
02:17:48	28390.324	52.0780
07:37:48	28419.623	52.0760
12:57:48	28448.744	52.0760
18:17:48	28476.953	52.0750
23:37:48	28503.713	52.0730
Wed Jul 05, 1995		
04:57:48	28530.154	52.0740
10:17:48	28555.697	52.0720
15:37:48	28581.215	52.0730
20:57:48	28605.135	52.0730
Thu Jul 06, 1995		
02:17:48	28629.242	52.0720
07:37:48	28653.021	52.0710
12:57:48	28676.152	52.0700
18:17:48	28698.477	52.0710
23:37:48	28721.146	52.0700
Fri Jul 07, 1995		
04:57:48	28742.404	52.0710
10:17:48	28763.725	52.0700
15:37:48	28784.180	52.0690
20:57:48	28804.277	52.0700
Sat Jul 08, 1995		
02:17:48	28824.131	52.0700
07:37:48	28844.586	52.0710
12:57:48	28863.650	52.0710
3 - Final Buildup		
16:57:48	28876.674	52.0720
17:53:48	25959.084	51.9200
19:03:48	28193.084	52.8290
20:23:48	28261.697	53.1660
21:55:48	28701.975	50.9940
23:39:48	28831.969	48.5440
Sun Jul 09, 1995		
01:17:48	28642.107	50.3460
03:59:48	10.818	18.8010

ISO 9002
Reg. Firm 93-05

Accredited by the Dutch Council for Certification

Z.I. Probes Pressure Test Report

COMPANY INFORMATION

Company Name	Hunt Oil Company
Representative	
Phone	(403) 269-3400
Address	1450, 801 - 6th Avenue S.W. Calgary, AB T2P 3W2
Service Company	Solid Resources Ltd.

WELL INFORMATION

Well Name	Port au Port #1
Well Location	NFLD
Field and pool	N/A
Status (oil, gas, water, injection)	Gas
Perforated Intervals	N/A
Mid point of Perforated Intervals (MPP)	N/A
Drilling Rig Number	
Elevations	
Kelly Bushing (KB)	N/A
Casing Flange (CF)	N/A
KB-CF	N/A
Ground Level (GL)	N/A
Plug back total depth	N/A
Total depth	N/A
Production Casing	N/A
Production Tubing	N/A

TEST INFORMATION

Test number / Type of test	Flow and Buildup
Date(s) of test	Jun. 14 - Jul. 09/95
Dead-weight gauge tubing pressure	N/A
Dead-weight gauge casing pressure	N/A
Shut-in date (duration)	Jun. 24/95 (15 days)
Date/time on bottom	Jun. 14/95 @ 04:56
Date/time off bottom	Jul. 09/95 @ 03:21
Run depth at probe pressure port	3398.26 mCF

PRESSURE TEST RESULTS

Maximum recorded probe pressure	35545.79 kPag
Maximum recorded probe temperature	55.00 Degrees C
Final buildup pressure	28934.33 kPag
Gradient Survey Information	Gradient not ran.
Extrapolated pressure to MPP	N/A
Final gradient at depth	N/A
Z.I. Probes Job Number	N/A
Probe Serial Number	N12

PROBE INFORMATION

Probe Serial Number	N12
Model	Level II
Pressure	
Calibrated Pressure Range	0.0 - 68948.0 kPag (0 - 10000 psi)
Accuracy	0.05% FS
Resolution	0.0015% FS
Temperature	
Calibrated Temperature Range	21.3 - 123.4 Degrees C
Accuracy	0.25% FS
Resolution	0.002% FS
Calibration file used for reports	N12AP28A.CAL

PROGRAMMING DETAILS

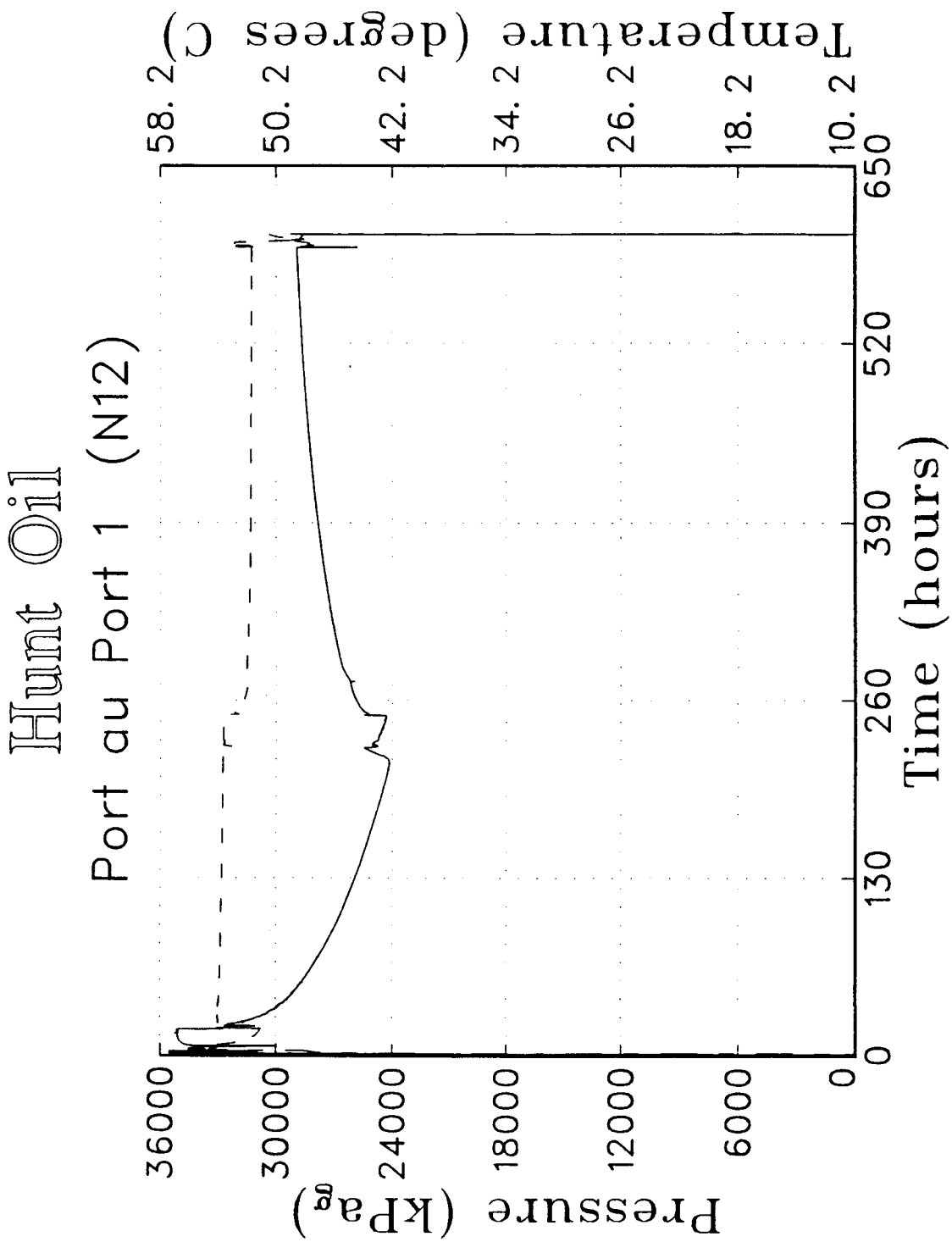
Sequence Step	Sampling Mode	Sample Period	Repetitions of step Count
1	Pause	5 seconds	6 (test mode)
2	Normal	30 seconds	8640 (3 days)
3	Delta Pressure On	2 minutes	4 count @ 0.5 psi
4	Normal	10 minutes	4032 (28 days)
5	Delta Pressure On	30 seconds	3 count @ 0.5 psi
6	Normal	2 minutes	5040 (7 days)
7	Overrun	2 minutes	to end of memory

Program start time	Jun. 14/95 @ 03:30:57
Program end time	Jul. 09/95 @ 04:00:27
Total Samples Taken	12155
Usage for this test	0.6730 Ah
Generic Data File Name	N12JL09A.GEN
Reported by	Tim Anderson

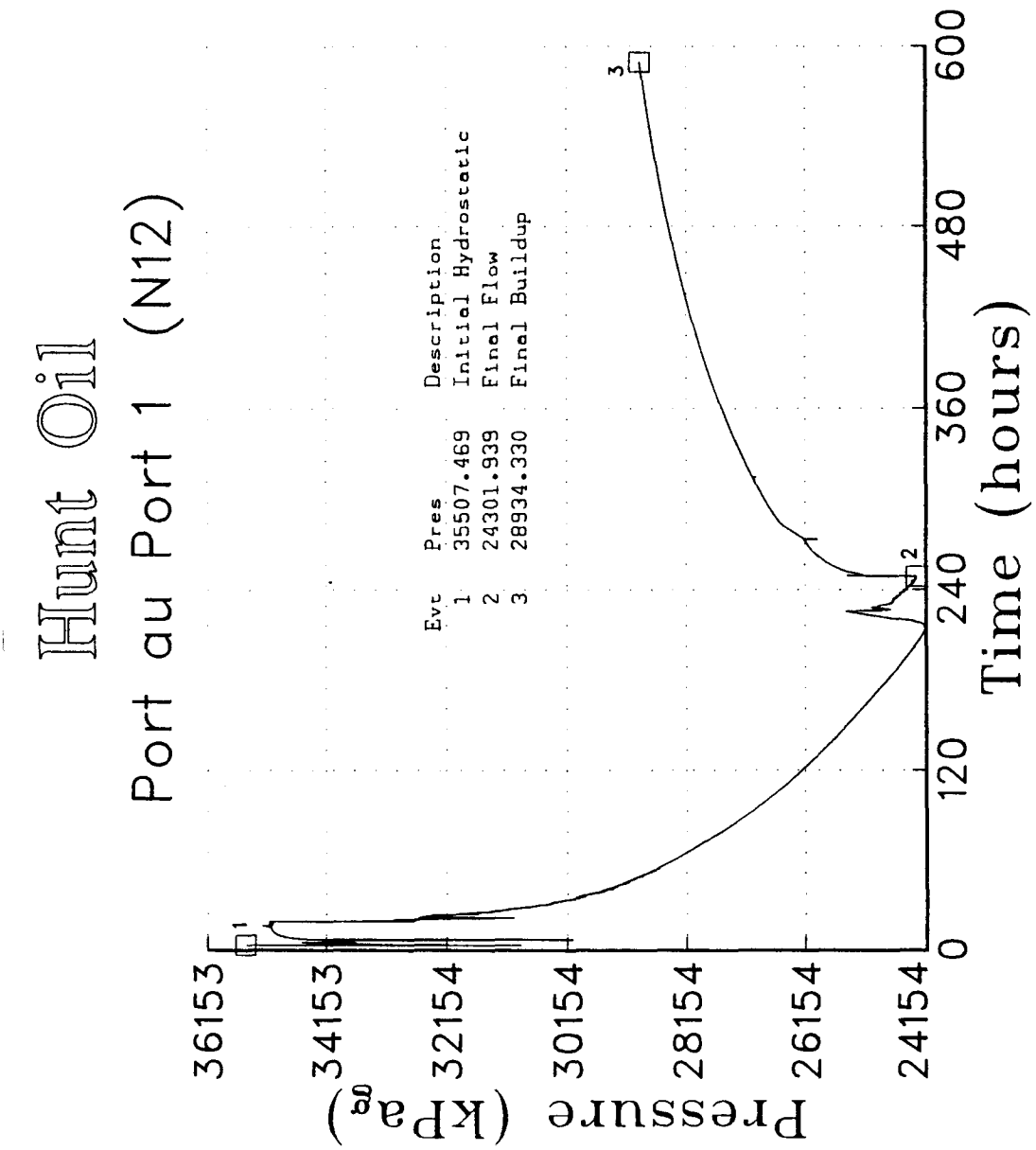
COMMENTS

Probes M47 and N12 were used on this test and maintained Level II accuracy throughout. The data from both probes is recommended for reservoir analysis.

ZIPGRAPH 3. 1b6 for Z. I. Probes, Edmonton July 10, 1995 16:37:55



ZIPGRAPH 3. 1b6 for Z. I. Probes, Edmonton July 10, 1995 16:48:05



Data Listing: Every 32th point of the generic data file.

Probe Number: N12
Company: Hunt Oil Company
Well: Port au Port #1
Location: NFLD
Field: N/A
Test Date(s): Jun. 14 - Jul. 09/95

Time	Pressure (kPag)	Temperature (degrees C)	Time	Pressure (kPag)	Temperature (degrees C)
Wed Jun 14, 1995			12:02:57	34863.859	53.2430
03:30:57	0.000	16.7280	12:18:57	34890.664	53.0710
03:46:57	0.000	13.9830	12:34:57	34914.086	52.9160
04:02:57	0.000	11.3970	12:50:57	34934.777	52.7770
04:18:57	0.000	10.3140	13:06:57	34952.969	52.6540
04:34:57	12355.992	12.2910	13:22:57	34968.883	52.5410
04:50:57	32267.254	30.3370	13:38:57	34982.934	52.4410
Maximum Recorded Pressure			13:54:57	34995.660	52.3500
04:55:57	35545.785	39.4040	14:10:57	35006.871	52.2620
05:06:57	35533.922	46.1910	14:26:57	35017.973	52.1850
05:22:57	35527.105	47.2730	14:42:57	35033.988	52.1160
05:38:57	35520.867	47.6230	14:58:57	35033.523	52.0500
05:54:57	35515.059	47.8510	15:14:57	35040.488	51.9890
06:10:57	35509.426	48.0100	15:30:57	35047.246	51.9330
1 - Initial Hydrostatic			15:46:57	35053.102	51.8800
06:17:27	35507.469	48.0610	16:02:57	35058.398	51.8300
06:26:57	33457.828	48.1420	16:18:57	35063.258	51.7810
06:42:57	33162.117	51.8260	16:34:57	35066.715	51.7360
06:58:57	33745.938	54.5090	16:50:57	35069.223	51.6940
07:14:57	33912.977	54.7870	17:06:57	35072.375	51.6510
07:30:57	33799.039	54.7430	17:22:57	35075.336	51.6100
07:46:57	34367.332	54.7030	17:38:57	35077.230	51.5740
08:02:57	34542.727	54.5640	17:54:57	35080.121	51.5430
08:18:57	34480.848	54.4130	18:10:57	35081.539	51.5140
08:34:57	34252.293	54.2470	18:26:57	35102.543	51.4880
08:50:57	34147.641	54.2420	18:42:57	35138.410	51.4730
09:06:57	33908.332	54.3120	18:58:57	35157.078	51.4520
09:22:57	33696.883	54.4090	19:14:57	35167.730	51.4320
09:38:57	32567.930	54.4210	19:30:57	35082.730	51.3990
09:54:57	32434.344	54.4050	19:46:57	35071.281	51.3680
10:10:57	31121.328	54.5210	20:02:57	35066.777	51.3550
10:26:57	34432.445	54.9700	20:18:57	35070.484	51.3380
Maximum Recorded Temperature			20:34:57	35068.863	51.3180
10:29:57	34477.086	54.9960	20:50:57	35055.902	51.3010
10:42:57	34603.168	54.7330	21:06:57	35053.309	51.2830
10:58:57	34691.062	54.2860	21:22:57	35070.664	51.2680
11:14:57	34751.383	53.9450	21:38:57	35100.434	51.2510
11:30:57	34796.500	53.6680	21:54:57	35085.750	51.2360
11:46:57	34832.648	53.4410	22:10:57	35040.316	51.2200

Time	Pressure (kPag)	Temperature (degrees C)	Time	Pressure (kPag)	Temperature (degrees C)
Wed Jun 14, 1995 MDD			10:42:57	30400.744	54.1880
22:26:57	33374.602	51.2250	10:58:57	30408.801	54.1840
22:42:57	32750.504	52.4510	11:14:57	30335.035	54.1770
22:58:57	32837.523	53.6930	11:30:57	30335.299	54.2030
23:14:57	32925.215	53.9130	11:46:57	30280.174	54.1720
23:30:57	32892.188	53.9190	12:02:57	30253.463	54.1790
23:46:57	32490.691	53.9230	12:18:57	30210.889	54.1850
Thu Jun 15, 1995			12:34:57	30200.631	54.1890
00:02:57	32181.602	53.9950	12:50:57	30109.764	54.1780
00:18:57	32039.898	54.1060	13:06:57	30068.836	54.1870
00:34:57	31140.490	54.1370	13:22:57	30026.613	54.1980
00:50:57	32145.070	54.2720	13:38:57	29993.451	54.1980
01:06:57	32558.234	54.3870	13:54:57	30001.205	54.2000
01:22:57	32510.146	54.1770	14:10:57	30004.014	54.1960
01:38:57	32370.045	54.1660	14:26:57	29961.449	54.1910
01:54:57	32442.689	54.1800	14:42:57	29918.434	54.1710
02:10:57	32376.900	54.1640	14:58:57	29900.145	54.1670
02:26:57	32289.662	54.2010	15:14:57	29958.895	54.1660
02:42:57	32101.605	54.1760	15:30:57	29933.941	54.1550
02:58:57	31987.494	54.1380	15:46:57	29890.176	54.1400
03:14:57	31710.074	54.1060	16:02:57	29873.402	54.1400
03:30:57	31912.904	54.1360	16:18:57	29843.881	54.1390
03:46:57	31797.771	54.1430	16:34:57	29806.441	54.1300
04:02:57	31699.150	54.1470	16:50:57	29778.795	54.1280
04:18:57	31660.461	54.1180	17:06:57	29747.943	54.1210
04:34:57	31519.711	54.1030	17:22:57	29705.750	54.1140
04:50:57	31414.086	54.1370	17:38:57	29684.191	54.1100
05:06:57	31404.635	54.1290	17:54:57	29637.365	54.1140
05:22:57	31315.639	54.1710	18:10:57	29597.023	54.1150
05:38:57	31285.408	54.1770	18:26:57	29585.715	54.1130
05:54:57	31196.570	54.1720	18:42:57	29562.961	54.1120
06:10:57	31139.793	54.1890	18:58:57	29557.016	54.1100
06:26:57	31111.793	54.1840	19:14:57	29544.457	54.1050
06:42:57	31073.516	54.1580	19:30:57	29516.896	54.1010
06:58:57	31016.539	54.1490	19:46:57	29410.129	54.0980
07:14:57	30952.682	54.1650	20:02:57	29491.326	54.1020
07:30:57	30884.195	54.1700	20:18:57	29442.367	54.0980
07:46:57	30820.039	54.1720	20:34:57	29391.145	54.0900
08:02:57	30760.123	54.1810	20:50:57	29394.049	54.0940
08:18:57	30741.432	54.1870	21:06:57	29379.438	54.0940
08:34:57	30688.604	54.1860	21:22:57	29342.379	54.0950
08:50:57	30641.408	54.1820	21:38:57	29345.059	54.0910
09:06:57	30596.891	54.1840	21:54:57	29342.799	54.0930
09:22:57	30527.115	54.1820	22:10:57	29307.027	54.0850
09:38:57	30501.264	54.1910	22:26:57	29299.479	54.0850
09:54:57	30469.383	54.1880	22:42:57	29261.225	54.0800
10:10:57	30446.035	54.1970	22:58:57	29245.199	54.0790
10:26:57	30421.650	54.1840	23:14:57	29234.764	54.0850

Time	Pressure (kPag)	Temperature (degrees C)
Thu Jun 15, 1995		
23:30:57	29212.268	54.0840
23:46:57	29186.742	54.0810
Fri Jun 16, 1995		
00:02:57	29177.676	54.0820
00:18:57	29174.717	54.0790
00:34:57	29167.740	54.0780
00:50:57	29143.936	54.0760
01:06:57	29139.078	54.0770
01:22:57	29113.600	54.0740
01:38:57	29101.211	54.0720
01:54:57	29081.139	54.0710
02:10:57	29057.705	54.0720
02:26:57	29027.486	54.0690
02:42:57	29044.713	54.0700
02:58:57	29027.549	54.0660
03:14:57	29002.395	54.0660
03:30:57	28993.471	54.0660
03:46:57	28966.160	54.0640
04:02:57	28945.361	54.0640
04:18:57	28940.389	54.0620
04:34:57	28938.133	54.0630
04:50:57	28909.629	54.0590
05:06:57	28887.992	54.0590
05:22:57	28875.814	54.0580
05:38:57	28859.900	54.0580
05:54:57	28845.061	54.0540
06:10:57	28838.867	54.0530
06:26:57	28809.477	54.0540
06:42:57	28806.914	54.0530
06:58:57	28791.721	54.0540
07:14:57	28775.160	54.0500
07:30:57	28754.439	54.0500
07:46:57	28737.250	54.0500
08:02:57	28719.801	54.0480
08:18:57	28719.602	54.0500
08:34:57	28681.236	54.0480
08:50:57	28686.990	54.0490
09:06:57	28656.105	54.0460
09:22:57	28651.539	54.0480
09:38:57	28645.760	54.0490
09:54:57	28634.330	54.0440
10:10:57	28612.951	54.0400
10:26:57	28607.148	54.0420
10:42:57	28574.242	54.0400
10:58:57	28577.963	54.0420
11:14:57	28568.309	54.0380
11:30:57	28554.824	54.0360
11:46:57	28542.820	54.0370
12:02:57	28529.209	54.0360
12:18:57	28517.668	54.0360
12:34:57	28505.033	54.0350
12:50:57	28491.611	54.0330
13:06:57	28478.652	54.0330
13:22:57	28466.156	54.0320
13:38:57	28454.666	54.0320
13:54:57	28442.543	54.0300
14:10:57	28428.900	54.0280
14:26:57	28415.143	54.0280
14:42:57	28403.230	54.0290
14:58:57	28390.656	54.0290
15:14:57	28377.908	54.0270
15:30:57	28365.279	54.0270
15:46:57	28354.109	54.0270
16:02:57	28342.039	54.0270
16:18:57	28329.562	54.0250
16:34:57	28316.727	54.0240
16:50:57	28304.910	54.0220
17:06:57	28293.895	54.0210
17:22:57	28281.539	54.0210
17:38:57	28269.508	54.0200
17:54:57	28258.689	54.0200
18:10:57	28247.990	54.0180
18:26:57	28235.734	54.0180
18:42:57	28224.240	54.0170
18:58:57	28213.152	54.0170
19:14:57	28201.857	54.0170
19:30:57	28189.381	54.0160
19:46:57	28178.137	54.0140
20:02:57	28167.344	54.0140
20:18:57	28154.803	54.0140
20:34:57	28146.357	54.0140
20:50:57	28134.404	54.0120
21:06:57	28118.689	54.0120
21:22:57	28108.389	54.0120
21:38:57	28096.393	54.0130
21:54:57	28086.887	54.0130
22:10:57	28074.891	54.0110
22:26:57	28063.637	54.0100
22:42:57	28048.904	54.0100
22:58:57	28041.246	54.0110
23:14:57	28030.559	54.0100
23:30:57	28017.158	54.0080
23:46:57	28006.207	54.0090
Sat Jun 17, 1995		
00:02:57	27994.150	54.0070

Time	Pressure (kPag)	Temperature (degrees C)
Sat Jun 17, 1995		
00:18:57	27984.812	54.0080
00:34:57	27972.199	54.0060
00:50:57	27961.771	54.0060
01:06:57	27949.350	54.0040
01:22:57	27936.543	54.0040
01:38:57	27924.613	54.0010
01:54:57	27910.818	54.0020
02:10:57	27895.840	54.0020
02:26:57	27891.303	54.0060
02:42:57	27883.941	54.0030
02:58:57	27872.246	54.0020
03:14:57	27859.572	53.9980
03:40:27	27832.580	53.9940
09:00:27	27603.523	53.9830
14:20:27	27401.062	53.9720
19:40:27	27196.225	53.9650
Sun Jun 18, 1995		
01:00:27	27007.855	53.9560
06:20:27	26829.416	53.9500
11:40:27	26658.814	53.9410
17:00:27	26498.076	53.9350
22:20:27	26350.670	53.9310
Mon Jun 19, 1995		
03:40:27	26203.424	53.9220
09:00:27	26065.648	53.9160
14:20:27	25916.514	53.9070
19:40:27	25777.080	53.9060
Tue Jun 20, 1995		
01:00:27	25640.076	53.8950
06:20:27	25524.561	53.8920
11:40:27	25393.748	53.8840
17:00:27	25272.553	53.8760
22:20:27	25154.350	53.8670
Wed Jun 21, 1995		
03:40:27	25034.723	53.8640
09:00:27	24923.479	53.8570
14:20:27	24802.826	53.8520
19:40:27	24688.484	53.8460
Thu Jun 22, 1995		
01:00:27	24576.293	53.8490
06:20:27	24472.418	53.8430
11:40:27	24367.287	53.8380
17:00:27	24266.891	53.8340
22:20:27	24184.732	53.8290
Fri Jun 23, 1995		
03:40:27	24177.973	53.8160
06:54:27	24491.389	53.7880
08:42:27	24830.365	53.6930
10:32:27	25125.295	53.4570
12:34:27	25428.008	53.1250
14:08:27	24836.270	53.6290
15:32:27	24979.959	53.7340
17:48:27	24795.178	53.7100
21:52:27	24665.381	53.7640
Sat Jun 24, 1995		
00:54:27	24577.775	53.7680
04:30:27	24464.934	53.7530
08:58:27	24380.281	53.7840
2 - Final Flow		
12:20:27	24301.939	53.7570
12:52:27	25419.059	53.1200
15:08:27	25426.721	52.8750
19:12:27	25682.102	52.5750
Sun Jun 25, 1995		
00:30:27	25884.555	52.3170
05:50:27	26042.156	52.1740
11:00:27	26138.621	52.1250
16:00:27	26276.492	52.1820
21:20:27	26495.109	52.1830
Mon Jun 26, 1995		
02:40:27	26631.463	52.1530
08:00:27	26725.582	52.1300
13:20:27	26810.639	52.1070
18:40:27	26888.023	52.0870
Tue Jun 27, 1995		
00:00:27	26960.861	52.0600
05:20:27	27029.699	52.0570
10:30:27	27097.789	52.0300
15:50:27	27163.771	52.0130
21:10:27	27228.768	51.9990
Wed Jun 28, 1995		
02:30:27	27290.242	51.9840
07:50:27	27349.916	51.9720
13:10:27	27409.031	51.9600
18:30:27	27465.695	51.9520
23:50:27	27520.752	51.9450
Thu Jun 29, 1995		
05:10:27	27573.529	51.9390
10:30:27	27625.814	51.9320
15:50:27	27676.188	51.9280
21:10:27	27726.252	51.9220
Fri Jun 30, 1995		
02:30:27	27773.332	51.9150
07:50:27	27820.318	51.9100
13:10:27	27866.135	51.9060

Time	Pressure (kPag)	Temperature (degrees C)
Fri Jun 30, 1995		
18:30:27	27909.957	51.9010
23:50:27	27953.520	51.8980
Sat Jul 01, 1995		
05:10:27	27995.102	51.8950
10:30:27	28035.777	51.8920
15:50:27	28073.871	51.8900
21:10:27	28112.328	51.8870
Sun Jul 02, 1995		
02:30:27	28149.945	51.8850
07:50:27	28186.328	51.8820
13:10:27	28222.406	51.8790
18:30:27	28257.572	51.8780
23:50:27	28291.633	51.8770
Mon Jul 03, 1995		
05:10:27	28324.604	51.8760
10:30:27	28356.738	51.8740
15:50:27	28386.934	51.8720
21:10:27	28417.400	51.8720
Tue Jul 04, 1995		
02:30:27	28448.037	51.8700
07:50:27	28477.465	51.8700
13:10:27	28505.936	51.8680
18:30:27	28534.123	51.8680
23:50:27	28561.178	51.8680
Wed Jul 05, 1995		
05:10:27	28587.742	51.8670
10:30:27	28612.467	51.8660
15:50:27	28638.160	51.8670
21:10:27	28662.818	51.8660
Thu Jul 06, 1995		
02:30:27	28686.535	51.8650
07:50:27	28710.293	51.8660
13:10:27	28733.273	51.8650
18:30:27	28755.943	51.8650
23:50:27	28778.527	51.8650
Fri Jul 07, 1995		
05:10:27	28799.854	51.8660
10:30:27	28820.871	51.8650
15:50:27	28841.707	51.8650
21:10:27	28862.230	51.8660
Sat Jul 08, 1995		
02:30:27	28881.834	51.8660
07:50:27	28902.188	51.8670
13:10:27	28921.219	51.8670
3 - Final Buildup		
16:50:27	28934.330	51.8680
17:48:27	26163.377	51.8890
18:54:27	28197.795	52.1220
20:16:27	28356.924	53.0290
21:58:27	28787.691	50.6990
23:44:27	28860.035	48.4260
Sun Jul 09, 1995		
01:36:27	28681.287	50.2480
04:00:27	60.219	18.1230

ISO 9002
Reg. Firm 93-05

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Z.I. Probes Pressure Test Report

COMPANY INFORMATION

Company Name	Hunt Oil Company
Representative	Mark Griffin
Phone	(403) 269-3400
Address	1450, 801 - 6th Avenue S.W. Calgary, AB T2P 3W2
Service Company	Solid Resources

WELL INFORMATION

Well Name	Port au Port 1
Well Location	Newfoundland
Field and pool	N/A
Status (oil, gas, water, injection)	Oil
Perforated Intervals	N/A
Mid point of Perforated Intervals (MPP)	N/A
Drilling Rig Number	
Elevations	
Kelly Bushing (KB)	N/A
Casing Flange (CF)	N/A
KB-CF	N/A
Ground Level (GL)	N/A
Plug back total depth	N/A
Total depth	N/A
Production Casing	N/A
Production Tubing	N/A

TEST INFORMATION

Test number / Type of test	Flow & Buildup / S.G.
Date(s) of test	July 09 - 28/95
Dead-weight gauge tubing pressure	10,866 kPag, 07/28/95 @ 09:30
Dead-weight gauge casing pressure	N/A
Shut-in date (duration)	Jul. 14/95 (14 days)
Date/time on bottom	Jul. 09/95 @ 05:51
Date/time off bottom	Jul. 28/95 @ 09:48
Run depth at probe pressure port	3391.76 mCF

PRESSURE TEST RESULTS

Maximum recorded probe pressure	29494.63 kPag
Maximum recorded probe temperature	54.09 Degrees C
Final buildup pressure	27465.95 kPag Pressure test 7
Gradient Survey Information	
Extrapolated pressure to MPP	27542.34 kPag
Final gradient at depth	5.877 kPa/m
Z.I. Probes Job Number	
Probe Serial Number	M47

PROBE INFORMATION

Probe Serial Number	M47
Model	Level II
Pressure	
Calibrated Pressure Range	0.0 - 68948.0 kPag (0 - 10000 psi)
Accuracy	0.05% FS
Resolution	0.0015% FS
Temperature	
Calibrated Temperature Range	23.1 - 123.6 Degrees C
Accuracy	0.25% FS
Resolution	0.002% FS
Calibration file used for reports	M47MY04A.CAL

PROGRAMMING DETAILS

Sequence Step	Sampling Mode	Sample Period	Repetitions of step Count
1	Pause	5 seconds	6 (test mode)
2	Normal	30 seconds	8640 (3 days)
3	Delta Pressure On	2 minutes	4 count @ 0.5 psi
4	Normal	10 minutes	4032 (28 days)
5	Delta Pressure On	30 seconds	3 count @ 0.5 psi
6	Normal	2 minutes	5040 (7 days)
7	Overrun	2 minutes	to end of memory

Program start time	Jul. 09/95 @ 04:38:27
Program end time	Jul. 28/95 @ 12:27:57
Total Samples Taken	11487
Usage for this test	1.0647 Ah
Generic Data File Name	M47JL28A.GEN
Reported by	Bradley Lee

COMMENTS

Probes M47 and N12 were used on this test and maintained Level II accuracy throughout. The data from both probes is recommended for reservoir analysis.

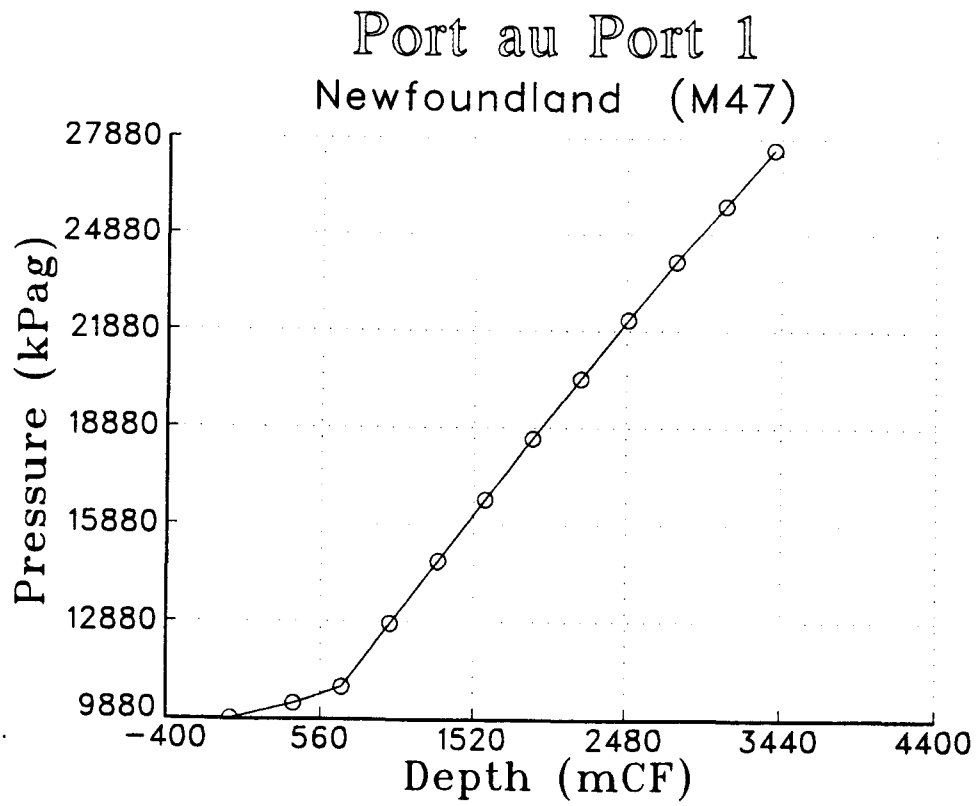
NOTE: As no perforated intervals were provided, the probe run depth was used as the mid-point of perforations (MPP) for the pressure vs depth plot.

Pressure vs. Depth

Probe	M47
Company	Hunt Oil Company
Well Name	Port au Port 1
Well Location	Newfoundland
Field and Pool	N/A
Date of Test	July 09 - 28/95

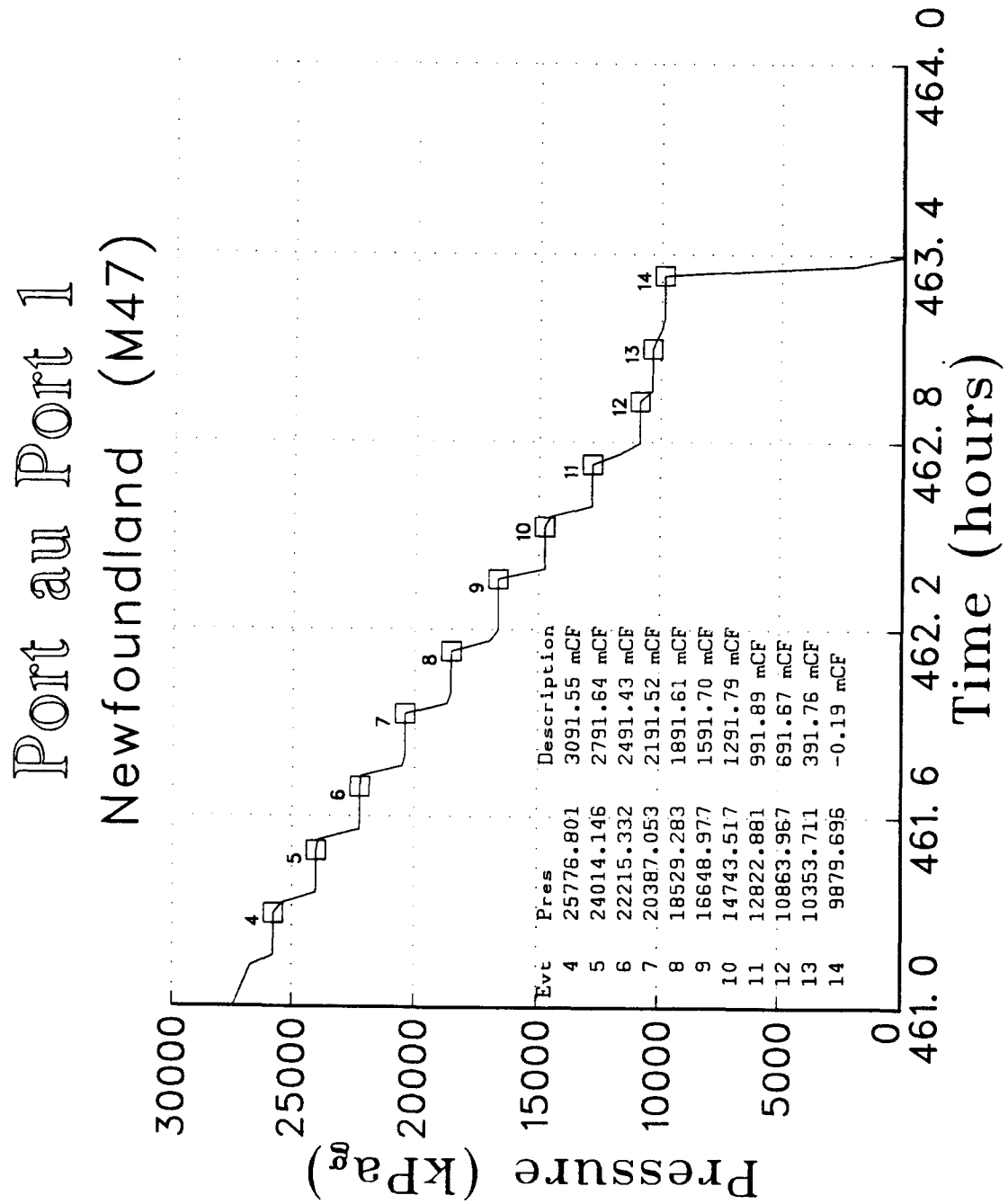
Stop Time From	To	Depth (mCF)	Pressure (kPag)	Gradient (kPa/m)
09:50	10:00	3091.550	25776.801	5.8773
10:03	10:13	2791.640	24014.146	5.8773
10:15	10:25	2491.430	22215.332	5.9919
10:28	10:38	2191.520	20387.053	6.0961
10:40	10:50	1891.610	18529.283	6.1944
10:52	11:02	1591.700	16648.977	6.2696
11:05	11:15	1291.790	14743.517	6.3534
11:16	11:26	991.890	12822.881	6.4043
11:28	11:38	691.670	10863.967	6.5249
11:39	11:49	391.760	10353.711	1.7014
11:53	12:03	-0.190	9879.696	1.2094

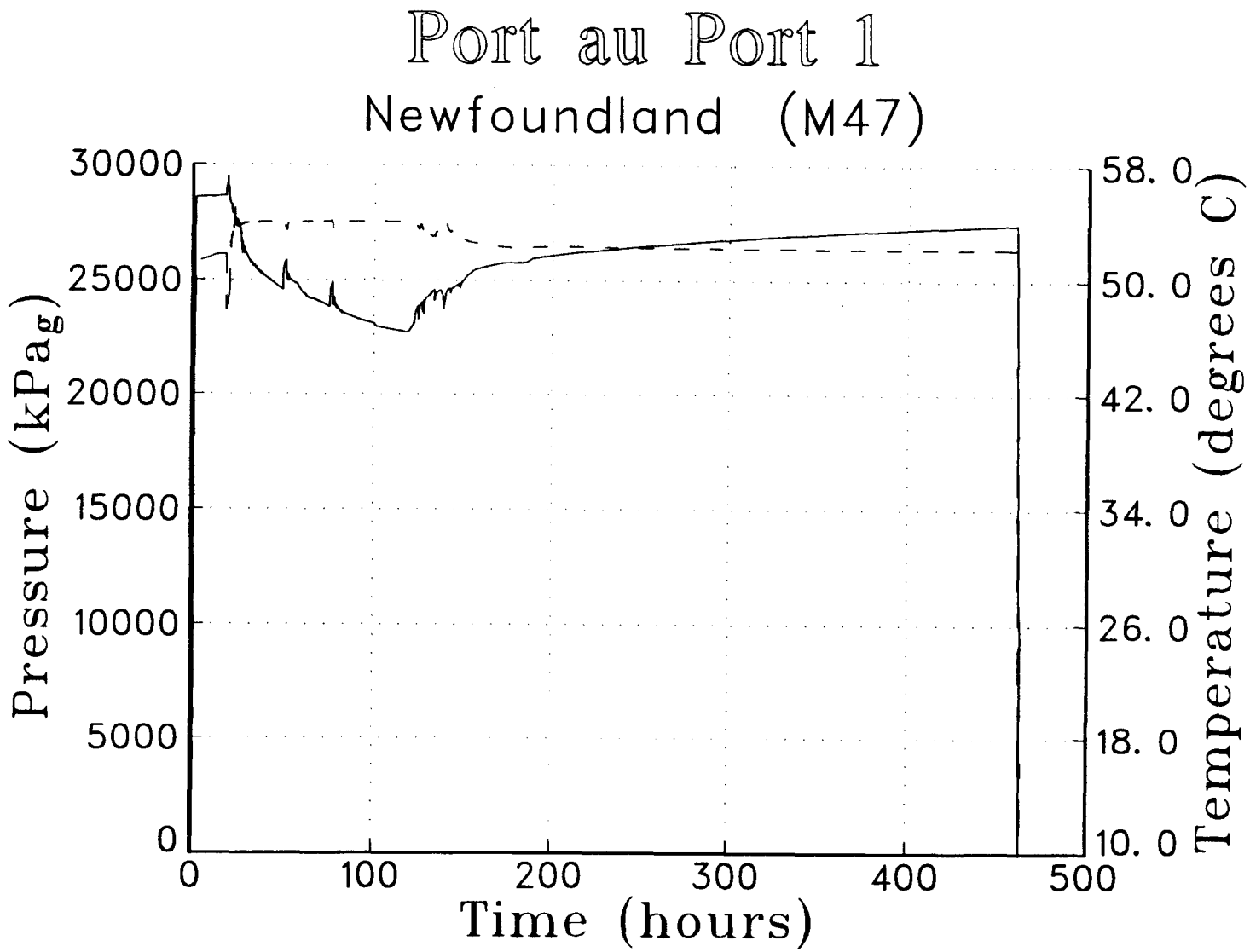
MPP Pressure extrapolated using a least-squares fit:
3391.950 27542.336



ZIPGRAPH 3.1b6 for Z.I. Probes, Edmonton July 31, 1995 10:35:54

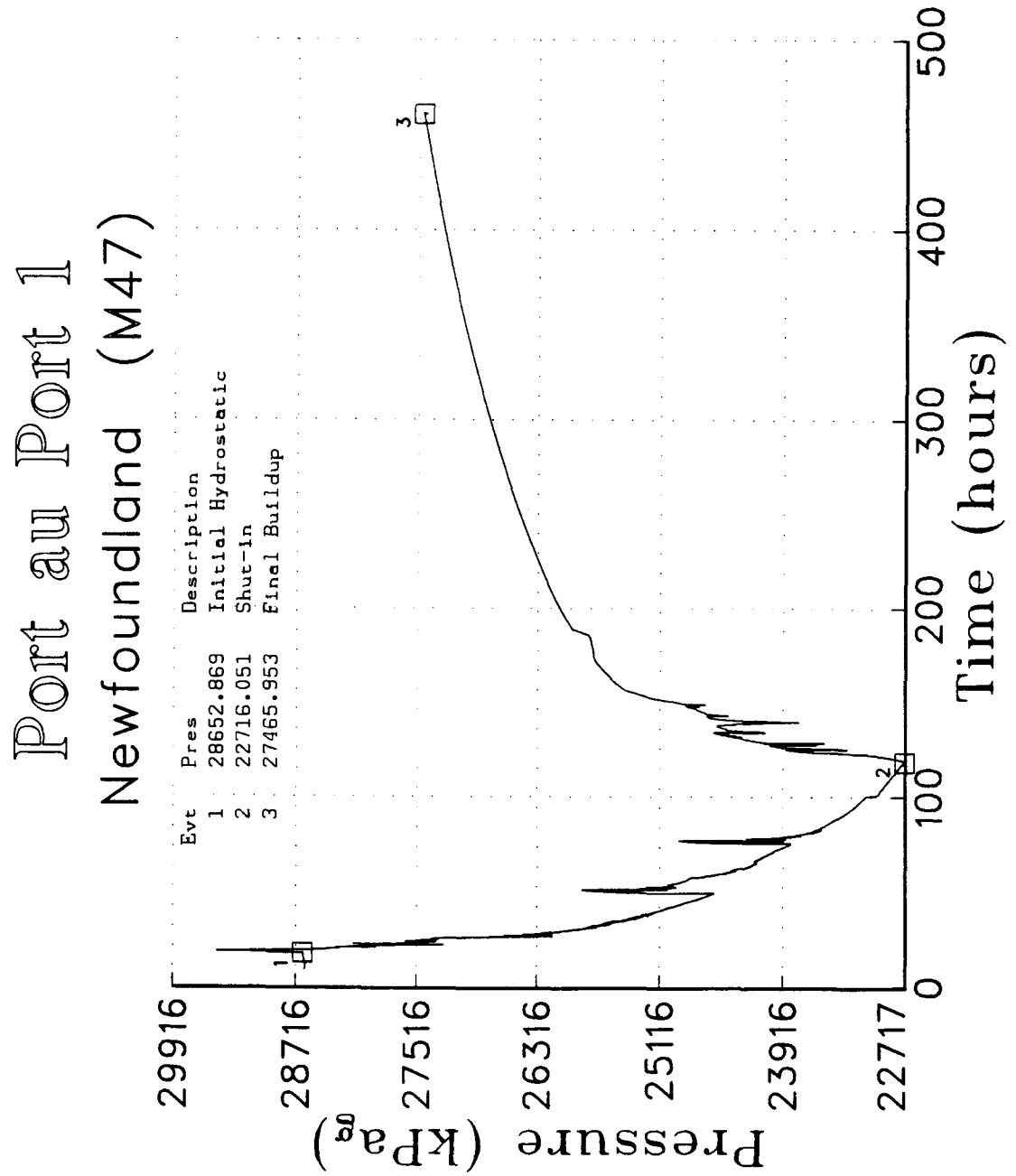
ZIPGRAPH 3. 1b6 for Z. I. Probes, Edmonton July 31, 1995 09:47:27





ZIPGRAPH 3.1b6 for Z.I. Probes, Edmonton July 31, 1995 09:04:29

ZIPGRAPH 3. 1b6 for Z. I. Probes, Edmonton July 31, 1995 09:12:51



Data Listing: Every 30th point of the generic data file.

Probe Number: M47
Company: Hunt Oil Company
Well: Port au Port 1
Location: Newfoundland
Field: N/A
Test Date(s): July 09 - 28/95

Time	Pressure (kPag)	Temperature (degrees C)	Time	Pressure (kPag)	Temperature (degrees C)
Sun Jul 09, 1995			14:08:27	28624.752	51.5410
04:38:27	10.629	17.5580	14:23:27	28622.943	51.5600
04:53:27	10.995	17.6370	14:38:27	28622.162	51.5780
05:08:27	10.260	16.8920	14:53:27	28622.078	51.5930
05:23:27	1341.259	17.5870	15:08:27	28620.328	51.6110
05:38:27	28327.771	30.0810	15:23:27	28620.262	51.6280
05:53:27	28585.205	50.5460	15:38:27	28620.193	51.6420
06:08:27	28586.703	51.1710	15:53:27	28621.271	51.6550
06:23:27	28592.449	51.2060	16:08:27	28622.412	51.6660
06:38:27	28600.287	51.2210	16:23:27	28623.039	51.6770
06:53:27	28603.422	51.2220	16:38:27	28624.236	51.6860
07:08:27	28605.199	51.2250	16:53:27	28627.121	51.6960
07:23:27	28606.828	51.2340	17:08:27	28629.270	51.7020
07:38:27	28607.646	51.2460	17:23:27	28631.338	51.7090
07:53:27	28608.592	51.2630	17:38:27	28632.912	51.7130
08:08:27	28609.746	51.2770	17:53:27	28634.312	51.7180
08:23:27	28611.158	51.2910	18:08:27	28634.990	51.7210
08:38:27	28612.443	51.3030	18:23:27	28635.660	51.7240
08:53:27	28610.820	51.3160	18:38:27	28637.381	51.7270
09:08:27	28613.242	51.3350	18:53:27	28638.592	51.7290
09:23:27	28614.295	51.3490	19:08:27	28639.518	51.7270
09:38:27	28615.607	51.3610	19:23:27	28641.154	51.7310
09:53:27	28617.090	51.3760	19:38:27	28641.346	51.7310
10:08:27	28617.648	51.3860	19:53:27	28643.240	51.7330
10:23:27	28619.240	51.3940	20:08:27	28644.291	51.7320
10:38:27	28619.969	51.4030	20:23:27	28645.291	51.7330
10:53:27	28620.705	51.4130	20:38:27	28646.365	51.7340
11:08:27	28621.518	51.4230	20:53:27	28647.412	51.7340
11:23:27	28622.268	51.4320	21:08:27	28648.338	51.7360
11:38:27	28623.105	51.4400	21:23:27	28648.807	51.7370
11:53:27	28623.943	51.4500	21:38:27	28649.742	51.7380
12:08:27	28624.758	51.4600	21:53:27	28650.557	51.7410
12:23:27	28625.451	51.4700	22:08:27	28651.715	51.7400
12:38:27	28626.441	51.4790	22:23:27	28652.691	51.7420
12:53:27	28627.498	51.4890	**1 - Initial Hydrostatic**		
13:08:27	28627.627	51.4960	22:27:57	28652.869	51.7420
13:23:27	28628.209	51.5060	22:38:27	29004.260	49.8110
13:38:27	28628.084	51.5170	22:53:27	29128.090	47.6310
13:53:27	28628.795	51.5310	23:08:27	28953.139	47.5510

Time	Pressure (kPag)	Temperature (degrees C)	Time	Pressure (kPag)	Temperature (degrees C)
Sun Jul 09, 1995			10:23:27	26018.709	53.9390
Maximum Recorded Pressure			10:38:27	25967.898	53.9470
23:17:27	29494.625	47.8590	10:53:27	25926.029	53.9600
23:23:27	29099.463	47.8670	11:08:27	25907.389	53.9570
23:38:27	29024.635	48.4220	11:23:27	25871.465	53.9640
23:53:27	28875.992	48.8620	11:38:27	25834.104	53.9590
Mon Jul 10, 1995			11:53:27	25785.795	53.9570
00:08:27	28560.406	49.1550	12:08:27	25732.240	53.9700
00:23:27	28454.709	49.8570	12:23:27	25799.939	53.9880
00:38:27	28378.123	51.4480	12:38:27	25787.352	53.9670
00:53:27	28299.361	52.4770	12:53:27	25725.994	53.9690
01:08:27	28318.898	52.8270	13:08:27	25694.023	53.9730
01:23:27	28275.465	52.9820	13:23:27	25691.033	53.9570
01:38:27	27998.314	53.1490	13:38:27	25615.006	53.9730
01:53:27	28095.121	53.2820	13:53:27	25643.686	53.9750
02:08:27	28014.217	53.3620	14:08:27	25631.820	53.9750
02:23:27	27884.979	53.3830	14:23:27	25616.945	53.9730
02:38:27	27558.955	53.5050	14:38:27	25592.828	53.9610
02:53:27	27411.791	53.6440	14:53:27	25561.594	53.9580
03:08:27	28098.840	53.6300	15:08:27	25532.525	53.9490
03:23:27	27602.369	53.4550	15:23:27	25458.859	53.9570
03:38:27	27597.648	53.6090	15:38:27	25466.023	53.9460
03:53:27	27516.074	53.6830	15:53:27	25459.309	53.9570
04:08:27	27625.697	53.7110	16:08:27	25442.350	53.9750
04:23:27	27334.449	53.7300	16:23:27	25413.629	53.9560
04:38:27	27538.283	53.7520	16:38:27	25381.191	53.9550
04:53:27	27554.580	53.7510	16:53:27	25363.162	53.9690
05:08:27	27443.471	53.7340	17:08:27	25372.305	53.9740
05:23:27	27373.570	53.7470	17:23:27	25353.584	53.9710
05:38:27	27329.090	53.7860	17:38:27	25311.514	53.9690
05:53:27	27341.557	53.8230	17:53:27	25281.973	53.9710
06:08:27	27317.262	53.8250	18:08:27	25286.393	53.9760
06:23:27	27221.752	53.8010	18:23:27	25285.607	53.9780
06:38:27	27035.744	53.7840	18:38:27	25277.088	53.9750
06:53:27	26807.994	53.7730	18:53:27	25238.756	53.9730
07:08:27	26615.414	53.8000	19:08:27	25226.291	53.9730
07:23:27	26269.377	53.8140	19:23:27	25211.479	53.9700
07:38:27	26509.980	53.9260	19:38:27	25190.611	53.9710
07:53:27	26457.959	53.9110	19:53:27	25171.707	53.9730
08:08:27	26459.742	53.9030	20:08:27	25160.697	53.9740
08:23:27	26439.461	53.9000	20:23:27	25144.102	53.9780
08:38:27	26311.094	53.8990	20:38:27	25125.754	53.9770
08:53:27	26276.998	53.9190	20:53:27	25111.637	53.9780
09:08:27	26242.289	53.9180	21:08:27	25098.846	53.9820
09:23:27	26190.289	53.9170	21:23:27	25085.076	53.9810
09:38:27	26139.510	53.9240	21:38:27	25069.633	53.9800
09:53:27	26097.898	53.9330	21:53:27	25057.746	53.9830
10:08:27	26066.322	53.9370	22:08:27	25043.541	53.9830

Time	Pressure (kPag)	Temperature (degrees C)	Time	Pressure (kPag)	Temperature (degrees C)
Mon Jul 10, 1995			09:23:27	25062.023	53.9310
22:23:27	25028.801	53.9830	09:38:27	25029.271	53.9530
22:38:27	25008.678	53.9820	09:53:27	24998.521	53.9670
22:53:27	24990.551	53.9810	10:08:27	25029.592	53.9780
23:08:27	24971.711	53.9840	10:23:27	25019.275	53.9730
23:23:27	24955.408	53.9840	10:38:27	25004.578	53.9650
23:38:27	24941.898	53.9850	10:53:27	24975.178	53.9620
23:53:27	24928.576	53.9880	11:08:27	24958.652	53.9630
Tue Jul 11, 1995			11:23:27	24937.752	53.9650
00:08:27	24913.971	53.9890	11:38:27	24920.264	53.9660
00:23:27	24902.936	53.9880	11:53:27	24901.945	53.9680
00:38:27	24889.809	53.9880	12:08:27	24890.178	53.9720
00:53:27	24876.281	53.9900	12:23:27	24875.949	53.9720
01:08:27	24861.402	53.9890	12:38:27	24863.922	53.9760
01:23:27	24841.615	53.9850	12:53:27	24855.217	53.9800
01:38:27	24824.699	53.9850	13:08:27	24846.637	53.9800
01:53:27	24808.336	53.9870	13:23:27	24838.482	53.9800
02:08:27	24791.572	53.9870	13:38:27	24830.375	53.9810
02:23:27	24774.979	53.9870	13:53:27	24819.109	53.9800
02:38:27	24756.615	53.9870	14:08:27	24809.969	53.9800
02:53:27	24743.564	53.9890	14:23:27	24719.992	53.9760
03:08:27	24729.650	53.9890	14:38:27	24682.271	53.9790
03:23:27	24713.469	53.9900	14:53:27	24675.828	53.9900
03:38:27	24703.434	53.9910	15:08:27	24657.488	53.9960
03:53:27	24690.289	53.9910	15:23:27	24598.178	53.9950
04:08:27	24676.045	53.9900	15:38:27	24569.795	53.9930
04:23:27	24665.920	53.9920	15:53:27	24548.775	54.0020
04:38:27	24651.744	53.9910	16:08:27	24525.875	54.0040
04:53:27	24638.871	53.9910	16:23:27	24488.377	54.0030
05:08:27	24625.266	53.9930	16:38:27	24468.570	54.0040
05:23:27	24611.730	53.9920	16:53:27	24450.852	54.0100
05:38:27	24604.207	53.9960	17:08:27	24434.564	54.0050
05:53:27	24596.982	53.9970	17:23:27	24420.021	54.0040
06:08:27	25254.422	54.0400	17:38:27	24391.111	54.0030
Maximum Recorded Temperature			17:53:27	24399.959	54.0060
06:17:27	25411.191	54.0850	18:08:27	24398.902	54.0120
06:23:27	25469.020	54.0670	18:23:27	24385.473	54.0060
06:38:27	25575.570	53.9320	18:38:27	24364.617	54.0060
06:53:27	25652.434	53.7940	18:53:27	24333.795	54.0030
07:08:27	25734.752	53.6970	19:08:27	24299.988	53.9990
07:23:27	25793.730	53.6360	19:23:27	24280.051	54.0010
07:38:27	25845.664	53.5460	19:38:27	24271.914	54.0070
07:53:27	25447.646	53.4630	19:53:27	24253.941	54.0080
08:08:27	25180.381	53.7250	20:08:27	24242.135	54.0060
08:23:27	25156.768	53.8590	20:23:27	24230.816	54.0120
08:38:27	25183.557	53.9420	20:38:27	24221.816	54.0140
08:53:27	25183.285	53.9380	20:53:27	24217.756	54.0120
09:08:27	25226.916	53.9410	21:08:27	24205.533	54.0120

Time	Pressure (kPag)	Temperature (degrees C)
Tue Jul 11, 1995		
21:23:27	24198.195	54.0110
21:38:27	24184.271	54.0100
21:53:27	24190.832	54.0120
22:08:27	24191.930	54.0160
22:23:27	24197.273	54.0140
22:38:27	24187.957	54.0130
22:53:27	24186.686	54.0100
23:08:27	24183.348	54.0090
23:23:27	24175.428	54.0090
23:38:27	24167.775	54.0100
23:53:27	24155.584	54.0060
Wed Jul 12, 1995		
00:08:27	24144.064	54.0050
00:23:27	24133.838	54.0040
00:38:27	24121.928	54.0070
00:53:27	24115.518	54.0080
01:08:27	24108.258	54.0090
01:23:27	24103.920	54.0100
01:38:27	24085.969	54.0100
01:53:27	24081.990	54.0070
02:08:27	24071.145	54.0070
02:23:27	24060.467	54.0070
02:38:27	24051.537	54.0090
02:53:27	24041.959	54.0080
03:08:27	24031.938	54.0070
03:23:27	24022.285	54.0060
03:38:27	24015.861	54.0070
03:53:27	24009.178	54.0080
04:08:27	23999.496	54.0080
04:23:27	23992.445	54.0080
04:47:57	23976.855	54.0090
08:27:57	24683.650	54.0350
09:31:57	24048.828	53.5510
10:41:57	24263.592	54.0440
11:53:57	23793.859	54.0150
13:59:57	23654.170	54.0210
15:07:57	23603.898	54.0250
18:57:57	23451.047	54.0290
23:57:57	23295.334	54.0270
Thu Jul 13, 1995		
04:57:57	23176.424	54.0250
09:47:57	22988.994	54.0140
14:47:57	22908.783	54.0310
19:47:57	22830.578	54.0260
Fri Jul 14, 1995		
00:47:57	22765.611	54.0220
02:47:57	22716.051	54.0180
05:19:57	22860.234	54.0110
07:15:57	23206.441	53.9950
08:17:57	23678.936	53.8670
09:53:57	23287.666	53.5410
11:13:57	23983.266	53.6330
12:31:57	24041.270	53.7520
14:05:57	24197.344	53.3910
16:07:57	24398.408	53.1100
18:27:57	24592.170	53.0000
20:27:57	24474.387	53.1940
23:19:57	24348.568	53.4210
Sat Jul 15, 1995		
00:25:57	24027.053	53.8560
01:35:57	24543.334	53.7230
03:45:57	24546.590	53.4010
07:51:57	24820.227	52.9480
09:31:57	24862.059	52.9980
11:45:57	25098.021	52.7710
15:01:57	25336.238	52.6240
19:37:57	25520.223	52.5240
Sun Jul 16, 1995		
00:37:57	25619.766	52.4100
05:37:57	25705.293	52.3360
10:37:57	25764.855	52.2660
15:37:57	25777.945	52.2110
20:37:57	25797.768	52.1640
Mon Jul 17, 1995		
01:37:57	25975.191	52.2900
06:37:57	26032.855	52.3080
11:37:57	26084.352	52.3130
16:37:57	26132.391	52.3110
21:37:57	26179.088	52.3060
Tue Jul 18, 1995		
02:37:57	26223.592	52.3020
07:37:57	26265.180	52.2930
12:37:57	26304.797	52.2870
17:37:57	26342.391	52.2810
22:37:57	26378.709	52.2740
Wed Jul 19, 1995		
03:37:57	26415.828	52.2660
08:37:57	26451.682	52.2620
13:37:57	26486.818	52.2570
18:37:57	26521.207	52.2520
23:37:57	26555.072	52.2460
Thu Jul 20, 1995		
04:37:57	26587.465	52.2430
09:37:57	26619.234	52.2390

Time	Pressure (kPag)	Temperature (degrees C)
Thu Jul 20, 1995		
14:37:57	26649.684	52.2320
19:37:57	26679.939	52.2300
Fri Jul 21, 1995		
00:37:57	26709.525	52.2240
05:37:57	26737.898	52.2240
10:37:57	26766.076	52.2200
15:37:57	26793.996	52.2190
20:37:57	26821.361	52.2160
Sat Jul 22, 1995		
01:37:57	26848.094	52.2130
06:37:57	26875.178	52.2090
11:37:57	26900.910	52.2060
16:37:57	26926.498	52.2050
21:37:57	26951.377	52.2020
Sun Jul 23, 1995		
02:37:57	26974.855	52.2000
07:37:57	26999.041	52.1990
12:37:57	27022.959	52.1970
17:37:57	27045.836	52.1960
22:37:57	27068.459	52.1930
Mon Jul 24, 1995		
03:37:57	27091.264	52.1920
08:37:57	27112.547	52.1910
13:37:57	27133.639	52.1890
18:37:57	27155.371	52.1900
23:37:57	27175.783	52.1860
Tue Jul 25, 1995		
04:37:57	27195.814	52.1840
09:37:57	27215.730	52.1840
14:37:57	27234.746	52.1830
19:37:57	27254.129	52.1830
Wed Jul 26, 1995		
00:37:57	27272.918	52.1820
05:37:57	27290.754	52.1820
10:37:57	27308.994	52.1810
15:37:57	27326.557	52.1800
20:37:57	27344.254	52.1800
Thu Jul 27, 1995		
01:37:57	27362.674	52.1780
06:37:57	27379.609	52.1780
11:37:57	27396.273	52.1780
16:37:57	27412.328	52.1770
21:37:57	27428.805	52.1760
Fri Jul 28, 1995		
02:37:57	27445.033	52.1750
07:37:57	27460.902	52.1730
3 - Final Buildup		
09:17:57	27465.953	52.1740
4 - 3091.55 mCF		
09:57:57	25776.801	48.0050
5 - 2791.64 mCF		
10:09:57	24014.146	43.2820
10:15:57	22216.574	40.7230
6 - 2491.43 mCF		
10:21:57	22215.332	38.0510
7 - 2191.52 mCF		
10:35:57	20387.053	32.4790
8 - 1891.61 mCF		
10:47:57	18529.283	28.0110
9 - 1591.70 mCF		
11:01:57	16648.977	23.6440
10 - 1291.79 mCF		
11:11:57	14743.517	19.9760
11:15:57	12822.154	18.9450
11 - 991.89 mCF		
11:23:57	12822.881	16.1640
12 - 691.67 mCF		
11:35:57	10863.967	13.4970
13 - 391.76 mCF		
11:45:57	10353.711	11.0470
14 - -0.19 mCF		
11:59:57	9879.696	12.4620
12:27:57	9.667	16.3240

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Z.I. Probes Pressure Test Report

COMPANY INFORMATION

Company Name	Hunt Oil Company
Representative	Mark Griffin
Phone	(403) 269-3400
Address	1450, 801 - 6th Avenue S.W. Calgary, AB T2P 3W2
Service Company	Solid Resources

WELL INFORMATION

Well Name	Port au Port 1
Well Location	Newfoundland
Field and pool	N/A
Status (oil, gas, water, injection)	Oil
Perforated Intervals	N/A
Mid point of Perforated Intervals (MPP)	N/A
Drilling Rig Number	
Elevations	
Kelly Bushing (KB)	N/A
Casing Flange (CF)	N/A
KB-CF	N/A
Ground Level (GL)	N/A
Plug back total depth	N/A
Total depth	N/A
Production Casing	N/A
Production Tubing	N/A

TEST INFORMATION

Test number / Type of test	Flow & Buildup / S.G.
Date(s) of test	July 09 - 28/95
Dead-weight gauge tubing pressure	10,866 kPag, 07/28/95 @ 09:30
Dead-weight gauge casing pressure	N/A
Shut-in date (duration)	Jul. 14/95 (14 days)
Date/time on bottom	Jul. 09/95 @ 05:51
Date/time off bottom	Jul. 28/95 @ 09:48
Run depth at probe pressure port	3389.93 mCF

PRESSURE TEST RESULTS

Maximum recorded probe pressure	29559.45 kPag
Maximum recorded probe temperature	53.94 Degrees C
Final buildup pressure	27545.37 kPag Pressure test ?
Gradient Survey Information	
Extrapolated pressure to MPP	27634.17 kPag
Final gradient at depth	5.883 kPa/m
Z.I. Probes Job Number	
Probe Serial Number	N12

PROBE INFORMATION

Probe Serial Number	N12
Model	Level II
Pressure	
Calibrated Pressure Range	0.0 - 68948.0 kPag (0 - 10000 psi)
Accuracy	0.05% FS
Resolution	0.0015% FS
Temperature	
Calibrated Temperature Range	21.3 - 123.4 Degrees C
Accuracy	0.25% FS
Resolution	0.002% FS
Calibration file used for reports	N12AP28A.CAL

PROGRAMMING DETAILS

Sequence Step	Sampling Mode	Sample Period	Repetitions of step Count
1	Pause	5 seconds	6 (test mode)
2	Normal	30 seconds	8640 (3 days)
3	Delta Pressure On	2 minutes	4 count @ 0.5 psi
4	Normal	10 minutes	4032 (28 days)
5	Delta Pressure On	30 seconds	3 count @ 0.5 psi
6	Normal	2 minutes	5040 (7 days)
7	Overrun	2 minutes	to end of memory

Program start time	Jul. 09/95 @ 04:43:53
Program end time	Jul. 28/95 @ 12:23:23
Total Samples Taken	11465
Usage for this test	0.6273 Ah
Generic Data File Name	N12JL28A.GEN
Reported by	Bradley Lee

COMMENTS

Probes M47 and N12 were used on this test and maintained Level II accuracy throughout. The data from both probes is recommended for reservoir analysis.

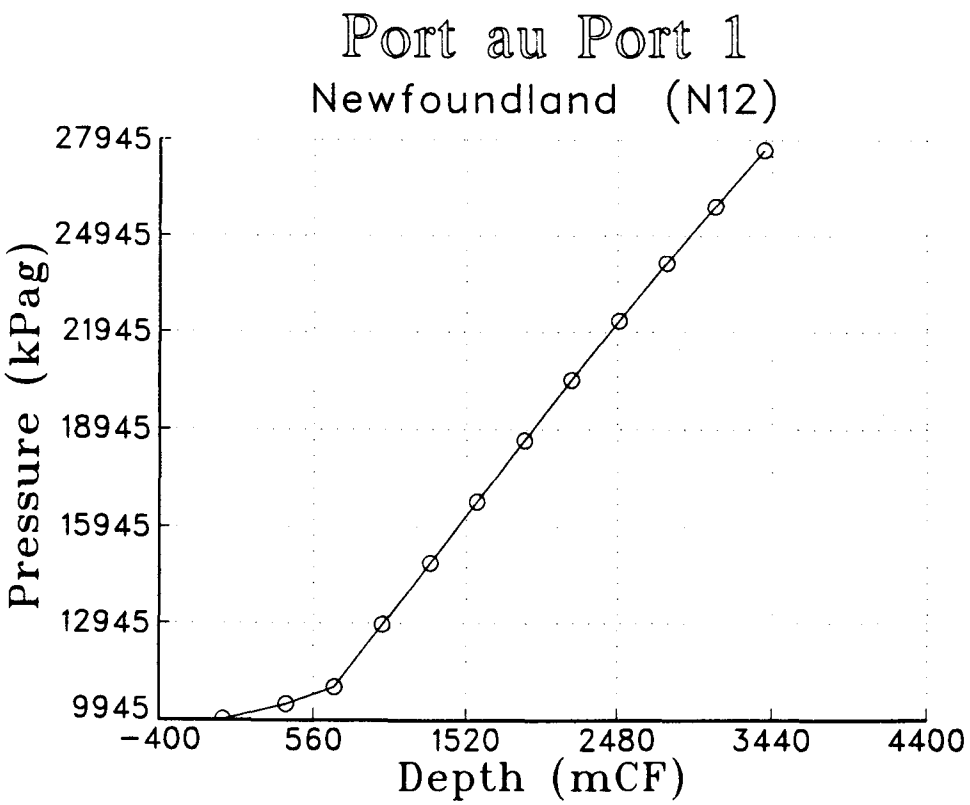
NOTE: As no perforated intervals were provided, the probe run depth was used as the mid-point of perforations (MPP) for the pressure vs depth plot.

Pressure vs. Depth

Probe	N12
Company	*Hunt Oil Company*
Well Name	Port au Port 1
Well Location	Newfoundland
Field and Pool	N/A
Date of Test	July 09 - 28/95

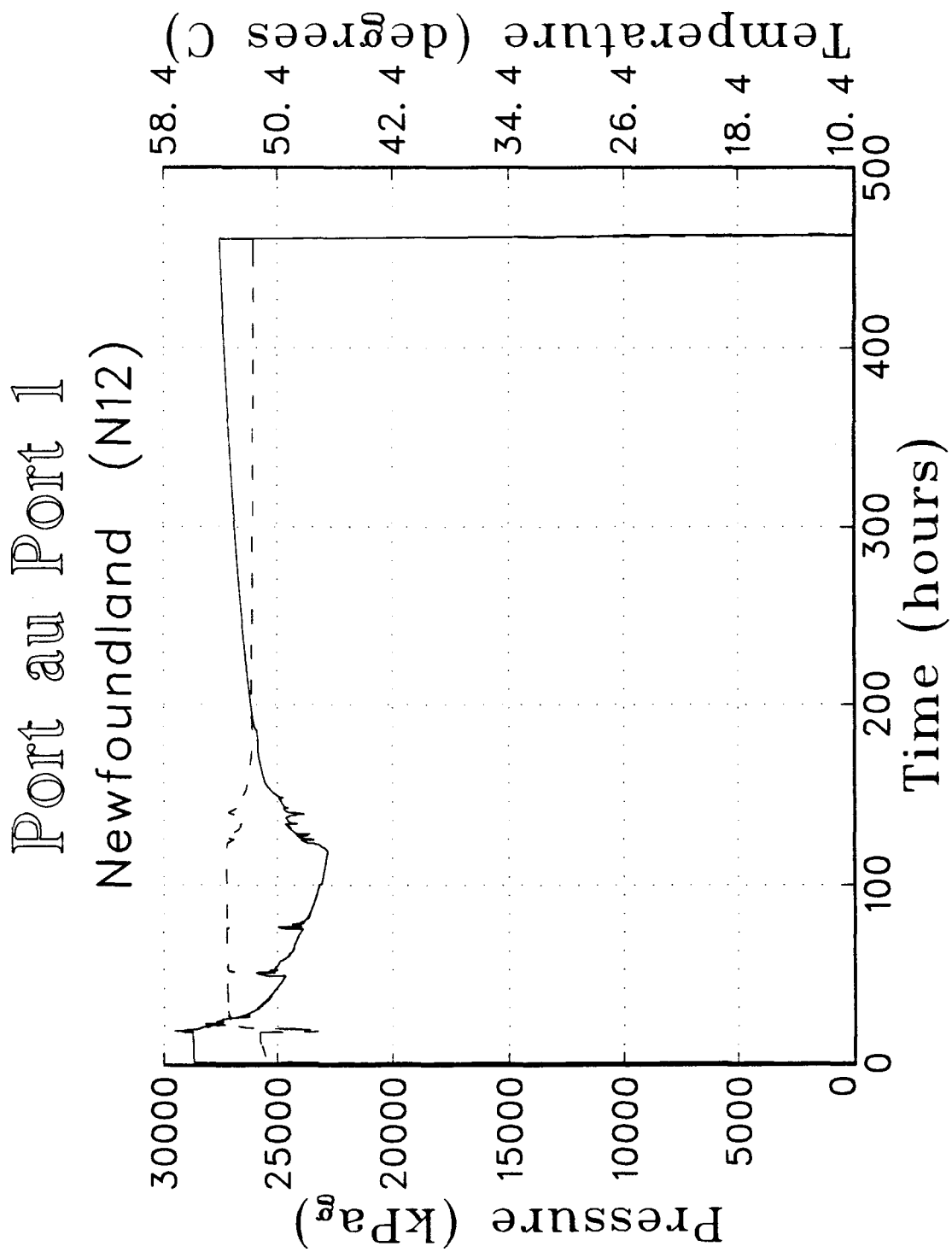
Stop Time From	To	Depth (mCF)	Pressure (kPag)	Gradient (kPa/m)
09:50	10:00	3089.720	25856.092	5.8832
10:03	10:13	2789.810	24091.662	5.8832
10:15	10:25	2489.600	22291.643	5.9959
10:28	10:38	2189.690	20463.889	6.0943
10:40	10:50	1889.780	18606.006	6.1948
10:52	11:02	1589.870	16726.486	6.2669
11:05	11:15	1289.960	14821.514	6.3518
11:16	11:26	990.060	12903.216	6.3965
11:28	11:38	689.840	10946.283	6.5183
11:39	11:49	389.930	10418.573	1.7596
11:53	12:03	-2.020	9944.647	1.2091

MPP Pressure extrapolated using a least-squares fit:
3391.950 27634.171

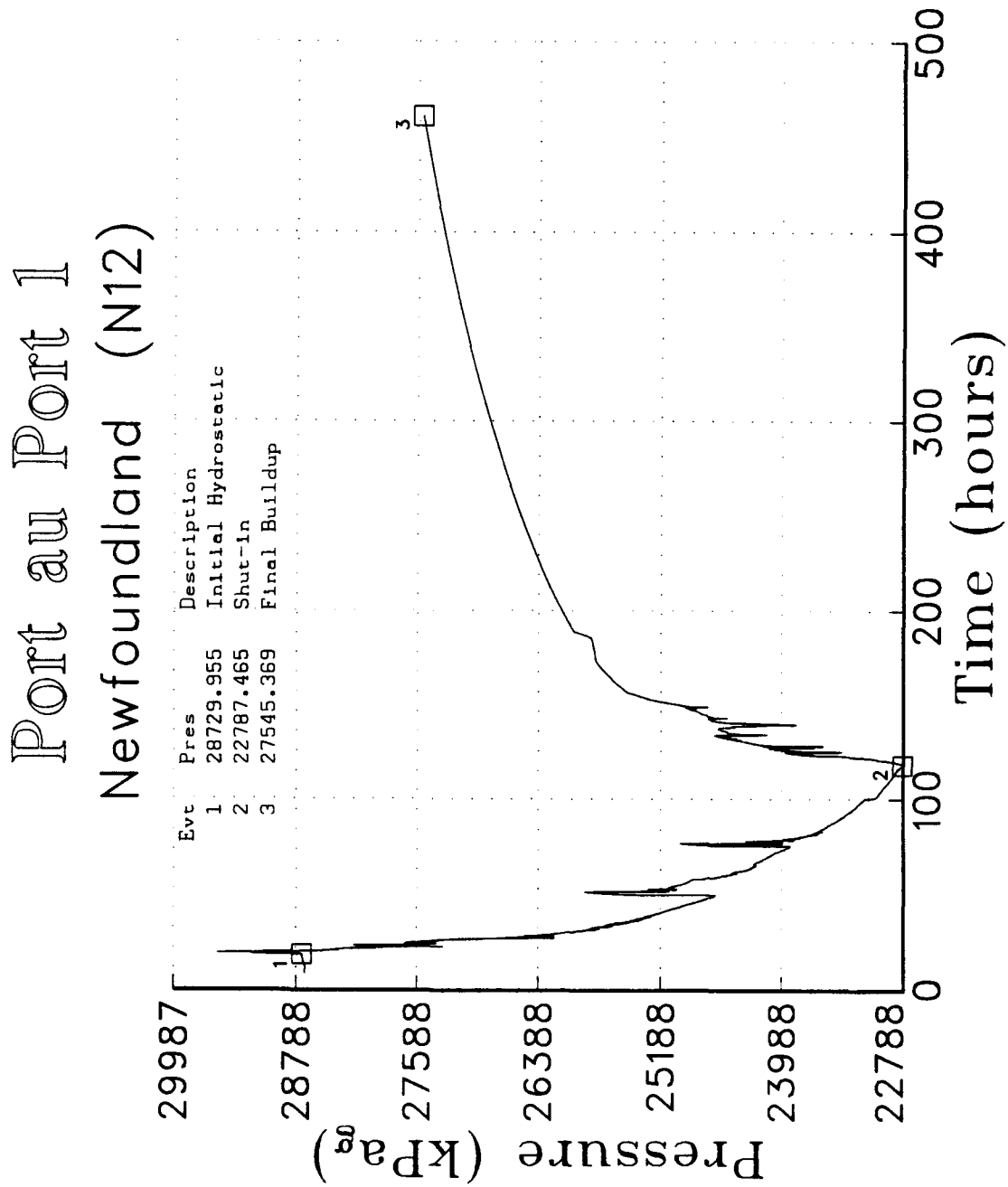


ZIPGRAPH 3.1b6 for Z.I. Probes, Edmonton July 31, 1995 10:39:16

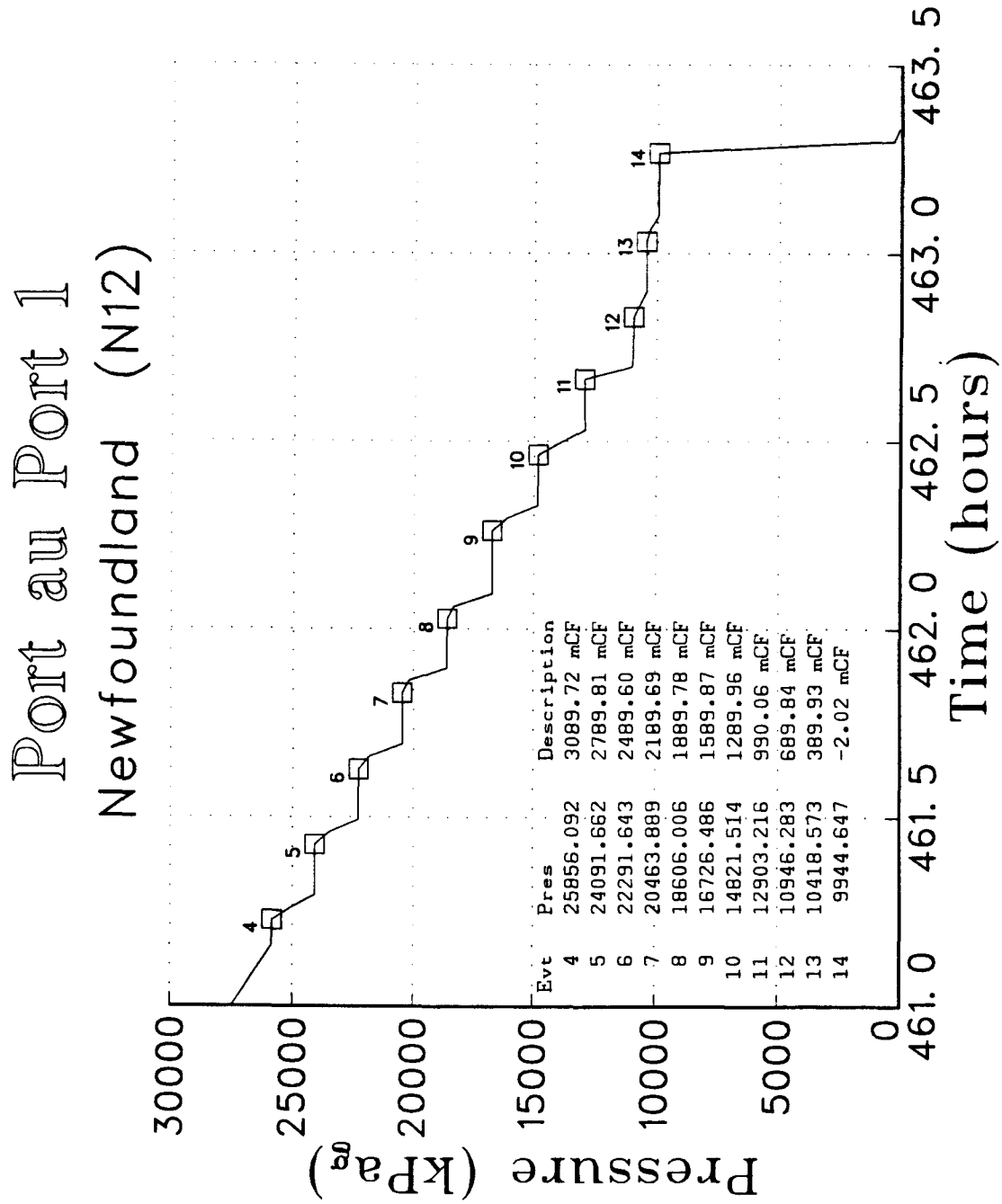
ZIPGRAPH 3. 1b6 for Z. I. Probes, Edmonton July 31, 1995 09:34:02



ZIPGRAPH 3. 1b6 for Z. I. Probes, Edmonton July 31, 1995 09:38:43



ZIPGRAPH 3. 1b6 for Z. I. Probes, Edmonton July 31, 1995 14:39:23



Data Listing: Every 30th point of the generic data file.

Probe Number: N12
Company: Hunt Oil Company
Well: Port au Port 1
Location: Newfoundland
Field: N/A
Test Date(s): July 09 - 28/95

Time	Pressure (kPag)	Temperature (degrees C)	Time	Pressure (kPag)	Temperature (degrees C)
Sun Jul 09, 1995			14:13:53	28700.469	51.3570
04:43:53	60.613	18.0960	14:28:53	28699.189	51.3740
04:58:53	60.818	17.4740	14:43:53	28699.016	51.3870
05:13:53	60.722	17.0430	14:58:53	28698.113	51.4000
05:28:53	7213.023	16.0330	15:13:53	28696.605	51.4180
05:43:53	28667.699	44.3630	15:28:53	28696.430	51.4330
05:58:53	28653.604	50.7000	15:43:53	28697.039	51.4480
06:13:53	28668.010	50.9880	15:58:53	28698.146	51.4590
06:28:53	28672.863	51.0070	16:13:53	28698.713	51.4700
06:43:53	28679.162	51.0230	16:28:53	28700.062	51.4820
06:58:53	28681.352	51.0270	16:43:53	28702.422	51.4910
07:13:53	28683.092	51.0330	16:58:53	28704.408	51.5000
07:28:53	28684.172	51.0440	17:13:53	28707.111	51.5060
07:43:53	28684.957	51.0590	17:28:53	28708.607	51.5130
07:58:53	28686.023	51.0760	17:43:53	28710.344	51.5170
08:13:53	28687.303	51.0890	17:58:53	28711.064	51.5210
08:28:53	28688.637	51.1030	18:13:53	28711.768	51.5230
08:43:53	28689.727	51.1160	18:28:53	28713.070	51.5280
08:58:53	28689.076	51.1330	18:43:53	28714.795	51.5300
09:13:53	28690.238	51.1480	18:58:53	28715.670	51.5320
09:28:53	28691.209	51.1620	19:13:53	28716.916	51.5330
09:43:53	28693.160	51.1760	19:28:53	28717.959	51.5350
09:58:53	28694.369	51.1880	19:43:53	28719.457	51.5360
10:13:53	28695.020	51.1990	19:58:53	28720.467	51.5360
10:28:53	28696.119	51.2080	20:13:53	28722.043	51.5370
10:43:53	28696.844	51.2170	20:28:53	28723.332	51.5390
10:58:53	28697.857	51.2270	20:43:53	28723.779	51.5400
11:13:53	28698.760	51.2360	20:58:53	28725.146	51.5400
11:28:53	28699.375	51.2470	21:13:53	28725.988	51.5420
11:43:53	28700.119	51.2550	21:28:53	28726.570	51.5440
11:58:53	28701.078	51.2640	21:43:53	28727.207	51.5450
12:13:53	28701.561	51.2740	21:58:53	28728.621	51.5470
12:28:53	28701.979	51.2840	22:13:53	28729.240	51.5480
12:43:53	28703.143	51.2930	**1 - Initial Hydrostatic**		
12:58:53	28703.580	51.3020	22:27:53	28729.955	51.5480
13:13:53	28704.439	51.3110	22:28:53	28945.162	51.5490
13:28:53	28704.459	51.3200	22:43:53	29136.729	48.5400
13:43:53	28704.590	51.3310	22:58:53	29020.473	47.1240
13:58:53	28705.627	51.3430	23:13:53	29202.197	47.5910

Time	Pressure (kPag)	Temperature (degrees C)
Sun Jul 09, 1995		
Maximum Recorded Pressure		
23:17:23	29559.445	47.5840
23:28:53	29099.645	47.6720
23:43:53	29060.660	48.2810
23:58:53	28826.053	48.6310
Mon Jul 10, 1995		
00:13:53	28589.104	49.1200
00:28:53	28507.174	50.2540
00:43:53	28402.203	51.6590
00:58:53	28392.799	52.4960
01:13:53	28382.199	52.7030
01:28:53	28205.152	52.8740
01:43:53	28249.074	53.0580
01:58:53	28132.854	53.1260
02:13:53	28046.953	53.2090
02:28:53	27905.514	53.2660
02:43:53	27649.533	53.3970
02:58:53	28026.801	53.5360
03:13:53	28204.469	53.4150
03:28:53	27614.146	53.3600
03:43:53	27666.682	53.4860
03:58:53	27497.078	53.5320
04:13:53	27535.943	53.5670
04:28:53	27562.055	53.5890
04:43:53	27664.379	53.5960
04:58:53	27572.068	53.5930
05:13:53	27478.027	53.5870
05:28:53	27447.850	53.6110
05:43:53	27404.309	53.6550
05:58:53	27416.406	53.6890
06:13:53	27344.947	53.6570
06:28:53	27166.816	53.6320
06:43:53	27146.576	53.6400
06:58:53	26757.557	53.6240
07:13:53	26548.354	53.6560
07:28:53	26545.746	53.6810
07:43:53	26490.090	53.7910
07:58:53	26509.201	53.7630
08:13:53	26478.650	53.7600
08:28:53	26282.791	53.7550
08:43:53	26380.309	53.7620
08:58:53	26329.922	53.7740
09:13:53	26267.873	53.7730
09:28:53	26227.998	53.7760
09:43:53	26185.637	53.7860
09:58:53	26147.666	53.7910
10:13:53	26116.865	53.7950
10:28:53	26066.670	53.7920
10:43:53	26048.143	53.8130
10:58:53	26001.418	53.8120
11:13:53	25948.668	53.8250
11:28:53	25935.506	53.8250
11:43:53	25889.844	53.8310
11:58:53	25896.568	53.8350
12:13:53	25867.105	53.8310
12:28:53	25815.555	53.8420
12:43:53	25831.217	53.8410
12:58:53	25828.082	53.8430
13:13:53	25752.699	53.8240
13:28:53	25720.145	53.8300
13:43:53	25688.006	53.8320
13:58:53	25708.838	53.8500
14:13:53	25678.170	53.8360
14:28:53	25688.842	53.8390
14:43:53	25665.584	53.8260
14:58:53	25621.604	53.8180
15:13:53	25642.912	53.8330
15:28:53	25599.330	53.8090
15:43:53	25521.240	53.8110
15:58:53	25489.586	53.8170
16:13:53	25462.652	53.8270
16:28:53	25475.857	53.8210
16:43:53	25467.932	53.8260
16:58:53	25436.758	53.8250
17:13:53	25381.562	53.8340
17:28:53	25379.871	53.8240
17:43:53	25374.721	53.8230
17:58:53	25356.957	53.8270
18:13:53	25322.404	53.8300
18:28:53	25296.104	53.8350
18:43:53	25316.166	53.8380
18:58:53	25293.051	53.8330
19:13:53	25280.252	53.8320
19:28:53	25263.625	53.8320
19:43:53	25246.047	53.8320
19:58:53	25231.449	53.8360
20:13:53	25216.018	53.8370
20:28:53	25198.133	53.8380
20:43:53	25183.705	53.8400
20:58:53	25171.621	53.8430
21:13:53	25158.348	53.8430
21:28:53	25142.467	53.8430
21:43:53	25127.158	53.8440
21:58:53	25115.082	53.8460
22:13:53	25101.680	53.8450

Probe Number: N12

Time	Pressure (kPag)	Temperature (degrees C)
Mon Jul 10, 1995		
22:28:53	25082.377	53.8440
22:43:53	25065.350	53.8430
22:58:53	25046.096	53.8450
23:13:53	25027.195	53.8450
23:28:53	25013.293	53.8480
23:43:53	25000.469	53.8500
23:58:53	24984.965	53.8510
Tue Jul 11, 1995		
00:13:53	24973.533	53.8510
00:28:53	24959.150	53.8510
00:43:53	24949.285	53.8520
00:58:53	24934.846	53.8520
01:13:53	24917.371	53.8490
01:28:53	24899.090	53.8470
01:43:53	24879.111	53.8470
01:58:53	24866.186	53.8490
02:13:53	24849.236	53.8490
02:28:53	24831.428	53.8500
02:43:53	24817.160	53.8510
02:58:53	24801.695	53.8510
03:13:53	24787.496	53.8520
03:28:53	24773.766	53.8530
03:43:53	24760.420	53.8530
03:58:53	24750.045	53.8530
04:13:53	24736.068	53.8540
04:28:53	24723.754	53.8540
04:43:53	24709.340	53.8540
04:58:53	24695.916	53.8550
05:13:53	24683.494	53.8560
05:28:53	24672.977	53.8580
05:43:53	24668.221	53.8600
05:58:53	24655.549	53.8620
06:13:53	25429.020	53.9310
Maximum Recorded Temperature		
06:18:53	25487.625	53.9400
06:28:53	25572.297	53.9050
06:43:53	25667.469	53.7720
06:58:53	25747.209	53.6400
07:13:53	25787.719	53.5350
07:28:53	25875.000	53.4680
07:43:53	25921.971	53.3840
07:58:53	25152.275	53.3220
08:13:53	25232.668	53.6390
08:28:53	25248.459	53.7530
08:43:53	25208.033	53.8040
08:58:53	25208.098	53.8070
09:13:53	25181.080	53.8080
09:28:53	25083.576	53.7990
09:43:53	25083.059	53.8220
09:58:53	25081.516	53.8320
10:13:53	25094.885	53.8370
10:28:53	25078.967	53.8320
10:43:53	25066.488	53.8280
10:58:53	25039.184	53.8280
11:13:53	25021.492	53.8290
11:28:53	25001.723	53.8310
11:43:53	24983.875	53.8340
11:58:53	24965.539	53.8360
12:13:53	24953.158	53.8380
12:28:53	24938.236	53.8400
12:43:53	24928.893	53.8440
12:58:53	24920.984	53.8450
13:13:53	24910.400	53.8450
13:28:53	24903.510	53.8470
13:43:53	24892.637	53.8460
13:58:53	24883.049	53.8460
14:13:53	24875.070	53.8460
14:28:53	24772.033	53.8400
14:43:53	24746.469	53.8480
14:58:53	24740.291	53.8600
15:13:53	24716.305	53.8610
15:28:53	24651.047	53.8590
15:43:53	24630.002	53.8610
15:58:53	24608.277	53.8680
16:13:53	24590.842	53.8710
16:28:53	24536.959	53.8700
16:43:53	24533.205	53.8740
16:58:53	24514.521	53.8760
17:13:53	24489.775	53.8710
17:28:53	24467.818	53.8700
17:43:53	24446.533	53.8710
17:58:53	24473.510	53.8770
18:13:53	24461.576	53.8770
18:28:53	24451.461	53.8730
18:43:53	24426.344	53.8710
18:58:53	24390.748	53.8680
19:13:53	24359.053	53.8670
19:28:53	24343.756	53.8700
19:43:53	24331.137	53.8740
19:58:53	24314.637	53.8750
20:13:53	24302.971	53.8770
20:28:53	24293.750	53.8800
20:43:53	24294.295	53.8800
20:58:53	24289.408	53.8790
21:13:53	24267.791	53.8780

Time	Pressure (kPag)	Temperature (degrees C)
Tue Jul 11, 1995		
21:28:53	24261.875	53.8780
21:43:53	24247.061	53.8790
21:58:53	24256.893	53.8810
22:13:53	24263.574	53.8810
22:28:53	24259.906	53.8800
22:43:53	24247.361	53.8790
22:58:53	24256.283	53.8780
23:13:53	24247.812	53.8770
23:28:53	24240.787	53.8760
23:43:53	24226.678	53.8740
23:58:53	24218.508	53.8720
Wed Jul 12, 1995		
00:13:53	24204.455	53.8730
00:28:53	24194.719	53.8730
00:43:53	24185.564	53.8750
00:58:53	24182.646	53.8770
01:13:53	24173.697	53.8770
01:28:53	24169.557	53.8770
01:43:53	24146.428	53.8760
01:58:53	24144.924	53.8760
02:13:53	24134.830	53.8760
02:28:53	24121.781	53.8760
02:43:53	24113.105	53.8750
02:58:53	24105.570	53.8760
03:13:53	24097.854	53.8750
03:28:53	24087.824	53.8740
03:43:53	24080.367	53.8770
03:58:53	24071.820	53.8770
04:13:53	24065.572	53.8770
04:28:53	24056.461	53.8750
04:53:23	24041.594	53.8740
08:27:23	24741.502	53.9150
09:31:23	24146.363	53.4270
10:33:23	24151.980	53.9030
11:53:23	23858.727	53.8810
13:41:23	23700.316	53.8860
14:47:23	23677.678	53.8930
17:33:23	23559.172	53.8950
22:33:23	23398.672	53.8950
Thu Jul 13, 1995		
03:33:23	23272.955	53.8950
08:33:23	23171.049	53.8930
13:03:23	22994.010	53.8990
18:03:23	22923.340	53.8950
23:03:23	22857.072	53.8920
Fri Jul 14, 1995		
2 - Shut-in		
02:53:23	22787.465	53.8870
04:03:23	22825.367	53.8870
06:49:23	23142.727	53.8550
08:07:23	23672.939	53.8000
09:43:23	23689.309	53.3860
10:57:23	24010.113	53.6190
12:23:23	24059.184	53.6620
13:57:23	24249.832	53.2900
16:03:23	24439.451	52.9640
18:21:23	24646.473	52.8730
20:23:23	24535.768	53.0580
23:13:23	24477.098	53.2420
Sat Jul 15, 1995		
00:19:23	24175.168	53.7060
01:35:23	24611.705	53.5890
04:33:23	24729.084	53.1840
08:45:23	24892.158	52.7730
10:37:23	25040.920	52.7190
13:19:23	25291.814	52.5300
17:23:23	25528.516	52.4210
22:23:23	25645.008	52.3230
Sun Jul 16, 1995		
03:23:23	25733.473	52.2090
08:23:23	25811.111	52.1360
13:23:23	25834.832	52.0790
18:23:23	25853.824	52.0280
23:23:23	25939.670	52.0750
Mon Jul 17, 1995		
04:23:23	26073.287	52.1310
09:23:23	26127.432	52.1410
14:23:23	26176.635	52.1430
19:23:23	26224.303	52.1400
Tue Jul 18, 1995		
00:23:23	26269.863	52.1350
05:23:23	26312.215	52.1290
10:23:23	26353.727	52.1220
15:23:23	26390.957	52.1150
20:23:23	26429.316	52.1090
Wed Jul 19, 1995		
01:23:23	26466.812	52.1020
06:23:23	26502.371	52.0970
11:23:23	26538.031	52.0910
16:23:23	26572.576	52.0870
21:23:23	26607.736	52.0820
Thu Jul 20, 1995		
02:23:23	26641.223	52.0770
07:23:23	26673.291	52.0720
12:23:23	26704.625	52.0680

Time	Pressure (kPag)	Temperature (degrees C)
Thu Jul 20, 1995		
17:23:23	26735.549	52.0650
22:23:23	26765.389	52.0610
Fri Jul 21, 1995		
03:23:23	26794.922	52.0580
08:23:23	26823.082	52.0550
13:23:23	26851.420	52.0520
18:23:23	26879.309	52.0490
23:23:23	26906.598	52.0470
Sat Jul 22, 1995		
04:23:23	26933.734	52.0450
09:23:23	26960.012	52.0420
14:23:23	26987.094	52.0410
19:23:23	27011.555	52.0380
Sun Jul 23, 1995		
00:23:23	27036.592	52.0370
05:23:23	27060.801	52.0350
10:23:23	27084.031	52.0330
15:23:23	27106.955	52.0310
20:23:23	27130.605	52.0310
Mon Jul 24, 1995		
01:23:23	27152.816	52.0280
06:23:23	27175.178	52.0260
11:23:23	27196.180	52.0260
16:23:23	27218.271	52.0250
21:23:23	27239.135	52.0230
Tue Jul 25, 1995		
02:23:23	27259.678	52.0220
07:23:23	27279.670	52.0210
12:23:23	27299.061	52.0200
17:23:23	27318.719	52.0190
22:23:23	27338.348	52.0190
Wed Jul 26, 1995		
03:23:23	27356.955	52.0180
08:23:23	27376.135	52.0170
13:23:23	27394.336	52.0170
18:23:23	27412.451	52.0160
23:23:23	27430.666	52.0160
Thu Jul 27, 1995		
04:23:23	27447.949	52.0160
09:23:23	27465.373	52.0160
14:23:23	27482.283	52.0140
19:23:23	27499.164	52.0140
Fri Jul 28, 1995		
00:23:23	27516.117	52.0130
05:23:23	27531.826	52.0120
3 - Final Buildup		
09:33:23	27545.369	52.0120
4 - 3089.72 mCF		
09:57:23	25856.092	47.9330
09:59:23	25077.238	47.5530
5 - 2789.81 mCF		
10:09:23	24091.662	43.3480
6 - 2489.60 mCF		
10:21:23	22291.643	38.1850
7 - 2189.69 mCF		
10:33:23	20463.889	32.8820
8 - 1889.78 mCF		
10:45:23	18606.006	28.5710
9 - 1589.87 mCF		
10:59:23	16726.486	24.0490
10 - 1289.96 mCF		
11:11:23	14821.514	20.1370
11 - 990.06 mCF		
11:23:23	12903.216	16.3530
12 - 689.84 mCF		
11:33:23	10946.283	13.8910
13 - 389.93 mCF		
11:45:23	10418.573	11.0970
14 - -2.02 mCF		
11:59:23	9944.647	11.9020
12:09:23	74.616	10.6370
12:23:23	118.940	13.3460

FINAL WELL REPORT

NHOC/PanCanadian Port au Port No. 1

APPENDIX V

PRODUCTION TEST DATA

V-12 Reservoir Fluid Study, DST #4 ..... Core Lab

NEWFOUNDLAND HUNT OIL COMPANY INC.

JULY 1996

Reservoir Fluid Study (Imperial Units)
for

Hunt Oil Company

Hunt PCP Port Au Port #1, DST #4
Newfoundland

File Number: 52134-95-9049A
June 9th, 1995

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CORE Laboratories Canada Ltd.

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CORELAB

CORE LABORATORIES

June 9th, 1995

Hunt Oil Company
1445 Ross AT Field
Dallas, Texas
75202 - 2785

Attention: Mr. Dave Luttner

Subject: **Reservoir Fluid Study (Imperial Units)**
Hunt PCP Port Au Port #1, DST #4
Newfoundland
File Number: 52134-95-9049A

Gentlemen:

Subsurface samples of reservoir fluid were collected from the subject well by a representative of Core Laboratories on April 23rd, 1995. The samples were then submitted to our Calgary laboratory for use in a reservoir fluid study.

The enclosed report contains a brief description of the tests & the experimental procedures that were followed in the laboratory, the laboratory results in tabular & illustrative formats, the compositional data and the concluding remarks with regards to the study conducted. Also included in this report are the separator gas & oil compositions and the routine oil analysis.

Thank you for the opportunity to be of service. Please contact us if you have any questions concerning the enclosed data.

Yours truly,

CORE LABORATORIES CANADA LTD.

Tom B. Martin
Supervisor, PVT

AK
enclosure

cc: Ms. Laureen Little, PanCanadian Petroleum Limited, Calgary, Alberta.
Mr. Russ Nawolsky, Hunt Oil Company, Calgary, Alberta.

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Hunt Oil Company

Hunt PCP Port Au Port #1, DST #4

52134-95-9049A

SUMMARY OF PVT DATA

Reported Reservoir Conditions

Reservoir Pressure	5299	psig
Reservoir Temperature	130.0	°F

Pressure-Volume Relations

Saturation Pressure	4650	psig
Avg. Single-Phase Compressibility	26.11	E-6 v/v/psi (6000 to 4650 psig)
Thermal Exp. @ 6000 psig	1.06851	V at 130.0 °F / V at 59.0 °F

Differential Vaporization Data

(at 4650 psig and 130.0 °F)

Solution Gas/Oil Ratio	3,636	scf / bbl of residual oil at 59.0 °F
Relative Oil Volume	2.883	bbl / bbl of residual oil at 59.0 °F
Density of Reservoir Fluid	0.5296	gm/cc

Reservoir Fluid Viscosity

0.183 cp at 4650 psig and 130.0 °F

Separator Test Results

Separator Conditions			Formation Volume Factor (A)	Total Solution Gas/Oil Ratio (B)	Tank Oil Gravity (°API at 60.0 °F)
	psig	°F			
#1	204	44.6	2.282	2,572	51.3
#2*	1800	42.0	2.135	2,335	52.8

* Equation-of-state data.

(A) Barrels of saturated oil per barrel of stock tank oil at 59.0 °F.

(B) Total standard cubic feet of gas per barrel of stock tank oil at 59.0 °F.

PROJECT OBJECTIVE & SCOPE

The objective of the reservoir fluid study is to determine the PVT properties of the reservoir fluid from the Port Au Port #1 (DST #4) well.

The scope of the study entails the following tests on the reservoir fluid; pressure-volume relations, differential vaporization, viscosity measurements, multi-stage separator tests and compositional analysis.

ANALYTICAL SUMMARY

Sample Verification & Preparation

Two (2) subsurface samples of reservoir fluid were collected from the subject well. The samples were submitted to our Calgary laboratory for analysis. Initially, the formation water collected with each of the samples was removed, anaerobically, from the individual containers. The reservoir temperature saturation pressure of each reservoir fluid sample was then determined, as a means of a quality check, in a high-pressure, windowed cell. This allows for the comparison of the field and laboratory saturation pressures to confirm proper sampling & downhole tool operation and that they had not leaked while in transit.

As per instructions, due to the relatively high water content in each of the sample containers, the amount of reservoir fluid collected in each container was limited and in order to complete the reservoir fluid study, the reservoir fluid samples were combined into a single container to ensure a uniform sample. The combined sample was then stabilized at a reference pressure and subsequently used in the tests described below to complete the reservoir fluid study.

Refer to page 9 of this report for the field sampling summary and reservoir temperature saturation pressure summary.

PVT Experiments

A. Pressure-Volume Relations Test

A measured aliquot of the reservoir fluid is transferred, under pressure, to a high-pressure, windowed cell and stabilized at a working pressure significantly above the bubblepoint pressure. The cell is then heated to the reported reservoir temperature of 130.0 °F and again stabilized at the working pressure. The cell pressure is lowered by withdrawing the inert hydraulic fluid.

Analytical Summary.....continued

Reservoir fluid volumes in the cell are determined at several pressure increments both above and below the saturation pressure. The saturation pressure (bubblepoint) itself is determined by visual observation through the cell window and is repeated twice.

The results of this test are reported in the form of a ratio of reservoir fluid volume at any pressure to the reservoir fluid volume at saturation conditions (relative volume or V/Vsat). The relative volume data is then used to calculate single-phase oil compressibilities and densities.

The data from this test is tabulated on pages 10 & 11 and illustrated on page 18 of this report.

B. Differential Vaporization

At the completion of the pressure-volume relations test, the reservoir fluid is put into single phase and stabilized at the working pressure and reservoir temperature. The pressure in the cell is then lowered, through hydraulic fluid withdrawal, to a predetermined pressure below the saturation pressure. The gas and oil phase portions of the system are allowed to separate and establish equilibrium. Once equilibrium is reached, the liberated gas is removed, at constant pressure, quantified and its relative density to air measured. The volume of oil remaining in the cell is also determined. The pressure is reduced again and the procedure repeated until the final pressure (atmospheric) is reached.

The stepwise pressure reduction allows for the examination of two-phase properties as a function of pressure depletion during primary production. Specifically, the liberated gas relative density, gas deviation (Z) factor, gas formation volume factor, solution gas-oil ratio, oil formation volume factor and oil phase density are determined at each pressure stage.

Analytical Summary.....continued

The data generated from the differential vaporization test is tabulated on pages 12 & 13 and illustrated on pages 19 through 23 of this report.

C. Reservoir Fluid Viscosity

An aliquot of the reservoir fluid is transferred, in single phase, to a rolling ball viscometer that is preheated to the reservoir temperature. In this instrument, the roll time of a steel ball is measured and converted to a viscosity value through calibration factors for a given stainless steel barrel placed in the viscometer. The measurement is started at a pressure above the reservoir pressure and is lowered through a relief valve to the next required pressure level. For pressures below the saturation pressure, the liberated gas is isolated from the oil phase in such a way as to allow only the oil to fill the measuring chamber (barrel). The same pressure levels used in the pressure-volume relations and differential vaporization tests are selected such that the oil density values from these tests can be directly used to convert roll times to viscosity values.

The viscosity of the liberated gas at each pressure level below the saturation pressure is calculated, based on a correlation by Lee, Eakin & Gonzalez, using the liberated gas properties determined in the differential vaporization test.

The viscosity data is tabulated on page 14 and illustrated on pages 23 & 24 of this report.

D. Separator Test

A measured aliquot of the reservoir fluid is transferred to a scale separator and flashed at conditions equal to those that prevailed in the field at the time of sampling. Specifically, flash to

Analytical Summary.....continued

204 psig & 44.6 °F and then to atmospheric pressure & 59.0 °F. At each stage, the liberated gas is removed and quantified after equilibrium has been reached. The volume of oil remaining is also determined. The data from this test is presented in the form of solution gas-oil ratios (total & individual stage), formation volume factor, stock tank oil gravity and liberated gas relative densities. The total solution gas-oil ratio and the formation volume factor from this separator test are adjusted, as documented in the Data Adjustment section of this report, using data from the pressure-volume relations and differential vaporization tests.

The results from the separator test can be found on page 15 of this report.

A four-stage separator test was also requested but was not conducted due to sample constraints. As per Mr. Tom Martin's conversation with Mr. Dave Luttner, this test was performed on an equation-of-state (EOS) package. The EOS was tuned by characterizing the reservoir fluid composition through regression to the measured laboratory data. The expected deviation in the results for this separator test, based on the regression results, is ±10% of the reported data.

The simulated results can be found on page 16 of this report.

E. Reservoir Fluid Composition

The composition of the reservoir fluid is determined by high temperature flash. In this process, an aliquot of reservoir fluid is flashed to atmospheric pressure at a controlled rate and elevated temperature. The evolved gas is collected, quantified and analyzed. The residual oil is also quantified and analyzed. The reservoir fluid composition is arrived at by mathematically recombining the individual flashed gas and residual oil compositions.

Analytical Summary.....continued

The flashed gas analysis is performed on the HP 5890 gas chromatograph. Three columns are employed in this technology. One column is used to detect oxygen and nitrogen. The second column detects carbon dioxide, hydrogen sulphide and light hydrocarbons to propane. The third column identifies the remainder of the hydrocarbons in the flashed gas (i.e.; butanes to extinction). Helium is used as the carrier gas in all three columns. The residual oil is analyzed by capillary chromatography which adheres to the ASTM simulated distillation method. In this method, a multi-component internal standard is used to compensate for column losses.

The resulting reservoir fluid composition is detailed on pages 16 and 17 of this report.

General

A. Illustrations

Where applicable, analytical expressions best representing the PVT data reported and the corresponding statistical summaries have been provided. Refer to pages 18 to 24 of this report.

B. Data Adjustment

The total solution gas-oil ratios and the formation volume factors from the two-stage separator test have been adjusted such that this data can be used directly in volumetric and material balance calculations. Complete documentation is provided on pages 25 to 27. The adjusted data is tabulated on page 28 and is illustrated on pages 29 & 30 of this report.

CONCLUSIONS & OBSERVATIONS

Based on the information received from Hunt Oil Company, the data contained in this report and the observations made during the course of this study, the following can be concluded.

1. The bubblepoint of this reservoir fluid system was determined to be 4650 psig at the reported reservoir temperature of 130.0 °F. This pressure is less than the specified reservoir pressure of 5299 psia, indicating an undersaturated oil reservoir.

2. The reservoir fluid exhibited the behaviour of a volatile, light oil system. In other words, pressure depletion tests indicated high shrinkage values for the oil.

3. There was no visual evidence of asphaltene or wax precipitation with pressure depletion in any of the tests.

4. The adjusted data should be used in volumetric and material balance calculations.

5. Core Laboratories can recommend and perform additional tests to further define or characterize the reservoir.

TABULAR DATA

Hunt Oil Company

Hunt PCP Port Au Port #1, DST #4

52134-95-9049A

SAMPLING CONDITIONS - SUBSURFACE SAMPLES

Sample Number		4-26				4-27		
Date Well Sampled		Apr-23-95				Apr-23-95		
Time Well Sampled		17:10				17:10		
Shut-in Prior to Sampling		Flowing	Hours			Flowing		Hou
Gas-Oil Contact in the Tubing		-	ftKB			-		ftK
Oil-Water Contact in the Tubing		-	ftKB			-		ftK
Sampling Depth		11355	ftKB			11355		ftK
Reservoir Pressure		5299	psia			5299		p
Reservoir Temperature		130.0	°F			130.0		
Tubing Pressure at Surface		-	psig			-		p
Sampler Opening Pressure	2850	psig @	51.8	°F	2790	psig @	51.8	
Field Saturation Pressure	3200	psig @	51.8	°F	3400	psig @	51.8	
Type of Sampler		CDS				CDS		
Sample Transfer Pressure		4500	psig			4500		p
Sample Transferred to Container		B454				B372		
Volume of Sample Transferred		500	cc			500		
Sampled By		Core Laboratories				Core Laboratories		
Lab Opening Pressure		1140	psig			1120		p
Lab Saturation Pressure	4685	psig @	130.0	°F	4600	psig @	130.0	

Hunt Oil Company

Hunt PCP Port Au Port #1, DST #4

52134-95-9049A

VOLUMETRIC DATA

(at 130.0 °F)

Saturation Pressure (Psat)	4650 psig
Density at Psat	0.5296 gm/cc
Thermal Exp. @ 6000 psig	1.06851 V at 130.0 °F / V at 59.0 °F

AVERAGE SINGLE-PHASE COMPRESSIBILITIES

Pressure Range psig			Single-Phase Compressibility v/v/psi
6000	to	5500	23.07 E -6
5500	to	5000	26.52 E -6
5000	to	4800	30.57 E -6
4800	to	4650	34.36 E -6

Hunt Oil Company

Hunt PCP Port Au Port #1, DST #4

52134-95-9049A

PRESSURE-VOLUME RELATIONS

(at 130.0 °F)

Pressure psig	Relative Volume (A)	Y-Function (B)	Density gm/cc
6000	0.9648		0.5489
5500	0.9759		0.5426
5000	0.9888		0.5355
4900	0.9918		0.5340
4800	0.9949		0.5323
4700	0.9982		0.5305
b»4650	1.0000		0.5296
4539	1.0055	4.453	
4452	1.0101	4.385	
4090	1.0333	4.102	
3662	1.0713	3.767	
3223	1.1287	3.424	
2833	1.2045	3.120	
2470	1.3094	2.836	
2156	1.4435	2.590	
1850	1.6386	2.351	
1637	1.8349	2.185	

(A) Relative Volume: V/Vsat or volume at indicated pressure per volume at saturation pressure.

(B) Where: Y-Function = $\frac{(Psat - P)}{(Pabs) * (V/Vsat - 1)}$

Hunt Oil Company

Hunt PCP Port Au Port #1, DST #4

52134-95-9049A

DIFFERENTIAL VAPORIZATION

(at 130.0 °F)

Oil Properties

Pressure psig	Oil Density gm/cc	Relative Oil Volume Bod (A)	Relative Total Volume Btd (B)	Solution Gas/Oil Ratio Rsd (C)	Liberated Gas/Oil Ratio Rld
b»4650	0.5296	2.883	2.883	3,636	0
4450	0.5466	2.522	2.911	2,973	663
4150	0.5670	2.211	2.965	2,383	1,253
3650	0.5918	1.955	3.096	1,872	1,764
3150	0.6107	1.802	3.311	1,553	2,083
2650	0.6272	1.681	3.678	1,290	2,346
2150	0.6433	1.577	4.310	1,056	2,580
1650	0.6599	1.484	5.446	843	2,793
1150	0.6778	1.399	7.741	644	2,992
650	0.6985	1.313	13.857	449	3,187
206	0.7238	1.208	44.236	241	3,395
0	0.7666	1.040		0	3,636

Gravity of Residual Oil = 45.9 °API at 60.0 °F

Density of Residual Oil = 0.7972 gm/cc at 59.0 °F

(A) Barrel of oil at indicated pressure and temperature per barrel of residual oil at 59.0 °F.

(B) Barrels of oil plus liberated gas at indicated pressure and temperature per barrel of residual oil at 59.0 °F.

(C) Cubic feet of gas at 14.696 psia and 59.0 °F per barrel of residual oil at 59.0 °F.

Hunt Oil Company

Hunt PCP Port Au Port #1, DST #4

52134-95-9049A

DIFFERENTIAL VAPORIZATION

(at 130.0 °F)

Gas Properties

Pressure psig	Incremental Gas Relative Density (A)	Cumulative Gas Relative Density (A)	Incremental Deviation Factor Z	Gas Formation Volume Factor Bg (B)	Gas Expansion Factor 1/Bg (C)
b»4650					
4450	1.019	1.019	0.880	0.00329	303.58
4150	0.959	0.991	0.842	0.00338	295.93
3650	0.882	0.959	0.796	0.00363	275.44
3150	0.826	0.939	0.770	0.00407	245.91
2650	0.784	0.921	0.762	0.00478	209.24
2150	0.754	0.906	0.770	0.00595	168.16
1650	0.736	0.893	0.793	0.00796	125.59
1150	0.736	0.883	0.829	0.01190	84.04
650	0.772	0.876	0.879	0.02210	45.26
206	0.909	0.878	0.940	0.07114	14.06
0	1.473	0.917			

(A) Air = 1.000

(B) Cubic feet of gas at indicated pressure and temperature per cubic feet at 14.696 psia and 59.0 °F.

(C) Cubic feet of gas at 14.696 psia and 59.0 °F per cubic feet at indicated pressure and temperature.

Hunt Oil Company

Hunt PCP Port Au Port #1, DST #4

52134-95-9049A

RESERVOIR FLUID VISCOSITY

(at 130.0 °F)

Pressure psig	Oil Viscosity cp	Gas Viscosity * cp	Oil/Gas Viscosity Ratio
6000	0.200		
5500	0.194		
5000	0.187		
4900	0.186		
4800	0.185		
4700	0.184		
b»4650	0.183		
4450	0.187	0.0524	3.6
4150	0.196	0.0449	4.4
3650	0.213	0.0354	6.0
3150	0.236	0.0283	8.4
2650	0.266	0.0230	11.6
2150	0.305	0.0191	16.0
1650	0.354	0.0162	21.9
1150	0.420	0.0142	29.7
650	0.514	0.0126	40.9
206	0.660	0.0111	59.6
0	1.362		

* Gas Viscosity data calculated from correlation of Lee A.L., Gonzalez M.H., and Eakin B.E., "The Viscosity of Natural Gases", Journal of Petroleum Technology, August, 1966, pp. 997-1000.

Hunt Oil Company

Hunt PCP Port Au Port #1, DST #4

52134-95-9049A

SEPARATOR TEST OF RESERVOIR FLUID

Flash Conditions		Gas/Oil Ratio (scf/bbl) (A)	Gas/Oil Ratio (scf/STbbl) (B)	Stock Tank Oil Gravity at 60.0 °F (°API)	Formation Volume Factor Bofb (C)	Separator Volume Factor (D)	Specific Gravity of Flashed Gas (Air=1.000)	Oil Phase Density (gm/cc)
psig	°F							
Test #1								
4650	130.0							0.5269 *
204	44.6	2,114	2,363			1.117	0.735	0.7370
0	59.0	209	209	51.3	2.282	1.000	1.083	0.7740
			Rsfb = 2,572					

* Calculated by material balance of separator test volumetrics.

(A) Cubic feet of gas at 14.696 psia and 59.0 °F per barrel of oil at indicated pressure and temperature.
(B) Cubic feet of gas at 14.696 psia and 59.0 °F per barrel of stock tank oil at 59.0 °F.
(C) Barrels of saturated oil at 4650 psig and 130.0 °F per barrel of stock tank oil at 59.0 °F.
(D) Barrels of oil at indicated pressure and temperature per barrel of stock tank oil at 59.0 °F.

Hunt Oil Company

Hunt PCP Port Au Port #1, DST #4

52134-95-9049A

SEPARATOR TEST (EOS) OF RESERVOIR FLUID

Flash Conditions		Gas/Oil Ratio (scf/bbl) (A)	Gas/Oil Ratio (scf/STbbl) (B)	Stock Tank Oil Gravity at 60.0 °F (°API)	Formation Volume Factor Bofb (C)	Separator Volume Factor (D)	Specific Gravity of Flashed Gas (Air=1.000)	Oil Phase Density (gm/cc)
psig	°F							
Test #2								
4653	130.0							0.5478
1800	42.0	793	1,199			1.512	0.701	0.6520
600	42.0	495	622			1.256	0.683	0.7096
200	80.0	240	277			1.153	0.857	0.7288
0	40.0	237	237	52.8	2.135	0.998	1.333	0.7705
			Rsfb = 2,335					

(A) Cubic feet of gas at 14.696 psia and 59.0 °F per barrel of oil at indicated pressure and temperature.
(B) Cubic feet of gas at 14.696 psia and 59.0 °F per barrel of stock tank oil at 59.0 °F.
(C) Barrels of saturated oil at 4653 psig and 130.0 °F per barrel of stock tank oil at 59.0 °F.
(D) Barrels of oil at indicated pressure and temperature per barrel of stock tank oil at 59.0 °F.

COMPOSITIONAL DATA

HYDROCARBON LIQUID ANALYSIS

B372
CONTAINER IDENTITY

52134-95-9049
LABORATORY NUMBER

Hunt Oil Company
OPERATOR

17
PAGE

LOCATION

Hunt PCP Port Au Port #1 (NFLD)
WELL OR SAMPLE LOCATION

KB ELEV. (m) | GR EL

FIELD OR AREA | POOL OR ZONE | SAMPLER

DST #4
TEST TYPE & NO.

TEST RECOVERY

Reservoir Fluid (CDS Sample)
POINT OF SAMPLE

AMT. & TYPE CUSHION | @ MUD RESISTIVITY

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m^3/d | OIL m^3/d | GAS

TEST INTERVAL (meters)

SEPARATOR | RESERVOIR | 32061 | @ °C CONTAINER WHEN SAMPLED | @ °C CONTAINER WHEN RECEIVED

Pressures, kPa (gauge)

SEPARATOR 54.4

Temperatures, °C

95 04 23
DATE SAMPLED (Y/M/D)

95 05 03
DATE RECEIVED (Y/M/D)

95 05 18
DATE ANALYZED (Y/M/D)

VB
ANALYST

SIGNATURE

COMPONENT	MOLE FRACTION	MASS FRACTION	LIQUID VOLUME FRACTION	mL/m³
N_2	0.0452	0.0249	0.0173	66.2
CO_2	0.0002	0.0002	0.0001	0.5
H_2S	0.0000	0.0000	0.0000	0.0
C_1	0.5245	0.1655	0.3094	1186.3
C_2	0.1273	0.0753	0.1180	452.5
C_3	0.0595	0.0516	0.0570	218.7
iC_4	0.0121	0.0138	0.0138	52.8
C_4	0.0270	0.0309	0.0296	113.6
iC_5	0.0120	0.0170	0.0153	58.6
C_5	0.0128	0.0182	0.0161	61.9
C_{6+}	0.1794	0.6026	0.4234	1623.0
Total	1.0000	1.0000	1.0000	3834.2

OBSERVED PROPERTIES OF C_{6+} RESIDUE (15/15°C)

798.2 kg/m³ DENSITY | 0.7989 RELATIVE DENSITY | 45.8 API @ 15.5° C

171
RELATIVE MOLECULAR MASS

CALCULATED PROPERTIES OF TOTAL SAMPLE (15/15°C)

560.7 kg/m³ DENSITY | 0.5612 RELATIVE DENSITY | 120.9 API @ 15.5° C

50.83
RELATIVE MOLECULAR MASS

REMARKS:

Refer to page 18 for the extended analysis of hexanes plus.

NOTE: All Properties have been calculated utilizing GPA 2145-88 physical constants.

HYDROCARBON LIQUID ANALYSIS

Operator:	Hunt Oil Company	Page:	18
Well:	Hunt PCP Port Au Port #1 (NFLD)	File:	52134-95-9049
Sample Point:	Reservoir Fluid (CDS Sample)	Date:	95 05 18

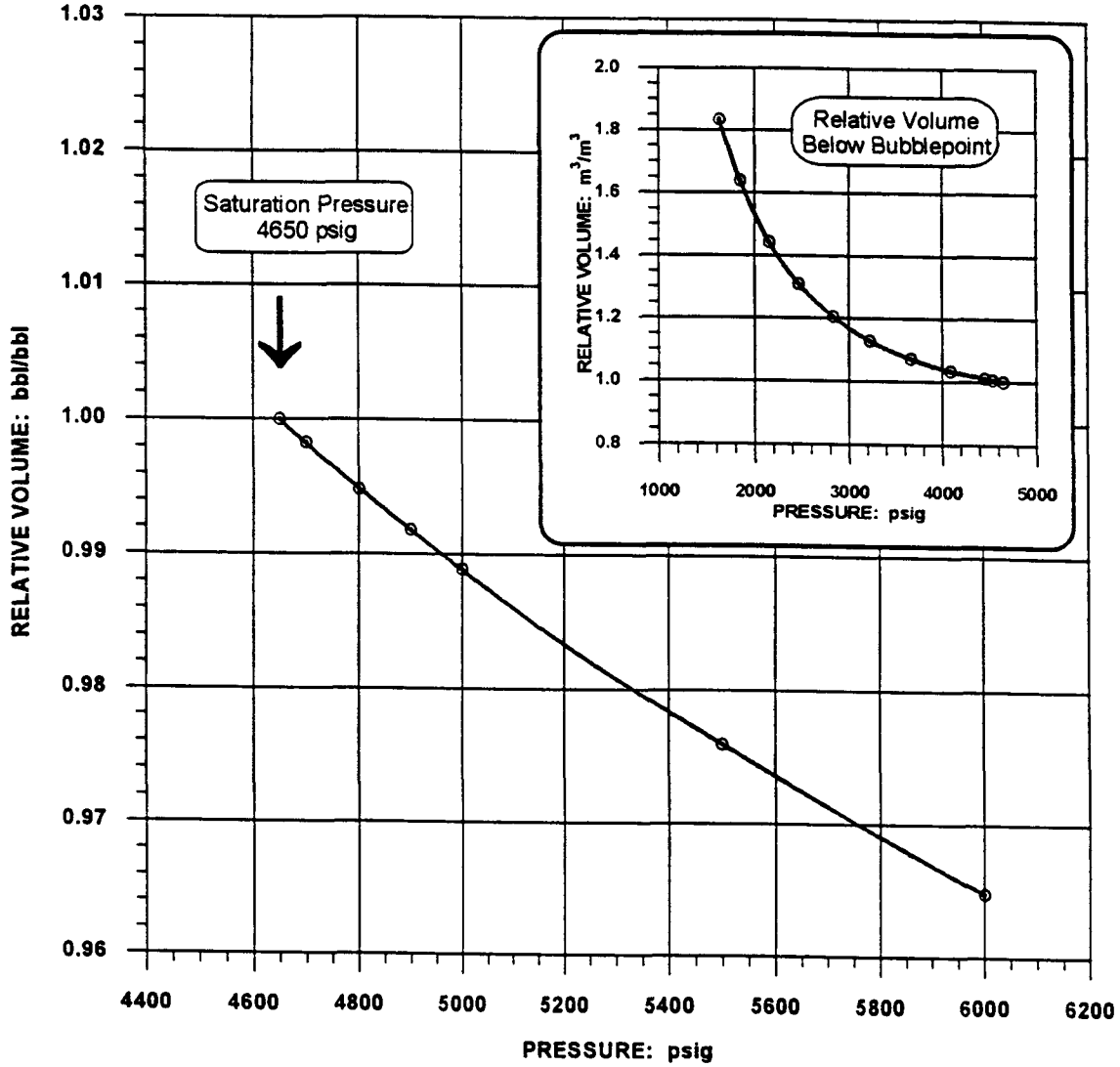
Analysis of C_{6+} Fraction

Boiling Point: Range (°C)	Component	Carbon Number	Mole Fraction	Mass Fraction	Liq. Vol. Fraction
36.1- 68.9	Hexanes	C_6	0.0188	0.0335	0.0269
68.9- 98.3	Heptanes	C_7	0.0186	0.0386	0.0298
98.3-125.6	Octanes	C_8	0.0206	0.0489	0.0368
125.6-150.6	Nonanes	C_9	0.0152	0.0403	0.0297
150.6-173.9	Decanes	C_{10}	0.0106	0.0311	0.0226
173.9-196.1	Undecanes	C_{11}	0.0088	0.0283	0.0203
196.1-215.0	Dodecanes	C_{12}	0.0086	0.0302	0.0213
215.0-235.0	Tridecanes	C_{13}	0.0068	0.0259	0.0181
235.0-252.2	Tetradecanes	C_{14}	0.0059	0.0242	0.0169
252.2-270.6	Pentadecanes	C_{15}	0.0049	0.0214	0.0148
270.6-287.8	Hexadecanes	C_{16}	0.0044	0.0205	0.0141
287.8-302.8	Heptadecanes	C_{17}	0.0036	0.0180	0.0123
302.8-317.2	Octadecanes	C_{18}	0.0029	0.0151	0.0102
317.2-330.0	Nonadecanes	C_{19}	0.0027	0.0148	0.0100
330.0-344.4	Eicosanes	C_{20}	0.0026	0.0150	0.0101
344.4-357.2	Heneicosanes	C_{21}	0.0022	0.0134	0.0090
357.2-369.4	Docosanes	C_{22}	0.0017	0.0110	0.0074
369.4-380.0	Tricosanes	C_{23}	0.0016	0.0109	0.0073
380.0-391.1	Tetracosanes	C_{24}	0.0014	0.0101	0.0066
391.1-401.7	Pentacosanes	C_{25}	0.0013	0.0098	0.0065
401.7-412.2	Hexacosanes	C_{26}	0.0011	0.0080	0.0053
412.2-422.2	Heptacosanes	C_{27}	0.0010	0.0075	0.0049
422.2-431.7	Octacosanes	C_{28}	0.0008	0.0063	0.0041
431.7-441.1	Nonacosanes	C_{29}	0.0008	0.0064	0.0042
441.1 PLUS	Triacontanes Plus	C_{30+}	0.0048	0.0589	0.0386
80.0	Benzene	C_6H_6	0.0007	0.0011	0.0006
110.6	Toluene	C_7H_8	0.0026	0.0049	0.0030
136.1-138.9	Ethylbenzene, p + m-Xylene	C_8H_{10}	0.0052	0.0113	0.0069
144.4	o-Xylene	C_8H_{10}	0.0013	0.0029	0.0017
168.9	1,2,4 Trimethylbenzene	C_9H_{12}	0.0012	0.0031	0.0019
48.9	Cyclopentane	C_5H_{10}	0.0017	0.0025	0.0017
72.2	Methylcyclopentane	C_6H_{12}	0.0033	0.0058	0.0041
81.1	Cyclohexane	C_6H_{12}	0.0034	0.0060	0.0041
101.1	Methylcyclohexane	C_7H_{14}	0.0083	0.0169	0.0116
	TOTAL		0.1794	0.6026	0.4234
	Mole Fraction of C7+				0.1589
	Mass Fraction of C7+				0.5666
	Liquid Volume Fraction of C7+				0.3948
	Calculated Relative Molecular Mass of C7+				182
	Calculated Relative Density of C7+				0.8088
	Calculated Density of C7+ (kg/m3)				808.0

ILLUSTRATIONS

Hunt Oil Company
Hunt PCP Port Au Port #1, DST #4
52134-95-9049A

RELATIVE VOLUME (V/Vs)



Analytical Expression (above bubblepoint)

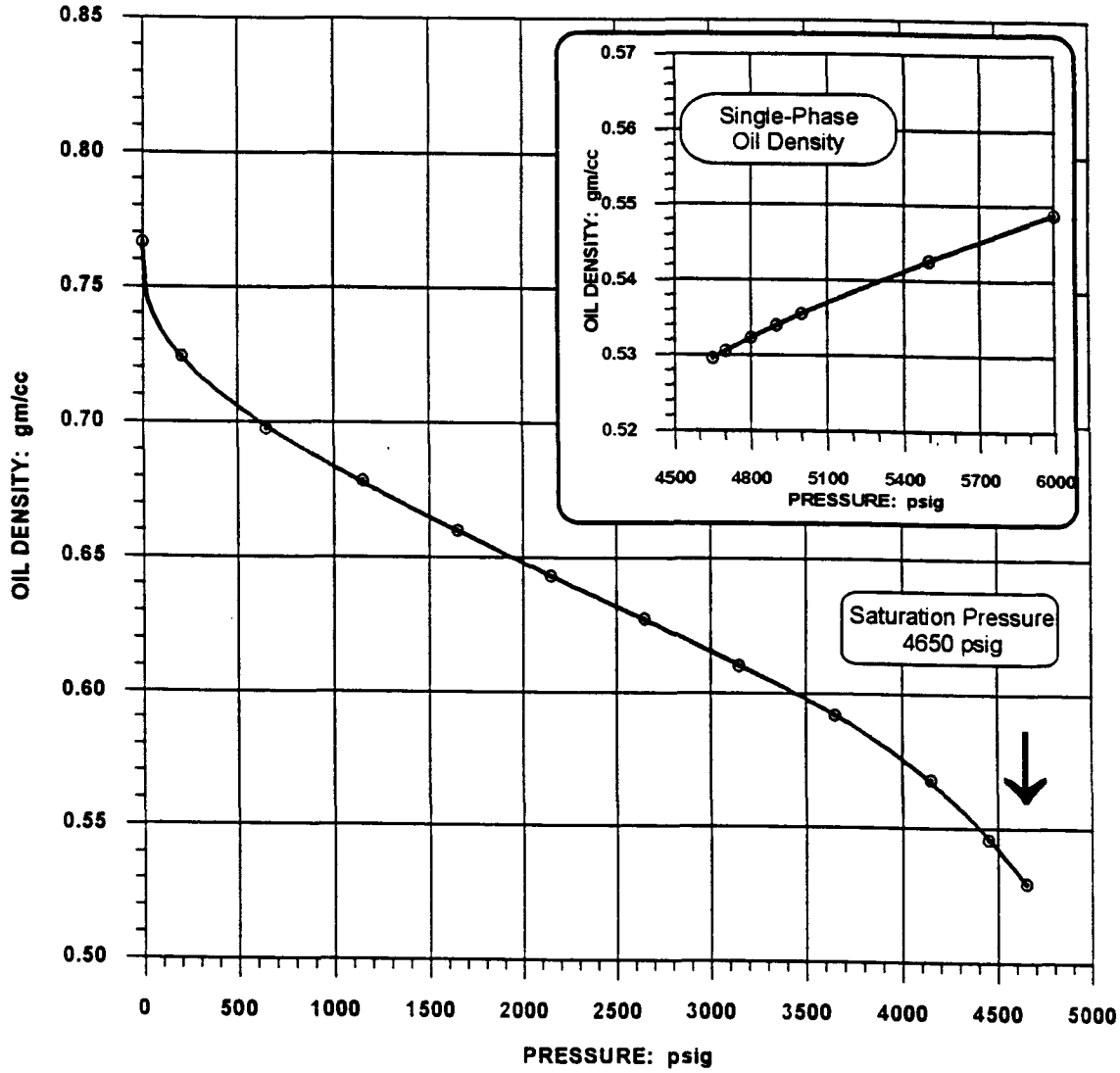
$$1.2782E02 - 2.5192E02 * (Xd)^{0.1} + 1.2510E02 * (Xd)^{0.2} - 7.5595E00 * [\log_{10}(Xd)]^{2.1}$$

where; Xd is defined as (P / Psat)

Statistical Summary		Legend	
r squared:	0.999986	⊙	Laboratory Data
Confidence Interval (+/-):	0.00007	----------	Confidence Limits
Confidence:	99 %	————	Analytical Expression

Hunt Oil Company
Hunt PCP Port Au Port #1, DST #4
52134-95-9049A

OIL DENSITY



Analytical Expression (below bubblepoint)

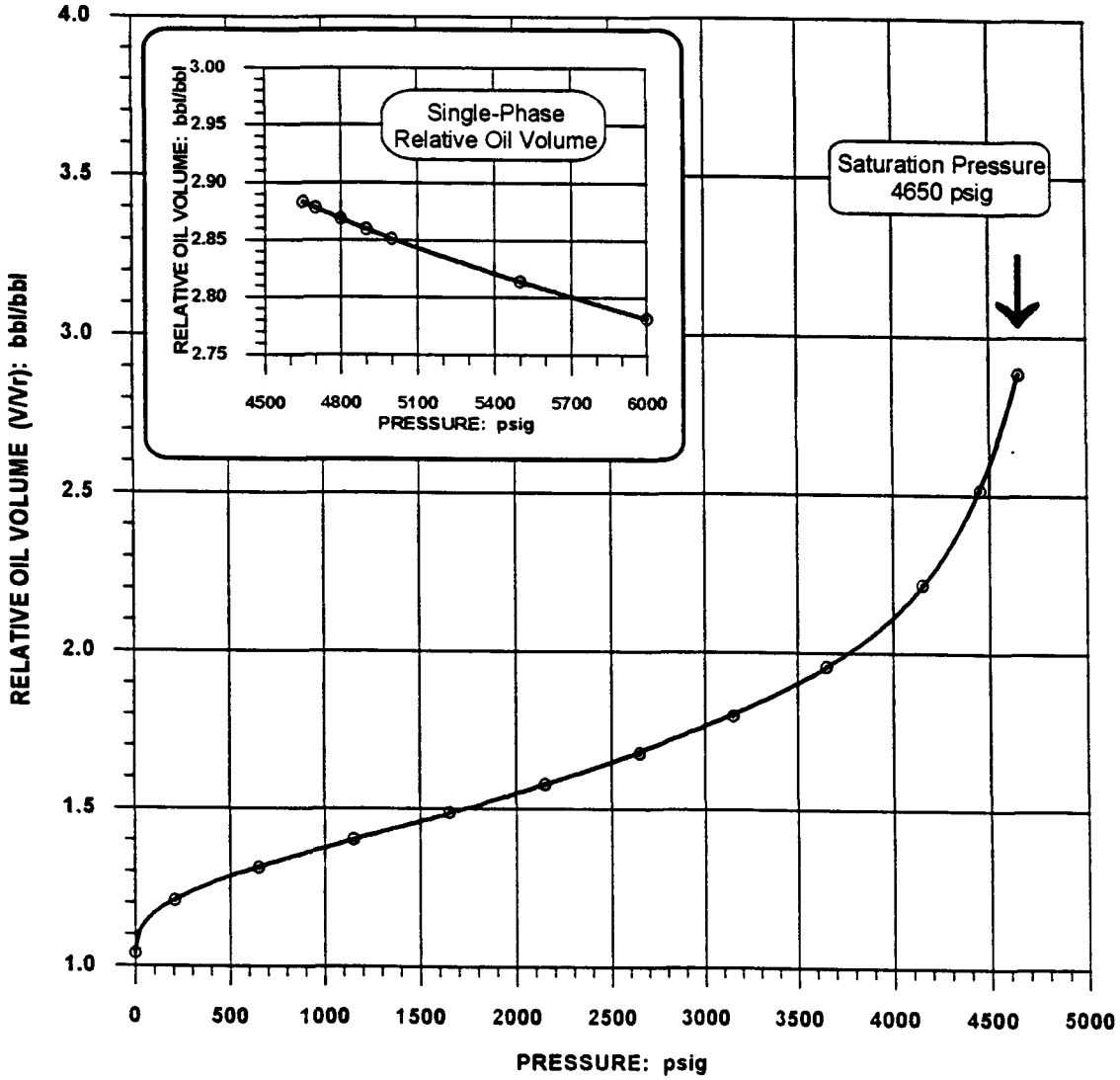
$$7.6661E\text{-}01 - 9.8077E\text{-}02 * (Xd)^{0.3} - 9.8233E\text{-}02 * (Xd)^{1.0} - 4.0744E\text{-}02 * (Xd)^{7.6}$$

where; Xd is defined as (P / Psat)

Statistical Summary		Legend	
r squared:	0.999954	⊙	Laboratory Data
Confidence Interval (+/-):	0.00044	----------	Confidence Limits
Confidence:	99 %	————	Analytical Expression

Hunt Oil Company
Hunt PCP Port Au Port #1, DST #4
52134-95-9049A

RELATIVE OIL VOLUME (V/Vr)



Analytical Expression (below bubblepoint)

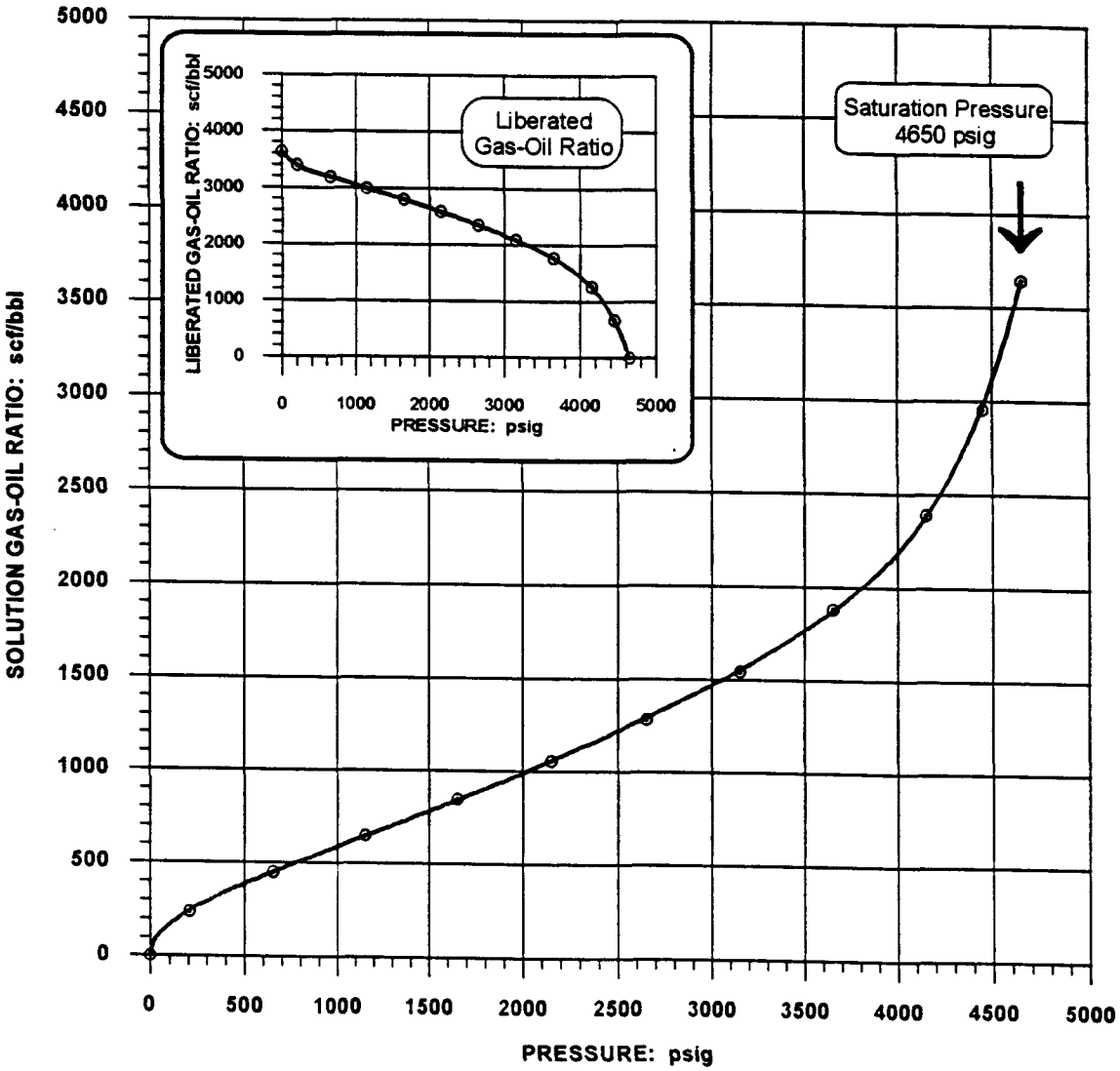
$$1.0400E00 + 1.9913E\text{-}02 * P^{0.4} + 2.3424E\text{-}09 * P^{2.3} + 2.2343E\text{-}53 * P^{14.3}$$

where; P is defined as pressure, psig

Statistical Summary		Legend	
r squared:	0.999958	⊙	Laboratory Data
Confidence Interval (+/-):	0.0032	----------	Confidence Limits
Confidence:	99 %	————	Analytical Expression

Hunt Oil Company
Hunt PCP Port Au Port #1, DST #4
52134-95-9049A

GAS-OIL RATIOS



Analytical Expression (Solution GOR - below bubblepoint)

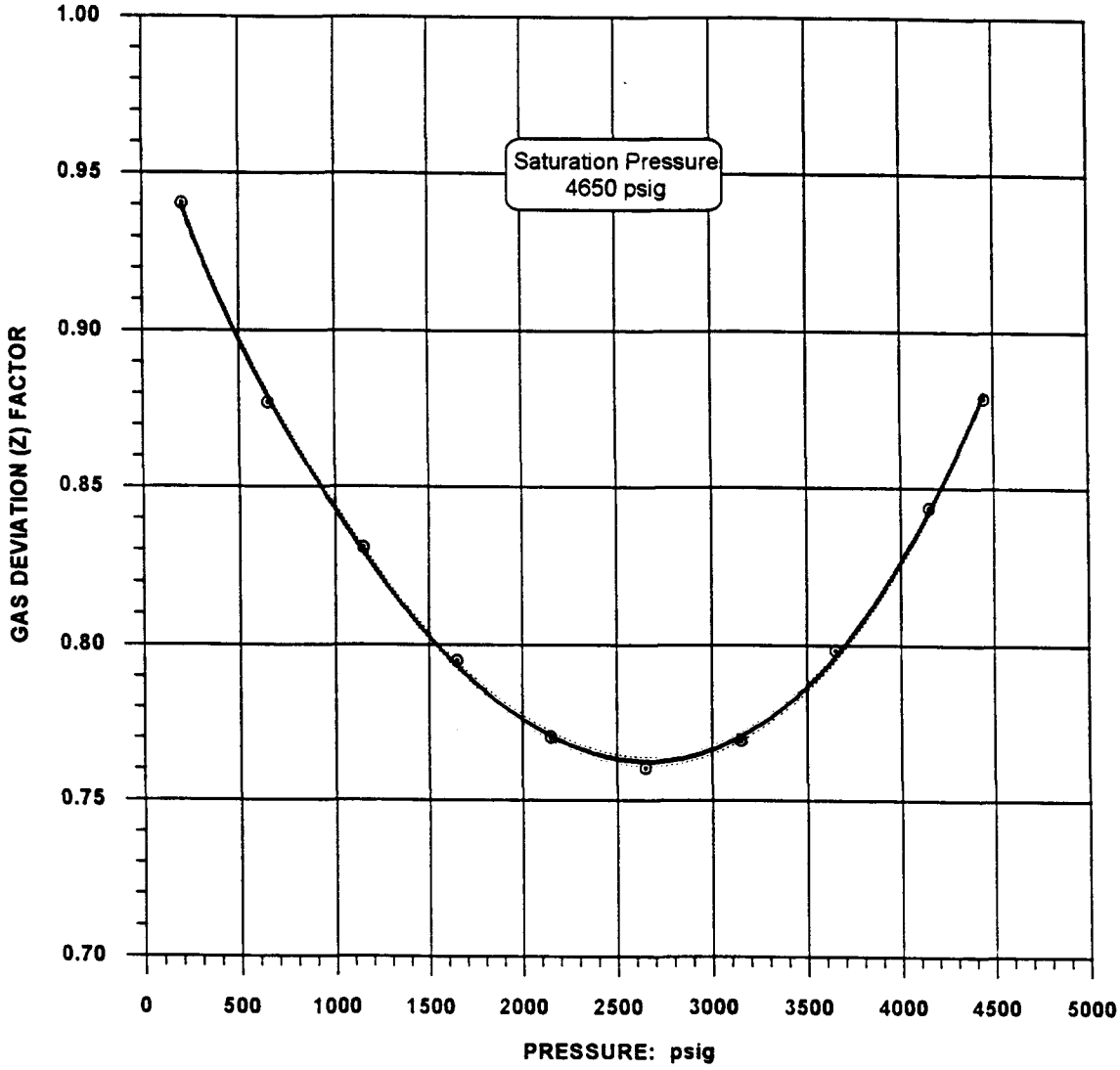
$$1.6576E01 * P^{0.5} + 6.2163E-05 * P^{2.0} + 6.6234E-48 * P^{13.7}$$

where; P is defined as pressure, psig

Statistical Summary		Legend	
r squared:	0.999948	⊙	Laboratory Data
Confidence Interval (+/-):	7.3	----------	Confidence Limits
Confidence:	99 %	————	Analytical Expression

Hunt Oil Company
Hunt PCP Port Au Port #1, DST #4
52134-96-9049A

GAS DEVIATION (Z) FACTOR



Analytical Expression

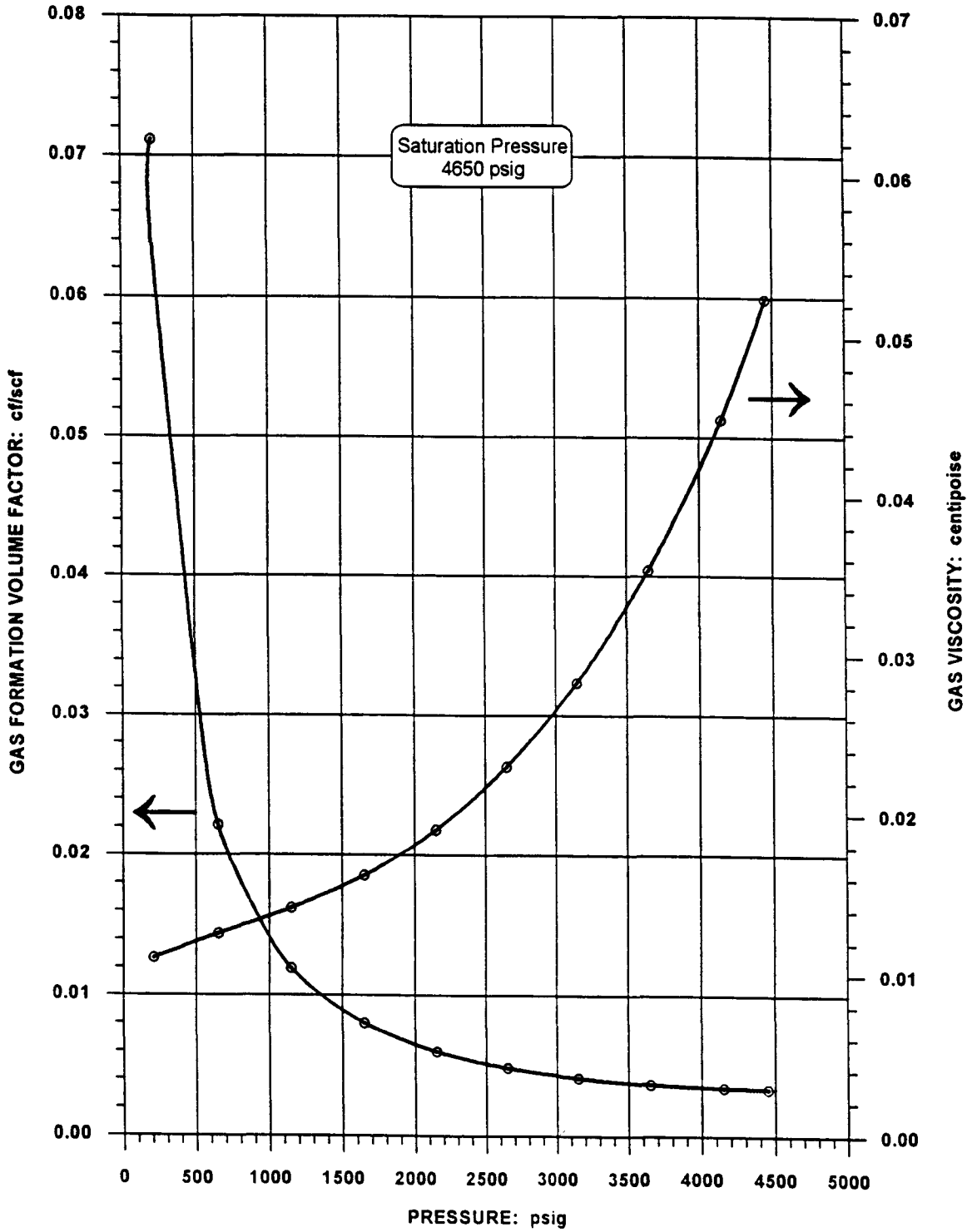
$$1.0001E00 - 2.3467E\text{-}01 * (Xd)^{0.5} - 2.4997E\text{-}01 * (Xd)^{1.0} + 3.9462E\text{-}01 * (Xd)^{2.8}$$

where; Xd is defined as (P / Psat)

Statistical Summary		Legend	
r squared:	0.999616	⊙	Laboratory Data
Confidence Interval (+/-):	0.0014	----------	Confidence Limits
Confidence:	99 %	————	Analytical Expression

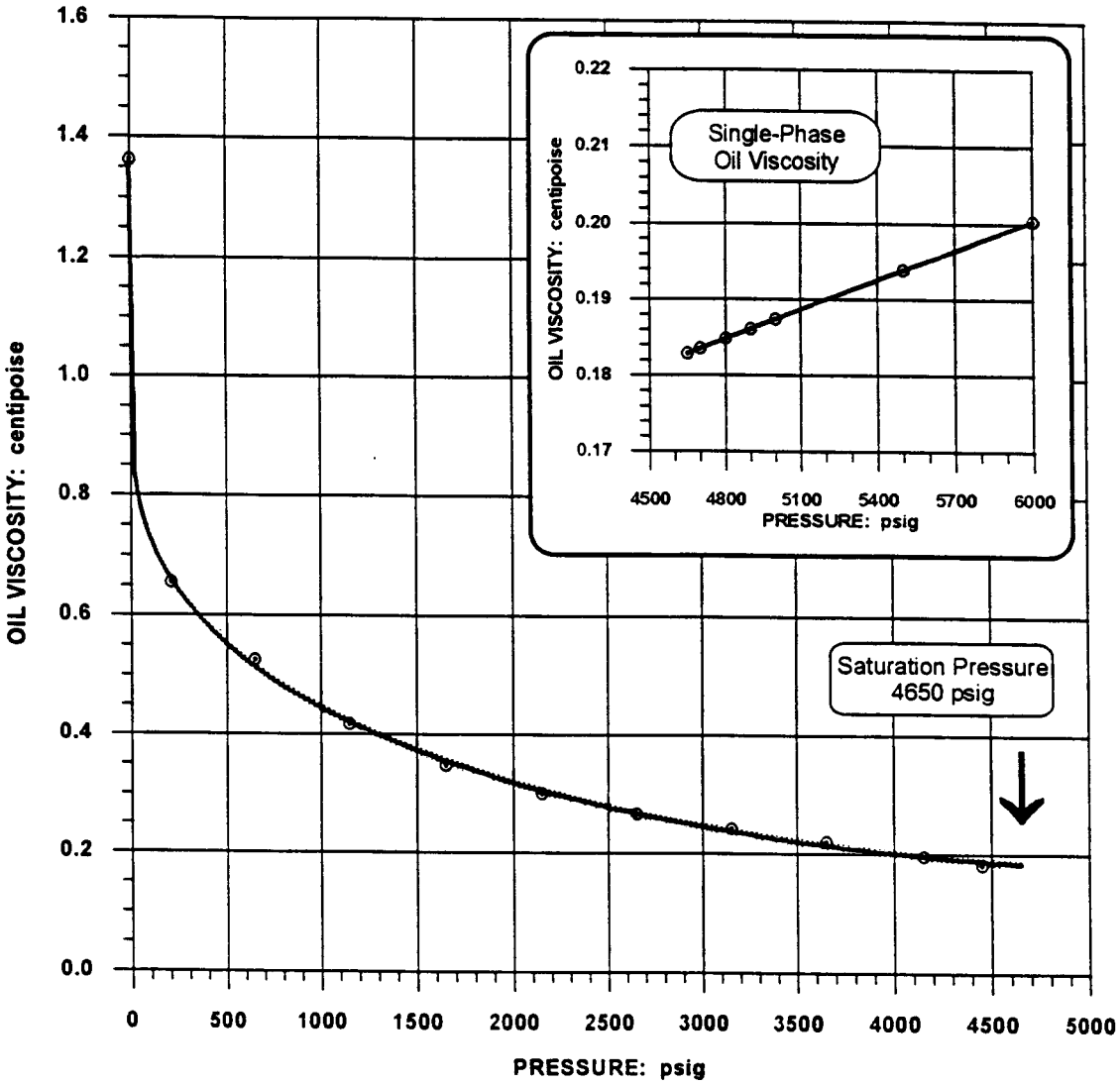
Hunt Oil Company
Hunt PCP Port Au Port #1, DST #4
52134-96-9049A

GAS FORMATION VOLUME FACTOR & GAS VISCOSITY



Hunt Oil Company
Hunt PCP Port Au Port #1, DST #4
52134-95-9049A

OIL VISCOSITY



Analytical Expression (below bubblepoint)

$$1.3622E00 - 8.8696E\text{-}01 * (Xd)^{0.1} - 1.5561E00 * (Xd)^{0.9} + 1.2637E00 * (Xd)^{1.1}$$

where; Xd is defined as (P / Psat)

Statistical Summary		Legend	
r squared:	0.999697	⊙	Laboratory Data
Confidence Interval (+/-):	0.0057	----------	Confidence Limits
Confidence:	99 %	————	Analytical Expression

DATA ADJUSTMENT

INTRODUCTION TO DATA ADJUSTMENT

Reservoir fluids, while being produced, simultaneously undergo two different thermodynamic processes. One is the flash separation process which occurs in surface separation facilities and the second is insitu reservoir fluid expansion ultimately resulting in differential equilibrium separation of gas and oil in the reservoir during reservoir pressure decline.

Flash separation data are referenced to reservoir fluid volumes at saturation pressure (bubblepoint). The data are useable only at the specific instant when the reservoir pressure is equal to the saturation pressure as determined in the PVT study.

It is therefore necessary to adjust flash separation data to account for the insitu changes in reservoir fluid properties that will occur during primary pressure depletion. Both the flash solution gas-oil ratio data (Rs) and the flash formation volume factor data (Bo) require adjustment for pressures above and below the saturation pressure.

A. Solution Gas-Oil Ratio (Rs)

Pressure above Ps: No correction is required as no gas will escape from solution at pressures above the saturation pressure. Therefore, Rs is equal to flash Rs at all pressures in excess of Ps.

Pressures below Ps: Due to insitu differential equilibrium separation of gas and oil, flash separator data must be corrected as follows:

Introduction to Data Adjustment.....continued

$$Rs = Rsfb - (Rsdb - Rsd) * (Bofb / Bodb)$$

where; **Rs** = Adjusted solution gas-oil ratio
Rsfb = Total gas-oil ratio from flash at saturation pressure
Rsdb = Gas-oil ratio from differential liberation at saturation pressure
Rsd = Gas-oil ratio from differential liberation at pressure less than saturation pressure
Bofd = Formation volume factor from flash at saturation pressure
Bodb = Relative oil volume from differential liberation at saturation pressure

This correction must be made for all D.V. gas-oil ratio data points below saturation pressure.

B. Formation Volume Factor (Bo)

Pressures above Ps: Because flash formation volume factors are referenced to a volume at saturation pressure, Bo at pressures above saturation pressure must be corrected to account for oil compressibility. The adjustment is:

$$Bo = Bofb * V/Vsat$$

where; **Bo** = Adjusted flash formation volume factor for pressures above saturation pressure
Bofb = Formation volume factor from flash at saturation pressure
V/Vsat= Relative volume from pressure volume relations at pressure above saturation pressure

Introduction to Data Adjustment.....continued

Pressure below Ps: Because insitu oil shrinkage occurs due to differential gas liberation at pressures below the saturation pressure (Ps), flash formation volume factors which are referenced to a volume at saturation pressure must be corrected to reflect insitu reservoir fluid shrinkage. The adjustment is as follows:

Bo = Bod * Bofd / Bodb

where; **Bo** = Adjusted flash formation volume factor for pressures below saturation pressure

Bod = Relative oil volume from differential liberation at pressure below saturation pressure

Bofb = Formation volume factor from flash at saturation pressure

Bodb = Relative oil volume from differential liberation at saturation pressure

This adjustment must be made for all D.V. relative oil volumes below saturation pressure.

The above adjustments have been made on your behalf and are reported on the following pages.

Hunt Oil Company

Hunt PCP Port Au Port #1, DST #4

52134-95-9049A

DIFFERENTIAL VAPORIZATION

ADJUSTED TO SEPARATOR CONDITIONS*

	Pressure psig	Solution Gas/Oil Ratio Rs (A)	Formation Volume Factor Bo (B)	Gas Formation Volume Factor (C)	Oil Density gm/cc	Oil/Gas Viscosity Ratio
	6000	2572	2.201		0.5489	
	5500	2572	2.227		0.5426	
	5000	2572	2.256		0.5355	
	4900	2572	2.263		0.5340	
	4800	2572	2.270		0.5323	
	4700	2572	2.278		0.5305	
b»	4650	2572	2.282		0.5296	
	4450	2047	1.996	0.00329	0.5466	3.6
	4150	1580	1.750	0.00338	0.5670	4.4
	3650	1175	1.547	0.00363	0.5918	6.0
	3150	923	1.426	0.00407	0.6107	8.4
	2650	715	1.331	0.00478	0.6272	11.6
	2150	530	1.248	0.00595	0.6433	16.0
	1650	361	1.175	0.00796	0.6599	21.9
	1150	204	1.107	0.01190	0.6778	29.7
	650	49	1.039	0.02210	0.6985	40.9

*Separator Conditions	
First Stage	204 psig at 44.6 °F
Stock Tank	0 psig at 59.0 °F

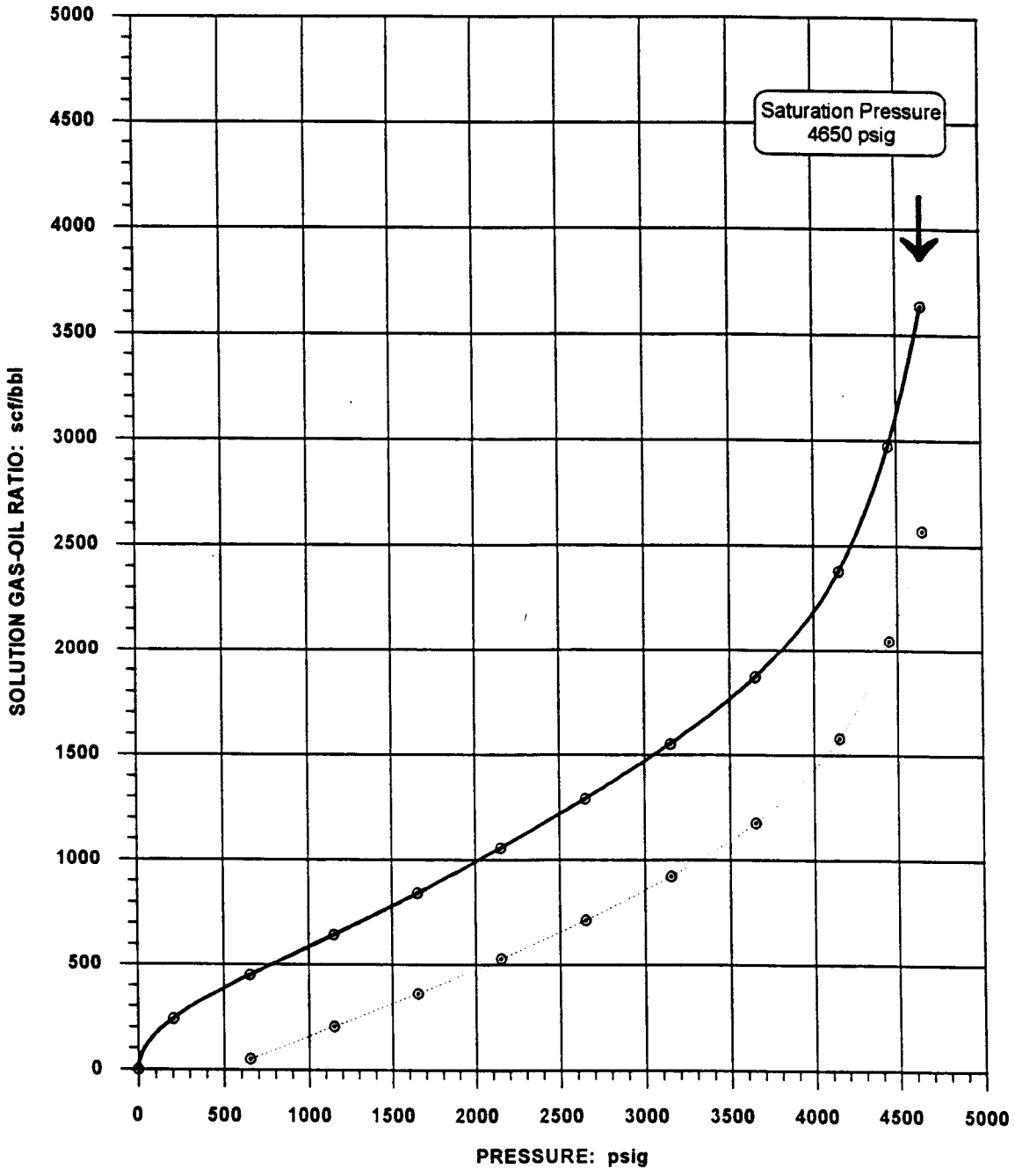
(A) Cubic feet of gas at 14.696 psia and 59.0 °F per barrel of stock tank oil at 59.0 °F.

(B) Barrel of oil at indicated pressure and temperature per barrel of stock tank oil at 59.0 °F.

(C) Cubic feet of gas at indicated pressure and temperature per cubic feet at 14.696 psia and 59.0 °F.

Hunt Oil Company
Hunt PCP Port Au Port #1, DST #4
52134-95-9049A

ADJUSTED SOLUTION GAS-OIL RATIOS

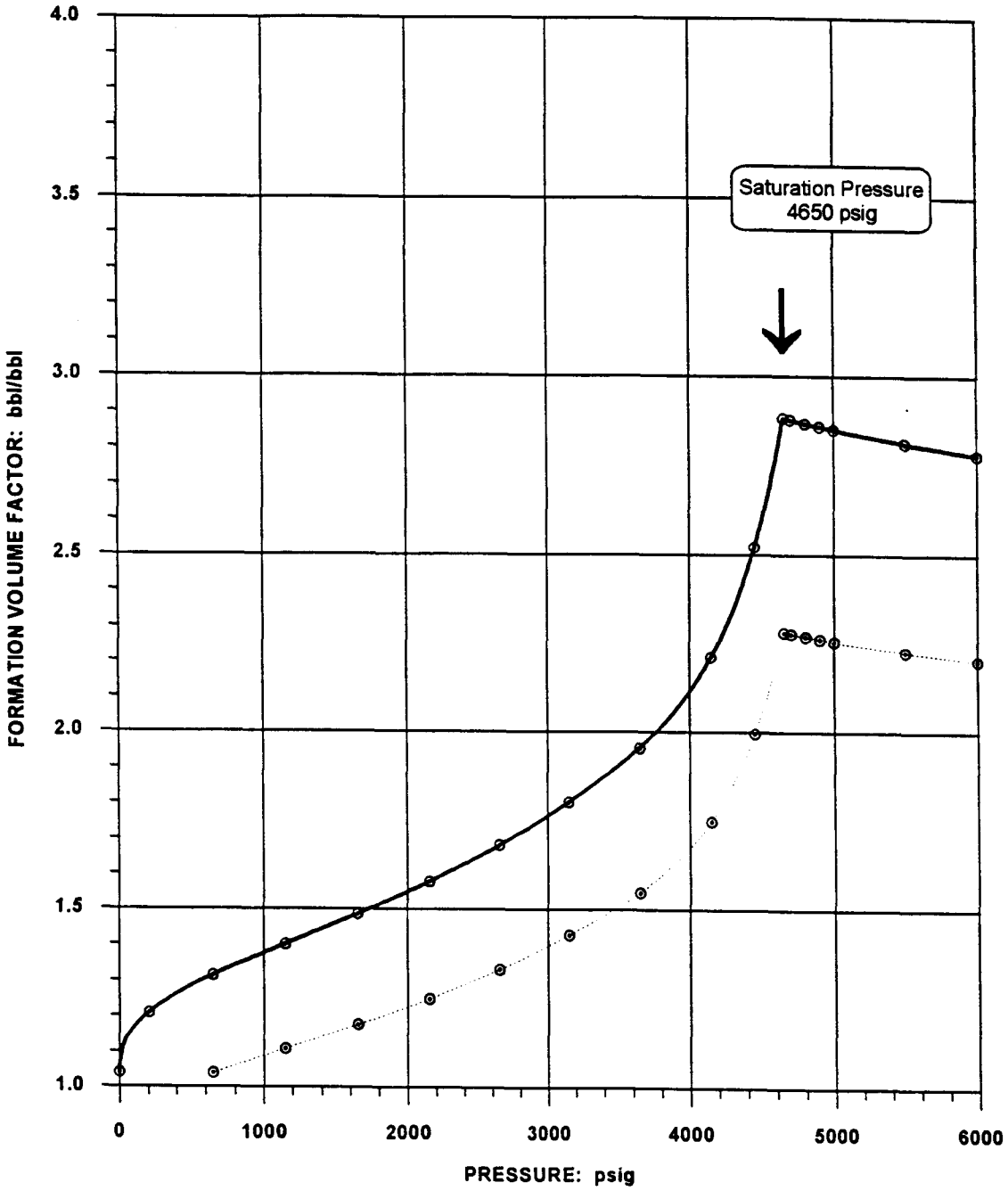


Legend

Differential Vaporization
Separator Test (204 psig at 44.6 °F)

Hunt Oil Company
Hunt PCP Port Au Port #1, DST #4
52134-95-9049A

ADJUSTED FORMATION VOLUME FACTORS



Legend

Differential Vaporization
Separator Test (204 psig at 44.6 °F)

SURFACE SAMPLE ANALYSES

GAS ANALYSIS

Z443
CONTAINER IDENTITY

52134-95-0606
LABORATORY NUMBER

Hunt Oil Company
OPERATOR

32
PAGE

LOCATION

Hunt PCP Port Au Port #1 (NFLD)
WELL OR SAMPLE LOCATION

KB ELEV. (m)

GR ELE

FIELD OR AREA

POOL OR ZONE

Core Laboratories
SAMPLER

TEST TYPE & NO.

TEST RECOVERY

Separator - Meter Run
POINT OF SAMPLE

AMT. & TYPE CUSHION

@
MUD RESISTIVITY

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m^3/d | OIL m^3/d | GAS

TEST INTERVAL (meters)

1407
SEPARATOR

RESERVOIR

@ °C
CONTAINER WHEN SAMPLED

1450 @ 22 °C
CONTAINER WHEN RECEIVED

7.0
SEPARATOR

Pressures, kPa (gauge)

Temperatures, °C

11:45 Hrs

95 05 20
DATE SAMPLED (Y/M/D)

95 05 16
DATE RECEIVED (Y/M/D)

95 05 16
DATE ANALYZED (Y/M/D)

AD
ANALYST

SIGNATURE

COMPONENT	MOLE FRACTION AIR FREE AS RECEIVED	MOLE FRACTION AIR FREE ACID GAS FREE	mL/m^3 AIR FREE AS RECEIVED
H_2	0.0001	0.0001	
He	0.0004	0.0004	
N_2	0.0619	0.0619	
CO_2	0.0003	0.0000	
H_2S	0.0000	0.0000	
C_1	0.7202	0.7205	
C_2	0.1547	0.1547	549.9
C_3	0.0457	0.0457	168.0
iC_4	0.0052	0.0052	22.7
C_4	0.0082	0.0082	34.5
iC_5	0.0015	0.0015	7.3
C_5	0.0012	0.0012	5.8
C_6	0.0005	0.0005	2.7
C_{7+}	0.0001	0.0001	0.7
Total	1.0000	1.0000	791.7

CALCULATED GROSS HEATING VALUE
MJ/m^3 @ 15°C & 101.325 kPa (abs.)

43.96
MOISTURE FREE

43.97
MOISTURE & ACID GAS FREE

CALCULATED VAPOR PRESSURE
kPa (abs.) @ 40.0°C

116.6
PENTANES PLUS

CALCULATED TOTAL SAMPLE PROPERTIES (AIR=1) @ 15°C & 101.325 kPa
MOISTURE FREE AS SAMPLED

0.889 kg/m^3
DENSITY

0.725
RELATIVE DENSITY

21.0
RELATIVE MOLECULAR MASS

CALCULATED PSEUDOCRITICAL PROPERTIES

AS SAMPLED		ACID GAS FREE	
4534.6 kPa (abs)	216.5 K	kPa (abs)	K
pPc	pTc	pPc	pTc

REMARKS:

NOTE: THE GROSS HEATING VALUE HAS BEEN CALCULATED IN ACCORDANCE TO AGA REPORT #5 AND ALL PROPERTIES HAVE BEEN CALCULATED UTILIZING GPA 2145-88 PHYSICAL CONSTANTS.

HYDROCARBON LIQUID ANALYSIS

V6879 — CONTAINER IDENTITY

52134-95-0606 — LABORATORY NUMBER

Hunt Oil Company — OPERATOR

33 — PAGE

LOCATION

Hunt PCP Port Au Port #1 (NFLD) — WELL OR SAMPLE LOCATION

KB ELEV. (m)

GR. ELEV.

FIELD OR AREA

POOL OR ZONE

Core Laboratories — SAMPLER

DST #4 — TEST TYPE & NO.

TEST RECOVERY

Separator - Meter Run — POINT OF SAMPLE

AMT. & TYPE CUSHION

@ MUD RESISTIVITY

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m^3/d | OIL m^3/d | GAS

TEST INTERVAL (meters)

1407 — SEPARATOR

RESERVOIR

@ °C — CONTAINER WHEN SAMPLED

@ °C — CONTAINER WHEN RECEIVED

7.0 — SEPARATOR

Pressures, kPa (gauge)

Temperatures, °C

11:45 Hrs

95 05 20 — DATE SAMPLED (Y/M/D)

95 05 16 — DATE RECEIVED (Y/M/D)

95 05 18 — DATE ANALYZED (Y/M/D)

VB — ANALYST

SIGNATURE

COMPONENT	MOLE FRACTION	MASS FRACTION	LIQUID VOLUME FRACTION	mL/m³
N_2	0.0007	0.0002	0.0001	1.0
CO_2	0.0000	0.0000	0.0000	0.0
H_2S	0.0000	0.0000	0.0000	0.0
C_1	0.0571	0.0076	0.0185	129.1
C_2	0.0817	0.0203	0.0417	290.4
C_3	0.0963	0.0351	0.0508	354.0
iC_4	0.0270	0.0130	0.0169	117.9
C_4	0.0690	0.0332	0.0417	290.4
iC_5	0.0350	0.0209	0.0246	171.1
C_5	0.0376	0.0224	0.0261	181.8
C_{6+}	0.5956	0.8473	0.7796	5428.2
Total	1.0000	1.0000	1.0000	6964.0

OBSERVED PROPERTIES OF C_{6+} RESIDUE (15/15°C)

798.6 kg/m³ — DENSITY

0.7994 — RELATIVE DENSITY

45.7 — API @ 15.5° C

172 — RELATIVE MOLECULAR MASS

CALCULATED PROPERTIES OF TOTAL SAMPLE (15/15°C)

734.6 kg/m³ — DENSITY

0.7353 — RELATIVE DENSITY

61.1 — API @ 15.5° C

120.96 — RELATIVE MOLECULAR MASS

REMARKS:

On arrival the sample had a room temperature (20.0 Deg. C), saturation pressure of 1551 kPa.

Refer to page 34 for the extended analysis of hexanes plus.

NOTE: All Properties have been calculated utilizing GPA 2145-88 physical constants.

HYDROCARBON LIQUID ANALYSIS

Operator:	Hunt Oil Company	Page:	34
Well:	Hunt PCP Port Au Port #1 (NFLD)	File:	52134-95-0606
Sample Point:	Separator - Meter Run	Date:	95 05 18

Analysis of C_{6+} Fraction

Boiling Point: Range (°C)	Component	Carbon Number	Mole Fraction	Mass Fraction	Liq. Vol. Fraction
36.1- 68.9	Hexanes	C_6	0.0593	0.0422	0.0445
68.9- 98.3	Heptanes	C_7	0.0544	0.0450	0.0458
98.3-125.6	Octanes	C_8	0.0600	0.0565	0.0561
125.6-150.6	Nonanes	C_9	0.0432	0.0458	0.0444
150.6-173.9	Decanes	C_{10}	0.0423	0.0497	0.0475
173.9-196.1	Undecanes	C_{11}	0.0343	0.0443	0.0416
196.1-215.0	Dodecanes	C_{12}	0.0327	0.0460	0.0428
215.0-235.0	Tridecanes	C_{13}	0.0260	0.0396	0.0364
235.0-252.2	Tetradecanes	C_{14}	0.0224	0.0367	0.0335
252.2-270.6	Pentadecanes	C_{15}	0.0189	0.0332	0.0302
270.6-287.8	Hexadecanes	C_{16}	0.0168	0.0314	0.0284
287.8-302.8	Heptadecanes	C_{17}	0.0140	0.0278	0.0249
302.8-317.2	Octadecanes	C_{18}	0.0113	0.0237	0.0212
317.2-330.0	Nonadecanes	C_{19}	0.0102	0.0226	0.0200
330.0-344.4	Eicosanes	C_{20}	0.0097	0.0226	0.0200
344.4-357.2	Heneicosanes	C_{21}	0.0084	0.0206	0.0182
357.2-369.4	Docosanes	C_{22}	0.0067	0.0172	0.0152
369.4-380.0	Tricosanes	C_{23}	0.0064	0.0172	0.0150
380.0-391.1	Tetracosanes	C_{24}	0.0055	0.0154	0.0135
391.1-401.7	Pentacosanes	C_{25}	0.0052	0.0151	0.0131
401.7-412.2	Hexacosanes	C_{26}	0.0043	0.0130	0.0112
412.2-422.2	Heptacosanes	C_{27}	0.0039	0.0123	0.0107
422.2-431.7	Octacosanes	C_{28}	0.0031	0.0101	0.0087
431.7-441.1	Nonacosanes	C_{29}	0.0031	0.0105	0.0090
441.1 PLUS	Triacontanes Plus	C_{30+}	0.0180	0.0893	0.0766
80.0	Benzene	C_6H_6	0.0022	0.0014	0.0011
110.6	Toluene	C_7H_8	0.0068	0.0052	0.0041
136.1-138.9	Ethylbenzene, p + m-Xylene	C_8H_{10}	0.0118	0.0103	0.0083
144.4	o-Xylene	C_8H_{10}	0.0065	0.0057	0.0045
168.9	1,2,4 Trimethylbenzene	C_9H_{12}	0.0039	0.0039	0.0031
48.9	Cyclopentane	C_5H_{10}	0.0032	0.0019	0.0017
72.2	Methylcyclopentane	C_6H_{12}	0.0088	0.0061	0.0057
81.1	Cyclohexane	C_6H_{12}	0.0104	0.0072	0.0065
101.1	Methylcyclohexane	C_7H_{14}	0.0219	0.0178	0.0161
	TOTAL		0.5956	0.8473	0.7796

Mole Fraction of C7+	0.5331
Mass Fraction of C7+	0.8032
Liquid Volume Fraction of C7+	0.7334
Calculated Relative Molecular Mass of C7+	182
Calculated Relative Density of C7+	0.8081
Calculated Density of C7+ (kg/m3)	807.4

FINAL WELL REPORT

NHOC/PanCanadian Port au Port No. 1

APPENDIX V

PRODUCTION TEST DATA

V-13 Deposit Analysis ..... Core Lab

NEWFOUNDLAND HUNT OIL COMPANY INC.

JULY 1996

RECEIVED
JUL 3 1 1995

Deposit Analysis
Hunt PCP Port Au Port # 1
for

Hunt Oil Company

File number 52134-95-4217
July 27, 1995

A product of
Core Laboratories

Report Distribution: Kit Weaver, Hunt Oil Company, 2 copies and invoice
Laureen Little, PanCanadian Petroleum Ltd., 1 copy

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COMPANY: **Hunt Oil Company** **File # 52134-95-4217**
PROJECT: **Deposit Analysis**
Hunt PCP Port Au Port # 1

Sample 1. Flowline deposit

Analysis revealed this sample to be halite or sodium chloride.

The sample was a white, hard, crystalline-like material.

The sample was found to be 99.8 % soluble in water at room temperature.

XRD analysis (attached) confirmed the crystalline nature of this sample. XRD analysis showed this sample to be halite or sodium chloride (salt).

EDX analysis (attached) supported the XRD finding. Sodium and chlorine were the elements detected.

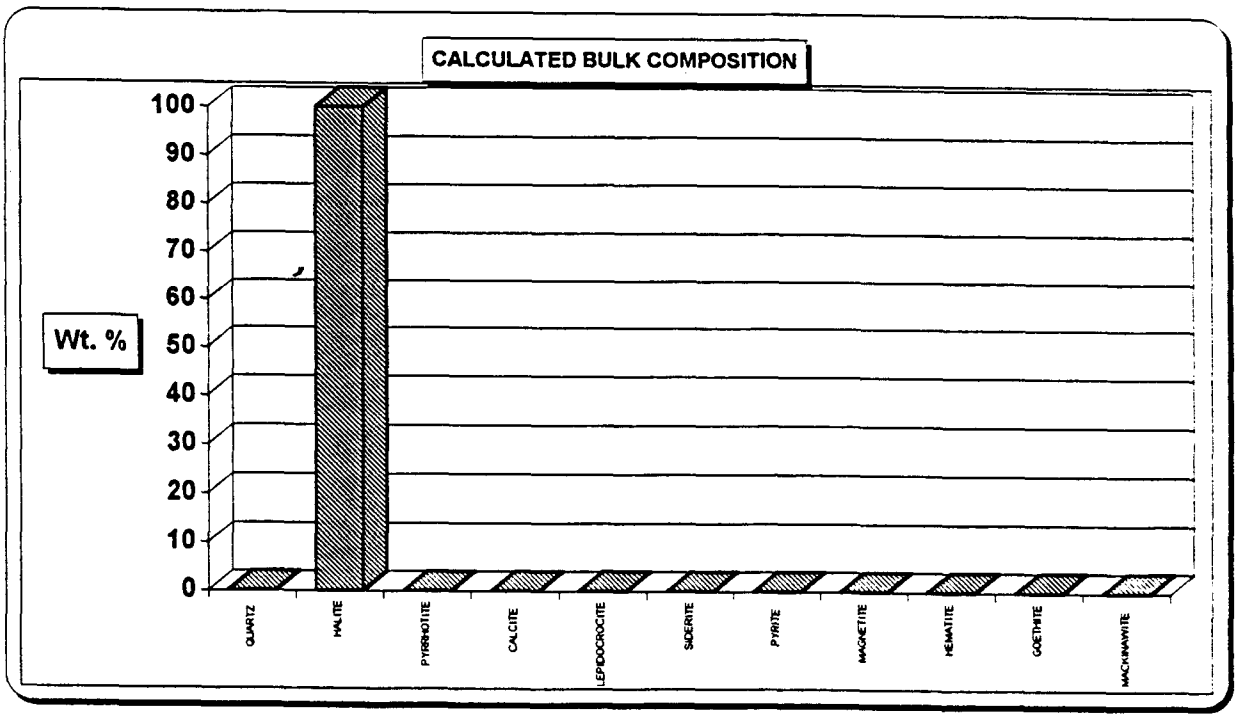
EDX analysis provides elemental composition data for elements with an atomic number > 11 or sodium.

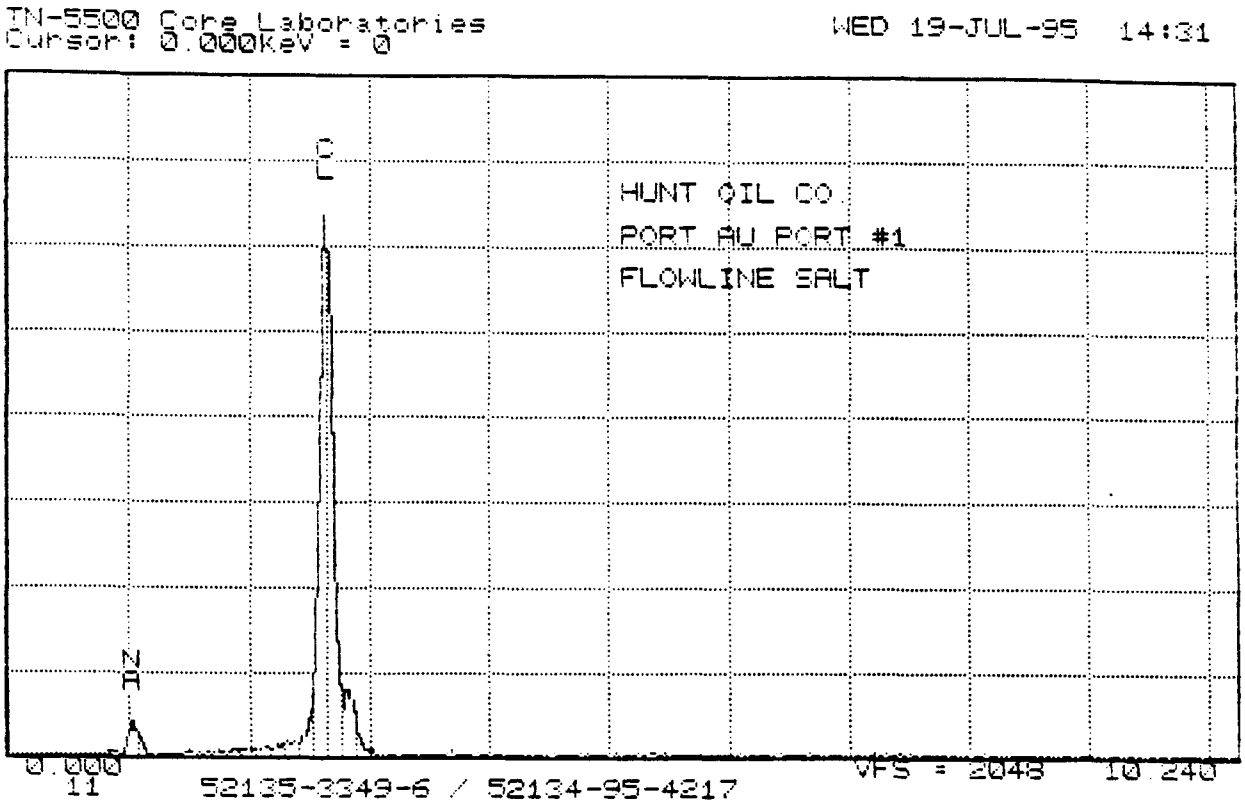
CORE Laboratories Canada Ltd.

X-RAY DIFFRACTION ANALYSIS

COMPANY: HUNT OIL COMPANY
SAMPLE: PORT AU PORT #1
FLOWLINE SALT
FILE NO: 52135-95-3349-6
52134-95-4217

		WHOLE SAMPLE BULK ANALYSIS (wt.%)
QUARTZ	(SiO_2)	0
HALITE	(NaCl)	100
PYRRHOTITE	(FeS)	0
CALCITE	($CaCO_3$)	0
LEPIDOCROCITE	(γ-FeO[OH])	0
SIDERITE	($FeCO_3$)	0
PYRITE	(FeS_2)	0
MAGNETITE	(Fe_3O_4)	0
HEMATITE	(Fe_2O_3)	0
GOETHITE	(α-FeO[OH])	0
MACKINAWITE	(Fe_9S_8)	0

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HUNT OIL CO
PORT AU PORT #1
FLOWLINE SALT
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0.000
11
52135-3349-6 / 52134-95-4217
VFS = 2048
10.240

Sample 2. Wax deposit

Analysis revealed this sample to be 99.2 % wax.

The sample had an appearance and consistency like that for a typical wax deposit, but with what appeared to be "white nodules" throughout the wax matrix.

Compositional analysis, bulk sample

Toluene insoluble	0.8 weight %
Asphaltenes	0.1
Wax and oil	99.1

Notes:

Toluene insoluble content represents inorganic material (in most cases).
Asphaltenes are defined to be the fraction which is toluene soluble but pentane insoluble.
Wax and oil content defined as the hot toluene soluble fraction less the asphaltenes and determined by difference.

Comments:

The sample is almost entirely wax (99+ %).

The hydrocarbon profile (attached) for the bulk sample shows the wax window for this sample centered at nC40 to nC42. This is an intermediate type wax deposit.

The wax window in the hydrocarbon profile (attached) for the wax excluding the "white nodules" is identical to that for the bulk sample.

The "white nodules" were isolated and also further characterized.

The "white nodules" were 99.5 % soluble in toluene, inferring that it is hydrocarbon in nature (wax).

The hydrocarbon profile (attached) shows the "white nodules" to be very similar in composition like that for the bulk wax. It appears that the "wax matrix" and "wax nodules" are of identical composition, although the nodules exist as discrete entities within the matrix. *It is unclear as to why the sample has these discrete "white nodules", which are wax also, dispersed throughout the wax deposit.*

There appears to be very little salt within the wax deposit. Based on toluene solubility, less than 1 % was inorganic (the salt sample, when tested, was insoluble in toluene). Further characterization of this small inorganic fraction by XRD showed it to be non-crystalline. In addition, EDX characterization showed the presence of iron primarily, and not sodium or chlorine.

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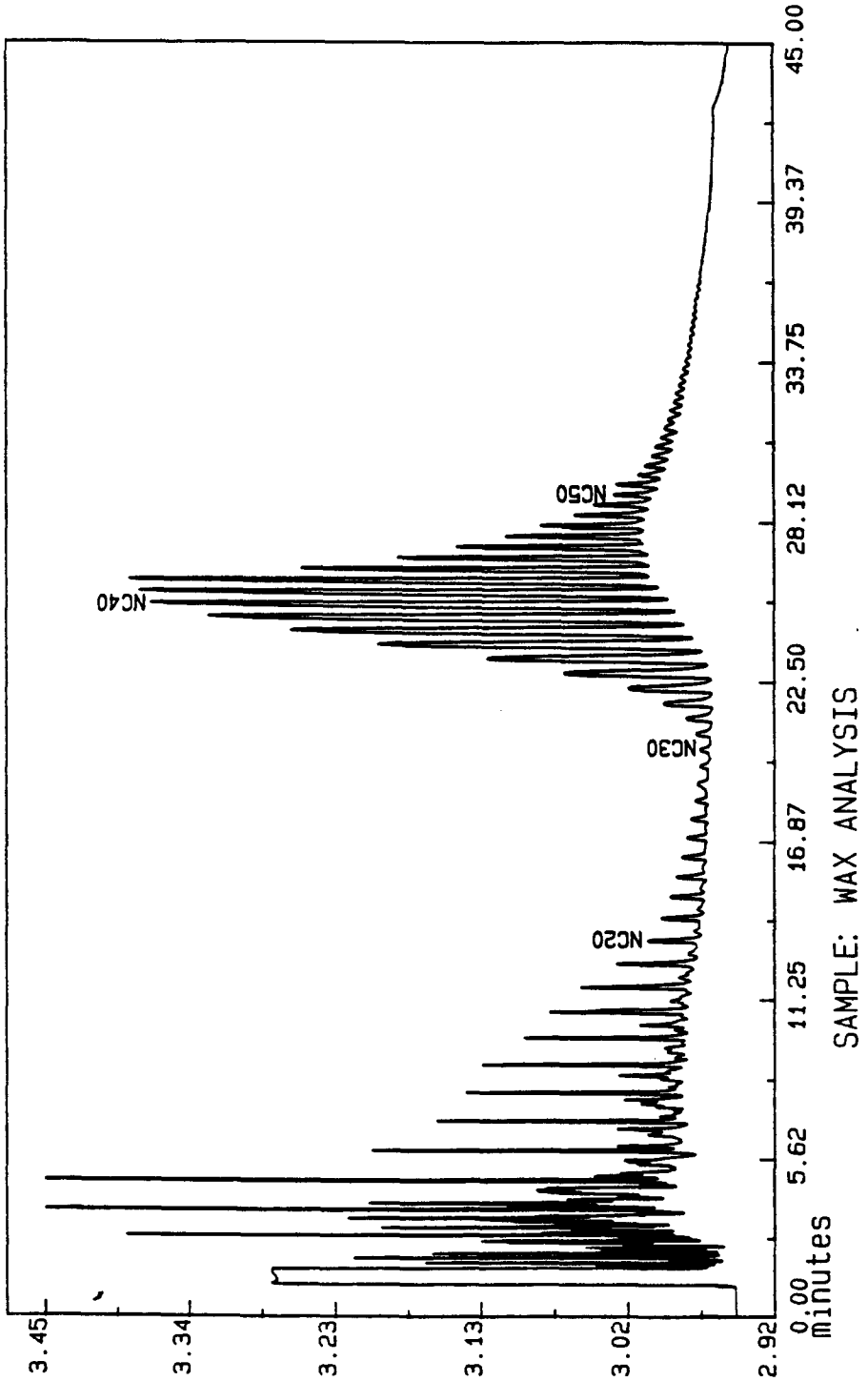
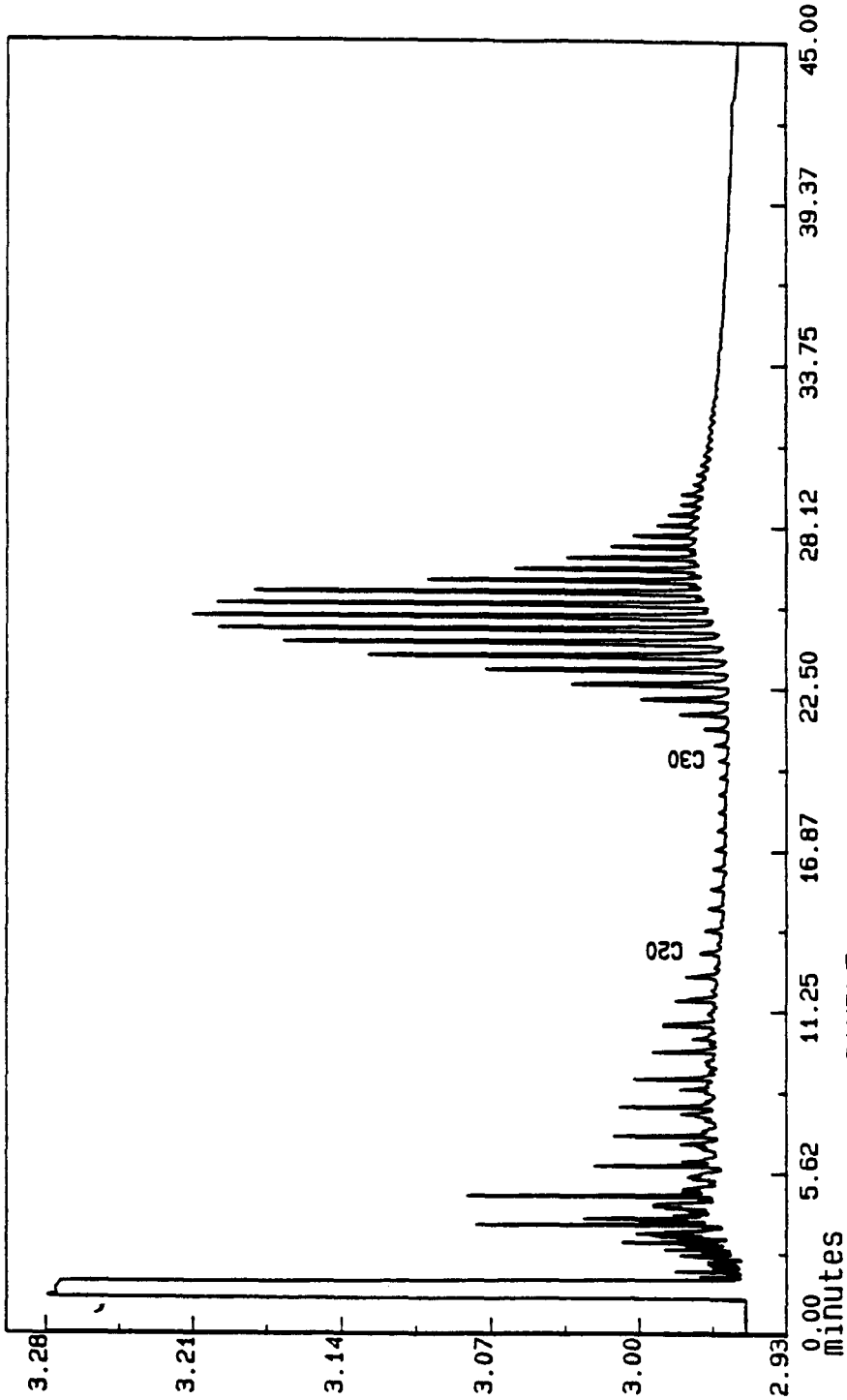
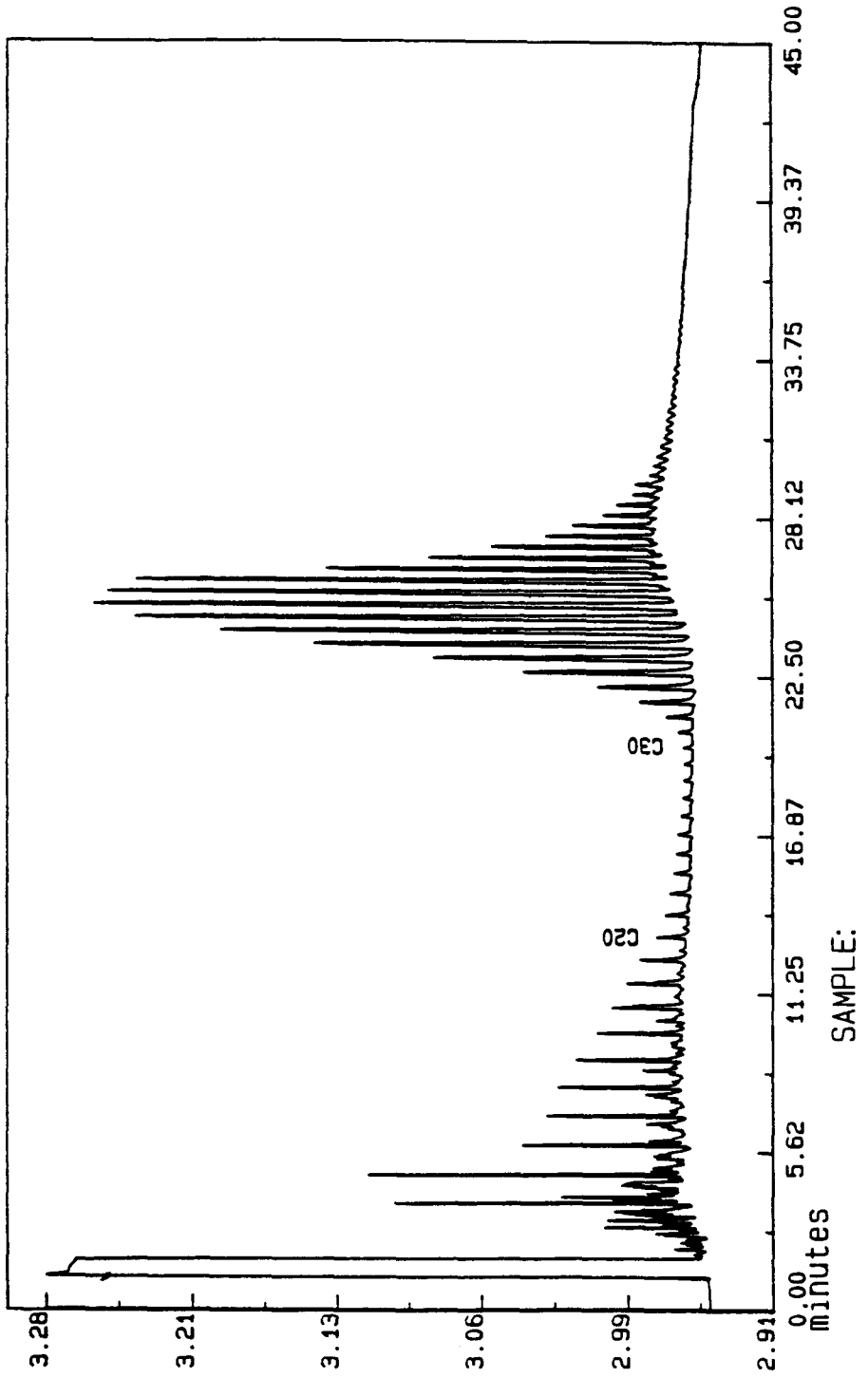
Hydrocarbon Profile - Bulk Wax Sample

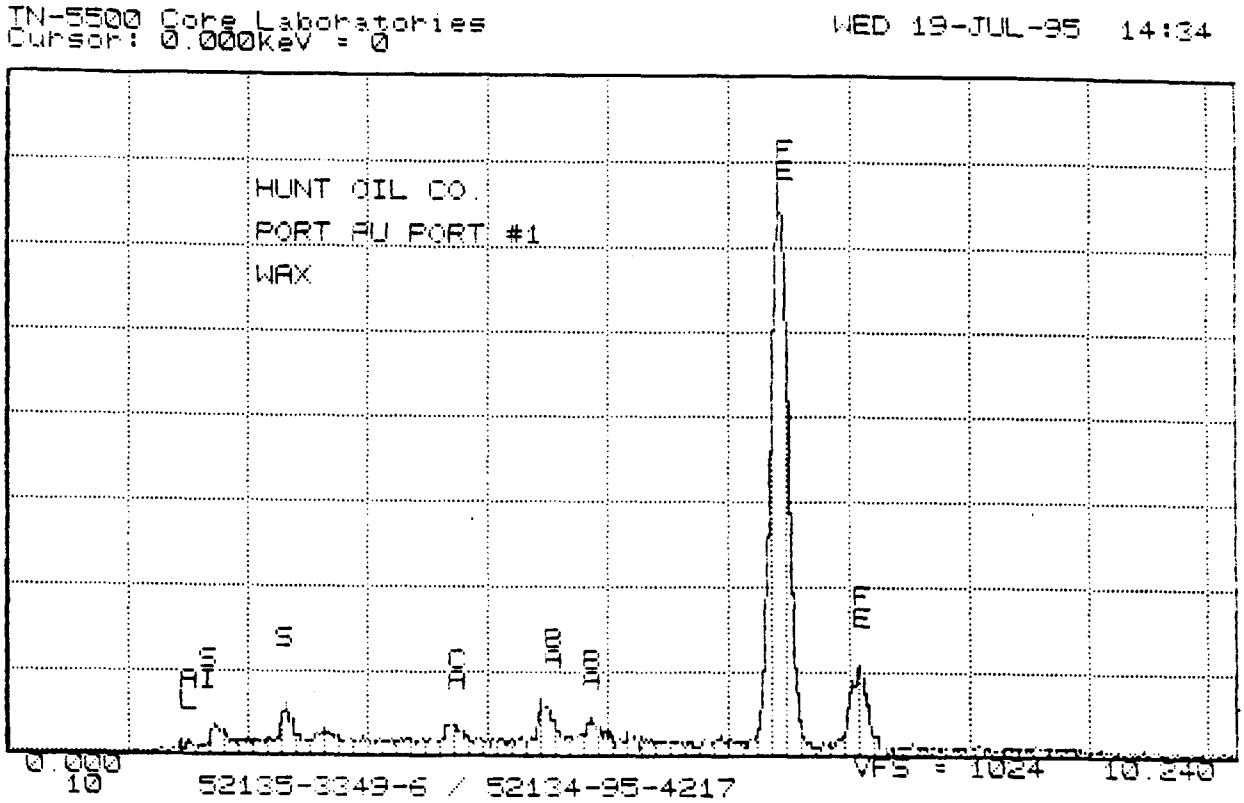


Hydrocarbon Profile - Wax Excluding Nodules



Hydrocarbon Profile - White Nodules

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FE
FE
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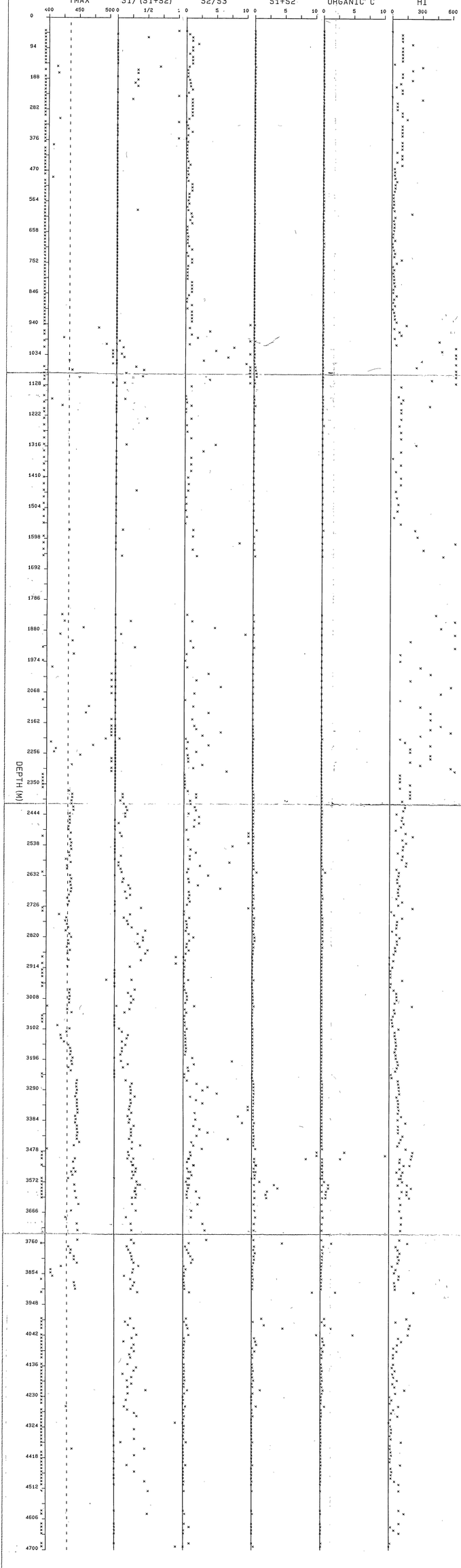
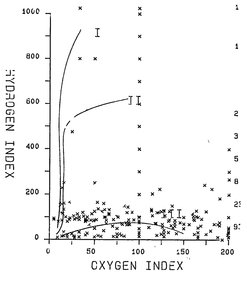
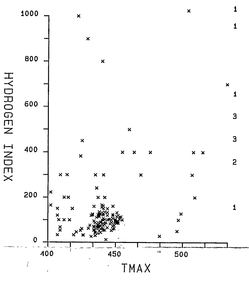
AI
S
CA
BA
BA
0.000
10
52135-3349-6 / 52134-95-4217
VFS = 1024
10.240

Final Well Report NHOC/PCP Port Au Port No.1
Appendix IV-2 Rock-Eval/Toc Log

Hunt PCP Port-Au-Port #1