WELLMASTERS ENGINEERING TECHNOLOGY CORP.

"From Flag to Flare"



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Energy Branch
Department of Mines and Energy



SUITE 1510 700 - 4th AVENUE S.W., CALGARY, ALBERTA T2P 3J4

Bus: (403) 232-6334 Fax: (403) 232-6338

(2.1) Final Well Report

Delpet Vinland Big Spring #1

Wellmasters Engineering Technology Corp.

97-12-12

WELLMASTERS ENGINEERING JECHNOLOGY CORP.

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AUG 18 1999

Petroleum Rescurce Development Division Department of Mines and Energy RECEIVED

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Daily Drilling Reports

## Appendix #2:

Geological Summary

# **Lithology Description:**

Core Description 0.9m to 1393.25m

## **Penetration Data:**

Coring Times & Bit Information

# **Appendix A:**

Biostratigraphic Report

## Appendix B:

Geological Well Log

#### 2.2. Introduction:

The nature of this well, due to no offset well information and the lack of reasonably close seismic data, would have to be considered highly exploratory and speculative.

Delpet Resources Ltd, a Vancouver based company, contracted East Coast Drilling Co. Ltd. of Stephenville Newfoundland, who utilized their Rig #2, an HS - 150 top drive hydraulic coring rig, to continuously core the well to a depth of 1396mKB.

A summary of operations is as follows:

- Spud 114.3mm hole @ 10:00am, May 25, 1997
- KB (top of rotary head) to ground 4.15m
- Run and cement 139.7mm casing to 145m KB
- WOC & test.
- Install & test Crown, type FJ, 179mm X 14mpa X 139.7mm SOW casing head.
- Install & test 179mm X 21mpa double ram BOP c/w annular preventor.
- Pressure test all BOP components, including standpipe, manifold & flow line.
- Continue coring & reaming to 352m KB.
- Run and cement 114mm intermediate casing to 352Mkb, install casing slips & WOC.
- Install & test intermediate casing head Crown, type SF, 179mm X 14mpa.
- Primary & secondary seals tested OK to 12mpa.
- Continue coring to 1396Mkb
- Condition hole for logs.
- Run following electric logs 1390m to 352mKB, Induction, SP, GR, Sonic and Compensated Neutron.
- Abandon well bore with cement plugs as follows;
  - Plug #1.
- 1283 1390m, felt @ 1285mKB
- Plug#2
- 1109 1215m, felt @ 1115mKB
- Plug#3
- 330 390m, felt @ 330mKB
- Plug#4.
- 1 15m, felt @ surface.
- Recover casing bowl, cap casing with steel plate 2m below ground level. (Well name welded on plate)
- Rig released @ 97-08-18 @ 08:00 Hrs.

#### **Formations Penetrated:**

0.00m - 272.10m

Petit Jordin Formation.

272.10m - 1396.00m

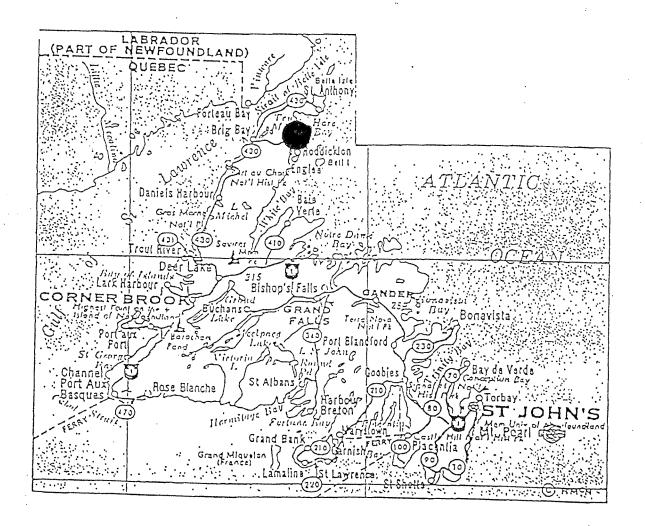
March Point Formation

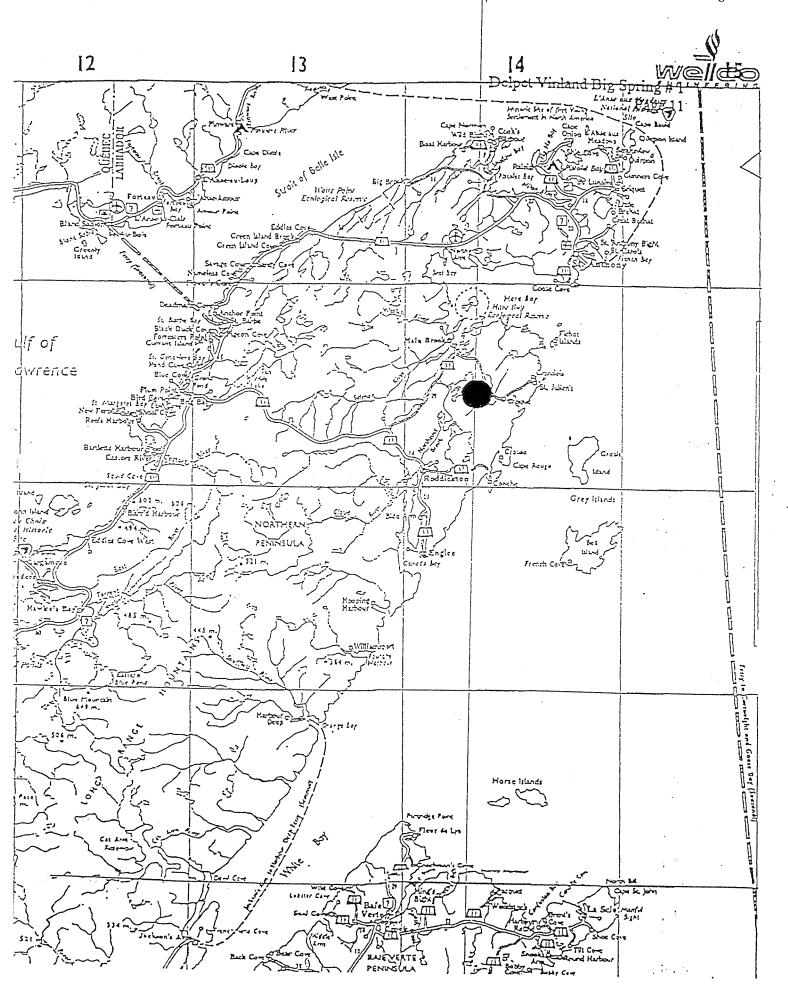
No formation flow tests were performed and the well is currently abandoned and capped with steel plating.

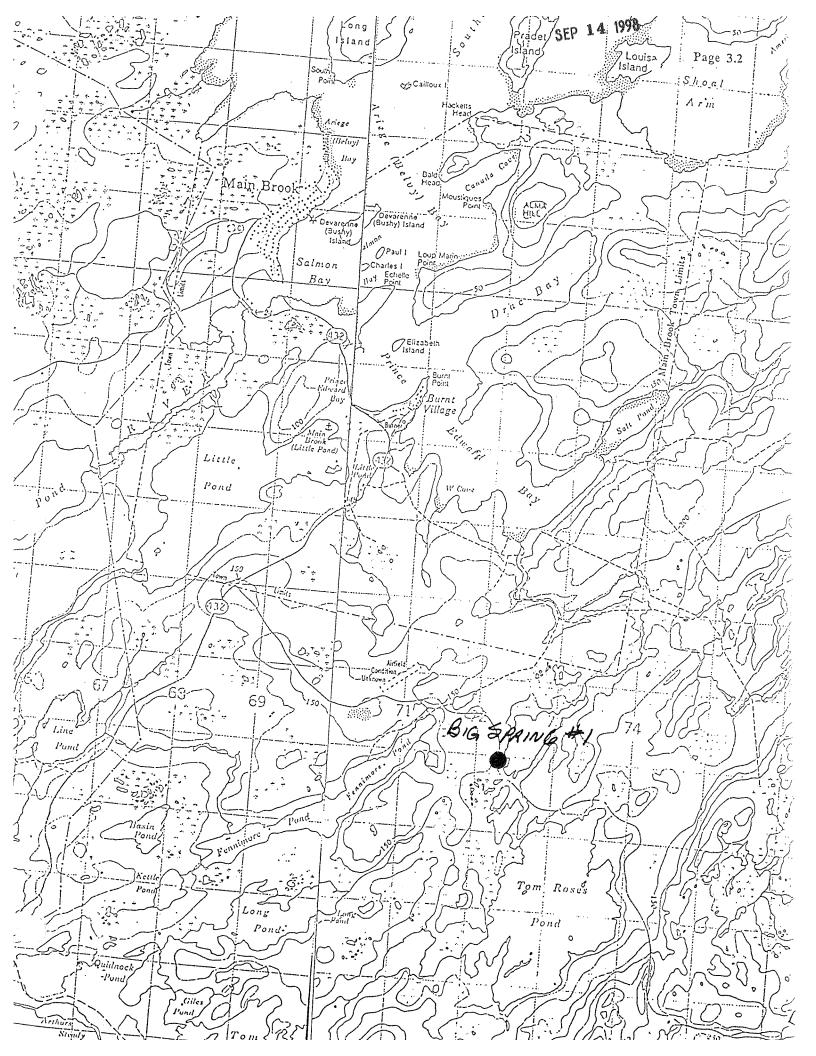


Delpet Vinland Big Spring#1

## 2.3 MAP







#### 2.4. General Information:

Well Name: Delpet Vinland big Springs#1

Exploration Permit: 92 - 102

Drilling Program Approval: #97 - 115 - 01 Authority to Drill: #97 - 115 - 01 - 01

Well Coordinates: (NAD 27) (Established using LEICA 399 Dual Frequency GPS Station

#89F340)

5663980.693 N, 572180.216 E.

Wellsite elevations established by a double run differential Level Logs from

Geodetic survey division vertical control monument #89F337.

#### 2.5. <u>Difficulties & Delays:</u>

Mechanical rig repairs accounted for 136.75 hours or 5.7 days. As one can appreciate, this particular rig was refitted for oil and gas drilling which accounted for some down time, but the equipment has seen considerable usage and required repairs and parts replacement. The last half of the well, the rig ran basically problem free.

Our drilling time was considerably longer than anticipated due in part to the time required to ream the surface and intermediate holes to accommodate the respective casings.



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## 3.0. <u>Drilling Operations:</u>

## 3.1. <u>Elevation</u>:

Ground

39.98m

KΒ

44.13m (top of rotary head)

Casing Flange

39.02m

#### 3.2. <u>Total Depth:</u>

Drilled Depth

1396mKB

Logged Depth

1390mKB

## 3.3. Spud Date:

97 - 05 - 25 @ 10:00AM

## 3.4. <u>Date Drilling Completed</u>:

97 - 08 - 13 @ 12:45PM

## 3.5. Rig Release Date:

97 - 08 - 18 @ 08:00 Hrs.

## 3.6. Well Status:

Abandoned (See item #3.18, page 10)

## 3.7. Hole Sizes & Depths:

139.7mm to 145m 114.3mm to 352m 96mm to 1312m 76mm to 1396m



Final Well Report Delpet Vinland Big Spring #1

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# 3.8. <u>Bit Records</u>:

See attached Bit Record sheet.



# WELLCO BIT RECORD

WELL NAME:	Delpet Vinland Big Spring #1	

Contractor	East Coast Drilling	Drill Pipe:		12.53	Type T.J.
Rig No.	2	Size O.D.	90mm Kg/m	17.30	Type T.J.
Date Spudded	97-05-25	Size O.D.	114 Kg/m		
Time Spudded	10:00 AM	Drill Collars:			
Date Rig Released	97-08-18	No.	O.D.	I.D	Type T.J.
Time Rig Released	08:00 AM	No.	O.D.	1.D.	Type T.J.

Bit	Size	Make	Туре	Serial	Nozzle	Depth	Meters	Cum.	Wt. on	RPM	C	ond.		Remarks
No.				No.	Size	Out m		Hrs.	Bit DaN		T	В	G	
1	96mm	JKS	52	3352	Open	62	62	22	3000	800				-100%
2	96mm	JKS	52	3355	Open	115	53	19	3000	800		İ		-100%
3	96mm	JKS	52	3350	Open	. 154	39	24.75	3000	800				Scrubbed
4	96mm	JKS	52	3351	Open	154			3000	800	TON	Λ		Scrubbed
5	96mm	JKS	52	722403	Open	95	41	12	3000	800				
6	96mm	JKS	52	HQ-Z4-420	Open	147	42	14	3000	800				-50%
1-148	148mm	Pilot	24	2V8394	Ported	30	30.4	49.25	3000	. 400				-60%
1-120	120mm	Pilot	24	2V8866	Ported	49	19.4	14.5	3000	600				-75%
2-148	148mm	Pilot	24	2W0437	Ported	121	71	27	3000	800				N/R
2-120	120mm	Pilot	24	2V8867	Ported	207	62	30	3000	500				-25%
3-120	120mm	Pilot	24	2V8869	Ported	352	144	107	3000	500			T	-50%
7	96mm	Boart	7	19660-1	Open	152	5	2	2000	300	TON	1		Broken
8	96mm	Boart	7	19660-2	Open	204	52	17	2000	700				Broken
9	96mm	JKS	5	3409	Open	319	115	46.5	3000	500				N/R
10	96mm	JKS	6	3799	Open	353	34	12.8	3000	500	TON	1		N/R
11	96mm	JKS	7	3353	Open	624	115	36.5	1500	500	TOM	1		N/R
12	96mm	JKS	8	3354	Open	513	148	51.75	1500	550				N/R
13	96mm	Boart	8	201093-2	Open	796	172	73	1800	500				N/R
14	96mm	Boart	2	20305-2	Open	988	192	51.5	1500	500				N/R
15	96mm	Boart	2	20305-3	Open	1312	324	87.5	1500	600				-90%
16	96mm	Boart	6	16941-24	Open	1396	84	26.5	1500	600				-15%

#### 3.9. <u>Casing and Cementing Record:</u>

Surface Casing (See: page 8.1, 8.2 & 8.3))

Ran 52 joints, 139.7mm, 25 KG/M, Buttress (3 threads per inch), flush joint N -80, new JKS casing, cemented to surface with 0.68m3 0-1-0A plus 3% CaCl2 mixed @ 1800 KG/m3.

Intermediate Casing (See: pages 8.3, 8.4 & 8.5)

Ran 116 joints (348m) 114mm, 17KG/m, N - 80, Rge 1,Buttress (3 thread per inch), flush joint, new JKS Casing. Cemented to surface w/0.85m3 0-1-0A, plus 2% CaCl2 plus 5.0% Nacl mixed @ 1850KG/m3.

#### 3.10. <u>Sidetracked Hole</u>:

N/A

#### 3.11. <u>Drilling Fluid</u>:

A biodegradable Polymer/Fresh water system was utilized thruout the wellbore w/average density of 1010 kg/m3 and viscosity of 38-39cp/sec.

#### 3.12. Fluid Disposal:

All fluid and fluid additions were totally biodegradable, disposed of by mix and bury on location.

#### 3.13. <u>Fishing Operations</u>:

N/A

#### 3.14. Well Kicks:

N/A

#### 3.15. Formation Leak-off Tests:

Intermediate casing set @ 352.5mKB, leak off test performed @ 358m, leak off gradient 23.77 Kpa/m.

#### 3.16. <u>Time Distribution</u>:

See Appendix #1



# WELLCO CASING SUMMARY

Surface Casing	WELL NA	ME:	Delpet V	Delpet Vinland Big Spring #1											
Shoe   Make   Nil   Type   Length, m   0.00	Surface Ca	asing		O.D.	140.00		_mm	Date	97-06-17						
Shoe: Make Nil		ľ	Wt.	Gr.	Rge.	Thd.	T&C	Make	1	Landed					
2   3.0   25   N-80   1   BUT   FLUSH   JKS   1   145.00m   1.50	50			N-80	1	BUT	FLUSH	JKS		111	140 15				
2	2	3.0	25	N-80	1					145.00m					
Shoe:   Make   Nil   Type   Length, m   0.00	2	1.5	25	N-80	1	BUT	FLUSH								
Collar:   Make   Nil				<b> </b>											
Collar:   Make   Nil   Type						******									
Collar:   Make   Nil	-					<del> </del>									
Collar:   Make   Nil   Type	G-14							·							
Collar:   Make   Nil	Shoe:	Make	Nil	*	Type			Length m			0.00				
Landing Joint (when used) Length, m   3.35m   3.35			ç	·····	•										
Overall Length of Casing String, m         145.0           Meters up from K.B. (Subtract)         N/A         0.00           Setting Depth:         Log         m Driller         145.0mKB m Tally         145.0           Shoe Joint:         Overall         Subtract         Tally         Tally         Tally         Tally         Tally         Tally         Tally         Tally         No.         Tally         No.         Tally         No.         Tally         No.         No. <td></td> <td></td> <td></td> <td>. m</td> <td>•</td> <td>Britania in the second /td> <td>**************************************</td> <td>_ Longur, m</td> <td></td> <td></td> <td></td>				. m	•	Britania in the second	**************************************	_ Longur, m							
Meters up from K.B. (Subtract)         N/A         0.00           Setting Depth:         Log         m Driller         145.0mKB m Tally         145.0           Shoe Joint:         Overall         Subtract         Subtract         Image: Common Tally         Image: Common Tally <td></td> <td>•</td> <td>,</td> <td>-</td> <td>0.00111</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		•	,	-	0.00111										
Setting Depth: Log m Driller 145.0mKB m Tally 145.0 Shoe Joint: Overall Subtract Float Collar: Landed at m Tally K.B. to Casing Flg. 5.11 m Cut Off 1.3 m  CENTRALIZERS Make Nil No. Make Nil No.  Positions Positions  No. of Joints Welded Joints 1,2,3.  Remarks Casing head is a Crown FJ - 139.7 X 177.8m X 14mpa  Operator Delpet Resources Ltd.															
Shoe Joint: Overall Subtract Float Collar: Landed at m Tally K.B. to Casing Flg. 5.11 m Cut Off 1.3 m  CENTRALIZERS SCRATCHERS Make Nil No. Make Nil No.  Positions Positions  No. of Joints Welded Joints 1,2,3.  Remarks  Casing head is a Crown FJ - 139.7 X 177.8m X 14mpa  Operator Delpet Resources Ltd.		,	•		m	Driller	145 0mKB	m	Tally						
Float Collar:			-					, 111	Tany		145.0				
K.B. to Casing Flg. 5.11 m Cut Off 1.3 m  CENTRALIZERS SCRATCHERS Make Nil No. Make Nil No.  Positions Positions  No. of Joints Welded Joints 1,2,3.  Remarks Casing head is a Crown FJ - 139.7 X 177.8m X 14mpa  Operator Delpet Resources Ltd.				***************************************		m									
CENTRALIZERS  Make  Nil  No.  Make  Nil  No.  Positions  No. of Joints Welded  Joints 1,2,3.  Remarks  Casing head is a Crown FJ - 139.7 X 177.8m X 14mpa  Operator  Delpet Resources Ltd.					5 11		·	W	. 13	l					
Make Nil No. Make Nil No.  Positions Positions  No. of Joints Welded Joints 1,2,3.  Remarks  Casing head is a Crown FJ - 139.7 X 177.8m X 14mpa  Operator Delpet Resources Ltd.			;		0.11		_ 00( 0)1		1.0	111					
No. of Joints Welded Joints 1,2,3.  Remarks Casing head is a Crown FJ - 139.7 X 177.8m X 14mpa  Operator Delpet Resources Ltd.		IZERS	Nil	No.	<b>Parking Street</b>			IERS	Nii	. No					
No. of Joints Welded Joints 1,2,3.  Remarks Casing head is a Crown FJ - 139.7 X 177.8m X 14mpa  Operator Delpet Resources Ltd.	Positions	****		•			Positions		**************************************						
Casing head is a Crown FJ - 139.7 X 177.8m X 14mpa  Operator Delpet Resources Ltd.							1 03100113				78-10-10-10-10-10-10-10-10-10-10-10-10-10-				
Remarks  Casing head is a Crown FJ - 139.7 X 177.8m X 14mpa  Operator  Delpet Resources Ltd.		·····	***************************************	~~~	······································				····						
Remarks  Casing head is a Crown FJ - 139.7 X 177.8m X 14mpa  Operator  Delpet Resources Ltd.				<del></del>			***			<del></del>					
Casing head is a Crown FJ - 139.7 X 177.8m X 14mpa  Operator Delpet Resources Ltd.  Agent of Operator Panald Panager	No. of Join	ts Welded	Joints 1,2,3	3.			- William Wood of the American	***************************************		-					
Casing head is a Crown FJ - 139.7 X 177.8m X 14mpa  Operator Delpet Resources Ltd.  Agent of Operator Panald Panager	<del></del>						***************************************		-	<del>*************************************</del>	MANAGEMENT OF THE PARTY OF THE				
Operator Delpet Resources Ltd.  Agent of Operator Repaid Ranger	Remarks														
Agent of Operator Panald Panager	***************************************	Casing he	ad is a Crow	/n FJ - '	139.7 X	177.8m	X 14mpa								
Agent of Operator Panald Panager	-														
Agent of Operator Ronald Ranger	Operator		Delpet Re	source	s Ltd.				_						
	Agent of O	perator	Ronald Ra	inger					_		46				

# WELLCO PIPE TALLY SHEET

WELL NAM	1E:	Delpe	t Vinla	ınd Big Spr	ing #1					
	10,000	-					Pa Da		1 <b>of</b> 6-17	1
Size		140	mm	Wt.		25 kg/m	1	Grade	E (N-80	Equivalent)
Coupling	lr	nternal Flush		hread	Buttre		-	of String	Surface Casing	
Tallied By		on Ranger a							(Thds C	Off)
	Jt.	Length	Jt.	Length	Jt.	Length	Jt.	Length	Jt.	Length
	1	2.90	21	3.05	41	3.05	61		81	
	2	3.05	22	3.05	42	3.05	62		82	
	3	3.05	23	3.05	43	3.05	63		83	*
	$\frac{3}{4}$	3.05	24	3.05	44	3.05	64		84	
	5	3.05	25	3.05	45	3.05	65		85	
	6	3.05	26	3.05	46	3.05	66		86	
	$\frac{3}{7}$	3.05	27	3.05	47	1.50	67	•	87	
	<del></del> 8	3.05	28	3.05	48		68		88	•
	9	3.05	29	3.05	49	•	69	•	89	•
	10	3.05	30	3.05	50		70	•	90	
	A	30.35	С	30.50	E	19.80	G	•	l	
	44	2 05	24	3.05	51		71		91	
	11 12	3.05	31 32	3.05	52		72	•	92	•
	13	3.05	33	3.05	53		73		93	•
		3.05	34	3.05	54	•	74		94	•
	14		35	3.05	55	*	75		95	•
	15	3.05	36		56		76	•	96	*
	16	3.05		3.05		•	77	•	97	·
	17	3.05	37	3.05	57 58		78	•	98	
	18	3.05	38 39	3.05	59	+	79	*	99	•
	19	3.05	40	3.05	60	•	80		100	•
	20 B	30.50	D	30.50	F	•	H		J	•
	Brou	Page Tot ght Forward Grand Total	al d	141 . 65	7					
Remarks		4 Joints Dan 1 X 1.5m, Pւ 2 X 0.75m, F	ıp Join							

Supervisor Ronald Ranger



# WELLCO RUNNING AND CEMENTING

WELL NAME:	Delpet Vin	land Big	Springs	#1			
Surface Casing	O.D. <u>1</u>	40mm			Date	97-06-17	
K.B. Elevations	The second secon	44.5mKB		K.B. Csg.	. Flge.	-	
Total Depth	M	145.0mKB		-			
Hole Size, mm	148mm	1	*	Casing in Ho	do mm	140mm	
Depth, m	145mKB			Depth Set, m		145mKB	
	1			popin coq	•	1 POTTICE	
Mud: Type B.O.P.'s	Water/Polmer None		Wt.	1000kg/m3	Visc	34s/l	W.L.
RUNNING:							
Power Tongs	Rig Tongs						
•	1500 FT LBS	kg/m	Nom		kg/m	_	
Time Pipe started	1030 HRS	Time on E		1200 HRS	Time Cir		40 min.
Fill-up Points		Btm. By C	Casing	145mKB	Up from	ı K.B.	-3.65m
Remarks			<del>,</del>		·····		
Cmt. Co. Rig Pump Types & Quantities		Operator 680 kg., Typ	Crew be A, c/w 3	% CaCl2	Time on Lo	ocation	
Flush ahead	1.0m3	of	Water	Mixing: Sta	rt / Finish	14:00 to 14	35 hrs
Slurry Wt.		Calc. Disp.		Measured I		1.7m3	
Disp.: Start/Finish		•	hrs		1	Water	
Max. Pump Press.		kPa	Bumped	d Pressure	1000 kPa	Times Bu	ımped
Cement Returns:	Yes, 100 litre	S	-	_Float Held		No float	
Work Casing	Rotate		While	Circulating ar	nd Cementi	ng	Yes
Remarks				Ht. to be Co	emented	Surface	m
LANDING:							
Landed @	145 mKB			Date	97-06-17		
Cement String Initia		blocks)	<b>-</b>	3600 daN			•
Weight Landed in S	-			3600 daN	Make	of Bowl	Crown FJ
Nom. Size	5 1/2 X 7 X 2			Series		-	
Slip and Seal Asser Remarks	nbly <u>l</u>	Manual slip	s and prim	ary packoff			
Operator	Delpet Reso	urces Ltd.					
Agent of Operator	Wellco (Ron	Ranger)			-		40

# WELLCO CASING SUMMARY

WELL NAM	ME:	Delpet Vinland Big Spring 1												
Surface Ca	asing		O.D.	114		_mm	Date	97-07-07						
						:								
Jts. on Location	m on Location	Csg. Wt. kg/m	Gr.	Rge.	Thd.	T&C	Make	Jts. Run	Depth Landed m	m Run in Well				
123	369	17	N-80	1	But	Flush	JKS	116	351.8	348				
<u> </u>					<del></del>									
						1								
			ļ											
***************************************						1	<u> </u>							
Shoe:	Make	Nil		Туре			Length, m			0.00				
Collar:							Length, m			0.00				
Landing Joint (when used) Length, m										3.80				
Overall Length of Casing String, m  Meters up from K.B. (Subtract) N/A							<del></del>			351.80				
Setting Der	•	Log	N/A		Dellos					0.00				
Shoe Joint:		Overall	<b>Orbital communication</b>	m	Driller	Subtract	m	Tally		351.80				
Float Collar		Landed at			m	_Gabtract Tally				·				
K.B. to Cas	sing Flg.			4.18		Cut Off	**************************************	1.0	m					
						-	***************************************							
CENTRAL	IZEDO					000470	IEDO							
Make	IZERS	Nil	No.			SCRATCH Make	Nil		No.					
	<del></del>		- 110.			Marc	1 111		- 110.					
Positions			-			Positions			<del>-</del>					
						*****************								
			The state of the s	W		***************************************								
No. of Join	ts Welded	Joints 1,2,	3.											
Remarks	This is a V	V flush joint	casing,	all joints	are 3.0	)m long								
Operator		Delpet Re	source	s Ltd.					and the second depth of th					
Agent of O	Agent of Operator Ronald Ranger							_		(I)				

# WELLCO RUNNING AND CEMENTING

WELL NAME:	Delpet Vi	Delpet Vinland Big Spring #1											
Surface Casing	O.D.	114mm			Date	97-07-07							
K.B. Elevations		44.5mKB		K.B. Cso	g. Flge.	4.1							
Total Depth	***************************************	145.0mKB		<u></u>									
Hole Size, mm	120mKB	1		Çasing in H	ole, mm	114mKB							
Depth, m	352mKB			Depth Set, r		351.8mKB							
			•				· · · · · · · · · · · · · · · · · · ·						
Mud: Type	Water/Polm		Wt.	1000kg/m3	Visc	31s/l	W.L.						
B.O.P.'s	1 - Hydril, 1	- Blind Ram,	1 - 114mn	n Pipe Ram									
RUNNING:													
Power Tongs	Rig Tongs												
Torque Max.	1500 FT	kg/m	•		kg/n								
Time Pipe started	1500 Hours			1730 Hours	<del></del>		30min.						
Fill-up Points		_ Btm. By (	Casing	351.8mKB	_ Up from	ı K.B.	-3.8m						
Remarks													
Cmt. Co. Rig Pump Types & Quantities		Operator 1080kg, Typ	Crew De A, Portla	and, c/w 2% C	_ <b>Time on Lo</b> CaCl2, 5% Na								
Flush ahead	1.0m3	3 of	Water	Mixing: St	art / Finish	17:30 to 18:	00 hrs						
Slurry Wt.		Calc. Disp.		Measured		2.75m3							
Disp.: Start/Finish	•		hrs	Displacing	, Fluid	Water							
Max. Pump Press.		kPa	Bumped	Pressure	2500kPA	Times Bu	mped						
Cement Returns:	Yes, 100 lit	res		_Float Held		No float							
Work Casing	Rotate			Circulating a			Yes						
Remarks	SICHP at 2	2500kPA at 1	9:00 hrs (	08-07-97 SICH									
and the second s				Ht. to be C	emented		m						
LANDING:													
Landed @	351.8mKB			Date	97-07-07								
Cement String Initia	l Weight (les	s blocks)	•	4800 daN	<del></del>								
Weight Landed in S	lips			6300 daN	Make	of Bowl	Crown FJ						
Nom. Size	5 1/2 X 7 X	2000		Series									
Slip and Seal Asser Remarks	nbly	Manual slip	s and prim	ary packoff									
Operator	Delpet Res	sources Ltd.											
Agent of Operator		on Ranger)					411						
-					<del>-</del>								

## 3.17. <u>Deviation Summary</u>:

Depth (mKB)	Deviation (Deg.)
54	0.75
83	0.50
95	0.50
121	0.25
141	0.25
154	0.50
193	0.25
353	0.25
414	1.00
495	0.50
591	1.50
615	0.75
724	1.50
862	2.00
946	3.50
976	3.50
1027	3.50

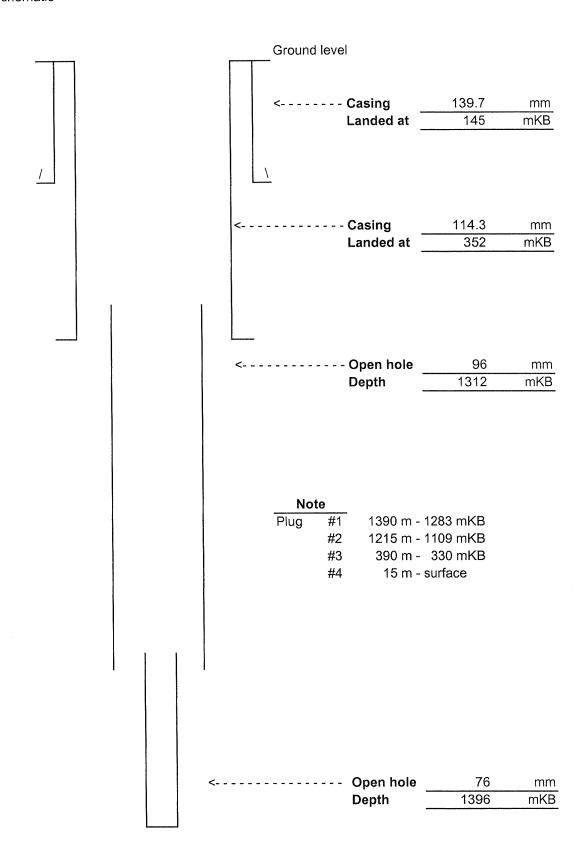


# 3.18

# WELLCO PLUG BACK & ABANDONMENT REPORT

WELL NAME:	Delpe	t Vinland	Big S	pring #1	**************************************				×	
Hole Size mm	96	76			K.B. Elev	<b>'.</b>	44.	5	m	
Depth mKB	1312	1396		T.D.			139		nKB	
		l	I		1		100	- 11	IIIVD	
Casing in Hole	Size	Set at	Top o	f	Fluid in F	lole	Water			
	mm	m		nt mKB	Plug Back String					
Surface Casing	139.7	150	Surfac	е			90mm pipe			
<b>Production Casing</b>	114.1	352	Surfac	e ·			East Coast	Drilling		
	<b>L</b>	· I		······································	AEUB			Diming		
		L., .								
	·····	Plug 1		Plug 2		Plug 3		Plug 4		
Date	······································	97-08-15		97-08-15		97-08-16		97-08-1	7	
Interval - Top mKB		1283		1109		330			0	
- Bottom mKB		1390		1215		390			15	
Formation - Name		March Poin	t	March Poir	nt	March Po	int	Petit Jai	rdin	
- Depth, mKE		272 mKB		272 mKB		272 mKB		Surface	;	
Calipered Hole Size, m	m	96mm / 76n	nm	96mm / 76	mm	96mm		100mm		
(Average)										
Type of Cement				Portland H		Portland F	1	Portalno	t	
Amount of Cement		380 kg		380 kg		380 kg		380 kg		
Additives		none		none		2% CaCl2		3% CaC	212	
m3 of Water Ahead		1		1		1			0.5	
Displacement - m3 water		5.5 m3		4.8 m3		1.5m3		none	<del></del>	
- m3 mud										
Slurry Density		1830 kg/m3		1830	kg/m3	1830 kg/m	13	1830 kg	ı/m3	
Mixing Time - Start		930 hrs		1830 hrs		1800 hrs	}	0730 hr		
- Finish		1000 hrs		1900 hrs		1830 hrs	}	0745 hr		
Displacing Time - Start		1000 hrs		1900 hrs		1830 hrs	}	0745 hr	 S	
- Finish	1	1045 hrs		1945 hrs		1845 hrs	3	0800 hr	 S	
Felt Plug Time		1800 hrs		0500 hrs		0500 hrs		1600 hr		
Felt Plug Depth, mKB		1285mKB		1115 mKB		330 mkB		Surface		
Surface Casing Cut	2.0	m	Below	Grd.	Surfa	ce Plug	none	Sack		
CASING SALVAGE:		Shot off at	· · · · · · · · · · · · · · · · · · ·	m <sup>·</sup>	No. of	f Jts. Recov	/ered	none		
Remarks: 250m pipe or Salvage casi				, all in excel	lent condit	ion (visual)				
							***************************************			
Surface & Intermediate casing cut 2m below										
ground level						w	····			
	117					·				
Operator: Agent of Operator:		Resources L (Ron Range				-	W <i>a</i> l <i>uc</i>		•	

#### 3.19 Well Schematic



3.20. Fluid Samples:

N/A

3.21. <u>Composite Well Record</u>:

See Appendix #2



#### 4.0. Geology:

Items 4.1 to 4.5, see Appendix #2

Note: Item 4.2, Core - currently in storage at Jamie Meyers, Pasadena, Nfld.

709-686-2874 (as per report #86)

Item 4.4, see tab Appendix B of Appendix #2.

#### 5.0. Well Evaluation:

#### 5.1. <u>Downhole Logs Run 97-08-14, Western Atlas Services Ltd:</u>

Induction Electric/Gamma Ray 1387.7m to 352mKB

Compensated Neutron/Gamma Ray 1390.0m to 352mKB

BHC Acoustilog/Gamma Ray 1388.6m to 352mKB

#### 5.2 Other Logs:

Only indication of any hydrocarbon shows in entire wellbore was 287 total units of gas at 1184.39m KB, otherwise remainder of entire well had less than 100 units of background gas.

No actual log is available.

#### 5.3 Synthelic Susmograms

BHC Acoustilog provided with final well report, no additional processing was performed pertaining to seismic coorelation.

#### 5.4 to 5.7.

Not Applicable



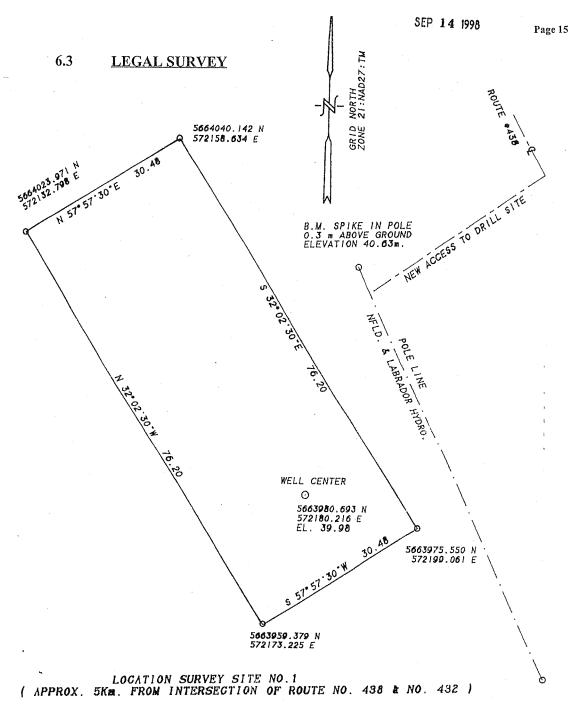
- 6.0. <u>Other</u>:
- 6.1. Mud Logger Report:

No actual mud logging was carried out.

6.2. <u>Deviation Survey</u>:

(See item: 3.17, page 9)





NOTE: THIS WELL IS AT LEAST 150 m. FROM A WATER BODY COORDINATES & BEARINGS: REFERRED TO NORTH AMERICAN DATUM 27 TRANSVERSE MERCATOR PROJECTION: ESTABLISHED USING LEICA 399 DUAL FREQUENCY GPS RECEIVERS: FROM 101 ORDER GEODETIC GPS STATION NO. 89F340

ELEVATIONS ESTABLISHED BY A DOUBLE RUN DIFFERENTIAL LEVEL LOOP FROM GEODETIC SURVEY DIVISION VERTICAL CONTROL MONUMENT NUMBER 89F337



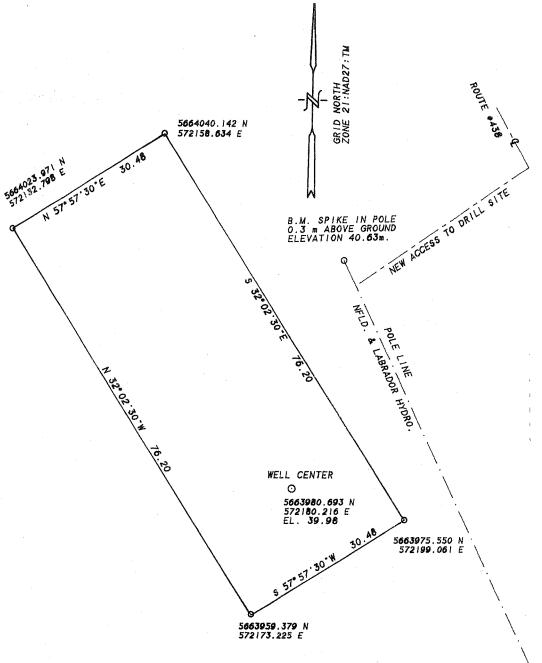
C.I.B. CAPPED IRON BAR
TREE LINE
CENTER LINE
ALL DISTANCES ARE IN METERS
ALL DISTANCES HORIZONTAL GROUND

DATES OF FIELDWORK

DIFF. LEVEL RUN MAY 6th - MAY 8th: 1997 WELL CENTER COORDINATES SEPTEMBER 5: 1997

GERARD BUTLER N.L.S.
MEMBER OF : ASSOCIATION OF HEEFOUNDLAND LAND SURVEYORS

SCALE | : 500 DATE SEPTEMBER 6: 1997 DRG. MO. 97-99107



LOCATION SURVEY SITE NO.1 (APPROX. 5Km. FROM INTERSECTION OF ROUTE NO. 438 & NO. 432 )

NOTE: THIS WELL IS AT LEAST 150 m. FROM A WATER BODY COORDINATES & BEARINGS: REFERRED TO NORTH AMERICAN DATUM 27 TRANSVERSE MERCATOR PROJECTION: ESTABLISHED USING LEICA 399 DUAL FREQUENCY GPS RECEIVERS: FROM 1st ORDER GEODETIC GPS STATION NO. 89F340

ELEVATIONS ESTABLISHED BY A DOUBLE RUN DIFFERENTIAL LEVEL LOOP FROM GEODETIC SURVEY DIVISION VERTICAL CONTROL MONUMENT NUMBER 89F337

COL NEARON S

C.I.B. CAPPED IRON BAR
TREE LINE
CENTER LINE
ALL DISTANCES ARE IN METERS
ALL DISTANCES HORIZONTAL GROUND

DATES OF FIELDWORK

DIFF. LEVEL RUN MAY 6th - MAY 6th: 1997 WELL CENTER COORDINATES SEPTEMBER 5: 1997

GERARD BUTLER N.L.S.
MEMBER OF: ASSOCIATION OF NEWFOUNDLAND LAND SURVEYORS

SCALE | : 500 DATE SEPTEMBER 6: 1997 DRG. NO. 97-99107 O

#### 6.4. Core Photos:

N/A

## 6.5. <u>Core Analysis</u>:

See Appendix #2

#### 6.6. to 6.7

Not Applicable.

## 6.8. Geochemical Report:

No geochemical report is available.

## 6.9. <u>Biostratigraphical Report:</u>

See Appendix A of Appendix 2.

## 6.10. Petrological Report:

No petrological analysis was performed on core sections.

## 6.11. Palynological Report:

See Appendix A of Appendix 2.

## 6.12. Paleontological Report:

See Appendix A of Appendix 2.



WELL NAM	ΛE:		Delpet Vinla	Delpet Vinland Big Spring #1											
Date	•		97-05-26			Da	ıy No.		01	***************************************	***************************************				
Depth (080	0 hrs)		8 mKB			24 Hr. Pro	gress		8 mKB						
Activity at	Repo	rt Time	Drilling with 1	39.7mm casin	ıg	-									
Rig & Rig	No.		East Coast R	Rig #2	Grd. Elev.	0			K.B. Elev.		0				
Directions															
		Orilling Flui			Bit Data		Time An	alys	s			Hours			
	roperti	es	Additives	Number	1A				Drilling	(114.3	mm	10.0			
WT	1000			Size	96				Trips						
VIS	28			Type	JKS-7			3	Deviation Su	rvey					
WL				Serial No.	3352				Rig Service			0.25			
CAKE				Jets	Open			5	Circ. & Cond	. Mud					
рН				Out At	8			6	Repair Rig						
GELS				Hours	2			7	Run Casing a	& Cmtg		4.50			
SOLIDS				M/HR	4			8	BOP Handlin	ig & Tst	g.				
PV				Cum. M	8			9	Logging						
YP	<u> </u>			Cum. Hrs.	2			10	Coring			7.25			
% OIL		***************************************		Cond. T/B/G	98%			11	1 Formation Tstg.						
% SAND				WT. on Bit	35-40			12	12 Reaming						
CL				RPM	750			13	3 Fishing			***************************************			
	1	Deviations	5	Stroke				14	Other Act.			2.0			
Depth	Deg.	Depth	Degree	Liner					Total Hours			24.0			
8				l/m	45		Other		Rig up & safe	ety mee	ting	2.0			
				Ann Vel											
				Surf. Press.	69										
DST No.	<u> </u>		Formation	J.,,,,	Interval		То		!	Times	: IF	L			
ISI			- FF	FSI	-	Press.				-	НP				
PF			IFP	- FFP	WWW	ISIP			FSIP	_					
ВНТ	***************************************		Choke	Results			emonscomment with the second		•	AVERAGE		•			
	114.3	mm Casino	Shoe # 4662	_											
					· · · · · · · · · · · · · · · · · · ·										
Weather		O/C		Temp.	2 C	Roads	Good			· · · · · · · · · · · · · · · · · · ·					
Remarks: Sar	nple, Co	ore Desc, Top:	s, Tests, Logs, Ele	evations, Casing, (	Cementing, So	lids Control			Drill	String	Seq	uence			
***************************************	i	Move in ar	nd rig up East	Coast Drilling	Rig # 2.				Tool	Size		Length			
-				at 10:00am, M		7.			Core Bit	1	96	0.25			
				ing 114.3mm c			to 5.0m.		Drill Rod		89	7.75			
				ecover overbu											
				m. Cut 96mm								************			
			ore (cut 2m, F						***************************************						
NOTE:		Ton of rote	ary head (KD)	to ground 4.15	5m	.,,,,,,			<b></b>	-					
MOIL.				on, 397 joints (			<u></u>			+		<del> </del>			
RONCOLLANDON	****************	Dim bibe (	iou) on localic	71, 007 Joints (											
									Total Depth			8.0			
***************************************							,		String Wt.			70#			
Daily Cos	t:	########	# Cum.	: \$71,648.00	)	Reported	By:	***************************************	Colin Crane	)					



Delpet Vinland Big Spring # 1

Date			97-05-27			<b>Day No</b> . 02					
Depth (080	0 hrs)		8.0mKB (96n	nm)		_24 Hr. Pro	gress	Nil			
Activity at	Repo	rt Time	Drilling 114.3	lmm							
Rig & Rig !	No.		East Coast #	2	Grd. Elev.			K.B. Elev.			
								•			
		Prilling Flui	id		Bit Data		Time Analys	is		Hours	
	operti	es	Additives	Number	1A			Drilling		23.25	
WT	1000			Size	96			Trips		0.50	
VIS	28			Туре	JKS-7		3	Deviation Su	rvey		
WL				Serial No.	3352			Rig Service		0.25	
CAKE				Jets	Open		5	Circ. & Cond	. Mud		
рН				Out At	8		6	Repair Rig			
GELS				Hours	2		7	Run Casing 8	& Cmtg.		
SOLIDS				M/HR	4		8	BOP Handlin	OP Handling & Tstg.		
PV				Cum. M	8		9	Logging			
YP				Cum. Hrs.	2		10	Coring			
% OIL				Cond. T/B/G	97%		11	Formation Ts	itg.		
% SAND				WT. on Bit	35-40		12	Reaming			
CL				RPM	750		13	Fishing			
		Deviations	3	Stroke			14	Other Act.			
Depth	Deg.	Depth	Degree	Liner				Total Hours		24.0	
8	1/2			I/m	45		Other				
				Ann Vel			1		<del></del>		
***************************************			.,	Surf. Press.	69						
DST No.	1	I	Formation		Interval		То	<del>!</del>	Times: IF	<u>.</u>	
ISI			- FF	FSI	-	Press.:	: IHP	<del></del>	FHP		
PF			IFP	- FFP	Esternic de la constante de la	- ISIP		FSIP	-		
BHT			Choke	Results		<del></del>	p	-		-	
	139.7	mm Casino	Shoe # 2V 8					· · · · · · · · · · · · · · · · · · ·			
							······································				
Weather		Snowing		Temp.	2 C	Roads	Slippery				
	nole. Co		s. Tests. Logs. Ele	evations, Casing, 0	Cementing, So			Drill	String Seq	uence	
	.,,			hole over 114				Tool	Size	Length	
				ks & boulders				Core Bit	96		
-				14.3 casings.				Drill Rod	89	<del>                                     </del>	
				m to 5.75mKB					1		
				nm hole to 6mh							
		~~~~	clean 96mm								
		- roun and	0.00								
			· · · · · · · · · · · · · · · · · · ·	.,,	AND THE PROPERTY OF THE PARTY O			<del> </del>		<del> </del>	
<u> </u>					<del></del>			<del>                                     </del>		+	
							<del> </del>	Total Depth	<u> </u>	8.0	
*		······································						String Wt.		1 0.0	
Daily Cost		\$5,710.00	Cum.	: \$77,358.00	}	Reported	l Rv:	Colin Crane			
Daily Cost		φυ, ε τυ.υι	J Guill.	. <i>ψει</i> ,556.00	,	reported	≀ шу.	CONTI CIGNIC			



WELL NAME:		Delpet Vinla	Delpet Vinland Big Spring # 1									
Date	•		97-05-28	373		_	y No.		03			
Depth (080	0 hrs)		31mKB			_24 Hr. Pro	gress		23m			
Activity at	Repo	rt Time	Drilling 96mm	n								
Rig & Rig I	۷o.		East Coast #	2	Grd. Elev.				K.B. Elev.		***************************************	
		\		T	Did Data		Time An	ا ماداه			Hours	
		rilling Fl	Additives	Number	Bit Data	1	Time An		S Drilling		14.0	
	operti 1000	es	Additives	Number Size	1-96 96				Trips		1.75	
WT VIS	28				JKS-7		<b>-</b>		Deviation Sur	3/07	1.75	
WL	28			Type Serial No.	3352	<b></b>	<u> </u>		Rig Service	vey		
CAKE				Jets	Open		-		Circ. & Cond.	Mud		
				Out At	In	-			Repair Rig	ivida		
pH GELS				Hours	14		<u> </u>		Run Casing 8	2. Cmta	1.75	
SOLIDS				M/HR	1.64	-			BOP Handlin		1.70	
PV				Cum. M	31.0				Logging	g a raig.		
YP				Cum. Hrs.	22.75				Coring		2.0	
% OIL				Cond. T/B/G	Run		<del></del>		Formation Ts	ta.	2.0	
% SAND				WT. on Bit	3115		+		Reaming	ng.		
CL % SAND				RPM	6-800				Fishing			
<u>UL</u>	L	Deviation		Stroke	0-000				Other Act.		4.5	
Depth	Dog			Liner					Total Hours		24.0	
25	Deg. 1/8	Depth	Degree	I/m	45		Other		Fill Mud Tks		4.5	
	1/0			Ann Vel	1		Other		I III Waa TKS		7.0	
		ļ		Surf. Press.	69		<del></del>					
DST No.	<u>L</u>	J	Formation	Oui1. 1 1033.	Interval		To		<u> </u>	Times: IF	<u> </u>	
ISI			FF	FSI	-	Press.				FHP		
PF			— iFP ——	- FFP	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	- ISIP			FSIP	•		
BHT			Choke	_ Results					- ' 0		•	
DITT	***************************************				PARTICIO DE LA CONTRACTION DEL CONTRACTION DE LA CONTRACTION DEL CONTRACTION DE LA C							
***												
Weather		Clear & S	Sunny	Temp.	8 C	Roads	Good					
Remarks: Sar	nple, Co		ops, Tests, Logs, El	evations, Casing,	Cementing, So	lids Control			Drill	String Sequ	uence	
			3mm Casing, F						Tool	Size	Length	
		Run and	set 114.3mm (	Casing at 6mKl	3.				Bit	96.0	0.11	
,		Fill circu	lating tank with	fresh water, co	ontinue				Shell	93.0	0.14	
***************************************		drilling, o	clean 96mm hol	e to 8mKB.					BBI	90.0	3.75	
		Pick up a	and make up 96	mm Core bbl	assembly, c	ut			Drill Rod	88.9	27.00	
		96mm co	ore 8m to 31m (	cut 23m, rec. 2	23m)							
•												
			n Casing at 5.7									
		114.3mn	n Casing at 6.0	Um								
		.,										
										<u> </u>		
**************************************												
									Total Depth		31.00	
								String Wt. 334 daN				
Daily Cos	t:	\$5,710.	.00 <b>Cum</b>	.: \$83,068.00	)	Reporte	d By:		Colin Crane			

WELL NAME: Delpet Vinland Big Spring # 1

Date			97-05-29				y No.	04		#-000000000000000000000 <del>000000000000000</del>
Depth (080	0 hrs	)	62mKB			_24 Hr. Pro	gress	31m		
Activity at	Repo	rt Time	Trip for bit #:							
Rig & Rig I	No.		East Coast #	‡ 2	Grd. Elev.	,		K.B. Elev.		
	Г	Orilling Flu	uid		Bit Data		Time Analys	İs	· · · · · · · · · · · · · · · · · · ·	Hours
Pı	operti		Additives	Number	1-96			Drilling		22
WT	1000		7.00	Size	96	1	<u> </u>	Trips		1.5
VIS	28			Туре	JKS-7			Deviation Sur	vey	
WL				Serial No.	3352			Rig Service		0.5
CAKE				Jets	Open			Circ. & Cond.	Mud	<del></del>
pH				Out At	62		6	Repair Rig		
GELS		·····		Hours	22			Run Casing 8	& Cmtg.	
SOLIDS				M/HR	1.41			BOP Handlin		
PV	<del> </del>			Cum. M	62			Logging		A MOUTE A LANGE
YP	<b></b>			Cum. Hrs.	44.75	1		Coring		
% OIL	İ			Cond. T/B/G	50%			Formation Ts	itg.	
% SAND		. ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		WT. on Bit	3115			Reaming		
CL				RPM	6-800			Fishing		
	I	Deviation	ns	Stroke				Other Act.		
Depth	Deg.		Degree	Liner				Total Hours		24.0
60				l/m	45		Other			
	`` <u> </u>			Ann Vel						
	-			Surf. Press.	69					
DST No.	1	J	Formation		Interval		То	.t	Times: IF	<u> </u>
ISI			FF	FSI	•	Press.	- : IHP	MARCON CO.	- FHP	
PF	D4444		IFP	FFP		- ISIP		FSIP	•	
BHT	••••		Choke	Results			•			•
						M				
Weather		Over Cas	st	Temp.	2 C	Roads	Good		<del> </del>	
	nple, C		pps, Tests, Logs, E		Cementing, Sc	lids Control		Drill	String Sequ	uence
			Drilling 96mm					Tool	Size	Length
			n, Recover 31m			terror and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s		Csg	139,7	
			ice & Survey a					Csg	114.3	6.0
			bottom up, trip					Bit	96.0	0.11
						,,		R/Shell	93.0	0.14
								Core BBL	90.0	3.75
NOVOLATION				***************************************	· · · · · · · · · · · · · · · · · · ·			Drill Rod	88.9	58.00
		ALLOW MANAGEMENT AND A STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF								
								Total Depth		62.0
								String Wt.		648
Daily Cos	t:	\$5,710.	00 Cum	n.: \$88,778.00		Reported	d By:	Colin Crane	)	
_u, 000		<b>40,1.70</b>		+,		•	-		,	



WELL NAME:	Delpet Vinla	Delpet Vinland Big Spring # 1										
Date			97-05-30	311.32-10-12-13-13-13-13-13-13-13-13-13-13-13-13-13-		Da	ay No.		05			
Depth (080	0 hrs)		87mkb			24 Hr. Pr	ogress	•	25m			
Activity at	Repoi	rt Time	Trip o	ut with bit #2				,				
Rig & Rig I	No.		East	Coast # 2	Grd. Elev.				K.B. Elev.			
		Satillia a Fla			Dit Data		Times Au				Uarrea	
	operti	Prilling Flu	Additives	Number	Bit Data 2-96		Time An		Drilling		Hours 21.5	
WT	1000	es	Additives	Size	96				Trips		2.0	
VIS	28			Type	JKS-7				Deviation Su	ID/OV	2.0	
WL	20			Serial No.	3355				Rig Service	ii vey	0.5	
CAKE				Jets	Open				Circ. & Conc	Mud	0.0	
		·····		Out At	87		-		Repair Rig	i. Widd		
pH GELS				Hours	21.5		-		Run Casing	8. Crota	<del></del>	
SOLIDS				M/HR	1.15				BOP Handlir			
PV				Cum. M	25				Logging	ig & i sig.		
YP				Cum. Hrs.	21.5							
% OIL				Cond. T/B/G				10 Coring 11 Formation Tstg.				
% SAND				WT. on Bit	In 3100					sig.		
				RPM	6-900				Fishing	Reaming		
CL	<u> </u>	Davidation			0-900				Other Act.			
Davidle		Deviation		Stroke		_		14	Total Hours		24.0	
Depth	40	Depth	Degree	Liner	A.F.		Other		Total Hours		24.0	
85	1/8			/m	45		Other					
	ļ	<u> </u>		Ann Vel	69		1					
DOT No.	<u> </u>			Surf. Press.	L		To		<u> </u>	Timon IF	<u> </u>	
DST No.		×	Formation	FSI	Interval	Press				_Times: IF FHP		
ISI			FF 	_			101		FSIP			
PF			The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	FFP		_ ISIP			- 1517	<u>w</u>	-	
BHT			Choke	Results					.,			
Weather		Sunny		Temp.	7 C	Roads	Good				N. 1	
Remarks: Sar	nple, Co			levations, Casing, (	Cementing, So	olids Control				String Seq		
			ith bit #2, breal						Tool	Size	Length	
			continue coring						Csg	139.7		
		Recover	4m, rig service	, core 66m to 7	'6m,				Csg	114.3	6.0	
		recover 1	I0m, rig service	e, core					Bit	96.0	<u> </u>	
WORKER TO THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PART		76m to 8	7m, recover 11	m.					R/Shell	93.0	0.14	
	***************************************								Core BBL	90.0	3.75	
									Drill Rod	88.9	83.00	
							····					
				NE.				<del></del>	Total Depth	<u> </u>	87	
<del>Carlo automore</del>									String Wt.		950 daN	
Daily Cos	t:	\$5,710.0	00 Cum	.: \$94,488.00		Reporte	d By:		Colin Cran	9		



Delpet Vinland Big Spring # 1

Date			97-05-31				y No.		)6	
Depth (08	00 hrs)	)	115mKB			24 Hr. Pro	gress	28	m	
Activity at	Repo	rt Time	Drillin	ig 96mm hole.		_				
Rig & Rig	No.	Management	East	Coast # 2	Grd. Elev.			K.B. Elev.		
		Orilling Fl	uid		Bit Data		Time Anal	veie		Hours
			Additives	Number	2-96	T	Time Anai	1 Drilling		19.5
	roperti		Additives	Size	96			2 Trips		4.0
WT	1000				JKS-7			3 Deviation S	Survey	7.0
VIS	28			Type Serial No.	3355			4 Rig Service		0.5
WL					1			5 Circ. & Coi		0.0
CAKE	<del> </del>			Jets	Open In		<del> </del>	6 Repair Rig		
pH				Out At		<u> </u>		7 Run Casin		
GELS				Hours	19.5					
SOLIDS				M/HR	1.43			8 BOP Hand	iing & rstg.	
PV				Cum. M	53			9 Logging		
ΥP				Cum. Hrs.	41			10 Coring	<b>T</b> (	
% OIL				Cond. T/B/G	Run			11 Formation	istg.	
% SAND				WT. on Bit	3100		1	12 Reaming		
CL				RPM	6-900			13 Fishing		
		Deviatio	ns	Stroke				14 Other Act.		
Depth	Deg.	Depth	Degree	Liner				Total Hour	'S	24.0
11:	5 1/2			I/m	45		Other			
				Ann Vel						
				Surf. Press.	69					
DST No.			Formation		Interval		То		Times: IF	
ISI	-		FF	FSI	-	Press.	: IHP		FHP	
PF			IFP	FFP	Oliver	ISIP		FSIP		
BHT		· · · · · · · · · · · · · · · · · · ·	Choke	Results						-
		·		estayes	***************************************					
Weather		Partly Cl	oudy	Temp.	7 C	Roads	Good			
Remarks: Sa	ample, C	ore Desc, To	ops, Tests, Logs, E	levations, Casing,	Cementing, So	olids Control		Dr	ill String Seq	uence
		POOH, v	with core BBL,	recover jamme	d core,			Tool	Size	Length
		Run bac	k in with bit #2	(approximately	30% wear)			Csg	139.7	5.74
				ervice cut and re				Csg	114.3	6.0
		96mm co	ore 87m to 103	m (rec 16m).	***************************************			Bit	96.0	0.11
				oring 96mm to	115m, reco	ver 12m.		ВНА	93-90.0	3.89
			, , , , , , , , , , , , , , , , , , , ,			1.7.1.		Drill Rod		111.00
								Total Dep	<u>                                     </u>	115.0
		Market III						String Wt.		daN
Daily Cos	st:	\$5,710.	.00 <b>Cu</b> n	n.: \$100,198.00	)	Reported	d By:	Colin Cra		



Delpet Vinland Big Spring # 1

			97-06-01		iy No.		07					
800 hrs	ırs)		145mKB			24 Hr. Pro	gress		30m			
at Repo	port	Time	Drillin	g 96mm hole.								
g No.			East (	Coast # 2	Grd. Elev.				K.B. Elev.			
							1					
		illing Flu			Bit Data	T	Time An				Hours	
Proper		3	Additives	Number	2-96	3-96			Drilling		19.0	
1000				Size	96	96			Trips		4.5	
28	28			Туре	JKS-7	JKS-7			Deviation Su	rvey		
				Serial No.	3355	3350			Rig Service		0.5	
				Jets	Open	Open			Circ. & Cond	. Mud		
				Out At	115	ln			Repair Rig			
				Hours	19.5	19			Run Casing 8			
				M/HR	1.43	1.58			BOP Handlin	ig & Tstg.		
				Cum. M	53	30			Logging		*	
				Cum. Hrs.	41	19			Coring			
				Cond. T/B/G					Formation Ts	stg.		
				WT. on Bit	3100	3100			Reaming			
				RPM	6-900	6-900			Fishing			
	D	)eviatio	ns	Stroke				14	Other Act.			
Deg	eg. [	Depth	Degree	Liner					Total Hours		24.0	
				I/m	45	45	Other					
				Ann Vel								
		····		Surf. Press.	69	70						
	······		Formation	1	Interval	1	То			Times: IF		
			FF	FSI	-	Press.	_ .: IHP			FHP		
			<sub>IFP</sub>	FFP		ISIP			FSIP	<b></b>	•	
			Choke	Results					-		•	
•		Over Cas	st	Temp.	6 C	Roads	Good					
			pps, Tests, Logs, E		Cementing, Sol	lids Control	***************************************		Drill	String Seq	uence	
<b>-</b>			ith bit # 2, bit d						Tool	Size	Length	
			ivider, run in w						Csg	139.7	5.74	
			ce, cut core, 9		5m				Csg	114.3	6.0	
			20m, rig service				West of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second seco		Bit	96.0		
			35m to 145m,						ВНА	93-90.0	3.89	
		30111111, 1	oom to Trom,			······································			Drill Rod	88.9		
····					· · · · · · · · · · · · · · · · · · ·		······································		(47 joints)		1	
									1 10 11 10 11		<b> </b>	
		· · · · · · · · · · · · · · · · · · ·									1	
										<u> </u>	-	
	····						Marin Marin Tolking		Total Depth	14	1  5.00mKl	
							***************************************		String Wt.			
ost:		\$5,710	00 <b>C</b> um	n.: \$105.908.00	0	Reporte	d By:		Colin Crane	9		
ost:		\$5,710.	00 <b>Cu</b> m	n.: \$105,908.00	0	Reporte	d By:		String Wt.	- Introduction	14	



Depth (0800 hrs)   26mm+154mKB   Ream to 148mm   Ream to 148	WELL NAME:		and Big Spring									
Ream to 148mm   East Coast # 2   Grd. Elev.   K.B. Elev.	Date						Da	y No.		80		
Drilling Fluid	Depth (080	00 hrs	)	96mm-154m	ıKB		24 Hr. Pro	ogress		9m		
Drilling Fluid   Bit Data	Activity at	Repo	rt Time	Ream to 148	3mm		-		•			
Properties	Rig & Rig	No.		East Coast #	<b>#</b> 2	Grd. Elev.				K.B. Elev.		
Properties								<u></u>				
MT					1		1 110					
VIS				Additives								
Serial No.   Serial No.   3350   2U8394   4   Rig Service   0.5								<b></b>			5	<u>).U</u>
Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   D		28						<del> </del>				
Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description		ļ					<del>.  </del>					J.5 
SELS   Hours   5.75   11.75   7   Run Casing & Cmtg.   1.00		ļ	-,									
SOLIDS   M/HR		<u> </u>										
PV												.00
YP						1					ig.	
Cond. T/B/G   10%   Run   11   Formation Tstg.		<u> </u>										
W.   W.   W.   W.   W.   W.   W.   W.		<u> </u>										
CL							<del></del>					
Depth   Deg.   Depth   Degree   Liner   Total Hours   24.0	% SAND				WT. on Bit	3100	890				11	1.75
Depth Deg. Depth Degree Liner   Total Hours   24.0    154 1/2	CL				RPM	6-900	2-400		13	Fishing		
Suff. Press.   To   Go   Suff. Press.   To   Go   Suff. Press.   To   Go   Times: IF			Deviation	ns	Stroke				14	Other Act.		
154   1/2	Depth	Deg.	Depth	Degree	Liner					Total Hours	2	4.0
Surf. Press.   70   60	154				l/m	45	45	Other				
DST No. Formation Interval To Times: IF ISI FF FSI Press.: IHP ISIP FFP ISIP FSIP ISIP FSIP ISIP FSIP ISIP FSIP ISIP FSIP ISIP FSIP ISIP FSIP ISIP FSIP ISIP FSIP ISIP FSIP ISIP FSIP ISIP FSIP ISIP FSIP ISIP FSIP ISIP FSIP ISIP FSIP ISIP FSIP ISIP FSIP ISIP FSIP ISIP FSIP ISIP FSIP ISIP FSIP ISIP FSIP ISIP FSIP ISIP FSIP ISIP FSIP ISIP FSIP ISIP FSIP ISIP FSIP ISIP FSIP ISIP FSIP ISIP FSIP ISIP FSIP ISIP FSIP ISIP FSIP ISIP FSIP ISIP FSIP ISIP FSIP ISIP I	***************************************	<b>-</b>			Ann Vel							
DST No. Formation Interval To Times: IF ISI FF FSI Press.: IHP FHP FHP ISIP FSIP ISIP FSIP ISIP FSIP ISIP FSIP ISIP FSIP ISIP FSIP ISIP FSIP F	***************************************				Surf. Press.	70	60					
ISI FF FSI PRESI: IHP FSIP  IFP FFP ISIP  Weather Rain Temp. 2 C Roads Slippery  Remarks: Sample, Core Desc, Tops, Tests, Logs, Elevations, Casing, Cementing, Solids Control  Continue coring to 152m, recover 7m, rig service, cut and recover 2m core to 154mKB. POOH with bit #3-96, lay down 50 singles. Rig down flow nipple, lay down 114.3mm casing. Drill 168.3mm casing from surface to 6.79m. Lay down 139.7mm casing.  Ream 148mm hole surface to 12m.  Total Depth 145. String Wt.	DST No.		<u> </u>	Formation		Interval		То		Times	: IF	
Weather Rain Temp. 2 C Roads Slippery  Remarks: Sample, Core Desc, Tops, Tests, Logs, Elevations, Casing, Cementing, Solids Control  Continue coring to 152m, recover 7m, rig service, Cut and recover 2m core to 154mKB. POOH with bit #3-96, lay down 50 singles. Rig down flow nipple, lay down 114.3mm casing. Drill 168.3mm casing from surface to 6.79m. Lay down 139.7mm casing.  Ream 148mm hole surface to 12m.  Total Depth 145.  String Wt.	ISI				FSI	<del>-</del>	Press.	_ : IHP				
Weather Rain Temp. 2 C Roads Slippery  Remarks: Sample, Core Desc, Tops, Tests, Logs, Elevations, Casing, Cementing, Solids Control  Continue coring to 152m, recover 7m, rig service, cut and recover 2m core to 154mKB. POOH with bit #3-96, lay down 50 singles. Rig down flow nipple, lay down 114.3mm casing. Drill 168.3mm casing from surface to 6.79m. Lay down 139.7mm casing.  Ream 148mm hole surface to 12m.  Total Depth 145.  String Wt.	PF			IFP	— FFP						-	
Remarks: Sample, Core Desc, Tops, Tests, Logs, Elevations, Casing, Cementing, Solids Control  Continue coring to 152m, recover 7m, rig service, cut and recover 2m core to 154mKB. POOH with bit  #3-96, lay down 50 singles. Rig down flow nipple, lay down 114.3mm casing. Drill 168.3mm casing from surface to 6.79m. Lay down 139.7mm casing.  Ream 148mm hole surface to 12m.  Total Depth 145.  String Wt.	BHT			Choke	Results		<del>-</del>			-		
Remarks: Sample, Core Desc, Tops, Tests, Logs, Elevations, Casing, Cementing, Solids Control  Continue coring to 152m, recover 7m, rig service, cut and recover 2m core to 154mKB. POOH with bit  #3-96, lay down 50 singles. Rig down flow nipple, lay down 114.3mm casing. Drill 168.3mm casing from surface to 6.79m. Lay down 139.7mm casing.  Ream 148mm hole surface to 12m.  Total Depth 145.  String Wt.				CAL THE ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AN		OUDMANDERS OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE						
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cut and recover 2m core to 154mKB. POOH with bit #3-96, lay down 50 singles. Rig down flow nipple, lay down 114.3mm casing. Drill 168.3mm casing from surface to 6.79m. Lay down 139.7mm casing. Ream 148mm hole surface to 12m.  Total Depth 145. String Wt.						Cementing, Sol	ids Control				Sequen	ce
#3-96, lay down 50 singles. Rig down flow nipple, lay down 114.3mm casing. Drill 168.3mm casing from surface to 6.79m. Lay down 139.7mm casing.  Ream 148mm hole surface to 12m.  Total Depth String Wt.	Continue of	oring	to 152m, r	ecover 7m, rig	service,					Tool Size	Ler	าgth
down 114.3mm casing. Drill 168.3mm casing from surface to 6.79m. Lay down 139.7mm casing. Ream 148mm hole surface to 12m.  Total Depth 145. String Wt.	cut and red	cover	2m core to	154mKB. PO	OH with bit							
surface to 6.79m. Lay down 139.7mm casing.  Ream 148mm hole surface to 12m.  Total Depth 145.  String Wt.	#3-96, lay	down	50 singles	s. Rig down flo	w nipple, lay							
Ream 148mm hole surface to 12m.  Total Depth 145. String Wt.	down 114.	3mm	casing. Di	rill 168.3mm ca	ising from							
Total Depth 145. String Wt.	surface to	6.79m	ı. Lay dov	vn 139.7mm ca	ising.							
Total Depth 145. String Wt.	Ream 148	mm h	ole surface	e to 12m.								
String Wt.				***************************************							***************************************	
String Wt.												
String Wt.			······					······································				
String Wt.							· · · · · · · · · · · · · · · · · · ·					
String Wt.			· · · · · · · · · · · · · · · · · · ·			<u> </u>						
String Wt.								WHISACOTTO TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE				
String Wt.												
String Wt.					······································					Total Depth		145.0
	Daily Cost: \$5.710.00 Cum.: \$111.618.00											



Date	WELL NAME:	Delpet Vinland Big Spring # 1										
Ream to 148mm	Date						Da	y No.		09		
Properties	Depth (080	0 hrs	)	148mm @ 2	1m		24 Hr. Pro	gress	•	9m (148mm)		
Drilling Fluid	• •						-		•		1818-17	*
Properties				East	Coast # 2	Grd. Elev.				K.B. Elev.		
Properties						-						
WT								Time Analy				Hours
VIS   28				Additives								
Serial No.   2U8394   3352   4   Rig Service   0.5											willian .	1.75
Detail		28									vey	
Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   Detail   D					Serial No.							0.5
GELS	CAKE					Ported					Mud	
SOLIDS   M/HR	рН				Out At							
PV												3.0
YP	SOLIDS				M/HR						g & Tstg.	
Moll	PV				Cum. M			<u> </u>				
W. SAND	YP				Cum. Hrs.	23.25	44.75					
RPM	% OIL				Cond. T/B/G	Run					stg.	
Deyth   Deg.   Depth   Degree   Liner   Total Hours   24.0	% SAND	<b></b>			WT. on Bit	1780			12	Reaming		11.5
Depth   Deg. Depth   Degree   Liner	CL				RPM	2-400			13	Fishing		
154   1/2		· · · · · · ·	Deviation	าร	Stroke				14	Other Act.		
154   1/2	Depth	Deg.	Depth	Degree	Liner					Total Hours		24.0
Surf. Press. 69   To Times: IF	154	1/2			l/m	45		Other				
DST No. Formation Interval To Times: IF ISI Press.: IHP FHP FHP ISIP FSIP FSIP FSIP FSIP FSIP FSIP FSI					Ann Vel							
ISI FF FSI Press.: IHP IFP FFP ISIP FSIP  Weather Drizzle W/fog Temp. 2 C Roads Slippery  Remarks: Sample, Core Desc, Tops, Tests, Logs, Elevations, Casing, Cementing, Solids Control  Continue reaming 148mm 12m to 18m, rig service, Tool Size Length pull and lay down 1 damaged joint of 88.9 drill pipe.  Continue drilling 168.3mm casing from 6.79m to 10.25 mKB.  Run in with 148mm reamer and # 1-RR 96mm bit and pilot, Reamer 148.0 0.80 continue reaming 148mm hole from 18m to 20.5m.  Drill Rod 88.9 20.20  Rig service, ream 148mm 20.5m to 21m, shut down to repair rig.  Total Depth 21.0mKB  String Wt. 226 daN					Surf. Press.	69						
PF	DST No.			Formation	1	Interval		То			Times: IF	
Weather Drizzle w/fog Temp. 2 C Roads Slippery  Remarks: Sample, Core Desc, Tops, Tests, Logs, Elevations, Casing, Cementing, Solids Control  Continue reaming 148mm 12m to 18m, rig service, Tool Size Length pull and lay down 1 damaged joint of 88.9 drill pipe.  Continue drilling 168.3mm casing from 6.79m to 10.25 mKB.  Run in with 148mm reamer and # 1-RR 96mm bit and pilot, Reamer 148.0 0.80 continue reaming 148mm hole from 18m to 20.5m.  Rig service, ream 148mm 20.5m to 21m, shut down to repair rig.  Total Depth 21.0mKB String Wt. 226 daN	ISI			FF FF	FSI	<del></del>	Press.	: IHP			FHP	
Weather       Drizzle w/fog       Temp.       2 C       Roads       Slippery         Remarks: Sample, Core Desc, Tops, Tests, Logs, Elevations, Casing, Cementing, Solids Control       Drill String Sequence         Continue reaming 148mm 12m to 18m, rig service, pull and lay down 1 damaged joint of 88.9 drill pipe.       Csg.       168.3       10.25m         Continue drilling 168.3mm casing from 6.79m to 10.25 mKB.       Run in with 148mm reamer and # 1-RR 96mm bit and pilot,       Reamer       148.0       0.80         Continue reaming 148mm hole from 18m to 20.5m.       Drill Rod       88.9       20.20         Rig service, ream 148mm 20.5m to 21m, shut down to repair rig.       Total Depth       21.0mKB         Total Depth       21.0mKB         String Wt.       226 daN	PF			IFP	FFP		ISIP			FSIP	_	
Remarks: Sample, Core Desc, Tops, Tests, Logs, Elevations, Casing, Cementing, Solids Control  Continue reaming 148mm 12m to 18m, rig service, pull and lay down 1 damaged joint of 88.9 drill pipe.  Continue drilling 168.3mm casing from 6.79m to 10.25 mKB.  Run in with 148mm reamer and # 1-RR 96mm bit and pilot, continue reaming 148mm hole from 18m to 20.5m.  Rig service, ream 148mm 20.5m to 21m, shut down to repair rig.  Total Depth String Wt.  21.0mKB String Wt. 226 daN	BHT			Choke	Results							_
Remarks: Sample, Core Desc, Tops, Tests, Logs, Elevations, Casing, Cementing, Solids Control  Continue reaming 148mm 12m to 18m, rig service, pull and lay down 1 damaged joint of 88.9 drill pipe.  Continue drilling 168.3mm casing from 6.79m to 10.25 mKB.  Run in with 148mm reamer and # 1-RR 96mm bit and pilot, continue reaming 148mm hole from 18m to 20.5m.  Rig service, ream 148mm 20.5m to 21m, shut down to repair rig.  Total Depth String Wt.  21.0mKB String Wt. 226 daN								***************************************				
Remarks: Sample, Core Desc, Tops, Tests, Logs, Elevations, Casing, Cementing, Solids Control  Continue reaming 148mm 12m to 18m, rig service, pull and lay down 1 damaged joint of 88.9 drill pipe.  Continue drilling 168.3mm casing from 6.79m to 10.25 mKB.  Run in with 148mm reamer and # 1-RR 96mm bit and pilot, continue reaming 148mm hole from 18m to 20.5m.  Rig service, ream 148mm 20.5m to 21m, shut down to repair rig.  Total Depth String Wt.  21.0mKB String Wt. 226 daN	***************************************	.,						- O.V.				
Continue reaming 148mm 12m to 18m, rig service, pull and lay down 1 damaged joint of 88.9 drill pipe. Continue drilling 168.3mm casing from 6.79m to 10.25 mKB. Run in with 148mm reamer and # 1-RR 96mm bit and pilot, continue reaming 148mm hole from 18m to 20.5m. Rig service, ream 148mm 20.5m to 21m, shut down to repair rig.  Total Depth Size Length Cog. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Drill Rod 0.80 Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 168.3 10.25m Cag. 1								Slippery		D.::	04-1	
pull and lay down 1 damaged joint of 88.9 drill pipe.  Continue drilling 168.3mm casing from 6.79m to 10.25 mKB.  Run in with 148mm reamer and # 1-RR 96mm bit and pilot, continue reaming 148mm hole from 18m to 20.5m.  Rig service, ream 148mm 20.5m to 21m, shut down to repair rig.  Total Depth String Wt. 226 daN						Cementing, Sc	lids Control					
Continue drilling 168.3mm casing from 6.79m to 10.25 mKB.  Run in with 148mm reamer and # 1-RR 96mm bit and pilot, continue reaming 148mm hole from 18m to 20.5m.  Rig service, ream 148mm 20.5m to 21m, shut down to repair rig.  Total Depth String Wt. 226 daN										<del></del>		-
Run in with 148mm reamer and # 1-RR 96mm bit and pilot,  continue reaming 148mm hole from 18m to 20.5m.  Rig service, ream 148mm 20.5m to 21m, shut down to repair rig.  Total Depth String Wt. 226 daN										Csg.	168.3	10.25m
continue reaming 148mm hole from 18m to 20.5m.  Rig service, ream 148mm 20.5m to 21m, shut down to repair rig.  Total Depth String Wt.  20.20  88.9  20.20  7.20  88.9  20.20  88.9  20.20  88.9  20.20  88.9  20.20  88.9  20.20  88.9  20.20  88.9  20.20  88.9  20.20  88.9  20.20												
Rig service, ream 148mm 20.5m to 21m, shut down to repair rig.  Total Depth 21.0mKB String Wt. 226 daN						ilot,					<u> </u>	1
Total Depth 21.0mKB String Wt. 226 daN						ALLER OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE				Drill Rod	88.9	20.20
String Wt. 226 daN	Rig service	e, rear	n 148mm 2	20.5m to 21m,	shut down to r	epair rig.						
String Wt. 226 daN												
String Wt. 226 daN												
String Wt. 226 daN												
String Wt. 226 daN												
String Wt. 226 daN												
String Wt. 226 daN												
String Wt. 226 daN	***************************************											
										Total Depth		21.0mKB
Daily Cost: \$5,710.00 Cum.: \$117,328.00 Reported By: Colin Crane										String Wt.	226	daN
	Daily Cos	t:	\$5,710.0	00 <b>C</b> um	n.: \$117,328.0	0	Reported	d By:		Colin Crane		



WELL NAME:			Delpet Vinland Big Spring # 1									
Date	,	***************************************	97-06-04			Da	ıy No.	10	)			
Depth (080	0 hrs)		21.8mKB			24 Hr. Pro	gress	None	Э			
Activity at	Repo	rt Time	Wait	n rig repairs.		<del>-</del>						
Rig & Rig	No.		East 0	Coast # 2	Grd. Elev.	40.30m		K.B. Elev.	44.45m			
		rilling Flu			Bit Data		Time Analy			Hours		
	operti	es	Additives	Number	1-148	1-RR		1 Drilling				
WT	1000			Size	148	96mm		2 Trips				
VIS	28 W	ater		Туре	Pilot	JKS-7		3 Deviation S				
WL				Serial No.	3352	3352		4 Rig Service				
CAKE				Jets	Ported	Open		5 Circ. & Con	d. Mud			
рН				Out At		62		6 Repair Rig		24		
GELS				Hours	11.5m	44.75		7 Run Casing				
SOLIDS				M/HR	0.9	1.38		8 BOP Handi	ng & Tstg.			
PV				Cum. M	21	62		9 Logging				
YP				Cum. Hrs.	23.25	44.75		0 Coring				
% OIL				Cond. T/B/G				1 Formation 7	stg.			
% SAND				WT. on Bit	2100			2 Reaming				
CL				RPM	2-400			3 Fishing				
		Deviation	ns	Stroke			1	4 Other Act.				
Depth	Deg.	Depth	Degree	Liner				Total Hours		24.0		
154	0.5			l/m	45		Other					
				Ann Vel								
				Surf. Press.	69							
DST No.			Formation		Interval		То		Times: IF			
ISI			FF	FSI	_	Press.	: IHP		FHP			
PF			IFP	FFP		ISIP		FSIP				
BHT			Choke	Results						-		
Weather		Fog & Dr	izzle	Temp.	2 C	Roads	Slippery					
***************************************			ps, Tests, Logs, El			lids Control			l String Seq			
08:00 hour			WAIT ON M	AIN DRIVE PA	ARTS			Tool	Size	Length		
08:00 hour					.,			Reamer	152mm			
Expect to h	nave ri	g repaired	d by midnight.					H-T	88.9mm	21		
		OLD INTERNATION OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERT	,									
	A				·		CHILDOCATE ACTUADAS TO CHILDRANIA					
								Total Depti	1	21.8mKB		
								String Wt.		daN		
Daily Cos	t:	\$2,570.0	00 <b>Cum</b>	.: \$119,898.00	)	Reported	d By:	Ron Rang	er	<del></del>		
	- '	, , c . o		, .,			•	-0				



WELL NAM	ΛE:		Delpet Vinla	Delpet Vinland Big Spring # 1									
Date			97-06-05	1011 1011 1011		Da	ay No.		11		•		
Depth (080	0 hrs	)	35mKB			24 Hr. Pro	ogress	,	8.8m	)			
Activity at	Repo	rt Time	Make repairs	s to hydraulics									
Rig & Rig	No.		East Coast #	‡2	Grd. Elev.	40.30m			K.B. Elev.	44.5mKB			
				-									
		Drilling Flu			Bit Data		Time An				Hours		
	roperti	es	Additives	Number	1-148	RR #3			Drilling				
WT	1000			Size	148	96mm			Trips		5.25		
VIS	28			Туре	Pilot	JKS-7			Deviation Su	ırvey			
WL				Serial No.	3352	3350			Rig Service		0.5		
CAKE				Jets	Ported	Open			Circ. & Cond	d. Mud			
рН				Out At	30.4	154			Repair Rig		8		
GELS				Hours	49.25	26.25			Run Casing				
SOLIDS				M/HR	0.8				BOP Handli	ng & Tstg.			
PV	ļ			Cum. M	30.4				Logging				
YP				Cum. Hrs.	49.25	26.25			Coring				
% OIL				Cond. T/B/G	-90%	-10%			Formation T	stg.			
% SAND				WT. on Bit	227 daN				Reaming		10.25		
CL				RPM	150	150			Fishing				
		Deviation	าร	Stroke	76	76		14	Other Act.				
Depth	Deg.	Depth	Degree	Liner	51	51			Total Hours		24.0		
154	0.5			l/m	45	45	Other						
				Ann Vel									
				Surf. Press.	70	70							
DST No.			Formation		Interval		То			Times: IF			
ISI			FF	FSI		Press.	: IHP			FHP			
PF			IFP	FFP		ISIP			FSIP	_			
BHT			Choke	Results					•				
		MANAGE TO THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STAT		PAMONOSCHA (III. C. C. C. C. C. C. C. C. C. C. C. C. C.	s	+							
Weather	<del></del>	Rain, fog		Temp.	1 C	Roads	Slick						
Remarks: Sar	nple, C		ps, Tests, Logs, El		Cementing, So		<del></del>		Drill	String Seq	uence		
08:00 hour				n drive parts.		**************************************			Tool	Size	Length		
13:00 hour				ream ahead to	29.8mKB.	····			Reamer	96mm			
21:00 hour			Wait on repa	airs to hydrauli	c motor.		**************************************		H-T Rod	89mm	<del></del>		
22:00 hour				ream to 30.4 n									
23:00 hour			POOH, rem	ove reamer, 90	% worn, se	gment gone	e on.						
24:00 hour			96mm Mill.			<u> </u>	·		<b> </b>		<u> </u>		
01:30 hour				R#3, to TD, circ	ulate hole c	lean.					<u> </u>		
06:00 hour				mKB, hydrauli						-	<del> </del>		
08:00 hour		<u> </u>		s, wait on 114r			***************************************						
NORWEN AND ADDRESS OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY													
			***************************************										
								Total Depth			154mKB		
			· · · · · · · · · · · · · · · · · · ·						String Wt.	227	′ daN		
Daily Cost	t:	\$3,266.0	00 <b>Cum</b>	.: \$123,164.00	)	Reported	d By:		Ron Range	r			



Delpet Vinland Big Spring # 1

WELL NAME:

Date			97-06-06			_	ay No.	1:	2	
Depth (080			154m			_24 Hr. Pro	ogress	Clean Ou	t	
Activity at	Repo	rt Time	RIH 114mm	reamer						
Rig & Rig	No.		East Coast #	2	Grd. Elev.	40.30m		K.B. Elev.	44.5mKB	
	Г	Orilling Flu	uid		Bit Data	· · · · · · · · · · · · · · · · · · ·	Time Analysi	ie.		Hours
D	roperti		Additives	Number	# 4	T		Drilling		110013
WT	1000	Co	10L Insgel	Size	96mm	<del> </del>		Trips		7.25
VIS	28		10L Polmer	Туре	Mill			Deviation S	Ur/O/	7.20
WL	20		TOE TOUTIE	Serial No.	3351	<u> </u>		Rig Service	ui vey	0.5
CAKE	-			Jets	Open			Circ. & Con	d Mud	3.25
pH				Out At	C/Out	<del> </del>		Repair Rig	a. Maa	2
GELS				Hours	0			Run Casing	& Cmta	
SOLIDS	<del>                                     </del>			M/HR	0			BOP Handi		10.75
PV	<del> </del>			Cum. M				Logging	ng & roig.	10.70
YP	<del> </del>			Cum. Hrs.	1 0			Coring		
% OIL	<del> </del>			Cond. T/B/G	New			Formation 7	`eta	
% SAND				WT. on Bit	N/A	-	1 111	Reaming	sig.	
CL	<u> </u>			RPM	Clean	Out		Fishing		
OL.		Deviation		Stroke	76	- Out		Other Act.		-
Depth	Deg.		Degree	Liner	51		17	Total Hours		24.0
154			Degree	I/m	125		Other	Total Hours		24.0
104	0.5			Ann Vel	120	<del> </del>	Other			-
	<u> </u>			Surf. Press.	70					
DST No.	<u> </u>	<u> </u>	Formation	Journ Fress.	Interval	_i	 To		Times: IF	i
ISI		ORIGINATION CONTRACTOR OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE P	FF	FSI	- IIIICIVAI	Press.			- FHP	
PF			IFP —	- FFP	<del></del>	_ ISIP	. II IF	FSIP		
BHT			Choke	- Results		_ 1011		. 1 311-		-
DITI			CHOKE		*****					• ,,
Weather		Rain, fog		Temp.	1 C	Roads	Hard	·		
			ps, Tests, Logs, El			lids Control		<del></del>	I String Seq	
97-06-05,				s to hydraulic				Tool	Size	Length
97-06-05,	10:00	hours		n reamers, bui			ifold.	Tapertap	89mm	
***************************************				progress ie: r				Mill	96mm	
97-06-05,	21:00	hours		mm taperet tap			·	H/T Rod	89mm	153.2m
97-06-06				wn to 82mKB,						
				nill, slowly circ						
				ry returns, san						
			120mKB, an	d fill on botton	n from 152m	KB to 154r	mKB			
06:00 hou			Circulate ho							
97-06-06,	08:00	hours	POOH, to 36	6mKB.						
***************************************										
								Total Depth	1	154mKE
	<del></del>					**************************************		String Wt.	227	′ daN



WELL NAM	ΛE:			nd Big Spring	j#1				<u>,</u>		
Date			97-06-07			_	ıy No.		13	1.50	· .
Depth (080	0 hrs		40m			24 Hr. Pro	gress		9.6M		
Activity at	Repo	rt Time	Reaming to	148mm hole.							
Rig & Rig I	No.		East Coast #	ŧ 2	Grd. Elev.	40.30m			K.B. Elev.	44.5mKB	
							<u> </u>	<u>-</u>			- <u></u>
		Orilling Fl			Bit Data	1	Time An				Hours
	operti	es	Additives	Number	2-148				Drilling		4
WT	1000		10L Matrix	Size	148mm				Trips		13.5
VIS	30			Туре	Mill				Deviation Su	rvey	
WL				Serial No.	2V8866		ļ		Rig Service		0.5
CAKE				Jets	Open				Circ. & Cond	. Mud	11
рН				Out At	IN				Repair Rig		
GELS				Hours	4				Run Casing a		
SOLIDS				M/HR	2.3				BOP Handlin	g & Tstg.	
PV				Cum. M	9.6				Logging		
YP				Cum. Hrs.	4				Coring		
% OIL				Cond. T/B/G					Formation To	stg.	·
% SAND	, i			WT. on Bit	800daN	ļ		12	Reaming		5
CL				RPM	600			13	Fishing		
		Deviation	ns	Stroke	76			14	Other Act.		
Depth	Deg.	Depth	Degree	Liner	51				Total Hours		24.0
154	0.5			I/m	150		Other				
***************************************				Ann Vel							
***************************************				Surf. Press.	70						
DST No.	<u> </u>		Formation		Interval	oschmonmer	То		1	Times: IF	
ISI			FF	FSI		Press.	: IHP			FHP	
PF			IFP	- FFP		ISIP			FSIP	_	•
BHT			Choke	Results					-		-
	***************************************			<del></del>	EARLING CO.			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Weather		Sunny		Temp.	10 C	Roads	Good				
Remarks: Sar	nple, C	ore Desc, To	ops, Tests, Logs, E	levations, Casing,	Cementing, So	lids Control			Drill	String Seq	uence
Surface RF	₹#4								Tool	Size	Length
RIH 148mr	n casi	ng shoe n	nill, ream out 16	39mm					Mill	148mm	0.15m
shoe, oper	hole	to 30 MKE	B with 139mm o	casing and					Casing	139mm	33.0m
			#2-148 overhol						H/T Rod	89mm	6.85m
utilize 139	nm ca	sing, mill	ahead to 30 M	KB.							
			le to 40 MKB, e		ole.						
				***************************************							
		CAMPAGE TO THE TAXABLE PROPERTY.					····				
		······································									<b>†</b>
-											
											<u> </u>
											<b>†</b>
									<u> </u>		1
			***************************************			······································			Total Depth	_1	40.0mKE
<del></del>									String Wt.	850	daN
Daily Oz -	4.	\$7,565.	00 <b>C</b> um	i.: \$137,319	3	Reported	d Rv:		Ron Range		. aarv
Daily Cos	li.	,cσc, ι φ	oo cum	φ13 <i>1</i> ,318	9	izehoirei	u шy.		Non Nange	•	
										46	

WELL NAM	ΛE:	Delpet Vinla	ınd Big Spring	<b>;</b> # 1						
Date	<del></del>	97-06-08			Da	y No.		14	4	
Depth (080	0 hrs)	49MKB (148	mm hole)		_24 Hr. Pro	gress		18.6m (148ı	nm hole)	
Activity at	Report Time	Tripping			····					
Rig & Rig I	No.	East Coast #	‡ 2	Grd. Elev.	40.30m			K.B. Elev.	44.5mKB	
	5 W E			B:: B 1		Tepr. g				
	Drilling Flu		NI	Bit Data	I DD#4	Time An				Hours
	operties	Additives	Number	2-148	RR#4			Drilling		8.5
WT VIS	1000	10L Matrix	Size	148mm	96	<del> </del>		Trips		8.5
	30		Type	Mill	Mill	<del> </del>		Deviation S	urvey	
WL			Serial No.	2V8866	7-3351			Rig Service		0.5
CAKE			Jets	Open	Open	<b>_</b>		Circ. & Con	a. Mua	4.5
pH			Out At	49	IN			Repair Rig		
GELS			Hours	10.5	2			Run Casing		
SOLIDS			M/HR	3	N/A			BOP Handli	ng & Tstg.	
PV			Cum. M	18.6	N/A			Logging		
YP			Cum. Hrs.	14.5	N/A			Coring		
% OIL			Cond. T/B/G	-15%	-15			Formation 7	stg.	
% SAND			WT. on Bit	800daN	N/A			Reaming		
CL			RPM	700	Clean			Fishing		
	Deviation		Stroke	76	Out		14	Other Act.		2
Depth	Deg. Depth	Degree	Liner	51	Hole			Total Hours		24.0
154	0.5		I/m	65		Other		Unplug 139	Casing	
			Ann Vel							
			Surf. Press.	70						
DST No.		Formation		Interval		To			Times: IF	
ISI		FF	FSI		_ Press.	: IHP			FHP	
PF		IFP	FFP		ISIP			FSIP	,	
BHT		Choke	Results			· · · · · · · · · · · · · · · · · · ·		····		
***************************************			**************************************					· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
Weather	Sunny		Temp.	18 C	Roads	Hard				
	nple, Core Desc, To	ne Toete Loge Fl				Halu		Dril	l String Seq	uence
	to 46MKB (148r		evalions, Oasing,	Octriciting, Oc	nido Oprili Or			Tool	Size	Length
	string vibration,					·		Joint	89mm	
	hour to 0.5m/hc							Stabler	118mm	
	e in pump press		ale with					Joints	89mm	
	pill. Pump press							K/D	89mm	
	ed mill. Recover				<u></u>			100	0311111	0.43/11
	eters froginented		Ciy							
	96mm mill c/w		or unable							<del> </del>
										<u> </u>
	original 96mm o		uidle	400000000000000000000000000000000000000						-
	on hole, POOH.		aroon to 00 -1-	- AKO O O						-
NOTE:	Core analysis i									<u> </u>
	fracture plane					***************************************		ļ		-
	Core consists of	or ilmestone wi	ın caicium strir	igers.				Tatal Day (		40.054/55
								Total Depth		49.0MKB
			0.1.10.6.13			1 5		String Wt.		' daN
Daily Cost	t: \$9,000.0	00 <b>C</b> um	.: \$146,319	d	Reported	a BA:		Ron Range	er	



WELL NAME: Date			Delpet Vinla	nd Big Spring	; # 1					
Date	Date Depth (0800 hrs) Activity at Report Time					Da	y No.	15		
Depth (080	0 hrs	)	37mKB			24 Hr. Pro	gress	5m		
Activity at	Repo	rt Time	POOH 140m	m casing		<del></del>				
Rig & Rig	No.		East Coast #	2	Grd. Elev.	40.30m		K.B. Elev.	44.5mKB	-
					•					
		Orilling Flu			Bit Data		Time Analys			Hours
	roperti		Additives	Number	RR#4	RR#5		Drilling		11
WT	1000		5L PL Safe	Size	96mm	96mm		Trips		8
VIS	32			Туре	Mill	Mill		Deviation Su	rvey	
WL				Serial No.	7-3351	2V8866		Rig Service		0.5
CAKE				Jets	Open	Open	<del></del>	Circ. & Cond	. Mud	2.5
рН				Out At	49	54		Repair Rig		
GELS				Hours	3	1		Run Casing		
SOLIDS				M/HR	N/A	5	8	BOP Handlin	ıg & Tstg.	
PV				Cum. M	N/A	5	9	Logging		
YP				Cum. Hrs.	N/A	1	10	) Coring		
% OIL				Cond. T/B/G	50%	100%	11	Formation Te	stg.	
% SAND				WT. on Bit	N/A	500	12	Reaming		12
CL		***************************************		RPM	N/A	800	13	Fishing		
		Deviation	S	Stroke	76	76	14	Other Act.		
Depth	Deg.	Depth	Degree	Liner	51	51		Total Hours		24.0
154				l/m	120	75	Other		<del></del>	
				Ann Vel	<u> </u>					
				Surf. Press.	70	70	1			
DST No.			Formation		Interval		То		Times: IF	
ISI		***************************************	FF	FSI	-	Press.	: IHP		- FHP	
PF		·	IFP	- FFP		- ISIP		FSIP		
BHT			Choke	– Results				-		-
***************************************										
Weather		Sunny		Temp.	22 C	Roads	Hard	**************************************		
	nple. C		s, Tests, Logs, El	evations, Casing,		lids Control		Drill	String Seq	uence
				g shoe, hang a		0.4424444444444444444444444444444444444		Tool	Size	Length
				bit, ream fron			<del></del>	Shoe	148mm	
				Smm open mill				Casing	140mm	
				3, make two at			·			
				54mKB, plug p						
			ole not showir						<u> </u>	<del> </del>
		casing, Po		19.			***************************************		· · · · · · · · · · · · · · · · · · ·	
			art to POOH to	37mKB			<del></del>			<del> </del>
Circulate	4011111	i casing, su	art to 1 OOT1 to	orning.			h			
***************************************										
<del></del>									_	
						WHO THE WATER TO THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE TANK THE				<u> </u>
									<del> </del>	
		· · · · · · · · · · · · · · · · · · ·						Total Dane		  C 74: /D
								Total Depth		6.74mKB
	_	<b></b>		0/2002		P .	1 Ps	String Wt.		daN
Daily Cos	t:	\$6,590.0	0 <b>Cum</b>	.: \$152,909	)	Reported	я ву:	Ron Range	r ·	



WELL NAME: Date		Delpet Vinla	nd Big Spring	#1							
Date	-		97-06-10			-	ıy No.		16		
Depth (080	0 hrs)		54mKB			_24 Hr. Pro	gress		0		
Activity at	Repor	t Time		ahead on new						M	
Rig & Rig I	No. ِ		East 0	Coast # 2	Grd. Elev.	40.30m			K.B. Elev.	44.5mKB	
H.W	P4	**** - F1		1	Bit Data		Time An	alvei		T	Hours
		rilling Flu		Number	RR#5	T	Time An		S Drilling		nouis
	opertie	es	Additives Celloflake	Number Size	96mm				Trips		5.5
WT	1010		Cellollake		Mill				Deviation Sur	VAV	1.5
VIS	34			Type Serial No.	2V8866	<u> </u>			Rig Service	vey	0.5
WL CAKE				Jets	Open				Circ. & Cond.	Mud	1.5
				Out At	In				Repair Rig	Muu	1.0
pH				Hours	1				Run Casing 8	2. Cmta	
GELS				M/HR	0				BOP Handlin		
SOLIDS				Cum. M	1				Logging	g & raig.	
PV	ļ			Cum. Hrs.	1				Coring		
YP % OIL				Cond. T/B/G	100%				Formation Ts	·ta	
				WT. on Bit	100%				Reaming	nig.	
% SAND				RPM	800				Fishing		7
CL	L	DI - 41			76	<del></del>			Other Act.		8
	In	Deviation		Stroke	51			14	Total Hours		24
Depth		Depth	Degree	Liner	67		Other		Wait on Acid		24
54	0.75			I/m	07		Outer		Walt Off Acid		
154	0.5			Ann Vel	70						
DOT 1	<u> </u>			Surf. Press.			 To		<u></u>	Times: IF	<u> </u>
DST No.			Formation	FO1	- Interval	D				FHP	
ISI			FF	FSI		Press.	וחר		FSIP	. rnr	
PF			IFP	FFP FFP		_ ISIP	•		- 1915		-
BHT			Choke	Results							
\A/4l		Cussii		Temp.	20 C	Roads	Good				
Weather		Sunny	T - (- )				Good		Drill	String Seq	uonco
			ps, Tests, Logs, El		Cementing, Sc	nias Control			Tool	Size	Length
			asing, shoe joir						Mill	96mm	
			tap, attempt to mm open mill to		n holo				O/X	87mm	
								·····	Barrel	90mm	
			e clean to 54m						X/O	92mm	
			wait on bottom t	- Water and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second						<del></del>	<del> </del>
			ertical. Leave 8						X/O	90mm	
			ing and set into	bed rock @ 5	4m.				H/T Rod	89mm	
Continue r	nilling	and ream	ing at 54mKB.						K/D	89mm	1.86m
						·····					ļ
				****							-
										-	1
	**************************************	.,								<b>_</b>	<u> </u>
			22449444						7-6-15-0	1	<u> </u>
					······································				Total Depth		54.0mKE
									String Wt.		daN
Daily Cos	t:	\$6,590.	00 <b>C</b> um	.: \$159,499	<del>)</del>	Reporte	а Ву:		Ron Range	r.	

<b>WELL NAI</b>	ME:	Delpet Vinla	ind Big Spring	g # 1						
Date		97-06-11			Da	ay No.		17	,	
Depth (080	00 hrs)	86mKB			24 Hr. Pro	ogress		32m	1	
Activity at	Report Time	Coring	g and Drilling							
Rig & Rig	No	East (	Coast # 2	Grd. Elev.	40.30m			K.B. Elev.	44.5mKB	
			·•			T=:				
	Drilling Fl			Bit Data	<del></del>	Time Ar				Hours
	roperties	Additives	Number	RR#5				Drilling		2
WT	1010	Celloflake	Size	96mm				Trips		2
VIS	34		Туре	Mill				Deviation Su	urvey	2
WL			Serial No.	722403		-		Rig Service		0.5
CAKE			Jets	Open				Circ. & Cond	d. Mud	1.5
рН			Out At	ln				Repair Rig		
GELS			Hours	8	<b></b>			Run Casing		1
SOLIDS			M/HR	4				BOP Handlii	ng & Tstg.	
PV			Cum. M	32				Logging		
YP			Cum. Hrs.	9				Coring		10
% OIL			Cond. T/B/G					Formation T	stg.	
% SAND			WT. on Bit	3000				Reaming		
CL			RPM	800				Fishing	CORES	4.5
	Deviatio	ns	Stroke	76			14	Other Act.		
Depth	Deg. Depth	Degree	Liner	51				Total Hours		24
154	0.5		l/m	58		Other		Wait on Acid	d	
54	0.75		Ann Vel							
83	0.5		Surf. Press.	70						
DST No.	<u></u>	Formation		Interval		То			Times: IF	
ISI		FF	FSI	<b></b>	Press.	: IHP			FHP	
PF		IFP	FFP		ISIP			FSIP	<del></del>	
BHT		Choke	 Results		<del></del>			<del>-</del>		-
			<del></del>							
<b>***</b>										
Weather	Overcas	t	Temp.	10 C	Roads	Hard				
Remarks: Sa	mple, Core Desc, To	ops, Tests, Logs, E	evations, Casing,	Cementing, So	lids Control			Drill	String Seq	uence
Continue	coring 96mm, re	cover core, to 6	3mKB					Tool	Size	Length
	ecover 9m) surve			-				Mill	96mm	0.11m
	coring to 86mKB							O/X	87mm	0.14m
	<u>_</u>			•				Barrel	90mm	3.44m
								X/O	92mm	
								X/O	90mm	
								H/T Rod	89mm	
					· · · · · · · · · · · · · · · · · · ·			K/D	89mm	
			<u> </u>							3.00111
	· · · · · · · · · · · · · · · · · · ·			······································				<del> </del>		<del>                                     </del>
								<u> </u>		<del>                                     </del>
								<u> </u>		<del>                                     </del>
								<b> </b>		-
***************************************								Total Dooth		86.0mKB
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								Total Depth		daN
			<b>#</b> 400.00	<u> </u>	D-0-1	ı n.:		String Wt.		uain
Daily Cos	st: \$6,590.	.00 <b>Cum</b>	.: \$166,089	d d	Reporte	a By:		Ron Range	<b>)</b> [	



WELL NA	ME:		and Big Spring	7#1					*****************************	
Date		97-06-12			-	y No.		18		
Depth (08		121mKB			_24 Hr. Pro	gress		35m		
Activity at	t Report Time	Surve	y.							
Rig & Rig	No	East	Coast # 2	Grd. Elev.	40.30m			K.B. Elev.	44.5mKB	
	Drilling F			Bit Data		Time Ana	alvei			Hours
		Additives	Number	RR#5	#6	Time And		Drilling		2
WT	Properties 1010	10L P.Safe	Size	96mm	96mm			Trips		2
VIS	35	TUL P.Sale	<del> </del>	JKS#5	JKS#5			Deviation Sur	2.001	2
	35		Type Serial No.	722403	HQ-X4-420	<u> </u>			vey	0.5
WL CAKE				<del> </del>				Rig Service Circ. & Cond.	Mud	
			Jets	Open	Open				. IVIUU	1.5
pH			Out At	95	ln In	<b> </b>		Repair Rig		
GELS			Hours	3	7			Run Casing 8		1
SOLIDS			M/HR	3	3.5	ļ		BOP Handling	g & Istg.	
PV			Cum. M	41	26			Logging		
YP			Cum. Hrs.	12	7			Coring		10
% OIL			Cond. T/B/G	-100%				Formation Ts	itg.	
% SAND			WT. on Bit	3000	3000		12	Reaming		
CL			RPM	800	800		13	Retreive Core	es	5
	Deviati	ons	Stroke	76	76		14	Other Act.		
Depth	Deg. Depth	Degree	Liner	51	51			Total Hours		24
154	0.5 95	0.5	I/m	58	55	Other		Wait on Acid	***************************************	
54	0.75		Ann Vel							
83	0.5		Surf. Press.	70	70					
DST No.		Formation	<u></u>	Interval		То			Times: IF	
ISI		FF	FSI	-	Press.:	: IHP			- FHP	
PF		IFP	FFP		- ISIP			FSIP	•	
BHT		Choke	Results					<del>-</del>		-
				w		. 2				
Weather	Rain		Temp.	4 C	Roads	Hard			***************************************	
		Tops, Tests, Logs, E	levations, Casing,	Cementing, So	lids Control			<del> </del>	String Seq	
		ecover 9m core						Tool	Size	Length
mill segme	ents in core, sw	eep hole hivisc	pill,					Mill	96mm	0.11m
		gree, rig service.						X/O	87mm	
POOH, re	set 114mm cas	sing into bedrock	0.08m (circula	ite casing ar	nnulus),			Barrel	90mm	3.44m
RIH new r	mill to 95mKB.	Core ahead to 1	06mKB, recove	er 11m				X/O	90mm	0.19m
Core (cha	inge out sleeve	on wireline barre	el)	-				X/O	90mm	0.26m
		recover 15m co		, ready to su	urvey.			H/T Rod	90mm	116.0m
								K/D	90mm	0.86m
Management										
No.										
								Total Depth		121mKE
								String Wt.		daN
Daily Cos	st: \$6,590	0.00 <b>Cum</b>	i.: \$172,679	9	Reported	By:		Ron Ranger		



WELL NA	ME:			and Big Spring	g # 1						
Date Depth (0800 hrs) Activity at Report Time		97-06-13			-	ay No.	_	19			
			147mKB, to			_24 Hr. Pro	ogress		26m		
Activity at	Repo	rt Time	POOH, 112r								
Rig & Rig	No.		East Coast #	<del>‡</del> 2	Grd. Elev.	40.30m			K.B. Elev.	44.5mKB	
	l	Orilling FI			Bit Data		Time An				Hours
	ropert		Additives	Number	#6				Drilling		
WT	1010			Size	96mm				Trips		3.5
VIS	35			Туре	Mill			3	Deviation Su	rvey	2
WL				Serial No.	HQ-X4-420	)		4	Rig Service		0.5
CAKE				Jets	Open			5	Circ. & Cond	. Mud	1
pН				Out At	147			6	Repair Rig		8
GELS				Hours	7			7	Run Casing &	& Cmtg.	
SOLIDS				M/HR	3.5		***************************************	8	BOP Handlin	g & Tstg.	
PV				Cum. M	42			9	Logging		
YP	1			Cum. Hrs.	14				Coring		
% OIL	1			Cond. T/B/G	-50%				Formation Ts	sta.	
% SAND	<del> </del>			WT. on Bit	3000		<u> </u>		Reaming		11
CL	-			RPM	800				Recover Cor	es	
		Deviation	ns	Stroke	76				Other Act.		
Depth	Deg.	Depth	Degree	Liner	51				Total Hours	<del>/ / //</del>	24
Ворит	Tog.	Dopur	Dogroo	I/m	55		Other		Wait on Acid		
		121	0.25	Ann Vel		<del>                                     </del>	1011101		Trait of Triora	<del></del>	
	<del> </del>	141	0.25	Surf. Press.	70	<b> </b>	<del> </del>				,,,,,
DST No.	_L	1-1-1	Formation	Journ. 1 1633.	Interval		To		1	Times: IF	L
ISI		······································	FF	FSI	- Interval	Press.				FHP	
PF			IFP	- FFP	p	_ ISIP	11 11		FSIP	- 1115	-
			Choke	manus		_ 1315			-		
BHT			Crioke	_ Results					<del>,</del>		
			······································								
Weather		Sunny	···· · · · · · · · · · · · · · · · · ·	Temp.	18 C	Roads	Hard				
	mplo C		pps, Tests, Logs, E	<u>-</u>			riaru		Drill	String Seq	uence
			continue corin		Cernerung, Co	ilda Oomiloi			Tool	Size	Length
			head, resume		<u> </u>				Mill	96mm	
			tinue coring to						X/O	87mm	
			ate hole, POOI		1 14/11IND,			·····	Barrel	90mm	<del>                                     </del>
Tecover 1	iii, su	ivey circui	ate note, FOOI	П.					X/O	90mm	
									1		A
				ALCANIA MARKATANIA MARKATANIA MARKATANIA MARKATANIA MARKATANIA MARKATANIA MARKATANIA MARKATANIA MARKATANIA MAR					X/O	90mm	
									H/T Rod	90mm	1
									K/D	90mm	1.86m
											ļ
							***************************************				
										ļ.,	
									Total Depth		47.0mKB
									String Wt.		daN
Daily Cos	it:	\$7,750.	00 <b>Cu</b> m	i.: \$180,429	9	Reported	d By:		Ron Range	•	



WELL NA	ME:		Delpet Vinla	nd Big Spring	3 # 1						
Date	•		97-06-14			Da	y No.		20		•
Depth (08	00 hrs)	····	55mKB on 1	47mm hole		24 Hr. Pro	gress	•	6m		
Activity a	t Repoi	rt Time	Make repairs	s to rotary head	t	•	-	•			
Rig & Rig			East Coast #		Grd. Elev.	40.30m			K.B. Elev.	44.5mKB	
					-						
	D	rilling Flu	uid		Bit Data		Time An	alysi	s		Hours
F	Propertion	es	Additives	Number	RR#6	148-3			Drilling		
WT	1000			Size	96	148mm			Trips		3.5
VIS	28			Type	Pilot	Reamer		3	Deviation Su	rvey	
WL				Serial No.	HQ-X4-420	2W0437		4	Rig Service		0.5
CAKE				Jets	Open	Ported		5	Circ. & Cond	. Mud	1
pН				Out At	In	In		6	Repair Rig		8
GELS				Hours	14	1.5		7	Run Casing &	& Cmtg.	
SOLIDS				M/HR	N/A	4			BOP Handlin		
PV	1			Cum. M	42	6		9	Logging	disconnection of the second	
YP				Cum. Hrs.	14	1.5			Coring		
% OIL				Cond. T/B/G	-50%	In			Formation Ts	sta.	
% SAND				WT. on Bit	N/A	3000			Reaming	<u> </u>	11
CL	+			RPM	N/A	800			Recover Cor	es	
		Deviation	 1S	Stroke	N/A	76			Other Act.		<u> </u>
Depth	Deg.	Depth	Degree	Liner	N/A	51	<del> </del>		Total Hours	<del></del>	24
54	0.75	121	0.25	I/m	N/A	55	Other		Wait on Acid		T
	63 0.5 141			Ann Vel	1					~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
	95 0.5			Surf. Press.	N/A	70					
DST No.	1 0.0		Formation	Curi.   1000/	Interval	1	To		L	Times: IF	1
ISI	BENIOS		FF FF	FSI		Press.				FHP	
PF			IFP —	FFP		ISIP			FSIP	-	
BHT			Choke	Results						***************************************	
Dill		······································							e de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya del companya de la companya de la companya del companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la co		
				,			<u> </u>		· · · · · · · · · · · · · · · · · · ·		
Weather	·····	Cloudy		Temp.	5 C	Roads	Hard				
	ample Co		ps, Tests, Logs, El						Drill	String Seq	uence
			OOH, recover						Tool .	Size	Length
			Smm pilot on b			hit to 18mk	(B		Pilot	96mm	0.11m
			otary head. Re				\		Stab	90mm	0.14m
			uck in quill on i					·	Pup	90mm	0.44m
			KB, 96mm pilo		implete repa	iis to chuch	١.		X/O	90mm	0.44m
				t at Johnso.					Reamer	148mm	0.40m
Tear chuc	ж арап	, rebuild o	id sieeve.			····			X/O	140mm	0.21m
							····		Casing	140mm	54.0m
									K/D	90mm	0.5m
									<b></b>	<b></b>	ļ
							······································				
							···				ļ
			·							<u> </u>	<u></u>
									Total Depth		56.0mKE
									String Wt.		) daN
Daily Cos	st:	\$4,590.0	00 <b>C</b> um	.: \$185,019	€	Reported	d By:		Ron Range	r .	



WELL NAME:			Delpet Vinla	nd Big Spring	<b>;</b> # 1						
Date		ABANA	97-06-15			Da	y No.		21		
Depth (080	0 hrs)		86mKB on 14	18mm hole		24 Hr. Pro	gress	•	31m		
Activity at	Repo	rt Time	Ream	ing		'				*	
Rig & Rig	No.		East 0	Coast # 2	Grd. Elev.	40.30m			K.B. Elev.	44.5mKB	
		rilling Flu			Bit Data		Time Ana				Hours
	roperti	es	Additives	Number	RR#6	148-3			Drilling		
WT	1030			Size	96	148mm			Trips	***************************************	2
VIS	34			Туре	Pilot	Reamer			Deviation Sur	vey	
WL				Serial No.	HQ-X4-420	2W0437			Rig Service		0.5
CAKE				Jets	Open	Ported			Circ. & Cond.	Mud	3
рН	L			Out At	In	In			Repair Rig		8.5
GELS				Hours	14	10			Run Casing &		
SOLIDS				M/HR	N/A	3.5			BOP Handlin	g & Tstg.	
PV				Cum. M	42	37			Logging		
YP				Cum. Hrs.	14	11.5			Coring		
% OIL				Cond. T/B/G	-50%	ln			Formation Ts	tg.	
% SAND				WT. on Bit	N/A	3000		12	Reaming		10
CL				RPM	N/A	800		13	Recover Core	es	
		Deviation	S	Stroke	N/A	76		14	Other Act.		
Depth	Deg.	Depth	Degree	Liner	N/A	51			Total Hours		24
54	0.75	121	0.25	l/m	N/A	60	Other		Wait on Acid		
63	0.5	141	0.25	Ann Vel							
95	0.5			Surf. Press.	N/A	1500					
DST No.			Formation		Interval		То			Times: IF	
ISI			FF	FSI		Press.:	: IHP			FHP	
PF			IFP	FFP		ISIP			FSIP		_
BHT			Choke	Results							
								,			
Weather		Cloudy		Temp.	10 C	Roads	Hard				
			os, Tests, Logs, El	evations, Casing,	Cementing, Sol	ds Control				String Seq	
Repair slee			ary head.						Tool	Size	Length
Repairs co									Pilot	96mm	0.11m
Ream ahe									Stab	90mm	0.14m
			tor pipe with h						Pup	90mm	0.44m
Ream ahe	ad to 6	88mKB, co	ntinue to cure	losses while re	eaming.				X/O	90mm	0.46m
Ream ahe	ad to 8	86mKB.							Reamer	148mm	0.21m
									X/O	140mm	0.14m
			····						Casing	140mm	84.0m
									K/D	90mm	0.5m
***************************************											
				***************************************		<u> </u>	· · · · · · · · · · · · · · · · · · ·				
			······································	<del></del>					Total Depth		86.0mKB
		<u> </u>							String Wt.	2100	) daN
Daily Cos	t:	\$8,500.0	0 Cum	: \$193,519	)	Reported	I By:		Ron Ranger	•	
		+-,		, - , -			-		•		



WELL NA	ME:		Delpet Vinlar	nd Big Spring	<b>#</b> 1						
Date			97-06-16			Da	y No.		22		
Depth (08	00 hrs	)	120mKB			24 Hr. Pro	gress		34m		
Activity a	t Repo	rt Time	Trip Re			-					
Rig & Rig	No.		East C	oast # 2	Grd. Elev.	40.30m	····		K.B. Elev.	44.5mKB	
							Inut a r				
		Drilling Flu			Bit Data	1 440 0	Time Anal				Hours
	ropert		Additives	Number	RR#6	148-3	1		Drilling		4.5
WT	1000		10L Insta-gel		96mm	148mm			Trips		4.5
VIS	34		Celloflake	Type	Pilot	Reamer			Deviation Sur	vey	0.5
WL.				Serial No.	HQ-X4-420				Rig Service Circ. & Cond.	Mud	0.5
CAKE				Jets	Open	Ported				. iviud	
pH				Out At	N/A	121			Repair Rig	0.0	
GELS				Hours	14	17			Run Casing &		
SOLIDS				M/HR	N/A	2			BOP Handlin	g & 1stg.	
PV				Cum. M	42	71			Logging		ļ
YP				Cum. Hrs.	14	27			Coring		
% OIL	<u> </u>			Cond. T/B/G	-50%	ļ			Formation Ts	stg.	
% SAND				WT. on Bit	N/A	3000			Reaming		17
CL				RPM	N/A	800			Recover Cor	es	ļ
		Deviation	าร	Stroke	N/A	76		14	Other Act.		
Depth	Deg.	Depth	Degree	Liner	N/A	51			Total Hours		24
				l/m	N/A	60	Other		Wait on Acid		
				Ann Vel							
				Surf. Press.	N/A	70					
DST No.	·····		Formation		Interval		То			Times: IF	
ISI			FF	FSI		Press.	: IHP			FHP	
PF			IFP	FFP		ISIP			FSIP		_
BHT			Choke	Results		***************************************			.,,,,		
***************************************						***************************************				······································	
						D I.	t I I				
Weather		Sunny		Temp.	20 C	Roads	Hard			04-1	
			ps, Tests, Logs, Ele		Cementing, Sol	ids Control				String Seq	<del></del>
			nKB to 110mKE						Tool	Size	Length
			lost circulation			١.			Pilot	96mm	0.11m
			120mKB. POC	OH to check re	amer.				Stab	90mm	0.14m
Reset cor	nducto	barrel.							Pup	90mm	0.44m
									X/O	90mm	0.46m
									Reamer	148mm	0.21m
									X/O	140mm	0.14m
									Casing	140mm	117.0m
									K/D	90mm	1.5mm
									Total Depth		120mKE
									String Wt.	3000	) daN
Daily Co	st:	\$6,590.0	00 <b>Cum</b> .	: \$200,109.00	)	Reported	d By:		Ron Range		·



WELL NA	ME:		Delpet Vinla	nd Big Spring	j # 1						
Date			97-06-17			Da	ıy No.		23		
Depth (08	300 hrs	)	TD at 140 mk	(B, 148 mm H	ole	24 Hr. Pro	gress		25m		
Activity a	at Repo	rt Time	POOH	, Reamer							
Rig & Rig	No.		East C	coast # 2	Grd. Elev.	40.30m			K.B. Elev.	44.5mKB	
							T				
		Drilling FI			Bit Data	1	Time Ana				Hours
	Propert		Additives	Number	RR#6	148-2			Drilling		0.5
WT	1000		10L Insta-gel	<del> </del>	96mm	148mm	<u> </u>		Trips		6.5
VIS	34		Celloflake	Туре	Pilot	Reamer			Deviation Sur	rvey	0.5
WL				Serial No.	HQ-X4-420	<del></del>	-		Rig Service	N A1	0.5
CAKE				Jets	Open	Ported	<u> </u>		Circ. & Cond.	Mua	2
pH				Out At	N/A	145			Repair Rig		
GELS				Hours	14	14			Run Casing 8		
SOLIDS		·		M/HR	N/A	2			BOP Handlin	g & rstg.	
PV				Cum. M	42	44	<b>_</b>		Logging		
YP				Cum. Hrs.	14	28.5			Coring	,	
% OIL				Cond. T/B/G					Formation Ts	stg.	
% SAND				WT. on Bit	N/A	3000			Reaming		15.5
CL	<u> </u>			RPM	N/A	800			Recover Core	es	
		Deviatio	ns	Stroke	N/A	76		14	Other Act.		
Depth	Deg.	Depth	Degree	Liner	N/A	51			Total Hours		24
				l/m	N/A	60	Other		Wait on Acid		
				Ann Vel							
				Surf. Press.	N/A	70					
DST No.			Formation		_ Interval		To			Times: IF	
ISI			FF	FSI		Press.	: IHP			- FHP	
PF			IFP	FFP	·	ISIP			FSIP		
BHT			Choke	- Results							
								,			
Weather		Sunny		Temp.	20 C	Roads	Hard				
Remarks: S	ample, C	ore Desc, To	ops, Tests, Logs, Ele	evations, Casing,	Cementing, Sol	ids Control				String Sequ	
									Tool	Size	Length
POOH; re	ecover	reamer an	d pilot (96 mm p	ilot at -50%).					Pilot	96 mm	
Reset co	nductor	barrel. R	IH with ream 14	8-2. Continue	e reaming fro	m 120 mK	В		Stab	90 mm	
to 132 ml	KB.								Pup	90 mm	<u> </u>
TD 148 n	nm hole	at 145 m	KB; 96 mm hole	to 146.5 mKE	<ol><li>Sweep ho</li></ol>	le clean.			X/O	90 mm	0.46 n
									Reamer	148 mm	
									X/O	140 mm	0.14 n
									Casing	140 mm	31.15 n
						*			HT Rod	90 mm	
***************************************									Stab.	140 mm	0.9 n
									K/D	90 mm	3.95 n
									T. C. I. P. 12	l	10.5 10
				······································					Total Depth		46.5 mK
		· · · · · · · · · · · · · · · · · · ·		4000			1 Ps		String Wt.		daN
Daily Co	st:	\$8,590.	.00 <b>Cum.</b>	: \$208,699.00	ì	Reported	a By:		Ron Ranger	Ī	
										.4	

WELL NAM	ΛE:		Delpet Vinla	nd Big Spring	j # 1					
Date		#1111 M	97-06-18			Da	ıy No.	24		
Depth (080	0 hrs	)	145 mKB			24 Hr. Pro	ogress	0 m		
Activity at	Repo	rt Time	WOC - Surfa	ce Casing		<b></b>				
Rig & Rig	No.		East Coast #	2	Grd. Elev.	40.30m		K.B. Elev.	44.5mKB	
			CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE THE CALL COLUMN TO SOLVE				· · · · · · · · · · · · · · · · · · ·		ı	
		Drilling Flu			Bit Data		Time Analys			Hours
	roperti		Additives	Number				Drilling		<u> </u>
WT	1000			Size				2 Trips		5.00
VIS	34			Type				Deviation Su	irvey	0.50
WL				Serial No.				Rig Service	I NA I	0.50
CAKE				Jets				Circ. & Cond	ı. Mud	<del></del>
pH				Out At		<u> </u>		Repair Rig	0.0	4.50
GELS				Hours				Run Casing		1.50
SOLIDS				M/HR		<u> </u>		BOP Handlir	ng & istg.	
PV				Cum. M				Logging		
YP				Cum. Hrs.				Coring		
% OIL		····		Cond. T/B/G				1 Formation T	stg.	15.50
% SAND				WT. on Bit				2 Reaming		15.50
CL				RPM				Recover Co		17.00
		Deviation		Stroke			1.	4 Other Act.	WOC	17.00
Depth	Deg.	Depth	Degree	Liner	ļ			Total Hours		24.00
				l/m			Other			
				Ann Vel						
				Surf. Press.						
DST No.			Formation		Interval		To		Times: IF	
ISI			FF	FSI		_ Press.	: IHP		FHP	
PF			IFP	FFP		ISIP		FSIP		
BHT			Choke	_ Results						
										***************************************
Weather		Overcast		Temp.	8 C	Roads	Good			
Mary Mary Mary Mary Mary Mary Mary Mary	mole C		ps, Tests, Logs, El					Drill	String Sequ	uence
Tomano. Ca	mpic, c	010 10000, 10	po, 100to, 20go, 2.	oranono, oaonig,				Tool	Size	Length
POOH with	140	m casing c	drill string; lay d	lown reamer a	nd 96 mm p	ilot mill.		Shoe Jt.	140 mm	
			e casing string					Csg Jts.		37.25 m
			th 680 kg 0-1-0				3.	Csg Pups	140 mm	
			lace at 1415 ho					Land Jt.	90 mm	
			rface. Float an							
good come	2111100	41110 10 041	riado. Tidat ari	a annaide neic	. 0.11. 11.00					
				***************************************						
										<u> </u>
									<del></del>	
									<u> </u>	<del> </del>
										<del> </del>
								Total Depth	1.	1 46.5 mKB
								String Wt.		daN
B. II. A	4.	Φο σος	00 0	. 6000 700 0	^	Donarta	d Dv.	Ron Range		uain
Daily Cos	Cost: \$8,590.00 Cum.: \$220,789.00 Reported B							Non Nange	71	

WELL NA	ΛE:		Delpet Vinla	nd Big Spring	g # 1						
Date		***************************************	97-06-19		***************	Da	ay No.		25		
Depth (080	00 hrs	)	145 mKB			24 Hr. Pro		•	0 m	***************************************	. ,,
Activity at	Repo	rt Time	Condi	uct Safety Insp	ection with	ŌH & S					
Rig & Rig	No.		East (	Coast # 2	Grd. Elev.	40.30m			K.B. Elev.	44.5mKB	
			4								
		Drilling Flu			Bit Data		Time Anal	<del>~~~~</del>			Hours
	roperti	es	Additives	Number					Drilling		
WT				Size					Trips		
VIS				Type		ļ			Deviation Su	rvey	
WL	ļ			Serial No.		ļ			Rig Service		
CAKE	ļ			Jets					Circ. & Cond	. Mud	
pH	ļ			Out At					Repair Rig		
GELS	ļ			Hours					Run Casing		10.00
SOLIDS	ļ			M/HR					BOP Handlin	ig & 1 stg.	18.00
PV				Cum. M			_		Logging		
YP	<u> </u>			Cum. Hrs.					Coring		
% OIL	<u> </u>			Cond. T/B/G		<u> </u>			Formation To	stg.	
% SAND				WT. on Bit					Reaming		
CL	<u> </u>			RPM					Recover Cor		
	т=	Deviation		Stroke	<u> </u>			14	Other Act.	Welding	6.00
Depth	Deg.	Depth	Degree	Liner					Total Hours		24.00
				I/m			Other		Weld Bowl		5.00
				Ann Vel	<u> </u>				woc	***************************************	1.00
	<u> </u>	<u> </u>	<u>l</u>	Surf. Press.	<u> L</u>		_ <u></u>		<u> </u>		
DST No.			Formation		Interval	***************************************	To			Times: IF	
ISI			FF	_ FSI	6WW	Press.	: IHP			- FHP	
PF			IFP	FFP		ISIP			FSIP		_
BHT			Choke	Results	-						
		<u></u>									
14/4/		C		T	20 C	Doods	lland		····		
Weather		Sunny		Temp.		Roads	Hard		D.:II	Chaire at Caran	
Remarks: Sa	mple, C	ore Desc, Top	ps, Tests, Logs, El	evations, Casing,	Cementing, So	olids Control				String Sequence Size	· · · · · · · · · · · · · · · · · · ·
WOO	f			n 4 Canada hara	. 11 420 7	v. 470	- (v. 1.1)		Tool		Length
			casing, weld o						Shoe Jt.	140 mm	I
			weld to 14mp						Csg Jts.		37.25 m
			k consisting of						Csg Pups	140 mm	1
			79mm x 21mpa						Land Jt.	90 mm	3.35 m
			ool c/w 2-76mi			. Conduct	sarety				
inspection	with i	ewtoundia	and Occupation	iai Health & Sa	arety, OK.						
					<u></u>					ļ	<b> </b>
					····						<b> </b>
											1
											<del> </del>
				24422					-		
<del>,</del>				······································					T.(.) 5	<u></u>	15.0 1/5
					(ALCONOMICS )				Total Depth	1	45.0mKB
						May .			String Wt.		daN
Daily Cos	t:	\$27,340.0	00 <b>Cum</b>	.: \$248,129.00	)	Reported	а Ву:		Ron Range	<b>r</b>	



WELL NA	ME:		Delpet Vinla	nd Big Spring	g # 1					
Date Depth (0800 hrs) Activity at Report Time			97-06-20			Da	ıy No.	26		,
Depth (080	00 hrs	)	147mKB			24 Hr. Pro	gress	0 m		
Activity at	Repo	rt Time	Circul	ate Hole Clear	1	<del>-</del>				
Rig & Rig	No.		East C	Coast # 2	Grd. Elev.	40.30m		K.B. Elev.	44.5mKB	
					-					
		Drilling Flu			Bit Data		Time Analys			Hours
	roperti		Additives	Number				l Drilling		2.50
WT	1000			Size				2 Trips		8.00
VIS	29	·		Туре				Deviation Su	ırvey	
WL	<u> </u>	***************************************		Serial No.				Rig Service		0.50
CAKE	ļ			Jets				Circ. & Conc	l. Mud	
pН				Out At				Repair Rig		
GELS				Hours				Run Casing		
SOLIDS				M/HR				BOP Handlir	ng & Tstg.	13.50
PV				Cum. M				Logging		
YP				Cum. Hrs.				Coring		
% OIL				Cond. T/B/G				1 Formation T	stg.	
% SAND				WT. on Bit				2 Reaming		
CL				RPM				Recover Co	es	
		Deviation	ıs	Stroke			14	4 Other Act.		
Depth	Deg.	Depth	Degree	Liner				Total Hours		24.00
*				I/m			Other			
				Ann Vel						
		<u> </u>		Surf. Press.	]	<u> </u>				<u> </u>
DST No.			Formation		Interval	*************	_ To		_Times: IF	
ISI			FF	FSI		_ Press.	: IHP	***************************************	_ FHP	
PF			IFP	FFP_		ISIP		FSIP	N-11-11-11-11-11-11-11-11-11-11-11-11-11	•
BHT			Choke	_ Results	National Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Prope					
					···					
			***************************************							
Weather		Sunny		Temp.	20 C	Roads	Hard			
			os, Tests, Logs, Ele						String Seq	
			Pressure tes					Tool	Size	Length
			w test of 1400					Mill	96mm	
			R#6 mill, tag ce					X/O	90mm	
			Kpa low, 14mp					Barrel	90mm	
		<del>-</del>	OK 10 minutes		War-Array			X/O	90 mm	
		~~~~	10 minutes, tes					X/O	90mm	0.26
			oe on 114.3mn					H/T Rod	90mm	
			.5m below mud					K/D	90mm	1.86
c/w 96mm	core b	oit. Core a	head to 147mk	(B. Each tour	to conduct f	low checks	,			
maintain tr	ip she	et and hold	d a minimum of	two BOP shu	ts-in drills p	er tour.				
	<del>~~~</del>									
								Total Depth	1	47.0mKB
								String Wt.		daN
Daily Cos	t:	\$10,090.0	00 <b>Cum</b> .	: \$258,219.00	)	Reported	ву:	Ron Range	r	



WELL NAME: Date			Delpet Vinland Big Spring # 1								
		,	97-06-21			****	ıy No.		27		· 
Depth (080			178mKB			24 Hr. Pro	gress		31m		
Activity at	Report T	ime	Coring			_					
Rig & Rig	No		East Coast #	2	Grd. Elev.	40.30m			K.B. Elev.	44.5mKB	
***************************************							T				r
		ling Flui			Bit Data	T	Time Ana				Hours
	roperties		Additives	Number	#7	#8			Drilling		
WT	1000	*****		Size	96mm	96mm			Trips	***************************************	4.75
VIS	35			Туре	#7	#7	ļ		Deviation Su	rvey	0.50
WL	ļ			Serial No.	19660-1	19660-2			Rig Service		0.50
CAKE				Jets	Open	Open			Circ. & Cond	. Mud	0.75
pH				Out At	152	ln —			Repair Rig		1.00
GELS				Hours	2	7			Run Casing 8		
SOLIDS				M/HR	2.5	3.7		~~~~	BOP Handlin	g & Tstg.	····
PV				Cum. M	5	26			Logging		
YP				Cum. Hrs.	2	7			Coring		9.00
% OIL				Cond. T/B/G	Broken	<u>In</u>			Formation Ts	stg.	1.00
% SAND				WT. on Bit	2000	2000	<u> </u>		Reaming		
CL	L Deviations			RPM	300	300			Recover Cor	es	7.00
	·			Stroke	76	76		14	Other Act.		
Depth	Deg. De	epth	Degree	Liner	51	51			Total Hours		24.00
				I/m	40	40	Other				
				Ann Vel							
WEETINGS TO THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF TAXABLE	<u> </u>		<u> </u>	Surf. Press.	70	70	<u> </u>				
DST No.		****	Formation		Interval		To			Times: IF	4
ISI			FF	_ FSI		_ Press.	: IHP			_ FHP	
PF			IFP	_ FFP	<del></del>	ISIP			FSIP		_
BHT			Choke	Results					,=,,		
<u> </u>					con-colmonomo-co-co-						
157						DI-	111			****	
Weather		inny	/ P-1	Temp.	20 C	Roads	Hard		D.:II	Cárina Can	
				evations, Casing,		lids Control				String Seq	
				m core, hard s					Tool	Size	Length
				s broken on the	e outside.	oni mini wa wa wa wa wa wa wa wa wa wa wa wa wa			Mill	96mm	
			d in derrick 48				~~~~	<u> </u>	X/O	90mm	
				ure clean hole					Barrel	90mm	
				vertically fract					X/O	90mm	<del></del>
				heave to acco		olice in line.			X/O	90mm	
				8mKB, recove					H/T Rod	90mm	
Cores from	152mKE	3 to 178r	nKB are fracti	ured vertically	hard coring.				K/D	90mm	2.86
			Management of the second of th				····				
										<u> </u>	
									<u> </u>		
						***************************************			<u> </u>		<u> </u>
									Total Depth		178.0mKB
									String Wt.		) daN
Daily Cos	t:	\$8,129.00	Cum	.: \$266,348.00	0	Reported	d By:		Ron Range	r ·	



WELL NAM	ΛE:		Delpet Vinla	nd Big Spring	y # 1						
Date Depth (0800 hrs) Activity at Report Time			97-06-22				y No.		28		
Depth (080	0 hrs)		202mkb			24 Hr. Pro	gress		24m		
Activity at	Repor	t Time	Coring			-					
Rig & Rig	No.		East Coast #	2	Grd. Elev.	40.30m			K.B. Elev.	44.5mKB	
							T				
		rilling Flu			Bit Data	· · · · · · · · · · · · · · · · · · ·	Time Ar				Hours
	ropertie	<del></del>	Additives	Number	#8	<u> </u>			Drilling - :		
WT	1000			Size	96mm				Trips		1.50
VIS	35			Type	#7				Deviation Su	rvey	1.00
WL				Serial No.	19660-2				Rig Service		0.50
CAKE	ļ		<u> </u>	Jets	Open		ļ		Circ. & Cond	. Mud	0.50
pH				Out At	ln .				Repair Rig		1.50
GELS				Hours	8	ļ			Run Casing &		
SOLIDS				M/HR	3	<u> </u>			BOP Handlin	g & Tstg.	***************************************
PV				Cum. M	50				Logging		
YP				Cum. Hrs.	15				Coring		8.00
% OIL				Cond. T/B/G	In		ļ		Formation Ts	stg.	
% SAND				WT. on Bit	2000				Reaming		*****************
CL				RPM	600				Recover Cor	es	8.50
		Deviation	S	Stroke	76			14	Other Act.		2.50
Depth	Deg.	Depth	Degree	Liner	51				Total Hours		24.00
54	0.75	121	0.25	l/m	40		Other		Fishing Core	String	
63	0.5	141	0.25	Ann Vel							
95	0.5	183	0.25	Surf. Press.	70	70					
DST No.			Formation		Interval		То			Times: IF	
ISI			FF	FSI	-	Press.	: IHP			FHP	
PF			IFP	- FFP		ISIP			FSIP	<del></del>	
BHT			Choke	Results						***************************************	
Weather		Sunny		Temp.	17 C	Roads	Hard			- <u></u>	
				evations, Casing,		lids Control				String Sequ	
				n core, install		waanaanaan	<del>, ,</del>		Tool	Size	Length
				two attempts n					Mill	96mm	
				er, core did not					X/O	90mm	
Fish out co	re strir	ng, remov	e stabilizer, red	cover 3m core.					Barrel	90mm	
Core to 18	7mKB,	recover 4	m core.						X/O	90mm	1
Land 114n	ım cas	ing string	to 145mkB, co	re to 190mKB,	, recover 3m	core.			X/O	90mm	0.20
Core to 19	7mKB,	recover 3	lm core. Repa	irs to hydraulio	connection	is on			H/T Rod	90mm	195
motor, rep	ace m	ain belt. (	Core to 202mK	B, recover 6m	core.				K/D	90mm	2.86
			rizontally fracti								
			flow checks &		· · · · · · · · · · · · · · · · · · ·			<del></del>			
***************************************							<del>,, ,,, </del>				
				//							
				***************************************					Total Depth	1	202mKB
									String Wt.	2300	daN
Daily Cos	t:	\$6,980.0	00 Cum	.: \$273,328.00	0	Reported	d By:		Ron Range		



<b>WELL NA</b>	ME:		Delpet Vinla	and Big Spring	j#1					
Date Depth (0800 hrs) Activity at Report Time			97-06-23			Da	ıy No.	29	)	
Depth (08	00 hrs)		235mKB			_ 24 Hr. Pro	gress	31m	1	
Activity a	t Repor	t Time	Coring					<u> </u>		
Rig & Rig	No.		East Coast #	‡2	Grd. Elev.	40.30m		K.B. Elev.	44.5mKB	
										1 1
	4	rilling Flu		<del></del>	Bit Data	1 1/0	Time Analy			Hours
	ropertie	98 	Additives	Number	#8	#9		1 Drilling		
WT	1000			Size	96mm	96mm		2 Trips		3.00
VIS	35			Туре	#7	#5		3 Deviation Sι	ırvey	
WL				Serial No.	19660-2	3409		4 Rig Service		0.50
CAKE				Jets	Open	Open		5 Circ. & Cond	d. Mud	0.50
pH				Out At	204	ln		6 Repair Rig		5.50
GELS		·		Hours	1.5	8.5		7 Run Casing		
SOLIDS		<u></u>		M/HR	3	3.6	1	8 BOP Handlii	ng & Estg.	0.50
PV				Cum. M	52	31		9 Logging		
YP				Cum. Hrs.	16.5	8.5		0 Coring		8.50
% OIL				Cond. T/B/G	-50%			1 Formation T	stg.	<u> </u>
% SAND				WT. on Bit	2000	2000		2 Reaming		
CL	<u> </u>			RPM	700	700		3 Recover Co	res	5.50
	Deviations Depth Dec Depth			Stroke	76	76	1	4 Other Act.		
Depth				Liner	51	51		Total Hours		24.00
				I/m	40	40	Other			
				Ann Vel						
				Surf. Press.	70	70				
DST No.			Formation		Interval		То		_Times: IF	
ISI			FF	FSI		Press.	: IHP		FHP	
PF			IFP	FFP		ISIP		FSIP		_
BHT	*		Choke	Results			· · · · · · · · · · · · · · · · · · ·			
				Ngai		P I -				
Weather		Rain		Temp.	8 C	Roads	Hard	T Dell	Chuin as Co as	
			ps, Tests, Logs, E			lids Control			String Seq	
			nkB, main pillo				,	Tool	Size	Length
			clean hole. PO					Mill	96mm	
			it on rig repairs					X/O	90mm	<u> </u>
			untered. Core					Barrel	90mm	
recover 1.	2m core	e. Core from	om 216mKB to	235mkB, reco	ver 19m cor	<u>е.</u>		X/O	90mm	- <del> </del>
				·		······································	,,,,,	X/O	90mm	
				***************************************				H/T Rod	90mm	
								K/D	90mm	2.86
								Total Dar-ti-		225mVF
								Total Depth		235mKB daN
							10	String Wt.		uan
Daily Cos	st:	\$6,865.	00 <b>C</b> um	<b>1.:</b> \$280,193.00	υ	Reported	а ву:	Ron Range	er ·	



Date				ina Big Spring					~ · · · · · · · · · · · · · · · · · · ·		
			97-06-24	· · · · · · · · · · · · · · · · · · ·			ay No.	_	30	···	
Depth (0			271mKB			_24 Hr. Pro	ogress	_	36m		
Activity a	-	rt Time	Coring								
Rig & Rig	y No.		East Coast #	2	Grd. Elev.	40.30m			K.B. Elev.	44.5mKB	
		- · · · · · · · · · · · · · · · · · · ·		T		<del></del>	·		·		
		Orilling Fl			Bit Data		Time Anal				Hours
	Properti		Additives	Number	#8	#9			Drilling		
WT	1000			Size	96mm	96mm			Trips		
VIS	36			Туре	#7	#5			Deviation Su	rvey	
WL				Serial No.	19660-2	3409			Rig Service		0.50
CAKE				Jets	Open	Open			Circ. & Cond.	. Mud	0.50
pH				Out At	204	ln			Repair Rig		
GELS			· · · · · · · · · · · · · · · · · · ·	Hours	1.5	13			Run Casing &		
SOLIDS				M/HR	3	2.75			BOP Handlin	g & Tstg.	0.50
PV				Cum. M	52	67			Logging		
YP				Cum. Hrs.	16.5	8.5			Coring		13.00
% OIL				Cond. T/B/G	-50%	21.5			Formation Ts	stg.	
% SAND				WT. on Bit	2000	2000			Reaming		
CL				RPM	700	700			Recover Cor	es	9.50
		Deviation	ns	Stroke	76	76		14	Other Act.		
Depth	Deg.	Depth	Degree	Liner	51	51			Total Hours		24.00
				l/m	40	40	Other				
				Ann Vel							
				Surf. Press.	70	70					
DST No.			Formation		Interval		To			Times: IF	
ISI			FF	FSI	-	Press.	.: IHP			FHP	
PF			IFP	FFP		ISIP			FSIP	-	
BHT			Choke	 Results					•		
											•
							<del></del>	<del></del>	<del></del>		~~~
<del></del>		,'									
Weather		Rain		Temp.	1 C	Roads	Hard				
	ample, C		pps, Tests, Logs, El	Temp.			Hard		Drill	String Sequ	uence
Remarks: S		ore Desc, To	ops, Tests, Logs, El mKB, recovr 24	Temp.			Hard		<b>Drill</b> Tool	String Sequ	uence Length
Remarks: S	n 235m	ore Desc, To KB to 259		Temp. evations, Casing, ( m core.			Hard				Length
Remarks: S Core from	n 235m n 259m	ore Desc, To KB to 259i KB to 271i	mKB, recovr 24	Temp. evations, Casing, ( m core. 2m core.			Hard		Tool	Size	Length 0.1
Remarks: S Core from Core from At 271mh	n 235m n 259m KB, darl	ore Desc, To KB to 259i KB to 271i c grey to b	mKB, recovr 24 mKB, recover 1	Temp. evations, Casing, Commone. 2m core. rong H2S			Hard		Tool Mill	Size 96mm	Length 0.11 0.14
Remarks: S Core from Core from At 271mk smell on	n 235m n 259m KB, darl fresh bi	KB to 259i KB to 271i KB to 271i k grey to b reaks. Vai	mKB, recovr 24 mKB, recover 1 lack dolmite, st ries from highly	Temp. evations, Casing, G m core. 2m core. rong H2S fractured			Hard		Tool Mill X/O	Size 96mm 90mm 90mm	0.1 0.1 0.1 3.4
Remarks: S Core from Core from At 271mk smell on to fairly c	n 235m n 259m (B, dark fresh br ompent	ore Desc, To KB to 259i KB to 271i grey to b eaks. Vai ent white	mKB, recovr 24 mKB, recover 1 lack dolmite, st ries from highly calcite lined fra	Temp. evations, Casing, G m core. 2m core. rong H2S fractured ctures			Hard		Tool Mill X/O Barrel X/O	Size 96mm 90mm 90mm 90mm	0.12 0.14 3.44 0.19
Remarks: S Core from Core from At 271mh smell on to fairly of	n 235m n 259m KB, dark fresh br ompent es, to v	ore Desc, To KB to 259i KB to 271i c grey to b reaks. Vai ent white ertical bed	mKB, recovr 24 mKB, recover 1 lack dolmite, st ries from highly calcite lined fra lding still subho	Temp. evations, Casing, G m core. 2m core. rong H2S fractured ctures rizontal.			Hard		Tool Mill X/O Barrel X/O X/O	96mm 90mm 90mm 90mm 90mm	0.14 0.14 3.44 0.19 0.28
Remarks: S Core from Core from At 271mk smell on to fairly c 50 degre Cores from	n 235m n 259m KB, dark fresh br ompent es, to v	ore Desc, To KB to 259i KB to 271i c grey to b eaks. Vai ent white ertical bed to 271mKB	mKB, recovr 24 mKB, recover 1 lack dolmite, st ries from highly calcite lined fra	Temp. evations, Casing, G m core. 2m core. rong H2S fractured ctures rizontal.			Hard		Tool Mill X/O Barrel X/O X/O H/T Rod	96mm 90mm 90mm 90mm 90mm 90mm	Length 0.17 0.14 3.44 0.19 0.28
Remarks: S Core from Core from At 271mh smell on to fairly of	n 235m n 259m KB, dark fresh br ompent es, to v	ore Desc, To KB to 259i KB to 271i c grey to b eaks. Vai ent white ertical bed to 271mKB	mKB, recovr 24 mKB, recover 1 lack dolmite, st ries from highly calcite lined fra lding still subho	Temp. evations, Casing, G m core. 2m core. rong H2S fractured ctures rizontal.			Hard		Tool Mill X/O Barrel X/O X/O	96mm 90mm 90mm 90mm 90mm	Length 0.17 0.14 3.44 0.19 0.28
Remarks: S Core from Core from At 271mk smell on to fairly c 50 degre Cores from	n 235m n 259m KB, dark fresh br ompent es, to v	ore Desc, To KB to 259i KB to 271i c grey to b eaks. Vai ent white ertical bed to 271mKB	mKB, recovr 24 mKB, recover 1 lack dolmite, st ries from highly calcite lined fra lding still subho	Temp. evations, Casing, G m core. 2m core. rong H2S fractured ctures rizontal.			Hard		Tool Mill X/O Barrel X/O X/O H/T Rod	96mm 90mm 90mm 90mm 90mm 90mm	Length 0.17 0.14 3.44 0.19 0.28
Remarks: S Core from Core from At 271mk smell on to fairly c 50 degre Cores from	n 235m n 259m KB, dark fresh br ompent es, to v	ore Desc, To KB to 259i KB to 271i c grey to b eaks. Vai ent white ertical bed to 271mKB	mKB, recovr 24 mKB, recover 1 lack dolmite, st ries from highly calcite lined fra lding still subho	Temp. evations, Casing, G m core. 2m core. rong H2S fractured ctures rizontal.			Hard		Tool Mill X/O Barrel X/O X/O H/T Rod	96mm 90mm 90mm 90mm 90mm 90mm	Length 0.1 0.14 3.44 0.19 0.28
Remarks: S Core from Core from At 271mk smell on to fairly c 50 degre Cores from	n 235m n 259m KB, dark fresh br ompent es, to v	ore Desc, To KB to 259i KB to 271i c grey to b eaks. Vai ent white ertical bed to 271mKB	mKB, recovr 24 mKB, recover 1 lack dolmite, st ries from highly calcite lined fra lding still subho	Temp. evations, Casing, G m core. 2m core. rong H2S fractured ctures rizontal.			Hard		Tool Mill X/O Barrel X/O X/O H/T Rod	96mm 90mm 90mm 90mm 90mm 90mm	0.14 0.14 3.44 0.19 0.26
Remarks: S Core from Core from At 271mh smell on to fairly c 50 degre Cores from	n 235m n 259m KB, dark fresh br ompent es, to v	ore Desc, To KB to 259i KB to 271i c grey to b eaks. Vai ent white ertical bed to 271mKB	mKB, recovr 24 mKB, recover 1 lack dolmite, st ries from highly calcite lined fra lding still subho	Temp. evations, Casing, G m core. 2m core. rong H2S fractured ctures rizontal.			Hard		Tool Mill X/O Barrel X/O X/O H/T Rod	96mm 90mm 90mm 90mm 90mm 90mm	Length 0.1 0.14 3.44 0.19 0.28
Remarks: S Core from Core from At 271mh smell on to fairly c 50 degre Cores from	n 235m n 259m KB, dark fresh br ompent es, to v	ore Desc, To KB to 259i KB to 271i c grey to b eaks. Vai ent white ertical bed to 271mKB	mKB, recovr 24 mKB, recover 1 lack dolmite, st ries from highly calcite lined fra lding still subho	Temp. evations, Casing, G m core. 2m core. rong H2S fractured ctures rizontal.			Hard		Tool Mill X/O Barrel X/O X/O H/T Rod K/D	96mm 90mm 90mm 90mm 90mm 90mm	0.12 0.14 0.19 0.18 0.28 264 2.86
Remarks: S Core from Core from At 271mh smell on to fairly c 50 degree Cores from	n 235m n 259m KB, dark fresh br ompent es, to v	ore Desc, To KB to 259i KB to 271i c grey to b eaks. Vai ent white ertical bed to 271mKB	mKB, recovr 24 mKB, recover 1 lack dolmite, st ries from highly calcite lined fra lding still subho	Temp. evations, Casing, G m core. 2m core. rong H2S fractured ctures rizontal.			Hard		Tool Mill X/O Barrel X/O X/O H/T Rod	96mm 90mm 90mm 90mm 90mm 90mm	0.14 0.14 0.19 0.28 264 2.86 271mkE



WELL NAM	ΛE:		Delpet Vinla	nd Big Spring	j # 1						
Date	***************************************		97-06-25			Da	y No.		31		
Depth (080	0 hrs)		305mKB			24 Hr. Pro	gress		34m		
Activity at	Report 7	Time	Coring				_		, , , , , , , , , , , , , , , , , , , ,		
Rig & Rig	No.		East Coast #	2	Grd. Elev.	40.30m			K.B. Elev.	44.5mKB	
<u> </u>											
		lling Flui			Bit Data		Time An				Hours
	operties		Additives	Number	#9				Drilling		
WT	1000		10L P-safe	Size	96mm				Trips		
VIS	36			Туре	#5				Deviation Su	rvey	
WL		***************************************		Serial No.	3409				Rig Service		0.50
CAKE				Jets	Open				Circ. & Cond	. Mud	0.50
рН				Out At	In				Repair Rig		***************************************
GELS				Hours	13				Run Casing &		
SOLIDS				M/HR	2.5				BOP Handlin	g & Tstg.	0.50
PV				Cum. M	101				Logging		
YP				Cum, Hrs.	34.5				Coring		13.00
% OIL				Cond. T/B/G				11	Formation Ts	stg.	
% SAND				WT. on Bit	3000				Reaming		
CL				RPM	500			13	Recover Cor	es	9.50
<del> </del>	D	eviations	3	Stroke	76			14	Other Act.		
Depth	Deg. D	epth	Degree	Liner	51				Total Hours		24.00
				l/m	40		Other				
				Ann Vel							
				Surf. Press.	70						
DST No.	<del></del>		Formation		Interval	<del></del>	То			Times: IF	
ISI			FF	FSI	-	Press.	: IHP			- FHP	
PF			IFP	FFP		ISIP			FSIP	-	
BHT			Choke	- Results		nano.			•		•
Weather	0	vercast		Temp.	10 C	Roads	Hard				
Remarks: Sar	mple, Core	Desc, Tops	s, Tests, Logs, El	evations, Casing,	Cementing, So	lids Control				String Sequ	uence
Continue o	oring to	271m to 2	292mkB, cut 2	21m,					Tool	Size	Length
recover 21	m, core t	o 305m,	recover 13m.						Mill	96mm	0.11
From 283	to 299mh	(B, very o	dark grey to bl	lack calaraous					X/O	90mm	0.14
dolmite, m	oderatly	strong H2	2S on fresh br	eak. Very little	Э				Barrel	90mm	3.44
fracturing of	or veining	g of core	oolitic texture	S.					X/O	90mm	0.19
Flow check	ks and B	OP drills	are held twice	per tour.					X/O	90mm	0.28
H2S cours	es are be	eing taug	ht as of today	to all crew me	mbers.				H/T Rod	90mm	300
B-14-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1							**************************************		K/D	90mm	0.86
<u> </u>											
		OCCUPATION OF THE PARTY OF THE									
					,,,, , , , , , , , , , , , , , , , , ,	SAME DESCRIPTION OF THE SAME O				T	
							<del>~~~~~~~~</del>			<del> </del>	<del> </del>
www					p				Total Depth	<u> </u>	305mKB
									String Wt.	3500	
Daily Cos	f•	\$7,980.00	Cum.	: \$294,323.00	}	Reported	d Bv:		Ron Range		
Daily 003		ψ1,000.0C	- Guilli	\$207,020.00	-		<b>-</b> - j ·				



WELL NAME:			Delpet Vinla	and Big Spring	g # 1					
Date Depth (0800 hrs) Activity at Report Time			97-06-26			Da	y No.		32	•
Depth (080	00 hrs		328mKB			24 Hr. Pro	ogress	2	23m	
Activity at	Repo	rt Time	Coring			<b></b>				
Rig & Rig	No.		East Coast #	‡2	Grd. Elev.	40.30m		K.B. Elev	<b>v.</b> 44.5mKB	
									•	
		Drilling Flu			Bit Data		Time Anal			Hours
	roperti	es	Additives	Number	#9	#10		1 Drilling		
WT	1000		10L P-safe	Size	96mm	96mm		2 Trips		5.00
VIS	36			Туре	#5	#6		3 Deviation		
WL				Serial No.	3409	3799		4 Rig Servi		0.50
CAKE				Jets	Open	Open		5 Circ. & C		0.50
pH				Out At	319m	<u>In</u>		6 Repair R		0.50
GELS				Hours	7.5	9			ing & Cmtg.	
SOLIDS				M/HR	2.5	2.4			ndling & Tstg.	0.50
PV				Cum. M	115	9		9 Logging		
YP				Cum. Hrs.	46.5	3.8		10 Coring		7.50
% OIL				Cond. T/B/G	N/R			11 Formatio	n Tstg.	
% SAND				WT. on Bit	3000	3000		12 Reaming		
CL				RPM	500	500		13 Recover		9.50
		Deviation	ıs	Stroke	76	76		14 Other Ac	t.	
Depth	Deg.	Depth	Degree	Liner	51	51		Total Ho	urs	24.00
	Jog. Dop.			I/m	40	50	Other			
				Ann Vel						
		***************************************		Surf. Press.	70	70				
DST No.			Formation		Interval		То		Times: IF	
ISI			FF	FSI	***	Press.	: IHP		FHP	
PF	-		IFP	FFP		ISIP		FSIP		
BHT			Choke	Results						
						***************************************				
Weather		Overcast		Temp.	10 C	Roads	Hard			
Remarks: Sa	mple, C	ore Desc, Top	os, Tests, Logs, E	levations, Casing,	Cementing, So	lids Control			Orill String Seq	uence
			recover 5m cc				. , ,	Tool	Size	Length
			ary head. Cor					Mill	96mm	
			er 9m core. E				<del></del>	X/O	90mm	0.14
			bit #9, tie on t			·		Barrel	90mm	
			14mm annulus			·		X/O	90mm	
			core from 319r					X/O	90mm	<del></del>
			From 316mK		**************************************			H/T Rod		
			estone, 1 to 10					K/D	90mm	<del></del>
			cm, change fro							
			astics. Flow c				***************************************			
			er tour. H2S c							
			all crew memb							
Doning taug	, , , , , ,	or today to	CH OLOW HIGHIN				·······			-
						···		Total De	epth	28mKG
					· · · · · · · · · · · · · · · · · · ·			String W		) daN
Daily Cos	4.	\$6.860.0	nn Cum	• \$301 183 00	<u> </u>	Reported	d Bv	Ron Rai		



VVELL N	AIVIE:			and Big Spring	] # 1						
Date Depth (0800 hrs) Activity at Report Time			97-06-27				ay No.		33		
			353mKB			24 Hr. Pro	ogress		25m		·
		ort lime	Survey								
Rig & Ri	ig No.		East Coast #	‡2	Grd. Elev.	40.30m			K.B. Elev.	44.5mKB	
***************************************		D.::::		<del></del>	D'( D (		T				
<u> </u>		Drilling Fl			Bit Data	1 "40	Time Ar				Hours
\A/T	Proper		Additives	Number	#11	#10			Drilling		
WT VIS	1000		10L P-safe	Size	96mm	96mm			Trips		3.00
	37	,		Type	#7	#6	<u> </u>		Deviation Su	rvey	
WL				Serial No.	3353	3799			Rig Service		0.50
CAKE				Jets	Open	Open			Circ. & Cond	. Mud	1.00
pH				Out At	353	353			Repair Rig		
GELS				Hours	1	9			Run Casing 8		
SOLIDS				M/HR	0	2.7			BOP Handlin	g & Tstg.	0.50
PV				Cum. M	0	34			Logging		
YP				Cum. Hrs.	0	12.8			Coring		9.00
% OIL				Cond. T/B/G		-100%			Formation Ts	stg.	
% SAND	)			WT. on Bit	3000	3000			Reaming		1.00
CL				RPM	500	500			Recover Cor	es	9.00
		Deviatio		Stroke	76	76		14	Other Act.		
Depth	Deg	. Depth	Degree	Liner	51	51			Total Hours		24.00
				I/m	40	50	Other				***************************************
				Ann Vel							
				Surf. Press.	70	70					
DST No.			Formation	····	Interval	******	_ To			Times: IF	
ISI			FF	_ FSI		Press.	: IHP			- FHP	
PF			IFP	FFP		ISIP			FSIP		
BHT			Choke	Results							
Weather		Overcast		Temp.	5 C	Roads	Hard				
			ops, Tests, Logs, El		Cementing, So	lids Control				String Sequ	,
			mKB, recover 2						Tool	Size	Length
			mKB, recover 4						Mill	96mm	0.11
			OD, S/B 63mm	, , , , , , , , , , , , , , , , , , , ,					X/O	90mm	0.14
			OH, recover mil						Barrel	90mm	3.44
			n the inside. C				· · · · · · · · · · · · · · · · · · ·		X/O	90mm	0.19
			ore left in hole.			and the same of th			X/O	90mm	
			ey to 353mKB.						H/T Rod	90mm	348
			ght gray limesto						K/D	90mm	0.86
			er medium grey	colitic							
limeston	ie, no vi	sible poros	sity, no shows.	· · · · · · · · · · · · · · · · · · ·							•
								·····			
					<u> </u>				Total Dantis		252-21/0
						i			Total Depth	2000	353mKB
									String Wt.	3800	uan
Daily Co	ost:	t: \$8,000.00 Cum.: \$309,183.00 Reported							Ron Range	•	



WELL NAM	/iE:	Delpet Vinla	nd Big Spring	g # 1					
Date	<u> </u>	97-06-28	T		Da	y No.	34		
Depth (080	0 hrs)	167mKB, 120	0mm hole.		_ 24 Hr. Pro	-	22m		
Activity at	Report Time	Ream from 9	6mm to 120m	m hole.	<del></del>				
Rig & Rig I	No	East Coast #	2	Grd. Elev.	40.30m		K.B. Elev.	44.5mKB	
			.,	•			•		
	Drilling Flu			Bit Data		Time Analy			Hours
	operties	Additives	Number	#11	2-120mm	I	1 Drilling		2.00
WT	1000		Size	96mm	120mm	<u> </u>	2 Trips		8.00
VIS	36		Туре	JKS#7	P-24-3		3 Deviation Su	rvey	1.00
WL			Serial No.	3353	2V8867		4 Rig Service		0.50
CAKE			Jets	Open	Ported		5 Circ. & Cond	. Mud	1.00
pH			Out At	353	ln		6 Repair Rig		
GELS			Hours	1	11		7 Run Casing 8		
SOLIDS			M/HR	0	2		8 BOP Handlin	g & Tstg.	0.50
PV			Cum. M	0	22		9 Logging	***************************************	
YP			Cum. Hrs.	0	11		0 Coring		
% OIL			Cond. T/B/G	1			1 Formation Ts	stg.	· · · · · · · · · · · · · · · · · · ·
% SAND			WT. on Bit	3000	2000		2 Reaming		11.00
CL			RPM	600	500	1	3 Recover Cor	es	
	Deviation		Stroke	76	76	1	4 Other Act.		
Depth	Deg. Depth	Degree	Liner	51	51		Total Hours		24.00
<del></del>			l/m	40	60	Other			
·			Ann Vel			ļ			
	<u> </u>		Surf. Press.	70	350				
DST No.		Formation	<del></del>	_ Interval		_ To		Times: IF	
ISI		FF	_ FSI		Press.:	: IHP		FHP	<u> </u>
PF		IFP	_ FFP		ISIP		FSIP		
BHT		Choke	_ Results			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
manuscrate and a second and a s			OLONO CONTRACTOR CONTR						
144 - 41	0	, , ,	T	45.0	Danda		MANAGEMENT OF THE STATE OF THE		
Weather	Sunny	T(-   F1	Temp.	15 C	Roads	Hard	Deill	String Som	
	mple, Core Desc, To		evations, Casing,	Cementing, So	lias Control		Tool	String Sequential Size	
	survey, recover i						Mill		Length
	an hole, POOH,						R/Shell	96mm	
	4mm casing, cir						X/O	90mm	
	H 120mm casing			)		·		90mm	
	d 96m pilot. Re			3.			R/Shell	90mm	
	mm hole over 96						X/O	90mm	<del></del>
	B. BOP and H2S						Reamer	120mm	0.14
	348mKB to 353						X/O	120mm	0.18
	rey limestone, v		sections			······································	Casing	114mm	
of massive	grey oolitic lime	estone.				w.	K/D	90mm	0.96
								ļ	
***************************************									
							<del> </del>	<u> </u>	407 1/5
							Total Depth		167mKB
				_	P9. 2	I P3	String Wt.	3000	daN
Daily Cost	<b>t:</b> \$7,510.	00 <b>Cum</b>	<b>.:</b> \$316,693.00	)	Reported	ı By:	Ron Range		



WELL NAME:

<b>WELL NA</b>	ME:		Delpet Vinla	and Big Spring	y # 1						
Date Depth (0800 hrs) Activity at Report Time			97-06-29			Da	ay No.		35		
Depth (08	00 hrs	)	206mKB, 12	0mm hole.	· · · · · · · · · · · · · · · · · · ·	24 Hr. Pr	ogress		39m		
Activity at	t Repo	rt Time	Ream from 9	96mm to 120mi	m hole.		_			***************************************	
Rig & Rig			East Coast #	<del>‡</del> 2	Grd. Elev.	40.30m	**************************************		K.B. Elev.	44.5mKB	
					•	***************************************				····	
	Ī	Orilling Fl			Bit Data		Time A	nalys	is		Hours
	ropert	es	Additives	Number	#11			1	Drilling		
WT	1000			Size	96mm			2	Trips		4.00
VIS	34-32	2		Туре	JKS#7			3	Deviation Su	rvey	
WL				Serial No.	3353			4	Rig Service		0.50
CAKE				Jets	Open			5	Circ. & Cond	. Mud	0.50
рН				Out At	353				Repair Rig		
GELS				Hours	1			7	Run Casing 8	& Cmtg.	***************************************
SOLIDS				M/HR	0			8	BOP Handlin	g & Tstg.	1.00
PV				Cum. M	0			9	Logging		
YP				Cum. Hrs.	0			10	Coring	••••	
% OIL				Cond. T/B/G	100%			11	Formation Ts	stg.	
% SAND				WT. on Bit	3000				Reaming	<u> </u>	18.00
CL				RPM	500		<b>-</b>		Recover Cor	es	
		Deviation	ns	Stroke	76			14	Other Act.		
Depth	Deg.	Depth	Degree	Liner	51				Total Hours		24.00
	†	<u> </u>	- S	I/m	40		Other				
	1			Ann Vel		-				***************************************	
N-1	1			Surf. Press.	70					· · · · · · · · · · · · · · · · · · ·	
DST No.		I.,	Formation		Interval		To	~~~~		Times: IF	I
ISI		, i i i i i i i i i i i i i i i i i i i	FF F	FSI	-	Press			ENGLANDO CONTRACTOR CO	FHP	
PF			IFP	 FFP		ISIP			FSIP	•	
BHT			Choke	Results					•	***************************************	•
					***						
					***************************************						
Weather		Sunny		Temp.	15 C	Roads	Hard				
Remarks: Sa	mple, C		pps, Tests, Logs, E		Cementing, So	lids Control			Drill	String Sequ	uence
***************************************			reaming 96mr			***************************************			Tool	Size	Length
	·····		m, 167mKB to 2						Mill	96mm	
			reaming rate 2						R/Shell	90mm	
-:			H2S drills held					-	X/O	90mm	
		every da			,	······································			R/Shell	90mm	
		overy au	3.						X/O	90mm	
									Reamer	120mm	0.14
									X/O	120mm	
									Casing	114mm	
<u></u>									K/D	90mm	
				· · · · · · · · · · · · · · · · · · ·		·····	<del></del>		IND	9011111	0.90
	***************************************										
					·/·				<del> </del>		-
							***********************		Total Dard		0001/5
									Total Depth	0000	206mKB
		Ac		A000 070 1		<b>D</b> · · ·	d D		String Wt.		daN
Daily Cos	ily Cost: \$6,980.00 Cum.: \$323,673.00 Reported								Ron Ranger		



WELL NAI	ΝE:		Delpet Vinla	nd Big Spring	g # 1						
Date Depth (0800 hrs) Activity at Report Time	97-06-30			Da	y No.		36				
Depth (080		Reaming at 2	220mKB	***************************************	_ 24 Hr. Pro	-		14m			
Activity at	Repor	t Time	Ream from 9	6mm to 120m	m hole.	-					
Rig & Rig	No.		East Coast #		Grd. Elev.	40.30m			K.B. Elev.	44.5mKB	
	_				•						····
	D	rilling Flu			Bit Data		Time Anal	ys	S		Hours
	ropertie	s	Additives	Number	3-120	2-120mm			Drilling		2.00
WT	1000			Size	120mm	120mm			Trips		7.00
VIS	31			Type	P-24-3	P-24-3		3	Deviation Su	rvey	
WL				Serial No.	2V8869	2V8867		4	Rig Service		0.50
CAKE				Jets	Ported	Ported		5	Circ. & Cond	. Mud	0.50
рН				Out At	ln	207		6	Repair Rig		3.00
GELS				Hours	9	1		7	Run Casing 8	& Cmtg.	
SOLIDS				M/HR	1.5	2.2		8	BOP Handlin	g & Tstg.	1.00
PV				Cum. M	13	62		9	Logging		
YP				Cum. Hrs.	9	30		10	Coring		
% OIL	1			Cond. T/B/G	<b></b>	-25%		11	Formation Ts	stg.	
% SAND	<u> </u>	······································		WT. on Bit	3000	3000		12	Reaming		10.00
CL				RPM	500	500			Recover Cor	es	
		Deviation	ıs	Stroke	76	76		14	Other Act.		
Depth	· · · · · · · · · · · · · · · · · · ·	Depth	Degree	Liner	51	51			Total Hours	······································	24.00
				l/m	75	70	Other				
	<del>  </del>			Ann Vel							
				Surf. Press.	70	250					
DST No.	1		Formation	100	Interval	1 -00	To		I	Times: IF	I
ISI			FF	FSI		Press.:	_			FHP	
PF			TIFP TIP	- FFP	-	- ISIP			FSIP	- '''	***************************************
BHT			 Choke	_ Results					. '	<del></del>	-
<b>D</b>											
Weather		Sunny		Temp.	20 C	Roads	Hard			**************************************	
			os, Tests, Logs, El						Drill	String Seq	uence
			6mKB to 207n						Tool	Size	Length
			e, POOH 114m						Mill	96mm	
			RIH new 120r				<del></del>		R/Shell	90mm	<del></del>
			repairs to chu						X/O	90mm	<del></del>
			, ream to 210r						R/Shell	90mm	·
Ream 120				III\D.					X/O	90mm	
Tteam 120	min no	6 10 22011	IIVD.				***************************************		Reamer	120mm	
•									X/O	120mm	
										<del></del>	
<del></del>									Casing	114mm	<del></del>
									K/D	90mm	2.96
									ļ		-
									<b>_</b>		ļ
		·							<u></u>		1000 1=
***************************************	····			·		wareness			Total Depth	0.400	220mkB
									String Wt.		daN
Daily Cos	t:	\$5,870.0	00 <b>Cum</b>	<b>.:</b> \$329,543.00	)	Reported	і ву:		Ron Range	r .	



WELL NA	ME:		Delpet Vinla	and Big Spring	g # 1						
Date			97-07-01			Da	ay No.		37		•
Depth (08	00 hrs	)	242mKB			24 Hr. Pro	ogress		22m		
Activity at	t Repo	rt Time	Ream from 9	6mm to 120m	m hole.						
Rig & Rig	No.		East Coast #	<b>‡</b> 2	Grd. Elev.	40.30m			K.B. Elev.	44.5mKB	
		Orilling Fl			Bit Data	<u>.</u>	Time Ar				Hours
	ropert		Additives	Number	3-120				Drilling		2.00
WT	1000			Size	120mm	<u> </u>			Trips		3.00
VIS	31			Type	P-24-3	ļ	<u> </u>		Deviation Su	rvey	
WL	ļ			Serial No.	2V8869	<u> </u>			Rig Service		0.50
CAKE	<del> </del>			Jets	Ported			5 Circ. & Cond. Mud			
pH				Out At	ln				Repair Rig		
GELS				Hours	18				Run Casing 8		
SOLIDS				M/HR	1.5				BOP Handlin	g & Tstg.	0.50
PV				Cum. M	35				Logging		ļ
YP				Cum. Hrs.	27				Coring		<b></b>
% OIL	<u> </u>			Cond. T/B/G					Formation Ts	stg.	
% SAND				WT. on Bit	3000				Reaming	······································	18.00
CL				RPM	500				Recover Cor	es	
		Deviation		Stroke	76			14	Other Act.		
Depth	Deg.	Depth	Degree	Liner	51				Total Hours	***************************************	24.00
NAME OF THE OWNER, THE				l/m	75		Other				
***************************************				Ann Vel							ļ
				Surf. Press.	70						
DST No.		×	Formation	***************************************	Interval		To			_Times: IF	
ISI		MIN A BANK A A A A A A A A A A A A A A A A A A	FF	FSI		_ Press.	: IHP			- FHP	
PF	***************************************		IFP	FFP		ISIP			FSIP		_
BHT			Choke	Results							
PARTICULAR DE LA CONTRACTOR DE LA CONTRA			····				·····				
Weather		Sunny		Temp.	20 C	Roads	Hard		······································		
Remarks: Sa	ample, C	ore Desc, To	ps, Tests, Logs, El	evations, Casing,	Cementing, So	lids Control			Drill	String Seq	uence
		Continue	reaming 96mn	n core hole to	120mm.				Tool	Size	Length
		Ream 22	0mKB to 242m	KB. Replace	6 joints				Mill	96mm	0.11
		of 114mr	n casing with 8	8.9mm drill pip	e.				R/Shell	90mm	0.14
		attemptin	ng to change ar	ny wear spots,	continue				X/O	90mm	0.19
		to caliper	r casing and dr	ill pipe for wea	r on a				R/Shell	90mm	0.26
		regular b	asis.	· · · · · · · · · · · · · · · · · · ·		11.1.1.1.1			X/O	90mm	0.02
									Reamer	120mm	0.14
***************************************					***************************************				X/O	120mm	0.18
					**************************************				Casing	114mm	222.96
							Oromania de La Calabra de Calabra		H/T Rod	90mm	0.18
									K/D	90mm	0.00
									Total Depth	<u> </u>	242mKB
***************************************	***************************************			<u> </u>					String Wt.	3400	) daN
Daily Cos	st:	\$6,620.	00 <b>Cum</b>	.: \$336,163.00	)	Reported	d By:		Ron Rangei		
		,		,			•		J = -		



WELL NAME: Date			Delpet Vinla	nd Big Spring							
Date	Depth (0800 hrs)		97-07-02			Da	ıy No.		38		
Depth (080	00 hrs)		275mKB			24 Hr. Pro			33m	****	
Activity at	Repor	t Time	Ream from 9	6mm to 120m	m hole.	<del></del>					
Rig & Rig	No.		East Coast #	2	Grd. Elev.	40.30m			K.B. Elev.	44.5mKB	
	_				•						
		rilling Flu			Bit Data		Time An	alys	is		Hours
	ropertie	es	Additives	Number	3-120				Drilling		4.00
WT	1000			Size	120mm				Trips		1.00
VIS	31			Туре	P-24-3				Deviation Su	rvey	
WL				Serial No.	2V8869				Rig Service		0.50
CAKE				Jets	Ported				Circ. & Cond	. Mud	0.50
рН				Out At	ln				Repair Rig		
GELS				Hours	17.5				Run Casing		
SOLIDS				M/HR	1.9				BOP Handlir	ng & Tstg.	0.50
PV				Cum. M	68				Logging		
YP				Cum. Hrs.	44.5				Coring		
% OIL				Cond. T/B/G					Formation T	stg.	
% SAND				WT. on Bit	1000			12	Reaming		17.50
CL				RPM	400				Recover Co	es	
		Deviation	าร	Stroke	76			14	Other Act.		
Depth	Deg.	Depth	Degree	Liner	51				Total Hours		24.00
				l/m	70		Other				
				Ann Vel							
				Surf. Press.	500						
DST No.			Formation		Interval		_ To			Times: IF	
ISI			FF	FSI		Press.	: IHP			FHP	
PF			IFP	FFP		_ ISIP			FSIP		
BHT			Choke	Results	-		vanada ka ka ka ka ka ka ka ka ka ka ka ka ka		***************************************	······································	
Weather		Sunny		Temp.	20 C	Roads	Hard		-		
			ps, Tests, Logs, El		Cementing, So	lids Control				String Sequ	
			m hole from 24						Tool	Size	Length
			ds drill pipe, RI					·	Mill	96mm	0.11
			n from 260mKE	3 to 275mKB.		, , , ,			R/Shell	90mm	
			om 265mKB.						X/O	90mm	
Removing	splices	from sur	vey line today.			3.77			R/Shell	90mm	
									X/O	90mm	
						·			Reamer	120mm	0.14
									X/O	120mm	0.18
									Casing	114mm	
									H/T Rod	90mm	
									K/D	90mm	0.96
***************************************									Total Depth	<u> </u>	275mKB
									String Wt.	3550	.1
Daily Con	4.	\$6,410.0	00 <b>Cum</b>	: \$342,573.00	γ	Reported	1 Rv:		Ron Range		
Daily Cos	ι.	φ0,4 IU.(	oo cum		,	izehorie	лыу.		Non Nange	1	



WELL NA	ME:		Delpet Vinla	and Big Spring	g # 1						
Date			97-07-03			Da	ay No.		39		
Depth (08	00 hrs	)	300mKB			24 Hr. Pro	ogress		25mKB		
Activity at	Repo	rt Time	Ream from 9	6mm to 120m	m hole.		_		k		
Rig & Rig	No.		East Coast #	‡2	Grd. Elev.	40.30m			K.B. Elev.	44.5mKB	
					•			***************************************	•		
	I	Orilling FI	uid		Bit Data		Time Ar	alys	is		Hours
Р	ropert	ies	Additives	Number	3-120			1	Drilling		3.50
WT	1000			Size	120mm			2	Trips		5.50
VIS	32			Туре	P-24-3			3	Deviation Su	rvey	
WL				Serial No.	2V8869			4	Rig Service		0.50
CAKE				Jets	Ported			5	Circ. & Cond	l. Mud	0.50
рН				Out At	ln			6	Repair Rig		
GELS				Hours	13.5			7	Run Casing	& Cmtg.	
SOLIDS				M/HR	1.9			8	BOP Handlir	ng & Tstg.	0.50
PV				Cum. M	93			9	Logging		
YP				Cum. Hrs.	58			10	Coring		
% OIL				Cond. T/B/G				11	Formation T	stg.	
% SAND				WT. on Bit	1000			12	Reaming		13.50
CL	***************************************			RPM	350			13	Recover Cor	es	
		Deviation	ns	Stroke	76			14	Other Act.		
Depth	Deg.	Depth	Degree	Liner	51				Total Hours		24.00
· · · · · · · · · · · · · · · · · · ·	<u> </u>			I/m	70		Other				
<del> </del>				Ann Vel							
				Surf. Press.	600						
DST No.		<del></del>	Formation		Interval		То			Times: IF	
ISI			FF	FSI	-	Press.	: IHP		***************************************	FHP	
PF	· · · · · · · · · · · · · · · · · · ·		IFP								
BHT		***	Choke	 Results					-		-
						MORENICE/CERCITATION					
Weather		Rain		Temp.	10 C	Roads	Hard				
Remarks: Sa	mple, C	ore Desc, To	ps, Tests, Logs, El	evations, Casing,	Cementing, So	lids Control		********	Drill	String Seq	uence
			reaming, 275n				ange		Tool	Size	Length
		in string	weight, lay dow	n split joint (ca	sing box sp	lit vertically	·).		Mill	96mm	
			nill, continue rea						R/Shell	90mm	<del></del>
***************************************		Delpet R	esources have	accepted two	Petroleum s	tudents fro	m		X/O	90mm	1
***************************************			ge of the North						R/Shell	90mm	1
			k commitment f						X/O	90mm	4
				<u> </u>					Reamer	120mm	
		· · · · · · · · · · · · · · · · · · ·	unation of the second s						X/O	120mm	
***************************************	***************************************								Casing	114mm	
***************************************	·	······································	,						H/T Rod	90mm	
······					(APP 1 AC 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				K/D	90mm	
<del></del>									100	00171111	1.50
***************************************	MAGNET										
			,						Total Depth	.1	300mKB
									String Wt.	3700	daN
Daily Cos		\$6,510.	00 <b>Cum</b>	: \$349,083.00	<u> </u>	Reported	d Rv:		Ron Range		July
Daily COS	٠	φυ,υ τυ.	.oo Guiii	ψυ <del>πυ</del> ,υυυ.υι	,	170hoi 160	<i>у</i> .		.vii ivange	•	



WELL NA	AME:			and Big Spring	3#1						
Date	-		97-07-04				ay No.		. 40		
Depth (08			318mKb			_24 Hr. Pro	ogress		18mKB		
Activity a	-	rt Time		96mm to 120m							
Rig & Rig	j No.		East Coast	#2	Grd. Elev.	40.30m			K.B. Elev.	44.5mKB	
**************************************											
		Orilling Fl			Bit Data		Time Ar				Hours
	Properti		Additives	Number	3-120			·	Drilling		3.00
WT	1000			Size	120mm				Trips		
VIS	32			Туре	P-24-3				Deviation Sur	vey	
WL				Serial No.	2V8869	ļ			Rig Service		0.50
CAKE				Jets	Ported	ļ			Circ. & Cond.	Mud	0.50
рН				Out At	ln				Repair Rig		
GELS				Hours	19.5				Run Casing 8		
SOLIDS				M/HR	1		<u> </u>		BOP Handlin	g & Tstg.	0.50
PV				Cum. M	111				Logging		
YP				Cum. Hrs.	77.5		<u> </u>	******	Coring		
% OIL				Cond. T/B/G					Formation Ts	tg.	
% SAND				WT. on Bit	850				Reaming		19.50
CL				RPM	275/350				Recover Core	es	
		Deviation		Stroke	76			14	Other Act.		
Depth	Deg.	Depth	Degree	Liner	51				Total Hours		24.00
				I/m	70		Other				
				Ann Vel							
W				Surf. Press.	600				<u> </u>		
DST No.			Formation		Interval		To			Times: IF	
ISI			FF	FSI		Press.	: IHP			. FHP	
PF			IFP	FFP		ISIP	<u> </u>		FSIP		
BHT			Choke	Results					***************************************		
***************************************						· · · · · · · · · · · · · · · · · · ·					
Weather		Rain	44-44-44-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4	Temp.	2 C	Roads	Hard				
	ample C		ins. Tests. Logs. F	levations, Casing,					Drill :	String Sequ	Jence
				00mKB to 310m					Tool	Size	Length
				string. Ream h			***************************************		Mill	96mm	
				ole to 352mKB.					R/Shell	90mm	
				on open hole o	nlv.				X/O	90mm	<del> </del>
					- · · · · · · · · · · · · · · · · · · ·				R/Shell	90mm	<u> </u>
Geo:	A ma	ssive oiliti	ic limestone w	ith vertical calci	te				X/O	90mm	
				al cleavage, ma			······································		Reamer	120mm	
		ery slow m							X/O	120mm	
	101 1	ory 0.011 11	g.						Casing	114mm	
Note:	Rota	ry rin at 90	00mKB at 3m/	hour at this inte	rval				H/T Rod	90mm	
-110101		, ,	m/hour at 10:					***************************************	K/D	90mm	1.96
		ation is a p		30 1100101							1.00
***************************************	VIDIC	ation to a p							·		<del> </del>
		MORTON TO THE TOTAL THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE T									
									Total Depth		300mKE
									String Wt.		DAN

WELL NA	ME:			and Big Spring	j # 1						
Date			97-07-05				ay No.		. 41		
Depth (08			334 mKB			24 Hr. Pr	ogress		16 mm		
Activity at		rt Time		96 mm Hole to							
Rig & Rig	No.		East Coast #	#2	Grd. Elev.	40.30m			K.B. Elev.	44.5mKB	
				_						···········	
		Orilling FI		<u></u>	Bit Data		Time Ana				Hours
	roperti		Additives	Number	3-120				Drilling		2.50
WT	1000		P-Safe 5 L	Size	120mm				Trips		5.75
VIS	32			Туре	P-24-3				Deviation Sur	rvey	
WL	ļ			Serial No.	2V8869	ļ			Rig Service		0.50
CAKE	ļ			Jets	Ported	<u> </u>			Circ. & Cond.	. Mud	0.50
pH				Out At	In_				Repair Rig		
GELS	ļ			Hours	14.5				Run Casing 8		
SOLIDS				M/HR	1.2				BOP Handlin	g & Tstg.	0.50
PV				Cum. M	125.5				Logging		
YP				Cum. Hrs.	92				Coring	w	
% OIL	ļ			Cond. T/B/G	-50%				Formation Ts	itg.	
% SAND	<u> </u>			WT. on Bit	1000				Reaming		14.50
CL	<u> </u>			RPM	500				Recover Core	es	
		Deviation		Stroke	76			14	Other Act.		
Depth	Deg.	Depth	Degree	Liner	51				Total Hours		24.00
				l/m	70		Other				
				Ann Vel							
				Surf. Press.	700						
DST No.			Formation		_ Interval		То			Times: IF	
ISI			FF	FSI	-	Press	.: IHP			FHP	
PF			IFP	FFP		ISIP			FSIP	-	
BHT			Choke	Results					-		
Weather		Rain		Temp.	17 C	Roads	Hard				
Remarks: Sa	mple, Co	ore Desc, To	ps, Tests, Logs, E	levations, Casing, 0	Cementing, So	lids Control			Drill	String Sequ	ience
									Tool	Size	Length
Ream 96	mm ho	le to 120 r	mm hole from 3	18 mKB to 827	mKB. Swe	ep hole wi	th		Mill	96mm	0.11
HiVisc. pil	I. POC	)H joint #1	19; 114 mm cas	ing showing fla	at side at up	set; remov	e from string	3	R/Shell	90mm	0.14
				120 mm mill a					X/O	90mm	0.11
				nd first 4 mm fr					Reamer	90mm	0.14
				ot stinger to 0.5					X/O	114 mm	0.18
				-8 JKS). Utilize					Casing	114 mm	306
				334 mKB; RO			ore		H/T Rod	90 mm	27
			fter shortening						K/D	90 mm	0.41
560 m of u					······································	*************************					4,,,
					······································		· · · · · · · · · · · · · · · · · · ·				
									<del> </del>	1	
<del></del>						·····					
<del></del>						····			Total Depth	1	1 334 mKE
					***************************************				String Wt.		DAN
Dallero	.4.	67.040	00 0	. 6000 700 00	·	Reporte	d Dva		Ron Ranger		DAIN
Daily Cos	s C.	\$7,210.	.00 <b>Cum</b>	.: \$362,703.00	)	Kehoue	u by.		Kon Kanger		

<b>WELL NA</b>	ME:		Delpet Vinla	Delpet Vinland Big Spring # 1											
Date Depth (0800 hrs)		July 6, 1997			Da	y No.	42								
Depth (08	00 hrs	)	352.5 mKB			24 Hr. Pro	gress	18 mm							
Activity at	t Repo	rt Time	Ream from 9	6 mm Hole to	120 mm Ho	Īe				., .					
Rig & Rig	No.		East Coast #	2	Grd. Elev.	40.30m		K.B. Elev.	44.5mKB						
										74W4-10					
		Drilling Fl			Bit Data	-	Time Analys	***************************************		Hours					
	roperti		Additives	Number	3-120	2-120mm	4	Drilling		3.00					
WT	1000		P-Safe 5 L	Size	120mm	120mm		Trips	1040	4.25					
VIS	31			Туре	P-24-3	P-24-3		Deviation Su	rvey						
WL				Serial No.	2V8869	2V8867		Rig Service		0.50					
CAKE	<u> </u>			Jets	Ported	Ported		Circ. & Cond	. Mud	0.75					
рН	_			Out At	352.5	207		Repair Rig		0.25					
GELS				Hours	15	1 1		7 Run Casing & Cmtg.							
SOLIDS				M/HR	1.2	2.2		BOP Handlir	ng & Tstg.	0.25					
PV				Cum. M	143.5	62		Logging							
YP				Cum. Hrs.	107	30		Coring							
% OIL				Cond. T/B/G	-50	-25%		Formation T	stg.						
% SAND				WT. on Bit	1000	3000		Reaming		15.00					
CL				RPM	500	500		Recover Cor	es						
		Deviatio	ns	Stroke	76	76	14	Other Act.							
Depth	Deg.	Depth	Degree	Liner	51	51		Total Hours		24.00					
				l/m	70	70	Other								
				Ann Vel											
		353	53 0.03 Su	Surf. Press.	700	250									
DST No.			Formation		Interval		To		_Times: IF						
ISI			FF	FSI	_	Press.:	: IHP		FHP						
PF			IFP	FFP _		ISIP		FSIP							
BHT			Choke	Results											
Weather		Sunny		Temp.	17 C	Roads	Hard								
Remarks: Sa	ample, C	ore Desc, To	ops, Tests, Logs, E	evations, Casing, (	Cementing, So	lids Control			String Seq	uence					
								Tool	Size	Length					
08:00 Hr.		Ream 96	6 mm hole to 12	0 mm hole from	n 334 mKB	to 342.5 ml	≺B.	Mill	96mm	0.11					
15:30 Hr.		Main ro	tary belt broke,	Ensure clean h	nole.			R/Shell	90mm	0.14					
		POOH t	to land mill asse	embly at surfac	e shoe. Ne	w belt on lo	cation.	X/O	90mm	0.02					
		RIH to 3	42.5 mKB. Lay	down 3 joints	(worn box e	nds).		Reamer	120	0.14					
								X/O	114 mm	0.16					
20:15 Hr.		Comple	ete installation o	of main drive be	elt.			Casing	114 mm	303					
24:00 Hr.		Ream I	hole from 342.5	mKB to 345.0	mKB.			H/T Rod	90 mm	48					
08:00 Hr.		TD 96 m	nm hole to 353 r	nKB, 120 mm l	hole to 352.	5 mKB.		K/D	90 mm	0.91					
***************************************															
****															
								Total Depth		52.5 mKB					
								String Wt.		DAN					
Daily Cos	st:	\$6,410	.00 <b>Cum</b>	.: \$369,113.00	)	Reported	l By:	Ron Range	r						

WELL NAI	ME:		Delpet Vinla	Delpet Vinland Big Spring # 1										
Date			97-07-07			Da	ıy No.	43		•				
Depth (080	00 hrs	)	353 mKB (96	6 mm)		24 Hr. Pro	gress	0						
Activity at		rt Time		lipple down BC		•								
Rig & Rig	No.		East Coast #	<b>‡</b> 2	Grd. Elev.	40.30m		K.B. Elev.	44.5mKB					
							Y							
		Drilling Flu		<u> </u>	Bit Data	·	Time Analys			Hours				
	ropert		Additives	Number	#12			Drilling		10 50				
WT	1000			Size	96 mm			Trips		10.50				
VIS	31			Type	Series 8			Deviation Sur	vey					
WL	ļ			Serial No.	JKS73354			Rig Service		2.50				
CAKE	<u> </u>		<u> </u>	Jets	Open			Circ. & Cond.	Mud	0.50				
pH				Out At				Repair Rig						
GELS	ļ			Hours				Run Casing 8		2.00				
SOLIDS	ļ	· · · · · · · · · · · · · · · · · · ·	<b></b>	M/HR				BOP Handlin	g & Tstg.					
PV	ļ			Cum. M				Logging						
YP				Cum. Hrs.				Coring						
% OIL	ļ			Cond. T/B/G				Formation Ts	tg.	<u> </u>				
% SAND	ļ			WT. on Bit		ļ		Reaming						
CL				RPM Stroke	500 76			Recover Core						
		Deviation	<del></del>	76	14	Other Act. (V	VOC)	11.00						
Depth	Deg.	Depth	Degree	Liner	51	51								
****				I/m	70	70	Other							
				Ann Vel										
				Surf. Press.	700	250		Total Hours	·	24.00				
DST No.			Formation		Interval		_ To	***************************************	Times: IF	***************************************				
ISI			FF	FSI	***************************************	Press.	: IHP		FHP					
PF			IFP	FFP		ISIP		FSIP	·	_				
BHT		-	Choke	Results										
				OLIVA AND THE OWN THE										
				Nga	47.0	Danda	I be well							
Weather		Sunny		Temp.	17 C	Roads	Hard	D.:U	Ctulus as Cons					
Remarks: Sa	mple, C	ore Desc, Top	os, Tests, Logs, E	levations, Casing,	Cementing, Sol	ids Control	·		String Seq Size	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				
00.00 11.	TD	O l l -	4- 050 KD: 7	FD 400 h-l	la ta 050 5 m	VD Face	as bala slage	Tool		Length				
08:00 Hr.				TD 120 mm ho				.1	96mm					
14:00 Hr.				120 mm casing				R/Shell	90mm					
17:00 Hr.				ng shoe at 352.				X/O	90mm					
17:30 Hr.				gree C water,					120					
				ent to yield 0.85			rry. Preflush	X/O	114 mm					
				np 0.85 m3 slur				Casing	114 mm					
				ting casing - S					90 mm					
			0.10 m3 slurry	returns to surfa	ace. Pull 15	uu dan ten	ision into casin	K/D	90 mm	3.80				
00.00.11	WOO						***************************************							
08:00 Hr.	WOO	SICHP 1	ьикра.						ļ					
		4				····								
				***************************************				Total Depth	1 2	<u> </u> 51.8 mKB				
<del></del>						·		String Wt.		DAN				
Daily Cos	+•	\$7,210.0	00 <b>Cum</b>	.: \$376,323.00	```	Reported	l Rv.	Ron Ranger		DAN				
Daily COS	L.	$\varphi_I, \angle IU.$	o Cum	word, 323.00	,	Vehouse	. <b>-</b> у.	won wanger						



WELL NA	VIE:		Delpet Vinla	nd Big Spring	g <b>#</b> 1						
Date			97-07-08			Da	y No.		44		
Depth (080			358mKB			_24 Hr. Pro	gress		5		
Activity at	-	rt Time	Resume Cor								
Rig & Rig	No.		East Coast #	2	Grd. Elev.	40.30m			K.B. Elev.	44.5mKB	
				1			T=-: -				
	***************************************	Prilling Flu		NI. sárla a s	Bit Data	·	Time An				Hours
	roperti	es	Additives	Number	#12				Drilling		
WT VIS	1000			Size	96 mm		-		Trips		9.00
WL	31			Type Serial No.	Series 8 JKS73354				Deviation Sur	vey	0.50
CAKE				Jets	. <del></del>	<u> </u>			Rig Service Circ. & Cond.	Mud	0.50
pH				Out At	Open In	ļ			Repair Rig	. iviuu	
GELS			<u> </u>	Hours	3.75		<u> </u>		Run Casing 8	2. Crota	
SOLIDS				M/HR	1.3				BOP Handlin		6.75
PV		••••		Cum. M	5				Logging	g & rsig.	0.75
YP	<u> </u>			Cum. Hrs.	3.75		<del> </del>		Coring		3.75
% OIL	<del>                                     </del>		<u> </u>	Cond. T/B/G			<del> </del>		Formation Ts	ta	3.73
% SAND	<del> </del>			WT. on Bit	1000		_		Reaming	ntg.	
CL	<del> </del>			RPM	600		<del> </del>		Recover Core	26	1.00
<u> </u>		Deviation		Stroke	76	<del> </del>	+		Other Act. (V		3.00
Depth	Deg.	Depth	Degree	Liner	51		<b>-</b>		Other rice (v	100)	0.00
54	0.75	141	0.25	I/m	45		Other				
95	0.50	193	0.25	Ann Vel	10		101101		****		
121	0.25	353	0.03	Surf. Press.	800		<del>-  </del>		Total Hours		24.00
DST No.				100111	Interval		То		1.0.0	Times: IF	
ISI		<del>'</del>	FF	FSI	_	Press.				- FHP	
PF			IFP —	FFP		ISIP			FSIP	-	
BHT			Choke	Results	,		wait and the state of the state		•	H	•
	te pun	np pressure		ACHP at 5000	kpa, with 10	000 kg/m3 v	water at 35	8 ml	KB.		·····
		p strokes a		,	····						
Weather	·····	Sunny		Temp.	20 C	Roads	Hard				***************************************
Remarks: Sa	mple, Co	ore Desc, Top	s, Tests, Logs, El	evations, Casing,	Cementing, So	lids Control			Drill	String Seq	uence
08:00 hou				s, pull 1500 d					Tool	Size	Length
		Cut and tr	im 114mm cas	sing, install pri	mary seal. I	nstall casir	ng				
,		intermedia	ate head crown	type SF, 14n	npa x 179mr	n,			Mill	96mm	0.11
	······································	serial # 69	9474-05, ceme	ent top 0.60m b	oelow surfac	e casing he	ead.		STUB	90mm	0.14
<b>V</b>		Nipple up	BOP stack, Pa	T primary sea	I to seconda	ry seal to			C/BBL	90mm	3.44
	***************************************	12,000kpa	a. Pressure te	st blind rams t	o 114mm ca	asing head	to		X/O	90mm	0.18
15:00 hou	rs	13,500kpa	a, good test. F	RIH 7 stands, l	ay down 42	joints H/T			X/O	90mm	0.26
18:00 hou	rs	drill pipe,	make up BHA	, RIH on 90mn	n H/T pipe, l	ocate			H/T Rod	90mm	351
	hard cement at 351								K/D	90mm	2.87
24:00 hours 8000kpa annular to				kpa. Core ahe	ead to 358n	nKB, recove	er				
08:00 hou	rs	5m core, i	no leakoff at 5	00kpa, gradier	nt to 23.77 k	pa/m.					
						·			Total Depth		358mKB
									String Wt.		DAN
Daily Cos	t:	\$42,060.0	0 Cum	.: \$418,383.00	0	Reported	d By:		Ron Ranger		



WELL NAME:

Date 97-07- 09 Day No. 45  Depth (0800 hrs) 359mKB 24 Hr. Progress  Activity at Report Time Complete repairs on rotary drive chuck	
Activity at Report Time Complete repairs on rotary drive chuck	
D 0 D 1 D 0 D 1 D 10 D 1 D 10 D 10 D 10	
Rig & Rig No. East Coast #2 Grd. Elev. 40.30m K.B. Elev. 44.5mKB	
Drilling Fluid Bit Data Time Analysis Hou	rs
, , , , , , , , , , , , , , , , , , ,	1.00
WT         1000         Size         96 mm         2 Trips	
VIS 31 Type Series 8 3 Deviation Survey	
	0.50
	0.50
	1.00
GELS Hours 4 7 Run Casing & Cmtg.	
SOLIDS M/HR 2.1 8 BOP Handling & Tstg.	
PV         Cum. M         6         9 Logging	
	1.00
% OIL Cond. T/B/G 11 Formation Tstg.	
% SAND   WT. on Bit   1000   12 Reaming	
CL RPM 500 13 Recover Cores	
DeviationsStroke7614 Other Act. (WOC)	
Depth Deg. Depth Degree Liner 51	
Ann Vel	
	4.00
DST No. Formation Interval To Times: IF	
ISI FF FSI Press.: IHP FHP	
PF IFP FFP ISIP FSIP	
BHT Choke Results	
Reduce rate pump pressure at 400 kpa MACHP at 5000 kpa, with 1000 kg/m3 water at 358 mKB.	
Reduce rate pump strokes at 36.	
Weather Sunny Temp. 15 C Roads Hard	
Remarks: Sample, Core Desc, Tops, Tests, Logs, Elevations, Casing, Cementing, Solids Control Drill String Sequence	e
08:00 hours	gth
11:00 hours Core from 358mKB to 359mKB, recover 1.0m core	
	0.11
24:00 hours Wait on repairs. STUB 90mm	0.14
08:00 hours Complet repairs, ready to core at 08:00 hours, 09-07-97. C/BBL 90mm	3.44
X/O 90mm	0.18
X/O 90mm	0.26
H/T Rod 90mm	352
K/D 90mm	2.87
	***************************************
Total Depth 359	mkB
String Wt. 4400 DAN	V
Daily Cost: \$3,410.00 Cum.: \$421,793.00 Reported By: Ron Ranger	



WELL NAME:		Delpet Vinla	Delpet Vinland Big Spring # 1									
Date			97-07-10			Da	y No.	46				
Depth (08	00 hrs	)	392mKB			24 Hr. Pro	gress	33m				
-	-	rt Time		n hole, recover								
Rig & Rig	No.		East Coast #	<b>‡</b> 2	Grd. Elev.	40.30m		K.B. Elev.	44.5mKB			
		Orilling Flu			Bit Data	T	Time Analys			Hours		
	roperti		Additives	Number	#12			Drilling		3.00		
WT	1000			Size	96 mm			Trips				
VIS	31			Туре	Series 8			Deviation Su	rvey			
WL	ļ			Serial No.	JKS73354			Rig Service	0.50			
CAKE	<del> </del>	·		Jets	Open		1	Circ. & Cond	. Mud			
pH	<u> </u>			Out At	ln		. ]	Repair Rig				
GELS	<u> </u>			Hours	16			Run Casing &				
SOLIDS				M/HR	2			BOP Handlin	g & Tstg.			
PV				Cum. M	39			Logging				
YP				Cum. Hrs.	20.25			Coring		16.00		
% OIL				Cond. T/B/G				Formation Ts	itg.			
% SAND				WT. on Bit	1000			Reaming				
CL				RPM	400			Recover Cor		4.50		
,		Deviation		Stroke	76		1.	Other Act. (\	NOC)			
Depth	Deg.	Depth	Degree	Liner	51							
				I/m	45		Other		····			
				Ann Vel								
P	<u> </u>			Surf. Press.	700	<u> </u>		Total Hours	·	24.00		
DST No.			Formation		Interval		_ To	<b></b>	Times: IF			
ISI			FF	FSI	***************************************	Press.	: IHP	,	FHP	-		
PF			IFP	FFP		ISIP		FSIP	<b></b>			
BHT			Choke	Results						** *		
				IACHP at 5000			water at 358 r	nKB.				
Reduce ra	te pun		at 36. Maxii	mum gradient a								
Weather		Overcast		Temp.	10 C	Roads	Hard					
Remarks: Sa	mple, C	ore Desc, Top	os, Tests, Logs, E	evations, Casing,	Cementing, Soli	ds Control			String Seq			
								Tool	Size	Length		
08:00 hou	rs		ompleted as o									
				ver 63mm core	from 359mł	KB to 382m	KB.	Mill	96mm			
24:00 hou		Recover		<u> </u>				STUB	90mm			
08:00 hou	rs	Core from	382mKB to 3	92mKB, recove	er 10m core			C/BBL	90mm	3.44		
				d, but the retair		too		X/O	90mm	0.18		
				st it ( so it seer	·			X/O	90mm			
	***			etainer ring loc				H/T Rod	90mm			
				ng core recove				K/D	90mm	2.87		
		There is a	a stripper on th	ne pipe to preve	ent any bebr	is going do	wn the hole.					
										<u></u>		
								Total Depth		382 mKB		
								String Wt.		DAN		
Daily Cos	it:	\$6,510.0	00 <b>Cum</b>	.: \$428,303.00	)	Reported	By:	Ron Rangei	•			



WELL NA	ME:		Delpet Vinla	nd Big Spring	g # 1					
Date			97-07-11		<del></del>	Da	ay No.	47	······································	
Depth (08	00 hrs	)	414mKB			24 Hr. Pro	ogress	20m		******
Activity a	t Repo	rt Time	Complete Su	irvey	".···	-				
Rig & Rig	No.		East Coast #	2	Grd. Elev.	40.30m		K.B. Elev.	44.5mKB	
		Orilling Flo			Bit Data		Time Analy			Hours
	<sup>o</sup> roperti		Additives	Number	#12			Drilling		2.00
WT	1000		None	Size	96 mm			2 Trips		
VIS	31			Туре	Series 8			B Deviation Su	rvey	2.00
WL				Serial No.	JKS73354			Rig Service		0.50
CAKE				Jets	Open			Circ. & Cond	. Mud	
рН		ORDER DE LA CONTRACTION DE LA		Out At	ln			Repair Rig		11.50
GELS				Hours	4.5			Run Casing 8		
SOLIDS		·		M/HR	4.4			BOP Handlin	g & Tstg.	
PV				Cum. M	59			Logging		
YP				Cum. Hrs.	24.75			Coring		4.50
% OIL				Cond. T/B/G				1 Formation Ts	stg.	
% SAND				WT. on Bit	2500			2 Reaming		
CL				RPM	500			Recover Cor		3.50
		Deviation	ns	Stroke	76		1.	4 Other Act. (\	NOC)	
Depth	Deg.	Depth	Degree	Liner	51					
			0.25	l/m	50		Other			
			0.25	Ann Vel						
			0.25	Surf. Press.	700			Total Hours		24.00
DST No.			Formation		Interval		_ To		_Times: IF	
ISI			FF	FSI		_ Press.	: IHP		_ FHP	
PF			IFP	FFP	-	ISIP		FSIP		_
BHT			Choke	Results						
Reduce ra	ate pun	np pressur	e at 400 kpa M	ACHP at 4438	kpa, with 1	000 kg/m3	water at 414 r	nKB.		
Reduce ra	ate pun	np strokes	at 38. Maxir	num gradient a	at 20.53 kpa	/m.				
Weather		Sunny		Temp.	15 C	Roads	Hard			
Remarks: S	ample, C	ore Desc, To	ps, Tests, Logs, El	evations, Casing,	Cementing, So	lids Control			String Sequ	uence
								Tool	Size	Length
08:00 hou	ırs	Mill 96mr	m hole to 63mn	n, core from 39	2 mKB to 3	94 mKB,				
09:00 hou	urs	Recover	2m core.					Mill	96mm	
20:30 hou	urs		ead slip retaine					STUB	90mm	
24:00 hou	urs	Core fror	n 394 mKB to 4	102 mKB, reco	ver 8m core			C/BBL	90mm	3.44
06:00 hou	urs	Core fror	m 402 mKB to 4	114 mKB, reco	ver 12m cor	e.		X/O	90mm	0.18
		Survey a	at 414 mKB, sh	ows 1 degrees	deviation.			X/O	90mm	0.26
	······································	Weight in	ndicator now fu	nctional.				H/T Rod	90mm	408
		560m us	able core recov	ery line availa	ble.			K/D	90mm	1.87
	**** From 411.12mKB to 413.									
				fissle, modera	atly hard, we	II develope	d fine laminat	е		
**** From 354mKB to 41				2mKB.						
		Limestor	ne: same as pr	ior depths, rep	orts to follow	٧				
***************************************			tive clays show				creased to 32,	Total Depth		414mKE
***************************************			ome swelling a					String Wt.	4900	daN
				ne swelling and sticking.						
Daily Co	st:	\$4.885.	.00 <b>Cum</b>	.: \$433,188.0	0	Reporte	d By:	Ron Range	r	

WELL NAME: Date Depth (0800 hrs)			Delpet Vinla	nd Big Spring	ı # 1						
Date			97-07-12			Da	y No.		48		
Depth (080	00 hrs		449mKB			24 Hr. Pro	gress		35m		
Activity at	Repo	rt Time		hole, recover		,					
Rig & Rig	No.		East Coast #	2	Grd. Elev.	40.30m			K.B. Elev.	44.5mKB	
-		Prilling Flu	i al	<u> </u>	Bit Data	<del></del>	Time Ass	l		·····	Illarina
D	roperti		Additives	Number	#12	T	Time Ana		<b>S</b> Drilling		<b>Hours</b> 3.50
WT	1000		5 L	Size	96 mm				Trips		3.50
VIS	33		Polysafe		Series 8		ļ		Deviation Sur	7.07.4	
WL	33	····	Folysale	Type Serial No.	JKS73354				Rig Service	vey	0.50
CAKE	ļ			Jets					Circ. & Cond.	Mud	1.75
			<u> </u>	Out At	Open In				Repair Rig	Muu	1.75
pH GELS			·				<b>_</b>		Run Casing 8	Conta	1.20
				Hours	12						
SOLIDS	<u> </u>	· · · · · · · · · · · · · · · · · · ·		M/HR	2.7			**********	BOP Handlin	g & rsig.	
PV	ļ			Cum. M	94				Logging		40.00
YP	<u> </u>			Cum. Hrs.	36.75				Coring	,	12.00
% OIL				Cond. T/B/G	4500				Formation Ts	tg.	
% SAND				WT. on Bit	1500	<u> </u>			Reaming		5.00
CL	<u> </u>		<u> </u>	RPM	500				Recover Core		5.00
	T	Deviation		Stroke	76 51			14	Other Act. (V	VOC)	
Depth											
	ļ			I/m	55	<u> </u>	Other				
				Ann Vel							
	<u> </u>		<u> </u>	Surf. Press.	2500	<u></u>	<u> </u>		Total Hours		24.00
DST No.		***************************************	_ Formation		<del>-</del>		To			Times: IF	<del></del>
ISI			_ FF	- FSI		Press.:	: IHP		Part of the second seco	FHP.	
PF			IFP	FFP		ISIP			FSIP		-
BHT			Choke	_ Results							
				MACHP at 409			water at 4	49 r	nKB.		
Reduce ra	te pun	·	at 32. Maxir	num gradient a							
Weather		Sunny		Temp.	17 C	Roads	Hard		·		
Remarks: Sar	mple, C	ore Desc, Top	s, Tests, Logs, El	evations, Casing, o	Cementing, Soli	ids Control	****************		<del></del>	String Seq	
							****		Tool	Size	Length
08:00 hour	rs			er 63mm core			<В. 				
				safe, from 30					Mill	96mm	<del></del>
				sticking to clay	ys and shale	from swell	ing		STUB	90mm	
19:00 hour	rs	Towards 4							C/BBL	90mm	
20:30 hour	rs			line, utilize flui		ve.	***************************************	HOREZAWSKAN	X/O	90mm	<del></del>
22:30 hour	rs	Cut and re	ecover core fro	m 429mKB to	432mKB.				X/O	90mm	0.26
24:00 hour	rs			ms on rotary c					H/T Rod	90mm	444
1:00 hours	3	Cut and re	ecover core fro	m 432mKB to	449mKB.				K/D	90mm	0.87
08:00 hour	rs	35m core	recovered.								
••••		Up to 447	.30mKB:								
***************************************		Limestone	e Dolmite inter	bedded with B	lack Shale p	artings.					
Cabot College students released 11-07-97. Student Jeff Gange asked for						sked for		Total Depth		449mKB	
····	confi	dential wel	l data, as he w	as instructed t	o do so by E	Bob Harvey	, for Thesis	5.	String Wt.	5300	daN
Daily Cos		\$6,860.0				Reported			Ron Ranger		



WELL NAME:

WELL NA	VE:		Delpet Vinla	nd Big Spring	j # 1						
Date	Date Depth (0800 hrs) Activity at Report Time		97-07-13			Da	y No.		49	TOWN ASSESSMENT OF THE PARTY OF	•
Depth (080	ate epth (0800 hrs)		477mKB			24 Hr. Pro	gress		28m		***************************************
Activity at	ctivity at Report Time g & Rig No.			hole, recover	63mm core						
Rig & Rig	No.		East Coast #	2	Grd. Elev.	40.30m			K.B. Elev.	44.5mKB	
V											
		Orilling Flu			Bit Data		Time Ana				Hours
	roperti		Additives	Number	#12				Drilling		3.50
WT	1000		5 L	Size	96 mm				Trips		
VIS	33		Polysafe	Туре	Series 8				Deviation Su	rvey	
WL				Serial No.	JKS73354				Rig Service		0.50
CAKE				Jets	Open				Circ. & Cond	. Mud	1.00
pH	ļ			Out At	<u>In</u>				Repair Rig		8.00
GELS	<u> </u>			Hours	8				Run Casing a		
SOLIDS			<u> </u>	M/HR	4.8			_	BOP Handlin	g & Tstg.	
PV				Cum. M	122				Logging		
YP				Cum. Hrs.	42.75				Coring	6.00	
% OIL				Cond. T/B/G					Formation Ts	stg.	
% SAND				WT. on Bit	1200		<u> </u>		Reaming		
CL				RPM	500				Recover Cor		5.00
		Deviations	<u> </u>	Stroke	76			14	Other Act. (\	NOC)	
Depth	Deg.										
***************************************				l/m	60		Other				
				Ann Vel			<u> </u>				
***************************************			<u> </u>	Surf. Press.	2500				Total Hours		24.00
DST No.			_Formation		_		To			_Times: IF	
ISI			FF	_ FSI	<u> </u>	Press.	: IHP			- FHP	
PF			IFP	FFP		ISIP			FSIP		-
BHT			Choke	Results							
			at 1200 kpa N				3 water at 4	47 r	nKB.		
	te pun	np strokes a	it 40. Maxim	num gradient a							
Weather		Sunny		Temp.	12 C	Roads	Hard				
Remarks: Sa	mple, C	ore Desc, Top	s, Tests, Logs, Ele	evations, Casing, (	Cementing, Soli	ds Control	······································			String Seq	
		·							Tool	Size	Length
08:00 hour			hole to recove			B to 471m	KB.				
24:00 hour			2 visc in suction		sses.				Mill	96mm	<del></del>
02:30 hour			cover core to		<del> </del>				STUB	90mm	1
07:00 hour			way on core r						C/BBL	90mm	
08:00 hour	rs	Recover c	ore from 474m	KB to 477mK	B, ensure cle	ean hole.			X/O	90mm	
						,			X/O	90mm	
*** From 447.20mKB to 477.63mKB, prodomitly grey micritic limes interbedded with dark grey dolostone. Occasional shale parting								H/T Rod	90mm		
Military									K/D	90mm	0.87
			om 10 degree	s to 3 degrees	from horizo	ntal N.V.P.					
		No shows									
									Total Depth		477mKB
									String Wt.		DAN
Daily Cos	t:	\$5,570.0	O Cum.	\$445,618.00	)	Reported	d By:		Ron Rangei	•	



WELL NA	VIE:		Delpet Vinla	nd Big Spring	j # 1					
Date			97-07-14			Da	y No.	50		
Depth (080	Depth (0800 hrs) Activity at Report Time		513 mKB			24 Hr. Pro	gress	36m		
Activity at	Repo	rt Time	Fishing core	barrel		<del></del>				
Rig & Rig	No.		East Coast #	2	Grd. Elev.	40.30m		K.B. Elev.	44.5mKB	
		Orilling Flui			Bit Data	<b>-</b>	Time Analys			Hours
	roperti		Additives	Number	#12			Drilling	**********************	3.00
WT	1000		10 L	Size	96 mm			Trips		
VIS	32		Polysafe	Туре	Series 8			Deviation Su	rvey	
WL			Water	Serial No.	JKS73354			Rig Service	·	0.50
CAKE			back and	Jets	Open			Circ. & Cond	. Mud	2.00
pH		TO THE RESERVE THE TOTAL OF THE	clean shale	Out At	ln			Repair Rig		
GELS			tank.	Hours	9			Run Casing 8		
SOLIDS	<u> </u>			M/HR	4			BOP Handlin	g & Tstg.	
PV	<u> </u>			Cum. M	148			Logging		
YP				Cum. Hrs.	51.75			Coring	***************************************	9.00
% OIL		***************************************		Cond. T/B/G	-60%			Formation Ts	stg.	
% SAND				WT. on Bit	1200			Fishing		4.50
CL	<u></u>			RPM	500		<u></u>	Recover Cor		5.00
		Deviations	3	Stroke	76		14	Other Act. (\	NOC)	
Depth	Deg. Depth Degree Liner 51									
				l/m	60		Other			
				Ann Vel						
	<u></u>			Surf. Press.	2500			Total Hours		24.00
DST No.			Formation		-		_ To	•	Times: IF	
ISI			_ FF	_ FSI		Press.:	IHP		- FHP	
PF			IFP	FFP		ISIP		FSIP	W-0	_
BHT			Choke	Results						
				MACHP at 346			water at 513	mKB.		
Reduce ra	te pun	np strokes a	t 40. Maxin	num gradient a						
Weather		Sunny		Temp.	12 C	Roads	Hard	···		
Remarks: Sai	mple, C	ore Desc, Tops	s, Tests, Logs, Ele	evations, Casing, 0	Cementing, So	lids Control		<del></del>	String Seq	<del></del>
								Tool	Size	Length
08:00 hour				mm core from	477mKB to	495mKB,				
17:30 hour		Recover 1						Mill	96mm	
19:30 hour				mKB, reading		е.		STUB	90mm	4
24:00 hour	`S			B, recover 9m o				C/BBL	90mm	
				er 6m core, una			3 to 513mKB,	X/O	90mm	
******************************		***************************************		would not relea		unknown		X/O	90mm	
08:00 hour	'S	Cut and th	read out of ho	le to 490 mKB				H/T Rod	90mm	507
								K/D	90mm	1.87
	***	Up to 511.			***************************************					
				dded with blacl		<del> </del>				
				g. Bedding 10	degrees to	30 degrees	i			
		from Horiz	ontal.	-						
		NVP, No s	hows.					Total Depth		513mKB
								String Wt.	5300	DAN
Daily Cos	t:	\$7,410.00	Cum.	: \$453,028.00	)	Reported	By:	Ron Rangei		



WELL NA	ME:		Delpet Vinla	nd Big Spring	ı # 1					
Date			97-07-15			Day	y No.	51		
Depth (08	epth (0800 hrs) ctivity at Report Time		531mKB			24 Hr. Pro	gress	18m		
Activity at	ctivity at Report Time			n hole, cuting 6						
Rig & Rig	No.		East Coast #	2	Grd. Elev.	40.30m		K.B. Elev.	44.5mKB	
	-	S.::111:	1 _1	T	Dit Data		Ti 6 l			Harris
				Niverio	Bit Data	RR#11	Time Analys	Drilling		Hours
WT	1000	es	Additives 5 L	Number Size	#12	96mm		Trips		3.00
VIS	32		Polysafe		96 mm Series 8	Series 7		Deviation Sur	7 (0) (	7.00
WL	32		Polysale	Type Serial No.		<u> </u>		Rig Service	vey	0.50
CAKE	<b>_</b>				JKS73354-8	JKS73353-7		Circ. & Cond.	Mud	0.50
	<del> </del>			Jets	Open	Open		Repair Rig	Muu	
pH				Out At	513	ln 4.5			Conto	
GELS	<u> </u>			Hours	9	4.5		Run Casing &		
SOLIDS				M/HR	4	4		BOP Handlin	g & istg.	
PV	ļ			Cum. M	148	18		Logging		4.50
YP			<b>_</b>	Cum. Hrs.	51.75	4.5		Coring		4.50
% OIL			<u> </u>	Cond. T/B/G	-60%	-5%		Formation Ts	tg.	
% SAND				WT. on Bit	1200	1500		2 Fishing		
CL				RPM	500	550	1	Recover Core		3.00
		Deviation		Stroke	76	76	14	Other Act. (V	VOC)	8.00
Depth	Deg.	Depth	Degree	Liner	51	51			***************************************	-
***************************************	<u>. ļ</u>			l/m	60	60	Other			
				Ann Vel						
	_l		<u> </u>	Surf. Press.	2500	2500		Total Hours		24.00
DST No.			_ Formation	A	_		То		Times: IF	
ISI			FF	FSI		Press.:	IHP		. FHP	
PF			IFP	FFP_		ISIP		FSIP		
BHT			Choke	Results				·		
***************************************	···			MACHP at 329			water at 513	mKB.		
M	ite pun	np strokes a	at 40. Maxir	num gradient a						
Weather		Squall		Temp.	0 C	Roads	Hard			·
Remarks: Sa	mple, C	ore Desc, Top	s, Tests, Logs, El	evations, Casing, (	Cementing, Sol	ids Control			String Sequ	
								Tool	Size	Length
08:00 hou			it and thread t							
12:00 hou	rs			roll steel pin, v				Mill	96mm	0.11
				the latch asser		atch sub.		STUB	90mm	0.14
19:30 hou				the Iron Maide		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		C/BBL	90mm	3.44
22:30 hou				mbly on 90mm			·····	X/O	90mm	
24:00 hou	rs			mm core from				X/O	90mm	0.26
08:00 hou	rs	From 516	mKb to 531mł	KB, recovered	18m core, e	nsure		H/T Rod	90mm	525
correct depth. (cored 18m in 4.5					3).			K/D	90mm	1.87
	***		o 528.61mKB: predominately black shale and bedded gray limestone. Minor calcite veining.							
							.1		<u> </u>	<del>                                     </del>
				degrees to 40	aegrees fro	n Horizonta	ll.	T-4-1 D	<u></u>	E40 1/D
		NVP, no s	snows.					Total Depth	F000	513mKB
								String Wt.	5300	DAN
Daily Cos	: † •	\$7,010,0	n∩ <b>C</b> um	: \$460,038,00	1	Reported	HV:	Ron Ranger	•	



WELL NA	VIE:		Delpet Vinla	and Big Spring	g # 1						
Date			97-07-16			Da	y No.		52	·········	
Depth (080	ate epth (0800 hrs) ctivity at Report Time ig & Rig No.		547mKB			24 Hr. Pro	gress		43m		
Activity at	ctivity at Report Time g & Rig No.  Drilling  Properties		Milling 96mn	n hole, cuting 6	3mm core.	_					
Rig & Rig	No.		East Coast #	<b>‡</b> 2	Grd. Elev.	40.30m			K.B. Elev.	44.5mKB	
					·					wa	
		Prilling Flu			Bit Data	··	Time An				Hours
			Additives	Number	RR#11				Drilling		2.00
WT	1000		2 Litres	Size	96 mm	ļ			Trips		
VIS	33		Polysafe	Туре	Series 7				Deviation Sur	rvey	
WL			water back	Serial No.	JKS73353-7				Rig Service		0.50
CAKE			and clean	Jets	Open		ļ		Circ. & Cond.	. Mud	
pН			degrasser	Out At	In				Repair Rig		
GELS			tank.	Hours	11.5				Run Casing 8		
SOLIDS				M/HR	3.8				BOP Handlin	g & Tstg.	·
PV				Cum. M	61				Logging	***************************************	
YP				Cum. Hrs.	16				Coring		11.50
% OIL	<u> </u>			Cond. T/B/G					Formation Ts	itg.	
% SAND				WT. on Bit	1500				Fishing		
CL	<u> </u>			RPM	500				Recover Core	es	8.50
	Deviation Depth Deg. Depth		S	Stroke	76			14	Rig UP		1.50
Depth	Deg.	Depth	Degree	Liner	51						
				l/m	110		Other		woc		
				Ann Vel							
				Surf. Press.	3000				Total Hours		24.00
DST No.			Formation		-		_ To			Times: IF	
ISI			FF	FSI		Press.	: IHP			FHP	
PF			IFP	FFP		_ ISIP			FSIP		
BHT			Choke	Results							
				ACHP at 2869			water at 5	74 m	KB.		
Reduce ra	te pun	np strokes a	at 50. Maxir	mum gradient a			***************************************				
Weather		Sunny		Temp.	15 C	Roads	Hard				
Remarks: Sa	mple, Co	ore Desc, Top	s, Tests, Logs, El	evations, Casing, (	Cementing, So	lids Control				String Seq	
									Tool	Size	Length
08:00 hou		~~~~		3mm core from	n 531mKB to	559mKB.					
24:00 hou	rs	Recover 2							Mill	96mm	
08:00 hou	rs	Mill and cu	ut core from 5	59mkB to 574n	nKB, recove	er 15m core	*		STUB	90mm	1
			·						C/BBL	90mm	3.44
	****			th 1000kg/m3 v		0kpa.			X/O	90mm	0.18
		This is wh	ere the interm	ediate shoe is	located.				X/O	90mm	0.26
									H/T Rod	90mm	567
		Up to 572	.09mKB						K/D	90mm	2.87
		Limestone	e: 70%								
		Shale:	30%			***************************************					
			stone interedo	led with black	shale		,,,,,,				
		White Cal	cite veining th	roughout the s	ection.						
		Bedding 2	20 degrees to	30 degrees fro	m horizonta				Total Depth		574mKB
		NVP, no s	shows.	***************************************		·			String Wt.	7000	DAN
Daily Cos	t:	\$7,010.0		.: \$467,048.00	)	Reported	By:		Ron Ranger	τ	



WELL NAM	ИE:		Delpet Vinla	nd Big Spring	<b>;</b> # 1					
Date			97-07-17			Da	y No.	53		•
Depth (080	00 hrs	)	609mKb			24 Hr. Pro	gress	35m	***************************************	
Activity at	Repo	rt Time		nhole, cuting 6	3mm core.	-				
Rig & Rig	No.	· · · · · · · · · · · · · · · · · · ·	East Coast #	2	Grd. Elev.	40.30m		K.B. Elev.	44.5mKB	
				4			-			
		Orilling Flui			Bit Data	· · · · · · · · · · · · · · · · · · ·	Time Analy			Hours
	roperti		Additives	Number	RR#11			1 Drilling		2.00
WT	1010		1 Litres	Size	96 mm			2 Trips		
VIS	32		Polysafe	Туре	Series 7	<b></b>		3 Deviation Su	rvey	2.00
WL			water back	Serial No.	JKS73353-7			4 Rig Service		0.50
CAKE	<u> </u>		and clean	Jets	Open			5 Circ. & Cond	. Mud	
pH		****	degrasser	Out At	ln			6 Repair Rig		
GELS			tank.	Hours	12.5			7 Run Casing		
SOLIDS				M/HR	3.3			8 BOP Handlin	ig & Tstg.	
PV		······································		Cum. M	96			9 Logging		ļ
YP				Cum. Hrs.	28.5			0 Coring		12.50
% OIL				Cond. T/B/G				1 Formation Ts	stg.	
% SAND	ļ			WT. on Bit	1500/1000	ļ		2 Fishing		
CL	<u> </u>	www		RPM	500			3 Recover Cor	es	7.00
	γ	Deviations		Stroke	76			4 Rig Up		
Depth	Deg.	Depth	Degree	Liner	51				·	
				l/m	110		Other	woc		
***************************************				Ann Vel						
				Surf. Press.	3000		<u> </u>	Total Hours		24.00
DST No.		·	Formation		_		_ To		_Times: IF	W1177
ISI			FF	FSI	m	Press.:	IHP	energy reconstruction and the contract of the	_ FHP	
PF			IFP	FFP		_ ISIP		FSIP		_
BHT			Choke	Results	A					
				ACHP at 8500						
	te pun	np strokes a	ıt 50. Maxir	num gradient a						
Weather		Sunny		Temp.	15 C	Roads	Hard			
Remarks: Sar	mple, C	ore Desc, Tops	s, Tests, Logs, Ele	evations, Casing, (	Cementing, Sol	ids Control			String Seq	
						E0.4 1/5	······································	Tool	Size	Length
08:00 hour				3mm core from	1 5/4mKB to	591mKB.	<del></del>			
17:30 hour			591 mKB, 1.5					Mill	96mm	
19:30 hour				91mkB to 598n	nKB, recove	r 24m core.		STUB	90mm	
24:00 hour			ut core to 609	mKB				C/BBL	90mm	
08:00 hour	'S	Recover 1	1m core.				·····	X/O	90mm	
								X/O	90mm	
	***	op 10 000.						H/T Rod	90mm	
		Limestone						K/D	90mm	1.87
		Shale:	70%		······		······································			<b></b>
				rd, Interbedde		Micritic Lime	estone.			
		Bedding:	20 to 40 deg	rees from Hor	izontal.					
						·			1	<b>_</b>
				mrs.coom.com.com.com.com.com.com.com.com.co				Total Depth	609	
								String Wt.	7200	) daN
Daily Cos	t:	\$7,110.00	0 <b>Cum</b> .	.: \$474,158.00	)	Reported	∖By:	Ron Range	<b>r</b>	



WELL NAM	ΛE:		Delpet Vinla	nd Big Spring	g # 1					
Date			97-07-18			Da	y No.	54	**************************************	•
Depth (080	0 hrs		628 mKB			24 Hr. Pro	gress	19m		
Activity at	Repo	rt Time		n hole, cuting 6	3mm core.					
Rig & Rig	No.		East Coast #	2	Grd. Elev.	40.30m		K.B. Elev.	44.5mKB	
				·						
		Drilling Flu			Bit Data		Time Analys	the state of the s		Hours
	roperti	es	Additives	Number	RR#11	#13		Drilling		2.00
WT	1000		1 Litre	Size	96 mm	96mm		Trips		6.00
VIS	32		Polysafe	Туре	Series 7	Series 8		Deviation Su	rvey	2.00
WL			water back	Serial No.	JKS73353-7			Rig Service		0.50
CAKE			and clean	Jets	Open	Open	<u> </u>	Circ. & Cond	. Mud	1.00
рН			degrasser	Out At	624	ln		Repair Rig		
GELS	<u> </u>		tank.	Hours	8	2		Run Casing a		
SOLIDS			<u> </u>	M/HR	3.1	2		BOP Handlin	g & Tstg.	
PV				Cum. M	115	4		Logging		
YP				Cum. Hrs.	38.5	2		Coring		8.00
% OIL				Cond. T/B/G				Formation Ts	stg.	
% SAND				WT. on Bit	<del></del>	1500/1000		2 Fishing		
CL		· · · · · · · · · · · · · · · · · · ·		RPM	500	500		Recover Cor	es	4.50
	Deviation:			Stroke	76	76	14	1 Rig Up		
Depth	epth Deg. Depth D			Liner	51	51				
				l/m	110	110	Other	woc		
				Ann Vel	<u> </u>					
	<u> </u>			Surf. Press.	3000	3000		Total Hours		24.00
DST No.			_Formation		_		_ To		Times: IF	
ISI			_ FF	FSI		_ Press.:	IHP		_ FHP	
PF			IFP	FFP		ISIP		FSIP		_
BHT			Choke	_ Results						
				MACHP at 850	0 kpa GTS.					
	te pun	ip strokes a	at 60.							
Weather		Overcast		Temp.	10 C	Roads	Hard			
Remarks: Sar	mple, C	ore Desc, Top	s, Tests, Logs, El	evations, Casing,	Cementing, Sol	ids Control			String Seq	
								Tool	Size	Length
08:00 hour				3mm core fron	n 609mKB to	615mKB.				
14:00 hour	'S		615mKB, 0.75					Mill	96mm	
				15mKB to 624r	nKB, recove	er 15m core	•	STUB	90mm	
24:00 hour			cover bit # 12,					C/BBL	90mm	
06:00 hour		Cut core f	rom 624mKB 1	to 628mKB, red	cover 4m co	re.		X/O	90mm	0.18
08:00 hour								X/O	90mm	0.26
*** Up to 628.84mKB								H/T Rod	90mm	623
		Limestone	e: 30%					K/D	90mm	0.87
		Shale	70%							
		Black sha	le with RIP up	clasts and Bre	eciciated frag	gments.				
	·····	of Grey M	icritic Limesto	ne.						
		Bedding:	10 to 30 deg	rees from Hor	izontal.					
		NVP, no s	shows.					Total Depth	628	mKB
								String Wt.	7200	daN
Daily Cos	ly Cost: \$7,260.00 Cum.: \$481,418.00 Reported By:								r .	



WELL NA	ME:		Delpet Vinla	nd Big Spring	g # 1					
Date	***************************************		97-07-19			Day	y No.	55		
Depth (08	00 hrs	)	666mKB			24 Hr. Pro	gress	38m		
Activity at	Repo	rt Time	Milling 96mm	hole, cuting 6	3mm core.	-				*****
Rig & Rig	No.		East Coast #	2	Grd. Elev.	40.30m		K.B. Elev.	44.5mKB	
								-		
		Orilling Flu			Bit Data		Time Anal			Hours
	roperti		Additives	Number	RR#11	#13		1 Drilling		3.00
WT	1000			Size	96 mm	96mm		2 Trips		
VIS	33			Туре	Series 7	Series 8		3 Deviation Su	rvey	
WL				Serial No.	JKS73353-7	20093-2		4 Rig Service		0.50
CAKE		·		Jets	Open	Open		5 Circ. & Cond	. Mud	
рН				Out At	624	<u>In</u>		6 Repair Rig		
GELS				Hours	8	12.5		7 Run Casing		
SOLIDS	1			M/HR	3.1	3		8 BOP Handlir	ng & Tstg.	
PV				Cum. M	115	42		9 Logging		
YP				Cum. Hrs.	38.5	14.5		10 Coring		12.50
% OIL				Cond. T/B/G				11 Formation T	stg.	·
% SAND				WT. on Bit	1500/1000	1500/1000		12 Fishing		
CL				RPM	500	500		13 Recover Cor	es	8.00
-		Deviation	S	Stroke	76	76		14 Rig Up	<del>, , , , , , , , , , , , , , , , , , , </del>	
Depth	Deg.	Depth	Degree	Liner	51	51				
				I/m	110	110	Other	woc		
				Ann Vel						
				Surf. Press.	3000	3000		Total Hours		24.00
DST No.			Formation	****	_		_ To	**************************************	_Times: IF	
ISI			_ FF	FSI	NORMAL AND AND AND AND AND AND AND AND AND AND	Press.:	IHP		_ FHP	
PF			IFP	FFP		ISIP		FSIP		_
BHT			Choke	_ Results				MINISTER STATE OF THE STATE OF		·····
			at 600 kpa M	ACHP at 8500	kpa GTS.					
	te pun	np strokes a		P at 5000 kpa,						
Weather		Heavy Ra		Temp.	18 C	Roads	Hard			
Remarks: Sa	mple, C	ore Desc, Top	s, Tests, Logs, El	evations, Casing,	Cementing, Sol	ids Control	~		String Seq	·
								Tool	Size	Length
08:00 hou			n hole, to cut 6	3mm core fron	n 628 mKB t	o 654 mKB.				
24:00 hou		Recover 2						Mill	96mm	
08:00 hou	rs	Cut core t	o 666 mKB, re	cover 12m co	re.			STUB	90mm	
								C/BBL	90mm	
			ay Probable to	o estimated at	621 mKB.			X/O	90mm	
		Up to 664	.84mKB:					X/O	90mm	<del>-</del>
Siltstone 10%								H/T Rod	90mm	
		Limestone	*****			·		K/D	90mm	1.87
		Shale	60%							-
Black shale interbedde				مصطعالية ماقارينا	vov line = of = :-	o and are:	oiltotono			-
							siitstone.		_	
***************************************			20 degrees to	ou degrees tr	om nonzont	aı		Total Depth		mKB
		NVP, no s	SHOWS.					String Wt.	7900	<del></del>
Daily Cos	.4.	\$7 110 0	0 0	· \$488 528 00	<u> </u>	Reported	Rv.	Ron Range	~~~~	ualv
LIBROY CAS	2 m² *	*/ T10 F	nı talm	・ みみひひ カノガ U		T-1-21 16 31 11-2()	LIV.	non rande		



<b>WELL NA</b>	ME:		Delpet Vinla	ind Big Spring	g # 1					
Date			97-07-20			Day	y No.	56		
Depth (08	epth (080 <mark>0 hrs)</mark> ctivity at Report Time		706 mKB			24 Hr. Pro	gress	39m		
Activity at	Repo	rt Time	Milling 96mm	n hole, cuting 6	3mm core.	•				
Rig & Rig	No.		East Coast #	<sup>‡</sup> 2	Grd. Elev.	40.30m		K.B. Elev.	44.5mKB	
					·					
		Orilling Flu			Bit Data	_	Time Analy			Hours
	roperti	es	Additives	Number	RR#11	#13		1 Drilling		2.50
WT	1000		4 Litres	Size	96 mm	96mm		2 Trips		
VIS	33		Polysafe	Туре	Series 7	Series 8		3 Deviation Su	rvey	(construction)
WL				Serial No.	JKS73353-7	20093-2		4 Rig Service		0.50
CAKE				Jets	Open	Open		5 Circ. & Cond	. Mud	
рН	<b>.</b>			Out At	624	In		6 Repair Rig		
GELS	ļ			Hours	8	13.5		7 Run Casing		
SOLIDS		0344		M/HR	3.1	2.8	<u> </u>	8 BOP Handlin	g & Tstg.	
PV	<u> </u>			Cum. M	115	81		9 Logging		
YP				Cum. Hrs.	38.5	28	1	0 Coring		13.50
% OIL	ļ	_,		Cond. T/B/G		1		1 Formation Te	stg.	
% SAND				WT. on Bit		1500/1000		2 Fishing		
CL			<u> </u>	RPM	500	500	1	3 Recover Cor	es	8.50
- a	ТБ.	Deviation	<b>s</b> Degree	Stroke	76	76	1	4 Rig Up		
Depth	Depth Deg. Depth			Liner	51	51	0.11	14/00		
	ļ			/m	110	110	Other	woc		
				Ann Vel	2200	0000				04.00
DOT M.			Formation	Surf. Press.	3000	3000	L	Total Hours	T: IC	24.00
				FSI	-	D	To		Times: IF	
ISI			_ FF	- FFP		Press.: ISIP	ITI	FSIP	- FHP	
PF			IFP Choke			- 1518		FSIP		-
BHT				Results ACHP at 8500	kna CTC	<del></del>				
		np strokes a		P at 5000 kpa,		o/m water to	252 mKP			
Weather	ne pun	Heavy Ra		Temp.	20 C	Roads	Hard			
	mala C		····	evations, Casing,			Tialu	Drill	String Seq	uanca
Nemarks. Se	imple, C	ore Desc, Top	75, 165t5, L0g5, L1	evalions, casing,	Cerneraing, Co.	ius Control		Tool	Size	Length
08:00 hou	re	Mill 96mm	hole to cut 6	3mm core fron	n 666 mKB t	0 694 mKB		1001	10120	Longin
24:00 hou		Recover 2		311111 0010 11011	1 000 11110 0	0 00+111110.	<u> </u>	Mill	96mm	0.11
08:00 hou				cover 11m cor	 		.,	STUB	90mm	
00.00 1100	13	Out core t	.o 700 mmb, 10	00701 1111 001	<u> </u>			C/BBL	90mm	
***************************************		Up to 703	13 mkh					X/O	90mm	
		Op 10 700	. TO TINO.					X/O	90mm	
		Siltstone		·				H/T Rod	90mm	
		Limestone	3					K/D	90mm	
		Shale	100%					1.00	00111111	1.07
				ale, with minor	arev ribbon	limestone			-	1
				als, bedding fro					<u> </u>	
			zontal, NVP, n		2.11 00 10 00		##\. I		<del>                                     </del>	1
					upper corre	lante of the	Green	Total Depth	705	mKB
			ole Northwest Arm formation, an upper correlante of the Green formation of the Humber Arm Allochthon.						8200	
Daily Cos		\$7,160.0				Reported	Bv:	String Wt.  Ron Range		
y		<b>4.,,,,,,,,</b>					,			



VVELLINA	IVIE:			ina big Spring	3#1					***************************************	
Date			97-07-21			-	ıy No.		57		
	Depth (0800 hrs) Activity at Report Tir Rig & Rig No.		727 mKB			_24 Hr. Pro	gress		22m		
-	ctivity at Report Tirig & Rig No.			n hole, cuting 6							
Rig & Rig	Properties 1000 37		East Coast #	‡2	Grd. Elev.	40.30m			K.B. Elev.	44.5mKB	
							T			*****	
		Orilling FI		ļ	Bit Data	T	Time An				Hours
			Additives	Number	RR#11	#13			Drilling		2.50
WT			2 Litres	Size	96 mm	96mm			Trips		
VIS	37		Polysafe	Туре	Series 7	Series 8			Deviation Sur	rvey	
WL				Serial No.	JKS73353-7	20093-2	ļ		Rig Service		0.50
CAKE				Jets	Open	Open			Circ. & Cond.	. Mud	
рН				Out At	624	ln			Repair Rig		
GELS				Hours	8	14.5			Run Casing 8		
SOLIDS				M/HR	3.1	1.5			BOP Handlin	g & Tstg.	
PV				Cum. M	115	103		9	Logging		
YP				Cum. Hrs.	36.5	42.5			Coring		14.50
% OIL				Cond. T/B/G	NOR. RET			11	Formation Ts	stg.	
% SAND				WT. on Bit	1500/1000	500/800		12	Fishing		
CL				RPM	500	500		13	Recover Core	es	6.50
***************************************	<del></del>	Deviation	ns	Stroke	76	76		14	Rig Up		
Depth	Deg.	Depth	Degree	Liner	51	51					
		1		l/m	110	110	Other		woc		
· · · · · · · · · · · · · · · · · · ·				Ann Vel						· · · · · · · · · · · · · · · · · · ·	
				Surf. Press.	3000	3000	1		Total Hours		24.00
DST No.		_l	Formation			<u>, I</u>	То		L <sub>1</sub>	Times: IF	
ISI	FF			FSI	<b>-</b>	Press.	: IHP			- FHP	
PF			IFP	– FFP	•	ISIP			FSIP	-	
BHT			Choke	Results	**************************************			····	-		•
	ate pun	np pressur	e at 600 kpa M		kpa GTS.						
Reduce ra						<u> </u>					
Weather		Overcast		Temp.	10 C	Roads	Hard				
	ample. C		ps, Tests, Logs, El						Drill	String Sequ	uence
	,		[,, 9-,	<u> </u>					Tool	Size	Length
08:00 hou	ırs	Mill 96mi	m hole, to cut 6	3mm core fron	n 705 mKB t	o 722 mKB					
24:00 hou			17m core, flow						Mill	96mm	0.11
06:00 hou			t 724 mKB, dev				····		STUB	90mm	
08:00 hou			coreing from 7			er 5m core	<del></del>	•	C/BBL	90mm	
									X/O	90mm	
		Increased penetration rate to 3m/hr, as the bedding plains have become more horizontal.							X/O	90mm	
		50001110	THOIO HOHZOITE	***************************************		,-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			H/T Rod	90mm	
		Un to 72	7.73 mKB	<u></u>					K/D	90mm	<del></del>
	·····		st Arm Formation	nr.			<u> </u>		1,75	7011111	2.07
-			ale, with interb	******	on limeeton					ļ	
							·			<u> </u>	<del> </del>
			plains from 30	to 40 degrees	HOHH HOHZOI	ııaı				<del>                                     </del>	<del> </del>
·····		NVP, no	SHOWS.						Total Donth	707	- mal/D
								Total Depth	727	<del></del>	
<del></del>		A= 22-		- AE00.046.00	<u> </u>	D	I D		String Wt.	8900	DAN
Daily Cos	ost: \$7,260.00 Cum.: \$502,948.00 Reported By:								Ron Ranger	-	



VVELLIVA	IVIL.			and big spring	J# 1	<del></del>			***************************************	
Date			97-07-22				y No.	58		· · · · · · · · · · · · · · · · · · ·
	Depth (0800 hrs) Activity at Report Time Rig & Rig No.		758 mKB			_24 Hr. Pro	gress	31m		
	ctivity at Report Time g & Rig No.  Drilling		~~~~	n hole, cut 63m	ım core.					
Rig & Rig	No.		East Coast	#2	Grd. Elev.	40.30m		K.B. Elev.	44.5mKB	
	i	Drilling Fl	uid		Bit Data		Time Analy	sis		Hours
	ropert	ies	Additives	Number	RR#11	#13		1 Drilling		2.50
WT	1000		2 Litres	Size	96 mm	96mm		2 Trips		
VIS	39		Polysafe	Туре	Series 7	Series 8		3 Deviation Su	rvey	
WL				Serial No.	JKS73353-7	20093-2		4 Rig Service		0.50
CAKE				Jets	Open	Open		5 Circ. & Cond	. Mud	<del></del>
pН	1			Out At	624	ln		Repair Rig		
GELS				Hours	8	13.5		7 Run Casing	& Cmta.	
SOLIDS				M/HR	3.1	2.4		BOP Handlin		
PV		,		Cum. M	115	134		9 Logging	5	
YP				Cum. Hrs.	36.5	58		0 Coring	·	13.50
% OIL	1			Cond. T/B/G				1 Formation Te	eta	10.00
% SAND				WT. on Bit		1500/1800		2 Fishing	ng.	*
CL	<del>- </del>			RPM	500	500		3 Recover Cor		7.50
<u> </u>		Deviation	ne	Stroke	76	76		4 Rig Up		7.50
Depth	Dog	Depth	Degree	Liner	51	51	<u> </u>	TING OP		
Dehm	Deg.	Debin	Degree	I/m	110	110	Other	woc		
www.				Ann Vel	110	1 10	Other	1000		
					2000	1 2000	-	Tatal Haves		04.00
DOTAL				Surf. Press.	3000	3000	<u> </u>	Total Hours	Ti	24.00
DST No.			Formation	FOL	_		To	D	Times: IF	
ISI			FF	_ FSI		Press.:	IHP	FOID	FHP	
PF		7011	IFP	FFP	Para Caracana	ISIP		FSIP		•
BHT			Choke	Results						
				1ACHP at 6371	kpa GTS.					
Reduce ra	ite pun		at 50.							
Weather		Sunny		Temp.	10 C	Roads	Hard			
Remarks: Sa	imple, C	ore Desc, To	ps, Tests, Logs, E	levations, Casing,	Cementing, Sol	ids Control			String Sequ	T
				www.				Tool	Size	Length
08:00 Hou				3mm core from						<u> </u>
24:00 Hou				P drill, flow che		es or gains.		Mill	96mm	0.11
08:00 Hou	ırs	Cut core	to 758mKB, re	cover 10m cor	e.			STUB	90mm	0.14
								C/BBL	90mm	3.44
		To 754.8	8 mKB					X/O	90mm	0.18
		North We	est Arm Forma	tion (possible)				X/O	90mm	0.26
• • • • • • • • • • • • • • • • • • • •		Black sh	ale interbedde	d with grey mot	tled limestor	ne,	***************************************	H/T Rod	90mm	753
		Bedding	from 40 degre	es to horizonta	ĺ.			K/D	90mm	0.87
				en fired over a		ne hand tor	ch).			
		Continue	coring, 727m	to 758mKB.						
***************************************			recover 31m,							<b></b>
								Total Depth	758	mKE
<del></del>							The state of the s	String Wt.	11500	
Daily Cos	.+.	\$7.880	00 Cur	\$510.828.00	٦	Reported	l Rv:	Ron Ranger		



WELL NA	ME:			and Big Spring	g # 1					
Date	Date Depth (0800 hrs) Activity at Report Time		97-07-23			-	y No.	59		
	epth (0800 hrs)		788 mkB			24 Hr. Pro	gress	30m		
-	-	rt Time		n hole, cut 63m						
Rig & Rig	Drilling Properties T   1000		East Coast #	<del>‡</del> 2	Grd. Elev.	40.30m		K.B. Elev.	44.5mKB	
		- 1111 PH			DI/ D /		I=-:			r
			· · · · · · · · · · · · · · · · · · ·	A1	Bit Data	1 240	Time Analys			Hours
			Additives	Number	RR#11	#13	<u> </u>	Connections		2.00
WT			2 Litres	Size	96 mm	96mm	<u> </u>	Trips		
VIS	39		Polysafe	Type	Series 7	Series 8		Deviation Su	rvey	0.50
WL				Serial No.	JKS73353-7	20093-2		Rig Service	N.AI	0.50
CAKE		**************************************		Jets	Open	Open	1	Circ. & Cond	. Mua	·
pH				Out At	624	ln 40		Repair Rig	0.01-	
GELS				Hours	8	13		Run Casing 8		1.00
SOLIDS				M/HR	3.1	2.4		BOP Handlin	g & Tstg.	1.00
PV				Cum. M	115	164		Logging		
YP				Cum. Hrs.	36.5	69		Coring		13.00
% OIL	<u> </u>			Cond. T/B/G				Formation Ts	stg.	
% SAND				WT. on Bit		1500/1800		Fishing		
CL				RPM	500	500		Recover Cor	es	7.50
		Deviation		Stroke	76	76	14	Rig Up		
Depth	Deg.	Depth	Degree	Liner	51	51				
				I/m	110	110	Other	woc		
				Ann Vel						
*****				Surf. Press.	3000	3000		Total Hours		24.00
DST No.			Formation				То		Times: IF	
ISI			FF	FSI		Press.:	THP		FHP	
PF			IFP	FFP		ISIP		FSIP	-	
BHT	-		Choke	 Results				-		-
Reduce ra	ate pun	np pressur	e at 600 kpa M	ÄCHP at 6371	kpa GTS.					
Reduce ra	ate pun	np strokes	at 55.							
Weather		Sunny	//	Temp.	10 C	Roads	Hard		***************************************	***************************************
Remarks: S	ample, C	ore Desc, To	ps, Tests, Logs, E	levations, Casing,	Cementing, So	ids Control		Drill	String Seq	uence
								Tool	Size	Length
08:00 Ho	urs	Mill 96mr	m hole to cut 6:	3mm core. Fro	m 758mKB 1	o 778mKB.				
24:00 Ho	urs	Recover	20m core.	MANAGEMENT (1987)	:			Mill	96mm	0.11
08:00 Ho	urs	Mill to 78	8 mkB, recove	r 10m core.				STUB	90mm	0.14
***************************************					***************************************			C/BBL	90mm	3.44
		Flow che	cks prior to pu	lling every core	e section.			X/O	90mm	0.18
****			in drills condu			/S.		X/O	90mm	
							***************************************	H/T Rod	90mm	
	***	Up to 784	4.42mKB					K/D	90mm	
			ve formation (	oossible)				<del> </del>		1,
			on and parted		laminated a	and		<del> </del>		<del> </del>
			ded black sub-f		ammuoo c					<del> </del>
		NVP, no		.cono oridio.						1
		1441,110	GIOWG.				<u>, , , , , , , , , , , , , , , , , , , </u>	Total Depth	788	B mKB
								String Wt.	9900	
Daily Co	ct·	\$7,160.	00 <b>Cum</b>	.: \$517,988.00	<u>,                                     </u>	Reported	l Rv	Ron Rangei		, 5/11
Dally Co	ວເ.	$\Phi I$ , $IOU$ .	oo cum	\$00.UC	,	vehousen	. <b>-</b> y.	Non Nange		



WELL NAI	ME:		Delpet Vinla	ınd Big Spring	<b>j</b> # 1						
Date			97-07-24			Da	y No.		60		•
Depth (086	00 hrs		796mKB			<sup>-</sup> 24 Hr. Pro	gress		8m		
Activity at		rt Time		n hole, cut 63m	ım core.	_					
Rig & Rig	No.		East Coast #	‡2	Grd. Elev.	40.30m			K.B. Elev.	44.5mKB	
	r	Orilling Flu	id		Bit Data		Time Ana	lve			Hours
P	roperti		Additives	Number	#14	#13	Time Ana		Connections		1.00
WT	1000		2 Litres	Size	96mm	96mm			Trips		5.50
VIS	42		Polysafe	Туре	Series 2	Series 8	***************************************		Deviation Sur	TVAV	3,30
WL	1		40 Litres	Serial No.	20305-2	20093-2	<del>                                     </del>		Rig Service	vey	0.50
CAKE	<del> </del>		Lubrigel	Jets	Open	Open			Circ. & Cond.	Mud	0.50
pH		**************************************	Labrigor	Out At	In	796			Repair Rig	. Waa	5.00
GELS	<del>                                     </del>			Hours	11.	4			Run Casing 8	2. Cmta	0.00
SOLIDS	<del> </del>			M/HR		2	<del> </del>		BOP Handlin		1.00
PV	<del> </del>			Cum. M		172			Logging	y or rolly.	1.00
YP	ļ			Cum. Hrs.		173			Coring		8.00
% OIL				Cond. T/B/G		Nor. Ret.			Formation Ts	·ta	0.00
% SAND	<del> </del>			WT. on Bit	2000	INOL. INCL.			Fishing	ny,	
CL	<del> </del>			RPM	500	500	***************************************		Recover Core	00	3.00
<u> </u>		Deviation		Stroke	76	76			Rig Up		3.00
Depth	Deg.	Deviation	Degree	Liner	51	51			rtig Op		
рерит	Deg.	Берш	Degree	I/m	110	110	Other		woc		*****
	-			Ann Vel	110	110	Olifei		WOC		
	<del> </del>			Surf. Press.	3000	3000	ļ		Total Hours		24.00
DST No.	<u> </u>	<u> </u>	Formation	Oui1.   1633.	1 3000	1 0000	To		10tai 110uis	Times: IF	24.00
ISI			FF	FSI	-	Press.:			Hatala to construct the same transfer	FHP	
PF			IFP	- FFP	***************************************	- ISIP	11 11		FSIP	- ' ' ' ' '	
BHT			Choke	- Results		_ 1011	***************************************		. 1011		-
	to num	n proceure		ACHP at 6371	kna GTS		<del></del>				
	<del></del>	np strokes		ACIII at 0371	кра Ото.						
Weather	te pun	Sunny	at 55.	Temp.	19 C	Roads	Hard				
	mala C		o Toote Loge El	evations, Casing,			TIGIU		Drill	String Seq	llonco
Remarks. Sa	mpie, C	ore Desc, Top	15, 16515, LOGS, LI	evalions, casing,	Cementing, 30	ilds Control			Tool	Size	Length
		Mill 96mm	hole to cut 6	3mm core fron	788 mKR t	o 796 mKB			1001	OIZC	Longar
	<del></del>	Recover 8		Offili Coro Hori	1700 11110	.0 700 11110	•		Mill	96mm	0.11
		_	intermediate	raeina	<u></u>			····	STUB	90mm	
				for core recove	2r\/		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		C/BBL	90mm	
				depth against		2r\			X/O	90mm	
			was to normal		. core recove	οι y .			X/O	90mm	
				0 hours this ar	n				H/T Rod	90mm	
		1111110 43	O IIIND at 00.0	O Hours trils at	11,				K/D	90mm	<del></del>
						······································				3011111	2.07
	***	Up to 796	mKB								<del> </del>
<del></del>				erbedded black	shale						
	······································	NVP, no s							<del> </del>	ļ	<del> </del>
	<del></del>		30 degrees fro	m horizontal		······································			Total Depth	796	mKB
		Dodding	55 GOG1000 110	HOHLOHIGH					String Wt.	9900	<del></del>
Daily Cos	<b>†</b> •	\$6,810.0	00 Cum	<b>.:</b> \$524,798.00	)	Reported	Bv:		Ron Ranger		. 0/114
Dully COS	•••	ΨΟ,Ο 10.0	Julii	ΨΟΣΤ,1 ΟΟ.ΟC	•		. <b>-</b> -y•				



WELL NA	VIE:		Delpet Vinla	nd Big Spring	g # 1						
Date			97-07-25			Da	ıy No.		61		•
Depth (080	00 hrs		828 mKB		·	24 Hr. Pro	gress		32m		
Activity at	ctivity at Report Timing & Rig No.		Milling 96mm	n hole, cut 63m	nm core.						
Rig & Rig	No.		East Coast #	2	Grd. Elev.	40.30m			K.B. Elev.	44.5mKB	
									-		
		Orilling Flu			Bit Data		Time Ana	_			Hours
	roperti	es	Additives	Number	#14				Connections		3.00
WT	1000		2 Litres	Size	96mm				Trips		2.00
VIS	42		Polysafe	Туре	Series 2				Deviation Sur	rvey	
WL	ļ			Serial No.	20305-2				Rig Service		0.50
CAKE		M		Jets	Open				Circ. & Cond.	. Mud	
рН				Out At	ln ln				Repair Rig		
GELS				Hours	8				Run Casing &		
SOLIDS				M/HR	4				BOP Handlin	g & Tstg.	0.50
PV				Cum. M	32				Logging		
YP				Cum. Hrs.	8				Coring		8.00
% OIL				Cond. T/B/G					Formation Ts	itg.	
% SAND				WT. on Bit	1500			12	Fishing		
CL				RPM	500			13	Recover Core	es	10.00
		Deviation	S	Stroke	76			14	Rig Up		
Depth	Deg.	Depth	Degree	Liner	51						
				I/m	110		Other		WOC		
				Ann Vel							
				Surf. Press.	3000				Total Hours		24.00
DST No.			Formation		<u> </u>		То			Times: IF	··
ISI			FF	FSI	-	Press.	: IHP			FHP	
PF			IFP	FFP	*	ISIP			FSIP	•	
BHT			Choke	Results		****			•	Prompton	•
Reduce ra	te pur	p pressure	at 600 kpa M	ACHP at 6371	kpa GTS.						
Reduce ra	te pun	p strokes a	at 55.								
Weather		Sunny, W	indy	Temp.	20 C	Roads	Hard				
Remarks: Sai	mple, Co	ore Desc, Top	s, Tests, Logs, El	evations, Casing,	Cementing, So	lids Control			Drill	String Seq	uence
		***************************************							Tool	Size	Length
08:00 Hou	rs	Mill 96mm	hole, cut 63m	m core from 7	96 mKB to	328 mKB.	***************************************				
08:00 Hou	rs	Recover 3	2m core.						Mill	96mm	0.11
									STUB	90mm	0.14
	***	Flow chec	ks prior to cor	e recovery.					C/BBL	90mm	
-			f head installe		) <b>.</b>				X/O	90mm	
					***************************************				X/O	90mm	
		Up to 824	mKB.						H/T Rod	90mm	
			ght grey oolitie	c limestone, si	milar to loca	tion.			K/D	90mm	<del></del>
			om 347.27 ml	The sale of the sa							1
			rom 30 to 40 d							-	1
		No VP, no		-3.000 11011111							1
		, +O VI , IIC	, 0,10470.		<del> </del>		· · · · · · · · · · · · · · · · · · ·		<del> </del>	ļ	<del> </del>
					***************************************	······································			Total Depth	1 828	mKB
****									String Wt.	9900	
Daily Cos	<del> </del>	\$7,160.0	0 <b>Cum</b>	: \$531,958.00	)	Reported	l Bv:		Ron Ranger		. 27.114
	~*	Ψ,,ιου.υ	- Guilli	4001,000.00	-		. <i></i> .				



WELL NA	ME:		Delpet Vinla	nd Big Spring	ı # 1						
Date			97-07-26			Da	y No.		62		
Depth (080	00 hrs	)	852 mKB				-		24m	· · · · · · · · · · · · · · · · · · ·	
Activity at			Milling 96mn	n hole, cut 63m	m core.	-	•				
Rig & Rig	-		East Coast #		Grd. Elev.	40.30m			K.B. Elev.	44.5mKB	
				11 to 11 to 11 to 11 to 11 to 11 to 11 to 11 to 11 to 11 to 11 to 11 to 11 to 11 to 11 to 11 to 11 to 11 to 11							
***************************************		Orilling Flu	id		Bit Data	······································	Time An	alys	is		Hours
Р	roperti	es	Additives	Number	#14			1	Connections		
WT	1000		8 Litres	Size	96mm			2	Trips		3.75
VIS	37		Polysafe	Туре	Series 2				Deviation Sur	rvey	
WL				Serial No.	20305-2				Rig Service		0.50
CAKE	1			Jets	Open				Circ. & Cond.	. Mud	0.75
рН	<b>†</b>			Out At	ln		<del> </del>	6	Repair Rig		
GELS	†			Hours	5				Run Casing &	& Cmtg.	
SOLIDS	<b>†</b>			M/HR	4				BOP Handlin		
PV				Cum. M	56				Logging	5	
YP	1			Cum. Hrs.	13		· · · · · · · · · · · · · · · · · · ·		Coring		14.00
% OIL				Cond. T/B/G	Run				Formation Ts	sta.	
% SAND	1	***************************************		WT. on Bit	1000/2000				Fishing	-3-	
CL	<del></del>			RPM	500				Recover Cor	es	5.00
	<u>.</u>	Deviation	S	Stroke	76		<u> </u>		Rig Up		
Depth	Deg.	Depth	Degree	Liner	51	<del> </del>					
op 11.	1- 33.	p = -	1 - 3,	I/m	110		Other		woc		
	<del> </del>			Ann Vel		<del> </del>				<del></del>	
	<b>—</b>			Surf. Press.	3000				Total Hours	<del> </del>	24.00
DST No.	. L ,	I	Formation	100			To		1	Times: IF	
ISI			FF	FSI	-	Press.:				FHP	
PF			IFP	FFP		ISIP			FSIP	•	···
BHT			Choke	– Results					_		•
	te pum	n pressure		MACHP at 637	1 kna GTS.						
		p strokes		.,		<u> </u>					
Weather	to pair	Rain		Temp.	12 C	Roads	Hard				
	mole C		ne Teste Logs Fl	evations, Casing,			- Tidi d		Drill	String Sequ	ience
Tromano. Oa	mpic, O	310 D030, 10p	73, 10310, 2093, 21	Cranons, Caomy,	<del>Johnson Hing, Jo</del>	ndo Control			Tool	Size	Length
08:00 Hou	re	Mill 96mm	hole cut 63m	nm core from 8	28 mKB to 8	R49 mKB re	ecover 21	m co		O.E.O	Longar
00.00 1100				lve broke, fell			20070121		Mill	96mm	0.11
				broke braided					STUB	90mm	0.14
				check, POOH		recover			C/BBL	90mm	3.44
				un in to contin		7, 1000 701			X/O	90mm	
				over 63mm cor		mKB to 852	mKB		X/O	90mm	0.26
08:00 Hou	ıre			overy cable as			1111121	MINIOTH OTHER	H/T Rod	90mm	846
00.00 1100	113	Oplice on	more core rec	overy cable as	5 01 0000 110	uio.			K/D	90mm	1.87
	***	Up to 850	01 mKB						100	3011111	1.07
				lded with black	chalo						
				degrees from h							
				achieco iiniii ii	onzontal.				-	1	
	·	NVP, no s	SHOWS.			· · · · · · · · · · · · · · · · · · ·			<u> </u>		
									Total Depth	852	mKE
									String Wt.	9900	<u> </u>
Della Car	4.	<b>67</b> 400 0	00	. 6520 440 00	<b>1</b>	Donartad	l Rv:		Ron Ranger		DAI
Daily Cos	ı.	\$7,160.0	00 Cum	.: \$539,118.00	,	Reported	υy.		Non Nangel		



WELL NA	ME:			ina Big Spring	# 1		B. #				
Date			97-07-27			-	ıy No.		00		
Depth (080			880 mKB		usana and a second and a second and a second and a second and a second and a second and a second and a second	24 Hr. Pro	ogress		63		
Activity at	t Repor	t Time		n hole, cut 63mi			-		28m		
Rig & Rig	No.		East Coast #	<del>‡</del> 2	Grd. Elev.	40.30m				4 F . I/D	
							T		B. Elev. 4	4.5mKB	
	D	rilling Flu	uid		Bit Data		Time Analy	ysis		1	
P	roperti	es	Additives	Number	#14			1			Hours
WT	1000		2 Litres	Size	96mm				nnections		
VIS	37		Polysafe	Туре	Series 2			3 Tri			4.50
WL				Serial No.	20305-2				viation Surv	/ey	1.50
CAKE				Jets	Open				g Service		0.50
pН				Out At	In				rc. & Cond.	Mud	
GELS				Hours	8				pair Rig		
SOLIDS				M/HR	3.5				ın Casing &		
PV				Cum. M	84				OP Handling	& Tstg.	
YP				Cum. Hrs.	21				gging		
% OIL				Cond. T/B/G			1	11 C			8.00
% SAND				WT. on Bit	800/1000				ormation Tst	g.	
CL				RPM	500			13 Fi			
		Deviation	ns	Stroke	76			14 R	ecover Core	S	14.00
Depth	Deg.	Depth	Degree	Liner	51			R	ig Up		
Борин	Jug.	862	2.0	I/m	110		Other				
				Ann Vel				W	OC		
	-			Surf. Press.	3000						
DST No.		1	Formation				То	T	otal Hours		24.00
ISI			— FF	FSI	-	Press	: IHP			Times: IF	
PF	***************************************		IFP	— FFP		ISIP				FHP	
BHT			Choke	Results		-	<u> </u>		FSIP		
Paduca r	ate nun	nn nressill		MACHP at 637	1 kpa GTS.						-
		np strokes									
Weather		Partly Su		Temp.	17 C	Roads	Hard				
				Elevations, Casing,							
Remarks. 5	ample, C	ore Desc, To	Jps, 103ts, Logs, 1	ziovatione, caomigi	outhorning, o				Drill S	String Seq	uence
08:00 Ho	LIFC	Mill 96m	m hole cut 63	mm core from 8	52 mKB to	862 mKB.	recover 13m	co T	ool	Size	Length
00.00110	urs			degrees devia							
		Mill 96m	m hole cut 63	mm hole from 8	62 mKB to	880 mkB. r	ecover 18m	corlN	1111	96mm	0.11
				to 75-80 degree					TUB	90mm	
				eing cut back s			al.		/BBL	90mm	
00,00 Ha		reneua	don rates are t	cing cut back c	o not to am	TON VOICE	~~~		./O	90mm	
08:00 Ho	urs								./O	90mm	
	***	Un 40 07	9.47 KKB						I/T Rod	90mm	
				rey limestone v	vith nanor th	ain chala na	artinge		//D	90mm	
					viui papei u	ini siiaic pe	ui iiiigo.		· -	3011111	2.57
			up to 80 degr	ees.						-	
			shows.	aible Merch Dei	nt			_			+
		Formation	on: Pos	sible March Poi	111						-
									otal Depth	880	) mKE
				<b>AB 10 000 0</b>	0 D - 11	I D	Des Des		String Wt.	9900	
Daily Co	st:	\$7,510	).00 <b>Cu</b> i	n.: \$546,628.0	0 Reported	а Бу:	KUII Kali	iger [3	Juniy VVI.	3300	



WELL NAM	ΛE:		Delpet Vinla	nd Big Spring	# 1					
Date	-		97-07-28			-	ıy No.			
Depth (080	0 hrs)		914 mKB			24 Hr. Pro	ogress	64		
Activity at	-		Milling 96mm	hole, cut 63m	m core.			34m		
Rig & Rig	No.		East Coast #	2	Grd. Elev.	40.30m				
_	,							-	44.5mKB	
	C	rilling Flu			Bit Data		Time Analysi	S		
P	roperti	es	Additives	Number	#14		1	0		Hours
WT	1000		2 Litres	Size	96mm			Connections		
VIS	37		Polysafe	Туре	Series 2		1	Trips Deviation Sur		
WL				Serial No.	20305-2			Rig Service	vey	0.50
CAKE				Jets	Open			Circ. & Cond.	Mud	0.50
рН				Out At	ln 10.5			Repair Rig	iviud	
GELS				Hours	10.5			Repair Rig Run Casing 8	Cmta	
SOLIDS				M/HR	3.2			BOP Handling		
PV				Cum. M	118				g ox isty.	
YP		····		Cum. Hrs.	31.5			Logging		10.50
% OIL				Cond. T/B/G	Run			Coring	+o	10.50
% SAND				WT. on Bit	800/1000			Formation Ts	ıg.	
CL				RPM	500			Fishing		13.00
		Deviation		Stroke	76		14	Recover Core	38	13.00
Depth	Deg.	Depth	Degree	Liner	51			Rig Up		
				I/m	110		Other	W/OC		
	<u> </u>			Ann Vel				woc		
				Surf. Press.	3000		<u> </u>	<b>*</b> ( )		04.00
DST No.			Formation		-		To	Total Hours	T:	24.00
ISI			FF	FSI		Press	.: IHP		Times: IF	
PF			IFP	FFP		ISIP		FOID	- FHP	
BHT			Choke	Results				FSIP		-
			e at 1400 kpa	MACHP at 637	1 kpa GTS					
Reduce ra	ite pun						11			
Weather		Partly Su		Temp.	17 C	Roads	Hard			
Remarks: Sa	mple, C	ore Desc, To	ps, Tests, Logs, E	levations, Casing,	Cementing, S	olids Control		Deill	String Seq	uonco
					100 ICD to	014 ml/D		Tool	Size	Length
08:00 Hou			m hole, cut 63r	nm core from a	SOU MIND TO	914 IIIND,		1001	OIZE	Longin
08:00 Hou	ırs	Recover	34m core.		<u> </u>			Mill	96mm	0.11
	de de se		0.401.5					STUB	90mm	
	***		2.42 mkB		C	!!.6! _		C/BBL	90mm	
			y to black mas			DOILLIC		X/O	90mm	
			10 to 20 degre	es from norizo	ntai.			X/O	90mm	
***************************************		NVP, no		· · · · · · · · · · · · · · · · · · ·					90mm	
		Marche (	point formation	(possible).				H/T Rod		
***************************************								K/D	90mm	0.07
								Total Depth	914	1 mKB
									9900	
Daily Co	st:	\$7,135	.00 <b>Cun</b>	<b>1.:</b> \$553,763.0	0 Reported	з ву:	Kon Kange	String Wt.	9900	J DAN



WELL NA	ME:			and Big Spring	j # 1			_		
Date			97-07-29			Da	ay No.			
			946			24 Hr. Pro	ogress	65		
	oth (0800 hrs) ivity at Report Tii & Rig No.			n hole, cut 63m	ım core.			32m		
Rig & Rig	No.		East Coast #	‡2	Grd. Elev.	40.30m				
								K.B. Elev.	44.5mKB	
		Orilling Fl	uid		Bit Data		Time Analys	is		
	roperti	es	Additives	Number	#14		1			Hours
WT	1000		2 Litres	Size	96mm			Connections		
VIS	37		Polysafe	Type	Series 2		3	Trips		
WL				Serial No.	20305-2		4	Deviation Sur	vey	2.00
CAKE				Jets	Open		5	Rig Service		0.50
рН				Out At	ln		6	Circ. & Cond.	Mud	
GELS				Hours	19			Repair Rig		
SOLIDS				M/HR	3.8		8	Run Casing 8	& Cmtg.	
PV				Cum. M	150			BOP Handlin		
YP				Cum. Hrs.	40		10	Logging		
% OIL				Cond. T/B/G			11	Coring		8.50
% SAND				WT. on Bit	1000/1500		12	Formation Ts	tg.	
CL				RPM	500		13	Fishing		
		Deviation	ns	Stroke	76		14	Recover Core	es	13.00
Depth	Deg.	Depth	Degree	Liner	51			Rig Up		
946	3.5			I/m	110		Other			
				Ann Vel				woc		
<u></u>				Surf. Press.	3000				i <del>ya 'e e</del>	
DST No.			Formation				То	Total Hours		24.00
ISI			FF	FSI	<b>-</b>	Press.	_ : IHP		Times: IF	
PF			IFP	FFP		ISIP			FHP	
BHT			Choke	Results				FSIP	•	
Reduce ra	te pun	np pressur	e at 1000 kpa l	MACHP at 637	1 kpa GTS.			<b></b>		•
Reduce ra	te pun	np strokes	at 60.							
Weather		Rain		Temp.	6 C	Roads	Good			
Remarks: Sa	mple, Co	ore Desc, To	pps, Tests, Logs, El	evations, Casing, 0	Cementing, Sol	ids Control				
								Drill	String Sequ	uence
08:00 Hou	rs	Mill 96mr	m hole, cut 63n	nm core from 9	14 mKB to 9	946 mKB,		Tool	Size	Length
		recover 3	32m core.							
08:00 Hou	rs	Survey @	946 mKB to 3	3.5 degrees off	true vertical			Mill	96mm	0.11
								STUB	90mm	0.14
		·····			, ,		· · · · · · · · · · · · · · · · · · ·	C/BBL	90mm	3.44
***************************************	***	Up to 94	5.53 mkB					X/O	90mm	0.18
		Grey to c	dark grey limes	tone, interbedd	ed with blac	k shale		X/O	90mm	
		Massive	oolitic limeston	e from 938.09	to 945.53 m	KB		H/T Rod	90mm	939
-t		Bedding	10-20 degrees	from horizonta	ıl.			K/D	90mm	
		NVP, no								
			point formation							
				· · · · · · · · · · · · · · · · · · ·						
<del></del>										
								Total Depth	946	mKB
Daily Cos	t:	\$7,285.	00 <b>Cum</b>	.: \$561.048.00	Reported	Bv:	Ron Range		9900	<del></del>
, 000		ψ. μ				_ , -				



WELL NAM	ΛE:			nd Big Spring	j # 1		······			
Date			97-07-30				y No.			
Depth (080			6 mKB			24 Hr. Pro	gress	66		
Activity at		rt Time		nhole, cut 63m				30m		
Rig & Rig	No.		East Coast #	2	Grd. Elev.	40.30m				
								K.B. Elev.	44.5mKB	
		Prilling Flu	<u>id</u>		Bit Data		Time Analysi	is		
	roperti	es	Additives	Number	#14		1			Hours
WT	1000		2 Litres	Size	96mm			Connections		
VIS	37		Polysafe	Type	Series 2		3	Trips		
WL				Serial No.	20305-2		4	Deviation Sur	vey	2.00
CAKE				Jets	Open		5	Rig Service		0.50
рН				Out At	ln		6	Circ. & Cond.	Mud	
GELS				Hours	8.5		7	Repair Rig		
SOLIDS				M/HR	3.7		8	Run Casing 8	& Cmtg.	
PV				Cum. M	180		9	BOP Handlin	g & Tstg.	
YP				Cum. Hrs.	48.5		10	Logging		
% OIL				Cond. T/B/G			11	Coring		8.50
% SAND				WT. on Bit	1000/1500		12	Formation Ts	tg.	
CL				RPM	500		13	Fishing		
	<del></del>	Deviation	S	Stroke	76		14	Recover Core	es	13.00
Depth	Deg.	Depth	Degree	Liner	51			Rig Up		
946		946	3.50	l/m	110		Other			
976		976	3.50	Ann Vel				woc		
				Surf. Press.	3000		· · · · · · · · · · · · · · · · · · ·			
DST No.	ł	1	Formation				То	Total Hours		24.00
ISI			FF	FSI	-	Press.:	THP		Times: IF	
PF			IFP	- FFP		ISIP		·····	FHP	
BHT			Choke	Results		<del></del>		FSIP	•	
	te pum	np pressure		MACHP at 637	1 kpa GTS.		i -, -, -, -, -, -, -, -, -, -, -, -, -,	-	· · · · · · · · · · · · · · · · · · ·	•
	<u> </u>	p strokes a								
Weather		Rain, Sun		Temp.	11 C	Roads	Good			
	nole. Co			evations, Casing, (	Cementing, Sol	ids Control		<del>- i</del>		
	, , , , , , , , , , , , , , , , , , , ,			,	<u> </u>	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	Drill:	String Sequ	uence
08:00 Hou	rs	Mill 96mm	hole, cut 63m	m core from 9	47 mKB to 9	76 mKB.	<del></del>	Tool	Size	Length
		Recover 3								
08:00 Hou	rs			.5 degrees off	true vertical		· · · · · · · · · · · · · · · · · · ·	Mill	96mm	0.11
							·	STUB	90mm	
	***	Up to 975	.08 mkB				· · · · · · · · · · · · · · · · · · ·	C/BBL	90mm	1
		100% lime			······································		· · · · · · · · · · · · · · · · · · ·	X/O	90mm	
			assive dark gre	2V				X/O	90mm	0.26
***************************************				from horizonta	i			H/T Rod	90mm	969
			oint formation	HOIII HOHZOITE			<del>, , , , , , , , , , , , , , , , , , , </del>	K/D	90mm	2.87
<u></u>		iviaiciie pe	Jint Ionnation					1170	3011111	2.01
								<u> </u>	<u> </u>	
P						··········		<del> </del>	<u> </u>	
			Production and the second				<u> </u>	Total Danti-		ma IZD
- · · · ·		<b>AT</b>		AEOC 000 00	N	D	Dan Dan a	Total Depth	976 9900	<u> </u>
Daily Cos	τ:	\$7,285.0	0 <b>Cum</b> .	\$568,333.00	Reported	by:	Ron Ranger	String vvt.	9900	DAN



WELL NAM	VIE:	,,		nd Big Spring	j#1					
Date			97-07-31	······································			y No.	67		
Depth (080			994 mKB			24 Hr. Pro	gress	18m		
Activity at	-	rt Time		hole, cut 63m						
Rig & Rig	No.		East Coast #		Grd. Elev.	40.30m			44 7 36	
***************************************				<del></del>			T		44.5mKB	
		Prilling Flu		1	Bit Data	1145	Time Analys	IS		
	roperti	es	Additives	Number	#14	#15	1	0		Hours
WT	1000		2 Litres	Size	96mm	96mm		Connections		44.50
VIS	37		Polysafe	Туре	Series 2	Series 2	<del></del>	Trips		14.50
WL	ļ			Serial No.	20305-2	20305-3		Deviation Su	rvey	0.50
CAKE				Jets	Open	Open		Rig Service		0.50
pH	ļ			Out At	988	ln o	1	Circ. & Cond.	. Mua	
GELS				Hours	3.5	2		Repair Rig		
SOLIDS				M/HR	3.7	3		Run Casing 8		
PV				Cum. M	192	6	1	BOP Handlin	g & Tstg.	
YP				Cum. Hrs.	51.5	2		Logging		
% OIL				Cond. T/B/G	Out Gauge			Coring		5.00
% SAND				WT. on Bit	1000/1500			Formation Ts	stg.	
CL	<u> </u>			RPM	500	500	· L	Fishing		
		Deviation		Stroke	76	76	14	Recover Con	es	4.00
Depth	Deg.	Depth	Degree	Liner	51	51		Rig Up		
		976	3.50	l/m	110	110	Other			
976	3.50			Ann Vel				woc		
				Surf. Press.	3000	3000				
DST No.			Formation		_		_ To	Total Hours		24.00
ISI			FF	FSI		_ Press.:	IHP		Times: IF	
PF			IFP	FFP		ISIP			_ FHP	
BHT			Choke	Results				FSIP		
Reduce ra	te pur	p pressur	e at 1200 kpa l	MACHP at 637	1 kpa GTS.					
Reduce ra	te pur	p strokes	at 60.							
Weather		Sunny		Temp.	17 C	Roads	Good			
Remarks: Sai	mple, Co	ore Desc, To	ps, Tests, Logs, El	evations, Casing,	Cementing, Soli	ids Control				
	,							Drill	String Sequ	uence
08:00 Hou	rs	Mill 96mr	n hole, cut 63n	nm core from 9	76 mKB to 9	89 mKB,		Tool	Size	Length
		recover 1	3m core.							
		Last 3m	core recovered	was out of rou	ınd, not true	lined		Mill	96mm	0.11
		Ensure c	lean hole, flow	checks done,	POOH, reco	ver bit		STUB	90mm	0.14
		Strap dril	l string, reporte	d depths corre	ect.			C/BBL	90mm	3.44
***************************************	***************************************		was out of guag					X/O	90mm	0.18
		RIH #15	mill, series 2, 2	0305-3, boart/	long year			X/O	90mm	0.26
			m hole, cut 63n			94 mKB,		H/T Rod	90mm	987
08:00 Hou	rs	Recover						K/D	90mm	2.87
									1	
	***	Up to 994	4 mKB		· · · · · · · · · · · · · · · · · · ·					
			rey limestone	with dark to bla	ick shale					
			20-30 degrees			int formation	on	<u> </u>		<b> </b>
·····		Journing .		5 5	, pc			Total Depth	994	mKB
Daily Cos	<u>†·</u>	\$9,135.	00 <b>Cum</b>	: \$577 468 00	Reported	Bv:	Ron Range	<u> </u>	11,000	<u> </u>
-any 000		ψο, 100.	J. Julii	40,7,700,00		_ , .	<u> </u>	- L	,	



WELL NAI	VIE:			ina big spring	# 1		- N.I	- 60		
Date			97-08-01			_ `	y No.	68		
Depth (086			1027 mKB			_24 Hr. Pro	gress	33m		
Activity at	Repor	t Time		n hole, cut 63mr						
Rig & Rig	& Rig No.		East Coast #	‡2(	Grd. Elev.	40.30m		LD El.	44 Empl/D	
									44.5mKB	
	D	rilling Flu			Bit Data		Time Analy	SIS	i	11
P	ropertie	es	Additives	Number		#15		1		Hours
WT	1000		2 Litres	Size		96mm		2 Connections		
VIS	38		Polysafe	Type		Series 2		3 Trips		0.00
WL			20 Litres	Serial No.		20305-3		4 Deviation Sur	vey	2.00
CAKE			Lubrigel-L	Jets		Open		5 Rig Service		0.50
рН				Out At		ln		6 Circ. & Cond.	Mud	
GELS				Hours		8.5		7 Repair Rig		
SOLIDS	1	***************************************		M/HR		3.9		8 Run Casing 8		
PV				Cum. M		39		9 BOP Handling	g & Tstg.	
YP				Cum. Hrs.		10.5		0 Logging		
% OIL				Cond. T/B/G			1	1 Coring		8.50
% SAND				WT. on Bit		1000/1500		2 Formation Ts	tg.	
CL				RPM		600		3 Fishing		
		Deviatio	ns	Stroke		76	1	4 Recover Core	es	13.00
Depth	Deg.	Depth	Degree	Liner		51		Rig Up		
	1 3.		<u> </u>	I/m		110	Other			
				Ann Vel				WOC		
		<del> </del>		Surf. Press.		3000				
DST No.	<u> </u>	<u> </u>	Formation	1	1	L	То	Total Hours		24.00
ISI			FF	FSI	•	Press.	- : IHP		Times: IF	
PF			IFP	FFP		ISIP			FHP	
BHT			Choke	Results			#4.000000000000000000000000000000000000	FSIP		
Raduca r	ate num	n nressu		MACHP at 637	1 kpa GTS			and the state of t	***************************************	-
Reduce ra						· · · · · · · · · · · · · · · · · · ·				
Weather	ato pun	Sunny	, at 50.	Temp.	25 C	Roads	Good			Morandiron
	ample C		one Tests Logs F	levations, Casing, (						
Terriarys. O	ample, O	ore Desc, Te	ops, 105ts, 2090, 2	in tational, oading,				Drill	String Seq	uence
08:00 Ho	ure	Survey	at 994 mKR wa	as unsuccessful				Tool	Size	Length
00.00110	uis			survey as indica		unreliable.				
				3mm, from 995				Mill	96mm	0.11
08:00 Ho	urc		33m core	Omm, nom oco	111111111111111111111111111111111111111			STUB	90mm	
00.00 110	uis	1/6COVE	3311 0010					C/BBL	90mm	
		······································				<del></del>		X/O	90mm	
	***	1 lo to 10	)24.30 mKB					X/O	90mm	<del></del>
				isolitic limestone	o intorbodo	lod		H/T Rod	90mn	
						ieu		K/D	90mn	
				one and black s	niaic	Observation		100	1	2.01
			shows.	aroog from hou	zontol				1	
				egrees from hori	ZUHAI					+
		Marche	point formation	1		,				-
								Total Depth	102	7 mKE
				A	- D 1	1 D	Day Day		11,00	
Daily Co	st:	\$7,435	5.00 <b>Cur</b>	<b>n.:</b> \$584,903.00	, κeported	u roy:	Kon Kang	er String Wt.	11,00	U DAN

WELL NAM	ΛE: _			nd Big Spring	j#1					
Date			97-08-02				y No.	69		
Depth (080			1054 mKB			_24 Hr. Pro	gress	27m		
Activity at	Repor	t Time		n hole, cut 63m						
Rig & Rig	No.		East Coast #	2	Grd. Elev.	40.30m				
	_				,			_	44.5mKB	
	D	rilling Flu	ıid		Bit Data	.,	Time Analysi	S		
Р	roperti	es	Additives	Number		#15	1			Hours
WT	1000		4 Litres	Size		96mm	11.	Connections		
VIS	37		Polysafe	Туре		Series 2		Trips		0.50
WL				Serial No.		20305-3	l	Deviation Sur	vey	2.50
CAKE				Jets		Open		Rig Service		0.50
рН				Out At		ln	1	Circ. & Cond.	Mud	
GELS				Hours		9		Repair Rig		
SOLIDS	<u> </u>			M/HR		3.4		Run Casing &		
PV	1			Cum. M		66		BOP Handling	g & Tstg.	WWST.
YP				Cum. Hrs.		19.5		Logging		
% OIL	1			Cond. T/B/G				Coring		9.00
% SAND	<u> </u>			WT. on Bit		1000/150	0 12	Formation Ts	tg.	
CL				RPM		600		Fishing		
		Deviation	าร	Stroke		76	14	Recover Core	es	12.00
Depth	Deg.	Depth	Degree	Liner		51		Rig Up		
	<u> </u>	1027	3.50	I/m		110	Other			
	<del>                                     </del>			Ann Vel				WOC		
n	<b>-</b>			Surf. Press.		3000				
DST No.			Formation				То	Total Hours		24.00
ISI			— FF	FSI	-	Press	: IHP		Times: IF	
PF			IFP —	FFP		ISIP			FHP	
BHT			Choke	Results				FSIP	•	
	te pun	n pressur		MACHP at 637	71 kpa GTS			<b>-</b>		
		np strokes								
Weather	no pun	Sunny		Temp.	21 C	Roads	Good		***************************************	
	mnle C		ns Tests Logs E	levations, Casing,	Cementing, S	olids Control				
Tromanto. Oc	ampio, o	0.0 2000, .0	po,,3-,	<u> </u>				Drill :	String Sequ	uence
08:00 Hou	ırs	Survey a	t 1027 mKB in	dicated 3.5 de	arees off tru	e vertical		Tool	Size	Length
				mm core from			3			
08:00 Hou	ırs		27m core.				,	Mill	96mm	0.11
		11000101						STUB	90mm	0.14
	***	Up to 10:	57 mKB					C/BBL	90mm	3.44
		Ribbon a	and parted lime	stone (dolimiti	c) interbedo	led with		X/O	90mm	0.18
	······································	dark arev	shale phillite	chaotic interna	al structure t	hrough out.		X/O	90mm	
			melange.	Origotio irrorno				H/T Rod	90mm	
				grees from ho	rizontal			K/D	90mm	
		NVP, no		grees nom no	nzontai.					
		NVF, NO	5110W5.							<del> </del>
***************************************			<u> </u>							-
									<del> </del>	
		······································						Total Depth	1054	mKE
- II		A==	^^		O Donarta	1 D.v.	Ron Range		11,000	
Daily Cos	st:	\$7,435.	.00 <b>Cun</b>	m.: \$592,338.U	00 Reported	люу.	Kon Kange	Gung vvi.	11,000	יייי

WELL NAM	1E:		Delpet Vinla	nd Big Spring	j # 1					
Date Depth (0800 hrs) Activity at Report Time Rig & Rig No.			97-08-03				y No.	70		
Depth (080	0 hrs)		1087 mKB			_24 Hr. Pro	gress	33m	,	
Activity at	Repor	t Time		n hole, cut 63m						
Rig & Rig I	No.		East Coast #	2	Grd. Elev.	40.30m				
	•							_	44.5mKB	
		rilling Flu			Bit Data		Time Analysi	S		
	operti		Additives	Number		#15	1			Hours
WT	"1000		5 Litres	Size		96mm		Connections		
VIS	38		Polysafe	Туре		Series 2		Trips		
WL				Serial No.		20305-3	1	Deviation Sur	vey	0.50
CAKE				Jets		Open		Rig Service	N.A. al	0.50
pН				Out At		ln In		Circ. & Cond.	Mua	
GELS				Hours		10.5		Repair Rig	O1	-
SOLIDS				M/HR		3.3		Run Casing &		
PV				Cum. M		99		BOP Handling	g & 1 stg.	
YP				Cum. Hrs.		30		Logging		40.50
% OIL				Cond. T/B/G		10001100		Coring		10.50
% SAND				WT. on Bit		1000/1500		Formation Ts	tg.	
CL				RPM		600		Fishing		40.00
		Deviation		Stroke		76	14	Recover Core	<del>2</del> 8	13.00
Depth	Deg.	Depth	Degree	Liner		51		Rig Up		ļ
				l/m		110	Other	1000		
				Ann Vel				woc		
		<u> </u>		Surf. Press.	<u> </u>	3000	<u> </u>			04.00
DST No.	*******		Formation		-	-	To	Total Hours	T: II	24.00
ISI			FF	FSI		Press.:	: IHP		Times: IF	
PF			IFP	FFP		ISIP			. FHP	
BHT			Choke	Results				FSIP		-
			e at 1200 kpa	MACHP at 637	1 kpa GTS					
Reduce ra	te pun									
Weather		Overcast		Temp.	15 C	Roads	Good			
Remarks: Sa	mple, C	ore Desc, To	ps, Tests, Logs, E	levations, Casing,	Cementing, So	olids Control				
				MANAGEMENT OF THE PARTY OF THE					String Seq	
08:00 Hou			m hole, cut 63r	nm core from 1	1054 mKB to	o 1087 mKB		Tool	Size	Length
08:00 Hou	rs	Recover	33m core.					1 A - 11		0.44
								Mill	96mm	<u> </u>
	***		83. <u>43 mKB</u>					STUB	90mm	
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		and parted grey				black shale.	C/BBL	90mm	<u> </u>
			melange sequ					X/O	90mm	
			from 10-20 de	grees from hor	izontal, but	occasonally	up to 50 degr	X/O	90mm	<del></del>
		NVP, no		v				H/T Rod	90mm	
**************************************		Possible	Brent Island T	hrust in the No	orthwest Arr	n formation.		K/D	90mm	2.87
								Total Depth	1087	7 mKE
- II -		A= :0=	20 2		O Danama	I Dv.	Ron Range		11,000	
Daily Cos	π:	\$7,435.	.00 <b>Cu</b> m	i \$599,773.0	0 Reported	ı Бу.	Non Nange	Louing vvi.	11,000	, 57(1)



WELL NA	AME:			nd Big Spring	# 1		A.I		7.4		
Date			97-08-04				y No.	-	71 20m		
	th (0800 hrs) vity at Report Time & Rig No.		1117 mKB			24 Hr. Pro	gress	-	30m		
-	_	t Time		n hole, cut 63m		10.00					
Rig & Rig	g No.		East Coast #	<u> 2</u>	Grd. Elev.	40.30m			V.D. Class	14 Emi/D	
										14.5mKB	***************************************
		rilling Flu			Bit Data	1 114 5	Time Ana	Iysı	5		Hours
	Properti	es	Additives	Number		#15		7	Connections		nouis
WT	1000		5 Litres	Size		96mm			Connections		
VIS	38		Polysafe	Туре		Series 2			Trips Deviation Sur	1011	
WL			20 Litres	Serial No.		20305-3				vey	0.50
CAKE			Lubrigel-L	Jets		Open			Rig Service Circ. & Cond.	Mud	0.50
рН				Out At		ln ln				Mud	
GELS				Hours		8			Repair Rig	0	
SOLIDS				M/HR		3.4			Run Casing &		
PV				Cum. M		129			BOP Handling	& Istg.	
ΥP				Cum. Hrs.		38			Logging		0.00
% OIL				Cond. T/B/G					Coring		8.00
% SAND				WT. on Bit		1000/1500	)		Formation Ts	ig.	ļ
CL				RPM		600			Fishing		15.50
		Deviation	ns	Stroke		76		14	Recover Core	S	15.50
Depth	Deg.	Depth	Degree	Liner		51			Rig Up		
				l/m		110	Other				
				Ann Vel					woc		
				Surf. Press.		3000					
DST No.	1		Formation				_ To		Total Hours		24.00
ISI			FF	FSI		Press.	: IHP			Times: IF	
PF	-		IFP	FFP		ISIP				FHP	
BHT			Choke	Results				-	FSIP		<del></del>
Reduce	rate pun	np pressui	re at 1200 kpa	MACHP at 637	'1 kpa GTS.						
Reduce	rate pun	np strokes	at 64.								
Weather		Overcas		Temp.	12 C	Roads	Good			····	
Remarks: \$	Sample, C	ore Desc, To	ops, Tests, Logs, E	levations, Casing,	Cementing, So	olids Control		.,	·		
										String Seq	
08:00 Ho			m hole, cut 63r	mm core from 1	1087 mKB to	1117 mKB			Tool	Size	Length
08:00 Ho	ours	Recover	30m core.								
							·····		Mill	96mm	
	***		18.86 mKB.						STUB	90mm	
		Sequenc	ce of massive r	odular and ool	itic limestor	ie			C/BBL	90mm	
		interbed	ded with dark g	rey shale.					X/O	90mn	
		Bedding	20-30 degrees	s from horizonta	al.				X/O	90mn	
		NVP, no							H/T Rod	90mn	
		This is p	ossibly a repea	at of the march	e point (equ	iivalent) forn	nation.		K/D	90mn	n 2.87
<u> </u>											
,											
				· · · · · · · · · · · · · · · · · · ·							
		· · · · · · · · · · · · · · · · · · ·			·						
		.,,							Total Depth	111	
Daily Co	nst:	\$9,235	.00 <b>Cun</b>	n.: \$609,008.0	0 Reported	Bv:	Ron Ra	nge	r String Wt.	11,00	0 DAN

WELL NAME:				nd Big Spring	#1					
Date			97-08-05				y No.	72		
Depth (080			1150 mKB			_24 Hr. Pro	gress	33m		
Activity at	Repor	t Time		n hole, cut 63m				·····		~
Rig & Rig	No.		East Coast #	2	Grd. Elev.	40.30m				
						······································				
		rilling Fl	uid		Bit Data		Time Analy	/sis		
P	roperti	es	Additives	Number		#15		1		Hours
WT	1000		5 Litres	Size		96mm		2 Connections		
VIS	38		Polysafe	Туре		Series 2		3 Trips		
WL				Serial No.		20305-3		4 Deviation Sur	vey	
CAKE				Jets		Open		5 Rig Service		0.50
pH				Out At		ln		6 Circ. & Cond.	Mud	
GELS				Hours		8.5		7 Repair Rig		
SOLIDS				M/HR		3.9		8 Run Casing 8		
PV	1			Cum. M		162		9 BOP Handling	g & Tstg.	
YP	1			Cum. Hrs.		46.5		10 Logging		
% OIL				Cond. T/B/G				11 Coring		8.50
% SAND				WT. on Bit		1000/150	0	12 Formation Ts	tg.	
CL				RPM		600		13 Fishing		
		Deviatio	ns	Stroke		76		14 Recover Core	es	15.00
Depth	Dea	Depth	Degree	Liner		51		Rig Up		
Борит	- Jog.	Б ОР	3	l/m		110	Other			
				Ann Vel	-			woc		
***************************************				Surf. Press.		3000				
DST No.		<u> </u>	Formation	100	1		To	Total Hours		24.00
ISI			FF FF	FSI		Press			Times: IF	
PF			IFP —	- FFP		ISIP		•	FHP	
BHT			Choke	Results	•			FSIP	•	
	ato num	n process	re at 1000 kpa		1 kna GTS					
Reduce ra				W/YO/11 at 007	T Kpd OTO	•		·		
Weather	ate pun	Overcas		Temp.	3 C	Roads	Good	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·
			ops, Tests, Logs, E							
Remarks: Sa	ample, C	ore Desc, 10	ops, resis, Logs, E	ievalions, Casing,	Cernerung, 30	Silus Control		Drill	String Sequ	IANCA
00.00 110.		Mill OGra	m hole, cut 63r	nm core from 1	1117 mKR to	0 1150 mKF	3	Tool	Size	Length
08:00 Hou			· 33m core.	IIII COTE IIOIII	ITTT HIND U	O 1130 IIIKL		1001	OIZC	Longar
08:00 Hou	ırs	Recover	Som core.					Mill	96mm	0.11
	***	11-4-14	E4 00 ml/D					STUB	90mm	1
			51.99 mKB.	addad 11:45 ===	tad ribbar !	imontono		C/BBL	90mm	
			mestone interb		tea hobon i	mestone		X/O		
			k shale phyllite						90mm	
			20-40 degrees	form horizont	al.			X/O	90mm	
		NVP, no						H/T Rod	90mm	
Hana		March p	oint (equivalen	t).				K/D	90mm	2.87
water the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of										
								Total Depth	1150	) mKI
D :/ A		0= 00=	.00		0 Reported	1 0	Pon Pon	ger String Wt.	12000	
Daily Co	st:	\$7,235	5.00 <b>Cun</b>	1.: \$616,243.0	∪ <b>κeportec</b>	д Бу:	KUII KAII	ger Journa AAC	12000	

WELL NAM	1E:			Delpet Vinland Big Spring # 1									
Date			97-08-06				y No.	73					
Depth (080	-		1183 mKB			_24 Hr. Pro	gress	33m					
Activity at		t Time		n hole, cut 63m									
Rig & Rig I	No.		East Coast #	2	Grd. Elev.	40.30m		M.D. El	4.4.5 ma I/D				
				<b>1</b>	D'/ D /		Time Analys	-	44.5mKB				
		rilling Flu		NI	Bit Data	#15	Time Analys	S		Hours			
Name and Address of the Owner, which we have a second	opertie	es	Additives	Number	<u> </u>	96mm	1	Connections		ilouis			
WT	1000		8 Litres	Size	1	Series 2		Trips					
VIS	38		Polysafe	Type Serial No.		20305-3	.1	Deviation Survey					
WL			10 Litres	Jets		Open		Rig Service	voy	0.50			
CAKE	-		Lubrigel	Out At		In		Circ. & Cond.	Mud	0.00			
pH	ļ			Hours		8.5		Repair Rig	ivida	<del></del>			
GELS SOLIDS				M/HR		3.9		Run Casing 8	Cmta.				
PV	-			Cum, M		195		BOP Handling					
YP				Cum. Hrs.		55		Logging	9				
% OIL				Cond. T/B/G				Coring		8.50			
% SAND				WT. on Bit		1000/1500		Formation Ts	ta.				
CL				RPM		600		Fishing	<u> </u>				
<u> </u>	<u> </u>	Deviation	 ns	Stroke		76		Recover Core	es	15.00			
Depth	Deg.	Depth	Degree	Liner		51		Rig Up					
Ворит	Dog.	Борин	1209.00	I/m		110	Other						
	<u> </u>			Ann Vel				woc					
	<b>†</b>			Surf. Press.		3000							
DST No.	1	L	Formation				То	Total Hours		24.00			
ISI			FF	FSI		Press.	: IHP		Times: IF				
PF			IFP	FFP		ISIP			FHP				
BHT			Choke	 Results		_		FSIP					
Reduce ra	te pun	p pressur	e at 1100 kpa	MACHP at 637	1 kpa GTS.								
Reduce ra	te pun	np strokes	at 60.										
Weather		Overcast		Temp.	5 C	Roads	Good						
Remarks: Sa	mple, C	ore Desc, To	ps, Tests, Logs, E	levations, Casing,	Cementing, So	olids Control							
					· · · · · · · · · · · · · · · · · · ·				String Sequ				
08:00 Hou				nm core from 1	150 mKB to	1183 mKB	<b>,</b>	Tool	Size	Length			
08:00 Hou	rs	Recover	33m core.		·					0.44			
								Mill	96mm	0.11			
	***		66.02 mKB.					STUB	90mm				
<u> </u>		Oolitic lin	nestone, mass	ive, dark grey,	moderatly t	precciated.		C/BBL	90mm				
								X/O	90mm				
				form horizonta	al.		***************************************	X/O	90mm				
		NVP, no		1 ()				H/T Rod	90mm				
		March po	oint FM (equiva	alent).			was a second	K/D	90mm	2.01			
								Total Depth	1183	mKB			
Daily Cos	t:	\$12,585.	00 Cum	h.: \$628.828.0	0 Reported	By:	Ron Range		12500				
Daily Cos		Ψ,000.		+,		•	3	L					



WELL NAI	VIC.			and big spring	# 1		. N.	74		
Date			97-08-07			_	y No.	74 33m		
Depth (080	-		1216 mKB	- 1-1 1-00		_24 Hr. Pro	gress	33111		
Activity at		rt lime		n hole, cut 63m		40.00				
Rig & Rig	No.		East Coast	#2	Grd. Elev.	40.30m		KD El	44 E I/D	
							I=- A		44.5mKB	
		rilling Flu		1	Bit Data	T #45	Time Analy	SIS		
	roperti	es	Additives	Number		#15		0 0		Hours
WT	1000		8 Litres	Size		96mm	1	2 Connections		
VIS	38		Polysafe	Туре		Series 2	1	3 Trips		
WL	ļ		10 Litres	Serial No.		20305-3		4 Deviation Sur	vey	0.50
CAKE		<u></u>	Lubrigel	Jets		Open		5 Rig Service	R 4	0.50
pH	<u> </u>			Out At		In		6 Circ. & Cond.	iviud	
GELS				Hours		8.5		7 Repair Rig		
SOLIDS				M/HR		3.9		8 Run Casing 8		
PV				Cum. M		228		9 BOP Handling	g & 1 stg.	
YP				Cum. Hrs.		63.5		0 Logging		
% OIL				Cond. T/B/G				1 Coring		8.50
% SAND				WT. on Bit		1000/1500		2 Formation Ts	tg.	
CL				RPM		600		3 Fishing		
		Deviation	ns	Stroke		76		4 Recover Core	es	15.00
Depth	Deg.	Depth	Degree	Liner		51		Rig Up		
				l/m		110	Other			
				Ann Vel				woc		
				Surf. Press.		3000				T
DST No.	. 1	4	Formation				То	Total Hours		24.00
ISI			— FF	FSI	**	Press.	: IHP		Times: IF	
PF			IFP	FFP		ISIP			FHP	
BHT			Choke	Results				FSIP	•	
Reduce ra	te pun	np pressur	e at 1100 kpa	MACHP at 637	1 kpa GTS.					_
Reduce ra									······································	
Weather	<u>-</u>	Overcast		Temp.	5 C	Roads	Good			
Remarks: Sa	mple, C	ore Desc. To	ps, Tests, Logs, E	Elevations, Casing, (	Cementing, Sc	olids Control				
				<u></u>				Drill 9	String Seq	uence
08:00 Hou	ırs	Mill 96mi	m hole, cut 63i	mm core from 1	183 mKB to	1216 mKB		Tool	Size	Length
08:00 Hou		Recover	33m core.							
***************************************		Flow che	cks reveal no	hole losses or g	gains.			Mill	96mm	0.11
***			4.39 mKG	**************************************				STUB	90mm	0.14
***************************************		Total gas	s units at 287.	2.87% equivale	nt, no H2S			C/BBL	90mm	3.44
<del></del>			(B, 32 units		· · · · · · · · · · · · · · · · · · ·	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		X/O	90mm	0.18
			mKB, 34 units					X/O	90mm	
***************************************			(B, 41 units					H/T Rod	90mm	
			from stylotic	nartings				K/D	90mm	
			216.66 mKB	our unigo.					T	
				one with black s	hale-phyllit	Α			<b>_</b>	
			ded with oolitic		maio priyint				<b>_</b>	<del> </del>
***************************************				grees from hori	zontal NV/	no shows				
		Deduing	110111 10-20 UE	groos nom non	EVIICAL, INVI	, no onowo	•	Total Depth	1216	mKB
Daller	.4.	67.005	00 0	<b>1.:</b> \$636,463.00	Donorted	Rv:	Pon Pano	er String Wt.	12500	
Daily Cos	> C.	<b>\$</b> 7,635.	00 Cun	i \$030,403.00	Vahorian	∟y.	Non Nang	or lourney vvi.	12000	, 0/111



WELL NA	ME:			nd Big Spring	y # 1		***************************************			
Date			97-08-08			_	y No.	75		
Depth (08			1243 mKB			24 Hr. Pro	gress	28m		
Activity a	t Repo	rt Time		n hole, cut 63m						
Rig & Rig	ı No.		East Coast #	‡2	Grd. Elev.	40.30m				
								K.B. Elev.	44.5mKB	
		Orilling Fl	uid		Bit Data		Time Analys	is		
	Properti	es	Additives	Number		#15	1			Hours
WT	1000		5 Litres	Size		96mm	- I	Connections		3.00
VIS	38		Polysafe	Туре		Series 2	. 1	Trips		3.50
WL			10 Litres	Serial No.		20305-3		Deviation Sur	rvey	
CAKE			Lubrigel	Jets		Open		Rig Service		0.50
pН				Out At		ln		Circ. & Cond.	. Mud	
GELS				Hours		6.5		Repair Rig		
SOLIDS				M/HR		4.3		Run Casing 8		
PV				Cum. M		256		BOP Handlin	g & Tstg.	
YP				Cum. Hrs.		70.0		Logging		
% OIL				Cond. T/B/G			11	Coring		6.50
% SAND				WT. on Bit		1000/1500	12	Formation Ts	stg.	
CL				RPM		600	13	Fishing		
		Deviation	ns	Stroke		76	14	Recover Core	es	10.50
Depth	Deg.	Depth	Degree	Liner		51		Rig Up		
				l/m		110	Other			
<del></del>				Ann Vel				WOC		
				Surf. Press.		3000				
DST No.			Formation				То	Total Hours		24.00
ISI			FF	FSI		Press.	: IHP		Times: IF	
PF			IFP	FFP		ISIP			FHP	
BHT			Choke	Results		<del></del>		FSIP	•	
Reduce r	ate pun	np pressur	e at 1200 kpa	MACHP at 637	'1 kpa GTS.			<del></del>		_
Reduce r	ate pun	np strokes	at 60.							
Weather		Sunny		Temp.	22 C	Roads	Good			
Remarks: S	ample, C	ore Desc, To	ps, Tests, Logs, E	levations, Casing,	Cementing, Sc	lids Control				
							·	Drill	String Seq	uence
08:00 Ho	urs	Mill 96m	m hole, cut 63n	nm core from 1	216 mKB to	1222 mKB		Tool	Size	Length
		Recover	6m core.		-		-			
			ecks reveal no l					Mill	96mm	
			trip to 950 mKE					STUB	90mm	
		Backgro	und gas went fi	om 22 units to	34 units on	bottoms up	).	C/BBL	90mm	3.44
		Mill 96m	m hole, cut 63r	nm core from 1	1222 mKB to	1243 mKB	}	X/O	90mm	0.18
08:00 Ho	urs	Recover	22m core					X/O	90mm	0.26
		** Up to	1242.12 mKB					H/T Rod	90mm	1236
		Ollictic li	mestone dark g	rey brecciated				K/D	90mm	2.87
			actured (60-80			ted				
<del> </del>		from 122	20.94 mKB to 1	233.60 mKB (1	l2.66m).					
			no shows.	-						
		Bedding	from 20-30 de	grees from HZ.	•					
			oint formation.		**************************************			Total Depth	1243	mKB
Daily Co	st:	<b>\$</b> 7,535.		: \$643,998.00	0 Reported	Ву:	Ron Range	r String Wt.	12900	DAN
•		•			-	-			***************************************	



Date   97-08-09   24 Hr. Progress   33 m   Activity at Report Time   East Coast #2   Grd. Elev.   40.30m   Time Analysis   Activity at Report Time   East Coast #2   Grd. Elev.   40.30m   Time Analysis   Activity at Report Time   Additives   Number   Bit Data   Time Analysis   Time Analysis   Additives   Number   Bit Data   Time Analysis   Time Analysis   Additives   Number   Series 2   3 Trips   Trips   Number   Time Analysis   Additives   Number   Series 2   3 Trips   Number   Num	
Activity at Report Time Rig & Rig No.	
Properties	
Note	
Properties         Additives         Number         #15         1           WT         1000         5 Litres         Size         96mm         2 Connections           VIS         38         Polysafe         Type         Series 2         3 Trips           WL         10 Litres         Serial No.         20305-3         4 Deviation Survey           CAKE         Lubrigel         Jets         Open         5 Rig Service           pH         Out At         In         6 Circ. & Cond. Mud           GELS         Hours         6.5         7 Repair Rig           SOLIDS         M/HR         4.3         8 Run Casing & Cond. Mud           GELS         Hours         6.5         7 Repair Rig           SOLIDS         M/HR         4.3         8 Run Casing & Cond. Mud           GELS         Hours         6.5         7 Repair Rig           SOLIDS         M/HR         4.3         8 Run Casing & Cond. Mud           GELS         Hours         6.5         9 BOP Handling & Tst           YP         Cum. Hrs.         63.5         10 Logging           % OIL         Cond. T/B/G         11         Coring           % OIL         RPM         600 <t< th=""><th></th></t<>	
Properties	
WT	
VIS   38	Hours
WL	3.00
CAKE         Lubrigel         Jets         Open         5 Rig Service           pH         Out At         In         6 Circ. & Cond. Mud           GELS         Hours         6.5         7 Repair Rig           SOLIDS         M/HR         4.3         8 Run Casing & Cmtg.           PV         Cum. M         256         9 BOP Handling & Tst.           YP         Cum. Hrs.         63.5         10 Logging           % OIL         Cond. T/B/G         11 Coring           % SAND         WT. on Bit         1000/1500         12 Formation Tstg.           CL         RPM         600         13 Fishing           Deviations         Stroke         76         14 Recover Cores           Depth         Deg.         Depth         Degree         Liner         51         Rig Up           Depth         Deg.         Depth         Degree         Liner         51         Rig Up           DST No.         Formation         FFF         FSI         Press.: IHP         Total Hours           ISI         FF         FSI         Press.: IHP         FSIP           BHT         Choke         Results         FSIP           Reduce rate pump pressure at 1200 kpa MACHP at 6	
Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   Detect   D	
SELS   Hours   6.5   7   Repair Rig	0.50
SOLIDS   M/HR	
PV	
YP         Cum. Hrs.         63.5         10 Logging           % OIL         Cond. T/B/G         11 Coring           % SAND         WT. on Bit         1000/1500         12 Formation Tstg.           CL         RPM         600         13 Fishing           Deviations         Stroke         76         14 Recover Cores           Depth         Degree         Liner         51         Rig Up           Depth         Degree         Liner         51         WOC           Ann Vel         WOC         WOC         WOC           DST No.         Formation         To         Total Hours           ISI         FF         FSI         Press.: IHP         Times           PF         IFP         FFP         ISIP         FSIP           Reduce rate pump pressure at 1200 kpa MACHP at 6371 kpa GTS.         Reduce rate pump strokes at 60.         FSIP           Weather         Sunny         Temp.         21 C         Roads         Good           Remarks: Sample, Core Desc, Tops, Tests, Logs, Elevations, Casing, Cementing, Solids Control         Drill String           08:00 Hours         Mill 96mm hole, cut 63mm core from 1243 mKB to 1276 mKB         Tool         Size           Recover 33m core.         <	
% OIL         Cond. T/B/G         11 Coring           % SAND         WT. on Bit         1000/1500         12 Formation Tstg.           CL         RPM         600         13 Fishing           Depth         Deg. Depth         Degree         Liner         51         Rig Up           Depth         Degree         Liner         51         Rig Up           MOC         Ann Vel         WOC         WOC           Surf. Press.         3000         WOC           ISI         FF         FSI         Press.: IHP         Tonations           ISI         FF         FFP         ISIP         FINAL           Reduce rate pump pressure at 1200 kpa MACHP at 6371 kpa GTS.         FSIP         FSIP           Reduce rate pump strokes at 60.         Remarks: Sample, Core Desc, Tops, Tests, Logs, Elevations, Casing, Cementing, Solids Control         FOIL String           08:00 Hours         Mill 96mm hole, cut 63mm core from 1243 mKB to 1276 mKB         Tool Size           Recover 33m core.         Recover 33m core.         Mill         96           Loggers on location at 21:00 hours, 08-08-97.         C/BBL         90           Loggers on location at 21:00 hours, 08-08-97.         C/BBL         90	
% SAND         WT. on Bit         1000/1500         12 Formation Tstg.           CL         RPM         600         13 Fishing           Deviations         Stroke         76         14 Recover Cores           Depth         Deg.         Depth         Degree         Liner         51         Rig Up           Depth         Degree         Liner         51         Rig Up           Image: Company of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of t	
CL         RPM         600         13 Fishing           Deviations         Stroke         76         14 Recover Cores           Depth         Deg.         Depth         Degree         Liner         51         Rig Up           Depth         Depth         Degree         Liner         51         Rig Up           Image: Problem of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control	8.50
Deviations	
Depth   Deg.   Depth   Degree   Liner     51	
Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill   Mill	12.00
Moc	
Surf. Press.   3000	
DST No. Formation To Total Hours  ISI FF FSI Press.: IHP ISIP Times  PF IFP FFP ISIP FSIP  Reduce rate pump pressure at 1200 kpa MACHP at 6371 kpa GTS.  Reduce rate pump strokes at 60.  Weather Sunny Temp. 21 C Roads Good  Remarks: Sample, Core Desc, Tops, Tests, Logs, Elevations, Casing, Cementing, Solids Control  Drill String  08:00 Hours Mill 96mm hole, cut 63mm core from 1243 mKB to 1276 mKB Tool Size  Recover 33m core.  08:00 Hours Flow checks reveal no hole losses or gains.  Mill 96  STUB 90  Loggers on location at 21:00 hours, 08-08-97.  C/BBL 90  X/O 90	
Si	
PF IFP FFP ISIP FSIP  BHT Choke Results FSIP  Reduce rate pump pressure at 1200 kpa MACHP at 6371 kpa GTS.  Reduce rate pump strokes at 60.  Weather Sunny Temp. 21 C Roads Good  Remarks: Sample, Core Desc, Tops, Tests, Logs, Elevations, Casing, Cementing, Solids Control  Drill String  08:00 Hours Mill 96mm hole, cut 63mm core from 1243 mKB to 1276 mKB Tool Size  Recover 33m core.  08:00 Hours Flow checks reveal no hole losses or gains. Mill 96  Loggers on location at 21:00 hours, 08-08-97. C/BBL 96  X/O 96	24.00
Reduce rate pump pressure at 1200 kpa MACHP at 6371 kpa GTS.  Reduce rate pump strokes at 60.  Weather Sunny Temp. 21 C Roads Good  Remarks: Sample, Core Desc, Tops, Tests, Logs, Elevations, Casing, Cementing, Solids Control  Drill String  08:00 Hours Mill 96mm hole, cut 63mm core from 1243 mKB to 1276 mKB Tool Size  Recover 33m core.  08:00 Hours Flow checks reveal no hole losses or gains. Mill 96  Loggers on location at 21:00 hours, 08-08-97. C/BBL 96  X/O 96	
Reduce rate pump pressure at 1200 kpa MACHP at 6371 kpa GTS.  Reduce rate pump strokes at 60.  Weather Sunny Temp. 21 C Roads Good  Remarks: Sample, Core Desc, Tops, Tests, Logs, Elevations, Casing, Cementing, Solids Control  Drill String  08:00 Hours Mill 96mm hole, cut 63mm core from 1243 mKB to 1276 mKB Tool Size  Recover 33m core.  08:00 Hours Flow checks reveal no hole losses or gains. Mill 96  STUB 90  Loggers on location at 21:00 hours, 08-08-97. C/BBL 90  X/O 90	
Reduce rate pump strokes at 60.  Weather Sunny Temp. 21 C Roads Good  Remarks: Sample, Core Desc, Tops, Tests, Logs, Elevations, Casing, Cementing, Solids Control    Drill String	
WeatherSunnyTemp.21 CRoadsGoodRemarks: Sample, Core Desc, Tops, Tests, Logs, Elevations, Casing, Cementing, Solids ControlDrill String08:00 HoursMill 96mm hole, cut 63mm core from 1243 mKB to 1276 mKBToolSizeRecover 33m core.08:00 HoursFlow checks reveal no hole losses or gains.Mill96STUB90Loggers on location at 21:00 hours, 08-08-97.C/BBL90X/O90	
Remarks: Sample, Core Desc, Tops, Tests, Logs, Elevations, Casing, Cementing, Solids Control    Drill String	
Drill String           08:00 Hours         Mill 96mm hole, cut 63mm core from 1243 mKB to 1276 mKB         Tool         Size           Recover 33m core.           08:00 Hours         Flow checks reveal no hole losses or gains.         Mill         96           STUB         90           Loggers on location at 21:00 hours, 08-08-97.         C/BBL         90           X/O         90	
08:00 Hours Mill 96mm hole, cut 63mm core from 1243 mKB to 1276 mKB Tool Size  Recover 33m core.  08:00 Hours Flow checks reveal no hole losses or gains. Mill 96  STUB 90  Loggers on location at 21:00 hours, 08-08-97. C/BBL 90  X/O 90	
Recover 33m core.	quence
08:00 Hours         Flow checks reveal no hole losses or gains.         Mill         96           STUB         90           Loggers on location at 21:00 hours, 08-08-97.         C/BBL         90           X/O         90	Length
STUB   90	
Loggers on location at 21:00 hours, 08-08-97.         C/BBL         90           X/O         90	m 0.11
X/O 90	
	m 3.44
11.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	m 0.18
** Up to 1373.83 mKB X/O 90	m 0.26
Grey to dark grey oolitic limestone with bands of grey H/T Rod 90	
micritic limestone. K/D 90	m 2.87
Bedding 10-20 degrees from horizontal	
March point (equivalent) formation.	
	76 mKB
Daily Cost: \$7,535.00 Cum.: \$651,533.00 Reported By: Ron Ranger String Wt.	00 DAN



WELL NAI	VIE:			nd Big Spring	Day No.							
Date			97-08-10			_	y No.		77			
Depth (08)			1309 mKB			_24 Hr. Pro	gress		33m			
Activity at	-	rt Time		n hole, cut 63m								
Rig & Rig	No.		East Coast #	2	Grd. Elev.	40.30m						
										44.5mKB		
		rilling Flu	ıid		Bit Data		Time Ana	alys	is			
	roperti	es	Additives	Number		#15		1			Hours	
WT	1000		5 Litres	Size		96mm			Connections		3.00	
VIS	39	····	Polysafe	Туре		Series 2			Trips			
WL			5 Litres	Serial No.		20305-3			Deviation Sur	vey		
CAKE			Lubrigel	Jets		Open	<u> </u>		Rig Service		0.50	
рН				Out At		ln .			Circ. & Cond.	Mud		
GELS				Hours		8			Repair Rig			
SOLIDS				M/HR		4			Run Casing 8			
PV				Cum. M		322			BOP Handling	g & Tstg.		
YP				Cum. Hrs.		86.5			Logging			
% OIL				Cond. T/B/G					Coring		8.00	
% SAND				WT. on Bit		1000/1500	)		Formation Ts	tg.		
CL				RPM		600			Fishing			
		Deviation		Stroke		76		14	Recover Core	€S	12.50	
Depth	Deg.	Depth	Degree	Liner		51			Rig Up			
				I/m		110	Other					
				Ann Vel					woc			
				Surf. Press.		3000						
DST No.			Formation		-		_ To		Total Hours		24.00	
ISI			FF	FSI		Press.	: IHP			Times: IF		
PF			IFP	FFP		ISIP	•			FHP		
BHT			Choke	Results			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		FSIP			
			e at 1200 kpa l	MACHP at 637	1 kpa GTS.						······································	
Reduce ra	te pun	np strokes	at 60.						,			
Weather		Sunny		Temp.	21 C	Roads	Good		C			
			os, Tests, Logs, El				<del>,</del>			<u> </u>		
08:00 Hou	rs		n hole, cut 63n	nm core from 1	276 mKB to	1309 mKB				String Sequ		
***************************************			33m core.						Tool	Size	Length	
08:00 Hou	rs		cks reveal no h	nole losses or g	gains.				Mill	96mm	0.11	
			in BOP drill.	······································					STUB	90mm	0.14	
		Loggers	on location at 2	21:00, 08-08-9	7.				C/BBL	90mm	3.44	
				mineral constant control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control control contr								
			309.84 mKB						X/O	90mm	0.18	
			38.08 to 1305.3						X/O	90mm	0.26	
			nd ribbon grey			).			H/T Rod	90mm	1302	
			30-40 degrees		al.		Name of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second seco		K/D	90mm	2.87	
			5.31 to 1309.8									
			າestone, dark ເ									
			from 0 to 20 de		rizontal. N\	/P, no show	rs.					
		March Po	oint equivalent	formation.						<u> </u>		
									Total Depth	1309		
Daily Cos	. f ·	\$10,235.0	00 <b>Cum</b>	.: \$661,768.00	Reported	Bv:	Ron Ra	naei	r String Wt.	13700	DAN	



WELL NAME:				and Big Spring	#1					
Date			97-08-11				y No.	78		
Depth (08			1313mKB			24 Hr. Pro	gress	4m		TO STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE ST
Activity at		rt Time		n hole, cut 63m	m core.					
Rig & Rig	No.		East Coast #	#2	Grd. Elev.	40.30m		:		
								<b>K.B. Elev</b> . 44.5mKB		
		Drilling Flu			Bit Data		Time Analysi	S		
	roperti		Additives	Number	# 16	#15	1			Hours
WT	1000		5 Litres	Size	96mm	96mm		Connections		1.00
VIS	39		Polysafe	Туре	Series 8	Series 2		Trips		17.00
WL				Serial No.	16941-24	20305-3	<u> </u>	Deviation Sur	vey	
CAKE				Jets	Open	Open		Rig Service		0.50
рН				Out At	ln'	1213		Circ. & Cond.	Mud	
GELS				Hours	1.	1		Repair Rig		2.50
SOLIDS				M/HR	1	4		Run Casing 8		
PV				Cum. M	1	323	9	BOP Handling	g & Tstg.	
YP				Cum. Hrs.	1	87.5		Logging		
% OIL				Cond. T/B/G	Out Gauge			Coring		2.00
% SAND				WT. on Bit	500	1000/1500	. 1	Formation Ts	tg.	
CL				RPM	300	600		Fishing		
		Deviation	าร	Stroke	76	76	14	Recover Core	es	1.00
Depth	Deg.	Depth	Degree	Liner	51	51		Rig Up		
				l/m	90	110	Other	·		
				Ann Vel				WOC		
				Surf. Press.	2000	3000				
DST No.			Formation				То	Total Hours		24.00
ISI			FF	FSI	-	Press.:	: IHP		Times: IF	
PF			IFP	FFP	:	ISIP			FHP	
BHT			Choke	Results		-	-	FSIP	<del>,</del>	
Reduce ra	ate pun	np pressur	e at 1200 kpa	MACHP at 637	1 kpa GTS.			•		•
Reduce ra	ate pun	np strokes	at 60.							
Weather		Rain		Temp.	15 C	Roads	Good			
Remarks: Sa	ample, C	ore Desc, To	ps, Tests, Logs, E	levations, Casing,	Cementing, Sol	ids Control				
08:00 Hou				nm core from 1				Drill	String Seq	uence
		Wireline	broke on core	recovery (worn	out).			Tool	Size	Length
		Dummy t	rip to 1200 mk	B, no hole filla	t 1312.					
	•	Ensure c	lean hole, no h	nole losses or g	ains.			Mill	76mm	0.08
		POOH, 5	8 stands (348	singles), 1044r	n, lay down	88 joints, 2	64m.	R/Shell	75mm	0.12
		Recover	BHA, 3m core	, strap pipe, de	pth correct.			C/BBL	70mm	3.98
				overy with new		able (21mm	ı), 6 x 19.	C/BBL	70mm	1.72
				II, (46mm ID), o				L/CPL	70mm	0.3
	70mm, N/T tuff rod (JKS), 88 singles, (3.05m), X/O to 90mm H/T rod.								70mm	0.22
				TD at 1312 mk				N/T Rod	70mm	268.4
				y new BHA into			KB.	X/O	90mm	0.17
08:00 Hou	urs			Oolitic limesto				H/T Rod	90mm	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
				o shows. Bedd				K/Down	90mm	
			oint Formation							
				(-1/-				Total Depth	1313	mKB
Daily Cos	st:	\$9,435.	00 <b>C</b> un	<b>1.:</b> \$671,203.00	Reported	Bv:	Ron Rangei		13000	
, ~~~		+3,.00.		,		•	3	<u> </u>	(1)	

WELL NA	ME:			nd Big Spring						
Date			97-08-12				ıy No.	79	-	
Depth (08			1346 mKB			24 Hr. Pro		33m		
Activity a	-	rt Time		n hole, cut and				·····		
Rig & Rig	No.		East Coast #	<u>2</u>	Grd. Elev.	40.30m				
		·				orace misming and a second and a second and a second and a second and a second and a second and a second and a	.,		44.5mKB	
		Orilling Flo			Bit Data		Time Analys	is		
	Properti	es	Additives	Number	# 16		1			Hours
WT	1000		4 Litres	Size	76mm			Connections		3.00
VIS	38		Polysafe	Туре	Series 8			Trips	on <del>varancem anna an an</del>	
WL				Serial No.	16941-24			Deviation Sur	vey	
CAKE				Jets	Open			Rig Service		0.50
рН				Out At	In			Circ. & Cond.	Mud	
GELS				Hours	12.5			Repair Rig		
SOLIDS				M/HR	2.5			Run Casing 8		
PV				Cum. M	34			BOP Handling	g & Tstg.	
YP				Cum. Hrs.	13.5			Logging		
% OIL				Cond. T/B/G				Coring		12.50
% SAND				WT. on Bit	1000/1500			Formation Ts	tg.	
CL				RPM	500			Fishing		
		Deviation	ns	Stroke	76		14	Recover Core	es	8.00
Depth	Deg.	Depth	Degree	Liner	51			Rig Up		
				l/m	110		Other			
				Ann Vel				woc		
				Surf. Press.	3000					
DST No.			Formation		_		To	Total Hours		24.00
ISI			FF FF	FSI	-	Press.	: IHP		Times: IF	
PF			IFP	FFP		ISIP			FHP	
BHT			Choke	Results		_		FSIP		_
Reduce ra	ate pun	np pressur	e at 800 kpa M	ĀCHP at 6371	kpa GTS.					
Reduce ra	ate pun	np strokes	at 40.							
Weather		Overcast	t	Temp.	15 C	Roads	Good			
Remarks: S	ample, C	ore Desc, To	ps, Tests, Logs, E	levations, Casing, 0	Cementing, Soli	ds Control				
								Drill :	String Sequ	uence
08:00 Ho	urs	Mill 76m	m hole, cut 46n	nm core from 1	313 mKB to	1346 mKB	3	Tool	Size	Length
08:00 Ho	urs		33m core.							
		No hole I	losses or gains	•		:		Mill	76mm	
			roper depth co	ntrol.				R/Shell	70mm	
		** Up to	1342.72 mKB.					C/BBL	70mm	3.98
		Parted a	nd ribbon limes	stone with black	c shale			C/BBL	70mm	1.72
		Phyillte,	abundant quar	tz carbonate ve	eining			L/CPL	70mm	
		minor py	rites					X/O	70mm	0.22
MARKET CONTRACTOR OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY		Bedding	20 to 30 degre	es from horizoi	ntal.			N/T Rod	70mm	268.4
		No VPS,	no shows.					X/O	90mm	0.17
			oint formation (	equivalent)				BHA: 274.99	m	
		•				····		H/T Rod	90mm	1071
····								K/Down	90mm	0.01
	·····							Total Depth	1346	mKB
Daily Co	st:	\$9,435.	.00 <b>Cum</b>	.: \$680.638.00	Reported	By:	Ron Range		13000	DAN
,	-	,		,	•	-	_	<del></del>		



WELLNA	IVIE:			ina Big Spring	# 1			-		
Date			97-08-13				ay No.	80		
Depth (08			1387.KB			24 Hr. Pro	ogress	41m	that the same	
Activity a		rt Time		ole , cut and re			·			
Rig & Rig	No.		East Coast D	Orilling #2	Grd. Elev.	40.3m				
							<u></u>		44.5mKB	·
		Drilling Flu			Bit Data	T	Time Analys	is		
	roperti		Additives	Number	# 16	#15	1 1			Hours
WT	1010			Size	76mm			Connections		5.00
VIS	39			Туре	Series 6			Trips		
WL				Serial No.	16941-24			Deviation Sur	vey	
CAKE		·····		Jets	Open			Rig Service		0.50
рН				Out At	<u>In</u>			Circ. & Cond.	Mud	
GELS				Hours	10.5			Repair Rig		
SOLIDS				M/HR	3.1			Run Casing 8		
PV				Cum. M	74			BOP Handlin	g & Tstg.	
YP		with the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of t		Cum. Hrs.	24			Logging		
% OIL				Cond. T/B/G				Coring		10.50
% SAND				WT. on Bit	1000/1500			Formation Ts	tg.	
CL				RPM	500			Fishing		
		Deviation	ıs	Stroke	76		14	W.O.C.		8.00
Depth	Deg.	Depth	Degree	Liner	51			Rig Out		
	3.5		3.5	l/m	110		Other	Total Hours		24.00
				Ann Vel				WOC		
				Surf. Press.	3000					
DST No.			Formation		Interval		_ <sup>,</sup> To			
ISI			FF	FSI		Press.	: IHP		Times: IF	
PF			IFP	FFP		ISIP			FHP	
BHT			Choke	Results			,	FSIP		
Reduced	rate pu	mp pressu	re at 8.00kpa,	MACP at 6371	kpa GTS					
Reduced	rate pu	mp strokes	at 40							
Weather		Rain		Temp.	17 C	Roads	Good			
Remarks: Sa	ample, C	ore Desc, Top	os, Tests, Logs, El	evations, Casing, (	Cementing, Sol	ids Control				
08:00 hrs.	. Mill 7	6mm hole	, cut 46mm coi	e from 1346ml	KB to 1387 r	nKB		Drill	String Sequ	ience
08:00 hrs.	. Reco	ver 41m c	ore		1			Tool	Size	Length
	No h	ole losses	or gains					MILL	70mm	0.08
	Ensu	re proper o	depth control					4/SHELL	75mm	0.12
								C/BBL	70mm	3.98
		13 1 100	37.51 mKB					C/BBL	70mm	1.72
	***	Up to 138	77.01 11110					1. (0.00)	70	0.3
	***			e interbedded v	vith Micritic			L/CPL	70mm	
	***	Mainly Co			vith Micritic			X/O	70mm 70mm	
	***	Mainly Co	olitic Limestone e and Black St							0.22
	***	Mainly Co	olitic Limestone e and Black Sl 20 to 30 degre	nale-Phyllites				X/O	70mm	0.22 268.4
	***	Mainly Co Limeston Bedding 2 NVP, No	olitic Limestone e and Black Sl 20 to 30 degre shows	nale-Phyllites es from horizor				X/O N/T ROD	70mm 70mm 90mm	0.22 268.4
	***	Mainly Co Limeston Bedding 2 NVP, No	olitic Limestone e and Black Sl 20 to 30 degre	nale-Phyllites es from horizor				X/O N/T ROD X/O	70mm 70mm 90mm	0.22 268.4 0.17
	***	Mainly Co Limeston Bedding 2 NVP, No	olitic Limestone e and Black Sl 20 to 30 degre shows	nale-Phyllites es from horizor				X/O N/T ROD X/O BHA:274.99	70mm 70mm 90mm	0.22 268.4 0.17 1110
	***	Mainly Co Limeston Bedding 2 NVP, No	olitic Limestone e and Black Sl 20 to 30 degre shows	nale-Phyllites es from horizor				X/O N/T ROD X/O BHA:274.99I H/T ROD	70mm 70mm 90mm VJ 90mm	0.22 268.4 0.17 1110
	***	Mainly Co Limeston Bedding 2 NVP, No	olitic Limestone e and Black Sl 20 to 30 degre shows	nale-Phyllites es from horizor				X/O N/T ROD X/O BHA:274.99I H/T ROD	70mm 70mm 90mm VJ 90mm	0.22 268.4 0.17 1110 2.01



WELL NA	ME:									
Date	F		97-08-14			Day No. 81				
Depth (08			1396.82 mKl			24 Hr. Pro	ogress	11m		
Activity at	-	rt Time	Mill 76mm ho	ole, cut and rec	overing 46m	ım core				
Rig & Rig	No.		East Coast #	2	Grd. Elev.	40.30m				
								K.B. Elev.	44.5mKB	
		Orilling Fl	uid		Bit Data		Time Analys	is		
F	Properti	es	Additives	Number	# 16		1			Hours
WT	1010		6 Litres	Size	76mm			Connections		1.00
VIS	39		Polysafe	Type	Series 8		3	Trips		6.00
WL				Serial No.	16941-24		4	Deviation Sur	vey	
CAKE				Jets	Open		5	Rig Service		0.50
рН				Out At	1398.82		6	Circ. & Cond.	Mud	1.00
GELS				Hours	2.5		7	Repair Rig		
SOLIDS				M/HR	3.5		8	Run Casing &	Cmtg.	
PV				Cum. M	84.82		9	BOP Handling	y & Tstg.	
YP				Cum. Hrs.	26.5		10	Logging		11.00
% OIL				Cond. T/B/G	-15%		11	Coring		2,50
% SAND				WT. on Bit	1000/1500		12	Formation Tst	tg.	
CL				RPM	600		13	Fishing		
		Deviation	ns	Stroke	76		14	Recover Core	s	2.00
Depth	Deg.	Depth	Degree	Liner	51			Rig Up		
				I/m	110		Other		·	
				Ann Vel				woc		
				Surf. Press.	3000					
DST No.		<del>1</del>	Formation			Lucian de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant de la constant	То	Total Hours		24.00
ISI			FF	FSI	-	Press.	.: IHP		Times: IF	
PF			IFP	FFP		ISIP		William Town	FHP	
BHT			Choke	– Results		•	BCCC CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRAC	FSIP		
Reduce ra	ate pun	np pressur	re at 800 kpa M	ACHP at 6371	kpa GTS.			<del>-</del>		•
Reduced										
Weather		Rain		Temp.	18 C	Roads	Good			
	ample, C	ore Desc. To	ps, Tests, Logs, El		Cementing, Soli	ds Control				
								Drill S	String Sequ	uence
08:00 Hrs		Mill 76mi	m hole, cut 46n	nm core from 1	387 mKB to	1396.82 n	nKB.	Tool	Size	Length
		Recover	7.92 m core. N	lo hole losses	or gains.					
			82 mkB, swivel			hole at 13	96.82 mKB.	Mill	76mm	0.08
	····		trip to 1200 mK					R/Shell	75mm	<del></del>
			stand drill rod, e					C/BBL	70mm	3.98
			m of 76mm hole					C/BBL	70mm	+
			estern Atlas, ut		ator, conduc	ct .		L/CPL	70mm	<del></del>
			ogs as follows:					X/O	70mm	· <del> </del>
MIGHT THE TAXABLE PROPERTY.			nKB to 352 mK	B: Induction S	Spontaneous	potential		N/T Rod	70mm	
			Ray, Sonic had			P	· · · · · · · · · · · · · · · · · · ·	X/O	90mm	<b>+</b>
			empts failed to					BHA: 274.99		1
08:00 Hrs			Compensated r			runs un to	1393.25mKB	H/T Rod	90mm	1119
00.001118			point (equivaler					K/Down	90mm	
***************************************			t styolit bedding					Total Depth	1396.82	
Daily Co	n+.	\$9,435.		: \$699,508.00			Ron Range		14100	
Daily Cos	5 L.	<b>უ</b> ყ,4აე.	.oo Cum	\$099,000.00	, izehoitea i	<i>y</i> .	ixon ixange	Journa VVC	17100	DAIN



WELL NAM	VIE:			ina Big Spring	]#1	<del></del>		_		
Date			97-08-15				ay No.	82		
Depth (080			1396.82 mKI	·	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	_24 Hr. Pr	ogress	0		
Activity at	•	rt Time	Circulate We		· · · · · · · · · · · · · · · · · · ·				······································	
Rig & Rig	No.	<u> </u>	East Coast #	<sup>‡</sup> 2	Grd. Elev.	40.30m				
									44.5mKB	
		Drilling Flu			Bit Data		Time Analys	is		
	roperti		Additives	Number			1			Hours
WT	1010			Size				Connections		
VIS	39			Туре				Trips		7.50
WL				Serial No.				Deviation Sur	vey	
CAKE				Jets				Rig Service		0.50
рН				Out At				Circ. & Cond.	Mud	
GELS				Hours				Repair Rig		
SOLIDS				M/HR				Run Casing 8		
PV				Cum. M			9	BOP Handlin	g & Tstg.	
YP				Cum. Hrs.				Logging		16.00
% OIL		***************************************		Cond. T/B/G			11	Coring		
% SAND				WT. on Bit			12	Formation Ts	tg.	
CL				RPM			13	Fishing		
	<u> </u>	Deviation	าร	Stroke			14	Recover Core	es	2.00
Depth	Deg.	Depth	Degree	Liner				Rig Up		
				l/m			Other			
**************************************				Ann Vel	,			woc		
**************************************	1			Surf. Press.						
DST No.			Formation	·····			То	Total Hours		24.00
ISI			— FF	FSI	_	Press	 .: IHP		Times: IF	
PF			IFP	FFP	to an advantage of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second	- ISIP			FHP	
ВНТ		MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MANAGE MA	Choke	Results				FSIP	•	
	te pun	no pressur	e at 800 kpa M	_	kpa GTS.			<del></del>	***************************************	•
Reduce ra										
Weather		Rain		Temp.	18 C	Roads	Good			
	mnle. C		ps, Tests, Logs, El							
		0.0 2 000, .0	po,	,9,				Drill	String Sequ	uence
08:00 Hrs.		Western	sonic had three	e run failures.			······································	Tool	Size	Length
			in CBL mode			<del></del>				
		Suite of le		Induction, Ga	amma rav. S	3. P.	······································	N/T Rod	70mm	75
		00110 0111		Acoustic (So				X/O	90mm	
				CNL Density	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			H/T Rod	90mm	
		Well was	verbally valida		In the section of the section between the section of			11,711,00	3011111	1011
08:00 Hrs.			ended to 138			net core)	······			
00.00 1113.			for plug and ab							
		1 Tepare I	ior plug and ab	andonnentor	Dig Opinig				<del> </del>	
NOTE:	Tho	ooliner bee	d OD of 105mm	duo to a side	nad not ho	ina				
NOTE.			fully, this tool w			ing				
						hu			ļ	
-			1, the logging of			υy		-	<del> </del>	ļ
***************************************			ool out as they					Total Depth	<u> </u>   1386.17	mI/D
<u> </u>			nt to location as			D.,,,	Ron Range			
Daily Cos	t:	\$124,080	Cum	.: \$823,588.00	rehousea	Бy.	Kon Kange	Louing AAr	14100	DAN



WELL NAM	ΛE:			Delpet Vinland Big Spring # 1				Day No. 92				
Date			97-08-16			-	ay No.		83			
Depth (080			1390 mKB			_24 Hr. Pro	ogress	С	)			
Activity at		rt Time	Plug and aba									
Rig & Rig	No.		East Coast #	<sup>‡</sup> 2	Grd. Elev.	40.30m						
							T	K.B. Elev.	44.5mKB			
		Orilling Flu		<u> </u>	Bit Data	· · · · · · · · · · · · · · · · · · ·	Time Anal	ysis				
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	roperti	es	Additives	Number		ļ		1		Hours		
WT				Size				2 Connections				
VIS				Туре				3 Trips		2.50		
WL				Serial No.				4 Deviation Su	ırvey			
CAKE	ļ			Jets				5 Rig Service		0.50		
pН	ļ			Out At				6 Circ. & Cond	d. Mud	2.00		
GELS				Hours				7 Repair Rig				
SOLIDS				M/HR				8 Run Casing		4.00		
PV				Cum. M				9 BOP Handlii	ng & Tstg.			
YP				Cum. Hrs.				10 Logging				
% OIL				Cond. T/B/G				11 Coring				
% SAND				WT. on Bit				12 Formation T	stg.			
CL				RPM				13 Fishing				
		Deviation		Stroke				14 W.O.C.		14.00		
Depth	Deg.	Depth	Degree	Liner				RIG UP				
				I/m			Other	Total Hours		24.00		
				Ann Vel				woc				
				Surf. Press.								
DST No.			Formation		_		To	Total Hours		24.00		
ISI			FF	_ FSI		_ Press.	.: IHP		_Times: IF			
PF	-		IFP	FFP		ISIP			_ FHP			
BHT		· · · · ·	Choke	_ Results	<del></del>			FSIP	***************************************	•		
18/4l		Dain		7	25 C	Roads	Good					
Weather		Rain		Temp.			G000	<del></del>				
Remarks: Sai	mple, C	ore Desc, To	ps, Tests, Logs, El	evations, Casing, (	Cementing, So	lias Control	<u> </u>	Deiti	String Sequ	10000		
00.00 11		Datala mai	v O ava tima II	nartland same	ot in 125 lite	oo watar						
08:00 Hrs.			x 9 sxs type H				20:	Tool	Size	Length		
40.00 11			ld: 0.49m3, de from 1390 mKI					N/T Dod	70mm	75		
10:00 Hrs.						at 1215 min	\B.	N/T Rod		1		
12:00 Hrs.			h to observe 2			<u> </u>		X/O	90mm			
18:00 Hrs.			cement, 6 hours				i	H/T Rod	90mm			
			x 9 sxs type H				200	K/Up	90mm	1.83		
40.00.11			ld: 0.49m3, de				20.					
19:00 Hrs.	***************************************		from 1215 mKI						·			
21:00 Hrs.			h to observe c		ger water to	surface.				ļ		
			cement for 8 ho									
05:00 Hrs.			ent top at 1115	mKB, backwa	sh scaveng	er water						
07:00 Hrs.		_to surfac			.,							
08:00 Hrs.		POOH, la	ay down premit	um thread H/T	rod to 1100	mKB		Total Daniel	1100 0 0 4 1			
- ·	4	4			D	D	D D -	Total Depth				
Daily Cos	τ:	\$9,335.	.00 <b>Cum</b>	.: \$832,923.00	Reported	Dy:	Kon Kan(	ger String Wt.	12500	DAN		



#### WELLCO DAILY DRILLING REPORT

WELL NAME:		Delpet Vinland Big Spring # 1								
Date			97-08-17			<b>Day No.</b> 84				
Depth (080	00 hrs	)				24 Hr. Pro	ogress	0		
Activity at	Repo	rt Time	Plug and al	oandon						
Rig & Rig	No.		East Coast	#2	Grd. Elev.	40.30m				
					-			K.B. Elev.	44.5mKB	
	I	Orilling Flu	iid		Bit Data		Time Analys	is		
Р	roperti	es	Additives	Number			1			Hours
WT				Size				Connections		
VIS				Type			<u> </u>	Trips		9.50
WL				Serial No.			4	Deviation Su	rvey	
CAKE				Jets		,	5	Rig Service		0.50
pН				Out At			6	Circ. & Cond	. Mud	2.00
GELS				Hours			7	Repair Rig		
SOLIDS				M/HR			8	Run Casing &	& Cmtg.	4.00
PV				Cum. M			9	BOP Handlin	g & Tstg.	
YP				Cum. Hrs.			10	Logging		
% OIL				Cond. T/B/G				Coring	***************************************	
% SAND				WT. on Bit			12	Formation Ts	stg.	
CL				RPM			13	Fishing		
<del></del>	<u> </u>	Deviation	S	Stroke				W.O.C.		8.00
Depth	Deg.	Depth	Degree	Liner				RIG UP		
	1	1		I/m			Other	Total Hours		24.00
·				Ann Vel				woc		
	1			Surf. Press.	<b>†</b>					
DST No.			Formation				То	Total Hours		24.00
ISI			FF F	FSI	-	Press.	 : IHP		Times: IF	
PF			IFP	— FFP	**************************************	- ISIP			- FHP	
BHT		.,	Choke	Results			* * * * * * * * * * * * * * * * * * * *	FSIP	•	•
		· · · · · · · · · · · · · · · · · · ·		·····				-		<del></del>
***************************************										
Weather		Rain		Temp.	17 C	Roads	Good			
Remarks: Sa	mple, C	ore Desc. Top	os, Tests, Logs, I	Elevations, Casing,	Cementing, Sc	lids Control				
								Drill	String Sec	quence
08:00 Hrs.		POOH, la	v down 261 H	H/T premium thr	ead drill rod	l, 59 joints.		Tool	Size	Length
				V/T rod missing						
14:30 Hrs.		Inform Ca	lgary office o	of lost pipe, com	plete aband	onment.			1	
18:00 Hrs.		RIH 39 st	ands, lay dov	vn 96 joints H/T	rod.					
				ortland type H C		135 LITRES	S H2O.			
***************************************				: 0.49m3, dens					<u> </u>	
				3 to 330 mKB, F			ORANIA WALLEY WOLLDON THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABLE TO AND THE TAXABL			
21:00 Hrs.				scavenger slurry					<u> </u>	
05:00 Hrs.				rs. Pressure tes		7000 kpa. c	ood test.			
		~~~		mKB. Inhibit c						
08:00 Hrs.				ady to install cer		0 0.0101. (1	, , , , , , , , , , , , , , , , , , , ,		1	<del>                                     </del>
30.00 1110.				nd type H ceme		ers water.	***************************************	<del>                                     </del>	1	<u> </u>
*				0.49 m3, densi				<del></del>		1
			rom 15 mKB		.,. 1000 110	,		Total Depth	<del>                                     </del>	mKB
<del></del>				heavily into slip	s due to dri	ller error in	handling	String Wt.	-	daN
				s uneconomical					1.	Gait
Daily Cos	4.	\$8,385.0		n.: \$841,308.00			Ron Range		• •	
July 003		ψο,σσσ.	,, Jui	\$577,000.00	poou	~ <b>J</b> .		-	46	

#### WELLCO DAILY DRILLING REPORT

WELL NAME:			ınd Big Sprinç							
Date			97-08-18	***************************************		ay No. 85				
Depth (080			6.3mKB			24 Hr. Pro	gress	0		
Activity at		rt Time	Rig out and i							
Rig & Rig	No.		East Coast #	<sup>‡</sup> 2	Grd. Elev.	40.30m				
								K.B. Elev.	44.5mKB	
		Drilling Flu			Bit Data		Time Analys	is		
	roperti	es	Additives	Number			1			Hours
WT				Size				Connections		
VIS				Туре				Trips		
WL				Serial No.				Deviation Sur	vey	
CAKE				Jets			1	Rig Service		
pН				Out At			6	Circ. & Cond.	Mud	
GELS				Hours			7	Repair Rig		
SOLIDS				M/HR			8	Run Casing 8	& Cmtg.	
PV				Cum. M			9	BOP Handlin	g & Tstg.	
YP			<u> </u>	Cum. Hrs.			10	Logging		<u> </u>
% OIL		·····		Cond. T/B/G				Coring		
% SAND				WT. on Bit	<u> </u>			Formation Ts	tg.	
CL	<u> </u>			RPM				Fishing		
****	<u></u>	Deviation	ıs	Stroke				W.O.C.		8.00
Depth	Deg.	Depth	Degree	Liner				RIG OUT		16.00
	13.	1		I/m			Other	Total Hours		24.00
***************************************				Ann Vel				woc		1
	<b>-</b>			Surf. Press.						<u> </u>
DST No.	1	<u> </u>	Formation	100111 1 10001			To			<b>-</b>
ISI			FF	FSI	<del></del>	Press.		L	Times: IF	
PF			ifP	- FFP		- ISIP			FHP	***************************************
BHT			Choke	- Results				FSIP	. ''"	
DITT										-
	*····								······································	
Weather		Rain		Temp.	17 C	Roads	Good			
	mplo. C		ps, Tests, Logs, El				<u> </u>			
Nemarks. Sa	ripie, C	JIE Desc, TO	ps, resis, Logs, Li	evalions, Casing,	Cementing, oc	nida Control		Drill	String Seq	Hanca
08:00 HRS		Wait on o	ement 8 hours	hard coment	at curface		<u></u>	Tool	Size	Length
00.00 1110	,		7mm & 114.3m					1001	OIZE	Lengui
			steel plate mar		III Delow GL	-1				<del> </del>
08:00 HRS			elease rig. 97-		0 bre					<u> </u>
00.00 HK3	)		s released.		U IIIS.					
		All Tentals	s releaseu.						ļ	<del> </del>
			<u></u>							
										<del> </del>
										<del> </del>
										ļ
				·						
								Total Depth		mKB
Daily Cos	t:	\$5,855.	00 Cum	.: \$847,163.00	Reported	By:	Ron Rangei	String Wt.		daN
									11	

#### WELLCO DAILY DRILLING REPORT

WELL NA	ME:			and Big Spring	# 1					
Date			97-08-19		***************************************	_	Day No. 86			_
Depth (08			6.3 mKB			_24 Hr. Pro	ogress	0		
Activity at	-	rt Time	Rig out and				·	· · · · · · · · · · · · · · · · · · ·		
Rig & Rig	No.		East Coast [	Urilling #2	Grd. Elev.	40.30m		// D. E:	445.105	·
***************************************		<b></b>	* 1	<del></del>	D'1 D 1		T <del>T</del>	K.B. Elev.	44.5mKB	***************************************
		Drilling Fl		N	Bit Data	T #45	Time Analys	is .		1
	roperti	es	Additives	Number	# 16	#15	1	Camaatiana		Hours
WT				Size				Connections		ļ
VIS				Type		ļ		Trips	***************************************	
WL	ļ			Serial No.				Deviation Su	ırvey	<u> </u>
CAKE	ļ			Jets				Rig Service	1 1 1 1	
pH	ļ			Out At		ļ		Circ. & Cond	ı. Mua	<del> </del>
GELS	ļ			Hours		<u> </u>		Repair Rig	0.0	ļ
SOLIDS	<b>.</b>			M/HR				Run Casing		
PV				Cum. M				BOP Handlin	ng & Tstg.	<u> </u>
YP		<u></u>		Cum. Hrs.				Logging		
% OIL				Cond. T/B/G				Coring		
% SAND				WT. on Bit				Formation T	stg.	ļ. <u>.</u>
CL		·········		RPM				Fishing		
		Deviation		Stroke			14	W.O.C.		8.00
Depth	Deg.	Depth	Degree	Liner				Rig Out		16.00
				I/m			Other	Total Hours		24.00
				Ann Vel				woc		
				Surf. Press.						
DST No.			Formation		_		To			
ISI			FF	FSI		_ Press.	.: IHP		_Times: IF	
PF			IFP	FFP		ISIP			_ FHP	
BHT			Choke	_ Results				FSIP	*	<del></del>
Weather		Rain		Temp.	17 C	Roads	Good			
Remarks: Sa	mple, C	ore Desc, To	ops, Tests, Logs, E	levations, Casing, 0	Cementing, So	lids Control				
								Drill	String Sec	uence
			d drilling mud pi	roducts.				Tool	Size	Length
Crown We			ents.							
Casing an										
			dena, Jamie Me							
Remanind	ler of n	naterial to	be stored in Ed	ddys yard, Step	henville, 70	9-643-5040	0.			
		***								
***************************************								Total Depth		mKE
Daily Cos	.+.	\$3,500	0.00 <b>Cum</b>	• \$850 663 OC	Reported	Bv:	Ron Range			daN
Daily COS	, .	φ3,300	,.oo Guii	ψοσο,σοσ.σο	portou	<b>~</b> ₃.		129 11	····	



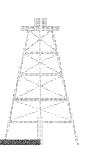
# DELPET - VINLAND COMPANY BIG SPRING # 1 Western Newfoundland

**Geological Well Report** 

Prepared by:
Roland Strickland
Wellsite Geologist
Stride Consulting Ltd.

Prepared for:
EARL LEWIS / KEN ZIPSE
Delpet – Vinland / Welco





#### **CONTENTS**

Synopsis	i
Formation Tops	iii
Executive Summary	iv
Lithology(Petit Jardin Formation to March Point Formation)	1
Diamond Drill Penetration Record & Bit Data	91

#### **APPENDIX A**

Biostratigraphic Reports of the Diamond Drill Core from 692m to 1393m

#### **APPENDIX B**

Geological Well Log

#### **SYNOPSIS**

OPERATOR:

**DELPET - VINLAND COMPANY** 

WELL NAME:

BIG SPRING#1

LOCATION:

WESTERN NEWFOUNDLAND

FIELD:

**EXPLORATION** 

PROVINCE:

**NEWFOUNDLAND** 

**ELEVATIONS:** 

G. L. 40.3m

K. B. 44.5m

LOCATION

(NAD 27) N 5664039

E 572158

SPUD DATE:

MAY 25, 1997

T. D. DATE

August 13, 1997

FORMATION AT TD.

Marche Point (equivalent)

STATUS

Plug and Abandoned on August 15, 1997

CONTRACTOR:

EAST COAST DRILLING CO. (Colin Crane)

WELL TYPE:

Slim - Hole Continuous Coring Borehole

RIG

HS 150, ECD Rig # 2

HOLE SIZE:

0m To 150m 127 mm with PW casing

0m To 352m 99mm 352m To 1312m 96mm 1312m To 1397m 76mm

MUDLOGGING COMPANY:

Dresser

MUD COMPANY:

Delpet

MUD TYPE:

WATER with Poly - Safe TO TD.

WIRELINE LOGGING CO.:

Western Atlas

LOG RECORD:

Run #1

Aug.13 to 14, 1997

GAMMA RAY

Compensated NEUTRON - GAMMA RAY BHC ACOUSTILOG GAMMA RAY

DRILLING SUPERVISION:

Ron Ranger (WELLCO)

GEOLOGICAL SUPERVISION:

Roland Strickland

TOTAL DEPTH

1397m

LOG 7	TOPS D	Come Days But Joseph Days	- VINLA	ND B	IG SPR	ING #	1
FORMAT	ION	THICK -	LOG				
		NESS	TOPS				<u> 4</u>
							4
			meters				
		meters					
of heavile into a to the		272.1					
<u>'EIII JA</u> r	(DIN(SPUD)	2/2.1					
MARCH PO	TINIT	1121.15	272.1 D. T.				
419-21-2-2-1 1 c	21191	1 (25 1.10	Man I Bank I May C T x				***************************************
						ay and an action for the first of the first	
TOTAL	)EPTH						
	= 1393.35	N				***************************************	
name or to be Major House Boose	the sides and the same and the same						
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		***************************************					-
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rempeutendour ablängstet voleden serak mit holde			***************************************	1		***************************************	
	<u> </u>						
							1

#### **EXECUTIVE SUMMARY**

#### DELPET - VINLAND BIG SPRINGS # 1

DELPET – VINLAND BIG SPRING # 1WAS SPUDDED ON MAY 25, 1997 AND DRILLED TO A TOTAL DEPTH OF 1397 M ON AUGUST 13, 1997. (80 days)

THE WELL WAS SPUDDED IN THE PETIT JARDIN DOLOSTONE AND DRILLED TO 272.1M.

THE MARCH POINT WAS FROM 272.1M to 1397M. THIS WAS AN IMBRICATE THRUST STACK, CONSISTING OF MASSIVE OOLITIC LIMESTONE, WITH PARTED AND RIBBON LIMESTONES INTERBEDDED WITH DARK GREY SUBFISSILE SHALE.

THE MAIN PROSPECTIVE ZONES WERE THE ORDOVICIAN CARBONATE PLATFORM OF THE TABLE HEAD AND ST. GEORGES GROUPS

THE ONLY HYDROCARBONS ENCOUNTERED IN THIS WELL WAS AT 1184 M (284UNITS). THE REMAINING WELL HAD HYDROCARBON UNITS LESS THAN 100 UNITS.

NO POROSITY ZONES WERE ENCOUNTERED IN THESE DRILLING DEPTHS.

THIS WELL WAS PLUGGED AND ABANDONED ON AUGUST 15, 1997 AT A T. D. OF 1397 M.

**Lithology** 

SHEET # 1
Date: June 8/97

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158 Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: 1396.82m Core size: HQ

Hole No: BIG SPRING # 1

Spud date: May 25, 1997 Completed: Aug. 13, 1997

Logged by: Jamie Meyer / Roland Strickland

Depth		Lithology Description	Fracture / Alteration	Remarks
		Petit Jardin Formation		
0.00 - 3.32m	Box 1	Dolomitic-Limestone: initially broken pieces, grading into medium grey	- highly fractured, many sets of calcite veins.	bedding varies from 0* - 15*
6.70 - 7.84	Box 2	dolomitic-limestone.	venis.	(from horizontal)
	2	Dolomitic-limestone with sub-vertical (1-2cm) wide	- high angle fracture	,
		quartz vein.		well cemented, very low porosity
7.84 - 10.0		Dolostone: horizontally, laminated dolostone, medium		, very real persons
		grey with irregular light grey 1-3mm laminae - grading into mottled light to medium grey.		
10.0 - 11.0	Box 3	Dolostone: medium, broken and yellow stained dolostone. some breccia textures, some		
11.0 - 21.4	-	stromatolite banding.		yellow brown staining on some
	Box 4	light and dark grey banded, laminated, mottled, brecciated stromatolite zones,	enga en en en en en en en en en en en en en	fractures.
		distinct orange/white dolomite/calcite spar		
	Box 5	light grey to white medium crystalline, calcite infilling fractures irregular, discontinuous, black		
		chert laminae, cavity lining.		

SHEET # 2 Date: June 8/97

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation:30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_Core size: HO

Hole No:BIG SPRING #1

Spud date: May 25, 1997 Completed:

Depth		Lithology Description	Fracture / Alteration	Remarks
21.4-32.7m	Box 6	Dolostone: light, medium and dark grey dolostone. breccia dominates light grey matrix, more calcitic. some white sparry infilling. dark grey to black chert.		core well cemented low porosity.
	Box 7	laminae appears to line many cavities and coat some fragments. laminated, rounded fragments 2-10cm, stromatolites??		
	Box 8	some less disrupted zones display sub-horizontal bedding minor pyrite.		
	Box 9 10	mildly calcareous		
32.7 - 45.0m	Box 11 Box 12 13	Dolostone: breccia features and stromatolitic patterns are present, but less common light to medium grey dolostone, slightly calcareous	high angle fractures and yellow/brown staining@32.9,35.3 41.6, and 43.6m	bedding at 36.1 is 30* from horizontal.

SHEET # 3
Date: June 8/97

Location(NTS.): 2M/4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: Core size:HQ

Hole No: BIG SPRING #1

Spud date: May 25, 1997 Completed:

p	<u> </u>		<u> </u>	
Depth		Lithology Description	Fracture / Alteration	Remarks
45.0 - 52.m	Box 14	Dolostone: light to medium grey, mottled, dolostone. minor sparry calcite and pyrite few stromatolites.		@ 51.3 bedding is 25* (from horizontal)
	Box 15	bedding, fragments of laminated dolostone		·
52.0 - 53.4m	Box 15	Dolostone: light grey, mottled dolostone	extreme high angle to vertical fracturing - yellow staining - calcite on fractures	·
53.4 - 58.7m	Box 16	Dolostone: medium grey, variably mottled. 25-60cm zones of massive dolostone with 2-5mm calcite filled vugs, separated by 10-50cm zones of disrupted bedding/brecciaall well cemented, - medium calcite zones.		
58.7 - 61.1	Box 17	Dolostone: medium to massive stromatolitic dolostone.	high angle to vertical calcite filled fractures some yellow/brown staining.	50% very broken core along calcite fractures.

SHEET # 4
Date: June 10/97

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation:30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: Core size: HQ

Hole No: BIG SPRING #1

Spud date: May 25, 1997 Completed:

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Depth		Lithology Description	Fracture / Alteration	Remarks
61.1 - 68.3 m	Box 18 Box 19	Dolostone: greenish grey, laminated to stromatolitic dolostone, grading into light and medium grey dolostone (slightly calcitic). medium grey dolostone is massive lightly mottled, and has 2-20cm zones of light grey dolomite, with very even texture, but containing angular fragments of medium grey dolomite.		bedding @ 61.6 is 20* to horizontal very broken core.
68.3 - 72.3m	Box 20 21	Dolostone: medium grey mottled dolostone, with 10-25 cm zones of dark grey, pyritiferous, argillaceous dolostone.	high angle broken fracture@ 62.0m, calcite along fractures	bedding @ 71.3 is 15* to horizontal
72.3 - 82.25	Box 22 Box 23 Box 24	Dolostone: sequence going from dark grey, argillaceous dolostone to medium grey mottled dolostone, with vertical, irregular calcite filled vuggy zones, to medium grey pseudobreccias; to light grey stromatolitic zones, broken up with abundant sparry calcite infilling, to light & medium grey mottled dolostone, and back to dark grey, very argillaceous dolostone.	high angle, yellow brown stained, calcite filled fractures @ 77.5 & 77.7; no staining, but broken at 79m.	continues to be very well cemented with no porosity.  dark grey argillaceous dolomite has perfect horizontal break.

SHEET # 5
Date: June 11/97

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_ Core size: HQ

Hole No:BIG SPRING #1

Spud date: May 25, 1997 Completed:

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Depth		Lithology Description	Fracture / Alteration	Remarks
82.25 - 85.25m	Box 24	Dolostone: light grey, mottled dolostone with yellow-brown stained calcite lined fractures.		core moderately to extremely broken.
85.25 - 88.0m	Box 25	Dolostone: mottled, medium grey dolostone, grading into dark grey argillaceous dolostone (two sequences)		bedding in dolomitic shale is 20* to horizontal @87.7m
88.0 - 95.9m	Box 26 Box 27	vugs & vuggy fractures, small scale breccias, occasional	high angle, calcite lined fractures, broken core @ 88.9, 91.3, 93.2, 94.2m.	badly broken core @ 90.0m
95.9 - 97.7m	Box 28	Dolostone: light grey mottled dolostone, with yellow stained calcite-lined fractures.		broken core through most of this interval.
97.7 - 103.95m	Box 29	Dolostone: medium grey dolostone moderately to slightly calcareous, mottled to brecciated on a small scale. 50cm zones of laminated to banded dolostone with 1-3mm green-grey laminae. burrows, soft sedimentary deformation and stromatolites	high angle fractures and broken core @ 100.7, 101.1 & 101.6m.	bedding@1004m is 15*-20* to horizontal.

SHEET # 6
Date: June 12/97

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: Core size: HQ

Hole No:BIG SPRING #1

Spud date: May 25, 1997 Completed:

Depth		Lithology Description	Fracture / Alteration	Remarks
103.85 - 119.04m	Box 30 31 32 33 34	Dolostone: medium grey dolostone, mottled, banded, and at times brecciated.  2mm to 2cm wide vuggy zones up to 10cm long, filled with sparry calcite.	high angle, calcite filled fractures, broken core @ 110.2. 113.6, & 117.6m.	dolostone continues to be well cemented. very low porosity.
119.04 - 123.2m	Box 35  Box 36	Dolostone: light to medium grey mottled dolostone, pseudobreccias, and zones of calcite - filled vugs.	abundant moderate to high angle calcite- lined fractures, yellow stained and badly broken core through half of this interval. staining permeates up to 2cm in some zones.	
123.2-130.2m	Box 36 37	Dolostone: light grey, variably mottled dolostone. two zones, 1m each, of yellow grey dolostone, appearing "bleached", accompanying yellow stained fracture.		bedding varies from 5*-15*
130.2 - 133.99m	Box 38	Dolostone: light to medium grey dolostone, and dark grey dolomitic shale(55cm) irregular patches of dark grey shale in dolostone, calcite filled vugs, worm burrows	high angle fractures, partially open at 131 m	bedding in shale is 20*-30* to horizontal

SHEET # <u>7</u>

Date: <u>June 12/97</u>

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: Core size: HQ

Hole No:BIG SPRING #1

Spud date: May 25, 1997 Completed: Logged by: Jamie Meyer

Donth		Tid-1	T	D 1
Depth 133.99 - 141.3m	Box 39 40	Dolostone: initial 3cm, yellow-brown, highly weathered dolostone, indulating bedding plane, with contact ~15* to horizontal. light to medium grey dolostone calcite filled vugs & burrows	high angle fractures with yellow brown staining, particularly in light grey zones. core moderately to badly broken @ 135.85, 137, 139m	Remarks bedding averages ~15* to horizontal
141.3 - 147.0m	Box 41 Box 42	Dolostone: medium to medium dark dolostone-initially with dark grey argillaceous patches, very irregular patterns, grading down into even textured arenaceous to argillaceous dolostone.  middle section is medium grey, mottled, small, 1-3mm calcite patches, which grades down into darker grey dolostone.	high angle, yellow brown stained fractures, broken core @ 144.2, & 145.6m	
147.0 - 153.29m	Box 43	Dolostone: light to medium dark grey dolostone, irregular shaped vugs and fractures filled with white calcite. dark grey argillaceous dolomite / dolomitic shale, often with abundant pyrite these infillings are up to 7-8cm wide, with breccia textures. interval ends in medium grey dolostone, slightly calcareous 1-3mm calcite filled vugs.	high angle fractures at 149.7-150.2m and at 152.9m (yellow stained)	bedding at end of interval is 10*-15* to horizontal.

SHEET # 8
Date: June 23/97

Location(NTS.): 2M/4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: Core size: HQ

Hole No:BIG SPRING #1

Spud date: May 25, 1997 Completed:

Logged by: Jamie Meyer

Depth		Lithology Description	Fracture / Alteration	Remarks
149.76-156.1m	Box 44-B	NOTE: Box 44-B, is lateral equivalent of Box 44, as a result of "sidetracking" Dolostone: medium grey, finely crystalline dolostone with 1-5mm wide shale inter-laminae 2-30cm spacing. grades in & out of medium crystalline, light-medium grey, mottled dolostone, minor calcite filled vugs and veins.		shale laminae are wavy, but average 5* - 15* from horizontal. very low porosity
156.1 - 159.8m	Box 45  Box 46	Dolostone: light to medium grey dolostone, calcitic at times, initially very disrupted to brecciated. at bottom, extremely fractured and recemented with calcite veins.		
159.8 - 166.63m	Box 47  Box 48	Dolostone: light grey dolostone with lesser medium grey, slightly to moderately calcitic, stylolitic to horizontally laminated in sections. dark grey burrow-like feature near top calcite filled vugs.	very thin, irregular, calcite lined fractures	bedding generally 0*-5* from horizontal

SHEET # 9
Date: June 23/97

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: Core size:HQ

Hole No: BIG SPRING #1

Spud date: May 25, 1997 Completed:

Logged by: Jamie Meyer

Depth		Lithology Description	Fracture / Alteration	Remarks
166.63 - 171.3m	Box 49	Dolostone: light grey dolostone, mottled to lightly banded	hairline fractures, yellow and white core still competent.	maytex on core.
171.3 - 172.5m	Box 50	Dolostone: light grey dolostone, faintly banded at least 40cm of light yellow, to bleached grey, crushed dolostone calcite veining common.	moderate to extreme fracturing and crushing of core yellow/brown staining on fractures.	core meterage straightened up in this zone to reflect markers in box.
172.5 - 178.18m	Box 51 Box 52	grey dolostone discontinuous bands of calcite,	moderate to strong fracturing, often yellow stained, calcite lined very steep angles, at times vertical.	
178.18 - 185.35m	Box 53  Box 54	dolostone: light-medium grey dolostone, finely laminated to mottled.  some small scale brecciation in 3cm thick bands	high angle fracturing 75* to vertical, and broken core @ 179.1, 183.15, & 184.15 yellow-brown stained, calcite lined.	bedding 0*-5* from horizontal

SHEET # 10 Date: June 24/97

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: Core size: HQ

Hole No:BIG SPRING # 1

Spud date: May 25, 1997 Completed:

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Depth		Lithology Description	Fracture / Alteration	Remarks
185.35 - 186.5m	Box 55	Dolostone: medium grey to almost black dolostone the blackest interval is strongly calcareous and has strong H2S smell when broken, fine crystalline almost shaly on some breaks, but core still massive abundant 1-3mm, white calcite patches near base.		
186.5 - 192.1m	Box 56	Dolostone: medium grey dolostone with 2-8mm wide, green grey shale laminae, spaced 15-90cm shale laminae are often very thin and stylolitic in appearance shale laminae, minor pyrite dolostone is generally fine crystalline, planar laminated to thin wavy bands	core moderately to heavy fractured and broken @ 187,188, 189.3 yellow-brown calcite lined fracture @ 191.1	shale laminae vary from 0* to 30* from horizontal
192.1 - 198.0m	Box 57  Box 58	laminated to banded, fine to medium crystalline dolostone stylolitic	white, hairline fractures through 50% of interval calcite veins rarely up to 1cm wide, with rock fragments	bedding most commonly 0*-5*, but up to 15* from horizontal.
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SHEET # 11
Date: June 24/97

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_Core size: HQ

Hole No:BIG SPRING #1

Spud date: May 25, 1997 Completed:

Logged by: <u>Jamie Meyer</u>

Depth	Lithology Description	Fracture / Alteration	Remarks
198.0 - 209.2m	Box dolostone: medium grey dolostone, quite massive, laminated and stylolitic(every 5-10cm)  Box rose, undulating, green grey shale laminae (1-3mm) in upper portion only generally finely crystalline laminated appearance less obvious near base	white, 1-8mm wide calcite veins, 70* to vertical, increasing in frequency towards bottom hairline calcite veins also increasing towards bottom	bedding varies from near horizontal to 20* very low porosity
209.2-214.14m	Box duickly changing to dark grey uniform textures quickly changing to strongly medium to very dark mottled increasing frequency of stylolites with depth abundant white calcite-filled vugs and veins burrow textures common much more calcareous with increasing depth several undulating shale laminae.	210.0, 211.5	bedding harder to see, but in 5*-15* range in shale laminae

SHEET # <u>12</u>
Date: <u>June 24/97</u>

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation:30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_ Core size: HQ

Hole No: BIG SPRING # 1

Spud date: May 25, 1997 Completed:

Depth		Lithology Description	Fracture / Alteration	Remarks
214.14-231.8m	Box 64 65 66 67 68	Dolostone: medium to dark grey almost black at times moderately to highly calcareous variably mottled, burrowed and occasionally breccia textures stylolites in medium grey intervals argillaceous in black intervals well cemented, white calcite veins veins 75* to vertical, typically pinching out 1-5mm white calcite, filled vugs sporadic through the interval		bedding generally sub-horizontal only moderate H2S smell on fresh breaks very low porosity
231.8m - 241.12m	Box 69 70 71 72	Dolostone: medium to dark grey dolostone, slightly calcareous 1-4cm bands of graded, oolitic dolomite wavy bedding planes (at times very massive, no visible bedding)	calcite veining at high angles, to vertical extreme fracturing of core @ 232.7,237, 238.5, 239.5 (50-100cm intervals)	bedding varies from o*-15* (from horizontal)
241.12 - 242.47m		Dolostone: medium grey dolostone, slightly calcareous abundant, vertically elongated calcite filled vugs	1mm wide, vertical calcite veins, < 1mm, hairline calcite veins @ 70* to horizontal	

SHEET # <u>13</u>
Date: <u>June 24/97</u>

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: Core size: HQ

Hole No:BIG SPRING #1

Spud date: May 25, 1997 Completed:

Depth		Lithology Description	Fracture / Alteration	Remarks
242.47 - 247.21m	Box 73  Box 74	Dolostone: light grey dolostone with 1-4mm, dark wavy, discontinuous laminae,(closely spaced) grading into dark grey dolostone, with 2-15mm, very dark bands (argillaceous)	erratic calcite veining intense fracturing and yellow-brown stained fracture planes calcareous @ 243.9 & 244.7 (20 to 50cm intervals)	bedding varies from 0* to 10* from horizontal
247.21 - 256.04m		Dolostone: dark grey, massive to faintly banded, oolitic dolostone 2-4cm argillaceous bands at top of interval	yellow-brown stained calcite coated fractures @ 249.2, 250.0, 250.5, (30-40cm intervals of broken core) much of this interval is broken along 1mm calcite veins @ 255m slickensides @ 250.7	
256.04 - 272.10m	Box 77 78 79 80 81	Dolostone: medium to very dark grey oolitic dolostone, slightly to moderately calcareous faint to moderate, light colored bands & lenses 1-5cm wide, due to white calcite cement darker bands more argillaceous.	extensive vertical fracturing 257 to 259.5, yellow-brown stained calcite from 260 to 263 strong/extensive vertical fracturing associated with vuggy calcite veins, very hackly, crystal lined fractures, breaks @ 60* to horizontal	slight vuggy porosity bedding is 0*-10* from horizontal

SHEET # 14 Date: June 25-26/97

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_ Core size: HQ

Hole No:BIG SPRING #1

Spud date: May 25, 1997 Completed:

Logged by: Jamie Meyer / Roland Strickland

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Depth		Lithology Description	Fracture / Alteration	Remarks
256.04 - 272.10m			again from 271.75 to	
· 1	Box 82		272.75 2-10mm wide, white calcite veins common	
	) <b></b>		in bottom meter	
272.10 - 279.17m	Box 82	MARCH POINT FM. Limestone: dark grey to very	e e e e e e e e e e e e e e e e e e e	very low porosity
	83	dark grey oolitic limestone subtle banding, highlighted by		virtually no H <sub>2</sub> S smell on fresh
· .	-	presence or absence of white calcite cement		breaks
		possible slump features at 273.1m		bedding generally sub-horizontal
		increasing with depth are almost black, mottled zones, and 1-3cm	i i	
		bands with breccia textures minor calcite filled vugs and		
	84	Imm veins several very irregular black shale seams (1-2mm)		
279.17 - 284.29m		Limestone: very dark grey, with lesser medium grey, limestone		very low porosity
	Box 85	very dark grey mottled textures dominate, at times fragmental		very faint H <sub>2</sub> S smell on fresh
		2-10cm intervals with white calcite cement, 0.5-2cm	,	break
	86	rounded clasts, minor oolites 15-25% of interval is oolitic limestone		bedding still sub-horizontal
		minor calcite filled vugs and veins.		

SHEET # 15
Date: June 26/97

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158 Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: Core size: HQ

Hole No:BIG SPRING #1

Spud date: May 25, 1997 Completed:

Logged by: Jamie Meyer / Roland Strickland

75.1			T / A 1.	D 1
Depth 284.29 - 290.43m	Box 87	Lithology Description  Limestone: mottled dark and medium grey limestone, speckled with 1-5mm calcite filled vugs pseudobreccia textures with very dark micritic matrix stylolitic to shaly seams, very irregular 1-5cm bands of oolitic limestone, and small intraformational breccias	Fracture / Alteration very little fracturing or veining	Remarks very low porosity only faint H2S smell on fresh break relatively horizontal bedding
290.43 - 295.11m	Box 88	Limestone: medium to dark grey limestone oolitic, going into intraformational breccia, (with clasts up to 4cm) and back to mixed oolitic and mottled limestone with abundant calcite filled vugs irregular shale seams and stylolites.		very low porosity relatively horizontal bedding
295.11 - 301.10m	Box 90	Limestone: medium to dark grey oolitic limestone graded beds, 1.0mm to silt, over 1 to 2cm coarse oolites typically cemented with white calcite cross bedded, silt laminations	minor discontinuous, white calcite veins, near vertical.	very low porosity very faint H2S smell generally sub- horizontal bedding.

SHEET # <u>16</u>
Date: <u>June 26/97</u>

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation:30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: Core size: HQ

Hole No:BIG SPRING #1

Spud date: May 25, 1997 Completed:

Logged by: Jamie Meyer / Roland Strickland

Depth		Lithology Description	Fracture / Alteration	Remarks
295.11 - 301.10m	Box 91	Limestone: curved and discontinuous occasional rip-up clasts		
301.10 - 312.47m	Box 91 92 93	Limestone: interbedded oolitic limestone, medium to very dark grey banded limestone, and limestone with stylolitic to pseudobreccia textures over 75% massive oolitic limestone with white calcite cement and minor silty laminae approximately 15% medium grey stylolitic & pseudobrecciated limestone, with very irregular bedding at times near vertical approximately 10% medium grey, fine grained limestone grading up into dark grey micrite.	minor calcite veining < 1mm to 3mm wide 75* to vertical occasional breaks in core along veins.	1

SHEET # <u>17</u>
Date: <u>June 27/97</u>

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: Core size: HQ

Hole No:BIG SPRING #1

Spud date: May 25, 1997 Completed:

Depth	**************************************	Lithology Description	Fracture / Alteration	Remarks
312,47 - 326.75m		Limestone: medium grey with very dark grey bands of limestone, weakly stylolitic to pseudobreccia textures, graded bedding throughout. No visible porosity, no shows.	- occasional calcite veining at high angles to vertical	bedding varies from 0* - 15* (from horizontal)
	Box 95	<ul> <li>frequent soft deformational textures.</li> </ul>		
	Box 96  Box 97  Box 98	<ul> <li>- 25% massive oolitic limestone, calcite cemented</li> <li>- abundant very dark bands of limestone 1-3 cm wide, with shale partings sub-parallel to bedding.</li> <li>- abundant very dark bands of limestone.</li> <li>- frequent well developed</li> </ul>		
326.75 to 331.03m	Box 99 100	Limestone: medium grey, microcrystalline, massive, oolitic, with minor siltstone/ limestone interbands. NVP, No shows.		generally sub- horizontal bedding

SHEET # <u>18</u>
Date: <u>June 27/97</u>

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_Core size: HQ

Hole No: BIG SPRING #1

Spud date: May 25, 1997 Completed:

Depth		Lithology Description	Fracture / Alteration	Remarks
331.03 - 337.60m	Box 101 Box 102	Limestone: medium grey with abundant very dark grey partings (1-4 mm wide) and dipping 15* to 20* from horizontal. NVP, No shows.  Abundant stylolites with shale partings.  Very dark grey banding sub-parallel to bedding.	- calcite bands (5-10mm wide) sub-parallel to bedding.	bedding varies from 0* - 15* (from horizontal)
337.60 - 340.36m	Box 103	Limestone: medium to dark grey, massive oolitic limestone with minor shale partings, weakly stylolitic.  NVP, No shows.	- occasional calcite veining 75* to vertical.	

SHEET # <u>19</u>
Date: <u>June 28/97</u>

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation:30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_Core size: HQ

Hole No: BIG SPRING # 1

Spud date: May 25, 1997 Completed:

Depth		Lithology Description	Fracture / Alteration	Remarks
340.36 - 347.27.m	Box 104	Limestone: medium grey, with abundant very dark grey bands of ribbon micritic limestone, generally sub-parallel to 15* with bedding. NVP, No shows.  abundant very dark ribbons limestone bands (5-10mm wide) with 5*-20* dip from horizontal, soft deformation textures common, occasional rip-up clasts.  abundant very dark ribbon limestone bands similar to	minor calcite veining 3-5mm wide, 80* to vertical.	bedding varies from 0* to 10* from horizontal.
	105	box 104, slightly argillaceous.		:
347.27 - 351.43	Box 105 Box 106	oolitic limestone, cemented with white calcite. well developed stylolitic textures with shale partings.	minor calcite veinlets, discontinuous, near vertical to sub-parallel.	

SHEET # 20 Date: June 28/97

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_Core size: HQ

Hole No:BIG SPRING #1

Spud date: May 25, 1997 Completed: Logged by: Roland Strickland

Depth		Lithology Description	Fracture / Alteration	Remarks
351.43 - 353.0.m	Box 106	Limestone: medium grey to very dark grey bands of micritic limestone. NVP, No shows.	extensive core break up from 351.8 to 353m (mechanical)	bedding sub-horizontal
	Box 107	Predominately very dark argillaceous limestone with an oolitic section from 352.21 - 352.98m		
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SHEET # <u>21</u>
Date: <u>July 10/97</u>

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation:30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: Core size: HQ

Hole No:BIG SPRING #1

Spud date: May 25, 1997 Completed:

Donth		Lith alson Description	Fracture / Alteration	Remarks
Depth 353.0 - 360.48m	Box 108	Lithology Description  Limestone: very dark grey, massive, micro-crystalline limestone, argillaceous, with frequent interbedded Shale, that is black, sub-fissile, moderately hard, abundant slickensided surfaces, minor flecks of pyrite throughout. NVP, no shows.	Abundant white calcite veining (2-10cm wide), from	Bedding from 0* to 25* from horizontal
360.48 - 367.24m	Box 110	Limestone: massive, dark grey, to grey, with bands of very dark micritic limestone, abundant soft deformational textures, occasional black shale partings, minor disseminated pyrite.  NVP, no shows.	Horizontal white calcite veining at 361.91m (5-10mm wide).	Bedding 0*-10* from horizontal.
367.24 - 371.42m	Box 112 113	Limestone: massive, crystalline, grey, oolitic limestone, cemented with white calcite. Well developed stylolitic textures with black shale partings, and disseminated fine grained pyrite. NVP, no shows.	Minor vertical calcite veinlets.	Bedding 0* - 10* from horizontal

SHEET # <u>22</u>
Date: <u>July 10/97</u>

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: Core size: HQ

Hole No:BIG SPRING #1

Spud date: May 25, 1997 Completed:

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Depth		Lithology Description	Fracture / Alteration	Remarks
371.42 - 375.47m	Box 113 114	Limestone: massive, grey, oolitic limestone, with bands of very dark grey, micritic, ribbon limestone, slightly argillaceous, with well developed stylolites in the oolitic limestone.	Abundant white horizontal calcite veining at 371.94 (2-10mm wide).	Bedding 0*-10* from horizontal
375.47 - 378.94m	Box 115	Limestone: massive, crystalline grey, oolitic to pisolitic limestone, well cemented with white calcite, well developed stylolitic textures with shale partings, minor disseminated pyrite. NVP, no shows.	Minor calcite veining.	Bedding 0* - 10* from horizontal.
378.94 - 380.87m	Box 115	Limestone: grey to dark grey, micritic, with wavy very dark grey, limestone bands, occasional speckled filled calcite vugs (1-2mm), well developed stylolites with shale partings. NVP, no shows.	Minor calcite veining parallel to bedding (0.5-1cm wide) at 379.36m.	

SHEET # <u>23</u> Date: <u>July 10/97</u>

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_Core size: HQ

Hole No:BIG SPRING #1

Spud date: May 25, 1997 Completed:

Depth		Lithology Description	Fracture / Alteration	Remarks
380.87 - 383.89m	1 1	Limestone: grey, massive, crystalline, oolitic limestone with alternating bands of very dark grey micritic limestone, slightly argillaceous, well developed stylolites with shale partings in massive limestone. Massive white brecciated calcite vein (0.33m wide) at 383.2m. NVP, no shows	Occasional white calcite veins 3-5mm wide at 20* to bedding.	Bedding 0* - 10* from horizontal.
383.89 - 389.73m	Box 117	Limestone: grey to dark grey massive, crystalline, oolitic limestone, very well cemented with white calcite, well developed stylolitic textures with shale partings throughout. NVP, no shows	Minor calcite veining.	

SHEET # <u>24</u> Date: <u>July 11/97</u>

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation:30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: Core size: HQ

Hole No: BIG SPRING #1

Spud date: May 25, 1997 Completed:

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Depth		Lithology Description	Fracture / Alteration	Remarks
389.73 - 399.81m	Box 119 120	Limestone: grey to dark grey, massive, crystalline, oolitic to pisolitic limestone, cemented with calcite, well developed stylolitic textures, with shale partings, occasional rip-up clasts, bioturbation, and abundant pisolites. Minor disseminated pyrite.  NVP, no shows.	Minor calcite veining vertical to horizontal.	
399.81 - 404.15m	Box 122 123	Shale: dark grey to black, sub- fissile to fissile, moderately hard, silty and micaceous, minor flecks of pyrite, interbedded with dark grey limestone, with well develpoed fine laminae, frequent slickensided surfaces, occasional mudstone, massive. NVP, no shows.	Minor calcite veining along shale-limestone contacts.	Bedding 10* - 30* from horizontal.
404.15 - 411.12m	Box 123	Limestone: 75% dark grey, micritic limestone, with well developed, fine laminae, occasional cross-bedding, ripup clasts and soft deformational structures.  Shale: 25% interbedded, dark grey shale, sub-fissile, hard, silty, micaceous, minor pyrite.  NVP, no shows.	Abundant white calcite veins, from parallel to bedding to vertical. Some veins are 2-4cm wide At 408.62-408.77m small calcite vugs filled with crystalline calcite.	Bedding 0* - 10* from horizontal

SHEET # <u>25</u>
Date: <u>July 11/97</u>

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: Core size: HQ

Hole No: BIG SPRING #1

Spud date: May 25, 1997 Completed: \_\_\_\_\_ Logged by: Roland Strickland

Depth		Lithology Description	Fracture / Alteration	Remarks
404.15 - 411.12m	Box 125	At 409.99 - 411.2m limestone more massive, oolitic - pisolitic with minor calcite		i .
411.12 - 414.34m	Box 125	Shale-Siltstone: 60% dark grey, sub-fissile, hard, silty, calcareous, slightly micaceous. Dolomitic-Limestone: 40% grey, interbedded with shale, micritic, slightly argillaceous, cross-bedding features, fine laminae Frequent alternating bands of very dark grey-grey limestone dolomite. NVP, no shows.		Bedding 0* - 10* from horizontal.
414.34 - 422.84m	Box 126	Limestone: dark grey to grey bands of micritic limestone, with abundant shale partings, fine laminae, frequent intraclasts, occasional bioturbation, minor stylolites and disseminated pyrite. Increase in very dark grey limestone, slightly argillaceous from 419.29-420.22m White calcite vein 15cm wide at 421.87m, parallel to bedding. Abundant shale partings in the banded limestone.	Frequent calcite veining from 1-5cm wide, generally parallel to bedding. Brecciation common in the 4-5cm wide veins at 419.72 and 421.87m	Bedding 0* - 20* from hirizontal.

SHEET # <u>26</u>
Date: <u>July 11-12/97</u>

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation:30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_Core size: HQ

Hole No:BIG SPRING #1

Spud date: May 25, 1997 Completed:

Depth	Lithology Description		Fracture / Alteration	Remarks
422.84 - 429.91m	Box 129	Limestone: crystalline, grey, massive oolitic limestone with minor stylolitic textures and shale partings, minor flecks of pyrite.  From 429.25-429.91m limestone is grey, micritic with bands of dark grey limestone, soft deformation structures with intraclast common.  NVP, no shows	Minor calcite veining.	
429.91 - 434.33m	Box 130 131 132	Dolostone: very dark grey, micritic dolostone, with a fine laminae, slightly argillaceous, with shale partings common. NVP, no shows. From 433.43-434.33m dolostone becomes more calcareous, with increase in calcite veining both parallel and vertical to bedding, increase in shale partings	Occasional calcite veins parallel to bedding.  Calcite veining from 433.94 - 434.17	Bedding 10* - 30* from horizontal.
434.33 - 440.37m	Box 132	Limestone: massive crystalline grey, oolitic-pisolitic limestone, weakly stylolitic, minor shale partings, occasional intraclasts, minor fine grained pyrite. From 434.33-435.25m micritic with abundant calcite veining. NVP, no shows.	Calcite veining parallel and vertical to bedding from 434.63 - 439.12m	

SHEET # <u>27</u>
Date: <u>July 12/97</u>

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: Core size: HQ

Hole No: BIG SPRING # 1

Spud date: May 25, 1997 Completed:

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	Lithology Description	Fracture / Alteration	Remarks
Box 134	Dolostone: dark grey, micritic, with fine laminae, slightly calcareous. Abundant white calcite veining throughout with common veinlets of pyrite, frequent shale partings.  NVP, no shows.	Abundant white calcite veining parallel and vertical to bedding: Brecciation and micro-faulting and small scale folding common	Bedding 10* - 30* from horizontal.
Box 135	Limestone: dark grey to grey, massive, micritic limestone, occasionally dolomitic, with a fine laminae, slightly argillaceous. Abundant calcite veining from 443.5-444.45m From 444.45 to 450.62m very dark grey limestone with minor calcite parallel to bedding, increase in shale partings.  NVP, no shows. From 450.62-453.96m dark grey micritic limestone interbedded with dolostone, frequent shale partings, occasional intraclasts, frequent alternating bands of grey to dark grey limestone with fine laminae, speckled white calcite blebs throughout.  NVP, no shows	White calcite veining from 443.5-444.45, brecciated with small scale faulting.  Abundant white calcite veining at 451.45-452.08m parallel to bedding  At 453.6m calcite veining 1-2cm wide parallel to bedding.	Bedding 10* - 30* from horizontal.  Bedding 20* - 30* from horizontal.
	Box 135	Box 134 Dolostone: dark grey, micritic, with fine laminae, slightly calcareous. Abundant white calcite veining throughout with common veinlets of pyrite, frequent shale partings. NVP, no shows.  Box Limestone: dark grey to grey, massive, micritic limestone, occasionally dolomitic, with a fine laminae, slightly argillaceous. Abundant calcite veining from 443.5-444.45m From 444.45 to 450.62m very dark grey limestone with minor calcite parallel to bedding, increase in shale partings. NVP, no shows.  137 From 450.62-453.96m dark grey micritic limestone interbedded with dolostone, frequent shale partings, occasional intraclasts, frequent alternating bands of grey to dark grey limestone with fine laminae, speckled white calcite blebs throughout.	Box vith fine laminae, slightly calcareous. Abundant white calcite veining throughout with common veinlets of pyrite, frequent shale partings.  NVP, no shows.  Box Limestone: dark grey to grey, massive, micritic limestone, occasionally dolomitic, with a fine laminae, slightly argillaceous. Abundant calcite veining from 443.5-444.45m From 444.45 to 450.62m very dark grey limestone with minor calcite parallel to bedding, increase in shale partings.  NVP, no shows.  137 From 450.62-453.96m dark grey micritic limestone interbedded with dolostone, frequent shale partings, occasional intraclasts, frequent alternating bands of grey to dark grey limestone with fine laminae, speckled white calcite blebs throughout.  Abundant white calcite veining parallel and vertical to bedding.  Brecciation and micro-faulting and small scale folding.  Brecciation and micro-faulting and small scale folding.  Brecciation and micro-faulting and small scale folding.  Abundant white calcite veining from 443.5-444.45, brecciated with small scale faulting.  Abundant white calcite veining and small scale folding.  Abundant white calcite veining from 443.5-444.45, brecciated with small scale faulting.  Abundant white calcite veining and small scale folding.

SHEET # <u>28</u> Date: <u>July 13/97</u>

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: Core size: HQ

Hole No: BIG SPRING # 1

Spud date: May 25, 1997 Completed:

Depth		Lithology Description	Fracture / Alteration	Remarks
453.96 - 461.12m	Box 138 139 140	Limestone: grey to dark grey micritic limestone with alternating wavy bands of black to dark grey, micritic dolostone, frequent shale partings, intraclasts, bed slumping, and soft deformation common. NVP, no shows	Abundant white calcite veining (0.5-1.5cm wide) throughout, both parallel and near vertical to bedding. Frequent micro-faulting and folding, minor brecciation.	Bedding 20* - 30* from horizontal.
461.12 - 475.63m	Box 140 141 142 143 144	Limestone: grey to dark grey, massive, crystalline, bioturbated intraformational conglomerate, limestone. Frequent black, argillaceous rims surrounding the limestone, minor very fine grained pyrite, occasional stylolites with shale partings. NVP, no shows	Minor calcite veining	
475.63 - 481.05m	Box 144	Limestone: grey to dark grey micritic limestone, interbedded with black to dark grey wavy bands(2-3cm wide) micritic dolostone. Argillaceous, frequent black shale partings, soft deformation structures common, stromatolitic at 480.19m, rip-up clasts, crossbedding, & graded bedding common. NVP, no shows.	Abundant white calcite veining both parallel to near vertical to bedding. Abundant microfaulting and folding, with brecciation common.	Bedding 20* - 30* from horizontal.

SHEET # <u>29</u>
Date: July 13/97

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: Core size: HQ

Hole No: BIG SPRING #1

Spud date: May 25, 1997 Completed:

Depth		Lithology Description	Fracture / Alteration	Remarks
481.05 - 484.73m	Box 146	Dolostone - Siltstone: black to dark grey, micritic, dolostone, interbedded with brown grey fine grained siltstone, well indurated & slightly calcareous. Occasionally intraclastic with large rip-up clasts. Grey micritic limestone with shale partings from 484.32-484.73m.	Abundant white calcite veining up to 2cm wide. Brecciation common throughout.	Bedding 10* - 20* from horizontal.
484.73 - 486.19m	Box 147	Limestone: grey, massive, crystalline, oolitic limestone, with well developed stylolitic texture. NVP, no shows.	minor calcite veining	
486.19 - 491.26m	Box 147	Limestone - Dolostone: grey, micritic limestone, interbedded with black-grey micritic dolostone. Fine laminae, abundant soft deformation structures, occasional intraformational conglomerate limestone, frequent shale partings, minor fine grained pyrite. NVP, no shows.	Abundant white calcite veining, (0.5-3cm wide), parallel to near vertical to bedding. At 489.36-490.46m intense small scale folding and faulting.	Bedding 20* - 40* from horizontal.

SHEET # <u>30</u>
Date: <u>July 14/97</u>

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_ Core size: HQ

Hole No: BIG SPRING #1

Spud date: May 25, 1997 Completed:

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Depth		Lithology Description	Fracture / Alteration	Remarks
491.26 - 493.69m	Box 149	Limestone-Dolostone: dark grey - black, micritic dolomitic limestone, fine laminae, occasional cross-bedding & intraformational conglomerate limestone, minor shale partings. NVP, no shows.	Minor white calcite parallel to bedding.	Bedding 20* - 30* from horizontal.
493.69 - 500.18m	Box 149	Limestone: grey-dark grey, massive, crystalline to micritic limestone. From 493.69-494.67m interbedded with black micritic dolostone, bioturbated & intraformational limestone, minor shale partings.	Minor calcite veining parallel to bedding.	Bedding 20* - 30* from horizontal.
	150	From 494.67-495.84m very dark grey massive oolitic-pisolitic limestone with abundant intraformational limestone. From 495.84-496.96m mainly micritic limestone interbedded with black micritic dolostone, frequent black shale partings, micaceous.		
	151	From 496.96-500.18m grey micritic to massive limestone, slightly pisolitic, interbedded with black dolostone, intraformational conglomerate common. NVP, no shows.		

SHEET # <u>31</u>
Date: <u>July 14/97</u>

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_Core size: HQ

Hole No:BIG SPRING # 1

Spud date: May 25, 1997 Completed:

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Depth		Lithology Description	Fracture / Alteration	Remarks
500.18 - 514.76m	Box	Shale - Siltstone: Shale 70% dark grey - black sub-fissile, hard, blocky, well indurated, slightly calcareous with well developed fine laminae. Siltstone 20% dark grey, massive, interbedded with shale and grey micritic limestone. Frequent micaceous - clay partings, minor fine grained pyrite. Limestone 10% From 500.32-500.85m limestone stromatolitic with intraclasts. NVP, no shows.	Abundant white calcite veining both parallel and near vertical to bedding. Extensive brecciation at 501.33m & from 507.63-508.91m.	Bedding 20* - 40* from horizontal.

SHEET # <u>32</u> Date: <u>July 15/97</u>

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: Core size: HQ

Hole No:BIG SPRING #1

Spud date: May 25, 1997 Completed:

Depth		Lithology Description	Fracture / Alteration	Remarks
514.7-517.65m	Box 157	Shale: dark grey, black, sub- fissile to fissile, hard, indurated slightly calcareous, well developed fine laminae, frequent micaceous-phyllitic partings, minor pyrite, fossil fragments @ 515.31m. NVP, no shows.	Abundant white calcite veining predominately parallel to bedding. Brecciation with micro-folding and faulting throughout.	Bedding 20* - 30* from horizontal
517.65 - 522.37m	Box 158 159	Limestone: grey to dark grey, massive, crystalline, intraformational conglomerate, bioturbated, minor slumping. fossil fragments @ 518.31m, minor shale partings. NVP, no shows.	Minor calcite veining parallel to bedding.	
522.37 - 524.6m	Box 159	Limestone - Shale: grey micritic limestone, interbedded with black fissile to sub-fissile shale, hard and indurated. Cross-bedding and soft deformation common, minor pyrite. NVP, no shows.	Minor calcite veining parallel to bedding.	Bedding 20* - 30* from horizontal.
524.6 - 536.85m	Box 159 160 161	Limestone: grey to dark grey, massive, crystalline to micritic, intraformational conglomerate limestone, bonded by a matrix of black carbonate mud, intraclastic, bioturbated,	Minor calcite veining parallel to bedding.	

SHEET # <u>33</u>
Date: <u>July 15/97</u>

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation:30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_ Core size: HQ

Hole No:BIG SPRING #1

Spud date: May 25, 1997 Completed:

Depth	Lithology Description	Fracture / Alteration	Remarks
524.6 - 536.85m	Box Limestone: with occasional shale partings. NVP, no shows		
536.85 - 540.39m	Box 163 Limestone - Shale: grey - light grey, micritic, limestone, interbedded with black fissile -sub-fissile shale, hard, indurated, slightly calcareous, cross-bedding, slump beds and soft deformation common, occasional rip-up clasts. NVP, no shows.	Minor calcite veining parallel to bedding, micro-faulting common.	Bedding 10* -30* from horizontal.
540.39 - 545.83m	Box Limestone: grey to light grey, micritic, abundant intraformational conglomerate limestone bonded by a matrix of black carbonate mud with frequent rip-up clasts.  Large intraclasts up to 3cm in diameter, frequent interbedding of black shale, hard, indurated Shale partings common, occasional fine grained pyrite.  NVP, no shows.		Bedding 20* - 30* from horizontal.

SHEET # <u>34</u>
Date: <u>July 16/97</u>

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation:30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: Core size:<u>HQ</u>

Hole No: BIG SPRING # 1

Spud date: May 25, 1997 Completed:

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Depth		Lithology Description	Fracture / Alteration	Remarks
545.83 - 550.4m	Box 166 167	Shale: black, fissile-sub-fissile, hard, indurated, well developed fine laminae, interbedded with light grey limestone, soft deformation common, occasional intraclasts.  NVP, no shows.	Abundant white calcite veining from 1 -2cm wide, parallel to near vertical to bedding, frequent micro-folding & faulting.	Bedding 30* - 40* from horizontal.
550.4 - 555.52m	Box 167	Limestone: grey, micritic, intraformational conglomerate limestone, bonded by a matrix of black calcareous carbonate mud. Abundant shale partings with frequent interbedded black shale.  From 554.17-555.52m predominately black shale with occasional intraformational limestone. At 553.65m minor fossil fragments, occasional intraclasts. NVP, no shows.	Occasional calcite veining parallel to bedding, up to (6cm wide), brecciation common.	
555.52 - 566.07m	Box 169	Limestone 60% - Shale 40% grey to light grey micritic intraformational conglomerate limestone, bonded with black carbonate muds, interbedded with black fissile to sub-fissile shale. NVP, no shows.  From 558.89-562.39m, black sub-fissile shale	Frequent calcite veining parallel to near vertical to bedding.	Bedding 10* -40* from horizontal.

SHEET # <u>35</u>
Date: <u>July 16/97</u>

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation:30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_ Core size: HQ

Hole No:BIG SPRING #1

Spud date: May 25, 1997 Completed:

Depth		Lithology Description	Fracture / Alteration	Remarks
555.52 - 566.07	Box 170	From 558.89-562.39m mainly black shale, minor pyrite, interbedded with dark grey limestone, intraclastic, with fossil fragments.		
	171	From 562.39-563.28m abundant intraformational conglomerate, with intraclasts up to 3cm in diameter. From 563.28-564.08m black fissile shale.		
	172	From 564.08-566.07m mainly intraformational conglomerate, light grey limestone, bioturbated, burrowed limestone with fossil fragments @ 565.45m, occasional rip-up clasts.		
566.07 - 570.42m	Box 172 173	Limestone: dark grey, massive limestone, cemented with a matrix of black carbonate muds, fossil fragments throughout this section, minor pyrite, occasional black shale partings. NVP, no shows.	i	

SHEET # <u>36</u>
Date: <u>July 16/97</u>

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation:30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_Core size: <u>HQ</u>

Hole No: BIG SPRING #1

Spud date: May 25, 1997 Completed:

Depth	Τ	ithology Description	Fracture / Alteration	Remarks
570.42 - 576.22m	Box Sha 173 bla lan 174 into	nale - Limestone: ack fissile-sub-fissile, hard, minated shale, with terbedded limestone(0.5-2cm ade), light grey, micritic. VP, no shows.	Abundant white calcite veining, mainly parallel to bedding. Some parallel veins @ 575.93 are 15cm wide. Abundant micro faulting and folding in the white calcite veinlets.	Bedding 20* - 30* from horizontal.
576.22 - 581.76m	175 mi con bo cal int	mestone: grey to light grey icritic, intraformational onglomerate limestone, anded by a matrix of black cleareous carbonate muds, traclastic, occasional fine rained pyrite, abundant shale artings. NVP, no shows.	Minor calcite veining.	
581.76 - 587.38m	177 bla lar int 178 mi fin mi cro	nale 70% - Limestone 30% ack fissile-sub-fissile, minated, hard shale, terbedded with light grey icritic limestone, intraclastic, ne laminae, with abundant icro-faulting and folding, coss-bedding & slump beds ommon, fine grained pyrite troughout. NVP, no shows.	Abundant white calcite veining mainly parallel to bedding. Numerous microfolding and faulting features. Brecciation @ 585.56-585.98m	

SHEET # <u>37</u>
Date: <u>July 17/97</u>

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_Core size: HQ

Hole No: BIG SPRING # 1

Spud date: May 25, 1997 Completed:

Depth		Lithology Description	Fracture / Alteration	Remarks
587.38 - 601.39m	Box 178	Limestone: 60% - Shale: 40% grey to light grey micritic limestone, with sections of intraformational conglomerate and intraclasts up to 3cm wide, interbedded with black fissile to sub-fissile shale, laminated. NVP, no shows.		
	179	From 587.38-591.07 intraformational conglomerate limestone, with abundant intraclasts and rip-up clasts.	Abundant white calcite veining, parallel to near vertical to bedding. Frequent brecciation with complex microfaulting & folding.	Bedding increase from 20* - 50* from horizontal.
	180	From 591.07-593.26m, grey limestone with black interbedded laminated shale.	Minor calcite veining, mainly parallel to bedding.	Bedding 20* - 30* from horizontal.
	180	From 593.26-594.37m, mainly intraclastic limestone in a matrix of black shale.	Abundant white calcite, parallel to bedding.	Bedding 10* - 20* from horizontal
	181	From 594.37-599.01m, limestone with black, fine laminated shale.	Occasional calcite veining, up to 3cm wide, mainly parallel to bedding.	Bedding 20* - 40* from horizontal
	182	From 599.01-601.39m, mainly black shale with minor pyrite, interbedded with light grey, micritic limestone, occasional intraclasts.	Frequent calcite veining mainly parallel to bedding, with micro-faulting, folding & brecciation	Bedding 10* - 20* from horizontal.

SHEET # <u>38</u>
Date: <u>July 17/97</u>

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation:30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_Core size: HQ

Hole No:BIG SPRING #1

Spud date: May 25, 1997 Completed:

Depth		Lithology Description	Fracture / Alteration	Remarks
601.39 - 606.71m	Box 183	Shale: black, sub-fissile, blocky silty, hard, with fine grained pyrite common.  NVP, no shows.	Abundant white calcite veining, parallel and near vertical to bedding, frequent brecciation, micro-faulting and folding.	Bedding 10* - 20* from horizontal.
606.71 - 609.92m	Box 184	Shale: 60% - Limestone: 40% black, sub-fissile to blocky shale, interbedded with grey micritic limestone, with intraclasts of light grey limestone up to 5cm in diameter, intraformational conglomerate limestone common, frequent slump beds NVP, no shows.	Frequent white calcite veining mainly parallel to bedding.	Bedding 10* - 30* from horizontal.
609.92 - 614.71m	Box 185	Limestone: light grey to grey micritic limestone, with minor interbedded black shale, frequent intraformational conglomerate limestone. Frequent shale-phyllitic partings. NVP, no shows.	Abundant white calcite veining parallel and near vertical to bedding. Intense brecciation from 610.64-611.46m	Bedding 10* from horizontal.

SHEET # <u>39</u>

Date: <u>July 17-18/97</u>

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_ Core size: HQ

Hole No:BIG SPRING #1

Spud date: May 25, 1997 Completed:

Depth		Lithology Description	Fracture / Alteration	Remarks
614.71 - 617.03m	Box 186	Limestone: 50% - Shale: 50% grey micritic limestone interbedded with black blocky shale, frequent large rip-up clasts 5cm in diameter. NVP, no shows.	Abundant white calcite brecciation throughout the whole section.	
617.03 - 621.25m	Box 187	Shale: black, blocky to massive, hard, slaty with frequent rip-up clasts and brecciated fragments of light grey limestone, abundant schistose partings.  Melange type structure.  NVP, no shows.	Intense brecciation of white crystalline to massive calcite throughout the whole section.	Bedding 20* from horizontal.
621.25 - 625.6m	Box 188 189 190	Shale: 60% - Siltstone: 40% black, sub-fissile to blocky, hard, shale interbedded with light grey to buff siltstone, quartz-feldspar rich, very hard, well indurated, slightly calcareous, occasional intraclasts of grey limestone. NVP, no shows.	Abundant white calcite veining parallel and near vertical to bedding. Brecciation throughout.	Bedding 10* - 30* from horizontal.
625.6-633.40m	Box 190	Shale: 70% - Limestone: 20% Siltstone: 10% Predominately black, sub-fissile to blocky, hard shale, interbedded with light grey micritic ribbon limestone and	Abundant calcite veining mainly parallel to bedding. Strongly brecciated from 625.97-627.36m	Bedding 20* - 40* from horizontal.

SHEET # <u>40</u>

Date: <u>July 18-19/97</u>

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation:30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_ Core size: HQ

Hole No:BIG SPRING #1

Spud date: May 25, 1997 Completed:

Depth		Lithology Description	Fracture / Alteration	Remarks
625.6 - 633.40m	Box 190 191 192	Shale: Limestone: Siltstone minor grey-buff, quartz-feldspar rich siltstone, very hard and well indurated. Frequent rip-up clasts and intraclasts of grey limestone. Phyllitic partings very common. NVP, no shows.	Extensive veining from 628.28-629.23m Calcite vein 10cm wide at 629.76m. Micro-faulting and folding common.	Bedding 20* - 40* from horizontal.
633.40 - 645.80	Box 192 193 194 195 196	Limestone: 50% - Shale: 50% grey, micritic limestone, intraformational conglomerate limestone, with intraclasts 5cm in diameter, interbedded black, sub-fissile-blocky, hard shale, frequently slaty to phyllitic, minor pyrite, occasional very fine grained grey-buff siltstone. NVP, no shows.	Abundant calcite veining throughout with brecciated zones from 635.96-636.91m from 637.16-637.57m extensive complex micro-faulting and folding.	1 1
645.80 - 654.40m	Box 196 197 198	Shale: 70% - Limestone: 30% black, sub-fissile to blocky, hard, smooth, laminated, slightly calcareous shale, interbedded with thin (3-15mm) wide grey ribbon limestone, occasional intraclasts and rip-up clasts. NVP, no shows.	common.	Bedding 30* - 40* from horizontal.

SHEET # <u>41</u>
Date: <u>July 19/97</u>

Location(NTS.): 2M/4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_Core size: HQ

Hole No:BIG SPRING #1

Spud date: May 25, 1997 Completed:

Depth		Lithology Description	Fracture / Alteration	Remarks
654.40 - 661.66m	Box 198 199 200	Shale: 50% - Siltstone: 40% Limestone: 10% black, blocky to sub-fissile, hard shale, interbedded with siltstone, grey-buff, very hard, indurated, quartz-feldspar rich, bonded in a matrix of black carbonate muds, cross laminated, occasional intraclasts of grey limestone, fossil fragments @ 659.45m NVP, no shows.	Abundant calcite veining mainly vertical to bedding. Intense brecciation from 655.58-656.61m & from 659.45-660.89m. Microfaulting and folding common.	Bedding 20* - 30* from horizontal.
661.66 - 666.51m	Box 201	Shale: black, fissile to sub- fissile, blocky, medium hard, smooth with abundant slickenside partings, micaceous, occasional pyrite, interbedded with grey-buff, very hard, indurated siltstone. Minor ribbon grey micritic limestone NVP, no shows	Frequent calcite veining, parallel to near vertical to bedding.	Bedding 40* - 50* from horizontal.
666.51 - 671.64m	Box 202	Shale: 70% - Limestone: 30% black shale, fissile-sub-fissile, hard, smooth, laminated, interbedded with grey ribbon limestone, minor intraformational conglomerate limestone and intraclasts, some soft deformation, mainly phyllitic partings, minor	Frequent calcite veining, mainly parallel to bedding, minor brecciation, micro-faulting and folding common.	Bedding 30* from horizontal.

SHEET # <u>42</u>

Date: July 19-20/97

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: Core size: HQ

Hole No:BIG SPRING #1

Spud date: May 25, 1997 Completed:

Depth		Lithology Description	Fracture / Alteration	Remarks
666.51 - 671.64m (5.13m)	Box 203	Shale: 70% - Limestone: 30% argillaceous. NVP, no shows.		
671.64 - 673.43m (1.79m)	Box 204	Shale: 50% - Limestone: 50% black, sub-fissile to blocky, hard, smooth, dense shale interbanded with light grey micritic limestone up to (0.75m wide) NVP, no shows.	Occasional calcite veining parallel to near vertical to bedding. Micro-folding common.	Bedding 30* from horizontal.
673.43 - 674.50m (1.07m)	Box 204	Shale: 70% - Limestone: 30% black shale, sub-fissile, hard, cross-laminated, interbedded, with grey ribbon limestone. NVP, no shows,	Calcite veining mainly parallel to bedding.	Bedding 10* - 20* from horizontal.
674.50 - 683.44m (8.94m)	Box 205 206	Shale: black, sub-fissile, hard, occasional slickensides, schistose. Frequent angular - sub-rounded clasts of limestone in a matrix of carbonate muds. Brecciated fragments of grey limestone and white crystalline calcite common, minor light grey ribbon limestone. Melange type features. Six(6)cm of fault gouge at 682.89m. NVP, no shows.	Abundant white calcite veining parallel and near vertical to bedding. Brecciation throughout. Frequent complex micro-folding and faulting.	Bedding 30* - 40* from horizontal.

SHEET # <u>43</u>
Date: <u>July 20, 1997</u>

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_Core size: HQ

Hole No: BIG SPRING #1

Spud date: May 25, 1997 Completed:

Depth		Lithology Description	Fracture / Alteration	Remarks
683.44 - 698.95m (15.51m)	Box 208 209 210 211 212		Frequent white calcite veining from mainly parallel to near vertical to bedding.  Frequent calcite veining parallel to bedding. Occasional calcite veining parallel to bedding. Frequent calcite veining parallel to bedding.	Bedding 30* - 40* from horizontal.  Bedding 30* - 40* from horizontal.  Bedding 30* - 50* from horizontal.  Bedding 30* - 40* from horizontal.

SHEET # <u>44</u>
Date: <u>July 20, 1997</u>

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_ Core size: HQ

Hole No:BIG SPRING #1

Spud date: May 25, 1997 Completed:

Depth	Lithology Description	Fracture / Alteration	Remarks
698.95 - 715.64m (16.69m)	Box Shale: black, blocky to fis hard to medium hard, occasionally laminated, sr with frequent slickensides NVP, no shows.	nooth	D-11: 20*
	From 698.95-702.10m interbedded grey ribbon limestone with rip-up clas	Abundant calcite veining parallel to ts. near vertical to bedding Micro-faulting and folding.	Bedding 30* from horizontal.
	From 702.10-704.23m shale, black, blocky-splin hard, dense, with an incre bedding from 30*-60*.	* '	Bedding 60* from horizontal
	From 704.23m-706.15m mainly shale, black, block with increase brecciated z of angular fragments of limestone, siltstone and w calcite.	ones near vertical to bedding.	Bedding 30* - 50* from horizontal.
	215 From 706.15-714.26m shale, black, sub-fissile to 216 fissile, occasionally splint	ery, near vertical to	Bedding 30* - 50* from horizontal.
	waxy along partings, mineral ribbon limestones, increase limestone from 712.22-71 banded, intraformational conglomerate, with intractin brecciated zones.	brecciation 4.26m throughout.	

SHEET # <u>45</u>

Date: July 20-21, 1997

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_ Core size: HQ

Hole No: BIG SPRING #1

Spud date: May 25, 1997 Completed:

Depth		Lithology Description	Fracture / Alteration	Remarks
698.95 - 716.64m (17.69m)	Box 217	From 714.26-716.64, shale, black, blocky, dense, slaty, with silty partings.	Minor calcite veining.	Bedding 40* from horizontal.
716.64 - 718.64m (2.0m)	Box 218	Shale: black, blocky to sub- fissile, smooth to irregular partings, occasional brecciated zones with fragments of limestone, siltstone, and white calcite. NVP, no shows.	Abundant white calcite in a chaotic pattern throughout, complex folding common.	Bedding 40* -50* from horizontal
718.64 - 728.66m (10.02m)	Box	Shale: black, blocky to sub- fissile, smooth, shaly to schistose throughout, with interbanded limestone and siltstone and ribbon limestone. NVP, no shows.		
	219	From 718.64 -719.95m intraformational conglomerate limestone, rounded fragments of siltstone, rip-up clasts, occasional cross-bedding and soft deformation features.	Occasional white calcite parallel to near vertical to bedding.	Bedding 40* from horizontal.
	219	From 719.95-722.06 shale, laminated, waxy to silty partings, with grey ribbon and parted limestone.	Minor calcite veining mainly parallel to bedding.	Bedding 30* - 40* from horizontal.
	220	From 722.06-726.13m, black shale, waxy-micaceous partings with occasional brecciated fragments of limestone, siltstone and white calcite.	Frequent white calcite veining, mainly near vertical to bedding.	Bedding 30* from horizontal.

SHEET # <u>46</u>
Date: <u>July 21, 1997</u>

Location(NTS.): 2M/4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: Core size:HQ

Hole No:BIG SPRING #1

Spud date: May 25, 1997 Completed:

Depth		Lithology Description	Fracture / Alteration	Remarks
	Box 221		Minor white calcite veining.	···
728.66 - 731.62m (2.96m)	Box 222	Shale: 70% - Ribbon Limestone: 30% black shale, sub-fissile, hard, laminated and cross-laminated, with grey ribbon limestone. NVP, no shows.	Abundant white calcite veining, mainly parallel to bedding.	Bedding 10* - 20* from horizontal.
731.62 - 733.84m (2.22m)	Box 223	Melange Zone: Shale, black, blocky, slaty, with brecciated fragments of siltstone and limestone bonded in a matrix of black carbonate muds and crystalline calcite, schistose slickensides common.	Abundant white calcite brecciation, with calcite vein 19cm wide @ 732.62m, chaotic structures throughout.	Bedding 30* from horizontal
733.84 - 738.78m (4.94m)	Box 224	Shale: black, sub-fissile to blocky, hard, dense, slightly laminated and calcareous, slaty, smooth, greasy partings, minor brecciated zone of limestone and white calcite @ 738.37m NVP, no shows.	Minor calcite veining parallel to bedding.	Bedding 20* - 30* from horizontal.

SHEET # <u>47</u>

Date: July 21-22, 1997

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_\_Core size: HQ

Hole No:BIG SPRING # 1

Spud date: May 25, 1997 Completed:

Depth		Lithology Description	Fracture / Alteration	Remarks
738.78 - 742.47m (3.01m)	Box 225	Limestone: grey, intraformational conglomerate limestone, bonded in a matrix of black carbonate muds, soft deformation structures common, parted black, greasy, shale throughout. NVP, no shows.	Calcite vein 15cm wide @ 738.79. Minor veining, mainly parallel to bedding.	Bedding 20* - 30* from horizontal.
742.47 - 747.87m (5.40m)	Box 226	Shale: - Ribbon Limestone: black, blocky to sub-fissile, hard, dense, finely laminated, slickensided, greasy, micaceous partings common, minor pyrite, occasional thin bedded ribbon and nodular limestone, with rip-up clasts. NVP, no shows.	Abundant white calcite veinlets in a chaotic appearance.	Bedding 30* - 40* from horizontal.
747.87 - 752.00m (4.13m)	Box 228	Limestone: 70% - Shale: 30% dark grey, micritic, nodular bedded limestone, with abundant black shale partings, cross laminations common, from 749.41-750.17m, blocky, dense shale.  NVP, no shows.	Abundant calcite veining parallel and near vertical to bedding. Brecciation 0.26m wide @ 749.08m & 0.32m wide @ 750.91m	

SHEET # <u>48</u>
Date: <u>July 22, 1997</u>

Location(NTS.): 2M/4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_ Core size: HQ

Hole No:BIG SPRING #1

Spud date: May 25, 1997 Completed:

Depth		Lithology Description	Fracture / Alteration	Remarks
752.00 - 754.13m (2.13m)	Box 229	Limestone: grey, micritic, ribbon limestone, thinly bedded with black shale, silty, greasy-micaceous partings, very fine laminae with abundant cross-laminated features, occasional calcite rip-up clasts, minor pyrite. NVP, no shows.	Minor calcite veining mainly parallel to bedding.	Bedding 50* from horizontal.
754.13 - 756.72m (2.59m)	Box 229	Limestone: 70% - Shale: 30% grey, micritic, nodular bedded limestone, with interbedded and parted black shale, waxy slickensides common. Intense brecciation, with fragments of limestone throughout. NVP, no shows.	Abundant white calcite veining parallel to near vertical to bedding. Abundant microfaulting and folding.	Bedding 30*- 40* from horizontal.
756.72 - 764.55m (7.83m)	Box 230 231 232	Limestone: light grey, massive, micritic, stylo-nodular to ribbor limestone, with occasional rounded clasts of crystalline limestone, 2-3mm in diameter, minor shale-schistose partings. From 761.82-762.37m, black shale with ribbon and parted limestone.  NVP, no shows.	Minor calcite veining parallel to bedding.	Bedding 20* from horizontal.

SHEET # 49

Date: July 22-23, 1997

Location(NTS.): 2M/4

UTM Cood: N 5664039, E 572158

Elevation:30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_Core size: HQ

Hole No: BIG SPRING #1

Spud date: May 25, 1997 Completed: Logged by: Roland Strickland
Drilled by: East Coast Drilling

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Depth		Lithology Description	Fracture / Alteration	Remarks
764.55 - 766.30m (1.75m)	Box 232	Limestone: 80% - Shale: 20% grey, micritic, ribbon limestone, stylo-nodular bedding, crosslaminated, with black shale, greasy -micaceous partings. NVP, no shows.	near vertical to bedding. Calcite vein	Bedding 20* -30* from horizontal.
766.30 - 771.42m (5.12m)	Box 233	Limestone: 60% - Shale: 40% grey microcrystalline to crystalline limestone, ribbon to nodular, cross-laminated to interbedded, with black, sub fissile, medium hard, shale, slump folded, smooth, waxy partings.  Oolitic limestone 0.2m wide @ 766.30m and 0.29m wide @ 771.13m.  Mainly black shale from 770.50-770.89m.  NVP, no shows.	Frequent calcite veining mainly parallel to bedding.	Bedding 10* -20* from horizontal.
771.42 - 772.81m (1.39m)	Box 235	Limestone: grey, massive, micritic, nodular bedded with very thin partings of black shale, minor slump beds, oolitic @ 771.42 (0.34m wide) NVP, no shows.	Minor calcite veining mainly parallel to bedding.	Bedding 20* -30* from horizontal

SHEET # <u>50</u> Date: <u>July 23, 1997</u>

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation:30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_Core size: HQ

Hole No: BIG SPRING #1

Spud date: May 25, 1997 Completed:

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	Depth		Lithology Description	Fracture / Alteration	Remarks
	772.81 - 774.87 (2.06)	Box 235	Shale: 70% - Limestone: 30% black, sub-fissile, hard, dense, very fine laminae, slump folded, greasy argillaceous partings, interbedded with grey micritic limestone, slightly nodular, thinly to cross-bedded, rip-up clasts. NVP, no shows.	Abundant calcite veining mainly parallel to bedding, micro-folding and faulting common.	Bedding 20* -30* from horizontal.
	774.87 - 778.23m (3.36)	Box 236	Limestone: dark grey, micritic, parted limestone, slightly ribbon, with very thin, smooth, waxy, parted black shale, laminated and cross laminated features common.  NVP, no shows.	Calcite brecciation @ 774.86m (0.28m wide), minor veining parallel to bedding.	Bedding 40* -50* from horizontal
	778.23 - 781.64m (3.41m)	Box 237	Limestone: dark grey, micritic, ribbon limestone, slightly nodular, with very fine laminated to interbedded black shale. Oolitic section @779.27m, (0.29m wide) NVP, no shows.	Highly fractured and brecciated, with white calcite parallel to near vertical to bedding. Intense brecciation @ 779.04m (0.35m wide).	ŧ · · · · · · · · · · · · · · · · · · ·

SHEET # 51
Date: July 23, 1997

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_Core size: HQ

Hole No:BIG SPRING #1

Spud date: May 25, 1997 Completed:

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Depth		Lithology Description	Fracture / Alteration	Remarks
781.64 - 786.01m (4.37m)	Box 238	Limestone: 40% - Shale: 60% dark grey micritic to crystalline limestone, interbedded with black fissile to sub-fissile hard shale, laminated and cross laminated, slump beds common, oolitic section @ 784.59m (0.23m wide). NVP, no shows.	Abundant calcite veining in a chaotic appearance. Brecciation throughout. Small fault zone with calcareous argillaceous muds @ 781.98m, 0.10m wide, and @ 782.57m 0.20m wide. Calcite vein @ 782.57m, 0.19m wide.	Bedding 20* -30* from horizontal.
786.01 - 787.94m (1.93m)	Box 239	Limestone: grey, micritic to crystalline, massive, with minor interbedded black shale, fossil fragments @786.59.  NVP, no shows.	Frequent calcite veining parallel to near vertical to bedding. Brecciation @786.85m (0.22m wide.)	Bedding 30* -40* from horizontal.
787.94 - 793.26m (5.32m)	Box 240	Shale: black, hard, dense, blocky to splintery, slaty, minor pyrite, silty partings interbedded with grey limestone (up to 6cm wide),parted limestone, laminated to cross laminated from 791.92-793.00m. NVP, no shows.	parallel to bedding.	Bedding 20* -30* from horizontal

SHEET # <u>52</u>

Date: July 23-24, 1997

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_ Core size: HQ

Hole No: BIG SPRING #1

Spud date: May 25, 1997 Completed:

Danth		Tid day is Disassing	Fracture / Alteration	Remarks
Depth 793.26 - 797.90m (3.93m)	Box 242	Lithology Description  Limestone: dark grey, massive, very hard, indurated, coarse crystalline, oolitic limestone, slightly stylolitic with very irregular partings.  NVP, no shows.	Frequent calcite veining parallel to near vertical to bedding.	Bedding 10* -20* from horizontal.
NOTE: DEPTH CORRECTION FROM 798.69 - 796.83m (1.86m)				
794.48 - 798.02m (3.97m)	Box 243	Limestone: 70% - Shale: 30% grey, micritic, ribbon limestone with interbedded and thin parted shale, laminated and cross laminated, rip-up clasts common, slaty partings.  NVP, no shows.	Calcite veining mainly parallel to bedding, up to 5cm wide.	Bedding 10* -20* from horizontal.
798.02 - 805.42m (7.40)	Box 244	Limestone: 60% - Argillite: 40% grey to black, micro-crystalline to crystalline, stromatolitic limestone(mounds up to 1.49m) interbedded with grey-green massive argillite, up to 0.53m wide hard, indurated, minor pyrite. At 799.83 pisolitic section 0.29m wide. Frequent argillaceous partings, with splintery and slaty partings. NVP, no shows.	veining, chaotic throughout, with	Bedding 20* -30* from horizontal.

SHEET # <u>53</u>

Date: July 24-25, 1997

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: Core size: HQ

Hole No: BIG SPRING #1

Spud date: May 25, 1997 Completed:

Depth 805.42 - 809.41m (3.99m)	Box 246	Lithology Description  Limestone: 70% - Shale: 30% grey, dark grey, micritic to crystalline, brecciated limestone, interbedded with black shale, hard blocky to subfissile, with smooth silky to silty partings. NVP, no shows.	Fracture / Alteration  Brecciated with dark grey to light grey angular fragments of limestone and occasional argillite fragments, cemented with calcite @ 805.4m,1.24m wide, and @ 808.74m 0.69m wide.	Remarks  Bedding 20* from horizontal.
809.41 - 810.63m (1.22m)	Box 247	Limestone: dark grey to black, micritic, massive, with frequent bird's eye white calcite, occasional fine grained pyrite, paper thin shale partings, silty to micaceous appearance.  NVP, no shows.	Minor hairline calcite	Bedding 20* - 30* from horizontal.
810.63 - 813.49m (2.86)	Box 248	Argillite: grey-green, mssive, hard, indurated, with occasional fine grained and cubic pyrite. Frequent silty partings. NVP, no shows.	Very minor calcite veining.	Bedding 20* - 30* from horizontal.
813.49 - 831.38m (17.89m)	Box 249 250 251	Limestone: dark grey to black, crystalline to coarse crystalline, massive, oolitic limestone, with well developed stylolitic structures. Pisolitic from 813.62-814.76m, occasional intraclasts.	Minor calcite veining parallel and near vertical to bedding. Brecciation @817.82m, 0.46m wide.	Bedding 20* - 40* from horizontal.

SHEET # <u>54</u>
Date: July <u>25</u>, <u>1997</u>

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_Core size: HQ

Hole No:BIG SPRING #1

Spud date: May 25, 1997 Completed:

Depth		Lithology Description	Fracture / Alteration	Remarks
813.49 - 831.38m (17.89m)	Box 252	Limestone: Frequent stylolitic partings, very irregular, sandy to silty. Occasional micritic massive light grey limestone, with paper thin shale partings. NVP, no shows.	From 830.63-831.38 calcite veins perpendicular to bedding.	
831.38 - 837.25m (5.87m)	Box 254	Limestone: grey to dark grey, micro-crystalline to crystalline, massive, very ribbon thin limestone, with paper thin black shale partings. Frequent oolitic sections up to 0.44m wide, occasional irregular schistose partings. NVP, no shows.	Minor white calcite veinlets.	Bedding 30* - 40* from horizontal.
837.25 - 841.12m (3.87m)	Box 256	Limestone: 70% - Shale: 30% grey to dark grey, crypto-crystalline to micro-crystalline, massive limestone, slightly dolomitic, interbedded with black shale, blocky to platy, hard, dense, with minor pyrite, silty-schistose partings. NVP, no shows.	Frequent calcite veining parallel to bedding, also chaotic calcite appearance throughout. Microfaulting and folding only in the black shale.	Bedding 30* - 40* from horizontal.

SHEET # <u>55</u>

Date: July 25-26, 1997

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: Core size: HQ

Hole No: BIG SPRING # 1

Spud date: May 25, 1997 Completed:

Depth	: : :	Lithology Description	Fracture / Alteration	Remarks
841.12 - 842.92m (1.80m)	Box 257	Shale: Black, blocky to platy, dense, silty partings. NVP, no shows.	Intense brecciation from 841.49-842.92m with fragments of limestone and argillite. Abundant white calcite, with micro-faulting and folding.	
842.92 - 846.84m (3.92m)	Box 258	Limestone: Dark grey, micro-crystalline to crypto-crystalline, massive, hard, indurated, oolitic limestone, with well developed stylolitic structures. Frequent interbedded, micritic very dark grey limestone, with paper thin shale partings, crosslaminated, irregular hackly, schistose partings common. NVP, no shows.	Abundant calcite veining parallel to bedding, slight brecciation from 843.60-844.92m	Bedding 40* - 50* from horizontal.
846.84 - 857.82m (10.98m)	Box 259	Limestone: 60% - Shale: 40% grey to dark grey, micritic to micro-crystalline, stromatolitic limestone, interbedded with black, blocky to sub-fissile, dense shale. NVP, no shows.		

SHEET # <u>56</u>
Date: <u>July 26, 1997</u>

Location(NTS.): 2M/4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_Core size: HQ

Hole No. BIG SPRING # 1

Spud date: May 25, 1997 Completed:

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Depth	1. 1	Lithology Description	Fracture / Alteration	Remarks
846.84 - 857.82m (10.98m)	Box F 259 li sl p 260 F s 1	From 846.84-848.94m, imestone with interbedded hale (0.25m wide), with minor byrite, slightly oblitic.  From 848.94-851.10m stromatolitic grey-green imestone, with black shale ayering throughout.	Occasional calcite veining with microfolding.	Bedding 40* - 60* from horizontal.  Bedding 40* - 60* from horizontal.
	261	From 851.10-853.32m, micritic to slightly onlitic limestone, interbedded with black shale up to (0.23m wide) with minor pyrite.  From 853.32-854.76m, black shale, blocky to sub-fissile, hard, dense, calcareous, with frequent cubes of pyrite, platy	Minor calcite parallel to near vertical to bedding.  Frequent calcite veining, with microfolding.	Bedding 30* - 40* from horizontal.  Bedding 20* - 30* from horizontal.
	1	From 854.76-856.90m, grey limestone with interbedded black shale, minor pyrite.  From 856.90-857.67m black	Brecciated zone with abundant calcite	Bedding 40* - 50* from horizontal.
		shale, calcareous, greasy, argillaceous partings.	veining up to (0.11m wide)	Į.

SHEET # <u>57</u>

Date: July 26-27, 1997

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth:\_\_\_\_Core size:HQ

Hole No:BIG SPRING #1

Spud date: May 25, 1997 Completed:

Depth		Lithology Description	Fracture / Alteration	Remarks
857.82 - 862.42m (4.60m)	Box 263	Limestone: grey micritic limestone, with thin black shale partings, interbedded with dark grey, oolitic limestone (up to 0.37m wide), having well developed stylolitic structures. NVP, no shows.	Minor calcite veining near vertical to bedding.	Bedding 40* from horizontal.
862.42 - 895.85m (33.43)	Box	Limestone: dark grey to black, crypto-crystalline to crystalline, hard, dense, mainly massive to finely laminated.  NVP, no shows.		
	264	From 862.42-867.43m, micritic, intraformational conglomerate limestone, bonded in a matrix of black wavy carbonate muds, slump beds common, interbanded black micritic limestone, up to 1cm wide and parallel to bedding.	Abundant microfaulting and folding. Minor calcite vein  @ 864.44m, 0.06m wide. Frequent microfaulting and folding in the black limestone	Bedding 40* - 50* from horizontal.
	265	From 867.43-869.64m, micro- crystalline to crystalline, massive, occasionally bioturbated, with intraclasts.		Bedding 30* - 40* from horizontal.
	266	From 869.64-870.73m, micro- crystalline limestone with black bands of crypto-crystalline limestone, up to 1cm wide.	Frequent micro- faulting and folding.	Bedding 40* from horizontal.

SHEET # 58 Date: July 27, 1997

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_ Core size: HQ

Hole No: BIG SPRING #1

Spud date: May 25, 1997 Completed:

Depth		Lithology Description	Fracture / Alteration	Remarks
862.42 - 895.85m (33.43m)	Box 267	Limestone: From 870.73 - 875.16m, massive, micro-crystalline to crypto-crystalline, occasionally crystalline limestone, with black bands parallel to bedding.  From 875.16-882.78m, dark grey to black, massive, very hard, crypto-crystalline to micro-crystalline limestone, with very thin stylolites running near vertical to	Occasional calcite veining.  Minor calcite veining.	Bedding 60* from horizontal.  Bedding 10* from horizontal.
	270	bedding, irregular, hackly partings.  From 882.78-886.10m, dark grey to black, massive, very hard, crypto-crystalline, occasional stylolites, with black carbonaceous partings.  From 886.10-889.36m, very dark grey, micro-crystalline to crypto-crystalline, massive limestone, with black wavy crypto-crystalline limestone bands. Well developed	Frequent conchoidal fractures. At 884.65m (0.12m wide) calcite vein.  Frequent calcite veining with brecciation and tension gashes. Minor micro-faulting and folding.	Bedding 10* from horizontal

SHEET # 59

Date: July 27-28, 1997

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_Core size: HQ

Hole No: BIG SPRING #1

Spud date: May 25, 1997 Completed:

Depth	Lithology Description	Fracture / Alteration	Remarks
(66.64m)	Box From 889.36-893.64m Limestone, dark grey, massive, micro-crystalline to crypto-crystalline, very hard, indurated slightly intraformational conglomerate limestone, occasional stylolites, black silt carbonaceous partings.		Bedding 10* -30* from horizontal.
	From 893.64-905.20m Oolitic Limestone: coarse crystalline, black, oolitic, very hard, massive, occasional stylolites, with carbonaceous irregular partings.  From 905.20-907.56m Limestone: dark grey to black, micritic, with near vertical tension gashes, filled with crypto-crystalline, black limestone. Frequent stylolites.	Minor calcite veinlets	Bedding 10* -30* from horizontal.  Bedding from 898.04-904.66m 0* - 10* from horizontal.  Bedding 10* - 20* from horizontal.
	<ul> <li>From 907.56 - 908.46m Oolitic Limestone: crystalline dark grey to black, very hard, massive.</li> <li>From 908.46 - 912.40m Micritic Limestone: dark grey to black,</li> </ul>	Minor calcite veining	Bedding 0* - 10* from horizontal.  Bedding 0* - 20* from horizontal.

SHEET # 60 Date: July 28, 1997

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: Core size: HQ

Hole No: BIG SPRING #1

Spud date: May 25, 1997 Completed:

Depth :		Lithology Description	Fracture / Alteration	Remarks
862.42 - 929.06m (66.64m)	278	with very well developed near vertical tension gashes filled with crypto-crystalline black limestone.  From 912.40 - 917.23m Oolitic Limestone: massive dark grey to black, crystalline, very hard.	Frequent calcite veining, mainly parallel to bedding. Occasional tension gashes filled with black cryptocrystalline limestone, cross-cutting calcite veins, near vertical to	Bedding 10* - 20* from horizontal.
	280 281 282 283	From 917.23-926.02m Oolitic Limestone: massive dark grey to black, crystalline to micro-crystalline, carbonaceous partings common.  From 926.02-927.68m Micritic Limestone: dark grey to black, very hard, alternating bands of black cryptocrystalline limestone (1cm wide), parallel to bedding, with frequent carbonaceous partings.		Bedding 0* - 10* from horizontal.  Bedding 0* - 10* from horizontal.

SHEET # <u>61</u>

Date: July 28-29, 1997

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: Core size: HQ

Hole No: BIG SPRING #1

Spud date: May 25, 1997 Completed:

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Depth		Lithology Description	Fracture / Alteration	Remarks
862.42 - 931.35m (68.93m)	Box 283 284	From 927.68-931.35m Limestone: light grey, micritic, occasional fine laminae, well developed fine stylolites, common phyllitic slickensided partings.	Abundant white calcite veining, parallel to bedding. Brecciation common throughout.	Bedding 0* - 20* from horizontal
931.35 - 937.99m (6.64m)	Box 285	Limestone: 60% - Shale: 40% grey, micritic, laminated to cross-laminated, medium hard, interbedded with black shale, sub-fissile to blocky, mediumhard, dense, common ribbon limestone, frequent fine grained and cubic pyrite, greasy, platy schistose partings.  NVP, no shows.	Frequent brecciation zones from 933.07- 934.48 & 936.35- 937.68m. Possible melange zone.	Bedding 10* - 30* from horizontal.
937.90 - 944.77m (6.87m)	Box 287	Oolitic Limestone: 100% dark grey to black, massive, crystalline, very hard, well developed stylolites, infilled with black crypto-crystalline limestone, very irregular schistose partings with carbonaceous coatings. NVP, no shows.	Abundant calcite veining from 937.90- 938.92m, parallel and vertical to bedding.	Bedding 10* - 20* from horizontal.

SHEET # 62

Date: July 29-30, 1997

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation:30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_Core size: HQ

Hole No: BIG SPRING #1

Spud date: May 25, 1997 Completed:

Depth		Lithology Description	Fracture / Alteration	Remarks
944.70 - 949.65m (4.95m)	Box 288	Limestone: 100% dark grey, micro-crystalline, massive to nodular bedded with paper thin black shale, irregular hackly partings, with carbonaceous coatings.  NVP, no shows.	Very minor calcite veining.	Bedding 30* from horizontal.
949.65 - 958.69m (9.04m)	Box 290	Oolitic Limestone: dark grey, crystalline, massive, very hard, recrystallized oolites, with well developed stylolites, infilled with black crypto- crystalline limestone, very irregular slaty partings, occasional fine grained pyrite. From 955.40-955.86m, grey micritic limestone, with greasy phyllitic partings. NVP, no shows.	Occasional calcite veining parallel and near vertical to bedding.  Abundant calcite veining, with microfolding and faulting.	Bedding 10* - 20* from horizontal.
958.69 - 976.21m (17.51m)	Box 292 293 294 295 296 297	Limestone: 100% Oolitic, dark grey to black, massive, very hard, crystalline to coarse crystalline, frequent pisolitic intervals up to (0.44m wide), well developed stylolites mainly parallel to bedding, very irregular hackly - slaty partings NVP, no shows.	7	Bedding 0* - 20* from horizontal.

SHEET # <u>63</u>

Date: July 30-31, 1997

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation:30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_Core size: HQ

Hole No: BIG SPRING #1

Spud date May 25, 1997 Completed:

Depth	Lithology Description	Fracture / Alteration	Remarks
976.21 - 980.58m (4.37m)	Box Shale: 60% - Limestone: 40% Dark grey to grey, slaty to phyllitic, hard, dense, silty-sandy partings, calcareous frequent fine grain & cubic (10mm) pyrite, interbedded with grey micritic limestone, slightly stromatolitic.  NVP, no shows.	Very minor calcite veining.	Bedding 10* - 20* from horizontal.
980.58 - 986.62m (6.04m)	Box Ribbon Limestone with Black Shale. Limestone laminated to cross-laminated, frequent intraclasts, and rip-up clasts, bioturbated, with dark grey Shale-Phyllite, paper thin partings up to 10mm wide, platy to smooth, slickensided, occasionally dense, hard, soft deformation common, minor fine grain pyrite, moderately calcareous, intraformational conglomerate pisolitic interval (0.10m wide) NVP, no shows.	faulting. Brecciation common.	Bedding 10* - 20* from horizontal.
986.62 - 989.42m (2.80m)	Box Limestone: 100% 301 Grey to grey-green, micritic, slightly dolomitic, stromatolit with common interbedded dark grey shale,	Minor calcite veining occasional micro- c, folding. Fault gouge (argillaceous), 0.10m wide @ 986.62m.	from horizontal.

SHEET # <u>64</u> Date: <u>July 31, 1997</u>

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: Core size: HQ

Hole No: BIG SPRING #1

Spud date: May 25, 1997 Completed:

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Depth	3.5	Lithology Description	Fracture / Alteration	Remarks
986.62 - 989.42m (2.80m)	Box 301	irregular silty partings, NVP, no shows.		
989.42 - 997.59 (8.08m)	Box 302	Ribbon Limestone - with Black Shale. grey to dark grey, micritic, limestone, laminated to crosslaminated, frequent intraclasts, rip-up clasts, slightly stromatolitic, interbedded with shale-phyllite, dark grey-black, hard, sub-fissile to blocky, abundant argillaceous partings, with smooth-silky phyllitic partings, fine grained pyrite. At 994.25m, fault gouge, 10mm wide. NVP, no shows.	Frequent calcite veining parallel and near vertical to bedding. Brecciation @ 995.13 & 996.15m	Bedding 10* - 30* from horizontal.
997.50 - 1004.61 (7.11m)	Box 304	Oolitic Limestone: 100% massive, dark grey, very hard, crystalline to coarse crystalline, occasional pisolites, well developed stylolites, mainly parallel to bedding, with paper thin partings.  NVP, no shows.	Abundant calcite veining parallel and near vertical to bedding. White crystalline calcite veins @ 998.93m (0.09m wide), &, at 999.16m, (0.28m, wide).	Bedding 10* - 30* from horizontal.

SHEET # <u>65</u> Date: <u>Aug 1, 1997</u>

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: Core size: HQ

Hole No: BIG SPRING #1

Spud date: May 25, 1997 Completed:

Depth	`s	Lithology Description	Fracture / Alteration	Remarks
1004.6 - 1014.96m (10.36m)	307 308 309	Oolitic Limestone: massive, dark grey to grey, very hard, crystalline to coarse crystalline, interbedded with micritic, grey limestone, well developed stylolites, with shale partings up to 3mm wide, mainly parallel to bedding, interbedded shale from 1006.17 to 1007.05m. NVP, no shows.	Frequent calcite veining parallel and near vertical to bedding. Brecciation @ 1006.62m (0.44m wide).	
1014.96- 1020.34 (5.38m)	Box 310	Ribbon Limestone: & Black Shale - Phyllite. micritic, grey, laminated to cross-laminated, intraclasts, slightly intraformational conglomerate, interbedded with dark grey to black Shale-Phyllite, hard, dense, hackly-flaky, smooth-waxy partings, soft deformation common, calcareous. NVP, no shows.	Occasional calcite veining, mainly parallel to bedding.	Bedding 20* - 30* from horizontal.
1020.34 - 1023.57 (3.23m)	Box 312	Pisolitic Limestone: grey, micro-crystalline to crystalline, massive, hard, minor stylolites, flaky phyllitic partings common. NVP, no shows.	Occasional white calcite veining parallel to near vertical to bedding. Minor brecciation @ 1021.55m (0.20m wide.	Bedding 20* from horizontal.

SHEET # <u>66</u> Date: <u>Aug 1, 1997</u>

Location(NTS.): 2 M /4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: Core size: HQ

Hole No:BIG SPRING #1

Spud date: May 25, 1997 Completed:

Depth		Lithology Description	Fracture / Alteration	Remarks
1023.57 - 1027.87 (4.30m)	Box 313	Ribbon Limestone: - Shale - Phyllite: micritic, grey, laminated to cross-laminated, intraclasts, frequent rip-up clasts. shale-phyllite, black to grey, dense, blocky to sub-fissile, minor fine grained pyrite, some soft deformation, smooth argillaceous partings. NVP, no shows	Abundant white calcite veining, with frequent complex micro-faulting and folding. Brecciation @ 1026.47m, (0.52m wide).	from horizontal
1027.87 - 1036.33 (8.46m)	Box 314	Limestone: 60% - Shale: 40% parted and ribbon limestone, dark grey to grey, micritic, intraformational conglomerate, abundant intraclasts & rip-up clasts, stromatolitic @ 1036.56 (0.26m wide), nodular bedding in a matrix of black shale common, slightly dolomitic, interbedded with black shale-phyllite, dark grey, sub-fissile to blocky, hard, dense, slump beds, rhythmitic layering of Limestone-Shale common. NVP, no shows.	Occasional white calcite veining parallel to bedding. Brecciation @ 1030.43m (0.15m wide).	Bedding 30* - 40* from horizontal.

SHEET # <u>67</u>

Date: Aug. 2, 1997

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_Core size: HQ

Hole No: BIG SPRING #1

Spud date: May 25, 1997 Completed:

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Depth	Lit	thology Description	Fracture / Alteration	Remarks	
1036.33 - 1047.37 (11.04m)	Box Lim 317 From dark intra Abu clas cros @10 nod with bloo part	nestone: 60% - Shale: 40% m 1036.30-1040.65m k grey limestone, micritic, aformational conglomerate, undant intraclasts & rip-up sts, slightly stromatolitic, ss-bedding, oolitic 039.69 (0.34m wide), lular bedded, interbedded h black shale-phyllite, cky, flaky-greasy partings, ted limestones common.	Abundant white calcite in a chaotic structure. Veining parallel & near vertical to bedding, micro-folding & faulting common.  Minor calcite veining	Bedding 20* - 30* from horizontal.  Bedding 35* from horizontal.	
	in a NV	nestone, grey, nodular bedded a martix of black shale.  P, no shows.  om 1043.13-1047.35m  clange zone:  ack shale-phyllite & parted nestone.  ale-phyllite sub-fissile to ocky, dense, up to 0.63m  de, interbedded with micritic nestone, slightly oolitic, traclasts & rip-up clasts, casional nodular bedding.	Abundant white calcite veining. Brecciated throughou with angular fragments in a white carbonate matrix.		

SHEET # 68

Date: Aug. 2, 1997

Location(NTS:): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_ Core size: HQ

Hole No: BIG SPRING #1

Spud date: May 25, 1997 Completed:

		:		
Depth :		Lithology Description	Fracture / Alteration	Remarks
1047.35 - 1055.97 (8.62m)	Box 320 321	Shale: 60% - Limestone: 40% shale-phyllite, dark grey, blocky to sub-fissile, dense, hard, with smooth, waxy partings, interbedded with parted and ribbon limestone, micritic, slightly dolomitic, intraclasts, slump beds common, minor pyrite. NVP, no shows.	White calcite veining parallel and near vertical to bedding. Intense brecciation @ 1048.34m (0.59m wide),& @ 1053.29m (0.68m wide) cemented with very fine calcite.	Bedding 30* from horizontal.
1055.97 - 1059.20 (3.23m)	Box 323	Ribbon - Parted Limestone: with Black Shale-Phyllite. (Melange) limestone, micritic, laminated, abundant intraclasts and rip-up clasts, grey nodular bedding, interbedded with very dark to black, shale-phyllite, blocky, dense, hackly-sub-fissile. NVP, no shows.	Abundant white calcite veining parallel and near vertical to bedding. Brecciation frequent with a chaotic appearance in the white carbonate.	Bedding 30* from horizontal.

SHEET # 69

Date: Aug. 2-3, 1997

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_Core size: HQ

Hole No:BIG SPRING #1

Spud date: May 25, 1997 Completed:

Depth		Lithology Description	Fracture / Alteration	Remarks
1059.20 - 1066.79 (7.59m)	Box 324	Melange (Major Thrust Fault)	Intense Limestone - Shale brecciation,	Bedding mainly 30* from
		Shale: 60 % - Limestone: 40% Parted Limestone with interbedded Black Shale- Phyllite: limestone micritic, nodular bedding, parted,	with complex faulting and folding, infilled with abundant ribbon white calcite and minor quartz in a	horizontal, but occasionally up to 50* from horizontal.
	325	frequent intraclasts and rip- up clasts, abundant soft deformation structures, interbedded shale-phyllite, black, blocky, hard, dense,	chaotic display. Fragmental limestone common. Veining parallel to near vertical to bedding.	
		splintery, slickensided partings.  NVP, no shows		
1066.79 - 1093.61 (26.82m)	Box	Limestone: Parted & Ribbon Limestone with interbedded Shale - Phyllite.		
	326	From 1066.79-1072.67m dark grey -black, shale-phyllite, hard, dense, blocky, silty, slickensided, with occasional interbeds of parted & ribbon dark grey, micritic, limestone,	parallel to bedding. Abundant micro- folding and faulting. Chaotic display of	Bedding 10* - 20* from horizontal.
	327	intraclastic, rip-clasts common. NVP, no shows.	very fine ribbon white calcite.	

SHEET # 70

Date: Aug. 3, 1997

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_Core size: HQ

Hole No:BIG SPRING #1

Spud date: May 25, 1997 Completed:

Depth		Lithology Description	Fracture / Alteration	Remarks
1066.79 - 1093.61 (26.82m)	Box 328	Limestone: Shale  From 1072.67-1076.79m limestone: dark grey, micritic, cross-bedded, intraclastic, rip-up clasts, abundant soft deformation, occasional parted limestone, 2cm wide, with interbeds of black shale 1cm wide, slightly stromatolitic.  NVP, no shows.	Frequent calcite veining parallel to near vertical to bedding. Occasional brecciation.	Bedding 10* - 20* from horizontal.
	329	From 1076.79-1078.88m limestone: grey, nodular bedded in a fine lined matrix of black shale, intraformational conglomerate limestone. NVP, no shows.	Very strongly brecciated with complex folding and faulting, in a matrix of white calcite and black shale.	Bedding 20* from horizontal.
	330	From 1078.88 - 1083.66m parted & ribbon limestone interbedded with black shale-phyllite, up to 3cm wide. Limestone dark grey, micritic, intraclastic, with abundant ripup clasts & soft deformation, slightly intraformational conglomerate, shale-phyllite, splintery to flaky, slickensided partings. NVP, no shows.	Abundant white calcite veining with a chaotic display of white calcite throughout. Frequent complex folding - faulting. Brecciated limestone common	Bedding 20* - 40* from horizontal.

**SHEET #71** 

Date: Aug. 3-4, 1997

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation:30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_ Core size: HQ

Hole No: BIG SPRING #1

Spud date: May 25, 1997 Completed:

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Depth		Lithology Description	Fracture / Alteration	Remarks
1066.79 - 1093.61 (26.82m)	Box 331 332 333	Limestone: - Shale From 1083.66 - 1093.61m Shale: 70% - Limestone: 30% shale-phyllite, dark grey-black, hard, dense, blocky to splintery, greasy-slickensided, interbedded with light grey limestone, micritic, brecciated, parted limestone, and nodular bedded, up to 0.68m wide. Shale-phyllite from 1090.97- 1093.18m (2.21m), minor pyrite. NVP, no shows.	Abundant calcite veining parallel to near vertical, in a chaotic display. Intense brecciation @1084.52 (0.68m wide), & @ 1088.89 (0.90m wide). Small fault zone @ 1084.52m with calcite crystals filling vugs, (0.20m wide) minor pyrite.	Bedding 20* - 40* from horizontal.
1093.61 - 1099.61 (5.99m)	Box 334	MARCH POINT FM. (equivalent)  Limestone: 100% grey, massive, micritic to crystalline, nodular bedded, with paper thin shale partings, splintery-platy, slickensided. NVP, no shows.	Minor calcite veining mainly parallel to bedding.	Bedding 20* - 30* from horizontal.
1099.61 - 1100.70 (1.10m)	Box 336	Oolitic Limestone: dark grey, massive, with occasional fine stylolites and paper thin shale partings.  NVP, no shows.	Abundant calcite veining parallel to near vertical to bedding.	Bedding 10* from horizontal.

SHEET # <u>72</u>

Date: Aug. 4, 1997

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_ Core size: HQ

Hole No: BIG SPRING #1

Spud date: May 25, 1997 Completed:

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Depth	r fg.	Lithology Description	Fracture / Alteration	Remarks
1100.70 - 1102.96 (2.26m)	Box 336	Shale-Phyllite: with Limestone. dark grey to black shale-phyllite with parted limestone, blocky to sub-fissile, silty-splintery partings. NVP, no shows.	Minor white calcite veining mainly parallel to bedding.	Bedding 10* - 20* from horizontal.
1102.96 - 1104.33 (1.37m)	Box 337	Parted-Ribbon Limestone & interbeds Shale-Phyllite. limestone micritic, dark grey, intraclastic, interbedded with black shale-phyllite, up to 2cm wide, blocky, hard, smooth, greasy partings. NVP, no shows.	Occasional calcite veining mainly parallel to bedding.	Bedding 20* - 30* from horizontal.
1104.33 - 1106.36 (2.03m)	Box 338	Oolitic Limestone: massive, grey, hard, indurated, pisolitic, slightly nodular bedded, occasional stylolites with paper thin shale partings. NVP, no shows.	Minor calcite veining parallel to bedding.	Bedding 30* from horizontal.
1106.36 - 1119.25 (12.89m)	Box 338	Parted & Ribbon Limestone with Oolitic Limestone.  NVP, no shows.		
		From 1106.36-1107.48m parted limestone with interbeds of black shale-phyllite up to 1cm wide, intraclastic, with abundant rip-up clasts.		Bedding 20* - 30* from horizontal.

SHEET # <u>73</u>

Date: Aug. 4, 1997

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_ Core size: HQ

Hole No:BIG SPRING #1

Spud date: May 25, 1997 Completed:

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Depth	Lithology Description	Fracture / Alteration	Remarks
1106.36 - 1123.62 (17.26m)	Box From 1107.48 - 1107.94m Oolitic limestone, massive, of grey, hard, indurated.  339 From 1107.94 - 112.35m Parted - nodular limestone will black shale-phyllite, up to 0.14m wide, slightly oolitic, micritic, grey, irregular splintery shale-phyllite parti	Abundant white calcite veining. Intense brecciation with angular fragments of limestone cemented	
	340 From 1112.35 - 1117.06m Limestone, stylo-nodular, w massive, dark grey, micro- crystalline, with paper thin, hackly, greasy shale-phyllite partings.	veining.	Bedding 30* from horizontal.
	From 117.06 - 1123.62m Parted -Ribbon Limestone v interbedded Shale-Phyllite. and Oolitic Limestone interv up to 0.47m wide. parted limestone is micritic, nodular bedded, grey, intraclastic, oolitic limeston massive, crystalline, hard, indurated. NVP, no shows.	parallel to near vertical to bedding. Brecciation throughout but intense @1119.51m (0.39m	Bedding 30* - 40* from horizontal

SHEET # <u>74</u>

Date: Aug. 4-5, 1997

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_Core size: HQ

Hole No: BIG SPRING #1

Spud date: May 25, 1997 Completed:

Depth		Lithology Description	Fracture / Alteration	Remarks
1123.62 - 1136.90 (13.28m)	Box 344	Limestone: 60% - Shale: 40% From 1123.62 - 1130.02m Parted limestone, micritic, dark grey, intraformational conglomerate, intraclastic, abundant rip-up clasts, interbedded with black shale-phyllite, dense, hard, blocky, up to 0.36m wide. Smooth greasy partings, minor fine grained pyrite. NVP, no shows.	Frequent calcite veining parallel to near vertical to bedding. Chaotic display of white carbonate common. Intense brecciation @ 1128.93m (0.86m wide).	Bedding 20* - 30* from horizontal.
	345	From 1130.02 - 1133.34m Shale - Phyllite, dense, dark- grey, black, hard, blocky-hackly slickensided partings, minor pyrite, paper thin ribbon grey limestone. NVP, no shows.	Occasional calcite veining mainly parallel to bedding. Minor micro-folding.	Bedding 20* - 40* from horizontal.
	346	From 1133.34 - 1135.15m Limestone: 50% - Shale: 50% grey, micritic, pisolitic, slightly nodular, intraclasts, interbedded with grey-green shale-phyllite, calcareous, blocky to sub-fissile platy, silty argillaceous partings	Occasional calcite veining mainly parallel to bedding. Brecciation @ 1134.43m, (0.72m wide).	Bedding 30* - 50* from horizontal
	347	From 1135.15 - 1136.90 Shale - Phyllite dense, dark grey to black, hard, blocky-platy, smooth, occasional fine grained pyrite.	Occasional calcite veining mainly parallel to bedding.	Bedding 20* - 40* from horizontal.

SHEET # <u>75</u> Date: <u>Aug. 5, 1997</u>

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: Core size: HQ

Hole No: BIG SPRING #1

Spud date: May 25, 1997 Completed:

Depth	100	Lithology Description	Fracture / Alteration	Remarks
1136.90 - 1140.79 (3.89m)	Box 348	Oolitic Limestone: dark grey, massive, micro- crystalline to crystalline, occasional stylolites with paper thin argillaceous partings, parallel to bedding. NVP, no shows.	Abundant calcite veining parallel, cross-cutting, and near vertical to bedding. Moderately brecciated.	Bedding 20* - 30* from horizontal.
1140.79 - 1146.43 (5.64)	Box 349	Parted & Ribbon Limestone - interbedded with Shale-Phyllite. Parted-ribbon limestone, grey, micritic, intraclastic, rip-up clasts, slump beds, interbedded with dark grey-black, shale-phyllite, up to 0.25m wide, dense, blocky-platy, smooth partings, occasional oolitic limestone @ 1144.30m, 0.51m wide.	Frequent calcite veining, mainly parallel to bedding. Micro-folding common.	Bedding 20* - 30* from horizontal.
1146.43 - 1153.84 (7.41m)	Box 351	Oolitic Limestone: brecciated, grey to dark grey, massive, micro-crystalline to crystalline, with well developed stylolites, with very thin argillaceous partings. NVP, no shows.	Intensely brecciated from 1146.43 - 1150.08m, angular fragments cemented with white carbonate.	Bedding 20* - 30* from horizontal.
1153.84 - 1154.29 (0.45m)	Box 352	Shale - Phyllite: green-grey shale-phyllite interbedded with dark green Chert stringers, 2cm wide.		Bedding 40* from horizontal.

SHEET # <u>76</u>

Date: Aug. 5, 1997

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: Core size:HQ

Hole No: BIG SPRING # 1

Spud date: May 25, 1997 Completed:

. 11					
	Depth		Lithology Description	Fracture / Alteration	Remarks
No.	1153.84 - 1155.84 (2.00m)	Box 353	Shale - Phyllite: dark grey to black, dense, hard, blocky-hackly, smooth slickensided partings, with occasional parted and ribbon limestone, minor pyrite.	Calcite veining parallel to bedding.	Bedding 20* - 30* from horizontal.
	1155.84 - 1157.10 (1.26m)	Box 353	Shale - Phyllite: green grey, dense, very hard, blocky-platy, silty partings. NVP, no shows.	Minor calcite veining.	Bedding 10* - 20* from horizontal.
	1157.10 - 1162.53 (5.43m)	Box 354	Oolitic Limestone: massive, dark grey, very hard, siliceous, with well developed stylolites, parallel to bedding and paper thin argillaceous partings, brecciated throughout. NVP, no shows.	Intense brecciation from 1157.10 - 1158.52m, very strongly cemented with white buff carbonate.	Bedding 10* - 20* from horizontal.

SHEET # <u>77</u>
Date: <u>Aug. 6, 1997</u>

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: Core size:HQ

Hole No: BIG SPRING #1

Spud date: May 25, 1997 Completed:

Depth		Lithology Description	Fracture / Alteration	Remarks
1162.53 - 1191.46 (28.93m)	Box 356 357 358 360 361 362 363	Oolitic Limestone: dark grey-black, massive, micro-crystalline to crystalline, very hard, indurated, well developed stylolites, mainly parallel to bedding, breaking splintery-irregularly, with carbonaceous coatings. occasionally micritic, light grey very hard. Fine to coarse oolitic intervals, slightly pisolitic.  From 1184.24 - 1184.68m irregular partings with graphite- carbonaceous coatings, slickensided. NVP, no shows.	Frequent calcite veining throughout, mainly parallel to bedding, occasionally near vertical. Brecciation @ 1171.08m, (0.61m wide), @ 1178.71m, (0.45m wide), @ 1185.34 to 1190.86m, cemented with white, fine grained carbonate.	NOTE: Total gas units @ 1184.39m, 287 units. @ 1184.99m=287 units @ 1184.70m=34 units @ 1185m=41units. Probably from stylolitic partings.
1191.46 - 1194.37 (2.91m)	Box 364	Siltstone: dark grey, dense, massive, hard indurated, blocky-splintery, earthy partings with frequent thin flakes of pyrite, weakly calcareous. Occasional pyrrhotite and pyrite throughout NVP, no shows.	Very minor calcite veining.	Bedding 10* - 20* from horizontal.

SHEET # <u>78</u>

Date: Aug. 6-7, 1997

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation:30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: Core size: HQ

Hole No: BIG SPRING #1

Spud date: May 25, 1997 Completed:

Depth	s:	Lithology Description	Fracture / Alteration	Remarks
1194.37 - 1205.46 (11.09m)	Box 365 366 367	Parted & Ribbon Limestone with Black Shale-Phyllite. limestone, micritic, crossbedded, intraclastic, rip-up clasts, occasional slump beds, abundant soft deformation structures interbedded with black shale-phyllite, up to 0.36m wide, hard, dense, blocky-platy, smooth greasy partings, occasional pyrite. NVP, no shows.	Occasional calcite veining, mainly parallel to bedding with micro-folding and faulting common. Frequent complex micro-folding.	Bedding 0* - 20* from horizontal.
1205.46 - 1209.27 (3.81m)	Box 369	Oolitic Limestone: dark grey-black, massive, very hard, indurated, well developed stylolites, mainly parallel to bedding, with paper thin black carbonaceous partings, breaking irregular to splintery. Slightly re-crystallized to Marble.	Abundant white calcite veining parallel to near vertical to bedding Brecciation throughout.	Bedding 10* - 20* from horizontal.
1209.27 - 1211.27 (2.00m)	Box 370	Shale - Phyllite with Ribbon-Parted Limestone: green-grey, shale-phyllite, very hard, dense, blocky-platy, with fine grained pyrite, interbedded with micritic, grey ribbon - parted limestone. NVP, no shows.	Minor calcite veining, mainly parallel to bedding.	Bedding 20* - 30* from horizontal.

SHEET # <u>79</u>

Date: Aug. 7, 1997

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: Core size: HQ

Hole No: BIG SPRING #1

Spud date: May 25, 1997 Completed:

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Depth	, it es,	Lithology Description	Fracture / Alteration	Remarks
1211.27 - 1220.96 (9.69m)	Box	Oolitic Limestone - Marble NVP, no shows.	Eraguant calaita	Bedding 0* - 10*
	371	From 1211.2 -1213.88 (2.61m) dark grey to black, microcrystalline to crystalline, massive, fine oolitic limestone, with well developed stylolites parallel to bedding, paper thin irregular partings with carbonaceous coatings.	Frequent calcite veining parallel and near vertical to bedding. Occasional brecciation cemented with white carbonate.	from horizontal.
		From 1213.88-1216.56 (2.68m) Marble: light grey to white, micro-crystalline to crypto - crystalline, relict limestone textures, frequent oolites, black wavy streaks throughout, occasional stylolites.	Abundant white calcite veining in a chaotic display.	Bedding 0* - 10* from horizontal.
		From 1216.56-1217.42 (0.86m) dark grey-black, massive, limestone, very hard, crystalline to crypto-crystalline, faintly oolitic, occasional stylolitic.	Brecciated throughout	Bedding 40* - 50* from horizontal.
	372	From 1217.42-1218.61 (1.19m) light grey to white, microcrystalline to crypto-crystalline marble, with dark grey wavy laminae.	Abundant microfolding and faulting.	Bedding 10* - 20* from horizontal.

SHEET # 80

Date: Aug. 7-8, 1997

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: Core size: HQ

Hole No: BIG SPRING # 1

Spud date: May 25, 1997 Completed:

Depth	Ç. Mey .	Lithology Description	Fracture / Alteration	Remarks
1211.27 - 1220.96 (9.69m)	Box 372	From 1218.61-1219.49 (0.88m) dark grey-black, massive, limestone, very hard, frequently oolitic, irregular partings with	Minor calcite veining.	Bedding 20* - 30* from horizontal.
1	ាំ្រ ប	slickensides.		
		From 1219.49-1220.96 (1.47m) light grey-white to dark grey, limestone-marble, massive, slightly oolitic, wavy white-	Minor calcite veining.	
		black bands.		
1220.96 - 1234.93 (13.77m)	Box 373	Dolostone: Brecciated dark grey-black, massive, very hard, abundant to occasionally	Fault Zone: highly fractured and	From 1225.43- 1230.28 (4.85m). Bedding 60* - 80*
	374	oolitic, calcareous, minor vugs, fine crystalline to micro-	fragmental. Loosely consolidated and weakly cemented	from horizontal.
t in exektion to a second	376	crystalline, cemented with cream calcareous muds. Highly fractured and splintery, well	with fine calcareous fault gouge.	From 1230.28-
	377	polished slickensides common. Stylolitic from 1233.60- 1234.73m. NVP, no shows.	Abundant slickensides from 1225.43-1230.28m, Highly polished.	1234.73 (4:45m). Bedding 30* from horizontal.

SHEET # <u>81</u>

Date: Aug. 8, 1997

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_Core size: HQ

Hole No: BIG SPRING #1

Spud date: May 25, 1997 Completed:

Depth		Lithology Description	Fracture / Alteration	Remarks
1234.98 - 1247.47 (12.54m)	Box 377	MARCHE POINT Fm. (equivalent)		
	378	Limestone: Oolitic grey to dark grey, massive, very hard, micro-crystalline to crystalline, fine to coarse oolites.		
	379	From 1234.93-1242.56 (7.63m) frequent stylolites, parallel to bedding, irregular partings with black carbonaceous coatings.	From 1234.93- 1242.56 (7.63m) Brecciated limestone with angular fragments, well cemented with fine grained carbonate muds. Chaotic display throughout.	Bedding 20* - 30* from horizontal
	380	From 1242.56-1247.47 (4.91m) limestone: dark grey-black, massive, fine oolites, frequently stylolitic, very irregular partings with paper thin carbonaceous coatings, no brecciation NVP, no shows.	parallel to bedding.	Bedding 10* - 20* from horizontal.

SHEET # 82

Date: Aug. 8-9, 1997

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_Core size: HQ

Hole No:BIG SPRING #1

Spud date: May 25, 1997 Completed:

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	Depth 1247.47 - 1254.38	Box	Lithology Description  Limestone: Micritic: Brecciated	Fracture / Alteration Frequent calcite	Remarks  Bedding 0* - 20*
	(6.91m)	381 382 383	massive, grey-dark grey, micritic, very hard, slightly peloidal, fine laminae, with very paper thin black partings, frequent rip-up clasts, intraclastic, occasional stylolites, breaking irregular, with carbonaceous coatings. NVP, no shows.	veining mainly parallel to bedding. Finely brecciated with angular fragments, very well cemented with white carbonate muds.	from horizontal.
	1254.38 - 1259.84 (5.46m)	Box 384 385	Limestone: Oolitic massive, grey to dark grey, very hard, indurated, micro-crystalline to crystalline, frequent stylolites, with paper thin irregular partings and carbonaceous coatings, alternating bands of micritic limestone (1-2cm wide), intraclastic. NVP, no shows.	Frequent white carbonate veining, parallel and vertical to bedding.	Bedding 0* - 10* from horizontal.
	1259.84 - 1262.23 (2.39m)	Box 386	Shale-Phyllite: - Parted Limestone: dark grey to black, dense, very hard, blocky to platy, silty partings, interbedded with parted limestone, micritic, intraclastic, cross-bedding, with slump beds. NVP, no shows.	Abundant calcite veining, parallel to near vertical to bedding. Brecciated @ 1260.85 (0.30m wide). Frequent micro folding & faulting.	Bedding 20* - 40* from horizontal.

SHEET # <u>83</u>

Date: Aug. 9, 1997

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: Core size:HQ

Hole No: BIG SPRING #1

Spud date: May 25, 1997 Completed:

Depth		Lithology Description	Fracture / Alteration	Remarks
1262.23 - 1275.80 (13.57m)	Box 387 388 389	Limestone: Oolitic to Micritic: dark grey to grey, massive, micro-crystalline to crystalline, very hard, coarse to fine oolites with well developed stylolites, mainly parallel to bedding, paper thin irregular partings, with carbonaceous coatings, interbanded with micritic limestone, up to 5cm wide. From 1274.08-1275.80m, increase banding of fine oolitic limestone with very dark grey micritic limestone. NVP, no shows.	Frequent calcite veining, mainly parallel, but occasionally, vertical to bedding.	Bedding 10* - 20* from horizontal.
1275.80 - 1280.21 (4.41m)	Box 391	Parted Limestone with Black Shale-Phyllite: dark grey to black, dense, hard, blocky-platy, silty partings, with carbonaceous coatings, interbedded with parted & ribbon limestone, micritic, slump beds, intraclasts, cross- bedding, occasional fine oolites, up to 4cm wide. NVP, no shows.	Minor calcite veining near vertical to bedding.	Bedding 0* - 10* from horizontal.

SHEET # 84

Date: Aug. 9-10, 1997

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_Core size: HQ

Hole No: BIG SPRING #1

Spud date: May 25, 1997 Completed:

Depth	- Contr	Lithology Description	Fracture / Alteration	Remarks
1280.21 - 1288.08 (7.87m)	Box 392 393	Oolitic Limestone: massive, dark grey-black, micro-crystalline to crystalline, very hard, indurated, occasional stylolites, but well developed, with very irregular partings, carbonaceous coatings fine to medium oolites, occasional rip-up clasts. NVP, no shows.	Frequent calcite veinlets near vertical to bedding. Occasional brecciation @ 1282.94 (0.49m wide).	Bedding 0* - 10* from horizontal.
1288.08 - 1305.31 (17.23m)	394 395	Parted & Ribbon Limestone with Black Shale-Phyllite micritic, grey to dark grey, cross-bedding, slump beds, intraclastic, rip-up clasts, with black shale-phyllite, dense hard, silty partings, up to 4cm wide.		Bedding 10* - 40* from horizontal.
	396	From 1289.60-1290.20 (0.60m) fine oolitic limestone, massive, occasional stylolite, but very well developed.  NVP, no shows.	Frequent calcite mainly parallel to bedding.	
	397	From 1297.66-1300.04, (2.38m) black shale-phyllite, up to 0.09m wide, interbedded with micritic limestone, up to 0.10m wide, slightly stylolitic.	Abundant calcite veining mainly parallel to bedding.	Bedding 40* from horizontal

SHEET # 85

Date: Aug. 10-11, 1997

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: Core size: HQ

Hole No:BIG SPRING #1

Spud date: May 25, 1997 Completed:

Depth		Lithology Description	Fracture / Alteration	Remarks
1288.08 - 1305.31 (17.23m)	Box 398	From 1300.04-1300.75 (0.71m) fine oolitic limestone, occasional stylolites, but very irregular and well developed.	Calcite veining near vertical.	Bedding 0* - 10* from horizontal
	399	From 1300.75-1305.31 (4.56m) parted limestone, micritic to slightly oolitic, interbedded with black shale-phyllite, (2-3cm wide).		Bedding 10* - 20* from horizontal.
1305.31 - 1312.83 (7.52m)	Box 400	Oolitic Limestone: massive, dark grey to black, fine to medium oolites, very hard, indurated, frequent stylolites, with very irregular partings and carbonaceous coatings. NVP, no shows.	Occasional calcite veining, near vertical to bedding.	Bedding 0* - 10* from horizontal.

SHEET # 86

Date: Aug. 11-12, 1997

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_\_Core size: NQ=46mm

Hole No: BIG SPRING #1

Spud date: May 25, 1997 Completed:

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Depth	s fig. 1	Lithology Description	Fracture / Alteration	Remarks
1312.83 - 1329.55 (16.72m)	402   1   1   403   (   404   (   i	March Point Fm. (equivalent) NOTE: Began coring with NQ =46mm @ 1312.83m  Oolitic Limestone: dark grey to black, massive, frequent stylolites, very irregular partings, with graphite and carbonaceous coatings.	Frequent calcite veining, mainly vertical to bedding.	Bedding 0* - 10* from horizontal.
	406 s	From 1322.69 -1326.13 (3.44m) fine oolites, occasional stylolites with mainly paper thin irregular partings, slightly micritic. NVP, no shows.	Calcite veining mainly parallel to bedding, up to 2cm wide.	Bedding 10* - 30* from horizontal.
1329.55 - 1353.09 (23.54m)	407   a 408   d 1 408   d 1 1	Parted-Ribbon Limestone: and Shale-Phyllite: parted-ribbon limestone, grey to dark-grey, micritic, hard, crossbedded, slightly intraclastic & colitic, interbedded with shale-phyllite, black, blocky-platy, hard, dense, calcareous.  NVP, no shows.	Minor calcite veining from 1329.55-1337.15m.	Bedding 20* - 35* from horizontal.

SHEET # <u>87</u>

Date: Aug. 12, 1997

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_Core size: NQ

Hole No: BIG SPRING #1

Spud date: May 25, 1997 Completed: Logged by: Roland Strickland

Drilled by: East Coast Drilling

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	Depth		Lithology Description	Fracture / Alteration	Remarks
The second secon	1329.55 - 1353.09 (23.54m)	Box 409	From 1337.15-1341.09 (3.94m) mainly black shale-phyllite, with minor parted limestone.	Abundant calcite veining, mainly parallel to bedding.  @ 1338.16m quartz-carbonate vein (0.53m wide).	Bedding 35* from horizontal.
		410	From 1341.09-1343.23 (2.14m) grey-green, shale-phyllite, interbedded, with black shale-phyllite & minor parted-ribbon limestone.	Frequent calcite veining mainly parallel to bedding.	Bedding 20* - 40* from horizontal.
		411	From 1343.23-1348.65 (5.42m) black shale-phyllite, blocky-sub-fissile, medium hard, dense, highly calcareous, with paper thin ribbon limestone and occasional parted limestone, frequent fine grained pyrite, smooth partings.  NVP, no shows.	Frequent calcite veining mainly parallel to bedding. Micro-folding & faulting common.	Bedding 10* - 20* from horizontal.
		413	From 1348.65-1353.09 (4.44m) parted & ribbon limestone interbedded with black shale-phyllite, cross-bedded, slump beds, intraformational conglomerate, slightly oolitic.	Minor calcite veining parallel to bedding. Brecciated shale & limestone @ 1348.65m, (0.36m wide).	Bedding 0* - 10* from horizontal.

SHEET # 88

Date: Aug. 12-13, 1997

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation:30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_ Core size: NQ

Hole No: BIG SPRING #1

Spud date: May 25, 1997 Completed:

	Depth		Lithology Description	Fracture / Alteration	Remarks
1353	3.09 - 1355.38 (2.29m)	Box 414	Oolitic Limestone: massive, grey to dark-grey, fine oolites, slightly micritic, occasional stylolites, vertical to bedding, NVP, no shows.	Frequent calcite veining parallel and near vertical to bedding. Brecciation @ 1354.31m (0.43m wide).	Bedding 20* - 30* from horizontal.
1355	5.38 - 1365.74 (10.36m)	Box 415 416 417	Parted Limestone with Black Shale - Phyllite: parted limestone, micritic, hard, cross-bedded, with frequent interbeds of fine micritic limestone, massive, slump beds, shale-phyllite partings paper thin to 1cm wide, medium hard argillaceous greasy, smooth, medium hard, minor pyrite. NVP, no shows.	Frequent calcite veining parallel and near vertical to bedding. Brecciation @1361.71m (4cm wide), & @1362.10m 0.11m wide)	Bedding 0* - 10* from horizontal.
1	5.74 - 1375.91 (3.63m)	Box 418 419 420	Micritic Limestone: massive to slightly laminated, grey, hard, intraclasts, cross- bedded, with frequent oolite intervals up to 0.80m wide. Occasional stylolites from parallel to near vertical to bedding, interbedded shale- phyllite up to 2cm wide. NVP, no shows.	Minor calcite veining parallel and near vertical to bedding. Minor faulting and folding.	Bedding 20* - 40* from horizontal.

SHEET # 89

Date: Aug. 13, 1997

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

Total Depth: \_\_\_\_\_ Core size: NQ

Hole No:BIG SPRING #1

Spud date: May 25, 1997 Completed:

	T			
Depth		Lithology Description	Fracture / Alteration	Remarks
1375.91 - 1379.54 (3.63m)	Box 421	March Point Fm. (equivalent)  Oolitic Limestone: massive, grey to dark-grey, micro-crystalline to crystalline, hard, dense, fine to medium oolites, frequent stylolites parallel to bedding with paper thin irregular partings, minor pyrite. NVP, no shows.	Minor calcite veining parallel to bedding @1378.54m. Fault Zone with clear crystalline calcite lining small veins. Mechanical break up of core from 1379.35 to 1379.35m	Bedding 20* - 40* from horizontal.
1379.54 - 1381.82 (2.28m)	Box 422	Parted -Ribbon Limestone with Black Shale-Phyllite: micritic, cross-bedded, intraclastic, rip-up clasts, slump beds interbedded with black shale-phyllite up to 5cm wide, splintery to platy partings, carbonaceous coatings, occasional oolitic intervals. NVP, no shows.	Minor calcite veining mainly parallel to bedding.	Bedding 20* - 40* from horizontal.

SHEET # 90

Date: Aug. 13, 1997

Location(NTS.): 2 M / 4

UTM Cood: N 5664039, E 572158

Elevation: 30.0m (98') above MSL

Dip at Collar: Vertical

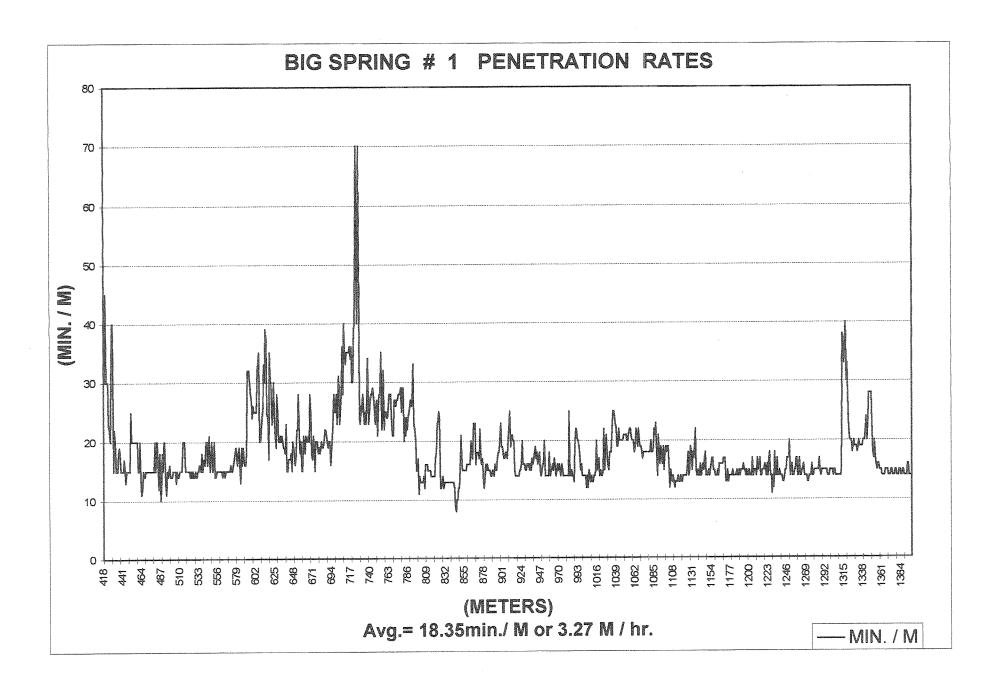
Total Depth: 1396.82m Core size: NQ

Hole No: BIG SPRING #1

Spud date: May 25, 1997 Completed: Aug. 13, 1997

	T			
Depth		Lithology Description	Fracture / Alteration	Remarks
1381.82 - 1393.25 (11.43m)	Box 423 424 425 426	March Point Fm. (equivalent)	Minor calcite veining mainly parallel to bedding.	Bedding 10* - 30* from horizontal.

# Diamond Drill Penetration & Diamond Bit Data



Sheet1
PENETRATION RECORD

DEPTH M	TIME START	TIME FINISH	MINUTES / M	BIT # /SERIES	RPM / WOB
151	1930	2010	40	19660-1 / #7	300 / 2000
	1000	2,69	150 MIN	, , , , , , , , , , , , , , , , , , , ,	
152	2010	2050		19660-2 / # 7	300 / 2000
153		2130	40		
154		2155	25		
155	2155	2210	15		
156	2210	2225	15		
157	2225	2305	30		
158	3 2305	2325	20		
159		2340	15		
160		20	40		
161			15		
162			25		
163			15		
164			18		
165			18		
166			40		
167			15		
168			15		
169					
170					
17 <sup>-</sup>			11		
173		533			
174					
175					
170					
173					
178					
179					
180					
18 <sup>-</sup>					
182			35		
18:	3 1905	1945	40		
184	4 2200	2220	20		
18	5 2220	2240			
186					
18					
188					
189					
196					
19					
193					
19:					
19					
19:					600 / 2000
19	340	353		19660-2 / # 7	600 / 2000
			1037 MIN		

Sheet 2
PENETRATION RECORD

DEPTH M	TIME START	TIME FINISH	MINUTES / M 1037 MIN.	BIT #	RPM / WOB
197	530	542	12	19660-2 / # 7	700 / 2000
198	542	557	15		
199	610	630	20		
200	630	650	20		
201	650	710	20		
202	745	800	15		
203	800	830	30		
204	1935	1955		19660-2/#7	700 / 2000
52 METRES			152 MIN / 1189 M		
205		2015		3409 / #5	700 / 2000
206		2035	20		
207		2055	20		
208		2115			
209		2135			
210		2155			
211		2230			
212		2245			
213		2312			
214		2355 15			
215		45			
216 217		115			
218		130			
219					
220					
221					
222					
223					
224					
225					
226					
227				)	
228			20	)	
229		555	20	)	
230		615			
231	615	635			
232	2 655	730			
233					
234					
235					
236					
23					
238					
239					
240					
24					700 / 2000
24:	2 1350	) 1410		3409 / #5	100 / 2000
38 METRES			722 MIN.		

#### PENETRATION RECORD

DATE Y/M/D	METRE START	***************************************	TIME FINISH	<u>MIN. / M</u>	MAKE AND BIT #	RPM	OFF PRESS.	<u>W. O. B.</u>	CORE M
Experimental contractions			Managed outcome transfer and managed and m	res equ	ALS 2.6 METRES F	PER HO		·	spinderms
	289		2310	<u>30</u>		and the second	ouil/muirousia		
	<u>290</u>		2340	<u>30</u>					
	<u>291</u>	2340	10	30					
97/06/25	<u>292</u>	<u>20</u>	<u>50</u>	<u>30</u>					
- Tooling	<u>293</u>	<u>50</u>	<u>120</u>	<u>30</u>					
	<u>294</u>	<u>120</u>	140	<u>20</u>					
	<u>295</u>	<u>210</u>	<u>240</u>	<u>30</u>					
	<u>296</u>	240	310	<u>30</u>					
	297		340	<u>30</u>					
	298		435	<u>30</u>					
	299		505	30					
	300		<u>535</u>	<u>30</u>					
	301	605		27					
	302			26					
	303			32					
	304			<u>30</u>					
	305			20					
	306			<u>30</u>					
	307								
	308								
	309								
	310								
	311								
	312								
	313								
	314								
	315								
	<u>316</u>								
	317								
	318				NORMAL RETIRE	MENT (	ON MILL		
97/06/26	<u>319</u>	<u>100</u>	<u>133</u>	<u>33</u>	JKS 03409-5, # 09	<u>500</u>	<u>600</u>	3000	<u>)</u>
	115 ME	TRES AT	2800 MINI	JTES EQ	<u>JALS 2.5 METRES</u>	PER H	<u>OUR.</u>		
	<u>320</u>	<u>133</u>	<u>205</u>	<u>32</u>	JKS 03799-6, # 10	500	<u>600</u>	3000	<u>)</u>
	<u>321</u>	<u>205</u>	225	20					
	<u>322</u>	310	<u>337</u>		, -				
	<u>323</u>			32					
	<u>324</u>								
	<u>325</u>								
	<u>326</u>				•				
	<u>327</u>								
	<u>328</u>								
	<u>329</u>								
	<u>330</u>								
	<u>331</u>				•				
97/06/27			1210		JKS 03799-6, # 10			3000	Ō
	<u>12 MET</u>	<u>RES</u>		481 MIN	UTES EQUALS 1.5	M/HOL	<u>JR</u>		

Sheet 5
PENETRATION RECORD

DATE	METRE		TIME	<u>MIN. / M</u>	MAKE AND BIT #	<u>RPM</u>	<u>OFF</u> PRESS	<u>W. O. B.</u>	Date of the last o
Y/M/D	SIAKI	START	<u>FINISH</u>				rnego	1	M
	333	1210	1240	<u>30</u>					
	334								
	<del>3</del> 35			30					
	<u>336</u>			45					
	337			30 30 45 30					
	338			<u>40</u>					
	<u>339</u>	<u>1645</u>	<u>1730</u>	<u>40</u> <u>45</u> <u>30</u>					
	<u>340</u>	<u> 1820</u>	<u> 1850</u>	<u>30</u>					
	<u>341</u>	<u>1850</u>	<u>1920</u>						
	<u>342</u>		<u>2000</u>	<u>40</u>					
	<u>343</u>	2000	<u>2030</u>	40 30 68 32 25 25 30					
	<u>344</u>			<u>68</u>					
	<u>345</u>			<u>32</u>					
	<u>346</u>			<u>25</u>					
	<u>347</u>			<u>25</u>					
	<u>348</u>			<u>30</u>					
97/06/28			<u>55</u>	<u>30</u> <u>35</u>					
	<u>350</u>			<u>35</u>					
	<u>351</u>								
	<u>352</u>								
	<u>353</u>				SQUASHED SEGI				
			<u>@ 2.8M/</u> F		<u>JKS 03799-6, #10</u>	<u>50</u>			
<u>97-06-2</u>	<u>8 354</u>	730	830	<u>60</u>	· Postperiory, communicary and	<u>50</u> 0	<u>0 400</u>	<u>3000</u>	<u>)</u>
					JKS 7-3354-8 #12				

#### Sheet 6

#### PENETRATION RECORD

DATE	METRE		TIME.	MIN./M	MAKE AND BIT #	RPM	SPM EO V 76	W.O.B. CORE
Y/M/D		START	FINISH 1524	1524	WC72254 9	500	<u>50 X 76</u>	1500
97-07-1	<u>1 64</u> 418		<u>1534</u> 1005	1534 30	<u>JKS73354-8</u>	300		T J J J J J
	419		1040	<u>30</u>				
	420		1040 1130	<u>30</u> <u>45</u>				
	421			30				
	422		1315	<u>30</u>				
	423							
	424			<u>23</u>				
	425			22				
	426							
	427							
	428							
	<u>429</u>	<u> 1830</u>	<u>1910</u>					
	<u>430</u>	<u>2128</u>	<u>2143</u>	<u>15</u>				
	<u>431</u>	<u>2143</u>	<u>2200</u>					
	<u>432</u>							
<u>97-07-1</u>				<u>15</u>				
	<u>434</u>							
	<u>435</u>							
	436							
	437				•			
	<u>438</u>							
	439				•			
	<u>440</u>							
	441				•			
	442				•			
	443							
	444							
	<u>445</u> 446							
	440 447							
	448							
	449	-						
	450							
	<u>451</u>							
	452			20	)			
	453			20	•			
	454							
	<u>455</u>			20				
	456			20				
	457							
	<u>458</u>			20	<u>]</u>			
	459			20	<u>]</u>			
	460			15				
	<u>461</u>		1910	15	) 			
<u>97-07-1</u>		1910	<u>1930</u>		JKS 73354-8			
	<u>108M</u>			2476 MII	N ROP AT 2.6M PE	R MIN.		

#### Sheet 7 PENETRATION RECORD

DATE Y/M/D	METRE START	<u>TIME</u> START	TIME FINISH	<u>MIN. / M</u>	MAKE AND BIT #	<u>RPM</u>	<u>SPM</u> 50 X 76	<u>W. O. B.</u> <u>DAN</u>	CORE M
97-07-1		succession and succes		<u>2476</u>	<u>JKS73354-8</u>	<u>500</u>	<u>50</u>	1000	
	<u>463</u>	<u>2010</u>	2024	14					
	<u>464</u>	2024	<u>2035</u>						
	<u>465</u>	2035	2047						
	<u>466</u>								
	<u>467</u>								
	<u>468</u>								
	<u>469</u>								
	<u>470</u>								
	471								
97-07-1			<u>27</u>						
	473		<u>42</u>						
	474								
	<u>475</u>								
	476								
	477			10	•				
	478			15					
	<u>479</u> 480								
	480 481								
	482								
	483			20					
	484								
	485								
	486								
	487								
	488				· }				
	489			18					
	490				<u>.</u>				
	491				<u>)</u>				
	492	1545	1605	20	<u>)</u>				
	<u>493</u>	<u>1650</u>							
	<u>494</u>								
	<u>495</u>								
	<u>496</u>				<u>!</u>	<u>550</u>	<u>60</u>	<u>1500</u>	)
	<u>497</u>				<u> </u>				
	<u>498</u>				<u> </u>				
	499								
	<u>500</u>			3 14	<u>.</u>				
	<u>501</u>			14					
	<u>502</u>				2				
	<u>503</u>				2				
ስፖ <u>ለ</u> ግ 4	504				<u>)</u> 5 JKS 73354-8	<u>55</u> (	) 60	1500	1
97-07-1	<u>4 505</u> 196M	<u>2347</u>	, e	un 19000m	73334-6 ROP AT 3.4M PE		<u> </u>	2 1200	<u>.</u>
	10011			W 160					

#### PENETRATION RECORD

DATEMETRE TIMETIMEMIN. / MMAKE AND BIT #RPMOFFW. O. B.COREY/M/DSTART STARTFINISHPRESS.M

DATE	METRE		TIME	<u>MIN. / M</u>	MAKE AND BIT #	<u>RPM</u>	<u>SPM</u> 50 X 76	W.O.B. CORE
Y/M/D		START	<u>FINISH</u>	2424	IVC 700E4 0	550		1500
97-07-14		^	<i>A E</i> .		JKS 73354-8	550		1300
	<u>506</u>		<u>15</u>		INSTAL FLUID COI	NIKOL	VALVE	
	<u>507</u>		<u>30</u>					
	<u>508</u>		<u>131</u>					
	<u>509</u>		<u>145</u>					
	<u>510</u>		<u>200</u>					
	<u>511</u>		<u>250</u>					
07 07 1	<u>512</u>					EEA	440	4500
<u>97-07-1</u>		<u>305</u>	<u>320</u>		PULL BIT, - 60%	<u>550</u>	<u>140</u>	<u>1500</u>
	<u>204M</u>	0000	0050		3.5M PER HR	rra	4.40	4500
	<u>514</u>				JKS 73353-7	<u>550</u>	<u>140</u>	<u>1500</u>
	<u>515</u>							
A 100 A 100 A	<u>516</u>							
<u>97-07-1</u>				<u>15</u>				
	<u>518</u>			15				
	<u>519</u>							
	<u>520</u>			15	-			
	<u>521</u>				) •			
	<u>522</u>							
	<u>523</u>							
	<u>524</u>							
	<u>525</u>							
	<u>526</u>							
	<u>527</u>							
	<u>528</u>				•			
	<u>529</u>							
	<u>530</u>							
	<u>531</u>							
	<u>532</u>					<u>550</u>		
	<u>533</u>						<u>110</u>	
	<u>534</u>							
	<u>535</u>							
	<u>536</u>							
	<u>537</u>				<u> </u>			
	<u>538</u>				<u>.</u>			
	<u>539</u>			<u> </u>	<b>7</b>			
	<u>540</u>							
	<u>541</u>							
	<u>542</u>				<u>)</u>			
	<u>543</u>							
	<u>544</u>							
	<u>545</u>							
	<u>546</u>							
	<u>547</u>							
97-07-1		<u>1706</u>	<u>1723</u>		<u> JKS 73353-7</u>	<u>550</u>	110	<u>1500</u>
	<u>35M</u>			<u>567</u>	ROP AT 3.7 M/HR	<u> </u>		

DATE	METRE	entitle for the forest and the first	TIME	<u>MIN. / M</u>	MAKE AND BIT #	RPM	SPM	<u>W. O. B.</u>	topical convenience of the conve
Y/M/D		<u>START</u>	<u>FINISH</u>	E 6.7			<u>50 X 76</u>		M
97-07-1	35M 549	1724	1744	<u>567</u>	JKS73353-7	500	<u>110</u>	<u>1500</u>	
31"01-1	550	1840	1855	1 <u>5</u>		200			
	<u>551</u>	1856		<u>16</u>					
	<u>552</u>			20					
	<u>553</u>		<u>2031</u>	14					
	<u>554</u>		<u>2045</u>	14					
	<u>555</u>			<u>15</u>					
	<u>556</u>			<u>15</u>					
	<u>557</u>			<u>15</u>					
07 07 4	<u>558</u>			<u>15</u>					
97-07-10	§ <u>559</u> <u>560</u>	8	<u>23</u>	<u>15</u> <u>15</u>					
	<u>561</u>		<u>38</u> <u>43</u>	15 15					
	<u>562</u>			1 <u>4</u>					
	<u>563</u>			15					
	564			<u>15</u> <u>15</u> <u>14</u>					
	<u>565</u>			14					
	<u>566</u>			<u>15</u>					
	<u>567</u>			<u>15</u>					
	<u>568</u>			<u>15</u>					
	<u>569</u>			<u>15</u>	•				
	<u>570</u>								
	<u>571</u>								
	<u>572</u>				<u>.</u>				
	<u>573</u> <u>574</u>								
	<u>575</u>								
	<u>576</u>								
	577								
	578								
	<u>579</u>								
	<u>580</u>								
	<u>581</u>								
	<u>582</u>				!				
	<u>583</u>				<u>.</u>				
	<u>584</u>								
	<u>585</u>								
	<u>586</u> 587								
	<u>507</u> 588								
	<u>589</u>								
	<u>590</u>								
97-07-1					JKS 73353-7				
THE PERSON NAMED IN THE PE	78M	ng nguyện nhiệt ngọ hiệt name	— Mariji Barqada ili quanda miliji m		ROP AT 3.73M/HF	<u> 500</u>	<u>110</u>	1500	<u>)</u>

<u>DATE</u>	METRE		TIME_	<u>MIN. / M</u>	MAKE AND BIT #	RPM	<u>SPM</u> 51X76	W.O.B. CORE	
Y/M/D		<u>START</u>	<u>FINISH</u>	1255	JKS 73353-7	500			
97-07-10		4030	2002	Martin de la companya del companya del companya de la companya de	JVQ 13333-1	200	110	1000	
	<u>592</u>		<u>2002</u>	<u>32</u>					
	<u>593</u>		<u>2033</u>	<u>31</u>					
	<u>594</u>		<u>2105</u>	<u>32</u>					
	<u>595</u>		2220	<u>30</u>		rra	440	4000	
	<u>596</u>		2248	<u>28</u>		<u>550</u>	110	<u>1000</u>	
	<u>597</u>		<u>2315</u>	27					
A	<u>598</u>		22	<u>24</u>					
<u>97-07-1</u>			48	<u>26</u>					
	<u>600</u>			<u>25</u>					
	<u>601</u>		<u>220</u>	<u>25</u>					
	<u>602</u>		<u>245</u>	<u>25</u>					
	603		<u>310</u>	<u>25</u>		450		4000	
	<u>604</u>			<u>32</u>		<u>450</u>	110	<u>1000</u>	
	<u>605</u>			<u>33</u>					
	<u>606</u>			<u>35</u>	•	000		CAA	
	<u>607</u>			<u>20</u>		<u>600</u>	<u>110</u>	<u>500</u>	
	608			<u>20</u>	•				
	<u>609</u>			22					
	<u>610</u>			<u>24</u>				4500	
	<u>611</u>			<u>26</u>		<u>500</u>	110	<u>1500</u>	
	<u>612</u>			<u>33</u>					
	<u>613</u>				•				
	<u>614</u>				•				
	<u>615</u>								
	<u>616</u>								
	<u>617</u>								
	<u>618</u>								
	<u>619</u>								
	<u>620</u>				•				
	<u>621</u>								
	622								
	<u>623</u>								
	<u>624</u>	<u>2053</u>	<u>2123</u>		MILL N/R				
	<u>115M</u>				ROP AT 3.17M/HF				
97-07-1					B/L 20093-2	<u>500</u>	110	<u>1500</u>	
	<u>626</u>								
	<u>627</u>								
	<u>628</u>			28					
	<u>629</u>				1				
	<u>630</u>			<u>20</u>					
	<u>631</u>			20					
	632				•				
	633				1				
	<u>634</u>				•				
	<u>635</u>								
	<u>636</u>	1231	<u>1251</u>		B/L 20093-2	<u>500</u>	<u>110</u>	<u>1500</u>	
<u>97-07-1</u>	<u>8 12M</u>			<u>257</u>	ROP AT 2.8M/HR				

DATE	METRE START		TIME	<u>MIN. / M</u>	MAKE AND BIT #	RPM	<u>SPM</u> 51X76	W.O.B. CORE
<u>Y/M/D</u> 97-07-18		START	<u>FINISH</u>	257	B/L 20093-2 S8	500		
31-01-10	637	1343	1402	<u>257</u> 19	.,,	200	119	1000
	<u>638</u>			<u>13</u> 18				
	<u>639</u>			<u> 23</u>				
	<u>640</u>			<u> 23</u> 15				
	641	1545		15 15				
	642			<u>17</u>				
	642			<u>17</u>	•			
	<u>644</u>			17				
	645			18				
	646			15				
	647			20	•			
	648							
	649							
	<u>650</u>							
	<u>651</u>							
	652							
	653							
	<u>654</u>							
97-07-19								
	<u>656</u>		140					
	<u>657</u>	141	<u>201</u>	20				
	<u>658</u>	<u>255</u>	310					
	<u>659</u>	311	<u>326</u>	15	<u>.</u>			
	<u>660</u>	327	347		-			
	<u>661</u>	445	<u>505</u>	20	<u>)</u>			
	<u>662</u>							
	<u>663</u>							
	<u>664</u>							
	<u>665</u>							
	<u>666</u>							
	<u>667</u>							
	668							
	669							
	670				<u>}</u>			
	<u>671</u>							
	<u>672</u>				_			
	<u>673</u>				<u>)</u>			
	<u>674</u>			13	<u>)</u>			
	675				<u>)</u>			
	<u>676</u>				<u>/</u>			
	<u>677</u>							
	678				) 5			
	<u>679</u> 680				2 3 B/L 20093-2 S8	<u>500</u>	<u>) 11</u>	<u>0 1500</u>
97-07-1		<u>1600</u>	<u> 1010</u>		ROP AT 3.0M/HR	200		1000

# Sheet 13 PENETRATION RECORD

DATE	METRE		TIME	<u>MIN. / M</u>	MAKE AND BIT #	<u>RPM</u>	<u>SPM</u> 51X76	<u>W. O. B.</u>	CORE M
<u>Y/M/D</u> 97-07-20		START	<u>FINISH</u>	1102	B/L 20093-2 S8	500	***************************************	<u>1500</u>	
97-07-20	<u>301/1</u> 681	1618	<u>1637</u>			200	110	1000	
	682								
	683	.,	1800						
	684								
	685								
	<u>686</u>			22					
	687								
	688								
	689				•				
	690								
	691								
	692								
	693								
	694	2356	14	18					
97-07-20	<u>695</u>								
	<u>696</u>				<u>.</u>				
	<u>697</u>								
	698								
	699								
	700			28					
	<u>701</u>					EOC	. 446	3 4000	
	<u>702</u>			3 29	<u>}</u>	<u>500</u>	110	1000	!
	<u>703</u>			<u>31</u>	<u>.</u>				
	<u>704</u>								
	<u>705</u>			<u> </u>					
	<u>706</u> 707								
	708 708				2				
	709								
	710								
	711				3	<u>500</u>	) 110	0 800	)
	712				5	6900000000			~
	713			<u>3</u> 5	5				
	714			<u>35</u>	<u>5</u>				
	715	1540	1615	<u> 35</u>	2				
	<u>716</u>		<u>1738</u>		<u>3</u> .				
	<u>717</u>				<u>1</u>				
	<u>718</u>				<u> </u>				
	<u>719</u>				2				
	<u>720</u>					the T Therm and The		NALE	
	721				REDUCED WOB	DUE IC	<u>) HIGH A</u>	<u>INGLE</u>	
	723				SHALE				
PL 2 PL 100 PL 10	723					en	n 44	n En	1
<u>21-07-9</u>					SURVEY	<u>500</u>			
	<u>725</u>					<u>500</u>	<u> 11</u>	<u>v 1301</u>	<u>.</u>
	<u>726</u> 727				<u>ı</u> 0 20093-2 S8	500	0 11	0 1500	า
	103M	t eteti	<i>)</i> 551		7 20093-2 30 8 ROP AT 2.1M/HR			J 1001	•
	· A CIAL			See that they		-			

DATE Y/M/D	METRE		TIME FINISH	<u>MIN. / M</u>	MAKE AND BIT #	RPM	<u>SPM</u> 51X76	W.O.B. CORE
21-07-9		START	<u>riiviən</u>	2528	B/L 20093-2 S8	500		
Communication of the second of	728	<u>803</u>	<u>827</u>	24	-	waterphy come and	· · · · · · · · · · · · · · · · · · ·	6 Weldingerstraterstrated
	729		<u>850</u>	<u>23</u>				
	<u>730</u>		<u>916</u>					
	<u>731</u>	<u>1002</u>	1027					
	<u>732</u>		<u>1055</u>	28				
	<u>733</u> <u>734</u>			<u>∠3</u>				
	735							
	<u>736</u>			23				
	737		1438					
	738			34				
	<u>739</u>			<u>23</u>				
	<u>740</u>							
	<u>741</u>							
	<u>742</u> 743							
	743 744							
	745							
	746							
	747			<u>23</u>				
	748							
<u>22-07-9</u>					•			
	<u>750</u>		<u>29</u>	21				
	<u>751</u> <u>752</u>							
	<u>752</u> 753							
	<u>750</u> 754							
	755							
	<u>756</u>							
	<u>757</u>			<u>32</u>	) }			
	<u>758</u>							
	<u>759</u>							
	<u>760</u> 761				1			
	761 762							
	<u>763</u>			26				
	764			28				
	<u>765</u>	1207	<u>1235</u>	28				
	766			28				
	<u>767</u>			23				
	<u>768</u>				•			
	<u>769</u> 770				B/L 20093-2 S8	<u>500</u>	) 110	<u>1500</u>
22-07-9		1070	1110		ROP AT 2.45 M/HF		2 113	SE TO THE THE

DATE	METRE I		TIME	<u>MIN. / M</u>	MAKE AND BIT #	RPM	SPM EAV76	W. O. B. CO	RE
Y/M/D	START S	IAKI	<u>FINISH</u>	2020	D# 20002 2 C0	E00	51X76	<u>DAN</u> <u>M</u> 1500 TO	
22-07-9		1710	4707		B/L 20093-2 S8	<u>500</u>	110	2000	
	<u>771</u> 772	<u>1710</u> <u>1737</u>	<u>1737</u> <u>1803</u>	<u>27</u>				2000	
	772 773	1910	1937	<u>26</u> 27					
	774	1938	2005	<u>27</u> 27					
	775	<u>1000</u> 2005	<u>2003</u> 2033						
	<u>776</u>	<u>2152</u>	<u>2220</u>						
	775	2221	2249						
23-07-9		2250	<u>2319</u>						
	779	<u>50</u>	115						
	<u>780</u>	<u>116</u>	<u>145</u>						
	<u>781</u>	<u>146</u>	<u>215</u>						
	<u>782</u>	<u>400</u>	<u>420</u>	<u>20</u>					
	<u>783</u>	<u>421</u>	<u>445</u>						
	<u>784</u>	<u>446</u>	<u>507</u>	21					
	<u>785</u>	<u>616</u>	<u>640</u>	24					
	<u>786</u>	<u>641</u>	<u>703</u>	22	:				
	<u>787</u>	<u>704</u>	<u>728</u>						
	<u>788</u>	<u>728</u>	907	<u>25</u>	•				
	<u>789</u>	907	933		•				
	<u>790</u>	<u>933</u>	<u>1000</u>	27	•				
	<u>791</u>	1134	<u>1200</u>		•				
	<u>792</u> 793	<u>1200</u> 1227	<u>1227</u> 1300		•				
	<u>793</u> 794	1415	1300 1438						
	794 795	1438	1500						
	<u>795</u> 796	1500 1500	1520 1520		NORMAL RETIRE	MENT			
	173M	1000	104.0		ROP AT 2.4 M/HR				
	11014			1000	Legislation of the Committee of the Comm	•			
24-07-9	<u>7 797</u>	1005	<u>1020</u>	<u>15</u>	B/L 20305-2 S2	<u>500</u>	110	1000	
	798	1020	1035	<u>15</u>					
	<u>799</u>	<u>1035</u>	<u>1052</u>	17	<b>.</b>				
	<u>800</u>	<u>1157</u>	<u>1208</u>	11	-	<u>500</u>	110	<u>1500</u>	
	<u>801</u>	<u>1208</u>	<u>1222</u>						
	<u>802</u>	<u>1222</u>	<u>1235</u>		<u> </u>				
	803	<u>1333</u>			<u>.</u>				
	<u>804</u>	1346	<u>1359</u>						
	<u>805</u>	<u>1359</u>	<u>1412</u>						
	<u>806</u>	<u>1507</u>	<u>1521</u>		<u>.</u>				
	<u>807</u>	<u>1521</u>	<u>1533</u>	12					
	<u>808</u>	<u>1702</u>	<u>1718</u>		<u>)</u>				
	<u>809</u>	1718							
	<u>810</u> <u>811</u>	<u>1734</u> 1900	<u>1750</u> 1915						
	<u>811</u> 812	<u>1900</u> 1915							
	813	1930		1 1 1 1 1 1					
	814	<u>1950</u> <u>2058</u>							
24-07-9		<u>2000</u> 2113		14					
	18M		man a state of		ROP AT 4M/HR	500	) 110	1500	

DATE Y/M/D	METRE START		TIME FINISH	<u>MIN. / M</u>	MAKE AND BIT #	RPM	<u>SPM</u> 50X76	<u>W. O. B.</u>	CORE
24-07-9		THE REAL PROPERTY.	B B A WAR WAP IS W	272	B/L20305-2 S8		Mary Conference of the Confere		autostope
	816	2127	2141	14		500	110	<u>0 1500</u>	)
	817	2246		14		22000			-
	<u>818</u>	2300		14					
	<u>819</u>	2314		14					
<u>25-07-9</u>		<u>100</u>		<u>17</u>					
	<u>821</u>	<u>118</u>		<u>18</u>					
	<u>822</u>	<u>137</u>	<u>200</u>	<u>23</u>					
	<u>823</u>	<u>336</u>	<u>350</u>	<u>23</u>					
	824	<u>400</u>		<u>25</u>					
	<u>845</u>			18 23 23 25 24 12					
	<u>826</u>			<u>12</u>					
	<u>827</u>			<u>12</u>	· •				
	828			<u>13</u>					
	829			<u>14</u>					
	<u>830</u>			12	1				
	<u>831</u>	834		<u>13</u>	!				
	832			<u>13</u>	•				
	833			13 13 13 13 13	•				
	<u>834</u>			13					
	<u>835</u>			13					
	836 927			<u>13</u>					
	837			13					
	<u>838</u> 839			<u>13</u>					
	<u>840</u>			<u>13</u> 13					
	841			13					
	842			13					
	843				<u>:</u> }				
	844			9	: }	<u>500</u>	<u>11</u>	0 200	0
	<u>845</u>					galpaceathroni	المراجعة الم		Times .
	846			10	)				
	847								
	848								
	849								
	850			<u>17</u>	•	<u>500</u>	<u>11</u>	<u>0 100</u>	<u>0</u>
<u> 26-07-9</u>									
	<u>852</u>	544	600	16	<u>)</u>				
	<u>853</u>	1113	1128	<u>15</u>	5				
	<u>854</u>	1128	1143		<u> </u>				
	<u>855</u>		<u>1158</u>	15	5				
	<u>856</u>			15	<u>5</u>				
	<u>857</u>								
	<u>858</u>				<u>5</u>				
	<u>859</u>								
	<u>860</u>	1520	<u>1536</u>		B/L 20305-2 S2				
<u>26-07-9</u>	7 <u>63M</u>			<u>927</u>	ROP AT 4.0 M/HR	500	0 11	<u>150</u>	<u>U</u>

DATE	METRE		TIME	<u>MIN. / M</u>	MAKE AND BIT #	RPM	SPM	W. O. B. CC	<u>DRE</u>
Y/M/D		START	<u>FINISH</u>	027	DIL JUSTES CO	500	<u>50X76</u>	<u>M</u> 008 (	
	<u>63M</u> 861	1536	1542	<u>927</u> <u>16</u>	B/L 20305-2 S2	200	1 110	900	
	862			<u>16</u>					
	<u>863</u>			<u>20</u>					
	<u>864</u>			18					
	865			<u>18</u> 17					
	<u>866</u>			23					
	867			22	•				
	868			<u>23</u>					
<u>27-07-9</u>	7 869		<u>21</u>	<u>16</u>					
	<u>870</u>	22	40	<u>18</u>					
	<u>871</u>								
	872			<u>18</u>					
	<u>873</u>				•				
	874			22					
	875				•				
	876				1				
	<u>877</u> 878								
	<u>879</u>								
	880								
	<u>881</u>				}				
	882								
	883								
	884								
	<u>885</u>	1050	1105	15					
	<u>886</u>				<u>i</u>				
	<u>887</u>				<u> </u>				
	888								
	889								
	<u>890</u>								
	<u>891</u>								
	<u>892</u>								
	<u>893</u> 894				2				
	895 895								
	896								
	897				<u>.</u> }				
	898								
	899			23	3				
	900			19	<u>)</u>				
	901	2117			<u>)</u>				
	<u>902</u>				3				
	903								
<u>27-07-9</u>		<u> 2335</u>	<u>2352</u>		<u>B/L 20305-2 S2</u>	allo princ	a		
	<u>106M</u>			<u> 1676</u>	ROP AT 3.8M/HR	<u>50</u>	<u>0 110</u>	<u>0 1000</u>	

Sheet 18
PENETRATION RECORD

DATE Y/M/D	METRE START	TIME START	TIME FINISH	<u>MIN. / M</u>	MAKE AND BIT #	RPM	<u>SPM</u> 50X76	W.O.B. CORE
etrajori purpopuli primino ficialista	106M		журолини физиков посментий колий на на на на на на на на на на на на на	1676	B/L 20305-2 S2		destro-destro-destro-des	
<u> 28-07-97</u>		<u>103</u>	<u>121</u>	18		<u>500</u>	110	1000
	906		<u>139</u>	<u>18</u>				
	907	<u>139</u>		<u>17</u>				
	908			<u>20</u> <u>22</u>				
	<u>909</u>			<u>22</u>				
	<u>910</u>			<u>25</u>				
	<u>911</u>			<u>19</u>				
	912			<u>21</u>				
	<u>913</u>			<u>21</u>				
	914			<u>20</u>		FOC		4500
	<u>915</u>			<u>20</u>		<u>500</u>	110	<u>1500</u>
	<u>916</u>			<u>15</u>				
	917			14				
	<u>918</u>			14				
	<u>919</u>			<u>14</u>				
	<u>920</u>			<u>14</u>				
	<u>921</u>			<u>14</u> <u>15</u>				
	<u>922</u> 923			15 15				
	924			1 <u>1</u> 3				
	925			<u>10</u> 20				
	926			<u>16</u>				
	927			<u>16</u>	•			
	<u>928</u>			<u>16</u>				
	929			<u>15</u>				
	930			<u>15</u>				
	931							
	932			<u>16</u>				
	933							
	934							
	935	2140	2156	<u>16</u>				
	<u>936</u>	<u>2156</u>	2211	<u>15</u>				
	937	<u>2211</u>	2228	<u>17</u>	•			
<u> 29-07-9</u>	<u>7 938</u>			<u>16</u>				
	939		<u>25</u>	17	•			
	<u>940</u>	25	<u>43</u>	<u>18</u>	}			
	941							
	942			<u>17</u>	, ,			
	943							
	944							
	945							
	946	<u>3 445</u>	<u>503</u>		B/L 20305-2 S2	e n	A 4 4	0 4500
	<u>150M</u>			2393	ROP AT 3.8M/HR	<u>50</u>	0 11	<u>0 1500</u>

DATE Y/M/D	METRE START	TIME START	TIME FINISH	<u>MIN. / M</u>	MAKE AND BIT #	<u>RPM</u>	<u>SPM</u> 50X76	<u>W. O. B</u>	CORE M
<del>29-07-</del> 9		miredonies in secure and secure	R BINISH R	2393			engermonicon managements		ICOGAIGA
	947	816	<u>831</u>		B/L 20305-2 S8	500	110	150	<u>0</u>
	948		845	14		***************************************			
	949			<u>15</u>					
	<u>950</u>		<u>1041</u>	<u>16</u>					
	<u>951</u>	1041	<u>1057</u>	<u>16</u>					
	<u>952</u>			<u>20</u>	!				
	<u>953</u>			<u>14</u> 14 14	:				
	<u>954</u>			<u>14</u>	:				
	<u>955</u>			<u>14</u>	:				
	<u>956</u>			14	•				
	<u>957</u>			<u>14</u>	:				
	<u>958</u>			<u>18</u>					
	<u>959</u>			14					
	<u>960</u>			<u>15</u>					
	<u>961</u>			<u>15</u>					
	<u>962</u>			<u>16</u>					
	<u>63</u>								
	<u>964</u>			<u>17</u>					
	965			<u>16</u>					
	<u>966</u>			14					
	<u>967</u>			15 16 15					
<u>30-07-9</u>				<u>16</u>					
	969			15	2				
	970								
	<u>971</u>								
	972				<u>}</u>				
	973								
	974				2				
	975				<u>}</u>				
	976	<u>509</u>		. 14	<u>k</u>				
	977			14					
	978				<u> </u>				
	979				<u>ł</u>				
	980		+						
	<u>981</u>			14	<u>.</u>				
	982			: 4	<u>)</u>				
	983				± 4				
	984			14	<u>*</u> =				
	985			15	<u>.</u>				
	986			14	<u>*</u>				
20 07 0	987				± 3 B/L 20305-2 S2	OUT	OF GUA	CE ON IL	AND OD
<u>30-07-9</u>		<u>1443</u>	<u>1456</u>		3 ROP AT 3.8M/HR	50			Management of the second of th
	<u> 192M</u>			<u>3020</u>	D RUP AT 3.0W/TR	20	2 11	<u> </u>	2

# Sheet 20 PENETRATION RECORD

DATE Y/M/D	METRE START		TIME FINISH	<u>MIN. / M</u>	MAKE AND BIT #	RPM	<u>SPM</u> 50X76	<u>W. O.</u>		<u>CORE</u> M
31-07-97		and Concession of the Concessi	www.coccommonder.com		B/L 20305-3 S2	<u>600</u>	110	15	<u>500</u>	
CARSON CONTROL AND	989	<u>306</u>	<u>325</u>	<u>19</u>						
	990	<u>325</u>	347	22						
	991	347	409	22						
	992	<u>531</u>	<u>551</u>	20						
	993	<u>551</u>	<u>611</u>	<u>20</u> 20						
	994	<u>611</u>	<u>630</u>	<u>19</u>						
	<u>995</u>	828	<u>845</u>	17						
	<u>996</u>	845	900	<u>15</u>						
	997	900	<u>916</u>	<u>16</u>						
	998	<u>1210</u>	1224	14						
	999	1224	1238	14						
	1000	<u>1238</u>	1252	14						
	1001	<u>1410</u>	<u>1424</u>	14						
	<u>1002</u>	1424	<u>1438</u>	14						
	1003	<u>1438</u>	1450	14 14 12						
	1004	<u>1617</u>	<u>1631</u>	<u>14</u>						
	<u>1005</u>	<u> 1631</u>	<u>1643</u>	<u>12</u>						
	<u>1006</u>	1643	<u>1658</u>	<u>15</u>						
	<u>1007</u>	<u> 1831</u>	<u>1845</u>	14						
	<u>1008</u>									
	<u>1009</u>			<u>14</u>						
	<u>1010</u>			<u>13</u>						
	<u>1011</u>	<u>2036</u>		<u>13</u>						
	<u>1012</u>			<u>14</u>						
	<u>1013</u>			<u>14</u> 15						
	<u>1014</u>			<u>15</u>						
	<u>1015</u>			<u>20</u>						
<u>1/8/97</u>										
	<u>1017</u>			<u>16</u>						
	<u>1018</u>									
	<u>1019</u>									
	<u>1020</u>			<u>15</u>						
	1021			14						
	<u>1022</u>			14						
	<u>1023</u>									
	1024			22	:					
	<u>1025</u>			15 18 21 17 16 15	•					
	<u>1026</u>		<u>719</u>	18						
	<u>1027</u>			<u> </u>	•					
	<u>1028</u>			1/	•					
	<u>1029</u>			10	•					
	1030			10						
	1031				! •			A	500	
	1032			10					<u> </u>	
	<u>1033</u> 1034			10 22				L	<u> </u>	
1/8/97					B/L 20305-3 S8	600	) 11(	) 1	000	
110181	48M	1002	1001		ROP AT 3.75M/HF			. 1	U	
	10141			, 00		•				

DATE Y/M/D	METRE START		TIME FINISH	<u>MIN. / M</u>	MAKE AND BIT #	<u>RPM</u>	<u>SPM</u> 50X76	W. O. B.	CORE M
impelanti (ili terrepentari punti di dilakti (ilin	48M	was typical discovery and a second discovery	STATE OF THE PROPERTY OF THE P	768	B/L 20305-3 S2				
<u>1/8/97</u>	1036	<u>1557</u>	<u>1622</u>	<u>25</u>		<u>600</u>	<u>110</u>	<u>1000</u>	
	<u>1037</u>	1740	<u> 1804</u>	24					
	1038	<u>1804</u>	<u> 1827</u>	<u>23</u>					
	<u>1039</u>	<u>1827</u>	1849	22					
	<u>1040</u>	<u>2007</u>	<u> 2026</u>	<u>19</u>					
	<u>1041</u>	<u> 2026</u>	<u>2045</u>	<u>19</u>					
	<u>1042</u>			22					
	<u>1043</u>			<u>20</u>					
	<u>1044</u>			<u>20</u>					
	<u>1045</u>			<u>20</u>					
<u>2/8/97</u>	<u>1046</u>			<u>20</u>					
	<u>1047</u>			<u>20</u>					
	<u>1048</u>			<u>21</u>					
	<u>1049</u>			<u>21</u>					
	<u>1050</u>								
	<u>1051</u>				•				
	<u>1052</u>								
	<u>1053</u>								
	1054 1055				<u>.</u>				
	1055				•				
	<u>1056</u> 1057			23					
	1057 1058			<u>20</u>					
	1050 1059								
	1060 1060			20					
	1061			18					
	1062								
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	<u>273M</u>			4431	ROP AT 3.7M/HR				

DATE	METRE	Ç	TIME	<u>MIN. / M</u>	MAKE AND BIT #	<u>RPM</u>	SPM EOV76	W.O.B. CORE
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No-STANDARD AND AND ADDRESS OF THE A	319M				ROP AT 3.75M/HF	₹		

DATE	METRE START		TIME FINISH	<u>MIN. / M</u>	MAKE AND BIT #	<u>RPM</u>	<u>SPM</u> 50X76	W.O.B. CORE
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<u>12/8/97</u>	1313				B/L 16941-24 S6	300	90	500
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	38M			95	ROP AT 2.3M/HR			

DATE	METRE START	TIME START	TIME FINISH	<u>MIN. / M</u>	MAKE AND BIT #	<u>RPM</u>	<u>SPM</u> 50X76	W.O.B. CORE
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10.00.0	84.82M		•	1637	ROP AT 3.5M/HR	•		

# Appendix A Biostratigraphic Report

Date: Fri, I Aug 1997 15:52:17-0230 (NDT)

From: Elliott Burden <etburden@morgan.ucs.mun.ca>

To: Roland Strickland < roland.strickland@nf.sympatico.ca>

Cc: henry williams < williams@sparky2.esd.mun.ca>

Subject: Re: Preliminary Report - Palynology

Three cleaved and crenulated phylitic samples, weighing 10-12 g, and from 692.6, 743, and 788.8 m were processed for fossil palynomorphs using standard techniques. On application of HF acid, samples disaggregated releasing tiny (less than 0.25 mm) mica? flakes and graphite.

Scanned residues are dominantly comprised of partially dissolved mineral material, carbonized shards and framboids. Possible microfossil material may still remain in the sample from 692.6 m; several small (less than 10 micrometre) ovoid and spheroid objects, including one with putative small vertucae or blunt spines, are present.

Carbonized material and mineral separates released during preparation suggest these rocks belong to low grade metamorphic strata lying well below the oil window (Thermal Alteration Index - Acritarch Alteration Index of greater than 4). The possible microfossils may belong to an assemblage of small, long ranging sphaeromorph and acanthomorph form taxa. This kind of restricted fossil assemblage is common to (but not restricted to) Lower and Middle Cambrian strata of western Newfoundland.

Elliott Burden Ph.D, P. Geo OMNICHRON Associates

# BIG SPRING #1 REPORT ON SAMPLES RECEIVED FOR PALEONTOLOGICAL ANALYSIS FROM DELPET RESOURCES, BY OMNICHRON ASSOCIATES

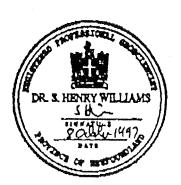
Six samples were received for paleontological work. Of these, three were processed for conodonts and three for palynomorphs.

Three cleaved and crenulated phylitic samples, weighing 10-12 g, and from 692.6, 743.0 and 788.8 m were processed for fossil palynomorphs using standard techniques. On application of HF acid, samples disaggregated releasing tiny (less than 0.25 mm) mica? flakes and graphite. Scanned residues are dominantly comprised of partially dissolved mineral material, carbonized shards and framboids. Possible microfossil material may still remain in the sample from 692.6 m; several small (less than 10 micrometre) ovoid and spheroid objects, including one with putative small verrucae or blunt spines, are present. Carbonized material and mineral separates released during preparation suggest these rocks belong to low grade metamorphic strata lying well below the oil window (Thermal Alteration Index - Acritarch Alteration Index of greater than 4). The possible microfossils may belong to an assemblage of small, long ranging sphaeromorph and acanthomorph form taxa. This kind of restricted fossil assemblage is common to (but not restricted to) Lower and Middle Cambrian strata of western Newfoundland.

The remaining three samples, 757.1 m, 768.1-768.4 m and 1392.9 m were processed for conodonts using formic acid in order to permit digestion of both limestone and dolostone. All samples were composed of strained, deformed carbonate; fine, graphitic residues were released during acid digestion, particularly from the lowest sample. Careful scanning of the heavy residue failed to reveal conodonts or other fossils of any kind. As conodonts would not be destroyed by metamorphism of the level apparently present in the well, we believe that the lack of conodonts points towards a Cambrian age for the samples, as we would have expected to recover at least a few fragments from this quantity of material if it was Ordovician or later. The porous nature of the processed rock and copious amounts of graphitic residue from the dolomitized onlitic carbonate at 1392.9 m suggests that it may have originally contained relatively large amounts of organic material and possibly had a high porosity prior to metamorphism.

Shippon

S. Henry Williams, P.Geo & Elliott T. Burden, P.Geo Omnicrion Associates



# Appendix B

**Geological Well Log** 

# S T R I D E CONSULTING

# GEOLOGICAL WELL LOG

Operator: Delpet - Vinland

Well: Big Springs #1

Location: Western Newfoundland Country: Newfoundland, Canada

Elevation: GL: 3m

KB: 5m

Drilling Rig: HS 150 ECD Rig # 2

Spud Date: May 25, 1997

Logging Commenced: June 8, 1997

Depth: 0 m

Logging Completed: Aug. 13, 1997

Depth: 1397 m

Prepared By: Roland Strickland

#### **Mud Data:**

1. Water with Poly - Safe from 0m to 1397m (T.D.)

Well Type: Slim - Hole

Continuous Coring

Borehole.

#### **Hole Size:**

- 1. 0m to 150m 127mm, PW casing
- 2. 0m to 352m 99mm, PQ
- 3. 352m to 1312m 96mm, HQ
- 4. 1312mm to 1397mm 76mm, NQ

### **LEGEND**

Sandstone

Shale



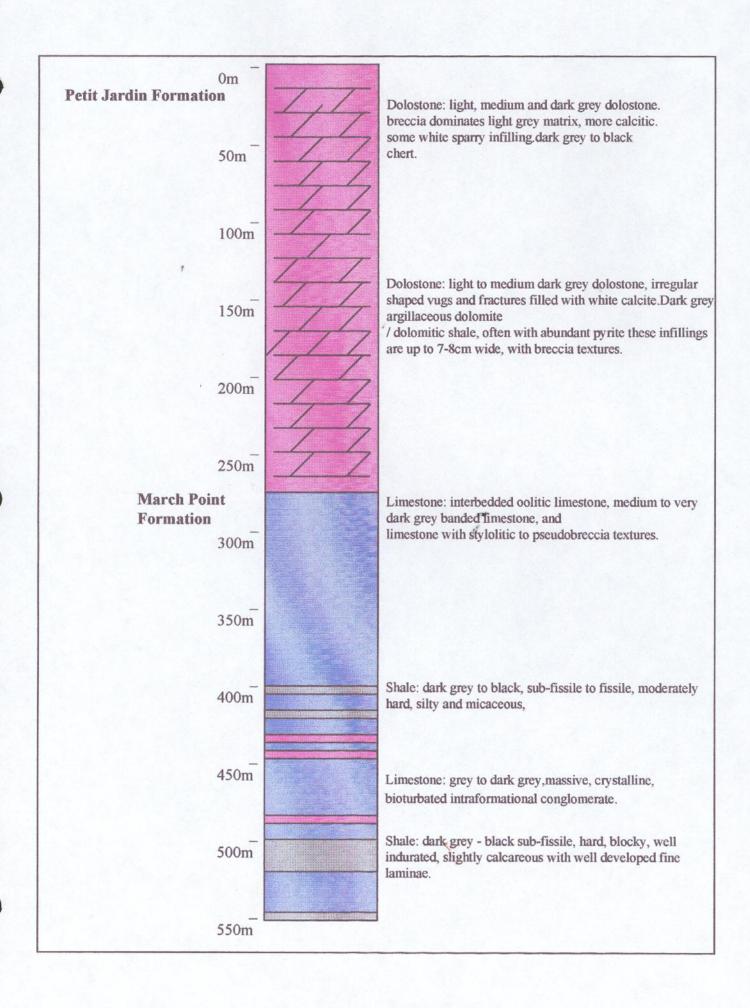
**Dolostone** 

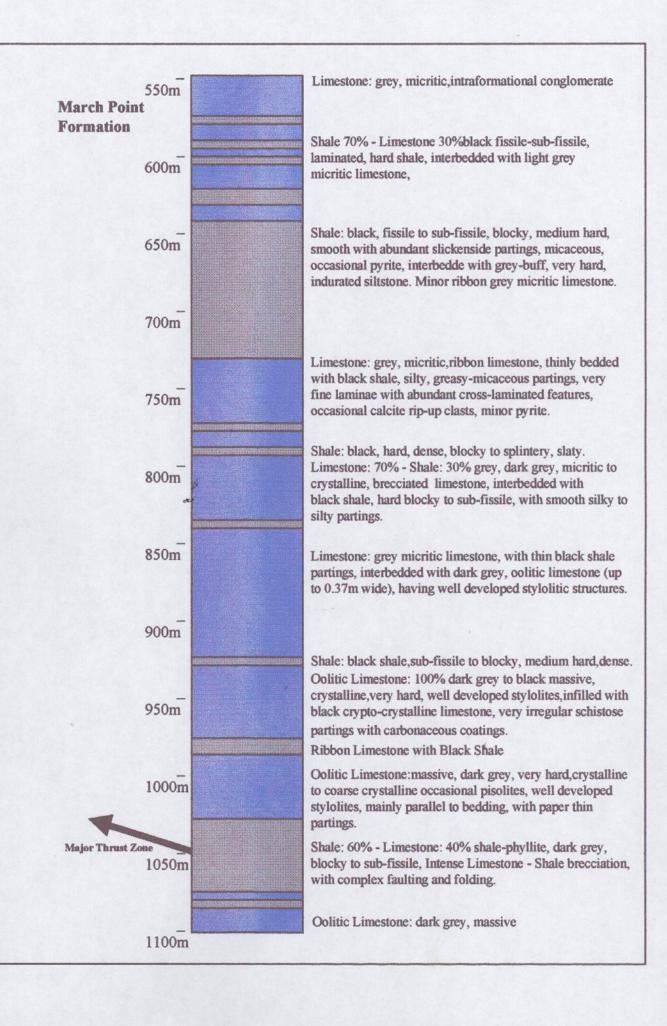
Siltstone

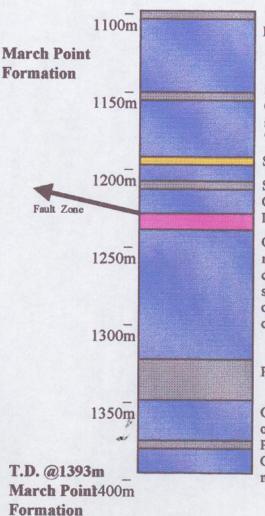


Limestone









(equivalent)

Parted & Ribbon Limestone with Oolitic Limestone.

Shale - Phyllite:green-grey shale-phyllite, with chert. Oolitic Limestone:massive, dark grey, very hard, siliceous, well developed stylolites, parallel to bedding. Total Gas units @1184 = 284units

Siltstone:dark grey, dense, massive, hard indurated, blocky.

#### Shale

Oolitic Limestone - Marble

Dolostone:Brecciated dark grey-black, massive, very hard.

Oolitic Limestone:dark grey-black, massive, micro-crystalline to crystalline, very hard, indurated, well developed stylolites, mainly parallel to bedding, breaking splintery-irregularly, with carbonaceous coatings. occasionally micritic, light grey very hard. Fine to coarse oolitic intervals, slightly pisolitic.

Parted-Ribbon Limestone and Shale-Phyllite:

Oolitic Limestone:massive, grey to dark-grey,fine oolites, occasional stylolites, vertical to bedding.

Parted Limestone with black Shale - Phyllite

Oolitic Limestone:massive, dark grey to black,fine to medium oolites,frequent stylolites