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Final Well Report

CANADIAN IMPERIAL ET AL INDIAN HEAD #1

Prepared by

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• Appendices

- I. Geological Report on Canadian Imperial Venture Corp Indian Head #1 Harry's River Area by Kristina Giles, Three-D GeoConsultants Limited
- II. Wellsite Geologist Report (Core Logs)
- III. Geolograph and Gas Log
- IV. Legal Survey Plan by Yates and Woods Ltd.

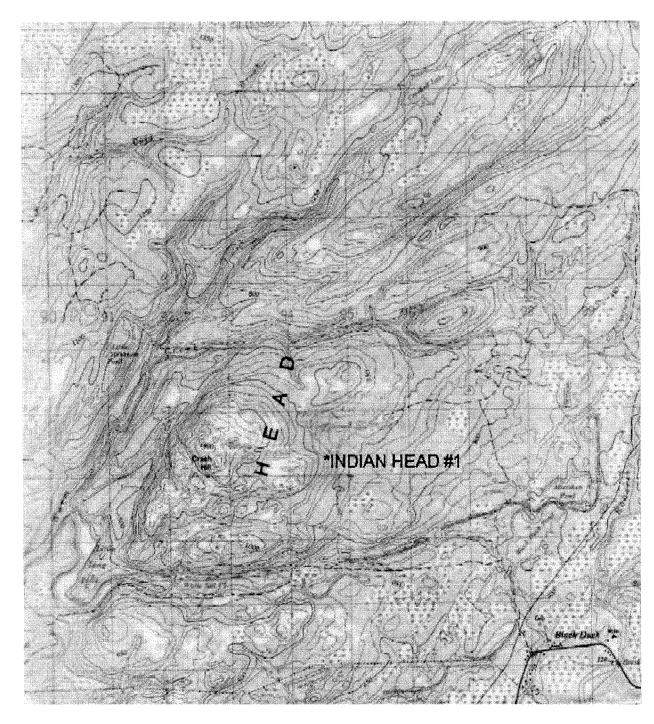
1. INTRODUCTION

1.1 Canadian Imperial et al Indian Head #1

The Indian Head #1 well was a rank wildcat to test for the presence of potentially hydrocarbon-bearing St. George's Group platformal carbonates beneath the metamorphic rocks of the Indian Head Complex. Lithoprobe Line 12, a Vibroseis strike line approximately 4 km to the South of the well, suggested that the Indian Head Complex is an overthrust basement klippe overlying imbricate slices of Cambro-Ordovician carbonate platform sediments. The play is roughly analogous to Port au Port #1 where approximately 1,700 m of granite basement is encountered in an imbricate slice overlying the productive carbonates of the St. George's Group.

Indian Head #1 was drilled using a modified mining rig. The well was continuously cored from the base of the glacial overburden at approximately 14 m KB to total depth of 804.6 m KB. It was drilled entirely in Indian Head Complex metamorphics and none of the presumed underlying sediments had been encountered when drilling was concluded at 804.6 m.

1.2 MAP



1.3 General Information

1.3.1 Well Name

Canadian Imperial Venture Corp. et al Indian Head #1

1.3.2 Short Form Well Name

CIVC Indian Head #1

1.3.3 Operator

Canadian Imperial Venture Corp.

Financial Participant: Contact Exploration Inc., Calgary, Alberta

1.3.4 Drilling Contractor

Lantech Drilling Services Inc., Dieppe, NB

1.3.5 Drill Rig

LDS – Hydro "50" - Longyear 50 skid mounted diamond continuous coring drilling rig equipped with a 185HP diesel engine fitted with a spark arrestor, hydrostatic drive, insulated exhaust, pre-torque and breakout tool, 40' derrick, hydraulic mud mixer, compartmentalized mud tank, Beam 435 mud pump and a 21,000 kPa BOP system.

1.3.6 Drilling Program Approval Number

2001-117-06

1.3.7 Authority to Drill a Well Number

2001-117-06-01

1.3.8 Well Location

The well site was located off a forest access road approximately 4,500 m NW of Black Duck (Highway 460 Stephenville to Trans Canada Highway).

Co-ordinates:

Lat.: N48° 36' 08.345"

Long: W58° 25' 34.764"

NAD (27)

N 5° 38.4' 011.84"

E 39.4' 845.06"

Survey System:

GPS and conventional land survey conducted by Yates and Woods

Limited of Corner Brook, NL.

1.4 <u>Difficulties and Delays</u>

Significant time was lost drilling the surface hole due to sloughing of unconsolidated glacial overburden material into the hole. This problem cost in the order of eight days and required a number of cement jobs and an extra conductor casing string to stabilize the surface hole.

Rig operations were suspended from December 17, 2001 until January 3rd, 2002 for the Christmas Season.

2.0 DRILLING OPERATIONS

2.1 Elevations

Natural ground level: 237.80 m above MSL

Kelly Bushing:

3.65 m above natural ground level

2.2 Total Depth

Drilled Depth:

804.6 m KB

Logged Depth:

N/A – Well was continuously cored. No wireline logs were run.

Plugged – Back Total Depth: Well was plugged – back to surface and abandoned.

2.3 Spud Date

1200 hrs (noon) December 5th, 2001

2.4 <u>Date Drilling Completed</u>

1930 hrs February 5th, 2002 (Note: Operations were suspended between December 17th, 2001 and January 3rd, 2002 for the Christmas holiday season.)

2.5 Rig Release Date

0600 hrs February 7th, 2002

2.6 Well Status

Abandoned. Well was temporarily suspended February 7th, 2002. Final abandonment program was conducted on June 28th, 2004.

2.7 <u>Hole Sizes and Depths</u>

311.15 mm to 8 m KB

139.7 mm to 28.9 m KB

122.6 mm to 244 m KB

96 mm to 804.6 m KB Total Depth

2.8 Bit Records

Notes:

- 1. Difficulties drilling the surface hole due to caving of glacial overburden required the use of a variety of bits, bit sizes and cement jobs until the 139.7 mm surface casing was set at 28.9 m KB. Bit details were not recorded in drilling reports.
- 2. The hole section from the surface casing shoe (at 28.9 m KB) to the intermediate casing point (247.1 m KB) was continuously cored using 95 mm HQ diamond coring bits. This section was reamed out using a 122.6 m PQ diamond coring bit.
- 3. The final hole section from the intermediate casing shoe (at 243.7 m KB) was continuously cored using 95 mm HQ coring bits.

Bit Record: Intermediate Hole Section (Note 2 above)

Bit No.	Diameter	Maker	Туре	IADC code	Serial Number	Depths (m)
1	96 mm HQ	Fordia	Diamond Coring	9	20334-03	30.8 – 143
2	96 mm HQ	Fordia	Diamond Coring	9	20334-06	143 – 247
1	122.6 mm PQ	Fordia	Ream	9	20239-01	24 – 70
2	122.6 mm PQ	Fordia	Ream	9	20332-01	70 – 114
3	122.6 mm PQ	Fordia	Ream	9	0239-02	114 – 138
4	122.6 mm PQ	Fordia	Ream	9	720236-0	138 – 244

Bit Record: Final Hole Section (Note 3 above)

Bit No.	Diameter	Maker	Type	IADC code	Serial Number	Depths (m)
1	96 mm HQ	Fordia	Diamond Coring	9	20334-01	250.6 – 267
2	96 mm HQ	Fordia	Diamond Coring	9	20334-05	267 – 367.7
3	96 mm HQ	Fordia	Diamond Coring	9	20334-05	367.7 – 389.7
4	96 mm HQ	Fordia	Diamond Coring	9	20619-02	389.7 – 469.6
5	96 mm HQ	Fordia	Diamond Coring	9	20619-03	469.6 – 546.6
6	96 mm HQ	Fordia	Diamond Coring	9	20123-01	546.6 – 577.6
7	96 mm HQ	Fordia	Diamond Coring	9	N/A	577.6 – 676.6
8	96 mm HQ	Fordia	Diamond Coring	9	20619-04	676.6 – 746.6
9	96 mm HQ	Fordia	Diamond Coring	9	20333-02	746.6 – 804.6

2.9 Casing and Cementing Record

- a) Conductor 8 m of 244.5 mm conductor barrel was cemented in place with 1.4 m³ of construction cement + 2% calcium chloride. Cement density 1900 kg/m³ was displaced with 0.2 m³ of water with good cement returns to surface.
- b) Surface Casing 139.7 m PW casing was run to 28.9 m KB and cemented with $1.2~{\rm m}^3$ of construction cement + 2% Calcium Chloride. Cement density 1200 kg/m³, good returns to surface.
- c) Intermediate Casing 114.3 mm HW Casing was run to 243.75 m (81 points) and cemented with 1.0 $\rm m^3$ of class A + 12 litres CD-31L + -30% F1-63 + 1% R-6N mixed at 1879 kg/m³ and displaced with 2.0 $\rm m^3$ of fresh water.

2.10 Sidetracked Hole

There was no sidetracked hole.

2.11 **Drilling Fluid**

The surface hole (to 30 m) drilled using fresh water. The rest of the hole was drilled using a fresh water based polymer mud with the following characteristics:

30 m to 243.7 m:

Density:

 $100 \text{ to } 1050 \text{ kg/m}^3$

Viscosity:

28 to 40 sec/L

243.7 m to 804.6 m:

Density:

 $1010 \text{ to } 1105 \text{ kg/m}^3$

Viscosity:

30 to 55 sec/L

2.12 Fluid Disposal

No Fluids were disposed of downhole.

2.13 Fishing Operations

There were no fishing operations and no fish were left in the hole.

2.14 Well Kicks

There were no well kicks.

2.15 Formation Leak-off Tests

Test at 250 m KB (114.3 casing shoe at 243 KB) with fresh water – held steady at 3,000 kpa (Formation gradient of 22 kpa/m.)

2.16 Time Distribution

To be plotted

2.17 Deviation Plot

Only single shot surveys were done so no deviation plot could be computed. From surface to 661.6 m, the hole inclination was between 1° and 2°. From 691.6° to Total Depth at 804.6 m, the hole inclination was between 2.5° and 2.75°.

2.18 Abandoned / Suspension Plugs

Plug #1 804.6 m – 744.6 m:

0.64 m³ neat Portland cement displaced with 5.7 m³ of drilling

mud.

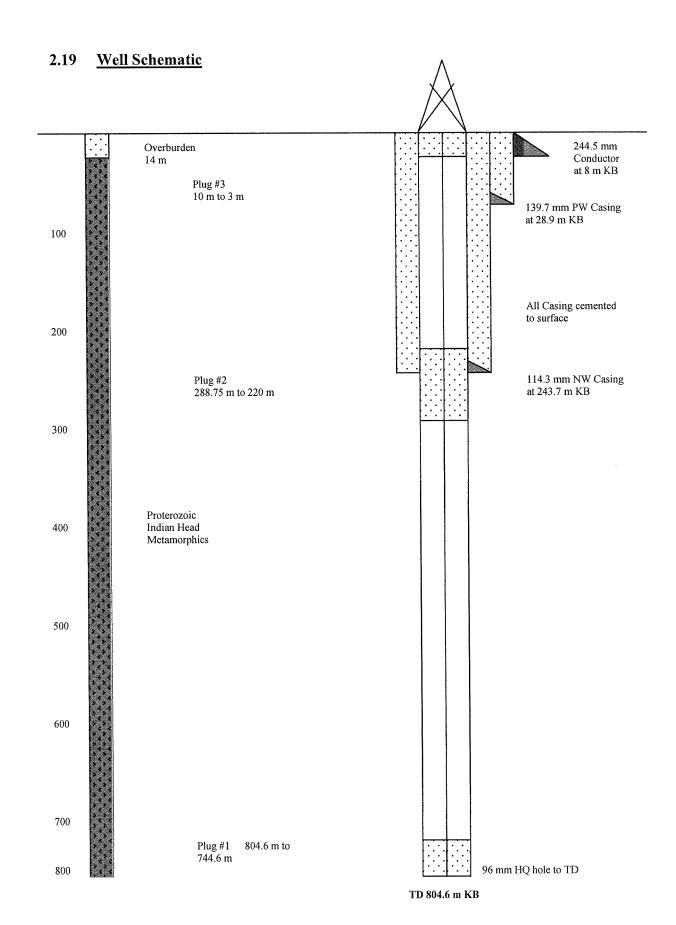
Plug #2 288.75 m - 220 m:

0.64 m³ neat Portland cement displaced with 2.14 m³ of drilling

mud. Top of plug tagged at 220 m.

Plug #3 10 m - 3 m:

Neat Portland cement plus 3% volume clay.



2.20 Fluid Samples

No fluid samples were taken.

2.21 Composite Well Record

See Section 2.19

3. GEOLOGY

3.1 **Drill Cuttings**

The well was drilled using a modified mining diamond coring rig. No cuttings are produced by this method of drilling.

3.2 Cores

The well was continuously cored from the Conductor (at 9 m) to Total Depth (804.6 m). Core Recovery was in excess of 90%. The cores are temporarily stored at the Canadian Imperial Garden Hill site.

3.3 <u>Lithology</u>

Please see Appendix I

3.4 Stratigraphic Column

Please see Appendix II. Except for the glacial overburden down to 14 m DD, the well was drilled entirely in the Proterozoic Indian Head metamorphic complex.

3.5 Biostratigraphic Data

N/A

4. WELL EVALUATION

4.1 <u>Downhole Logs</u>

No logs were run. Based on an examination of the cores, the section penetrated by the well was seen to be entirely non-prospective for hydrocarbons.

4.2 Other Logs

N/A

4.3 Synthetic Seismograms

None

4.4 <u>Vertical Seismic Profiles</u>

None

4.5 <u>Velocity Surveys</u>

None

4.6 Formation Stimulation

None

4.7 Formation Flow Tests

None

5. OTHER

5.1 Mud Logger's Report

Please see Appendix III

5.2 Directional and Deviation Survey Report

None

5.3 Final Legal Survey Plan

Please see Appendix IV

5.4 Core Photos

None

5.5 Core Analysis Report

None

5.6 Fluid Analysis Report(s)

None

5.7 Oil, Gas Water Analysis Report(s)

None

5.8 Geochemical Report

None

5.9 Biostratigraphy Report

None

5.10 Petrological Report

None

5.11 Palynological Report

None

5.12 Paleontological Report

None

Geological Report

on

Canadian Imperial Venture Corp Indian Head #1 Harry's River Area

Well Reached Total Depth on Feb 4, 2002 @ 18:00 (Suspended)

for

Canadian Imperial Venture Corp

Prepared For: George Langdon

Canadian Imperial Venture Corp

Prepared By: Kristina Giles

Three-D GeoConsultants Limited

Kristina Giles

0.00 to 14.00 (14.00)	Ovbdn 0 to 14: Overburden
14.00 to 67.90 (53.90)	Metamorphic 14 to 67.9: Indian Head Complex, medium grained quartzo felpspathic gneiss with foliation at 80 degrees to core axis, fractured, magnetite
67.90 to 68.40 (0.50)	Metamorphic 67.9 to 68.4: Indian Head Complex, as above but note gray aphanitic possible igneous intrusion, vertical contact, calcareous veins
68.40 to 90.80 (22.40)	Metamorphic 68.4 to 90.8: Indian Head Complex, medium to coarse grained quartzo feldspathic gneiss with foliation at 80 degrees to core axis, occasional grayish black aphanitic possible igneous features up to 0.30m thick (may also be mafic/ felsic mineral differentiation where no intrusive contacts visible)
90.80 to 112.80 (22.00)	Metamorphic 90.8 to 112.8: Indian Head Complex, similar to above but increasing indication of recrystallization with coarse fragments scattered throughout, generally fine grained with medium to coarse grained layers on medium scale, increase in feldspar content and felsic/ mafic differentiation, foliation may show augen textures, magnetite
112.80 to 113.30 (0.50)	Metamorphic 112.8 to 113.3: Indian Head Complex, grayish black aphanitic anorthosite, possible ancient igneous intrusion, horizontal contacts, xenolith visible
113.30 to 143.40 (30.10)	Metamorphic 113.3 to 143.4: Indian Head Complex, quartzo feldspathic gneiss as above gneissic zone but increased differentiation of felsics and mafics, foliation at 60 degrees to core axis, slight recrystallization and overprinting of gneissic fabric lessens below 132.8m
143.40 to 144.80 (1.40)	Metamorphic 143.4 to 144.8: Indian Head Complex, medium to coarse grained gray anorthosite recrystallized but minimal alteration, generally non-foliated
(18.20)	Metamorphic 144.8 to 163: Indian Head Complex, quartzo felspathic gneiss, increased quartz, plagioclase and mafic layers on 1 to 0.50m scale, maximum 2m thick zone, grades into a felsic/ mafic differentiated zone, horizontal bands on cm scale, magnetite throughout
163.00 to 172.40 (9.40)	Metamorphic 163 to 172.4: Indian Head Complex, as above but plagioclase content increasing overall, occasional sub vertical fractures, foliation and banding variable from horizontal to 45 degrees to core axis, abundant thin quartz infilled fractures, note 3cm thick quartz vein at 45 degrees to core axis at 153.9m, note fractures at 45 degrees to core axis.

degrees to core axis

Storage Units:

172.40 to (0.5	Metamorphic 172.4 to 172.9: Indian Head Complex, as above with alteration zone (chlorite epidote etc.)
172.90 to (20.	 Metamorphic 172.9 to 193: Indian Head Complex, as above without the alteration
193.00 to (13.3	Metamorphic 193 to 206.3: Indian Head Complex, possible ancient brecciated zone, highly recrystallized with very coarse grained subrounded clasts, possible serpentinized sections, greenish gray clay alteration and minor red clay altern in thin cm scale bands, recommend another look at this section
206.30 to (10.	Metamorphic 206.3 to 217: Indian Head Complex, quartzo felspathic gneiss with increase in feldspar content, thicker differentiated layers up to 1m thick, felsic zones are crystalline and may be overprinted, otherwise abundant foliation and metamorphic structures visible throughout
217.00 to (28.	Metamorphic 217 to 245: Indian Head Complex, quartzo feldspathic gneiss with increased mafic content (magnetite rich), banded with felsic and mafic layers, recrystallized and foliated gneissic zones layered on 2m scale
245.00 to (1.9	Metamorphic 245 to 246.9: Indian Head Complex, gray aphanitic anorthosite(?), possible intrusive igneous feature, occasional crystalline bands up to 2cm thick
246.90 to (30.	Metamorphic 246.9 to 277: Indian Head Complex, quartzo feldspathic gneiss with increased plagioclase content (magnetite rich), increased foliation at 60 degrees to core axis (bands up to 1cm thick), differential felsic/ mafic banding on 1m scale, mafic (and magnetite) content increases toward base of zone
277.00 to (18.	Metamorphic 277 to 295.8: Indian Head Complex, as above with increased plagioclase, quartz and mafic content, horizontal layering on 1cm scale, medium grained recrystallized alteration zones (fine grained overall) on 10 to 20cm scale to foliated gneissic zones layered on 2m scale
295.80 to (16.	Metamorphic 295.8 to 312: Indian Head Complex, as above with increasing feldspar content, possible hematite alteration, crystalline zones less abundant, foliation ~ horizontal but increases to 70 degrees to core axis
312.00 to (40.	Metamorphic 312 to 352: Indian Head Complex, quartzo feldspathic gneiss with layers of medium grained feldspar rich zones on 1m scale, abundant thin calcite infilled fractures variable from sub vertical to 60 degrees to core axis increasing down zone, note 5mm thick calcite infilled fractures at 60 degrees to core axis at 342.6m and 342.8m

5mm thick calcite infilled fractures at 60 degrees to core axis at 342.6m and 342.8m

352.00 to 366.50 (14.50)	Metamorphic 352 to 366.5: Indian Head Complex, quartzo felspathic but foliation highly overprinted and crystalline, abundant calcareous infilled fractures
366.50 to 443.00 (76.50)	Metamorphic 366.5 to 443: Indian Head Complex, quartzo felspathic gneiss, increased differentiation and banding of felsics and mafics on 1m scale, foliation variable from ~ horizontal to 45 degrees to core axis
443.00 to 452.00 (9.00)	Metamorphic 443 to 452: Indian Head Complex, as above with increased plagioclase content, foliation more consistently at 45 degrees to core axis
452.00 to 467.90 (15.90)	Metamorphic 452 to 467.9: Indian Head Complex, quartzo feldspathic, gneissic foliation almost completely masked by recrystallization, no differential banding
467.90 to 486.80 (18.90)	Metamorphic 467.9 to 486.8: Indian Head Complex, quartzo felspathic gneiss, still some overprinting of foliation by recrystallization, occasional differentiated felsic/ mafic banding, occasional sub vertical fractures, increasing plagioclase content down zone
486.80 to 489.20 (2.40)	Metamorphic 486.8 to 489.2: Indian Head Complex, highly recrystallized anorthosite, possible ancient intrusive igneous feature (dyke?)
489.30 to 493.00 (3.70)	Metamorphic 489.3 to 493: Indian Head Complex, quartzo felspathic gneiss, highly recrystallized
493.00 to 495.80 (2.80)	Metamorphic 493 to 495.8: Indian Head Complex, gray aphanitic, possible fine faint horizontal laminations (may be dur to coring) and vesicular indicating a volcanic nature, also possible plagioclase phenocrysts, abundant calcite infilled fractures, upper contact at 45 degrees to core axis
495.80 to 497.00 (1.20)	Metamorphic 495.8 to 497: Indian Head Complex, very fine grained feldspar rich recrystallized zone, abundant calcite infilled fractures
497.00 to 502.70 (5.70)	Metamorphic 497 to 502.7: Indian Head Complex, gray aphanitic, possible ancient intrusive igneous feature to 498m with gneiss interlayered below
502.70 to 523.50 (20.80)	Metamorphic 502.7 to 523.5: Indian Head Complex, quartzo feldspathic gneiss, horizontal foliation, crystalline zones layered with gneissic zones on 2m scale, feldspar content variable, mafics may contain chromite (note feature at 514.6m)

523.50	to	534.30
(10	5.8	(0)

Metamorphic

523.5 to 534.3: Indian Head Complex, anorthostic gneiss, horizontal foliation, still fractures at 45 degrees to core axis and occasional calcite infilled fractures, contacts at 45 degrees to core axis, fine faint horizontal laminations, note highly crystalline zone at 528.5m as feldspar content increases, layering on 1m scale (feldspar -rich to plagioclase rich zones)

534.60 to 536.60 (2.00)

Metamorphic

534.6 to 536.6: Indian Head Complex, as above with increased alteration mineralization, highly crystalline zone at 535.6m, zones on 0.5 to 1m scale, calcareous, (SAMPLE IH1-01 at 535.6m)

536.60 to 538.90 (2.30)

Metamorphic

536.6 to 538.9: Indian Head Complex, grayish white fine grained highly calcareous crystalline quartzite, minimal differentiation and banding, generally massive, very fine grained from 536.9 to 537.3m and from 538.4m, (SECTION SAMPLED, IH1-02 at 536.2m, IH1-03 at 536.8m, IH1-04 at 537.5m, IH1-05 at 538.3m)

538.90 to 541.20 (2.30)

Metamorphic

538.9 to 541.2m: Indian Head Complex, highly altered zone (chlorite epidote etc.), (SECTION SAMPLED, IH1-06 at 538.9m, IH1-07 at 539.5m, IH1-08 at 539.7m, IH1-09 @540.3m, IH1-10 at 540.4m)

541.20 to 548.50 (7.30)

Metamorphic

541.2 to 548.5: Indian Head Complex, very fine grained anorthosite and gneiss, layered felsic and mafic bands, interlayered altered crystalline bands

548.50 to 556.40 (7.90)

Metamorphic

548.5 to 556.4: Indian Head Complex, layered very fine grained anorthosite and gneiss with less alteration, anorthosite sections are faintly banded on mm to cm scale as above, contacts at 45 degrees to core axis, possible ancient intrusive igneous feature, note chlorite epidote infilled fractures at 553m

556.40 to 556.80 (0.40)

Metamorphic

556.4 to 556.8: Indian Head Complex, gray anorthosite, possible remnant igneous feature, calcite infilled fractures oriented at 45 degrees to core axis like upper and lower contacts, fractures dominantly vertical but occasionally random, fine faint horizontal laminations, note similar to sections above

556.80 to 574.70 (17.90)

Metamorphic

556.8 to 574.7: Indian Head Complex, anorthosite and gneiss, differentiated felsic/mafic gneissic and crystalline zones grading into highly felspathic zones with possible hematite alteration, foliation increases to 45 degrees to core axis, 1m plagioclase rich zones in 6m intervals, calcite infilled fractures, minimal alteration, magnetite throughout

574.70 to 577.00 (2.30)

Metamorphic

574.7 to 577: Indian Head Complex, as above with increased alteration (chlorite, epidote) in gneissic zone, magnetite

Storage Units:

Metamorphic

577 to 595.6: Indian Head Complex, anorthosite and gneiss, differentiated felsic/ mafic gneissic and crystalline zones grading into highly felspathic zones with possible hematite alteration, foliation increases to 45 degrees to core axis, 1m plagioclase rich zones in 6m intervals, calcite infilled fractures, minimal alteration, magnetite throughout

595.60 to 601.10 (5.50)

Metamorphic

595.6 to 601.1: Indian Head Complex, grayish black to reddish pink fine grained gneiss, differentiated felsic/ mafic layering on 1m scale, foliation variable from 80 to 60 degrees to core axis, magnetite rich, calcareous, occasional sub vertical mm scale fractures, note chlorite and epidote alteration zone from 598.3 to 598.6m

601.10 to 611.00 (9.90)

Metamorphic

601.1 to 611: Indian Head Complex, fine grained grayish black anorthosite, occasional foliation visible similar to above section, magnetite rich, calcareous, rare sub vertical mm scale fractures

611.00 to 612.00 (1.00)

Metamorphic

611 to 612: Indian Head Complex, fine grained grayish black anorthosite, sub vertical mm scale fractures upper 0.5m, calcareous, magnetite rich

612.00 to 614.90 (2.90)

Metamorphic

612 to 614.9: Indian Head Complex, layered felsic/ mafic zones on 0.02 to 0.04m scale at 50 degrees to core axis, magnetite rich, calcareous, note basal 0.20m medium to coarse grained crystalline

614.90 to 625.50 (10.60)

Metamorphic

614.9 to 625.5: Indian Head Complex, very fine grained anorthosite, grayish black mafic layers with occasional reddish pink felsic zones on cm scale with maximum 15cm thick bands, magnetite rich, calcareous, rare medium to coarse grained 0.02m scale crystalline layers overprinting gneissic texture, fractures at 45 degrees as above, note chlorite epidote alteration from 616.6 to 617.2m, note the next 27m may have abundant ancient intrusive igneous features

625.50 to 628.50

Metamorphic

625.5 to 628.5: Indian Head Complex, as above, banded at 60 degrees to core axis with cm scale plagioclase and calcite rich layers with alteration to chlorite and epidote, calcite infilled fractures upper 0.40m, magnetite, calcareous

628.50 to 633.60 (5.10)

(3.00)

Metamorphic

628.5 to 633.6: Indian Head Complex, as above, layered with felsic and possibly reddish pink hematite altered on 1.5: 0.40m scale, calcite infilled fractures up to 2mm thick at 45 degrees to core axis, magnetite, calcareous

633.60 to 637.60 (4.00)

Metamorphic

633.6 to 637.6: Indian Head Complex, as above with minimal layering of plagioclase and calcite rich spotty bands, increased alteration zones on 1m scale, occasional calcite infilled fractures, increase magnetite and mafic content, decrd feldspar content, calcareous

Storage Units:

711.80 to 719.00

(7.20)

Metamorphic

711.8 to 719: Indian Head Complex, very fine grained to aphanitic grayish black,

on cm scale from 716m, feldspar content increases toward base

possible ancient igneous feature (dyke?), differential plagioclase and mafic banding

719.00 to 729 (10.60)	9.60	Metamorphic 719 to 729.6: Indian Head Complex, quartzo feldspathic gneiss, gneissic foliation at 60 to 45 degrees to core axis with occasional differential banding, coarsening to medium grained more crystalline zones with faint gneissic foliation (possible overprinting)
729.60 to 748 (18.40)	3.00	Metamorphic 729.6 to 748: Indian Head Complex, as above with increased frequency and thickness of differential felsic and mafic zones (10s of cm rather than cm scale banding), note felsic zones may have hematite alteration from 746 to 748m
748.00 to 755 (7.70)	5.70	Metamorphic 748 to 755.7: Indian Head Complex, anorthositic crystalline (overprinting) and gneissic zones, plagioclase shows some secondary alteration mineralization to chlorite epidote, possible ancient mafic igneous feature (dyke?)
755.70 to 76 ² (5.30)	1.00	Metamorphic 755.7 to 761: Indian Head Complex, as above layered on 3m scale with very fine grained feldspathic zones with rare foliation
761.00 to 78 ⁻ (20.00)	1.00	Metamorphic 761 to 781: Indian Head Complex, as above up to 1m thick zones layered with 2m felspathic zones, mafic content decreasing, note chlorite epidote infilled sub vert fractures from 778.5 to 781m
781.00 to 793 (12.00)	3.00	Metamorphic 781 to 793: Indian Head Complex, similar to above but with interlayred gneissic and crystalline textures at 60 to 45 degrees to core axis on 1m scale with feldspathic zones
793.00 to 80- (11.00)	4.00	Metamorphic 793 to 804 TOTAL DEPTH: Indian Head Complex, quartzo feldspathic gneiss with decreasing feldspar content and minimal banding, foliation at 70 to 50 degrees to core axis, plagioclase content increasing toward base of zone

Operator:	Canadian Imperial Venture Corp									
Well Name:			al Venture Co							
Location:		-	Harry's River A	-	ii iiodd wi					
			2001-117-06-0							
	2001-117-06-01 Exploration									
			Exploration							
Province / State:				1						
Country:			Canada							
Elevations-										
	b:		Ground	:	m					
Cut(-) / Fill(+):		Kelly Bushing							
K.B. to Ground	d:	6.1 m	Casing Flange							
Total Depth-										
Measurement	Туре	Measure	d Depth	True Ve	rtical Depth					
Drillers TD (T		π	1		m					
Drillers TD (Strap		rr	1	8	04 m (Susp	endel				
Loggers Ti		п	1		m '/	26 1/02)				
Surface Co - Ordinates										
Well Type: Stra		tude:		Latitude	:					
N / S Co - Ordinates:5										
E / W Co - Ordinates:0	394 845.06									
Bottom Hole Co - Ordin	nates-									
	Longi	tude:		Latitude	H					
N / S Co - Ordinates:	100									
E / W Co - Ordinates:										
Drilling Fluid Summary			Casing Sum	mary-						
Fluid Type	From	To	Type	Hole Size	Casing Size	Landed At				
		.	Conductor	mm	mm	30 m				
		- 11	Surface	mm	mm	225 m				
Well Summary—										
Spud Date:	Dec 4, 20	01 (Contractor:		Lantech Drillin	g Services				
TD Date:	Feb 4, 20	02 Rig Rel	lease Date:		attended (Company)					
Work Schedule-										
Contractor		Geologi	st Lo	g Interval	Dates L	ogged				
Three-D GeoConsultants	A STATE OF THE PARTY OF THE PAR	Kristina G	iles 0	m - 30 m m - 804 m	Dec 5, 2001 - I	Dec 21, 200				
Three-D GeoConsultant	s Ltd	Kristina G	1105 30	111 = 004 111	Jan 3, 2002 -	ren 3, 2002				

Legend

10001100	(808)	(8)	100	(A)	Pebble	100	Anhydrite - primary
	Marie I		MR.		0	100	Anhydrite - secondary
			18	8	0	128	Argillite
		(B)	- 10	-	-	KEN	Barite
	ш		707	台	(E)	阃	Bentonite
E4 W 3700	[Mag]		1	(4)	(1)	-	Breccia
1000		(1)	-	-	_		Calcareous
0000		-					Cement
a 0 6	(OD)		15%	(4)	(%)		Conglomerate - mixed
ABA	A.A.		100	100	-		Conglomerate - dark chert
BBB	(50)		(63				Conglomerate - light chert
000	2505		-				Conglomerate - varicolored cher
A A .	[A.A.]		A	(A)	(A)		Chert - dark
AAA	Als	(A)	[A]	(A)	(A)	A	Chert - fossiliferous
A A A		(A)	a	(A)	(A)	Δ	Chert - light
		(0)	To .	(23)	(2)		Chert - tripolitic
	AD	(AA)	10	(2)	(0)		Chert - varicolored
	100		W			8	Claystone - colored
5-6-688938	5700		8	4	0	8	Claystone - gray
2000000000	-		W				Coal
	9000		be				Dolomite
The same of the sa			W		_		Ferruginous
		(D)	国	(4)	(1)	H	Feldapar
100000	(Same)	600	BK.	6		100	Gypsum
SVEVE EN	196998		10				Igneous - acidic
0.7210 E/A	HOUSE					-	Igneous - basic
	DESIGN		1/4	8	0		Igneous - metamorphic
	(MIC)		W	(0)	(4)	23	Limestone - grain supported
Copyright Copyright	Bests		That	(0)	0	展	Limestone - mud supported
STOP STOCKED REALISE	THE STATE OF THE S	(Mg)		100	- 10		Manganese
15057100010	12250		ME	(10)	@	圆	Maristone - calcareous
W 200 W 30 W 3	(0000)		188	(6)	@	圆	Maristone - dolomitic
0 00 00	00	(00)	M	(**)	00	-	Phosphate
98 99 9		P	-			P	Pyrite
		(1)	Ø	(A)	(1)	[2]	Quartz
	83391	(8)	99	(4)	0	m	Satt
	1999		118"	1 6	0	-	Shale - black
	1000		围	60	6	123	Shale - medium gray
	-	light gray		1			Shale - dark gray
TOTAL CONTRACTOR		light to m		av B	00000		Shale - medium to dark gray
	-	light to di			H		Shale - dark colored
		light colo		-	NAME OF THE OWNER, OWNE	S. C.	Shale - light to medium colored
		light to di		d			Shale - medium to dark colored
	CHARG -	The se Co	M CDION	68	0	1 18	Shale - medium colored
	1000		-	-			Siderite
	(200		US	(3)	(3)	[2]	Sandatone
DOMESTICAL STREET	1000		- ZV	1 60		100	Siltstone
	7500		0	1 6	0	net	Till - glacial
	SERVICE SERVIC		W	-		100	Volcanic (Tuff)
MILES AND STATE OF	10000		40	1 2	-	50	Welded Volcanic (Tuff)

		Misc	ellaneous Gra	ains	
(8)	Biotite	*	Mineral crystal	88	Orthoclase
100	Glauconite		Mineral - dark	图	Plagioclase
0	Mica flakes	8	Muscovite	0	Sand grain

	Textures				
C	Chalky Cryptocrystalline	9	Earthy	тж	Microcrystalline
CX	Cryptocrystalline	L	Lithographic	1/	Slickenside

	Acces	sori	es
101	Anhydritic	i.G	Gibbsitic
腊	Argillaceous	11	filitic
0	Baritic	ΞK	Kaolinitic
B	Bentonitic	(2)	Lithic Fragment
v	Bituminous	330	Marly - calcareous
離	Calcareous	281	Marty - dolomitic
4	Carbonaceous	(E)(y)	Micromicaceous
4	Cherty - dark	E4L	Mixed layer clayey
/F	Cherty - fossiliferous	ĐM.	Montmorillonitic
AL.	Cherty - light	00	Phosphate pellets
o ^p	Cherty - tripolitic	P	Pyritic
40	Cherty - varicolored	88	Salt casts
0	Chloritic	X 0	Sandy
300	Clayey		Sideritic
	Dolomitic	A	Siliceous
0	Ferruginous staining	88	Silty
5	Fractures	270	Stylolitic
100	Glauconitic		Tuffaceous
	Gypsiferous	12	Zeolitic

1	Aggregate grains	*	Euryamphipora
0	Algae - laminations	99	Foreminifera.
(m)	Algae - non descript	F	Fossil
(M)	Algae - ootoid	0	Fragmental
OK.	Algae - skeletal	4	Gastropod
ж	Amphipora	7	Graptolite
TD:	Belemnite	0	Hydrozoa
0	Bioclastic	97	Intraclast
0	Brachiopod	0	Mollusc
T	Bryozoa	9	Oncolite
0	Calciphaera	P	Oolite
6	Cephalopod	0	Ostracod
020	Chaetetes	10	Pelecypod
0	Coated grain	ø	Pellet
-	Conodont	10:	Pisolite
D	Coral	0	Plant Remains
8	Coral - branching	₹	Scaphopod
雕	Coral - head	T	Spicule
	Coral - colonial	9	Sponge
(3)	Coral - solitary	333	Stromatoporoid
0	Crinoid	0	Stromatoporoid - bulbour
@	Distom	(Stromatoporoid - massive
0	Echnoid	平平	Stromatoporoid - tabular
-	Echnoid - spine	-11	Tentaculites
DI	Fish Remains	6	Trilobite

Matrix				
100	Argillaceous	260	Mari - dolomitic	
363	Bentonite	343	Micrite	
T.	Bituminous	240	Mixed Clay	
3	Clay	242	Montmoniionite	
(2)	Chlorite	963	Sand	
500	Gibbsite	380	Silt	
213	Illite	392	Sparry Calcite	
30	Kaolinite	[2]	Zeolite	
302	Mari - calcareous			

	Porosity Type Track		
6	Earthy - low permeability - crystals / grains less than 1 / 16 mm		
•	Fenestral - voids from gas bubbles - shrinkage cracks - birdseye texture		
F	Fracture		
X	Intercrystalline - Interfragmental - Intergranular		
Q	Interpolitic - Interpelletoidal		
الد	Moldic		
0	Organic - Bridged - Intrafossil		
P	Pinpoint - voids less than 1/16 mm		
V	Vuggy - voids greater than 1 / 16 mm		

Oil Show Track		
	Even staining (75 - 100% of the rock is stained) - fluoresces in solvent	
0	Spotted staining (50 - 75% of the rock is stained) - fluoresces in solvent	
•	Spotted staining (25 - 50% of the rock is stained) - fluoresces in solvent	
0	Spotted staining (1 - 25% of the rock is stained) - fluoresces in solvent	
0	Questionable oil staining - No fluorescents in solvent	
D	Dead oil staining - asphaltic - bitumen - pyrobitumen etc.	
F	Fluoresces - no visible oil staining	

	Diagenesis Track		
122	Calcification - Calichified		
	Dolomitization		
48	Diagenetically mottled		
1	Fracturing		
0	Leaching		
0	Metasomatism - Replacement - Allotropic recrystallization - Inversion - Transformation		
Pd	Pressure Deformation		
Rx	Recrystallization - Strain recrystallization - Grain growth		
A	Silicification		
9	Solution cavity filled - Geopetal structure		
776	Stylolitic		
W	Weathering Degree of Diagenesis is in (%) percent. ? Indicates questionable interpretation.		

Clastic Rocks Common Name	Crystalline Rocks Common Name	Lower Size Limit (mm)	Upper Size Limit (mm)	Size Grades Phi (Ø)
Clay	Cryptocrystalline	0.00098	0.004	+10 to +9
Very Fine Sitt	Very Finely Microcrystalline	0.004	0.008	+8
Fine Silt	Finely Microcrystalline	0.008	0.016	+7
Medium Sitt	Medium Microcrystalline	0.016	0.031	+6
Coarse Silt	Coarsely Microcrystalline	0.031	0.0625	+5
Very Fine Sand	Very Finely Crystalline	0.0625	0.125	+4
Fine Sand	Finely Crystalline	0.125	0.25	+3
Medium Sand	Medium Crystalline	0.25	0.5	+2
Coarse Sand	Coarsely Crystalline	0.5	1.0	+1
Very Coarse Sand	Finely Megacrystalline	1.0	2.0	0
Granules	Coarsely Megacrystalline	2.0	4.0	-1
Fine Pebbles		4.0	8.0	-2
Medium pebbles		8.0	16.0	-3
Coarse Pebbles		16.0	32.0	-4
Very Coarse pebbles	3	32.0	64.0	-5
Cobbles		64.0	256.0	-6 to -7
Boulders		256.0	infinity	-8 to -9

The size measure Phi is equal to the negative logarithm to the base 2 of the size in millimeters.

Thus 1 mm = 0 Phi and 1/2 mm = +1 Phi and 1/4 mm = +2 Phi etc.

		Ceme	nt
Anhydritic Gypsiferous			Gypsiferous
300	Baritic		Hematitic
ar.	Bituminous		Limonitic
20	Calcareous	SPS	Pyritic
	Chert - dark	310	Salt
(A)	Chert - light	-	Sideritic
	Dolomitic	100	Siliceous
	Ferruginous		6.

Sorting Track		
VP	Very poorly sorted - > 10 phi size grade classes	
P	Poorly sorted - 6-10 phi size grade classes	
M	Moderately sorted - 3-6 phi size grade classes	
mW	Moderately well sorted - 2-3 phi size grade classes	
W	Well sorted - < 2 phi size grade classes	

Rounding Track					
VΑ	Very Angular	r	Subrounded		
A	Angular	R	Rounded		
a	Subangular	wR	Well Rounded		

Framework Track

Framework is a ratio between clastic material greater than 1/16 mm and primary void filler less than 1/16 mm. ? indicates questionable interpretation

Core Track		
	Indicates Cored Interval	
	Indicates Lost Core	

Т	est Track
	Indicates Tested Interval

Clastic Rocks	Lower	Upper Size	Size Grades
Common Name	Limit	Limit	Phi
	(mm)	(mm)	(Ø)
Silt (Lower)	0.0039	0.0312	+8 to +7
Silt (Upper)	0.0312	0.0625	+6 to +5
Very Fine Sand (Lower)	0.0625	0.0937	+4.5
Very Fine Sand (Upper)	0.0937	0.125	+4
Fine Sand (Lower)	0.125	0.187	+3.5
Fine Sand (Upper)	0.187	0.25	+3
Medium Sand (Lower)	0.25	0.375	+2.5
Medium Sand (Upper)	0.375	0.5	+2
Coarse Sand (Lower)	0.5	0.75	+1.5
Coarse Sand (Upper)	.75	1.0	+1
Very Coarse Sand (Lower)	1.0	1.5	+0.5
Very Coarse Sand (Upper)	1.5	2.0	0

The size measure Phi is equal to the negative logarithm to the base 2 of the size in millimeters.

Thus 1 mm = 0 Phi and 1/2 mm = +1 Phi and 1/4 mm = +2 Phi etc.

Pr TG (T 25 Drill)	otal Ga 50 Rate (n	ss (%) 7510		Formation Tops (Short Name)	Core	Oil Shows	Porosity Type	Porosity (%) 15 20	Interpreted Lithology	Grain Size (mm) c st	Sorting	Rounding	Lithology Description	Gamr 0 5	Poros	(gapi) 00 15
		0 1	3										Ovbdn: 0 - 14: Ovrbdn			
			10 m										=			
										27272			Meta: 14 - 67.9: Indian Head Complex, m gred quartzo felipspathic gneiss / foln at 80 dgr to cr axis, fracd, magnt			
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			30	20												
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			40 11													
				50										# 1010000		
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		301		11111		1111	Meta: 144.8 - 163: Indian Head Complex, quartzo felspathic gns, incrd gtz, plag and mafic lyrs on 1		133
				1444		0.00	- 0.50m scale, max 2m thick zn, grds into a		1
	441	- 11:		11111			felsic/ mafic differentiated zn, hzti bands on om scale, magnt throughout		
		- 11	7						- 120 -
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instal.	- 1 - 4	1000	3					1000	0.741.0
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				11.71.7		111111	Meta: 163 - 172.4: Indian Head Complex, as but	100	
	11 1	1-1-		1 - 7		111111	plag cont incrg overall, occ sub vrti frace, foln and banding var from hztl to 45 dgr to cr axis, abnt		5.5
1000						11111	thin qtz infilled fracs, note 3cm thick qtz vein at 45 dgr to cr axis @ 153.9m, note fracs at 45 dgr		Ji.
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1.4					ancient breed zn. hilly rexid / yc gred sbred ct	1111 11 11		
4 4	1 1	-111	1	+	pos serpentinized sects, gnsh gy cly alteration and mnr red cly altern in thin cm scale bands	400		
1.		A = A - + - Y	1000		recommend another look at this sect	1117		
11-	1		100	1		1015	P-51	
1			1	N	11.17	1111		
-	1 -	1 1 1 1	1 1 1 1	200	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2111	141	
125	* 1	1 1 - 1		3	1.5.0			
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			41.6			200	100	
-	- 1	1 4 4	111	+		+ - 1	1 1	-
- 17	- 1				Meta: 206.3 - 217: Indian Head Complex, qua	dzo.		
1 1	21		1010	1	felspathic gns / incr in fid cont, thicker	40.5	1-1	
1 A				l	differentiated fyrs up to 1m thick, feisic zns ar xin and may be overprinted, otherwise abint fo and meta strucs vis throughout	n	175	
-		1	0.71	210	and meta secus vis tia cognitur		+++++	
	- 1					122.01 0		
**1		1000	10.1			-1-1-1	- 48	
						100	1,0	
-			1.1.1.1		1441	110/		
	11 -	- 111						4
	1	1-2-6	15.70	1	Meta: 217 - 245: Indian Head Complex, quart	0	-1.	
	0:00	1 0 0 1	-1111		feldspathic gns / incrd mafic cont (magnt rich banded with felsic and mafic lyrs, rexid and fe		111	
			1 1	220	gneissic zns lyrd on 2m scale		171.0	
				m		1.1.1.1	1	
		415			1 1777	2.53	104	
		211	121			15.44	10.1	-
	- 1	1000	Denie -			1000	-1-1	1
	ij	1.1.				10-11-1	1 1	
19		1.	- 1			10.11	-14.1	
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		1 1	110	1	1427 PERSON TANK	10 - 10	1211	
-00			- 4.		Meta: 245 - 246.9: Indian Head Complex, gy a anorth(?), pos intrusive ig feature, occ xin ban	ph		
1		444	- 1-1		up to 2cm thick Mets: 246,9 - 277; Indian Head Complex, oua		-117	1
12.6					feldspathic gns / incrd plag cont (magnt rich),	a father a		3
1		-554		250	thick) differential felsic/ matic banding on 1m	1-45-5		
			11:11	m	of zn	9	- 1 - 1	
1		-34	1:15	-				
45	100	1101	1-15		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1000	-77.5	1.
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		1 - 1 - 1			140 mm		5
		12 11		Meta: 277 - 295.8: Indian Head Complex, as / Incrd plag, qtz and mafic cont, hztl lyrg on 1cm			
+1.	174 N. I		280	scale, m gred rexid altr zns (f gred overall) on 1 - 20cm scale to fol gneissic zns lyrd on 2m scale		-33	2.4
115	100				1111		
4	-444	1337	1		1333		
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				Meta: 295.8 - 312: Indian Head Complex, as /	1	200	
				incrg fld cont, pos hem altn, xin zns less abnt, foin ~ hzti but incrs to 70 dgr to cr axis	E-1919 (CH)	0.74	
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13 =	11.14	-111	310	200 A F		,	4
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				Meta: 312 - 352: Indian Head Complex, quartzo			
		12-14		feidspathic gns / lyrs of m gred fld rich zns on 1. scale, abnt thin calc infilled fracs var from sub v to 60 dgr to cr axis incrg down zn., note 5mm			
	1111	-		thick calc infilled fracs at 60 dgr to cr axis @	- 6 4 5	-	
	10.17						
-		334	320		100		6
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	110000			taral d A	Meta: 352 - 366.5: Indian Head Complex, quartzo felspathic but foin hilly overprinted and xln, abnt	- 140 4 4 4-10	
500			1777	3334	calcs infilled fracs	271-572 572	7: -25:5
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		-		F 4-1-1 - 0 - 0	Meta: 366.5 - 443: Indian Head Complex, quartze felspathic gns, incrd differentiation and banding of		a k contact
		370		17777	felsics and mafics on 1m scale, foln var from ~ hztl - 45 dgr to craxis		
	4	0 m		1777			
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						101.01.0	
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411.4		149 40	+ 1				177.7.1.1	hzti - 45 dgr to cr axis			
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-11-	-337		-		1111		14551			1.12	
		10.00					101010				4 004 -
					1515		1.1.1.1.1	Meta: 443 - 452: Indian Head Complex, as / Incrd plag cont, foln more consistently at 45 dgr to or laxis	11:1	14:1	
					1212		2000		-1::	1444	
	12116	-1-1	1		1111		11.1.1.1.1		1111	-141 2 b	1-1-
					1111		12/2/23			1211	
484	333		3		1777	C. C.	- 24-13 3		2:1:	1211	1111
	- 101 d t	-21	1 1		1.556		10101 0	Meta: 452 - 467.9: Indian Head Complex, quartzo feldspathic, gneissic foin almost completely	211	10.75	1215
451							1	masked by rexin, no differential banding			
AL I	1211	-44			14:4		11/11		441	-	
Walter Art	111	1111	1		1 4 5 6		1.1.2.2.4		400	186	- / 4 %

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11 11 11 13	12	2000 Bab Baban			-1.77	
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				444		-123
	12			200	-111	
				121	1.00	111
		A CONTRACTOR OF THE CONTRACTOR	leta: 457.9 - 486.8: Indian Head Complex, uartzo felspathic gris, still some overprinting of		-7:1	- (* -
	-	folios ba	In by rexin, occ differentiated felsic/ mafic anding, occ sub vrtl fracs, incrg plag cont down			- 1
100 100 100		zn		1475.03	-117	190
to be the second second	374			-19		
	114			345		- 7
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e-17 (85-91, 87)					-333	- 1
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				- 1 1	- 1 1 1	
			leta: 486.8 - 489.2: Indian Head Complex, hily			
19.5 19.5 2 19.5		(d	ixid anorthosite, pos ancient intrusive ig feature lyke?)	24.	-3336	-24
		M. M	leta: 489.3 - 493: Indian Head Complex, quartzo Ispathic gns, hily rexid	7/4		- ::
	114	The same of the sa	espatric gris, filly rexid	1442	446	200
	1 1 1	Maria Caracteria Maria	leta: 493 - 495.8: Indian Head Complex, gy	. Harris		4.
200 123 123		ap ap ap ap	ph, pos f fnt hztl lams (may be dur to coring) nd ves indicating a volcanic nature, also pos			14.9
	-		ag phenocrysts, abnt calc infilled fracs, u ctc @ 5 dgr to cr axis		1 1 2 1	1
Carlotte Land Company		M M	leta: 495.8 - 497: Indian Head Complex, vf gred	-110	-157	
111		1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	d rich rexid zn, abnt calc infilled fracs lets: 497 - 502.7; Indian Head Complex, gy aph,			
	117	pc	os ancient intrusive ig feature to 498m and gns terlayered below			-1111
		200 S 20				- 1 -
AT A SECULAR SECTION				:::::	- 12 2 4	- 3 -
200 THE 1		7777 - 10 - 10 - 10 - 10 - 10 - 10 - 10	leta: 502.7 - 523.5; Indian Head Complex,		-633	
25.0	5.7.9	or or	uartzo feldspathic gns, hztf foln, xin zns lyrd / nelssic zns on 2m scale, fld cont var, mafics nay contain chromite (note feature @ 514.6m)			- 6
			ay contain disturbile (note realure (g. 514.6m)	3442	550	100
				11111	-111	0.1
111 111 111	1					- 1
THE PART OF THE	-14-	17777 BEST 1884				74.1
					157	1014
	110	10.00		3144		-12
	- 1 1	1111		Color a		
CONTRACTOR OF THE PARTY OF THE	217			100	-0.5	- 0
					11553	
				444		443
	5 1 7			410		
	15	Market September 1997	leta: 523.5 - 534.3: Indian Head Complex, northostic gas hzti foln still fracs at 45 dgr to cr	9173		

			anorthostic gns, hizli flon, still fracs at 45 dgr axis and occ acid infilled fracs, ctcs at 45 dgr or axis, fint hizt lams, note hilly xin zn @ 528 as fid cont incms, lyng on 1m scale (fid -rich to plag rich zns)	to 5m		March of the last
			Meta: 534,6 - 536,6: Indian Head Complex, a incrd altin minth, hilly xin zn @ 595,6m, zns o 0,5 - 1m scale, calics, (SAMPLE IH1-01 @ 535,6m)	1		
			Meta: 536.6 - 538.9: Indian Head Complex, g wh f gred hily cales sin qct, min differentiate and banding, genty massive, vf gred from 53 537.3m and from 538.4m, (SECTION SAMPLED, IH1-02 @ 598.2m, IH1-03 @	.9 -		
			536.8m, IH1-04 @ 537.5m, IH1-05 @ 538.3i Meia: 538.9 - 541,2m: Indian Head Complex.	n) bily		
7.1			3 539.7m, H1-07 @ 539.3m, H1-07 @ 539.3m, H1-10 @ 540.4m Mata: 541.2 - 548.5; Indian Head Complex, v	0		
	1-11		gred anorth and gns. lyrd felsic and mafic bar interlayered alt xin bands	ds,		
2.7.1			Meta: 548.5 - 556.4: Indian Head Complex, Indian He	rd .		CALL AND
			are firity bind on mm - cm scale ea., citiz @: dgr to cr axis, pos ancient infruite ig feature note chlor epi infilled fracs @ 553m	15		1 to 1 to 1
		7	Meix: 556.4 - 556.8: Indian Head Complex, g anorth, pos remnant ig feature, infilled fr oriented at 45 dgr to or axis like u and I otos, domly will but occly rand, if first halt larms, note to sects above	y ics racs sim		
			Meta: 556.8 - 574.7: Indian Head Complex, anorth and gns, differentiated felsic/ maffic gneissic and xin zns grdg into hity felishatic pos hem alth, folin incrs to 45 grt to cr axis, t	ms/		
			plag rich zns in 6m intervalis, calc infilled frac mini alln, magnt throughout			
		- 11	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10-31-51		Section 1
			oj.			
			570			- 4 - 4
			Metz: 574,7 - 577; Indian Head Complex, as incrd attn (chlor, epi) in gneissic zn, magnt			
			Meta: 577 - 501.1: Indian Head Complex, an and gns, differentiated felsiol maffo gneissic is sid zus gride into hity felsability 2 / 20s hem	orth ind		
			zns in 8m intervals, calc infilled fracs, mini al magnit throughout	n.		
				1 - 1 - 1	2.50	* * * * * *
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	- 1111		590 m			

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1 - 2							200		200	100	1 -
100		: 1:	4.4						3121	1115	10
12.2	1 1 1 2	1					det de la		100	1	7
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14/6	7121	100			1 1 1 1 1 1 1 1 1		9.4.	bik - redsh pk f gred ans, felsio/ mafic lyra on 1m	4-1-4-5	1	1
1000	1 200			on l	1 1 1 2 2 2 3		2500	rich, catcs, occ sub vrti mm scale fracs, note		155	1
1	1000	-	-	600	1 1 1 1 1			chlor and epi altn zn from 598.3 - 598.6m		1	
14.4	5 0.16	1 21 -	1.5	3	1 1 1 1 1 1 1		5557.1	Laborate and the second	1121		
100			-		1 1 1 1 1 1 1 1 1 1			Meta: 601.1 - 611: Indian Head Complex, f gred gysh blk anorth, occ foln vis sim to above sect,		100	
117	11:00		-		1 1 1 2 2 2 2	23	1000	magnt rich, calcs, rare sub vrtl mm scale fracs	No.		II.
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1.1				610				11		1-1	-
1992								Meta: 611 - 612: Indian Head Complex, f gred	111111	1111	-
100	99.5			3	1 1		555.5	gysh blk anorth, sub vrtl mm scale fracs u 0.5m, calcs, magnt rich	177	-11	
110.4	1074	100	1					Mela: 612 - 614.9: Indian Head Complex, lyrd			
1.00					1 1 1 1 1 1		10 min h	felsic/ mafic zns on 0.02 - 0.04m scale at 50 dgr to cr axis, magnt rich, calcs, note basal 0.20m m	0.53	100	
10.0	1	-	- 1	1	1 1 1 1 1	99	60.55	c grea xin	1000	1 - 1	
1	1000	1	1		1 3 4 5 5			Meta: 614.9 - 625.5; Indian Head Complex, vf gred anorth, gysh bik mafic lyrs / occ redsh pk	1111		
		-			1	鹽	Cities a	felsic zns on cm scale / max 15cm thick bands			
12.72	100			1	111111		1000	magnt rich, calcs, rare m - c gred 0.02m scale kin lyrs overprinting griessic tex, fracs at 45 der	24 4 4		1
	100	-10	-	o,	1.000			aa, note chlor epi altri from 616.6 - 617.2m. note	1000		
	7-1	1		620				the next 27m may have abrit ancient intrusive ig features	1.000	7	
	11.11	1		3	1 1 1 1 1 1		1222				
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	4 - 1				77.17		1777			1111	1
1.7	1	1			157.24		1.55	Meta; 825.5 - 628.5: Indian Head Complex, aa.	12.3	1020	
1		100			100	8.8		banded at 60 dgr to craxis / cm scale plag and calc rich lyrs / alth to chlor and epi, calc infilled	144-	H+ 4	-
							1000	tracs u 0.40m, magnt, calcs			1.
	-	1111	-	630	1000.0			Meta: 628.5 - 633.6: Indian Head Complex, aa,			1-1-
Die:	100	-07.1		3	33.53		100	yrd / felsic and possibly redshipk hem alt on 1.5 to 0.40m scale, calc infilled fracs up to 2mm thick	1-7-1		1
		- 0	-		1 1 1 2	12		at 45 dgr to or axis, magni, calcs	+ + + -		1
100	42.1	11:	1		10.10.1		00000			- 1	
			2		* * * * *		141-04-0	Wash 200 C CO. C	200 53 ES		1:
1 - 1	1110	1	+		1 1 1 1	EIS	4 9 4	Meta: 633.6 - 637.6: Indian Head Complex, as / minl lyrg of plag and calc rich spotty bands, incrd	1 1	1111	1.
1-11	[Val	11:1	3		1 2335		1.1.17.1	alth zns on 1m scale, occ calc infilled fracs, incr magnt and mafic cont, decrd fid cont, calcs	- 71	1. 1.	1.12
	1	-10.4	1	11	1					10.0	
		1	1		1722		122.14	La constant de la con	1111	3 1 3 11	
	100		. 5	20	1000			gred gysh - blk anorth aa / fld contingro at	-1		
		4.5 F				88	77.77	442.6m, felsic pos hem att resh pk lyrs on 0.50 - 1m scale, occ spotty foln vis at 70 dgr to cr axis,	1 1 1	1100	100
	111111	1	1	1	1 2777			magnt, calcs	-17.1	19.1 5	-12
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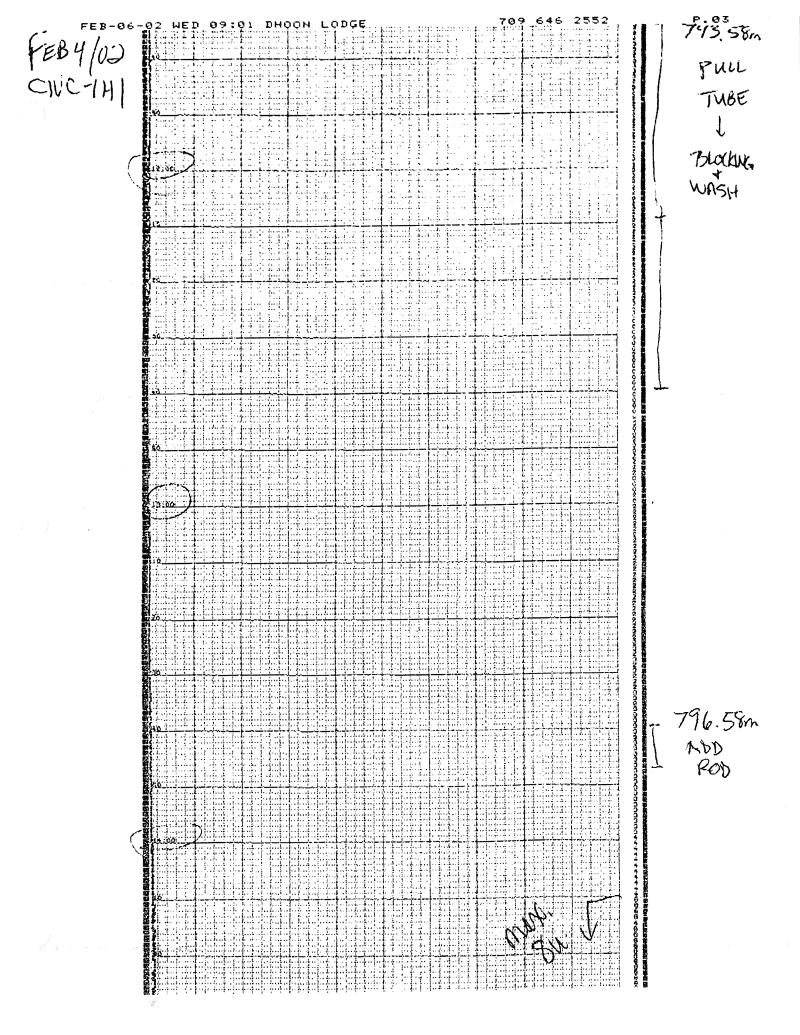
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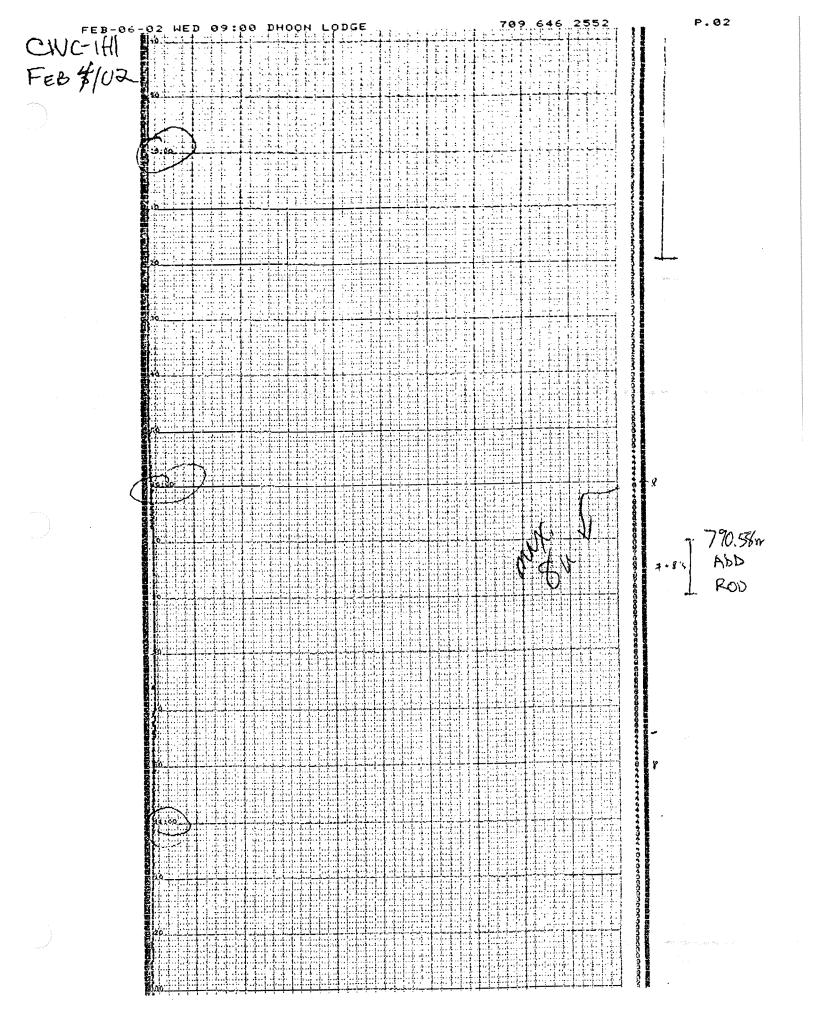
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FO Box \$133, Stadon B, Fredericton, NB ESA 6G9 381 Brunswick Street Tel: (608) 463-7700 — Faxt (606) 463-9881 Email: Breedge-grienetinb.ce VMb — www.3d-;ecoon.com

FAX TRANSMITTAL COVER PAGE

Date:	Jeforgary (0, 2002) George Langdon
To:	George Langdon
Of:	Canadian Imperial Venture Corporation
Fax #:	709 - 739 - 6605
Pages (incl cover):	in the second second
File#:	Harry's River Area: Indian Head #1

Greorge,

As ser your emuled request

here is the gas seak. There is

another one shortly after the
second time we left the rig!

I will mail a complete copy of

the gas logs within the next

two weeks and I will imail the
strip log AS.A.P.

From the desk of ...

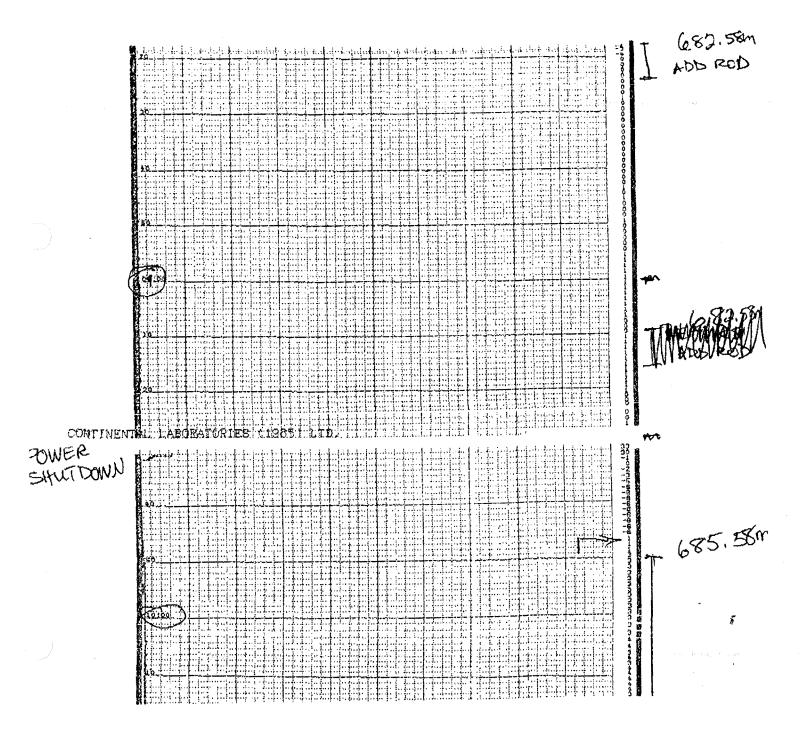
Kristina Giles
THREE-D GEOCONSULTANTS LTD.
PO Box 3133, Station B, 391 Brunswick Street
Fredericton, NB Canada E3A 5G9

Tel: (506) 453-7700 Fax:(506) 453-9961 threedge@nbuet.nb.ca www.3d-geocon.com

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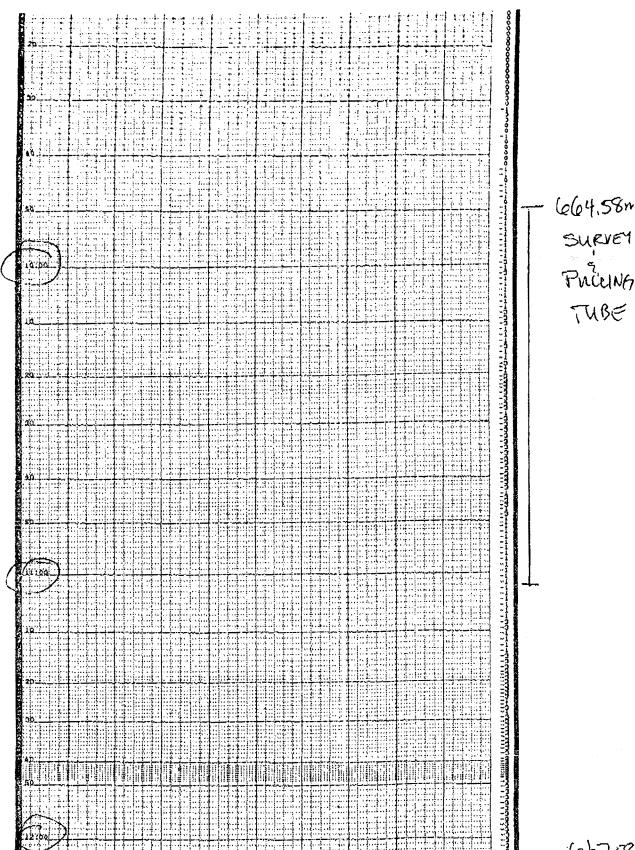


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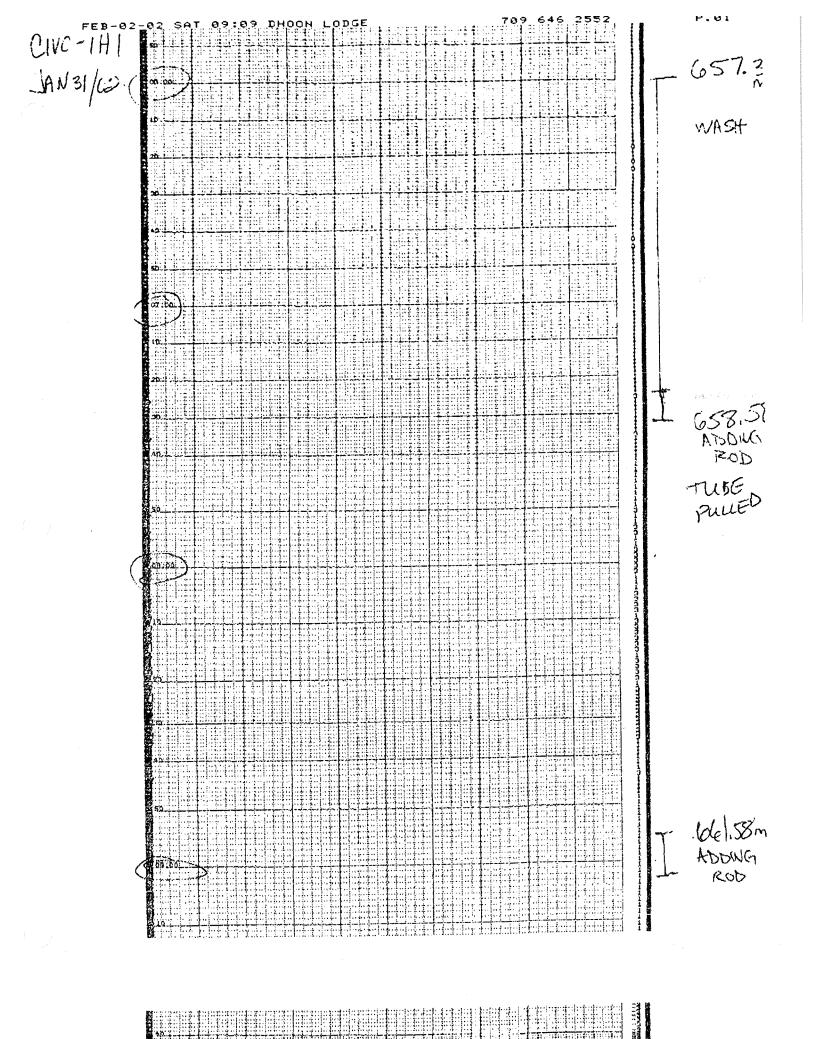
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CNC-Indianthead #1- January 31/02.



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Date:

To:

Of:

Fax#:

File #:

Pages (incl cover):

PO Box \$133, Station 8, Frederictor, NB EJA 6G9 391 Brunswick St set

Tel: (608) 453-7700 Fax: (606) 483-9861 Email: @reedge@hbnet.nb.ca

Map: www.gq-geocourocus

FAX TRANSMITTAL COVER PAGE

George Langdon

Canadian Imperial Venture Corporation

709 - 739 - 6605

Harry's River Area: Indian Head #1

- culr

Gas hogs from 0:600 January 31/02 through 15:00. (All other pages destroyed in a paper jam - the hazards of using a print out only system. Decipherable readings, showed no ges readings during this time.) Hus logs from 19:00 - 20:00.

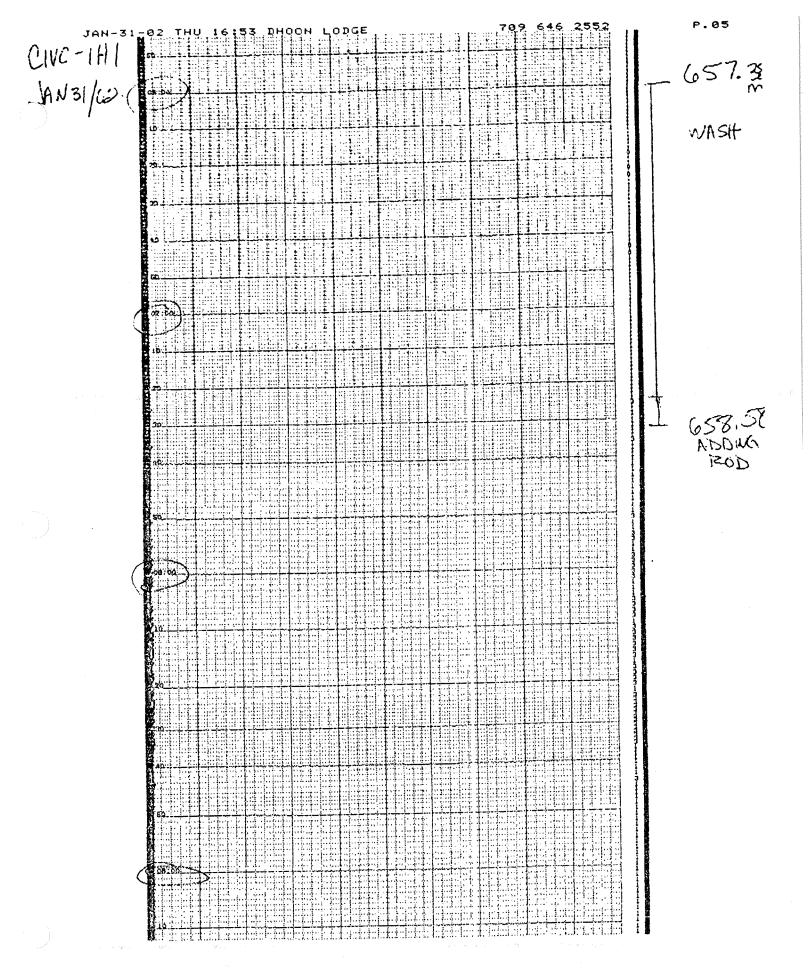
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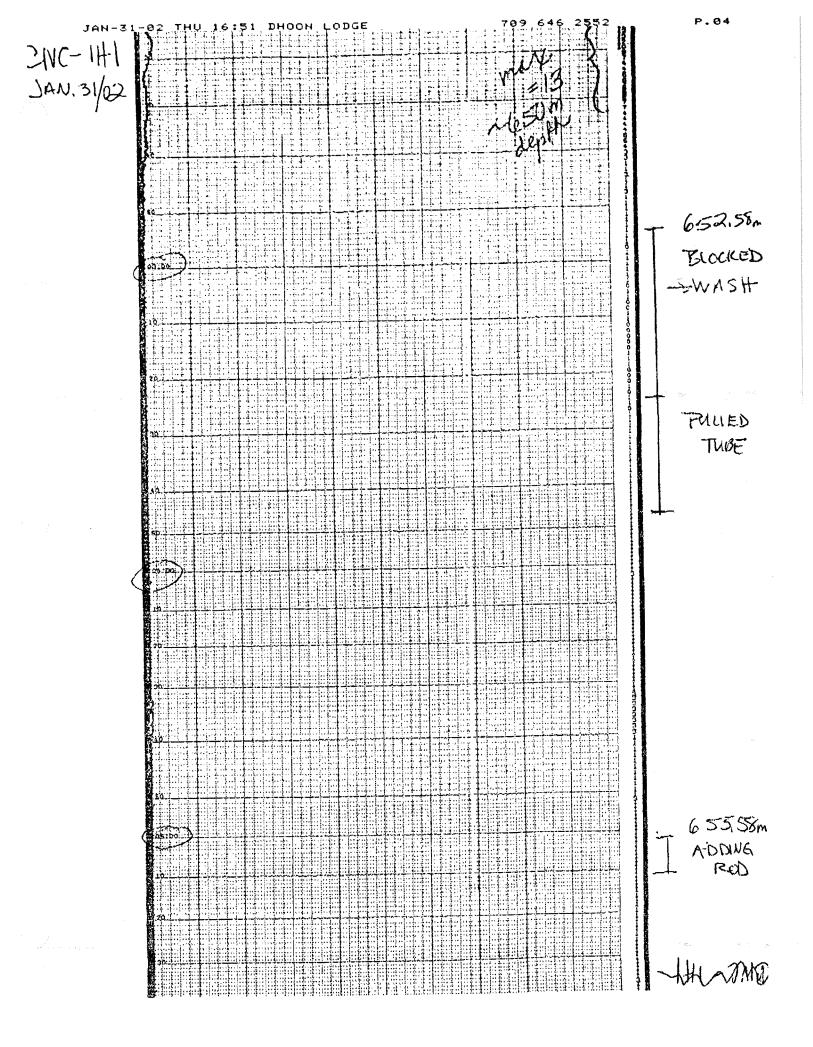
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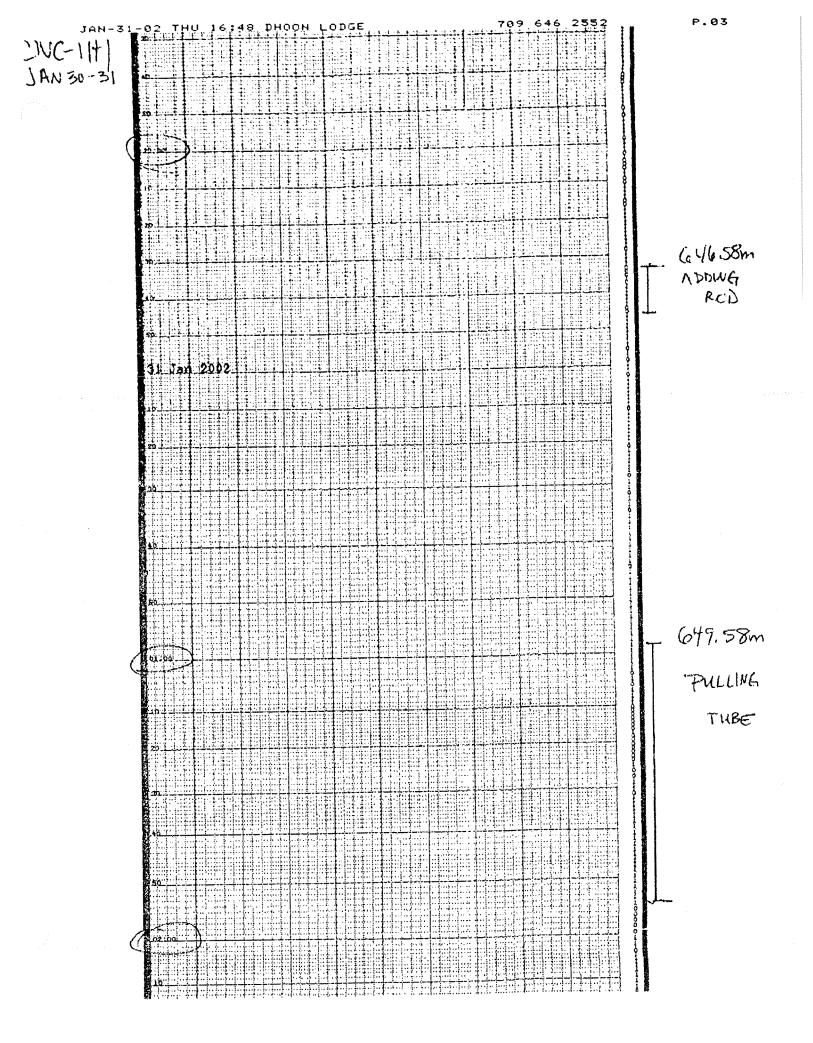
From the desk of ...

Kristina Giles
THREE-D GEOCONSULTANTS LTD.
PO Box 3133, Station B, 391 Brunswick Street
Fredericton, NB Canada E3A 5G9
Tel: (506) 453-7700 Fax: (506) 453-9861

threedge@nbnet.nb.ca www.3d-geocon.com









PO Box 3133, Station B, Fredericton, NB E3A 6G9 391 Brunswick Site xl Tel: (508) 453-7700 Fax: (506) 453-9861 Email: threedge@ibnet.nb.ca Web: www.3d-geboorl.com

FAX TRANSMITTAL COVER PAGE

Date:	January 31, 20027. (3:30 pm)
Го:	George Langdon
O f :	Canadian Imperial Venture Corporation
Fax#:	709 - 739 - 6605
Pages (incl cover):	5 + cover.
File #:	Harry's River Area: Indian Head #1
Sectory still be slightly Cur	logs from January 30th Prough January 30th Prough January 31st 09:00 am. light increase Erosiso. The shows nothing to account for this; asement with few fractures and larger grains in amost hosite. Irently drilling at 670tm (2:45pm) ig has been sent via email to g' Kluin. From the desk of Kristina Giles
	THREE-D GEOCONSULTANTS LTD. PO Box 3133, Station B, 391 Brunswick Street Fredericton, NB Canada E3A 5G9 Tel: (506) 453-7700 Fax: (506) 453-9861 threedge@nbnet.nb.ca

www.3d-geocon.com

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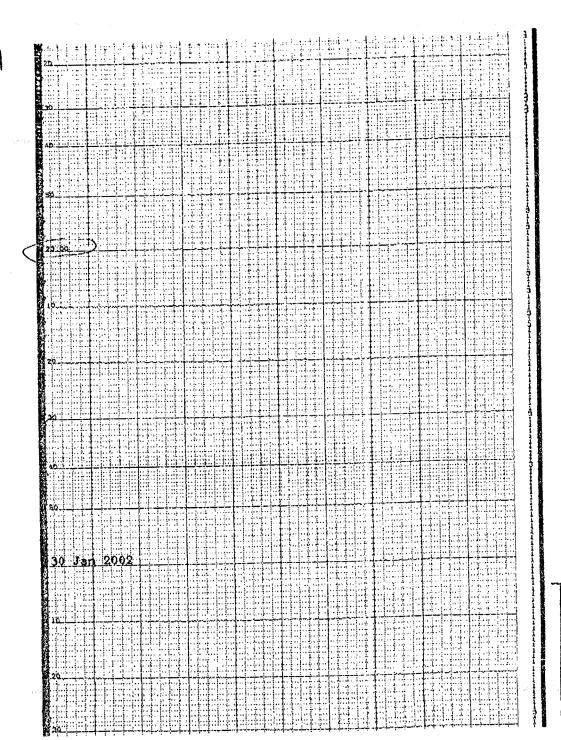
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PO Box 3133, 8tation B, Fredericton, NB ESA 509 391 Brunewick Street Tel: (506) 463-7700 — Pex: (506) 453-9861 Email: threedge@nbnet.nb.cs Web: www3d-grocon.com

FAX TRANSMITTAL COVER PAGE

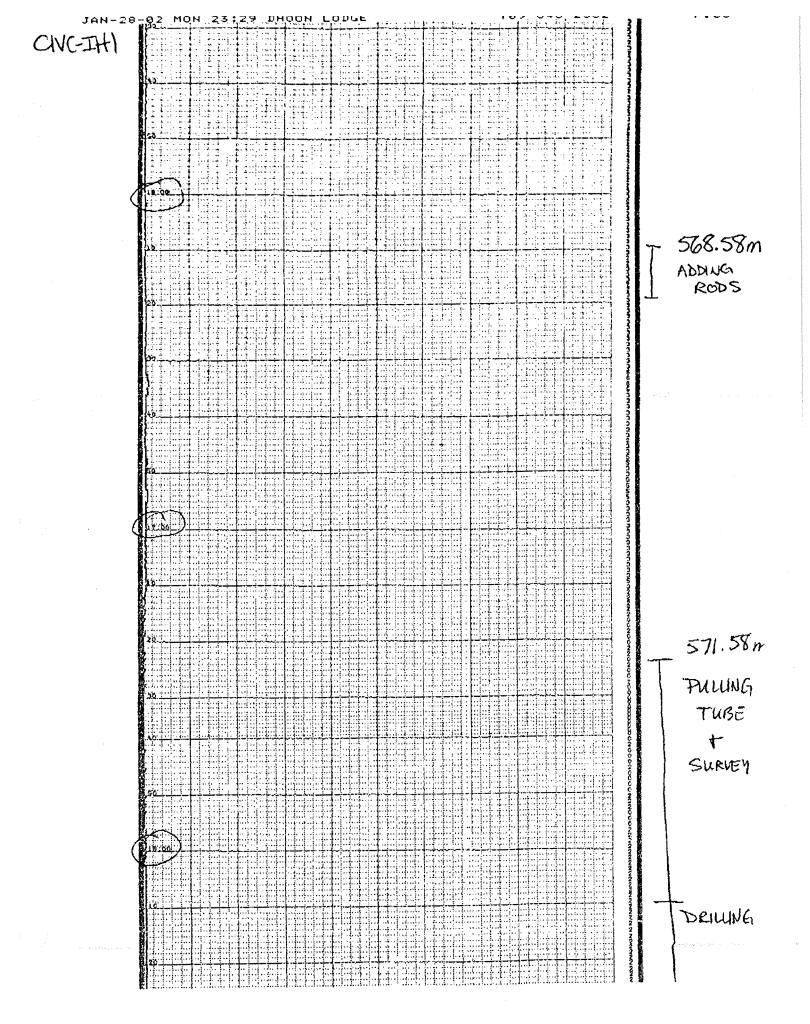
Date:	January 2002.
То:	George Langdon
Of:	Canadian Imperial Venture Corporation
Fax#:	709 - 739 - 6605
Pages (incl cover):	9 + 1
File #:	Harry's River Area: Indian Head #1
3 more	Logs from 19:20 January 29th 19:00 January 30th (Gas 0-100 ppm trugh 10 pm) increase in drilling rate to 3m an hour corresponds to a tion between 625m and 628m. slightly soften die to a del rase afic content (humblende) and magnifite. We and calcite are never abundant. The litholog for more details. Thinks, - hima

From the desk of ...

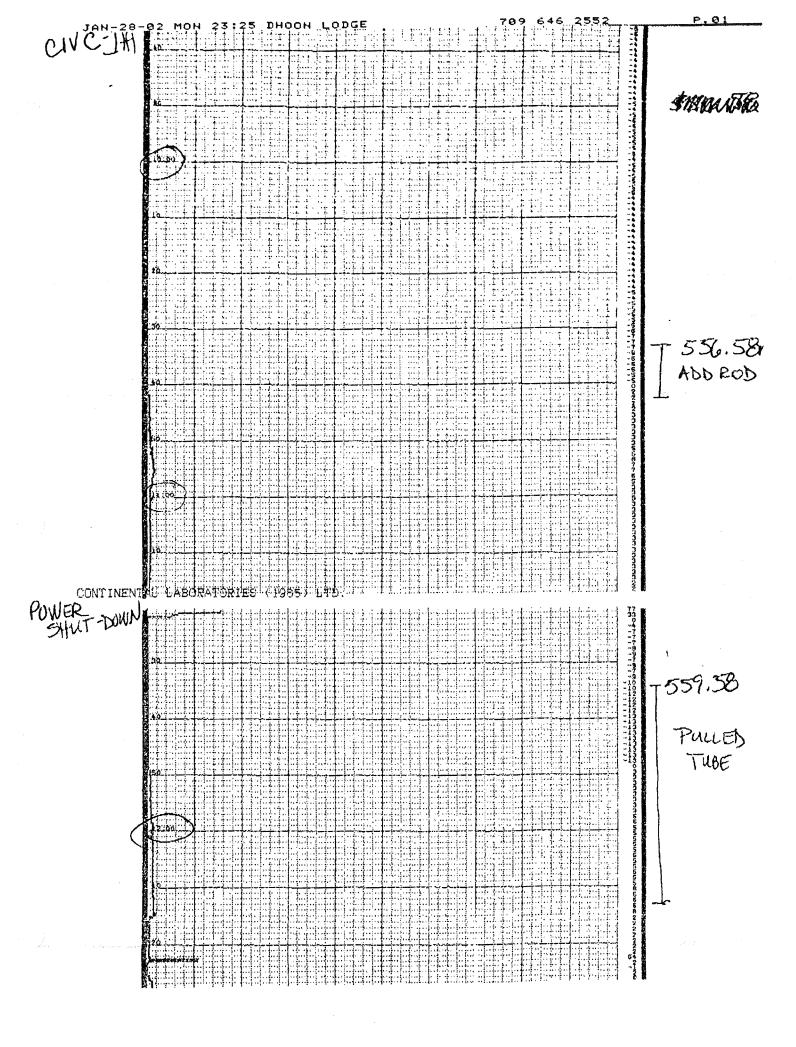
Kristina Giles
THREE-D GEOCONSULTANTS LTD.
PO Box 3133, Station B, 391 Brunswick Street
Fredericton, NB Canada E3A 5G9
Tel: (506) 453-7700 Fax: (506) 453-9861

threedge@nbuet.ub.ca www.3d-geocon.com

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Date: January 28,2002

To: George Langdon

of: Canadian Imperial Ventures Corp.

Fax#: 709-739-6605

Pages: 5+ cover.

Re: Indian Head 1

Here's today's gas log

print-outs. As of 8:45 pm,

we had reached ~ 5:74 m with

no change in drilling. The cored

section beyond this evening's log

was interseedded quartzite, gress

and possibly anotherite. It is

still fracked @ 45° with some

alteration but not like the earlier

section; only occasionali; are there

10 cm zones of high crystalline,

altered zones. I'll be calling you

shortly. Kustim

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FAX TRANSMITTAL COVER PAGE

Date:	January 28, 2012.
To:	George Langdon
Of:	Canadian Imperial Venture Corporation
Fax#:	709 - 739 - 6605
Pages (incl cover):	10
File#:	Harry's River Area: Indian Head #1

George,
These are the gas log or since
we started yesterday I have
transferred the Geolograph data so
you can get an idea of R.O.P. and
Lepth correlations up to 8 am this
morning. I will do this for the day
shift this evening.
The leg has been timaled.) Kustina

Kristina Giles
THREE-D GEOCONSULTANTS LTE.
PO Box 3133, Station B, 391 Brunswick Street
Fredericton, NB Canada E3A 5G9
Tel: (506) 453-7700 Fax: (506) 453-9361

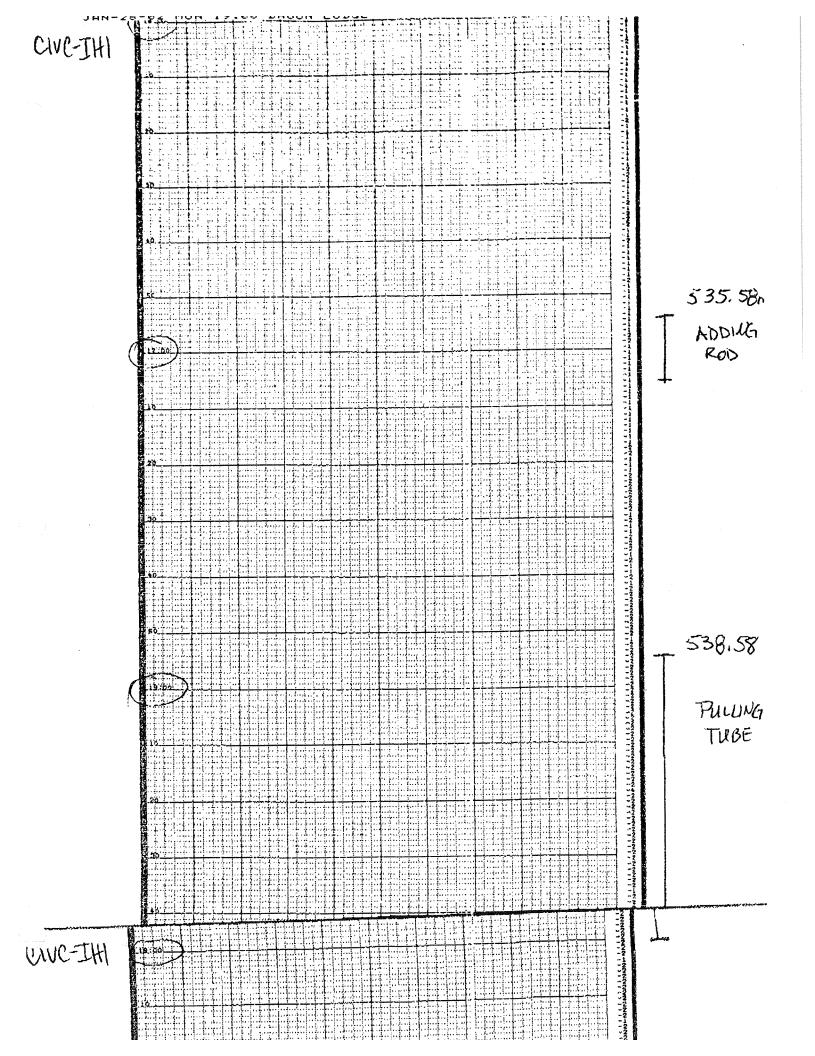
threedge@abact.nb.ca www.3d-geocon.com

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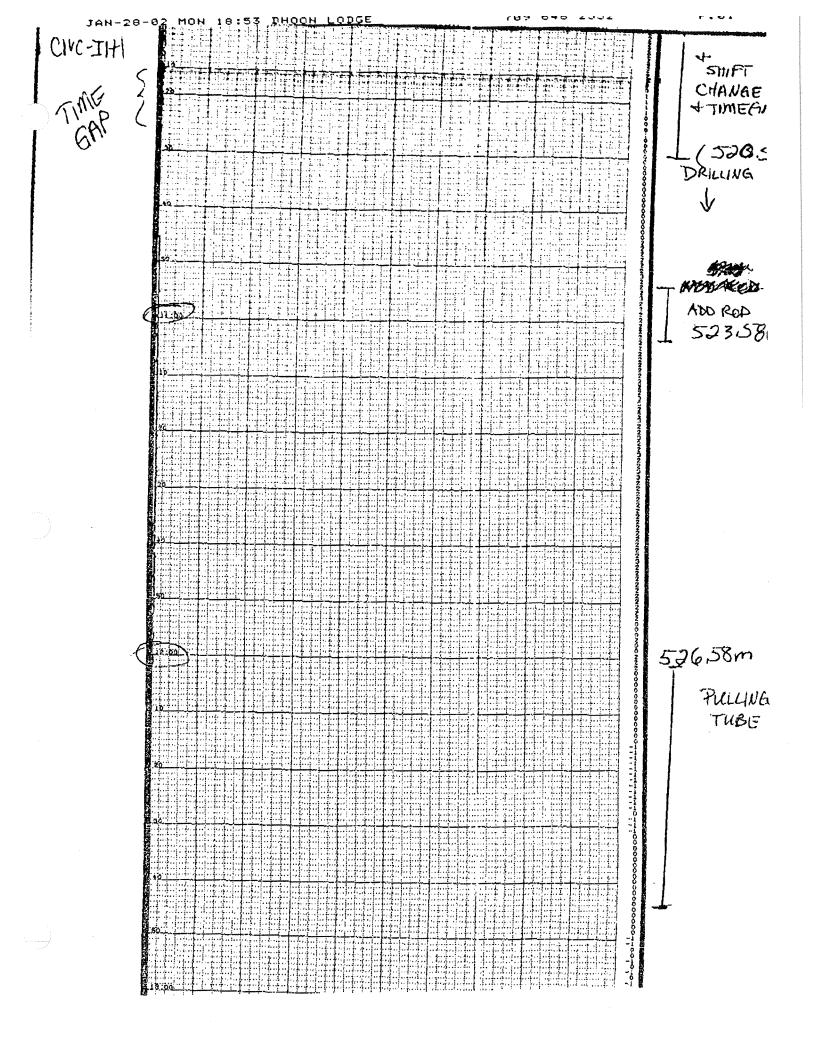
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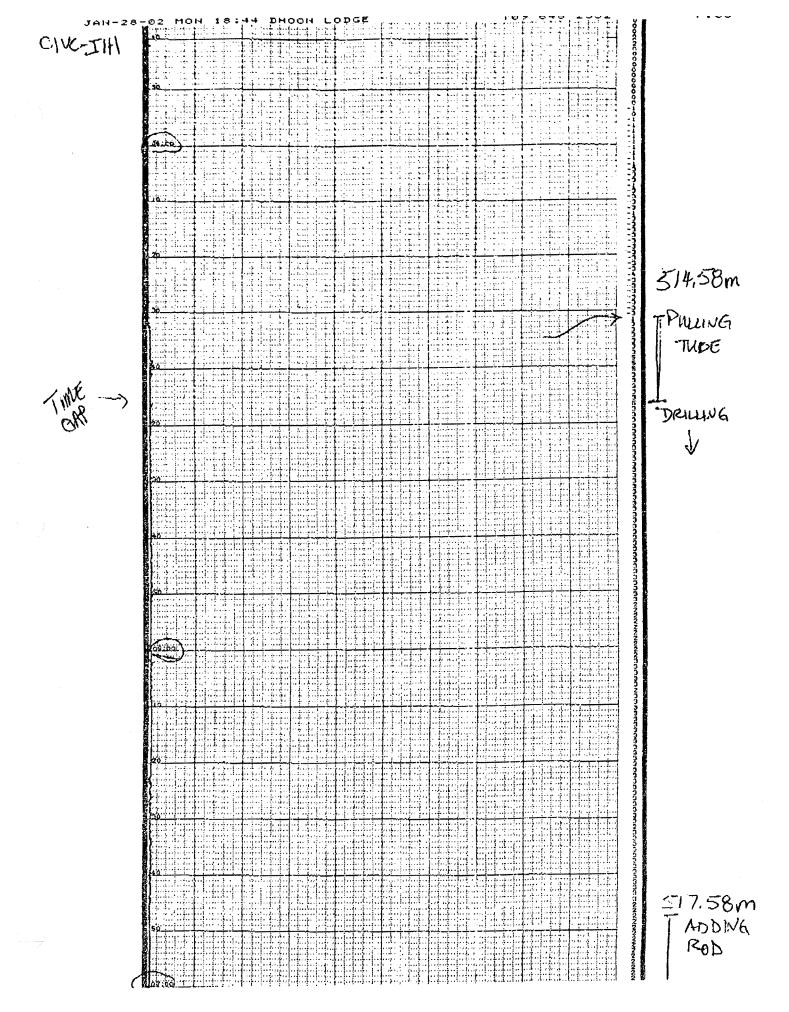
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