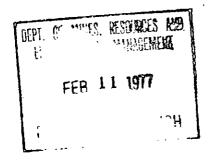
HUDSON'S B			5	30002058	04 . 35"N⊷86d 330086450	_					Sept Sept		
AQUITAINE O				FTD.	51701 Preca		CO-ORD,				_K.B.	RT	77‡
AQUITET AL	_ POPLA	RBEAR	<u>C-11</u>	PBTD.	•_•		CORES	NII			GR.	WD.	56 0'
SPUD. SEPT 21	1/74 1 17	0 040 0	<u></u>	1.P.				<u>.</u>					
R/R OCT 20/		0-710-5			·· -·								
COMP.		20-1227 3 3/8-3		5			PERFS.					-	
STATUS D&A		5 578=5	001=222	NET PAY				~_					
FORMATION	TOP	SUBSEA	тор	PROD. Z.		<u> </u>							
EKWAN RIVER SEVERN RIVE U ORDOV 4 CHURCHILL R BAD CACHE 4 PRECAMB 5	R 3490 303 4591	-1173 -2993 -3413 -4226 -4514 -4829 -5061 -5093			NO DRILI *Vicinity:						itoba e 82	-	
WELL COMPLE	E TED				CNLFDC, LOGS EST. T.D COPYRIG			CONTRA	CTOR	#139		LTD.	

						•		· · · ·	
	<u>COMPANY</u> Aquitaine Co	ompany	of Cana	da Ltd.	JUC.	EMR 139	30	nd c 11 58 40 086 45	0
	CLASS New Field Wildcat				<u>GRID: 58°40' N. 86°45' N. UNIT C SEC 11</u>				
	<u>CONT</u> . Pentagone #8	32 <u>prov</u>	HB Off	shore	WELL	Aquit e	t al Polar	Bear C-11	
	LOGS DIL, FDC-CNI	L, SLC-	GR, HDT		<u>co.or</u>	<u>p</u> .Lat 58 ⁶	⁰ 30'04.35"	N Long 86 ⁰ 47'18.48" W.	
	ISSUED September 22	2/76							
	FORMATIONS	LOG	s/s		WD	560 '	RT	. 77' COMP.	
-	Sea Floor/Quaternary	637 K	B B			SPUD	Sep 21/74	B ROct 20/74 Oct 20/74	
-	Middle Devonian	1250	-1173			T .D.	5170'	30 x 710 c-585	
	Mid. Devon Upper			Į		IN	Pre-Camb	20 x 1227 c-1750	
	Kenogami	2320	-2243			P.8.		13 3/8 x 3081 c-2225	
	Siluriaa-Ekwan Rvr	3070	-2993			T.V.D.			*,
\mathbf{v}	Silurian-Severn Rvr	3490	-3413			STATUS	s ABANDONED	ZONE	
Ĭ	Upper Ordovician					1.P.	·	-	
	Red Head River	4303	-4226						
~	Upper Churchill Rvr	4591	-4514						al Terretore
~	Bad Cache	4906	-4829			CORES:			
	Pre-Cambrian	5138	-5061				NO CORES C	UT ·	
									-
	STATUS HIST	ORY		D M	Y	PERFS:			
	}		<u> </u>	<u>/</u>					
	<u>►</u>		·/·	<u> </u>	†		Abandoned,	not perforated	
	вт - 12 в dd - тор со разли со				†		No oil or	gas shows	
			+						
						ŗ			
	و الم	l	<u> </u>	1					;
	DRILLSTEM TESTS:								• "
	NO DRILL STEM TESTS	RUN							
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		•			1				
- 14									



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1. INTRODUCTION

1.1 Summary

The Polar Bear C-11 well was drilled in the Hudson Bay between September 21, 1974 and October 18, 1974. The Operator was Aquitaine Company of Canada Ltd., based in Calgary, acting on behalf of the "Hudson Bay Group", which was comprised of:

- Aquitaine Company of Canada Ltd.

- Atlantic Richfield Canada Ltd.

- Elf Oil Exploration and Production (Canada) Ltd.

- Petrofina Canada Ltd.

- Shell Canada Ltd.

- Sogepet Ltd.

The selected drilling unit was the semi-submersible "Pentagone 82" (P-82), owned and operated by Sea and Land Drilling Contractors Inc., a subsidiary of the Forex-Neptune group.

The P-82 was towed from the "Aquitaine et al Walrus A-71" location by the Tidewater tug supply vessel, "Supreme Tide", to this new location.

Purpose

The purpose of this wildcat was to evaluate the entire Paleozoic section of a structure discovered by seismic reflection. The structure consists of a huge monoclinal block, tilted to the S.W. and limited by a fault on its northeastern flank. The areal closure was estimated to be 122 sq. miles with vertical closure of approximately 400'. The main objective was the Attawapiskat, a reefal facies developing in the upper part of the Silurian section. Other reservoirs were expected deeper.

Summary of Drilling Operations

Two joints of 30" conductor pipe were set after drilling a 36" hole, to cover the upper part of the glacial drift.

A 20" conductor casing was then set at 1,227'. A 17-1/2" hole was drilled to 3,105' and a 13-3/8" casing was set at 3,081', before entering the expected Attawapiskat formation.

Drilling of a 12-1/4" hole was resumed to T.D. (5,170') with no further casing set, due to the lack of reservoir.

Results

The Attawapiskat is either eroded or partly present under a tight facies. No other significant reservoirs were encountered. No gas or oil shows were observed.

The well was plugged and abandoned, the P-82 was then towed to Cape Chidley $(64^{\circ}W - 61^{\circ}N)$, by two Tidewater tug supply vessels, between October 20th and October 31, 1974. On October 31, 1974, the tow was resumed with the "Oceanic" tug, to the North Sea.

Details of the first leg of the tow are given in a separate report, namely, "Towing of the P-82 Out of the Hudson Bay in the Fall of 1974".

AQUITAINE COMPANY OF CANADA LTD

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AQUIT ET AL POLAR BEAR C-11

2. GENERAL DATA

	2.1	Well Name and Number	: Aquit et al Polar Bear C-11
• •	2.2	Maratho (Summo Lloyd's	one 82 (P-82) Semi-submersible type. on - Letourneau shipyard, Brownsville, Texas er 1971 to Fall 1973) Class + 100 A1 (The unit is ice reinforced but no ice cation is available for this type of vessel.)
	2.3	540 - 5th	e Company of Canada Ltd. Avenue S.W. Y, Alberta
	2.4	Atlantic I Elf Oil Ex	e Company of Canada Ltd. Richfield Canada Ltd. xploration and Production Canada Ltd. Canada Ltd. Limited
	2.5	Drilling Contractor:	Sea and Land Drilling Contractors, Inc. (Incorporated in Panama) 8, Aquilino de la Guardia, PANAMA, R.P. Sea and Land Drilling Contractors Forex Neptune Caledon Road, Eastern Wharf DUNDEE DD1 3LW, Scotland Telephone: (0382) 453910 Telex: 76455 - PETROBASE
	2.6	Permit Number: 1426	
	2.7	Drilling Authority:	EMR Number: 139 Date Issued: September 17, 1974
	2.8	<u>Well Location</u> : Hudson Latitud Longitu	e: 58 ⁰ 30'04.352"N
		Locatio	n determined by means of a Decca Lambda "Cesium" system.

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> 2.9 <u>Elevations</u>: R.T./K.B. to Sea Level: 77' Water Depth: 553'

- 2.10 Total Depth: 5,170'
- 2.11 Spudded: September 21, 1974, at 8:30 p.m.
- 2.12 Drilling Completed: October 14, 1974, at 10:30 a.m.
- 2.13 Well Abandoned: October 18, 1974, at 10:00 a.m.

2.14 <u>Rig Released</u>: P-82 under tow back to the North Sea on October 20, 1974, at 9:00 p.m. P-82 released on October 30, 1974, at 6:00 a.m.

- 2.15 Well Status: Plugged and Abandoned
- 2.16 Well Classification: New Field Wildcat
- 2.17 Support Equipment:

Two Tug Supply Vessels:

Names: M/V Supreme Tide and M/V Giant Tide
Owner: Tidewater Marine Service, Inc.
Built: Hatco Verksted A/S shipyard - Ulsteinvick, Norway (Delivered in May 1974)
Classification: Navigation: ABS A1(E) + AMS Towing unrestricted Ice: ABS Class "C" (1971 rules)

One Supply Vessel:

 Name: M/V Federal 6
 Owner: Federal Offshore Services Ltd.
 Built: Star Shipyard New Westminster, B.C., Canada (1972)
 Classification: Navigation: ABS Ocean going A1(E) Ice: ABS Class "A"

One Helicopter:

Type: Bell 212 IFR Model

Owner: Dominion Pegasus Helicopters Ltd. Classification: Licensed for commercial night and instrument flying.

MEMORANDU'M	М	Ε	Μ	0	R	A	П	D	U-M	
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TO: FROM:	<u>M.E. Hriskevich</u> A.J. Brinker	DATE: November 6, 1974
RE:	Aquitaine et al Polar B	ear C-11 Log Evaluation
Well C	bata:	
	Kelly Bushing:	77'
	Kelly Bushing to Sea Fl	oor: 630
-	Casing:	30" to 710'
		20" to 1,227'
·		13 3/8" to 3,081'
	Open Hole:	12¼" to 5,170'
	Logs Run:	Run 1 at 3,105'
		DLL, CNL-FDC, BHC-GR, HDT
		Run 2 at 5,170'
		DLL, CNL-FDC, BHC-GR, HDT, FIT, SRS
	An evaluation of the lo	gs showing porosity, water saturation
and li	thology in the AQUITAINE	ET AL POLAR BEAR C-11 well is included
herein	•	
1,227'	- 1,384' - hole is	too large for logging tools to indicate
	litholog	y.
1,384'	- 1,446' primaril	y shale possibly with some sand.
1,446'	- 1,470' sand gra	ding into limestone and becoming shaley
	near the	bottom of the interval
	some por	osity, approximately 3% is indicated in
	the inte	rval 1,450' - 58'
	water sa	turation 100%

1,470' - 1,480' shale

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	Page 2.	· · · · · · · · · · · · · · · · · · ·
	1,480' - 1,486'	- dolomite with 7% porosity and 100% water saturation
	1,485' - 1,495'	- limestone
·	1,495' - 1,506'	- shale
ţ	1,506' - 1,520'	- limestone, shale, gypsum
	1,520' - 1,550'	- limestone and shale
	1,550' - 1,590'	- limestone and shale
	1,590' - 1,690'	- limestone shale dolomite with gypsum indicated
		at 1,661' and 1,668' and 1,684'
	1,690' - 1,695'	- dense dolomite
	1,695' - 1,730'	- porous limestone averaging 10% with 100% water
		saturation
	1,730' - 1,782'	- limestone with shale
	1,782' - 1,808'	- porous limestone averaging 8% with 100% water
1		saturation
	1,808' - 1,875'	- shaley limestone
	1,875' - 1,970'	- shaley dolomite
	1,970' - 2,323'	- primarily shale
	2,323' - 2,337'	- dolomite
	2,3371 - 2,3801	- shale
	2,380' - 2,466'	- salt
·	2,466' - 2,528'	- primarily dolomite with some 5% porosity $Sw = 100\%$
	2,528' - 2,660'	- gypsum
	2,660' - 2,674'	- dolomite with some shale
	2,694' - 2,726'	- shale
	2,726' - 2 840'	- salt
	2,840' - 2,900'	- salt with radioactive material
	2,900' - 3,034'	- salt
	3,034' - 3,046'	- limestone
	3,046' - 3,076'	- salt

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*	Page 3.	
	3,076' - 3,110'	- large hole
	3,110' - 3,140'	- dolomite with gypsum
	3,140' - 3,190'	- dense dolomite
	3,190' - 3,204'	- gypsum
	- 3,250'	- dolomite
	3,250' - 3,274'	- dolomtie with an average of 3% porosity Sw = 100
	3,274' - 3,281'	- gypsum
	3,281' - 3,446'	- dolomite
	3,446' - 3,464'	- dolomite with up to 5% porosity $Sw = 100\%$
	3,464' - 3,468'	- gypsum
	3,468' - 3,500'	- dolomite with increasing amount of shale
	3,500' - 3,804'	- dense dolomite
		- on indication of porosity, 3,540' may be due to
\mathbf{h}		and a second sec
• ·	3,804' - 3,809'	- gypsum
	3,809' - 3,820'	- dolomite with some shale and possibly some gypsum
	3,820' - 3,853'	- dolomite averaging 3% porosity with a minimum
	2	water saturation of 50%.
	3,853' - 3,880'	- dense dolomite
	3,880 - 3,906'	- dense limestone
×	3,906' - 3,912'	- anhydrite
	3,912' - 3,915'	- porous dolomite (5%) or gypsum
	3,915' - 3,920'	- anhydrite
	3,920' - 3,927'	- dense dolomite
	3,927' - 3,938'	- anhydrite
	3,938' - 3,948'	- dense limestone grading into dense dolomite
1	3,948' - 3,966'	- anhydrite grading into dolomite and gypsum
	3,966' - 3,982'	- dense dolomite
	3,982' - 4,006'	- dolomite with porosity averaging 3% Sw = 100%

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Page	4.		·	

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	4,006' - 4,050'	- limey dolomite, dense
	4,050' - 4,070'	- dolomite
	4,070' 4,116'	- limestone, dense
	4,116' - 4,128'	- anhydrite
• .	4,128' - 4,155'	- dolomite with some gypsum
	4,155' - 4,164'	- dolomite with 4% porosity Sw = 100%
	4,164' - 4,170'	- limestone dense
	4,170' - 4,176'	- dolomite with 3% porosity Sw = 100%
	4,176' - 4,186'	- dense limestone
	4,186' - 4,230'.	- aypsum
	4,230' - 4,296'	- limestone, dense
	4,296' - 4,306'	- gypsum
,	4,306' - 4,356!	- salt
`	4,356' - 4,378!	- gypsum
	4,378' - 4,382'	- dolomite
	4,382' - 4,385'	- gypsum
	4,386' - 4,425'	- dolomite with 2-3% porosity Sw = 100%
	4,425' - 4,235'	- anhydrite
	4,435' - 4,439'	- dolomite dense
	4,439' - 4,458'	- gypsum
	4,458' - 4,470'	- dolomite 1% porosity Sw = 100%
	4,470' - 4,492'	- dolomite with gypsum and anhydrite
	4,492' - 4,514'	- dolomite, dense
	4,514' - 4,548'	- anhydrite
,	4,548' - 4,558'	- gypsum
	4,558' - 4,580'	- dolomite dense
_	4,580' - 4,592'	- shale
	4,592' - 4,604'	- limestone grading to dolomite

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Page 5.

4,604' - 4,608'	- anhydrite
4,608' - 68'	- dolomite, dense
4,668' - 4,868'	- limestone, dolomite, dense
4,868' - 4,910'	- gypsum
4,910' - 5,124'	- limestone, dense
5,124' - 5,138*	- shale
5,138' - 5,150'	- sand with 1-2% porosity and Sw = 40%

J.B.a.k 2.

VBMcKeown/sgb

.•	AQUITA	AINE	DRILLI	NG TICKET	POLAR BEAR C-11
	RIG	CO ORDINATES	TIMING	CASING	LOGS
	· P - 82	X= 58° 30' 08.37 '' Y= 86°47' 13.15 ''	Commenced · Sept Temporary Halt	21/74 ø 30" at 710"	DLL 1245 - 5156
\sim	GEOLOGIST. B. Tillement	Z Z KB 77 A.M.S.L	Resumption of	ø 20'' at 12.27'	Sonic-GR 1100 - 5166
	A. Pochitaloff		- Duilling =	$\phi = 13\frac{3}{8}$ at 3081	FDC CNI 500 - 5167
	Brought up to date on	Hudson Bay PROVINCE	Temporary Halt + Resumption of	2	HDT 1245 - 5165
	November 1974	Federal waters	Dritting Completed • Oct.	14/74 0 01	
	ISCALE	Porosity	Completio Otr.	·	
	$\begin{array}{c} & & \\$		SHOW-LEST	TILI DE LOSS	
	A B DEPTH	CORE DIP CINADE	340W-1651	UIT)	HOLOGY
	<u> </u>				
	- 000 AATER				
	630			Mud Line	a and a second and a second a
	~~ \				
1 	1000-			No sample:	3
				11Mestone	Y, gypsum and anhydrite,
هميز بورائي	1500		· (Intercalations of: -	limestone, pink, white
	Z m ===				buff, red brown, tight
\cap	- z -1			-	gypsum, anhydrite
	Z 5 /			1730 Limestone, buff - pink	red claystone , bioclastic, tight, rarely
	> Z 2000-		ĺ	1970 slight porous	
.				Red-brown claystone	
				2320 Red-brown dolomite and	halita
		君 -		2465 Limestone, dolo. limest	tone, cream, huff, microy
	× ×	I		cryptox, slightly bitu 2728 Halite	unous, tight
			ł		
12 J					
	→ 3000			3070	
,	z 2,7	74 Ē		Dolomite, white, pink.	beige, microx to cryptox,
	Z X L	4		local sucrosic, hard, t	ight
	< ¥ 3400	,	Very	ain	
			1. 1.	• 1 ₂ Ca - 3490	
			20	bb/h Limestone, grey, brown,	microx or cryptox, tight,
			background	† hard	
	N W REALE		900		
	2 4000 - 1		Small gas kick C1/ +20	Layer of anhydrite	
1	N N		$\frac{C_{1/c_{2}}=30}{AT_{4200}}$		
	4303			A303	
-		기 기 이 니	NO PRESSURE	Ω 4303	
			Verv	Dologitia limestory, the	S to brown
			slight		
			ackaround	c. Limescone, buil, brown,	microx, tight
1 <u>1</u>	1J 4906			5906 ·	-
				Limestone, beige, brown, wh	itish,microx,cryptox,tight
1 1-	5138			5138 Shale and sand	
	Z			Granite	· · · · · · · · · · · · · · · · · · ·
	5500-				
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FORM 5121 -1

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COMPANY OF CANADA LTD.

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Froin	То	Dere C Dere C	S o	No. of Ht. Nan-Parous	Showings 0.G.W.	GEOLOGICAL SAMPLE DESCRIPTION Sheet No
						70%
1250	1260					Brick red brown, silty to sandy, plastic, slightly calcareou clay
						traces of gypsiferous silica (chert) 30% cement
1260	1270					60% red brown clay, traces of gypsum - chert 40% cement
1270	1280		-			50% clay as above, brick red brown orange, locally yellow 50% cement
1280	1295					80% clay, brick red brown; gypsiferous chert 20% cement
1295	1310					85% clay as above; traces gypsum 15% cement
1310	1325			-		85% clay, brick red traces of gypsum 15% cement
1325	1340					85% clay as above (locally yeilow) 15% cement, concretion chert (rare)
1340	1355					100% clay as above gypsum (trace) concretion chert (rare)
1355	1370					80% clay, sandy or silty, brick red 20% gypsum or anhydrite and chert
1370	1385					80% clay, calcareous or micrite, argillaceous, red brown sandy or silty, hard, occasionally soft 20% gypsum
1385	1400					70% micrite, argillaceous, red brown, silty, hard 30% gypsum or anhydrite
1400	1410				-	90% micrite, argillaceous as above 10% gypsum
1410	1420					90% micrite, argillaceous as above 10% fibrous gypsum
1420	1430					90% micrite, argillaceous as above 10% gypsum
1430	1440					100% micrite, argillaceous as above gypsum (traces)
1440	1450					50% limestone, white, buff, micrite, hard, slightly porous 50% micrite, argillaceous as above traces gypsum
1450	1460					80% limestone, white, buff as above 20% micrite, argillaceous, red

SAMPLES NOT LAGGED

SAMPLES LAGGED AT FT. PER MIN.

			ŧ	Ft.	1	GEOLOGICAL SAMPLE DESCRIPTION Sheet No 2
From	То	Core C Ditch D	07	No. of Ft. Non-Paraus		COMPACINE
					00	POLAR BEAR 0-20
1460	1470					90% limestone (4 types) 10% micrite, argillaceous, red
						 Limestone: white, buff, micrite, hard, slightly porous Limestone: rose, purple, argillaceous, hard, silty Limestone: yellow (traces) Limestone: very argillaceous, red brown, silty or sandy,
						slightly porous
1470	1480					20% anhydrite (white) microcrystalline 80% limestone as above (4 types)
1480	1490					Limestone, white, buff, predominantly micrite
1490	1500					Limestone as above, predominantly white
1500	1510					80% predominantly limestone, argillaceous, rose purple, hard, silty, white 20% gypsum or anhydrite
1510	1520					Limestone as above, predominantly rose, purple
1520	1 530					80% limestone, argillaceous, dominantly purple 20% anhydrite
1530	1540.					as above
1540	1550					90% limestone, dominantly white, buff, (micrite) compact; . abundant purple limestone 10% gypsum
1550	1560					90% limestone, white and purple 10% gypsum
1560	1570					Limestone as above traces of gypsum
1570	1580					90% limestone, argillaceous, purple, locally breccia (dominant) 10% clay, brick red, silty
1580	1590					Limestone, white, dominantly purple 10% clay, brick red (sandy or silty) traces anhydrite
15 9 0	1600					Dominantly limestone as above traces anhydrite
1600	1 610					70% limestone 20% anhydrite 10% brick red clay
1610 ·	1620					Limestone white, dominantly purple 30% anhydrite
1620	1630				.	as above, white often purple 20% anhydrite - gypsum

SAMPLES NOT LAGGED

SAMPLES LAGGED AT FT. PER MIN.

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(Dalete as Appropriate)

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		ص ت ه	No. of Ft. Porous	of Ft. 1-Pareus	winge .VV.	GEOLOGICAL SAMPLE DESCRIPTION Sheet No3
From	То	o C C C C C C	2°d	ŽŽ	50 50	POLAR BEAR 0-20
1630	1640					Limestone, dominantly purple salt casts
1640	1650					40% anhydrite 60% limestone, white or purple, dominantly argillaceous concretion brick red, porous (salt?)
1650	1660				 .	80% limestone, as above, white or purple, argillaceous 20% anhydrite
1660	1670					Limestone, white, buff, dominantly dolomitic traces of brick red clay 20% anhydrite
1 670	1680					10% anhydrite, as above abundant aggregates (porous)
1680	1690					as above – brick red clay (traces) 10% anhydrite
1690	1700					50% white anhydrite limestone, white, cream, red brown plus dolomitic; limestone m. brown, micritic, tight
1700	1705					50% anhydrite 50% limestone as above
1705	1710					20% anhydrite 80% limestone, white-rose or red brown, dolomitic, micrite, compact
1710	1715					10% anhydrite 90% limestone as above, white and red brown
171 5	1720					20% anhydrite 80% limestone, dominantly red brown, occasionally calcite veining
1720	1725					10% anhydrite 90% limestone
1 725 ·	1730				-	100% limestone, white rose or red brown fossils
1730	1740					Limestone, argillaceous, red brown, soft
1740	1745					Limestone, white rose, red brown, compact, occasionally silt 10% anhydrite
1 745	1750					Limestone as above . fossils
1750	1760					100% limestone, white rose or red brown, micrite, compact slightly argillaceous or silty, fossils traces anhydrite

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COMPANY OF CANADA, LTD.

SAMPLES NOT LAGGED

SAMPLES LAGGED AT FT. PER MIN.

	From	To	Core Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings 0.6.W.	GEOLOGICAL SAMPLE DESCRIPTION
	1760	1770					as above, fossils vuggy dolomite, abundant
	1770 ,	1780			· ·		100% limestone as above traces of brick red clay .gastropods, fossils
	1780	1790					limestone, white, buff, micrite, locally porous vuggy dolomite (rare) traces of brick red clay, partly plastic
	1790	1800					Limestone, white, buff, micrite, locally slightly porous (partly plastic) fossils
		,					traces of limestone, rose or red brown aggregates (rare) traces of brick red clay
	1 800	1810					Limestone, dominantly white, buff Limestone, rose, yellow or red brown aggregates (rare) traces of red clay (partly plastic 10%) crinoids
	1 810	1815		. :			as above (limestone, dominantly white plus limestone, color varicolored) fossils
	1815	1820				-	as above 80% Limestone dominantly white limestone color-different traces of brick red clay (20%) partly plastic
							Change bit
	1820	1830	· .				80% limestone, white, buff as above fossils – crinoids abundant concretions of brick red clay (20%)
	1830	1 840					80% limestone, white - rose, micrite, compact(partly plastic)
	1 840	1845					Limestone, white-rose as above traces brick red clay fossils
	1845	1850					as above
3	1850	1855					limestone, white-rose, micritic, bioclastic, hard, tight bioclastic – abundant fossils concretion (claystone) traces porosity, silty, calcareous, soft traces of brick red clay

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		-	Core C Datch D		No. of Ft. Non-Porous	Shawings 0.6.W.	GEOLOGICAL SAMPLE DESCRIPTION	sheet No
<u> </u>	From	To	ŭο	2 ñ.	ŽŽ	င်္ဂဝ	POLAR BEAR 0-20	<u>UNTLENTIN</u>
	1855	1860					as above	
	1860	1870					80% limestone as above	
	1870	1875					20% concretions, brick red clay and gy as above	psum .
	1875	1880			-		70% limestone	· .
	1019	1000					30% concretions and claystone - brick calcareous, soft (gypsum)	red, slightly silty,
	1880	1890					70% limestone 30% concretions, claystone	
	1890	1895			ĺ		as above	
	1895	1900					80% limestone, rose 20% concretions, claystone (brick red)	
	<u>1900</u>	19 1 0					as above	
	1910	1915					as above traces anhydrite fossils	
•	1915	1920					as above	
1	1920	1925					as above	·
	1925	1930					80% limestone 20% claystone, slightly silty, calcare bioclastic, micritic, white-rose, hard	ous, brown or red, , tight
	1930	1960					as above	
	1960	1970					70% limestone 20% claystone 10% grey yellow, siliceous; limestone yellow, argillaceous content	friable, micritic
	1 970	1980					40% limestone, rose 40% siliceous limestone 20% claystone	
-	1980	-19.90					50% partly plastic, red brown, slightl 10% limestone as above 40% limestone, siliceous	y calcareous, silty
	1990	2320					Claystone, brown red, occasionally mau slightly calcareous, very silty, plast	
-	2320	2330					40% claystone as above 60% dolomite, red brown, occasionally grey, brown, micritic, medium hard, ti dolomite cryptoxln, cream	purple, buff, cream ght; traces of
	, 							

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From	То	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Perous	Showings 0.G.W.	GEOLOGICAL SAMPLE DESCRIPTION	Sheet No6
2330	2335					40% Claystone	
						60% dolomite	
2335	2340					20% claystone 80% dolomite	
2340	2350					40% claystone 60% dolomite	
2350	2360					70% claystone 30% dolomite	
2360	2370					60% claystone 40% dolomite	
2370	2375					20% claystone 10% dolomite (red brown, cream, buff) 70% anhydrite, white, light grey	
2375	2380					40% claystone 10% dolomite 50% anhydrite	· · ·
2380	2390					30% claystone 30% dolomite 40% anhydrite	
2390	2400					50% claystone 10% dolomite SALT FROM 40% anhydrite	2380' - 2465'
2400	2410					40% claystone 20% dolomite 40% anhydrite	
2410	2420					as above	
2420	2430					30% claystone 30% dolomite 40% anhydrite	. · · ·
24 30	2440					30% claystone 30% dolomite 30% anhydrite 10% traces limestone, white, cream, fi	able
2440	2450					30% claystone 30% dolomite traces shale, green-g 40% anhydrite	rey, soft, no. cal.
2450	2460					20% claystone 10% shale 40% dolomite, predominantly buff, beig 30% anhydrite crinoids, coral	2

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	From	То	Cora C Ditch D		No. of Ft. Non-Porous	Shewings '0.6.W.	GEOLOGICAL SAMPLE DESCRIPTION Sheet No. 7 CONFIDENTIAL POLAR BEAR 0-20
	2460	2470					10% claystone 10% shale 20% dolomite, buff, light, brown, occasionally grey/white, translucid, hard, voids, cryptoxln 60% anhydrite
	2470	2475					10% claystone and shale 20% limestone, buff, very hard, blocky, cryptoxln, tight 20% dolomite 50% anhydrite
	2475	2480					10% claystone 10% shale 20% dolomite 30% anhydrite 30% limestone, buff, cryptoxln
	2480	2485					20% dolomite 10% claystone 20% anhydrite 50% limestone, cream, light brown, microxln, cryptoxln, plus limestone as above, very hard, voids
Ŋ	2485	2490					10% claystone 10% dolomite 10% anhydrite 70% limestone (voids dominant)
	2490	2495					traces claystone 10% dolomite 10% anhydrite 80% limestone (voids dominant)
	2495	2500		, , , ,			10% dolomite anhydrite (traces) 90% limestone, oolitic, buff, cream, micritic, tight, med. hard
	2500	2505					10% claystone 20% dolomite, white, grey, microxln, hard 70% limestone (3 types)
	2505	2510		•			20% claystone 20% dolomite, white grey 60% limestone, cryptoxln, oolitic
	2510	2515			, , , ,		20% claystone 20% dolomite 60% limestone, dominantly cryptoxln
	2515	2520			:	. .	20% claystone 20% dolomite 60% limestone (3 types)

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FORM 5121 - 1 .

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6			00 9-5	No. of Ft. Porous	No. of Ft. Non-Perous	wings S.VV.	GEOLOGICAL SAMPLE DESCRIPTION Sheet No8
	From	To	e ty Dicu	Ża	ŻŻ	50	POLAR BEAR 0-20
	2520	2525					20% claystone 20% dolomite 60% limestone (voids dominant)
	2525	2530					20% claystone 10% dolomite 70% limestone (dominantly oolitic)
	2530	2540					10% claystone 10% dolomite 80% limestone (3 types) becoming dolomitic
	2540	2550					10% claystone dolomite traces 90% limestone (3 types) as above
	2550	2560					10% claystone traces dolomite 90% limestone (3 types) corals -
	2560	2570					10% claystone traces dolomite 90% limestone (dominantly cryptoxln, tight) corals
r	2570	2580					10% claystone 10% dolomite 80% limestone (cryptoxln dominant)
	2580	2590					100% limestone, porous traces claystone and dolomite traces of asphalt
	2590	2600					100% limestone, porous traces as above
	2600	2610					100% limestone, cream, light brown, microxln - cryptoxln voids, buff, tight, hard, porous)
	2610	2620					100% limestone as above, light brown - dark brown, microxln cryptoxln voids, very hard
				-			Change bit
	2620	2630					Dolomitic limestone, micròxln, medium brown, tight, locally voids, very hard.
	2630	2640	-				as above
	2640	2650					Dolomitic limestone, med. brown, microxln, tight, locally porous, very hard.
	2650	2655					as above
1	2655	2660					dolomitic limestone, med. brown, microxln, tight 10% limestone, dark brown, bituminous, microxln, soft

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From	, To	Core C Dutch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings 0.G.W.	GEOLOGICAL SAMPLE DESCRIPTION Sheet No9
		<u> </u>				
2660	2665					as above - traces por.
2665	2670		-		•	as above
2670	2675					Dol. limestone, light – medium brown, microxln, tight and limestone, dark brown, bituminous as above
2675	2680					limestone, light-med, brown, microxln, tight - locally porous traces limestone, dark brown, bituminous, soft corals
2680	2685					as above - trace bituminous limestone
2685	2690					as above
2690	2695					as above – no bituminous limestone
2695	2700				-	as above
- 2700	2705					as above
2705	2710					as above
2710	2715				-	90% limestone 10% shale cream, med. hard or soft, calcareous
2715	2720					50% limestone, light - med. brown, microxln, tight, locally porous, hard (20% + 30% = 50%) claystone, red brown, very soft, calcareou occasionally silty, plastic
2720	2725					30% limestone 10% dolomite 10% anhydrite 50% claystone
2725	2730				•	as above
2730	2740					80% claystone 20% limestone
2740	2750					80% claystone 20% limestone
2750	2760					as above
2760	2770					60% claystone 40% limestone, brown, cream, med. brown, grey, hard, micrit argillaceous, tight
2770	2780					40% claystone
2780	2790					60% limestone Fishing SALT ON THE BIT 50% claystone 50% limestone

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From	Τo	Cort C Ditch D	No. of Ft. Porous	Non-Porous	Showings 0.0.W.	GEOLOGICAL SAMPLE DESCRIPTION POLAR BEAR 0-20	sheet No10 () () NFT() ENTIAL
2790 2800	2800			-		70% claystone 30% limestone SALT	
2000	2010					SALI	
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	From	То	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings 0.6.W	GEOLOGICAL SAMPLE DESCRIPTION	
2	2810	2820					Salt - white, clear, xln	
	2820	2830					traces of claystone, red brown as above	· · ·
	2830	2840					as above	
	2840	2850					as above	
	2850	2860					as above	
	2860	2870					as above	
	2870	-2880					as above	· .
	2880	2890					as above	
	2890	2900					as above	
	2900	2910					as above	
	29 1 0	2920					as above	
	2920	2930					as above	
	2930	2940					90% salt 10% claystone	
	2940	2950					70% salt 30% claystone	
	2950	2960					60% salt 40% claystone	
	2960	2970					60% salt 40% claystone	
	2970	2980					60% salt 40% claystone	
	2980	2990					60% salt 40% claystone	
	2990	3000					60% salt 40% claystone	
0	3000	3010					70% salt 30% claystone	

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From	To	Core C Ditch D	No. of Ft Porous	Non-Porcus	Shewings 0.G.W.	GEOLOGICAL SAMPLE DESCRIPTION
3010	3020					60% salt 30% claystone 10% dolomitic shale, red, light brown, hard, blocky
3020	3030					aș above
3030	3040					40% salt 40% claystone 10% shale 10% limestone light grey, hard, micritic, argillaceous, bituminous traces
3040	3050			2		as above
3050	3060					as above
3060	3070					as above
3070	3080		- 			<pre>10% salt 30% claystone 10% shale 10% limestone 40% dolomite, white, pure, hard, massive, brittle, cryptoxle tight, locally porous</pre>
3080	3090					traces of salt 30% claystone 10% shale 10% limestone 50% dolomite white as above and dolomite buff, cream, hard, massive, microxln, occas. quite porous
3090	3095					10% shale 30% claystone 60% dolomite, porous
3095	3100					20% claystone 80% dolomite, porous
3100	3105			 		as above 13 5/8" casing
3105	3110					10% cement 90% dolomite as above

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From	То	Core C Ditch D	No: of Ft. Porous	No. of Ft. Non-Poraus	Shewing: 0.6.W.	GEOLOGICAL SAMPLE DESCRIPTION Sheet No13
3110	3115	•				20% cement 80% dolomite as above
3115	3120					90% cement 10% dolomite as above traces claystone
3120	3125			,		90% cement 10% dolomite as above traces claystone
3125	3130					80% cement 20% dolomite as above traces claystone
3130	3135					50% cement 50% dolomite as above traces claystone
3135	3140					50% cement 50% dolomite as above
3140	3145					40% cement 60% dolomite as above
3145	3150			-		40% cement 60% dolomite as above
3150	3155					10% cement 90% dolomite as above
3155	3160					10% cement 90% dolomite, white, microxln, pure, hard, tight, locally porous
3160	3165					traces of cement 100% dolomite as above
3165	3170					as above
3170	3175					as above
3175	3180					as above
3180	3185				,	10% cement 90% dolomite, locally porous (rare)

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		ل مان م	No. of Ft. Porous	No. of Ft. Non-Porous	Showings 0.G.W.	GEOLOGICAL SAMPLE DESCRIPTION	sheet No. 14
From	То 	Dic.	b Z d	ŽŽ	50 50	. POLAR BEAR 0-20	
3185	3190			1 		10% cement 90% dolomite as above	
3190	3195					10% cement 90% dolomite, white, microxln, pure porous	, hard, tight, locally
3195	3200					traces cement 100% dolomite	
3200	3210					as above	
3210	3215			1		as above	
3215	3220					as above	· · · ·
3220	3225					as above	
3225	3230					as above	
3230	3235					as above	
3235	3240					as above	
3240	3245					as above	
3245	3250					as above	
3250	3255					as above	· · · · · · · · · · ·
3255	3260					as above	
3260	3265					as above	
3265 .	3270					as above	
3270	3275					as above	
3275	3280					Dolomite white, microxln, hard, tip	nt - locally slight por
3280	3285					as above	
3285	3290					as above	
3290	3295					as above	
3295	3300					as above	

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	From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Srewings 0.6.W.	GEOLOGICAL SAMPLE DESCRIPTION Sheet No. 15
	3300	3305					as above
	3305	3310					as above
	3310	3315					as above
	3315	3320					Dolomite, whitish, microx, hard, tight, occas. porous
					 		NEW BIT
	3320	3325					Dolomite, predominantly white, pink, beige, cryptoxln, pure, very hard, tight, locally slightly porous
÷	3325	3330					as above
	3330	3335				:	as above
	3335	3340					as above
	3340	3345					as above
5	3345	3350					Coral recrystallized
1	3350	3355					as above
	3355	3360					as above
	3360	3365					as above
	3365	3370					as above
	3370	3375					traces of dolomite, pink
	3375	3380					85% dolomite, white, as above 15% dolomite, pink
	3380	3385					85% dolomite, white, as above 15% dolomite, pink
	3385	3390					20% dolomite, pink 80% dolomite, white, as above
	3390	3395				. 	traces of dolomite, pink Dolomite, white, as above
	3395	3400					Dolomite, white, beige
	3400	3405					as above
				<u> </u>	<u> </u>	Ļ	

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			ا د د	of Ft. us	No. of Ft. Non-Paraus	Showings 0.G.W.	GEOLOGICAL SAMPLE DESCRIPTION Shuer No16
	From	To	Dore	No. of Porous	żż	5 0.0	POLAR BEAR 0-20
	3405	3410					as above
	3410	3415					as above
	3415	3420					as above
	3420	3425					as above
	3425	3430					as above
	3430	3435					as above
	3435	3440					as above
	3440	3445					as above traces of dolomite, grey, siliceous, cryptoxln, very hard
	3445	3450					as above presence of coral
	3450	3455					Dolomite, white, beige, as above Dolomite, grey, siliceous, very hard, tight
1	3455	3460					as above
	3460	3465					as above
	3465	3470					Dolomite, grey, siliceous, very hard, tight Dolomite, white and pink presence of corals
	3470	3475					as above
	3475	3480					astabove
	3480	3485					Dolomite, grey-beige, occas. white, very hard, massive, brittle, cryptoxln, tight, no porosity; locally vugular porosity
	3485	3490					Dolomite, dominantly grey-beige Dolomite, pink-white as above
	3490	3495					Dolomite, grey-heige
	3495	3500					Dolomite, grey - glauconite
6	3500	3505					Dolomite, grey, beige, occas. white, very hard, massive brittle, cryptoxln, tight, locally vugular - glauconite

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From	То	Core C Ditci D	No. of Ft. Porous	Non-Paraus	Shewincs 0.G.W.	GEOLOGICAL SAMPLE DESCRIPTION
3505	3510					Dolomite as above and limestone grey, brown, beige, occas. yellow/brown, cryptoxln, very hard, tight — glauconite
3510	3515					40% dolomite as above 60% limestone as above Glauconite
3515	3520					30% dolomite 70% limestone Glauconite
3520	3525					30% dolomite 70% limestone Glauconite
3525	3530					20% dolomite 80% limestone Glauconite
3530	3535					20% dolomite 80% limestone
3535	3540					20% dolomite 80% limestone, light beige
3540	3545					20% dolomite 80% limestone, light beige and brown/yellow, purple/brown
3545	3550				•	100% limestone traces of dolomite
3550	3555 -					90% limestone 10% dolomite
3555	3560					100% limestone
3560	3565					100% limestone, beige, grey/brown, occas. yellow/rose red, tight, hard, brittle, cryptoxln, very hard, no porosity
3565	3570					Limestone as above, showing conchoidal fractures
3570	3575					as above
3575	3580					90% limestone 10% dolomitic limestone, siliceous

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From	То	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Shewings 0.6. v.	GEOLOGICAL SAMPLE DESCRIPTION Sheet No. 18
3580	3585					80% limestone 20% dolomitic limestone, siliceous
3585	3590					70% limestone 30% dolomitic limestone, siliceous
3590	3595				. •	Limestone, beige, white, creamy-white, occas. brown - tinted yellow, pink, very hard, microxln - cryptoxln, tight
3595	3600	1				as above
3600	3605					as above
3605	3610			- - - - -		as above, dominantly creamy-white
3610	3615					as above, dominantly creamy-white
3615	3620					as above, dominantly creamy-white
3620	3 625					as above, dominantly brown
3625	3630					as above, dominantly brown
3630	3635					as above, dominantly brown
3635	3640					as above, dominantly brown
3640	3645					as above, dominantly creamy-white
3645	3650					as above hut fossiliferous echinoderms, crustaceans (?) radiolaria, ostracods (?), etc
3650	3655					Limestone, creamy-white, microxln, very hard, tight
3655	3660					as above
3660	3665					as above
3665	3670					as above
3670	3675.					as above
3675	3680				as	as above
3680	3685					as above
3685	3690					Limestone, creamy-white, microxln to cryptoxln, very hard, tic traces of limestone, bioclastic, argillaceous, fossiliferous (echinoderms, crustaceans)

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From	То	Core O Datch O	No. of Ft. Porous	No. of Ft. Non-Porous	Showings 0.6.1w.	GEOLOGICAL SAMPLE DESCRIPTION
3690	3695					as above
3695	3700					as above
3700	3705					as above
3705	3710					same lithology presence of Brachiopods
3710	3715			 .		as above and white chert, occas. brown
3715	3720					as above white chert
3720	3725					as above
3725	3730					as above
3730	3735					as above
3735	3740					Limestone, brown, cryptoxln, hard, tight, with traces of che
3740	3745					Limestone, medium brown, cryptoxln, hard, tight, with traces chert
3745	3750					Limestone, medium brown, cryptoxln, hard, tight, rare chert
3750	3755					as above
3755	3760		,			Limestone, brown, cryptoxln, hard, tight, bioclastic (echino- derms)
3760	3765		-			Limestone, medium brown, cream, white, heige, cryptoxln, very hard bituminous traces (?) traces of grey chert; fossils
3765	3770					Limestone as above
3770	3775					Limestone as above traces of white chert
3775.	3785					as above
3785	3800 -					Drilling with seawater (no samples)

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			Ŧ.		,,	GEOLOGICAL SAMPLE DESCRIPTION Sheet No. 20
From	To	Cere C Ditch D	No. of Porous	No. of Non-Por	Showing: 0.6.W.	POLAR BEAR 0-20
3800	3805					50% dolomite, light grey, calcareous, moderately hard, cryptoxln - microxln 50% dolomite, beige- cream, calcareous, mod. hard, cryptoxln - microxln
3805	3810					60% dolomite, grey 40% dolomite, beige
3810	3815					90% dolomite, calcareous, light grey, dark brown, white cryptoxin-microxin, med. hard, slightly argillaceous; no poros 10% limestone
3815	3820					90% dolomite 10% limestone
3820	3825					60% dolomite 40% limestone
3825	3830					20% dolomite as above with brachiopods 80% limestone, med. brown, microxln-cryptoxln, med. hard to he slightly argillaceous; no porosity
3830	3835					90% limestone 10% dolomite, calcareous, dark brown, cryptoxln-microxln, med hard to hard
3835	3840					as above
3840	3845					80% dolomite, light grey as above 20% limestone
3845	3850					60% dolomite 40% limestone
3850	3855			-		20% dolomite 80% limestone
3855	3860					Limestone, beige, cream, med. brown, microxln- cryptoxln, har
3860	3870					as above
3870	3875					90% calcareous dolomite to dolomitic limestone 10% limestone
3875	38 80					20% dolomite 80% limestone
3880	3885					Limestone, light - med. brown, beige, cream, microxln, hard tight

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h.,		Core C Ditch D	Na. of F. Porous	No. of Ft. Non-Perous	Shewines 0.6.W	GEOLOGICAL SAMPLE DESCRIPTION Shee	HO. 21
From	То		Zà	22	ದೆಂ 	POLAR BEAR 0-20	with Harbary 1 is the
3885	3890					as above	
3890	3895					as above	
3895	3900					as above	
3900	3905					as above	
3905	3910					as above	
3910	3915					70% limestone, med. brown, microxln, hard, 30% anhydrite, white	tight
3915	3920					20% anhydrite 30% dolomitic limestone, grey, buff, micro 50% dolomite	xln, hard, tight
3920	3925					20% anhydrite 20% dolomitic limestone 60% dolomite	
3925	3930					10% anhydrite 30% dolomitic limestone 60% dolomite	
3930	3935					20% anhydrtie 40% limestone 40% dolomite	· ·
3935	3940					70% anhydrite 20% dolomite 10% limestone	
3940	3945					60% anhydrite 40% limestone	
3945	3950		· · ·			70% limestone 30% anhydrite	
3950	3960					30% dolomite, buff, cryptoxln, hard, tight 20% dolomite, pure white, macrocryst. or s slightly porous 50% anhydrite, bluish-grey	
3960	3970					50% dolomite to dolomitic limestone, buff, locally pelletoidal, tight, hard 20% dolomite, pure white as above 30% anhydrite	cryptoxln - micro

SAMPLES NOT LAGGED

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FORM 5121-1 .

AULIHANNE COMPANY OF CANADA LTD.

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From	То	Ditch D	03	No. of Ft. Non-Porous	Shewings 0.G.W.	GEOLOGICAL SAMPLE DESCRIPTION	
3970	3980					as above	•
3980	3990					Mainly: Dolomite, beige to buff, cry hard, tight, slightly pyriti limestone.	
						Minor: - dolomite, crystalline, pur - white gypsum	e white, slightly porcu
3990	4000					as above	
4000	4010				-	80% dolomitic limestone to limestone, microxln-cryptoxln, locally microbrecc 10% minor whitish, crystalline dolomit 10% white sucrosic gypsum	. to pelletoidal
4010	4020					as above	· .
4020 ·	4030					80% limestone to dolomitic limestone, brown, cryptoxln, locally hard, tight 20% dolomite; crystalline gypsum	beige, grey to light
4030	4040					as above	
4040	4050					90% limestone, beige, light grey, whit tight 10% gypsum and anhydrite	ish, med. hard to hard
4050	4060					Limestone, mainly grey-brown to beige, Traces of anhydrite	cryptoxln - microxln
4060	4065					90% limestone and dolomitic limestone 10% anhydrite	as above
4065	4070					as above and white calcite and gypsum	
4 070	4075					as above but the limestone is locally	microbrecc.
4075	4080					50% limestone, brown, brittle, cryptox 40% limestone to dolomitic limestone, 10% anhydrite and gypsum	
4080	4085				ļ	as above	
4085	4090					90% limestone, brown 10% limestone to dolomite, grey to bei	ge

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FORM 5121-1

COMPANY OF CANADA LTD.

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Ì	From	То	Core C Ditch D	. 0.0	No. of Ft. Non-Porous	Shewings 0.G.W.	GEOLOGICAL SAMPLE DESCRIPTION Sheet No23
-	4090	4095		-			90% limestone brown, as above 10% anhydrite and gypsum Traces of limestone to dolomitic limestone, grey to beige as above
	4095	4100					Limestone, light to med. brown, cryptoxln to microxln, hard alternating with: Limestone, grey, creamy white, cryptoxln – microxln, mod. hard Traces of anhydrite and gypsum
	4100	4105					80% limestone, brown 20% limestone, dark grey-brown, microxln, slightly dolomitic
	4105	4110					as above
	4110	4115					as above
	4115	4120					90% limestone, light to med. brown, creamy white, as above 10% limestone, dark grey to b r own, as above
	4120	4125					as above
	4125	4130					90% limestone as above, becoming dolomitic 10% limestone to dolomite, light grey, mod. hard, microxln Traces of anhydrite and gypsum
	4130	4135					as above
	4135	4140、					90% limestone, light to med. brown, dolomitic, cryptoxln, very hard, no porosity 10% limestone, grey to creamy white, dolomitic, microxln to cryptoxln, mod. hard; no porosity Traces of anhydrite and gypsum
	4140	4145					as above
	4145	4150		•			Dolomitic linestone as above to dolomite Traces of anhydrite and gypsum
	4 1 50	4155					75% dolomitic limestone to dolomite, light brown to beige, predominantly pelletoidal, lesser amount (20%) of cryptoxln type as above, very hard 5% anhydrite
	4155	4160					95% dolomitic limestone as above; slight porosity in pelletoida type 5% anhydrite

FORM 5121 -1

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	From	То	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Poraus	Showing: O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION Sheet No. 24
	4160	4165			,		Dolomite to dolomitic limestone as above, increasing in cryptoxln type (50%) 5% anhydrite
	4165	4170					80% dolomite, light brown, cryptoxln to crystall. (in that case, slightly porous) hard, pelletoidal or calcarenitic (20%)
	4170	4175			1.		as above
	4175	4180		of silt 10% c dolor silts	t 10% red store		same dolomite, less detrital
	4180	4185					Dolomite, cream to light brown, mainly cryptoxln, hard, tight
	4185	4190					about 20% of white, crystal. dolomite, in addition to the light brown dolomite
	4190	4195					70% dolomite, light brown 30% white dolomite
	4195	4200	-				as above
	4200	4205					Dolomite (80%) rarely dolomitic limestone, tan to light brown, cryptoxln to microxln, tight, hard 20% pure white, crystal. dolo. (very slow reaction with HCl)
	4205	4210	d s			as above	
	4210	4215					Dolomite as above, locally finely banded
	4215	4220					85% dolomite, occas. limestone (dolomitic), tan to light brown, cryptoxln to microxln, loc. pellet, tight, hard 15% pure white, crystall. dolo.
	4220	4225					70% dolomite as above 30% white dolomite
	4225	4230.					70% dolomite, tan to light brown as above 20% dolomite, pure white 10% siltstone, red, dolomitic (cavings?)
	4230	4235		Å,			as above
(4235	4240					60% dolomite, tan, locally very calcareous 30% dolomite, white 10% siltstone, red, dolomitic (casts of salt dissolution)

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	From	То	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Perous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION	Sheet No. 25
	424Ó	4245					as above	
	4245	4250					as above	
	4250	4260					80% dolomite, light cream to buff	
-							10% white dolomite 10% siltstone, red (cavings?) Traces of anhydrite	
	4260	4270				-	as above	
	4270	4275					60% dolomite, light grey, buff, light microxln, tight, hard 20% limestone, light grey, microxln, t 10% dolomite, white 10% siltstone, red	·
	42 75	4280					60% dolomite, light grey to white, mic 40% limestone, light grey to cream, mi Traces of red siltstone	
	4280	4290		-			30% dolomite 70% limestone Traces of red siltstone	
	4290	4300		-			20% dolomite, more light grey 80% limestone red siltstone	
	4300	4310					50% limestone, mainly beige to buff, c tight 50% dolomite, light grey, cryptoxln, m	
	4310	4320					30% limestone, beige 60% dolomite, light grey, silty to arg med. hard, tight 10% siltstone, dolomitic, red (cavings	
	4320	4330					30% limestone, beige 40% dolomite, light grey 20% white, crystall, calcite and dolom 10% siltstone, red gypsum; soft pasty blebs of K compound	
	4330	4340					30% limestone 30% dolomite, light grey, more silty a tight 20% calcite and dolomite, white	

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FORM 5121 -1

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	From	Το	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Perous	Shewings O.u.W.	GEOLOGICAL SAMPLE DESCRIPTION Sheet No. 26 CONFIDENTIAL POLAR BEAR 0-20
-	4330	4340 (cor	it)				10% siltstone, red (cavings) Blebs of K compound ? (whitish, soft, pasty) 10%
	4340	4350	.		•		poor sample - not representative (very little return)
	4350	4360					New element - 40% dolomite, irregularly colored, dark brown to black to tan, microxln, hard, tight (possible bitum.) 40% alternating beige, grey, whitish dolomite and limestone as above 20% cavings
	4360	4370					as above
		·					-Change of Bit
	4370	4375					10% dolomite, dark brown, bituminous 60% dolomite, cream to buff, microxln to cryptoxln, hard tight, brittle 30% dolomitic shale, calcareous, blue-grey, with tiny black dots, fine grained, soft
	4375	4380					10% dolomite, dark brown, bituminous (test with CHCL ₃)
	•						80% dolomite, cream 10% dolomitic shale, calcareous, blue-grey
	4380	4385					100% dolomite, cream, brittle, microxln, hard, tight
	4385	4390			, ,		100% as above, locally slightly calcareous
	4390	4395					as above
	4395	4400					Very good cuttings 100% dolomite as above, more calcareous no cavings at all
	4400	4405					as above
	4405	4410					100% dolomite, cream, microxln, brittle, locally calcareous, hard, tight Cuttings exceptionally good
	4410	4415					same lithology. Actually, limestone in the process of dolomitisation
	4415	4420					as above
	4420	4425					as above

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SAMPLES NOT LAGGED

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FORM 5121 - 1

COMPANY OF CANADA LTD.

	From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Perous	Showings 0.G.W.	GEOLOGICAL SAMPLE DESCRIPTION
	4425	4430	-	1		-	50% dolomite, calcareous as above 50% shale, silty, dolomitic (calcimetry 42,48,50) with very fine grains of black mineral, pasty, soft, blue-grey
	4430	4435					50% dolomite, calcareous/dolomite/limestone, cream, microxln, hard, tight 40% shale, silty, dolomitic 10% soft gypsum, translucent
	4435	4440					80% dolomite, calcareous/dolomite/limestone, cream (same layers) as above 20% silty dolomitic shale, blue-grey, harder than above gypsum
	4440	4450					80% dolomitic limestone, cream 10% silty shalv dolomite, blue-grey (with fine black dots) 10% gypsum, translucent
	4450	4455					80% dolomitic limestone as above 10% limestone, same characteristics as above 10% gypsum and anhydrite
r	4455	4460					Mainly: dolomite to dolomitic limestone, beige to light brown, microxln, apparently not porous
	4460	4465					same lithology, but more calcareous
	4465	4470					50% Limestone, light - med. brown, microxln, hard, no visible porosity 40% Limestone, white to creamy white, microxln, mod. hard, no porosity 10% dolomite, light to med. brown, pure white, hard, microxln no porosity, slightly calcitic
	4470	4475					trace dolomite as above 60% limestone as above 40% dolomite, calcareous, med. grey, microxln, argitlaceous no porosity
	4475	4480					80% dolomite, prey as above 10% dolomite, brown as above 10% limestone, brown, creamy white as above
	4 480	4485					30% dolomite, grey 20% dolomite, brown 40% limestone, brown, creamy white 10% anhydrite

SAMPLES NOT LAGGED

SAMPLES LAGGED AT FT. PER MIN.

FORM 5121-1 ۰

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۲				 •-				Sheet No. 28
Ì	From	To	Core C Ditch D	No. of F Porous	No. of Ft. Non-Porous	Shewings 0.6. W.	GEOLOGICAL SAMPLE DESCRIPTION POLAR BEAR 0-20	CONFIDENTIAL
	4485	4490					70% limestone as above 10% dolomite, grey	
							20% dolomite, brown becoming calcitic	
	4490	4495					as above	
	4495	4500					80% limestone, light to med. brown, as 20% dolomite, brown as above, becoming	
	4500	4505					as above	
	4505	4510					Limestone, light to med. brown, white occas. dolomitic, microxln, hard.	- creamy white, buff-gr
	4510	4515					as above	
	45 1 5	4520					100% limestone, light - med. brown, bu occas. dolomitic, nod - very hard, no v	
	4520	4530					50% dolomitic limestone as above 50% anhydrite and gypsum, white to lig	ht blue-grey
	4530	4540		. •			15% dolomitic limestone, light brown a 85% anhydrite and gypsum, whitish, <u>+</u> t	s above ranslucent
	4540	4545					40% dolomitic limestone, beige 60% anhydrite and gypsum	
	4545	4550	-				65% dolomite to dolomitic limestone 35% anhydrite and gypsum	· .
	4550	4555					50% dolomitic limestone and limestone 40% anhydrite 10% dolomite, shaly and silty, blue-gr	
	4 555 -	4560					60% dolomitic limestone to dolomite, b brown, brittle, microxln, hard, tight 35% limestone, as above 5% anhydrite and dolomite	
	4560	4565	-				as above	
	4565	4570					60% dolomite as above 40% limestone as above	•
	4570	4580					30% dolomite as above 70% limestone as above	

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From	Το	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Shewings 0.6.W.	CEOLOGICAL SAMPLE DESCRIPTION Sheet No. 29
4580	4590					20% dolomite, cream to tan, microxln, hard, tight 30% limestone, cream to tan, microxln, hard, tight 50% limestone, light blue-grey, slightly dolomitic, argillaceous, med. hard
4590	4595					20% limestone as above 10% dolomite as above 70% limestone, blue-grey, argillaceous
4595	4600		-			20% dolomite as above 20% limestone, beige as above 60% limestone, blue-grey, argillaceous
4600	4610					as above
4610	4620					20% dolomite, buff to light brown, argillaceous, microxin, traces of porosity 80% limestone, beige cream to light blue-grey, locally argill- aceous, tight traces of anhydrite
4620	4630					10% dolomite as above. 90% limestone, only beige and light brown
4630	4640					50% dolomite as above 50% limestone as above
4640	4650					20% dolomite as above 80% limestone, beige to light brown to whitish
4650	4655					as above with traces of dark blue-grey dolomite
4655	4660					50% dolomite as above 50% limestone as above
4660	4665					as above traces of gypsum
4665	4670					20% dolomite as above 80% limestone as above traces anhydrite and gypsum
4670	4675			· .		40% dolomite as above 60% limestone
4675	4680					80% limestone as above 20% dolomite as above

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	Erom	То	Tore C Ditch D	No. of Ft. Porous	No. of Ft. Non-Parous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION Sheet No30
2	<u></u>	,			<u> </u>	100	POLAR BEAR 0-20
	4680	4685					90% limestone 10% dolomite
	4685	4690					as above
	4690	4700					as above
	4700	4705	-				90% limestone, light to med. brown, white-cream, microxln, occas. cryst., hard, (white-cream softer than brown) no visible porosity 10% dolomite as above
	4705	4710					100% limestone as above, occ. slightly dolomitic trace of dolomite as above
	4710	4715					as above
	4715	4720					as above
	4720	4725					as above
	4725	4730					limestone as above, predominantly microxln
	4730	4735					as above
	4735	4740		-	-		limestone, locally slightly dolomitic, brittle, microxln med. hard to hard, tight, cream to light brown
	4740	4745		i			as above
	4745	4750					limestone, locally slightly dolomitic, light grey to cream, microxln, hard, tight
	4750	4760					as above
	4760	4770		- -			80% limestone, tan to buff as above 20% limestone, whitish to light grey, soft
	4770	4775			•		60% limestone, hard, buff 40% limestone, soft, whitish, light grey
	4775	4780					50% limestone, hard, as above 50% limestone, soft as above
	4780	4785					40% limestone, buff 60% limestone, soft, light grey
	······································	<u> </u>				. 	Change of Bit

FORM 5121 - 1

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COMPANY OF CANADA LTD.

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	From	To	To U U U U U U U U U U U U U U U U U U U		No. of Ft.	Showings	GEOLOGICAL SAMPLE DESCRIPTION Sheet No31
	4785	4795					40% limestone, buff, light brown, microxln, hard, tight 50% limestone, whitish, light grey, microxln, soft 10% limestone, dolomitic, blue-grey, black specked (cavings?
	4795	4800					60% limestone, buff, hard 40% limestone, soft, whitish
	4800	4805					50% limestone, tan, hard 50% limestone, whitish, soft
	4805	4810					as above
	4810	4820					60% limestone, tan, hard 40% limestone, soft, white-grey
	4820	4825	l	:		-	as above
	4825	4830					60% limestone, buff grey, hard, microxln to xln, tight 40% limestone, white-grey, microxln, softer
	4830	4835					as above
۱	4835	4840					60% limestone, buff, grey, hard, predominantly crystalline 40% limestone, white-grey as above
	4840	4845				•	70% limestone, buff-grey as above 30% limestone, white-grey as above
	4845	4850					as above
	4850	4855					as above
	4855	4860					60% limestone, buff grey as above, becoming very dark grey- brown 40% limestone white-grey as above
	4860	4865		-			as above
	4865	4870					30% limestone, white-grey, soft as above 50% limestone, buff grey, microxln, hard, tight 20% limestone, dark grey brown, microxln, hard, tight
	4870	4875					40% limestone, white-grey as above 50% limestone, buff-grey as above 10% limestone, dark grey brown as above
	4875	4880					40% limestone as above dolomite to dolomitic limestone, light to med. brown xln = microxln, very hard, tight (50%)

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			ەت مەر	of Ft. Us	of Ft. -Parcus	VV Southe	GEOLOGICAL SAMPLE DESCRIPTION Sheet No 32
•	From	To	Dite:	Poro.	zz	0.0	POLAR BEAR 0-20
	4875	4880 (con	E)				dolomite – dolomitic limestone, light grey, microxln, very hard, tight (10%)
	4880	4885					30% limestone as above 40% dolomite, brown as above 30% dolomite, grey as above
	4885	4890				-	20% limestone as above, predominantly white-grey, soft type 50% dolomite, brown as above 30% dolomite, grey as above
	4890	4895					40% dolomite, light to med. brown, buff-grey as above 60% dolomite, light to med. grey as above
	4895	4900			- -		50% dolomite, variegated grey and blackish, microxln, brittle, hard, tight 40% dolomite, med brown, occas. black specked, microxln, hard, tight 10% limestone, tan to light brown, platy, hard, tight
	4900	4910					60% dolomite, beige to light brown, microxln, hard 40% dolomite, grey, med. hard
	4910	4920					40% dolomite, beige 40% dolomite, grey 20% limestone to dolomitic limestone, creamy, cryptoxln, hard, tight
	4920	4925	-				40% dolomite, heige to light grey 60% dolomitic limestone or limestone, dark brown to dark grey bioclastic, microbrecciated, microxln to crystall.
	4925	4930					10% dolomite, beige to light grey 50% limestone, dark brown as above 40% limestone, whitish, cryptoxln to microxln, soft, tight
	4930	4935					10% dolomite 60% limestone, beige to brown, biodetrital, nicrobrecc. (occas), microxln to crystall, hard, tight 30% limestone, whitish, soft
	4935	4940					70% limestone, brown to beige, fossiliferous, hard. 30% limestone, whitish, soft
	4940	4950			.		as above
	4950	4955					80% limestone, light brown, beige, occas. pseudobrecc. 20% limestone, whitish, soft

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	From	То	Core C Ditch D		No. of Fl. Non-Perous	Shewings 0.0.W.	GEOLOGICAL SAMPLE DESCRIPTION Sheet No. 33
-	4955	4960					
				ĺ			as above
	4960	4970		-			as above
	4970	4975					60% limestone, beige-tan, hard - no more breccia neither bioc 40% limestone, whitish, soft
	4975	4980					80% limestone, light to med. brown, hard 20% limestone, whitish, soft
	4980	4990					60% limestone, light to med. brown, microxln to cryst. hard tight, occas. pseudo microbrecc. 40% limestone, whitish, soft
	4990	4995					as above
	4995	5000					as above
	5000	5010			-		50% limestone, beige-brown, locally, brecciat, and bioclast. 50% limestone, whitish, soft
	5010	5020					as above
	5020	5030					40% limestone, light brown, hard 60% limestone, whitish, soft
	5030	5040					as above
	5040	5050					as above
	5050	5060					50% limestone, light brown, hard 50% limestone, whitish, soft
	5060	5065					as above
	5065	5070					as above
	5070	5075					as above
	5075	5080					as above
	5080	5085		-			as above
	5085	5090					60% limestone, brown as above 40% limestone, whitish, soft
	5090	5095					50% limestone brown 50% limestone, white

SAMPLES LAGGED AT Survey FT. PER MIN.

FORM 5121 -1

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	From	То	Core C Ditch D	No. of Ft. Non-Perous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION Sheet No. 34
-	5095	5100				60% limestone, white-cream, soft - firm, microxln, no visible porosity, occas. black specks/streaks 40% limestone, light to med. brown, microxln to xln, hard no porosity - locally bioclastic
	5100	5105				as above
	5105	5110				as above
	5110	5115				as above
	5115	5120				as above
	5120	5125		,		60% limestone, brown, buff-grey 40% limestone, white-cream
	5125	5130			-	55% limestone, brown, buff-grey 40% limestone, white-cream 5% limestone, dolomitic, light grey-buff, microxln, tight, ha
	5130	5135				80% limestone 20% sand: fine to coarse, rounded; well sorted grains of quar 2 sizes - most common: 0.2 mm - less common: 1.5 mm
	5135	5140				40% limestone -30% sand, medium to very coarse (2 mm) -30% shale, green-grey, silty, soft
	5140	5145				angular grains of quartz with mafic minerals (amphibole); White feldspar = granite
	5145	5150				as above with white and black mica = granite
	5150	5155				granite
	51 55	5160				granite
	5160	5170				END OF DRILLING - October 14, 1974.
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DEPARTMENT OF ENERGY, MINES AND RESOURCES RESOURCE MANAGEMENT AND CONSERVATION BRANCH OPERATIONS AND CONSERVATION DIVISION

Offshore Drilling Notice

This Notice is submitted in compliance with Section 52 of the "Canada Oil and Gas Land Regulations". Its approval constitutes the requisite authority to commence drilling operations under Section 4 of the "Canada Oil and Gas Drilling and Production Regulations".

Well Name in full:	αριπτ ετ .	AL POLAR B	Well Information	(B-11)		· /·
				∽		
Operator: Aquit					w 1205	2168
Contractor: Sea and						
Drilling Rig or Unit:						
Location: Unit						58°40′ 86°45
Coordinates: Lat	58°30'08	37" N	Long	86 ⁰ 47'13	3.15 W	
Elevation: RT/KB	77'		Water Dep	oth:		
Approx. Spud Date:						
Anticipated Total Depth:			faaa			· · · · · · · · · · · · · · · · · · ·
Potentially Productive Int						
Age	Name		Lithology		Ter	
Middle Silurian		skat		stone	Top 3.500'	Thickness 200'
Upper Ordovici						.
Lower Ordovisi						
Lower Ordovici	Tinner	· · · · · · · · · · · · · · · · · · ·		••••••	5 7001	POOL Morriman
	Unnar		Unknown		······	800' Maximum
· · · · · · · · · · · · · · · · · · ·	· • • • • • • • • • •		•••••	· • • • • • • • • • • • • • • • • • •	• • • • • • • • • • •	•••••
Casing and Cement Progra				Setting Depth		
Name of String:	0.D	Weight/Ft.	Grade	below seafloor	Ceme	
Conductor	.30"	1" Wall	X52		400 Sa	cks Class G
Conductor Csg						
Surface Csg 1	L3-3/8"6	8#	K55	2,740'	2,200 Sa	cks Class G
Intermediate Csg	9-5/8"	17#M	N80	4,340'	700 Sa	cks Class G
B.O.P. Equipment:	I Stack	21-1/4" X	2000			
	1 Stack	13-5/8" X	10000			•••••
AAPG Well Classification:				• • • • • • • • • • • • • • • • • • •		1
New-field wildcat			• • • • • • • • • • • • • •	• • • • • • • • • • • • • •	••••••	· · · · · · · · · · · · · · · · · · ·
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Signed. Pierre Pour	Tean	- Dri	lling Forema	`		
				· · · · · · · · · · · · · · · · · · ·	· • · · • • • • • • • • • •	
Date: September	13, 1974	Company: Aq	uitaine Compa	any of Canada I	Lta.	••••
(mill	少		Notes			
Five copies of this Notice	and tentative	survey plan shou	ld be submitted for	or each well. Other	requirements and	l procedures are
given in the information c	ircular "Offsho	ore Exploratory	Drilling".			
All Notices should be add and Resources, Ottawa. O	ne copy will h	e returned to the	e management and c Company.	1 Conservation Bran	ch, Department	of Energy, Mines
, m D	• -		· ····································			й. 1



DEPARIMENT OF ENERGY, MINES AND RESOURCES

Approval

OFER ATIONS AND CONSERVATION DIVISION Drilling Authority. EMR# 139 Project No. 8710-A11-4-3



A

MEMORANDUM

CLASSIFICATION

Chief, Operations of Conservation Division, Resource Management of Conservation Branch. YOUR FILE No. 8710-A11-4-1 Votre dossier 8710-A11-4-3

CUR FILE No. Notre dossier 5361-87 5361-88

DATE December 2, 1974

Legal Surveys Division, Surveys and Mapping Branch

FOLD

SUBJECT Sujet

FROM

De

Final Survey Report of Aquitetal Narwhal South 0-58 Aquitetal Polar Bear C-11

We have completed our examination of the subject Wells, and found that the position of Narwhal South 0-58, (Lat. 58°07'59.758"N; Long. 84° 08' 02.963"W) and Polar Bear C-11, (Lat. 58° 30' 04.352"N; Long. 86° 47' 18.489"W) places them in there correct units of Grid Areas 58° 10', 84° 00', and 58° 40', 86° 45' respectively.

These two wells in one survey report has been recorded in Canada Lands Surveys Records as C.L.S.R. No. FB32119

Noted in Leasts

M.M. M.L.

D.R. Slessor, Surveyor General, Legal Surveys Division.

REAL AND CONSTRUCT THERE -sl. (... To: _______ FILE # 5710- 011-File Charged to:



:1	udson Bay - Hudson Strait - 🖽 👘
7	ENT COAST RESOURCE MANAGEN AN CONSERVATION SHARE ENERGY, MINIS AND RESOURCES Tor MUNICAL
	67.7 32 1974 FIL2 # <u>SULD-ALL-4-3</u> File Charged to:
	Gas Drilling and Production
	58°40'; 86°45' -

Last Const

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Offshore Weil Abandonment Progra

RESOURCE MANAGEMENT AND CONSERVATION BRANCH OPERATIONS AND CONSERVATION DIVISION

This program is submitted in triplicate with respect to Sections 15 and 19 of the Canada Oil a Regulations. All depths referenced to Rotary Table (RT) elevation at Mean Local Low Water (MLLW) Well Oata Well Name in Full: ... Aquit et al Polar Bear C-11 - Grid Area: . 30! 04.352" N. . Long . 86⁰ 47! 18.469"W. Final Coordinates: Lat. 58 Date Spudded: 8:30 P.M. September 21. Date Drilling Terminated: 10:30 A.M. October 15, 1974 Date Rig Released:9:00. F.M. . Cet. 20, . 1974 Total Depth: . 2, 170' Casing Record: (Additional space on back of form, if needed) Weight: 0.D. Crade: Depth Set: Cement and Additives: 30" 1" wall B 710' 500 sx Class B + 3% CaCl₂ 0.438 wall X52-K55 1227' 1100 sx Class B 600 sx + 12% Gel 3% CaC12 1200 sx + 10% Gel 68 lbs./ft. K55 / 3081' 2200 sx Class B. 1000 sx neat cement mixed w/salt saturated water. Permeable Intervals: (Additional space on back of form, if needed). Interval: Age/Name: Oil, Gas and Water Encountered: Festador 2657 - 2661 Kenogami from logs no tests 3448 - 3466 Middle Kenogami from logs no tests 5122. - 5138.....Bad Cache... from logs no tests Perforation, Stimulation, Testing and Evaluation Programs: job details to be given on the back of the form. Plugging Program (company) Aquitaine Company of Canada Ltd. from (person) M. G. Yungblut in the Plug No. Interval: Type of Plug: Cement and Additives: Felt? Date and Hour Run: T.D. to 2770' plug set in 3 plus 10% gel stages: 9:00 to 12:45 Oct. 1(a) 2450' 252 sx Class B Nov 12:45 to 14:30 plus 3% CaCl October 16. Additional information, including any variations to the original program dictated by on-the-job considerations, to be given on the back of the form. Certification I certify that the abandonment or suspension program was carried out in full in accordance with good offshore oil and gas field practicest Signed G. Kuhn de Chizelle Title: Drilling Superintendent Ælg Company Aquitaine Company of Canada Ltd. Date October 25, 1974 Acknowledgement 12/2/75 FEB 13 1975

Acknowledgement of this completed forman no way absolves the permittee or lessee of record at the time of drilling from responsibility for an abandonment or suspension program should it prove to be inadequate.

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	Additional Information	Henseement and Congerveries OPERATIONS AND CONSERVATION DIVISION
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Equipment recovered and/or remaining at sea floor:		
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WELL HISTORY REPORT

AQUIT ET AL POLAR BEAR C-11

Resource Management and Conservetter! Branch Department of Finerey, Mines and Resources

RELEASED Purspect to the Canada Off and Gas

Fund Regulations T. 20. 197 0

Direction de la Gestion et de la Conservation Ninistère de 18 mein Activitées Ministère de 18 mein Activitées

PLIBLICATION AUTORISÉE

AQUITAINE COMPANY OF CANADA L'ED vertu du règlement sur les Terres Fetrolières et Gazières du Canada

540 - Fifth Avenue S.W.

Calgary, Alberta

December 1974



Compiled by:

- Andre JOURDAN
- Pierre POUVREAU
- Bernard TILLL JENT

Submitted by:

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Gerard KUHN DE CHIZELLE

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AQUIT ET AL POLAR BEAR C-11

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 - Formation Tester (FIT)
 - Porosity Analysis Coriband

AQUIT ET AL POLAR BEAR C-11

AQUITAINE COMPANY OF CANADA LTD

1. INTRODUCTION

1.1 Summary

The Polar Bear C-11 well was drilled in the Hudson Bay between September 21, 1974 and October 18, 1974. The Operator was Aquitaine Company of Canada Ltd., based in Calgary, acting on behalf of the "Hudson Bay Group", which was comprised of:

- Aquitaine Company of Canada Ltd.
- Atlantic Richfield Canada Ltd.
- Elf Oil Exploration and Production (Canada) Ltd.
- Petrofina Canada Ltd.
- Shell Canada Ltd.
- Sogepet Ltd.

The selected drilling unit was the semi-submersible "Pentagone 82" (P-82), owned and operated by Sea and Land Drilling Contractors Inc., a subsidiary of the Forex-Neptune group.

The P-82 was towed from the "Aquitaine et al Walrus A-71" location by the Tidewater tug supply vessel, "Supreme Tide", to this new location.

Purpose

The purpose of this wildcat was to evaluate the entire Paleozoic section of a structure discovered by seismic reflection. The structure consists of a huge monoclinal block, tilted to the S.W. and limited by a fault on its northeastern flank. The areal closure was estimated to be 122 sq. miles with vertical closure of approximately 400'. The main objective was the Attawapiskat, a reefal facies developing in the upper part of the Silurian section. Other reservoirs were expected deeper.

Summary of Drilling Operations

Two joints of 30" conductor pipe were set after drilling a 36" hole, to cover the upper part of the glacial drift.

A 20" conductor casing was then set at 1,227'. A 17-1/2" hole was drilled to 3,105' and a 13-3/8" casing was set at 3,081', before entering the expected Attawapiskat formation.

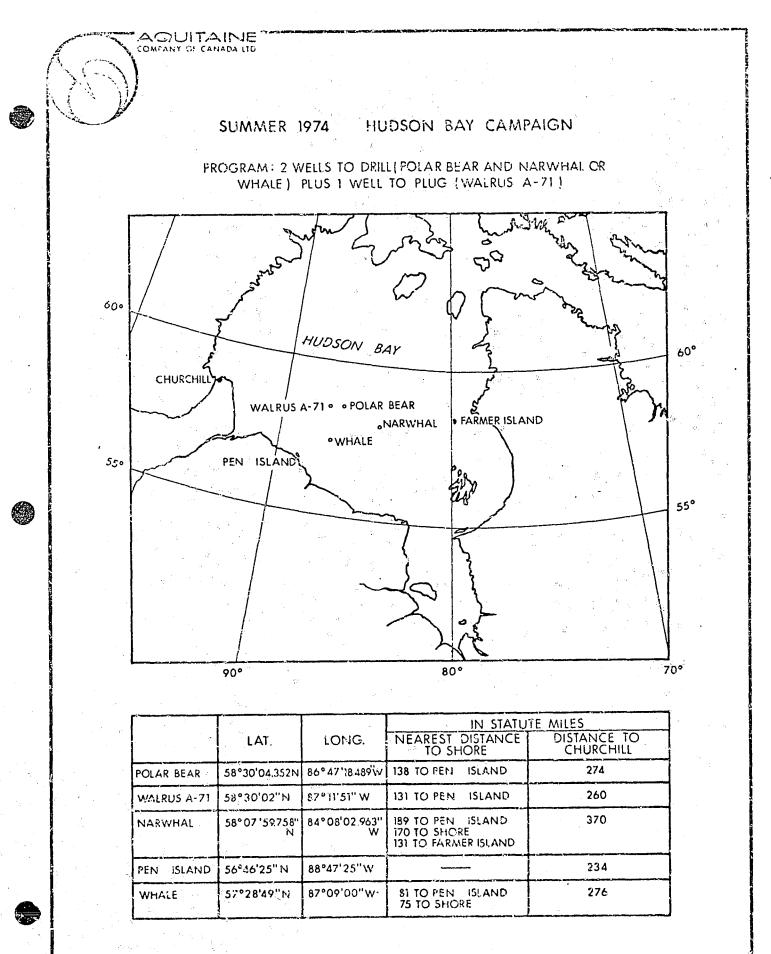
Drilling of a 12-1/4" hole was resumed to T.D. (5,170') with no further casing set, due to the lack of reservoir.

Results

The Attawapiskat is either eroded or partly present under a tight facies. No other significant reservoirs were encountered. No gas or oil shows were observed.

The well was plugged and abandoned, the P-82 was then towed to Cape Chidley $(64^{\circ}W - 61^{\circ}N)$, by two Tidewater tug supply vessels, between October 20th and October 31, 1974. On October 31, 1974, the tow was resumed with the "Oceanic" tug, to the North Sea.

Details of the first leg of the tow are given in a separate report, namely, "Towing of the P-32 Out of the Hudson Bay in the Fall of 1974".



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AQUIT ET AL POLAR BEAR C-11

2. GENERAL DATA

- 2.1 Well Name and Number: Aquit et al Polar Bear C-11
- 2.2 <u>Drilling Unit</u>: Pentagone 82 (P-82) Semi-submersible type. Marathon - Letourneau shipyard, Brownsville, Texas (Summer 1971 to Fall 1973) Lloyd's Class + 100 A1 (The unit is ice reinforced but no ice classification is available for this type of vessel.)
- 2.3 <u>Operator</u>: Aquitaine Company of Canada Ltd. 540 - 5th Avenue S.W. CALGARY, Alberta T2P 0M4
- 2.4 <u>Permittees</u>: Aquitaine Company of Canada Ltd. Atlantic Richfield Canada Ltd. Elf Oil Exploration and Production Canada Ltd. Fetrofina Canada Ltd. Sogepet Limited
- 2.5 Drilling Contractor:

Sez and Land Drilling Contractors, Inc. (Incorporated in Panama) 8, Aquilinc de la Guardia, PANAMA, R.P.

Sea and Land Drilling Contractors Forex Neptune Caledon Road, Eastern Wharf DUNDEE DD1 3LW, Scotland Telephone: (0382) 453910 Telex: 76455 - PETROBASE

- 2.6 Permit Number: 1426
- 2.7 Drilling Authority:

EMR Number: 139 Date Issued: September 17, 1974

2.8 <u>Well Location</u>: Hudson Bay Latitude: 58⁰30'04.352"N Longitude: 86⁰47'18.489"W

Location determined by means of a Decca Lambda "Cesium" system.

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> 2.9 Elevations: R.T./K.B. to Sea Level: 77' Water Depth: 553'

- 2.10 Total Depth: 5,170'
- 2.11 Spudded: September 21, 1974, at 8:30 p.m.
- 2.12 Drilling Completed: October 14, 1974, at 10:30 a.m.
- 2.13 Well Abandoned: October 18, 1974, at 10:00 a.m.
- 2.14 <u>Rig Released</u>: P-82 under tow back to the North Sea on October 20, 1974, at 9:00 p.m. P-82 released on October 30, 1974, at 6:00 a.m.
- 2.15 Well Status: Plugged and Abandoned
- 2.16 Well Classification: New Field Wildcat
- 2.17 Support Equipment:

Two Tug Supply Vessels:

 Names: M/V Supreme Tide and M/V Giant Tide
 Owner: Tidewater Marine Service, Inc.
 Built: Hatco Verksted A/S shipyard - Ulsteinvick, Norway (Delivered in May 1974)
 Classification: Navigation: ABS A1(E) + AMS Towing unrestricted Ice: ABS Class "C" (1971 rules)

One Supply Vessel:

Name: M/V Federal 6 Owner: Federal Offshore Services Ltd. Built: Star Shipyard New Westminster, B.C., Canada (1972) Classification: Navigation: ABS Ocean going A1(E) Ice: ABS Class "A"

One Helicopter:

Type:Bell 212 IFR ModelOwner:Dominion Pegasus Helicopters Ltd.Classification:Licensed for commercial night and instrument flying.

AQUIT ET AL POLAR BEAR C-11

3. DRILLING DATA

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3.1 Drilling Program

COMMENTS AND INSTRUCTIONS AS FOLLOWS:

HUDSON BAY

Drilling Program

(Comments and Instructions for all the wells)

3.2 Position Keeping

10 Tension Mooring Sensors

Make: Martin Decker Type: Dynaline

10 Winches

Make: Brissoneau & Loiz

600 Kips Brake Capacity 340 Kips Low Gear Pull

10 Anchors

Type: 30,000 15s. LWT

10 Anchor Lines

Size:	5,000' of 2-3/4" wire roj	pe
Weight:	13.7 lbs/ft	
Type:	6 x 41 galvanized	

3.3 Subsea Equipment

- Vetco temporary guide base with: 4 main guide lines

- Vatco permanent guide base

- 30" housing with left hand running thread

- 20" housing with left hand running thread

- Vetco 22" single ball flex joint

- Vetco 22" Integral MR-IV marine riser

- 13-5/8", 10,000 MSP High Profile Type SG-1 two hanger housing with left hand running thread

- Vetco 16" single ball flex joint

- Vetco 16" Integral MR-IV marine riser

3.4 Drilling Plant

1 Drawworks

Make: Emsco 3000 HP Model: With automatic catheads Drum Type: Grooved for 1-1/2" line

1 Electromagnetic Brake

Make: Elmageo Model: 7838

1 Sandreel Assembly Mounted on Drawworks

9/16" x 18,000 Sandline

3 Electric Motor Drive

Make: G.E. Model: 752 R Type: Shunt Wound DC Fower: 930 HP nom./1000 HP max.

Maximum line pull at the hook with safety factor minimum of 2 on the weakest part (line).

10 Lines Low Gear: 1,140,000 lbs 8 Lines Low Gear: 906,000 lbs

1 Drilling Line

1-1/2" x 5,900' Type 6 x 19 Extra improved plow steel Nominal breaking strength 103 tons

3.5 Derrick

Make: Continental Emsco Size: 157' x 36' x 36' Type: Dynamic, welded panels, bolted Capacity: API 1,150,000 lbs Hook Load: 685,000 lbs Pipe Racked in Derrick: 425,000 lbs Tensionners Load: 310,000 lbs

Provision for dynamic loading is included in excess of the above values.



3.6 Pumps

2 Hole Pumps #1 & 2

Make and Size: Emsco Triplex F 1600 Driven By: Two 800 HP cont. electric motors GE 752 R Pulsation Dampener: Emsco 20 gallons Strokes: From about 10 to 120 SPM Continuous Max. Pressure Possible: 3423 psi with 7" liner Centrifugal Supercharging Pump: Mission 5 x 6 R

1 Mixing Pump

Make and Size: Emsco D 375 Driven By: One 350 HP electric motor Pulsation Dampener: Emsco 20 gallons

2 Mixing Transfer Pumps

Make and Size: Mission $5 \ge 6$ Driven By: A.C. electric motor

3.7 <u>Compressors</u>

3 Main Air Compressors

Each powered by 120 HP electric motor c/w automatic control. Free air delivery 540 CFM pressure range 125 - 150 psi. Water cooled.

1 Twin Air Dryer

Capacity: 440 SCFM

3 Air Tanks 150 PSI

One 350 cu. ft. for general duty One 210 cu. ft. for BOP unit One 32 cu. ft. for remote controls

3.8 BOP Equipment

First BOP Stack: (21-1/4" x 2000)

1 Bag Preventer

Size: 21-1/4" W.P.: 2000 psi Make: Hydril

Type: MSP, studded on top, with CIW #18 clamp below

1 Surge Dampener

Make: Stewart & Stevenson Type: Passive Capacity: 10 gallons, 3000 psi on close side

1 Drilling Spool

Size: 21-1/4" ID, WP: 2000 psi Outlets: 2 x 3-1/8" with CIW #4 clamp hub Connections: CIW #18 clamp hub, top and bottom

2 Kill Line Valves

Size: 3-1/8" nom. W.P.: 5000 psi Make: Cameron Type: "F" with style A hydraulic operator fail safe to close Connections: CIW #4 clamp hub, top and bottom

1 Kill Line Connector

Size: 3-1/2" nom. W.P.: 5000 psi Make: Vetco Type: Stab type welded

1 Riser Mandrel

Size: 20-3/4" ID W.P.: 2000 psi Make: Vetco Connection: 20" API #6B flange below

1 Bottom Connector

Size: 20-3/4" ID W.P.: 2000 psi Make: Vetco Type: H4 style "D" Connection: CIW #18 clamp hub on top

Second BOP Stack:

(13-5/8" x 10,000)

1 Bag Preventer

Size: 13-5/8" ID W.P.: 5000 psi Make: Shaffer Type: Spherical Connection: CIW #15 clamp hub h

Connection: CIW #15 clamp hub below and 13-5/8" API - 6BX flange above

1 Surge Dampener

Make: Stewart & Stevenson Capacity: 10 gallons 3000 psi on closing side

2 Ram Preventers

Size: 13-5/8" ID

W.P.: 10,000 psi

Make: Cameron

Type: Double U with pressure balanced wedge lock. One set of rams equipped with shear rams, the other three with 5" pipe rams. Connections: CIW #15 clamp hub, top and bottom

4 Choke/Kill Line Valves

Size: 3-1/16"
W.P.: 10,000 psi
Make: Cameron
Type: F with style A hydraulic operator, fail safe to close
Connection: CIW #5 clamp hub, top and bottom

2 Choke/Kill Line Connectors

Size: 3-1/2" nom. W.P.: 10,000 psi Make: Vetco Type: Stab type, welded

1 Riser Mandrel

Size: 13-5/8" ID W.P.: 10,000 psi Make: Vetco Connection: 13-5/8" API - SBX flange

1 Bottom Connector

Size: 13-5/8" ID W.P.: 10,000 psi Make: Vetco Type: H4, style "D" Connection: CIW #15 clamp hub

3.9 Well Kick Report

N/A

3.10 Hole Sizes and Depths

36" hole drilled to 723' 26" hole drilled to 1,250' 17-1/2" hole drilled to 3,105' 12-1/4" hole drilled to 5,170'

3.11 Casing and Cementing Record

30" set at 710' 20" set at 1,227' 13-3/8" set at 3,081'

See casing reports for further details.

3.12 Perforation and Shooting Record

N/A

3.13 Plug Back and Squeeze Cement Jobs

See plug back and abandonment report.

3.14 Drilling Fluid

See Magcobar mud report.

3.15 Fishing Operations

See fishing operation reports.

3.16 Lost Circulation and Gain Zones

See report.

3.17 Drill Cuttings

- The sampled intervals are as follows:

Glazed vials: 1,260' to 5,170' in 10' intervals Unwashed samples: 1,260' to 5,170' in 10' intervals Canned samples: 1,530' to 5,170' in 30' intervals

- Companies receiving a complete set of canned samples are:

Resource Management and Conservation Branch - Bedford, N.S. Aquitaine Company of Canada Ltd.

- Companies receiving a complete set of glazed vials and unwashed samples are:

Aquitaine Company of Canada Ltd. (2 sets of unwashed samples) Atlantic Richfield Canada Ltd.

Shell Canada Ltd.

Elf Oil Exploration and Production Canada Ltd.

Resource Management and Conservation Branch (7 dram vials)

Companies receiving a complete set of glazed vials only are:

Petrofina Canada Ltd.

Sogepet Ltd.

G.S.C. - Institute of Sedimentation and Petroleum (2 dram vials)

3.18 Cores

N/A

3.19 Bit Records and Hydraulics

See report.

3.20 Time Distribution

See Graphical Well Analysis and Time Analysis reports.

3.21 Penetration Rate Log

See Graphical Well Analysis.

3.22 Deviation Plot

See Deviation Survey report and Graphical Well Analysis.

3.23 Abandonment Plugs

See report.

3.24 Well Diagram

See Graphical Well Analysis.

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d.	Drilled-core	,									+		apreme Ti						<u>∲</u>		
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-		17:45	3:00	Pick					<u> </u>								_ 14 - Abai _ 15 - Rep		Curren		
	17:45	24:00	3:15					ant T		nt 11	de to F	-82	to make re	epair t	-		_ 15 - Hep _ 16 - W.T.		Swells/ Directi		
				line	gui	ue o			iue.								17 - Vac		Tempé		
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ž			1						er 1 h								┨ 5 - н.	o	14	4 - Aban	d 24: ()	0 Current	
	7:15	9:00	1:45	1							Trip in	n and	l out t	o rec	over	seat	_		18		<u>,</u>		<u> </u>
				pro	tecto	r.		<u> </u>	·								1		10			·]	NNW_
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l	12:45	14:30	1:45							<u>980'</u>	to 680	(252	2 <u>sx C</u>	lass l	<u>B +</u>		PROG	RAMM	bando.		+	Supi	fort Vessels
	14:30	17.00	2:30					ride)		9.000	l with	500 V	rater -		shed s	stack	& rie			illinen	L	Fed 6	
405	17:00	24:00		-							unload								N BOAF	RD::	53		

8:00 A.M. STATUS: Retrieving risewand BOP stack.

	Crow.out		PHASES	PEN	ст	T TI	ME				DR	ILLI	NG RE	POR	ì		1			1	25
	which over Foundation		105	fi		1	min.					.A	OUITAINE				RIC	G	<u>P-83</u>	DAT	E 16/10/74
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	Drilled-core	d		1	ļ						<u> </u>				ļ					·	
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		сн	ARACTER	ISTICS	4	<u> </u>	l	<u> </u>		ـــــــــــــــــــــــــــــــــــــ	AINS	1	1	_1	l PRO	DUCTS		ON	BOAR		L
	19	<u></u>						20				21	······································	<u> </u>		p	Potab			350	
	W ^t			mini		 maxi			this d		cumul bbls								Vater:	490	1
UNW		VA _	v		Y	v		Mud	~~~~								Fuel:			472	Т
2	Gel 0	10	Sʻ	%	pi	H ·											Turb	o Fu	el: 63	67 gal +	<u>11 drums</u>
	P1,	LC -	S(alid. —	N	aCL -		Ca-	200	0	2420	ļ					Ceme			93	
	22							<u>Cl</u> 2				L					Barit 123	te:		121	
Z	ELEMENTS			_ _				Water								·-···	WEI		D.C.	• D.P	. WIM.D.
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	27 TIME	LOG	ELAPSED	<u>, </u>												E ANAL	YSIS 9	• Mis. c	op.19:1	31 W	EATHER
	ROM	то	TIME					•••••													n <u>52/36</u>
	0:00	19:15	19:15	Lo	ggin	g. I	Dipm	eter,	FIT	and	Veloc	ity sı	irvey.	·							NNW
S	19:15	24:00	4:45	Ru	n in	oper	i en	ded D	.P. f	for a	bando	nmen	t cement	plugs.						1	/fr <u>8/10'</u>
NOTES									 .			<u></u>								Slip jt.	
2																				Current	
		•		8:0	<u>00 A.</u>	<u>M. S</u>	STA	TUS:					3/8" ceme	ent	· · · · · · · · · · · · · · · · ·	Cor					t <u>6/8'</u>
									reta	iner	Mercu	<u>iry K</u>	<u> </u>			 Fest					n <u>NNW</u> ature 19 – 24
																GRAMM				1 32	
															<u></u>	<u>GHAMM</u> Abano	<u>-</u> lonru	nt			pori Vassels
																				<u>]re</u>	e <u>me Tide</u>
406															30 _{PE}	OPLE O	N BOARD	D : <u>6</u>	4	1	

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			^{*i} <u>15.5</u> vp						this d bbl	s	cumul bbls	10 9		<u>ustic</u>					Vater:		505 T	
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_								C12									Barit	te:			121 T	
STRING	22 ELEMENTS	Same	as yeste	rday	•			Wate	r								23 WEI	ібнт	D.C.		D.P.	WEM.D.
STI					مغنى مشهروا حراكش														10000	0 8	36000	266000
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NOTES	11:30	<u>12:00</u> 15:30	0:30		co su l out											.0				- Cur	ren;	
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			•	8:00	<u>) A.N</u>	<u>vi. S</u>	TAI	US:	тце	Jara	tion fo		•		PROC	RAMME Logg				-1		t Vessels
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EACH BIT 9 9 0 1 411 283'/ 75/ Drilled cered 248 24 00 Reed 124 S62 713196 3/14 28:30 80,000 45 550 Drilled cered 0 1 124 S62 713196 3/14 28:30 80,000 45 550 Drilled cered 0 1 0 <td< th=""><th>23</th></td<>	23
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Drilledcored Or illidecored One of the decored One decored One decored	2300
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2 Get 0 4 10 10 5% 0.25 pH 10.5 Mud 6 6 sx Kelsan XC Turbo Fuel: 567 gal + Pr 0.2 tc solid 4.5% Nscl264000 Ca- 240 2020 6 sx Drispac Ccment: 93 22 ELEMENTS Same as yesterday. Water 23 Dc. D.C. D.P. 24 ELEMENTS Same as yesterday. Water 24 Dc. D.P. 100000 8400 24 ECRMATION Bad Cache 25 Cones Deviation 100000 8400 7 TIME LOG ELAPSED Cones Deviation 100000 Wind/K 0:00 24:00 Drilling. 0:00 24:00 Drilling. 0:00 10:0W.C. Wind/K 29 8:00 A.M. STATUS: Drilling at 5,161' (4 - 5'/ hr) 5:H0. 14:Aband Current 6:Cor 15:Rep Swels/fi Silp it. 5:H0. 14:Aband Current 0irection	
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0:00 24:00 Drilling. 2-D 24:00 11-Casing Direction 0:00 24:00 24:00 Drilling. 3-Red 12-Circ Waves / 9 8:00 A.M. STATUS: Drilling at 5,161' (4 - 5'/hr). 4-D.T 13-Fishing Slip jt. 6-Cor 15-Rep Swells/fi REMARKS: Giant Tide has retrieved the 2 piggy back 7-C.T	20/22
Signed 12 · Circ Wores Wight 8:00 A.M. STATUS: Drilling at 5,161' (4 - 5'/hr). 4 · D.T	
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REMARKS: Giant Tide has retrieved the 2 piggy back	
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anchors on DI and D2.	oort Vessels
Drilling and Logging Giant	
406 30 PEOPLE ON DOARD : _64	

			PHASES			•••••					DRI	LLI	NG RE	POR	ī	89 **************			olar B		2. No '	
	Cross out which ever ont applicable		DEPTH ins.	PEN ft.	ET. ins.	1	ME mia.					A	DUITAINE					RIG	P-82		DATE _	13/10/74
	TUTAL	4,6	President Printer and		1	5		TT I TO TO				B	ITS						PARAM	ETERS	5	· · · · · · · · · · · · · · · · · · ·
No	Drilled-eers			153		16	00	Ma	ke	Ø	Тур	e	No.	Nozzles	Cum	ul	Weigh	t R	.P.M.	F lo Rat		Mud Pressure
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UUW			<u>×i 15.5</u> vr					Mud				10		austic	·			iel:			504 7	
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5	22							Cl ₂ Water				l	······				the second second second second second second second second second second second second second second second s	arite: 23	D.C		121 7	WIM.D.
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r S	24			Dire				25							26		l	4 7	75' - 1			
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İ	0:00	11:30	11:30	Dri	lling											2 · D	<u> 16:00</u>)11 - Cat	ing	Di	rection	<u>SSE</u>
S	£	12:15	0:45	Cir	culat	ted a	and f	low c	heck									12 - Cir		<u>w</u>	aves /ft	$\frac{6' - 8'}{1! - 2!}$
NOTES	12:15	12:30	0:15		co si													0 13 · Fis		- Sli	p it	1' - 2'
2	12:30	19:30	7:00	· •				of hol	e and	d ru	n in bi	t #11	- slipped	10'				14 - Ab				
ļ					lling		<u>e.</u>											15 - Rep 16 - W.			ells/ft _ rection	
	19:30	24:00	4:30	Dri	lling	•				 .								17 · Va		1	-	re 24/26
																29			·	32		
ł	<u> </u>			8:0	0 A.	M. 5	TAT	US:	Dril	ling	at 4.9	10'	(10'/hr)			PROGH	<u>AMME</u> Drill					t Vessels
																					iant I	lde
406																³⁰ PEOP	LE ON I	BOARD :	62			
	C																			•		OM 102

	Cross out		PHASES							DRI		NG RE	POR.	1			WELLPO	<u>olar Bea</u>	r No :	21
	tuch ever		UEPTH	PENS ft.		1	ME _min				AC	DUITAINE	و معادل معادل معادل معادل معادل معادل معادل معادل معادل معادل معادل معادل معادل معادل معادل معادل مع				RIG	P-82	_ OATE	12/10/74
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PENETRATION	EACH BIT	6	465	7		8		9	10	11		¹² #10	13		03'/	15 75/)	17		-
PENE	Dritled-ee+		673	208		24	00	Security	<u>r 12-</u>	M8	8	528208	3/14	3,	4:30	80,00		5	550	2200
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	Drilled-core	d		-	<u> </u>	<u> </u>														
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		2_wt_	<u>10.4</u> v *' <u>8</u> v	34				20	day bls	cumul bbls	²¹ 10	sx Ca	ustic			Po D:	otable W	'ater: Nater:	312 T 642 T	۱
MUN			<u>11</u> s					Mud	{	<u></u>							<u>irbo Fu</u> iel:	<u>el: 602</u>	$\frac{gal + 1}{516}$ T	<u>3 drums</u>
								Ca- 24	40	1540							ement:		93 T	
_		Ca = 7	0,000					C12									irite:		<u>121 T</u>	
STRING	22 ELEMENTS	Same	<u>e as yes</u>	terda	<u>y.</u>			Water							<u></u>		23 WEIGHT	D.C.	D.P.	W! M.D.
5	24				·····			25						;	26	[100030	78000	258000
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	<u>ноғ</u> 0:00	ر <i>ז</i> 24:00	TIME 24:00	Dri	lling	 T							i						Direction	
s	0.00		2 1. 00		111112	<u>5</u>									3 - R	ed	12 - Circ		Waves /i	<u>18' - 20</u>
NOTES											<u> </u>	, 							Slip jt	
~				3:0	<u>0 A</u> .	<u>M.</u>	STA'	<u>FUS:</u> Dr	illing	g at 4,7	53'			<u> </u>			14 - Aba 15 - Rep		Current - Swells/fr	241
															_		16 • W.T		Direction	
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406														····	³⁰ PEO	PLE ON E		73		

	Cross out		PHASES							DRI		NG RE	POR.	1			WELLPO	<u>olar Bea</u>	r No :	21
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8:00 A.M. STATUS: Drilling at 3,21 (15'/hr)

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PENETRATION	ross out hich ever of applicable TOTAL Orilled-cored ACH_BIT Orilled-cored Orilled-cored Orilled-cored	DEP ft 3 1,823 2.204 3 1,823 2.204	ins.	PENET. fr. int 381 7 381	s. 1 5 1	TIME <u>h. min.</u> <u>2</u> 30 <u>2</u> 30 <u>2</u> 30	9	ske ghes	ł	Тур 11	A B e	NG RE DUITAINE ITS No.	Nozzles	Cumuł	Weight	Polar 1 13 <u>P-82</u> PARAM R.P.M.	DAT	E <u>28/9/74</u> Mud Pressure
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ž ,	Gel 0 5 Pf. 0.3	10 _14	S%	0	pH _	10.5	Mud				8	sx Cau	gcogel Istic Sc	oda	Fuel		316	T
		. LC	Solic	d. <u></u>	NaCL		Water				55	gal Mag	gconol		Bari		<u>642 gal +</u> 78	<u>15 drums</u> T
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24 F	CRMATION Type . Stoge						25 <u>COR</u>	<u>ES</u>	·			2		26 <u>DEVIAT</u>	<u>ION</u>			
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£			<u>16</u> 5%							6	sx N	lagcog	el	Fue			26 T	1.15.1
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2			<u>19</u> s%					ļ					Drispac	<u> </u>			o Fuel			- 15 drums
	P1,	<u>{</u> Lc	So	lid. <u>4</u>	<u>ö</u> N	₃CL ⁴ ⊆	000	. Water			18	<u>sx</u>	Caustic	<u>Soda</u>		Barit			<u>3 T</u>	
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406	<u> </u>			0:0	<u>U A .</u>	<u></u>	<u>1 A.</u>	0.005	пun	<u>2n t</u>	o test	<u>60-3</u>	/4" BOP s	Lack		20-3/4" DPLE ON B		72		

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PHASES										DRILL	I W	WELLPolar Bear No. 3						
	Cross out DEPTH which ever ft. ins.			PENET. ft. ins.		TIN አ.	nE min.			A	R	ig <u>P-82</u>	0AT	E <u>24/9/74</u>				
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		Vp S%					Mud <u>3 sx Caustic</u>											
	P1,	Lċ _	Sol	id	Nat	CL		Water										
- 1	22 ELEMENTS	Bit/	Float Val	ve/ (	8) 9-	1/2'	۰D.	C / (A) 8-	1/2"	'D C /15	· · · · · · · · · · · / /			23	D.0		Lutur	
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WELL: Polar Bear C-II

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No.	LENGTH	ACCUM. LENGTH	NOTES (WALL-GRADE - NEW OR USED)	No.	LENGTH	ACCUM. LENGTH	NOTES (WALL-GRADE NEW OR USED)
Shoe	1.80			148	4124	1774.97	68 1bs/rt
1	38,79	40.59	68 11s/ft	49	41.15	1816.12	K 55
5	43.12	83.71	К 55	50	40.00	1.856.12	New
Float	1.55	85.26	New	51	31.08	1887.20	
3	39.71	1.24.97		52	38.26	1925,46	
4	40.02	1.65,89		53	38.09	1963.55	
	42.23	208.12		54	35.13	1998.68	
5	1.1.81	249.93			30.24	2028.92	22
7	41.68	291.61		<u>55</u> 56	30.04	2058.96	
9	43.25	334.86	1	57	39.74	2098.70	······································
_10	42.54	371.40	<b>1</b>	58	36.78	21.35,48	
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# BIT RECORD

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## BIT HYDRAULICS

# AQUITAINE

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FORM 5113 - 1

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DEVIATION SURVEY REPORT

FORM 5162-1

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1,810'	1/2 ⁰			<u> </u>
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3,100'	1/4 ⁰			· · · · · · · · · · · · · · · · · · ·
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3,700!	1/2 ⁰	1		
4,360'	1/20	· · · · · · · · · · · · · · · · · · ·		
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5,165'	1/4 ⁰			х 
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#### AQUITAINE HUDSON BAY PROJECT

#### TECHNICAL SECTION

The accompanying Mud Summaries include the following for each respective well:

- 1. Individual mud checks.
- 2. Weekly summary, including comments from Mud Engineers
- 3. Product consumption and cost summary for each well.

#### General Remarks

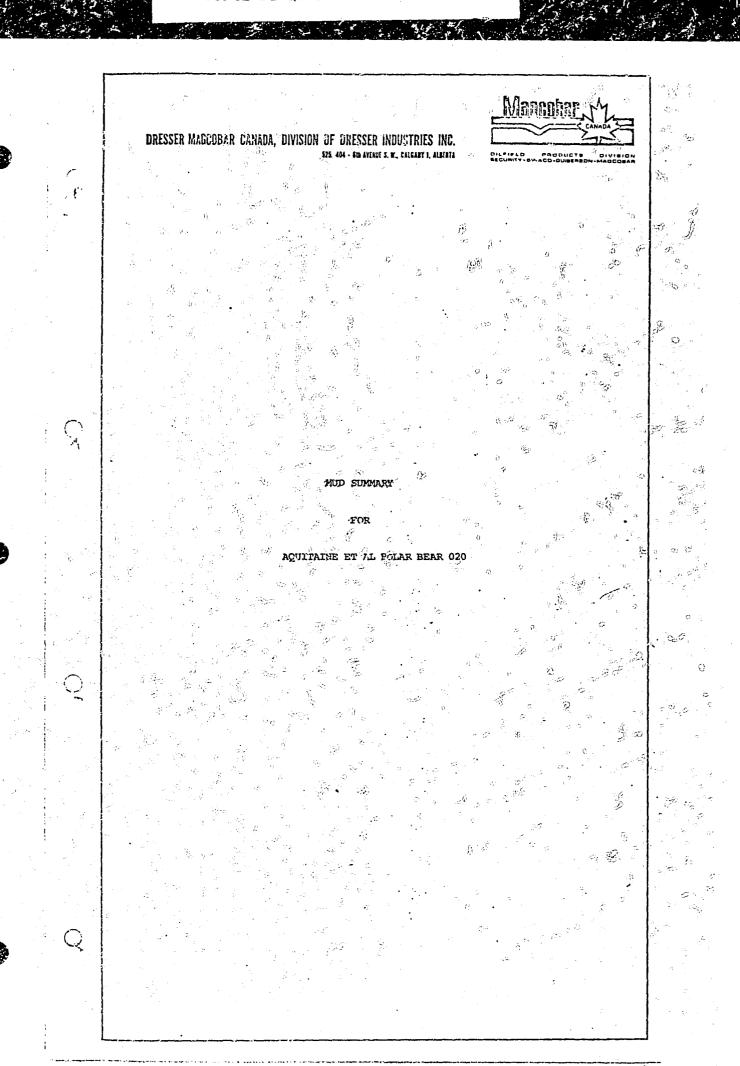
The original Drilling Mud Program as proposed by Craig Willis was basically followed, keeping the mud system quite simple and flexible.

The primary hole problem was intrusion from the calcium chloride water flows as were encountered during the drilling of Walrus in 1969. The drilling mud system was able to control the hole conditions. However, complete containment of the problem was not achieved.

Hole stability did not appear to be a problem and in all probability was due to the high chloride and calcium content throughout along with the special attention given to the hydraulics program.

On two occasions, during the drilling of the Polar Bear test, hole cleaning problems were encountered. The first section at approximately 1500 - 2000 feet when mud shale was encountered and again at about 3700 feet trying to drill with sea water. The system proved sufficiently flexible on both occasions to control the problem.

Further discussions are necessary for future planning on how best to contain the salt water flows. However, due to the high calcium chloride flows, a similar system would again be recommended. POOR COPY COPIE DE QUALITEE INFERIEURE





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## LIST OF MUD COSTS FOR MUD USED RE AQUITAINE

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IURESSER MARCOBAR CANADA, DIVISION OF DRESSER INDUSTRIES INC.

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POLAR BEAR 020

As taken from Weekly Well Summary

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PRODUCT PRODUCT USED	TOTAL AMOUNT
Magcchar 1208 6.23	7,525.84
Magcogel 977 5.85	5,715.45
Delreium Chleride 120 16.62	1,993.20
Spersene	322.56
Caustic Soda 258	3,671.34
Drispac 38 115.46	4,387.48
Kelzan XC 63 190.93	12,028.59
Magreenel 55 gal 11.01	605.55
Balt 1750	9.082.50
Salt Gel 403 5.18	2,118.62
TOTAL MUD COST	\$47,451.13
MUD ENGINEERING SERVICES	4,000.00
	\$51.451.13

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Flowline Temp PF.	Mud Propert	105	Hole and Circulation Data	Swaco Equipment
Time Sample Taken	19250	17:00	Spud Data 21 Seizet	D. Silter
Depth		1510	Fill Last Trip 10 S. 1/ Ft.	D D. Sander
Weight Flow Line	3.6	27	Surface Casing 30 "In. @ 725 FL	Super Screen
Weight Suction	04	91.	Intermediate 2014 In.@ 12.50 Ft.	🗇 Centriluge
Funnel Viscosity (Sec./Q1.)	145	46	Bit Type Bit 5:20 / 7/ - in.	D. Gasser
V.G. Temp. Reading - 0 F.	53	62	Mud in Hole 500 bbis. Tanks 320 bbis.	Adjustable Choke
Fann Viscosity (Cps.)	14.5	17	Total Mud in System 820 bbls.	Super Choke
Plastic Viscosity (Cps.)	7	10	HI Pump Size 7 x / Zin, Min.	D Monitar
Yield Point (lbs./100 Sq. Ft.)	15	17_	H2 Pump Size x In. Min. 27	D Trip Guard
Gel Strength (Initial)	3	4	Bbls./ Stroke Output 2.7 Min.	D P.V.T.
Gel Strength (10 Min.)	17	19	Mud Cycle <u>3</u> Z Min.	📮 Mud Weigher
API Water Loss (cc. in 30 min.)	122	15	Circulating BTM Up / 8 Min.	D Flo-Sensor
Cake Thickness (32nds.)	2	7_	Drill Pipe $5/2$ In. Ann. Vel.	· Ft/Min.
APT HT-HP Fluid Loss (CC/30 mm.)		-	Drill Coller 91/2 in. Ann. Vel.	FL/Min.
CEC (AP) Equiv, #/bbl, Bent.)	1.=	175	Drill Collar In. Ann. Vel.	Ft./Min.
pH, Strip 🗇 🛛 Beckman 🗇	105	10.5	Circ. Pressure 2400 PSI Hydrostatic P	reis PSI
P. Alkalinity (Pf)	./	.2	REMARKS - (Give operation, hole condition, a	nd nature of any problams.)
M. Alkalinity (Mf)			Delling	
Salt @ PPM Chloride @ PPM	122,000	, 1,000	·	
Calcium PPM	1100	1120	O possible sa	It stainsm
Oil Content (% by Vol.)	0	Ò		
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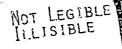
In consideration of the lumishing of this report and oral suggestions, it is agreed that DRESSER MAGCORAR CANADA, DIVISION OF DRESSER INDUSTRIES INC. shall not be liable for any damage resulting from same and it is to be limit namices.

Time 5-mile Taken         // 5/2         Send Date         21         Send Date         23         Send Date         32         Send Date         32         Send Date         32         Send Date         32         Send Date         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33         33 </th <th>OILFIELD PRODUCTS D</th> <th>VISION (SECURIT</th> <th></th> <th>MAGCONANI</th>	OILFIELD PRODUCTS D	VISION (SECURIT		MAGCONANI
Report For Mr.         12:0:02:05:05:05         25:05:05:05           Address         3:05:05:05:05         Address         0:05:05:05         0:05:05:05           Emil: Frant Frait Dir Line + 10:05:05:05:05         Mide Properties         Hole and Circulation Date         Sende Cells           Time Stands Team         17:00:1         Sende Date         0.1         0:05:05:05         0:05:05:05           Weight Stands Team         17:00:1         Sende Cells         0.0         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05 <th></th> <th>· · · · · · · · · · · · · · · · · · ·</th> <th></th> <th>beet</th>		· · · · · · · · · · · · · · · · · · ·		beet
Report For Mr.         12:0:02:05:05:05         25:05:05:05           Address         3:05:05:05:05         Address         0:05:05:05         0:05:05:05           Emil: Frant Frait Dir Line + 10:05:05:05:05         Mide Properties         Hole and Circulation Date         Sende Cells           Time Stands Team         17:00:1         Sende Date         0.1         0:05:05:05         0:05:05:05           Weight Stands Team         17:00:1         Sende Cells         0.0         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05 <td>Well Nome law tarde</td> <td>stal Palac</td> <td>Legal Description</td> <td></td>	Well Nome law tarde	stal Palac	Legal Description	
Report For Mr.         12:0:02:05:05:05         25:05:05:05           Address         3:05:05:05:05         Address         0:05:05:05         0:05:05:05           Emil: Frant Frait Dir Line + 10:05:05:05:05         Mide Properties         Hole and Circulation Date         Sende Cells           Time Stands Team         17:00:1         Sende Date         0.1         0:05:05:05         0:05:05:05           Weight Stands Team         17:00:1         Sende Cells         0.0         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05         0:05:05:05 <td>Common Portains</td> <td>_</td> <td>Contractor Per Lating</td> <td></td>	Common Portains	_	Contractor Per Lating	
Address         Res         Address         List           Bands From PAID The Line of Properties         Hold Properties         Hold and Circulation Date         Dates Early           Time Sumple Taken         / G/V         Soud Date         21         Lighth         D. Sitter           Time Sumple Taken         / G/V         Soud Date         21         Lighth         D. Sitter           Wright Flow Line         // Z         Souries Canny ZO Int. 0         7.25         FL         D. Sitter           Yangh Flow Line         // Z         Burley Cannot Wight Social ZO Int. 0         7.25         FL         D. Sitter           Yuensity Usensity (Grad)         // L         Burley Construction Social ZO Int. 0         7.25         FL         D. Sitter           Yuensity Usensity (Grad)         // L         Burley Construction Social ZO Int. 0         7.25         FL         D. Adjurtable           Yuensity Usensity (Grad)         // L         Burley Construction Social ZO Int. 0         D.2 Gaser         Provide Social ZO Int. 0         Provide ZO Int. 0         D.2 Gaser           Wrid Form (Bs/100 Soc Ft)         // L         Provide ZO Int. 0         D. Monitor         Provide ZO Int. 0         Provide ZO I				
Bindle Turn, Pri (1) Flow Line 2         Kind Preamities         Hole and Circulation Date         Exact Coup           Droth         / 20.1         Soud Date         2 / 200 / 200 / 100         D. Sittle           Droth         / 72.0         Pill Last Trip         U.D. C.(I. Ft. 0)         D. Sittle           Proth         / 72.0         Pill Last Trip         U.D. C.(I. Ft. 0)         D. Sittle           Weight Flow Line         / 72.1         0         D. Sittle         D. Sittle           Weight Flow Line         / 72.1         0         D. Sittle         D. Sittle           Weight Flow Line         / 72.1         0         D. Sittle         D. Sittle           Weight Scalan         / / /         U.G. Trap.         20.1         in C. Centriting           VG. Temp. Reading. 9 F.         // / /         Wind to: 57.0         Dask. Trah.         D. Sittle           Plant Viccontry (Cru1)         // /         Internet Stroke         D. Trok Count         D. Trok Count           Prior Monethy (Cru1)         // /         Bit Stroke         D. Trok Count         D. Troke           Gal Strength (10 Min.1)         // /         Bit Stroke         D. Troke         D. Troke           Gal Strength (10 Min.1)         // /         Bit Stroke <td< td=""><td></td><td>De la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la constru</td><td><i>P</i> ·</td><td></td></td<>		De la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la construcción de la constru	<i>P</i> ·	
Flooring Term		<u> </u>	Address Address	
Droth         / 76 0         Fill Last Trip         U.S. £.((		Mud Properties	Hole and Circulation Data	Sweco Equip
Weight Flow Line         9.3         Surface Grain 3.0 in 0         7.2 for 0         Surface Grain 3.0 in 0         Family 1.0 for 0         Surface Grain 3.0 in 0         Family 1.0 for 0         Surface Grain 3.0 in 0         Family 1.0 for 0         Surface Grain 3.0 in 0         Family 1.0 for 0         Surface Grain 3.0 in 0         Family 1.0 for 0         Surface Grain 3.0 in 0         Family 1.0 for 0         Surface Grain 3.0 in 0         Family 1.0 for 0         Surface Grain 3.0 in 0         Family 1.0 for 0         Surface Grain 3.0 in 0         Family 1.0 for 0         Surface Grain 3.0 in 0         Family 1.0 for 0         Surface Grain 3.0 in 0         Family 1.0 for 0         Family 1.0 for 0         Surface Grain 3.0 in 0         Family 1.0 for 0         Family 1.0 for 0         Family 1.0 for 0         Family 1.0 for 0         Family 1.0 for 0         Family 1.0 for 0         Family 1.0 for 0         Family 1.0 for 0         Family 1.0 for 0         Family 1.0 for 0         Family 1.0 for 0         Family 1.0 for 0         Family 1.0 for 0         Family 1.0 for 0         Family 1.0 for 0         Family 1.0 for 0         Family 1.0 for 0         Family 1.0 for 0         Family 1.0 for 0         Family 1.0 for 0 <t< td=""><td>Time Sample Taken</td><td>1:00</td><td>Spud Date 21 Sept.</td><td>D. Sitter</td></t<>	Time Sample Taken	1:00	Spud Date 21 Sept.	D. Sitter
Multiple         1/2         Instant Subscription         1/2         Instant Subscription           Weight Suction         7/4         Instant Subscription         0. Construct         ""><td>Droth</td><td>1760</td><td>Fill Lass Trip No C.C. Ft.</td><td>D. Sander</td></td<>	Droth	1760	Fill Lass Trip No C.C. Ft.	D. Sander
Funnel Vaccusty USe: (Dt.)         District (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 secon	Weight Flow Line	9.3	Surface Casing 30 In. @ 725 Ft.	C Super Scre
Funnel Vaccusty USe: (Dt.)         District (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 secon	Wright Suction	9.4	Interiradiate ZU" In. @ 12.25 Ft.	🗇 Centrifuga
Add Trans. Instanting 0.7.       Im Medic (2) 52 bits. Tanks. 350 bits.       Im Adduction.         Finin Viscosity (Cos.)       ///       Total Mudin System       '//.00 bits.       Super Con.         Plantic Viscosity (Cos.)       //       Plantic Stockins.       Im Mudin System       '//.00 bits.       Super Con.         Plantic Viscosity (Cos.)       //       Plantic Stockins.       Im Mode System       Monitor         Yield Point (Bas/100 Sq. Ft.)       //       Plantic Stockins.       Im Mudi System       Nonitor         Get Strength (Lottal)       //       Plantic Stockins.       Im Mudi System       Nonitor       Trip Gain         Get Strength (Lottal)       //       Stockins.       Output :>??       Yistof       Mud Weig         AFt Vater Loss (Lot. and onn.)       //       Creatiling BTM Up :??       Yistof       Mud Weig         AFt Vater Loss (Lot. and onn.)       //       Duit Coltic:       Im.       Ann. Vol.       //.00         Carter Instances (32mds.)       //       Duit Coltic:       Im.       Ann. Vol.       //.00         PH H74P Fund Loss (CCOB mull       Im.       Duit Coltic:       Im.       Ann. Vol.       //.00         PH H74P Fund Loss (CCOB mull       //       Phistis Premas       Stockin Premas	Funnel Viscosity (Sec./Qt.)	7.00	Bit Type Bit 17/2 in.	🗐 D. Gasser
Plastic Visconity (Eps.)         ///         Pump Size         I. Minn.         I. Monitor           Yirid Point (Ibs/100 Sa, Ft.)         //         //         Pump Size         I. Minn.         II         Monitor           Get Strength (Latus)         //         //         Pump Size         II. Minn.         II. Minn.         II. Minn.         P.N.T.           Get Strength (Latus)         //         //         Strokes         Dutput 2 7         Minn.         P.N.T.           Get Strength (Latus)         //         //         Strokes         Dutput 2 7         Minn.         P.N.T.           AP: Vater Loss (Icc. m30 mm.)         //         //         //         Mod Orcle         ?/         //         Mud Weg           Cake Thickness (32nds.)         //         //         Diff Colum         ?/         //         //         //         //         //         //         //         //         //         //         //         //         //         //         //         //         //         //         //         //         //         //         //         //         //         //         //         //         //         //         //         //         //         //         // <td>V.G. Temp. Reading - 0 F.</td> <td></td> <td>Mud in Hole 550 bbls. Tanks 350 bbls.</td> <td>🛛 Adjustable</td>	V.G. Temp. Reading - 0 F.		Mud in Hole 550 bbls. Tanks 350 bbls.	🛛 Adjustable
Print Vicenity (Ep.1)         //*         Primp Size         x         In.         Monitor           Yrid Point (Ibs./100 Sq. FL)         //.         Primp Size         x         In. Min.         D         Trip Guan           Gal Strength (Linus)         //         //         Streke         Dutput 2 7         BMs.         D         PV.01.           Gal Strength (Linus)         //         //         Streke         Dutput 2 7         BMs.         D         Multicity           APT Vater Loss (cc. m 30 mm.)         //5         Circulating BTM Up         ?4         Multicity         P/5         Multicity         Multicity         P/5	Fann Viscosity (Cps.)	16		Super Chai
ADDRESS       PAINS       PAINS       PAINS       Implant         Call Strength (1:1:1:1)       4/       Strick       Output 7 7       BMR.       D       P.V.T.         Call Strength (1:1:1:1)       4/       Strick       Output 7 7       BMR.       D       P.V.T.         Call Strength (1:1:1:1)       4/       Multicity       Strick       Output 7 7       BMR.       D       Mud Waig         API Vate Loss (cc. in 30 infn.)       2.5       Multicity       Multicity       Multicity       Multicity       Multicity       Multicity       Multicity       Multicity       Multicity       Multicity       Multicity       Multicity       Multicity       Multicity       Multicity       Multicity       Multicity       Multicity       Multicity       Multicity       Multicity       Multicity       Multicity       Multicity       Multicity       Multicity       Multicity       Multicity       Multicity       Multicity       Multicity       Multicity       Multicity       Multicity       Multicity       Multicity       Multicity       Multicity       Multicity       Multicity       Multicity       Multicity       Multicity       Multicity       Multicity       Multicity       Multicity       Multity       Multity       Multity       M	Plastic Viscosity (Cps.)	12		D Monitor
Advance       Duruct $7$ Main $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$	Yield Point (Ibs./100 Sq. Ft.)	12.		Trip Guard
API Yzater Loss Icz. in 30 inm.)       2.5       Circulating BTM Up       7.4 X007 Min.       Pip Sensor         Cake Thickness (32nds.)       2       Drill Pipe       5.1/2       In.       Am. Vel.       / 00         API HT-HP Fluid Loss (CC/30 min.)       -       Drill Fipe       5.1/2       In.       Am. Vel.       / 00         API HT-HP Fluid Loss (CC/30 min.)       -       Drill Collsr       0.1/2       in.       Am. Vel.       / 3.5         CEC (API Equiv. M/Bbl, Bent.)       -       Drill Collsr       In.       Am. Vel.       / 3.5         PH. Strip       Beckman       //.0       Circ. Presure 24000 PSI       Hydrosteic Press       BEQ         P. Alkalinity (M1)       -       -       Glic Collsr       In.       Am. Vel.       BEQ         Salt (CDFPPM Chiorate Z PPM       -       -       -       Glic Collsr       In.       Am. Vel.       BEQ         Salt (CDFPM Chiorate Z PPM       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       - <td< td=""><td>Gel Strength (Lintial)</td><td>4</td><td>Bbls./ Stroke Output 77 Min.</td><td>D P.V.T.</td></td<>	Gel Strength (Lintial)	4	Bbls./ Stroke Output 77 Min.	D P.V.T.
API Vizier Loss Icc. in 30 inm.)       2.5       Circulating BTM Up       7.4 X007 Min.       Pip Sensor         Cake Thickness (32nds.)       2.       Dnill Pipe       5.1/2.       In.       Ann. Vel.       / 00         API HT-HP Fluid Loss (CC/30 min.)       -       Dnill Pipe       5.1/2.       In.       Ann. Vel.       / 00         API HT-HP Fluid Loss (CC/30 min.)       -       Dnill Collar       In.       Ann. Vel.       / 3.5         CEC (API Equiv. M/fabl. Bent.)       -       Dnill Collar       In.       Ann. Vel.       / 3.5         PH. Sirip       Beckman       //0       Circ. Presure 24000 PSI       Hydroitatic Press       BEQ         P. Alkalinity (M1)       -       -       REMARKS - (Gire operation, hole coldition, and nature of any pression         Salt CDFPPM       Chorne Z PPM       / 3.5       -       -       -         Salt CDFPM       Chorne Z PPM       / 3.5       -       -       -         Salt CDFPM       Chorne Z PPM       / 3.5       -       -       -       -         Salt CDFPM       Chorne I's by Vol.)       -       -       -       -       -       -         Subd Content I's by Vol.1       -       -       -       -       -	Gel Strength (10 Min.)	10.	Mud Cycle 33 Min.	D Mud Weigh
API HT-HP Fluid Loss (CC/30 mm.)	API Water Loss (cc. in 30 min.)	125		Fip-Sensor
CEC (API Equiv. M/bbl. Bent.)     Oriff Collar     In.     Am., Vel.       pH. Scrip []     Beckman []     11, 0     Circ. Pressure 2.400 proj.     Hydroitatic Press       P. Alkalinity (PI)     .4     REMARKS - IGire operation, hole collection, and nature of any prod       M. Alkalinity (PI)     .4     REMARKS - IGire operation, hole collection, and nature of any prod       Salt *C2*PPM     Chloride & PPM     75       Calcium PPM [] -	Cake Thickness (32nds.)	2	Drill Pipe 51/2 In. Ann. Vel.	100 .
pH. Sirip	API HT-HP Fluid Loss (CC/30 min.)	-	Brill Collier 9 1/2. in. Ann. Vel.	135
P. Alkalinity (PI)       7.0       REMARKS - (Give operation, hole condition, and nature of any provide and the condition, and nature of any provide and the condition, and nature of any provide and the condition, and nature of any provide and the condition, and nature of any provide and the condition, and nature of any provide and the condition, and nature of any provide and the condition, and nature of any provide and the condition, and nature of any provide and the condition, and nature of any provide and the condition, and nature of any provide and the condition, and nature of any provide and the condition, and nature of any provide and the condition, and nature of any provide and the condition, and nature of any provide and the condition, and nature of any provide and the condition, and nature of any provide and the condition, and nature of any provide and the condition, and nature of any provide and the condition, and nature of any provide and the condition, and nature of any provide and the condition, and nature of any provide and the condition, and nature of any provide and the condition, and nature of any provide and the condition and the condition, and nature of any provide and the condition and the condition and the condition and the condition and the condition and the condition and the condition and the condition and the condition and the condition and the condition and the condition and the condition and the condition and the condition and the condition and the condition and the condition and the condition and the condition and the condition and the condition and the condition and the condition and the condition and the condition and the condition and the condition and the condition and the condition and the condition and the condition and the condition and the condition and the condition and the condition and the condition and the condition and the condition and the condition and the condition and the condit and the condition and the condit and the c	CEC (API Equiv. #/bbl, Bent.)	-	Drill Collar In, Ann, Vel.	
M. Alkalimity (M)	pH. Scrip 🗋 🛛 Beckman 🗇	11.0	Circ. Pressure 2400 PSI Hydrostatic Pr	en 350
Sat CIPPM Chloride Z PPM     53	P. Alkalinity (PI)	.4	REMARKS ~ (Give operation, hole condition, an	nd nature of any pro
Calcium PPM [3]     PA (13)       Dil Content (% by Vol.)     PA (13)       Salidi Content (% by Vol.)     PA (13)       Suddi Content (% by Vol.)     PA (13)       SUGGESTIONE - (To be followed only if the operator deems advisable.)     Image: Content (% by Vol.)       SUGGESTIONE - (To be followed only if the operator deems advisable.)     Image: Content (% by Vol.)       SUGGESTIONE - (To be followed only if the operator deems advisable.)     Image: Content (% by Vol.)       SUGGESTIONE - (To be followed only if the operator deems advisable.)     Image: Content (% by Vol.)       Suggestion     Image: Content (% by Vol.)       Suggestion     Image: Content (% by Vol.)       Suggestion     Image: Content (% by Vol.)       Suggestion     Image: Content (% by Vol.)       Suggestion     Image: Content (% by Vol.)       Suggestion     Image: Content (% by Vol.)       Suggestion     Image: Content (% by Vol.)       Suggestion     Image: Content (% by Vol.)       Suggestion     Image: Content (% by Vol.)       Suggestion     Image: Content (% by Vol.)       Suggestion     Image: Content (% by Vol.)       Suggestion     Image: Content (% by Vol.)       Mage: Content (% by Vol.)     Image: Content (% by Vol.)       Mage: Content (% by Vol.)     Image: Content (% by Vol.)       Mage: Content (% by Vol.)     Image: Content (%	M. Alkalinity (MI)			
Catcium PPM [3*       0         Oil Content (% by Vol.)       0         Saids Content (% by Vol.)       1         SuGGESTIONS - (To be followed only if the operator deems advisable.)       1         (i)        1         (iii)       1         (iiii)       1         (iiiiiii)       1         (iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	Salt CFPPM Chloride PPM	53 0.0		******
Solids Content (% by Vol.)     // // //       Sand Content (% by Vol.)     // // //       SUGGESTIONS - (To be followed only if the operator deems advisable.)       (T)     // // // //       (T)     // // //       (T)     // // //       (T)     // // //       (T)     // //       (T)     // //       (T)     // //       (T)     // //       (T)     // //       (T)     // //       (T)     // //       (T)     // //       (T)     // //       (T)     // //       (T)     // //       (T)     // //       (T)     // //       (T)     // //       (T)     // //       (T)     // //       (T)     // //       (T)     // //       (T)     // //       (T)     // //       (T)     // //       (T)     // //       (T)     // //       (T)     // //       (T)     // //       (T)     // //       (T)     // //       (T)     // //       (T)     // //       (T)     // //       (T)     // //   <	Calcium PPM C3-			
Sand Content (% by Vol.)     Image: Subscription of the operator deems advisable.)       Image: Subscription of the operator deems advisable.)       Image: Subscription of the operator deems advisable.)       Image: Subscription of the operator deems advisable.)       Image: Subscription of the operator deems advisable.)       Image: Subscription of the operator deems advisable.)       Image: Subscription of the operator deems advisable.)       Image: Subscription of the operator deems advisable.)       Image: Subscription of the operator deems advisable.)       Image: Subscription of the operator deems advisable.)       Image: Subscription of the operator deems advisable.)       Image: Subscription of the operator deems advisable.)       Image: Subscription of the operator deems advisable.)       Image: Subscription of the operator deems advisable.)       Image: Subscription of the operator deems advisable.)       Image: Subscription of the operator deems advisable.)       Image: Subscription of the operator deems advisable.)       Image: Subscription of the operator deems advisable.)       Image: Subscription of the operator deems advisable.)       Image: Subscription of the operator deems advisable.)       Image: Subscription of the operator deems advisable.)       Image: Subscription of the operator deems advisable.)       Image: Subscription of the operator deems advisable.)       Image: Subscription of the operator deems advisable.)       Image: Subscription of	Oil Content (% by Vol.)	<u>ت</u>		
SUGGESTIONS - (To be followed only if the operator deems advisable.)       (T     U/1     U/1     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y     Y	Salids Content (% by Vol.)	4%		
17. 14.11     14. 9.3 m Lss       11. 0.1     40-50       12. 0.1     40-50       13. 0.1     40-50       14. 0.1       14. 0.1       14. 0.1       14. 0.1       14. 0.1       14. 0.1       14. 0.1       14. 0.1       14. 0.1       14. 0.1       14. 0.1       14. 0.1       14. 0.1       14. 0.1       14. 0.1       14. 0.1       14. 0.1       14. 0.1       14. 0.1       14. 0.1       14. 0.1       14. 0.1       14. 0.1       14. 0.1       14. 0.1       14. 0.1       14. 0.1       14. 0.1       14. 0.1       14. 0.1       14. 0.1       14. 0.1       14. 0.1       14. 0.1       14. 0.1       14. 0.1       14. 0.1       14. 0.1       14. 0.1       14. 0.1       14. 0.1       14. 0.1       14. 0.1       14. 0.1       14. 0.1       14. 0.1       14. 0.1       14. 0.1       14. 0.1       14. 0.1 <td< td=""><td>Sand Content (% by Vol.)</td><td></td><td></td><td>····</td></td<>	Sand Content (% by Vol.)			····
ADDRESS     PHONE	SUGGESTIONS - (To be followed on	ly if the operator deems advis	able.)	
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OILFIELD PRODUCTS	DIVISION (SEC	URITY . SWACO .	GUIBERSON +	MAGCOBAR)	
CHOCK No. TE			Date	7	
Well Name Clouchase	e stal l'é	Légal Description	020		٦
Company_ Marit		~	- tay over		٦
	14K/Staw Jul	,	C rnall		
	12 . 19.		12.4		-1
AddressSample From: Pit . 1 Flow Line .		Address	12.19		4
	F. Mud Properti	FB Hole and Circul	ation Cata	Swaco Equipment	
Time Sample Taken	3.20	Spud Date 2/	sup 1.	D. Sitter	
Depth	.£100	: Fill Lass Trip 100	C. 11 Fr.	D D, Sander	
Sleight Flow Line	7.5	Surface Cesing 3 0 In	1.6725 FL	Super Screen	
Weight Suction	19.5	Intermediate Casing 70 In	.0 1225 FL	Centrifuge	
Funset Viscosity (Sec./Qt.)	1/3		Bit 17/2 In.	D. Gasser	
V.G. Temp. Reading - 9 F.	81	Mud in Hole 625 bbls.	Tanks 350 bbla.	Adjustable Choke	
Fann Viscosity (Cps.)	10	Total Mud in System	075 ^{-bbls.}	Super Choke	
Plastic Viscosity (Cps.)	10	#1 Pump Size → x / ¿In		D Monitor	_
Yield Point (Ibs./100 Sq. Fi.)	16	Pump Size 7 x 12in	, Phie	D Trip Guard	
Gel Strength (Initial)	6	Bols./ Stroke Outpu		<u> </u>	_
Gel Strength (10 Min.)	14		<u> 78 Min.</u>	Mud Weigher	_
API Water Loss (cc. in 30 min.)	26	Circulating BTM Up	<u>27 Min.</u>		_
Cake Thickness (32nds.)		Drill Pipe 5/2	In. Ann. Vel.		
CEC (API Equiv. N/bbl. Bent.)	20 7	Drill Collar G 1/2	in. Ann. Vei.	<u>1.30</u> Ft./Mit	
		Drill Collar	In. Ann, Vei.	Ft./Mir	۰. 
P. Alkalinity (F:)		Circ. Pressure 2700			_
M. Alkalinity (Mf)				d nature of any problems.)	-
Selt C PPM Chloride C PPM		Delling	hule	was	-
Calcium FPM C	7 102	Timet on	- SNNICTION	cland	-
Cil Content (% by Vol.)		up when	d.p.Ili-	m to shah.	-
Solids Content (% by Vol.)	6%	i			-
Sand Content (% by Vol.)	1/1/31				-
SUGGESTIONS - (To be followed	only if the operator deem	s advisable.}			-
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(21 P.	m D.c.	Ilet to ho	IL WF	· · ·	1
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<u>(3)</u>	in grin	2" Sto.	m. Sca	wali.	
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<u>, 4</u> ,	11A 41	hangs Can	<u>c I-i-</u>	odn.	
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MAGCOBAR WAREHOUSE		MAGCOBAR ENGINE		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
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r		J'h			rick		ILLINU	1.11	ID REPON
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-	OILFIELD PRODUCTS D	IVISIO	V ise	CURITY	• SWACD •	GUIBE	RSON .	ма	GCOBARI
$\circ$	CHECK NO.						Date Star	. f	2017.
Ĩ		Inia	hert	cer 1	_Legal Description	- <u>17</u> - 1		-1	
N.	Well Name			<u> </u>		<u>7</u> 7	<u> </u>	8	
	1.12	1	, /.	ß	Contractor		· · · · ·	0	<u> </u>
	Report For Mr. <u>2014/11/1</u>	1.21	1. 100	16.3014		/ 4	1.1.7.2	<u>( · · </u>	
-	Address				Address Kig				
	Semple From: Pit Flow Line		Mud Prope	rties	Hole and Circul	ation Cat	ta	5	waco Equipment
· [	Timt Sample Taken			1	Soud Date			ü	D. Silre:
	Depth	25:50	2:00	2172	Fill Last Trip		Ft.	0	D. Sander
[	Weight Slow Line	9.0	9.1.	10	Surface Casing Ir	ı. @	 Fi,	٥	Super Screen
[	Weight Suction	19.9	2.6	10	Intermediate Casing In	. @	Ft.	٥	Centrifuge
	Funnel Viscosity (Sec./Cit.)	43	1-1-1	ci.t		Bit Size	In.		D. Gasser
ļ	V.G. Temp. Reading - 0 F.	<u> </u>	 	1	Mud in Hole bbis.	Tanks	bbis.		Adjustable Choka
~	Fann Viscosriy (Cps.)	25 1	·	12	Total Mud in System		bbis.	۵	Super Choke
γĻ	Plastic Viscosity (Cps.)	· · · · · · · · · · · · · · · · · · ·		11	H1 Pump Size x In H2	Strokes Min.		<u>ם</u>	Monitor
í  -	Yield Point (Ibs./100 Sq. Ft.)	19	1	12		Strokes . Min.		0	Trip Guard
· · · }	Get Strangth (Imitial)	<u>kr</u>	1-1-		Stroke Outpu	n			P.V.T.
ŀ	Gel Strength (10 Min.)	111	1.2	17	Mud Cycla		Min.	<u> </u>	Mud Weigher
ŀ	API Water Loss (cc. in 30 min.)	729	<u>تئەتما</u>	41	Circulating BTM Up		Min.	<u> </u>	Flo-Sensor
	Cake Thickness (32nds.) API HT-HP Fluid Loss (CC/30 min.)	<u> </u>		!	Drill Pipe	In.	Ann. Vel.		Ft./Min.
-	CEC (API Equiv. #10bl. Bent.)		1	,	Drill Collar Drill Collar	in.	Ann. Vel. Ann. Vel.		Ft./Min. Ft./Min.
. F	pH. Strip 🗇 🛛 Beckman 🗇	10.0			Circ, Pressure		Hydrostatic Pr		
┠	P. Alkolinity (Pf)	- 5	··/		REMARKS - IGive opera				
F	M. Alkalinity (58)	<u> </u>	<u> </u>	1	Duill S	014	Shine	1045	
· †	Salt LI PPM Chiunde CA PPM	=:5,4	7:341	9311			Vie fei (	يتنعن	·
F		1000			h		ji ji		
	Oil Content (% by Mol.)	1		!			//		
~ງ [	Solids Content (% by Vol.)	6	5.5	7					
al ^e	Sand Content (% by Vol.)	0	0	1/1					
۰	SUGGESTIONS - (To be followed on	ly if the o	perator de	ens advisat	sie.)		4 (c)		
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-	<u>محمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد</u>			 میڈیز ا	e nitaria di manganya nya ata di sara di padali dagi manjari nya miti a famatana nya			<del></del>	
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OILFIELD PRODUCTS		•		• GUID			GCOBAR)
Well Name	(rel)	telactra		11 6			
Company///////			Contractor	1.10 1.5 1	<u> 47 c 8.</u>	<u>7.</u>	
Report For Mecanfard	Slag	Johnson		<u>C.H</u>	illiter.	<u> </u>	
Address			Address	<u>.</u>			
Sample From: Pro _ Flow Line 2		Nud Properties	Hole and C	Circulation ()			Sweco Equi
	F.	1 1			·····		D. Silter
Time Sample Taken			Fill Last Trip		F1.		D. Sande
Depih	1767	20:50				0	Super Sc
Weight Flow Lina	1.1	10.6	Surface Casing Intermediate	ln.@	F1.		Centrifue
Weight Suction	19.1	10.5	Casing	In. @ Bit	F1.		D. Gasse
Funnel Visconity (Sec./Qt.)	-1/3	183.	Bit Type Mud	Size	ln.		
VC Tamp. Reading - 0 F.				bbis, Tanks	bists.		Adjustab Super Ch
Fann Viscosity (Cps.)			/ otal w// in Sy1	Stroke		Į	
Plastic Viscosity (Cps.)	13	10	Pump Size x	In, Min, Stroke			Monitor Trip Gua
Yield Point (ibs./100 Sa. Ft.)		12	Pump Size x Bbls./	In. Min.	Bbis.		P.V.T.
Gel Strength (Initial)	15		Stroke Mud Cycle	Dulput	Min. Min.		Mud Wei
Gel Strength (10 Min.)		22	•				
API Water Loss (rc. in 30 min.)		1:00	Circulating BTM Up		Min.;	<u> </u>	Fio Sens
Cake Thickness (32nds.)	13	2	Drill Pipe	In	Ann. Vel.		
CEC (API Equiv. #/bbl. Bent.)			Drill Collar		Ann. Vel.		
	120		Drill Collar	tn.	Ann. Val.		
pH. Strip (E) Beckman (C) P. Alkalimity (PI)	10	10.5	Circ. Pressure REMARKS - (Give	PSI	Plydrostatic P		
	-13-	2		uperation, in			
M. Alkalinity (Mf)			Driftin	<u> </u>	7-7-		
Salt D PPM Chloride D PPM Calcium PPM &			<u>Fiddun</u>	1 52/1	- 18 5	0 11	r <u> 130 -</u>
	1000	12-710		·····		77	7
Oil Content (% by Vol.)			Masti Or	FIRS	fril a ,	éqt	<u></u>
	111	43 1/2	- COULANS	100	h c. C.	•	
Sand Content (% by Vol.) SUGGESTIONS - (To be followed							
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	<u>к</u>						
<u> F</u>			,,,				
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MAGCOBARWAREHOUSE			MAGCOBAR E	II de la			
ADCRESS	PHONE		ADDRESS	<u> </u>	PHONE		

OILFIELD PRODUCTS D	IVISION	V ISECURI	TH . SWACO - GUIDENSON . MAGO	04AR1
CHECK Np. 2		·- · ·	Date Sept 30	2/24
Well Name Langer Ster	کرے سکر	toherty.	Legal Description	
Company Lingans		·	_ Contractor finda acono 83	
Report For Mr. Low Fish		4 Johnson	. Report For Mr. C. Malbuce	
			11.	
Addres 24 14	1		Address A.	
Flawline Temp O F.	¦ '	Mud Properties	Hole and Circulation Data Swi	aco Equipme
Time Sample Taken	ļ	<u> </u>	Shud Date Q C	D. Silter
Depth	17:50	2105	Fill Last Trip Ft. D	D. Sander
Millight Flow Line	2	10.3		Super Screen
Weight Suction	11.7	10.0	Costing Int. C* PT.	Contrituge
Funnel Viscosity (Sec./Ot.)	12	22	Bit (ype Size in,	D. Gasser
V.G. Temp. Reading - 9 F.			in Hole bbls. Tanks bbls.	Adjustable Ch
Fann Viscouty (Cps.)	16	18		Super Choke
Plastic Viscosity (Cps.)	10	<u>  </u>	Pump Size x In. Min.	Monitor
Yield Point (lbs./ 100 Sq. Ft.)	12	12	Pump Size x In. Min. Bbis./	Trip Guard
Gul Strength (Initial)	7	7.2	Stroke Output	P.V.T.
Get Strength (10 Min.)	147	16		Mud Weighst
API Water Loss (cc. in 30 min.)	153	60-		Fla Sensar
Cake Thickness (32nds.)			Drift Pipe In. Ann. Vel.	F1.
API HT-HP Fluid Loss (CC/30 min.) CEC (API Equiv. N/hbl. Bent.)			Drill Collar In. Ann. Vel.	 Ft
pri. Strip (E) Beckman C)	17.5	······	Drill Collar In. Ann. Vet. Circ, Pressure PSI Hydrostatic Press	PS
P, Alkalmey (Pf)	12	10.5	REMARKS - IGive operation, hole condition, and nature	
M. Attalinity (MI)				1.0.45.
Salt L3-PPM Chloride C PPM	21521	315 11	Ke cover Drill col	1.45.
Calcium PPM4		177:00	- Grulling Ster	
Oil Content (% by Vol.)	1	1 1		
Solids Content (% by Vol.)	6	6		
Sand Content 1% by Vol.)	0	0		
SUGGESTIONS - (To be followed or			isable.}	
				•
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MAGCOBAR WAREHOUSE			MAGCOBAR ENGINEER	
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OILFIELD PRODUCTS D	IVISION (SECURI	TY • SWACD • GUIBERSON	MAGEOBAR
SHECK No	······································	Date	FIAd.
Well Name L'anteriere	fal four Secur	Legal Description	
Company Maria inte		_ Contractor + Contra 1 Come	\$2.
Report For Mr. J. Con Jean	into Con lating	Report For Mr. C. Mallone	· · ·
Address Si	<u></u>	Address Kci	
Semple From: Pit Flow Line	1		T
Flowline TempO F	Mud Properties	Hole and Circulation Data	Swaco Equi
Time Sample Taken		Spud Date	D. Silter
	5/05	Fill Last Trip Fi	
Weight Flow Line	10.8	Surface Casing In. @ F	
Weight Suction	1. 6.	Casing In. @ F	
Funnel Viscosity (Sec./Qt.)	<u> 7</u> Z	Bit Type Size in	- [
V.G. Temp. Reading - 0 F.		in Hole bbls. Tanks bbl	
Fann Viscosity (Cps.)	15	Total Mud in System bbls. #1 Strokes	
Plastic Viscosity (Cps.)		Pump Size x In. Min. #2 Strokes	Monitor     Trin Cui
Yinld Point (Ibs./100 Sq. Ft.)	10	Pump Size x In, Min, Bhls./ Bbls	Trip Gua
Gel Strength (Initial)	7	Stroke Output Mir	<u>, a r.v</u>
Get Strength (10 Min.)		Mud Cycle Mir	
API Water Loss (cc. in 30 min.)	6.5	Circulating ETM Up Mil	n. Flo-Sens
Cake Thickness (32nds.)		Drill Pripe In. Ann. Vel.	
API HT-HP Fluid Loss (CC/30 min.) CEC (API Equiv. #/bbl, Bent.)		Drill Collar In, Ann, Vel.	
pH. Strip [2] Beckman [2]		Dull Collar In. Ann. Vel.	
P, Alkalinity (PI)	10.5	Circ Pressure PSt rlydrostatic REMARKS - (Give operation, hole condition,	
M, Alkalinity (Mf)	3		
Salt (1) PPM Chloride [] PPM	3/54		2
Calcium PPM		Kun a hor	1.500
Oil Content (% by Vol.)	26,00	Inpant Killy	ID TUN
Solids Content (% by Vol.)	./	sing	
Sand Content (% by Vol.)			
SUGGESTIONS - (To be followed o	nly if the operator deems adv	isable.)	
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MAGCOBAR WAREHOUSE		MAGCOBAR ENGINEER	
		· D.K. Ilean	
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OILFIELD PRODUCTS (	VISION ISECURI	TY SWACO .	GUIBERSON .	MAGCO	NARI
CHECK ND			Date 1	1.1 7	
Well Name Inudeurs	crattolar bra	Legal Description	·		
Company Prautain	-0	Contractor	abe one	82.	
Report For Mr. Kon friend	E.S. Show phan	on Report For Mr. C	Hallerc	ł	
Address 200		Address K. r.			
Sample From: Pit _ Flow Line	htud Deserver			1	
Flowline 1 emp 0 p	Mud Properties	Hole and Circu			Equipmi
Time Sample Taken		Spud Date			Silter
Depth	3/25	Fill Last Trip	F1		Sander
Weight Flow Line	1:3	Surface Casing In Intermediate	n.@ Ft	·	er Screen
Weight Suction	125		n. @ Fr Brt		Gasser
Funnel Viscosity (Sec./Ot.)	41	Bit Type Mud	Size tr		
V.G. Temp. Reading . º F.	15	in Hole bbis.	. Tanks 561	······································	ustable C ler Choke
Fann Viscosity (Cps.)		Total Mud in System	bbls. Strokes		
Plastic Viscosity (Cps.)	10	Pump Size x tr	1. Min. Strokes		nitor Guard
Yield Point (ibs./100 Sq. Ft.)		Bbls /	n. Min. Bbis	<u> </u>	
Gel Strength (Initial)	5	Stroke Outp Mud Cycle	Min Min	·	d Weigher
Get Strength (10 Min.)		Circulating &TM Up	Mir		Sensor
API Water Loss (cc. in 30 min.) Cake Thickness (32nds.)	70	Drill Pipe	In. Ann. Vel.		F
API HT-SIP Floid Loss (CC/30 min.)	2	Drill Collar	In. Ann. Vel.	<u></u>	F
CEC (API Equiv. Mibbl. Bent.)		Drill Collar	In. Ann. Vel.		 F
pH. Strip (y) Beckman ()		Circ. Pressure	PSI Hydrestatic	Press	r
P, Alkalimity (Pf)	105	REMARKS - (Give oper			
M. Alkalinity (MH)			g . Care. Di		
Salt Ci-PPM Chloride C PPM	51.5 1.	Stac &		<u> </u>	am
Calcium PPM 🔄	2300	Simer	<u> </u>		
Oil Content 1% by Vol.J					
Solids Content (% ty Vol.)	6				
Sand Content (% by Vol.)	112		1999 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 19		
SUGGESTIONS - (To be followed	only if the operator doems ad	visable,)			~
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MAGCOBAR WAREHOUSE		MAGCOBAH ENGIN	IEER		
ADDRESS	HONE	ADDRESS	PHONE		
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DILFIELD PRODUCTS		TV • SWACO • GUIBERSON Date	Def 3.
Well Name for the the C	al tolar Dear	Legal Description	
Company Harristellere		Contractor ITM to a me	37
Report For Mr. 19	1 a b Standen	A Report For Mr. C. That the	<u>-Cs</u>
Address Keri	/ .	Address King	
Sample From Pit Flow Line .		Hole and Circulation Cate	Sweep Enu
	F.j Mult Fighering		
Tune Sample Taken		Spud Date	D D. Silter
Depth	5105		Ft. D. Sand
Weight Flow Line	10.0	Surface Casing In. @	Ft. Super St
Weight Suction	10.2		Ft. Centrifu
Funn (Viscosity (Sec./Qt.)	41	Bit Type Size	In. D. Gasse
3.G. Temp. Brading - D.F.		in Hole bbls, Tanks b	bis. Adjustat
Fann Viscosoy (Cps.)		Total Mud in System bils	
Plastic Viscosity (Cps.)	10	#1 Strokes Pump Size x In, Min,	D Monitor
Yield Point (lbs./100 Sq. Ft.)	10	H2 Strokes Pump Size x In, Min,	D Trip Gua
Gel Strength (Initial)	<u> </u>	Bbis./ At Stroke Output N	bis. D P.V.T.
Gel Strength (10 Min.)		Mud Cycle N	Ain. D Mud Wei
APi Water Loss (cc. in 30 min.)	175	Circulating BTM Up A	Ain. D Flo-Sens
Cake Thickness (32nds.)		Dritt Pipe In, Ann. Vel.	
API HT-HP Fleid Loss (CC/30 min	:	Dritt Collar in, Ann. Vel,	
CEC (API Equiv. #/bal. Bent.)		Drill Collar In. Ann. Vel.	
pH, Strip LJ — Beckman LL	10.5	Girc. Pressure PS1 Hydrostat	lic Press
P. Alkalinity (Pf)	.3	REMARKS - ((rive operation, hole condition	n, and nature of any p
M, Alkalinity (MI)		Duill out Hoat &	Shec .
Salt 🖾 PPM Chloride 🗔 PPM	">1'SM	. ,	
Calcium PPM (15)	2500	Dull 12 14 hold	ζ.
Oil Content (% by Vol.)			
Solids Content (% by Vol.)	6		
Sand Content (% by Vol.)			
SUGGESTIONS -ITa be followed	only if the operator deems adv	nsable.)	
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MAGCOBAH WARE HOUSE		MAGCOBAR ENGINEER	and a subscript of Approximation of Approx
		D. Kollen	
ADDRESS F	HONE	ADDRESS	E

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OILFIELD PRODUCTS I	DIVISION (SECURIT	Y • SWACD • GUIBERSON •	MAGCOBARI	-
CHECK No		Date		1
	lat tolar sear			<b>.</b>
Well Name <u>Productions</u>	10 1001 220		<u> </u>	
Company Hallicity		_ Contractor Confactor C	2,1	
Report For Mr. Lou Fay	at Star Johns	" Report For Mr	t	
Address Kein		Address		
Sample From: Pit 12 Flow Line 2 Flowline Temp		Hole and Circulation Data	Swaco Equipment	] [
Time Sample Taken		Spud Date	D. Silter	1
Depth	3214	Fill Last Trip F1.	D. Sander	
Weight Flow Line		Surface Casing In. @ Ft.	Super Screen	1
Weight Suction	10-0	Intermediate Casing In. @ Ft.	🗋 Centrifuge	1
Funnel Viscosity (Sec./Qt.)	40	Bit Type Bit In.	D. Gasser	
V.G. Temp. Reading - 9 F.		Mud in Hole bbls. Tanks bbls.	Adjustable Choke	
Fann Viscosity (Cps.)	16	Total Mud in System bbts.	Super Choke	] ·
Plastic Viscosity (Cps.)	757	H1 Strokes Pump Size x In, Min,	D Monitor	
Yield Point (Ibs./100 Sq. Ft.)	19	M2 Strokes Pump Size x In, Min,	D Trip Guard	
Gel Strength (Initial)	6	Bbls./ Bbls. Stroke Output Min.	С р.v.т.	
.Gel Strength (10 Min.)	15	Mud Cycle Min.	Mud Weigher	
API Water Loss (cc. in 30 min.)	85	Circutating BTM Up Min.	Flo-Sensor	
Cake Thickness (32nds.)		Drill Pipe In, Ann. Vel.	F1./Min.	
API HT-HP Fluid Loss (CC/30 min.)		Drill Collar In. Ann. Vel.	Ft./Min.	
CEC (API Equiv. #/bbi, Bent.)		Drill Collar In. Ann. Vel.	Ft./Min.	
pH. Strip 🖾 Beckman 🗔	11.5	Circ. Pressure PSI Hydrostatic Pi		
P. Alkalinity (PI) M. Alkalinity (Mf)	-8	REMARKS - (Give operation, hole condition, and		
Salt E-PPM Chloride PPM	7.0	Drill 12" uhole.		
Calcium PPM S-	290 M 2600			[
Oil Content (% by Vol.)			· · · · · · · · · · · · · · · · · · ·	
Solids Content (% by Vol.)	4			
Sand Content (% by Vol.)	1/4			
SUGGESTIONS -{To be followed o		ible.)		
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MAGCOBAR WAREHOUSE		MAGCOBAR ENGINEER	•	
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Time Sample Taken       OFOOD       Spud Date       D. Silter         Depth       5555       Fill Last Trip       Ft       D. Sander         Weight Flow Line       10.(2)       Surface Casing       In. @       Ft.       Super Scree         Weight Suction       16.57       Bit Type       Bit       2/2/2/1       In. @       Ft.       D. Centrifuge         Funnel Viscosity (Sec./QL)       1/2       Bit Type       Size       2/2/2/1       In. @       Adjuitable         V.G. Temp. Reading - 0 F.       Mud       Mud       bbls. Tanks       bbls.       D. Adjuitable	OILFIELD PRODUCTS I	·		Det 3	AGCOBARI
Report For Mr. Low Kinch. San. Johnson.       Report For Mr. C. Malbart.         Address King       Address King         Sample From Pri. J. Flow Line IJ.       Mud Properties         Hole and Circulation Data       Sweece Equipment         Sample Term. OF.       Mud Properties         Hole and Circulation Data       Sweece Equipment         Depth       Strong Sample Trip         Hill Last Trip       Fit         Weight Storie       In. @         Weight Storie       In. @         Vice.JUL       Ag         Bit Type       Site / 2/2/1         N.G. Temp. Reading • 0 F.       Mud         Mid       Mud         Y.G. Temp. Reading • 0 F.       Mud         Plastic Viscosity (Coc.)       /C         V.G. Temp. Reading • 0 F.       Mud         Plastic Viscosity (Coc.)       /C         Veld Point (Ibc./100 Sa. Fi.)       /C         Plastic Viscosity (Coc.)       /C         Res Strongth (Instail)       Zc         Bobs./       Stroke         Output       Min.         Plastic Viscosity (Coc.)       /C         Cale Strength (Instail)       Zc         Bobs./       Output         Min.       P.V.T.	Well Name Hautinic CI	at this prat .	Legal Description		
Report For Mr. Low Kinch. San. Johnson.       Report For Mr. C. Malbart.         Address King       Address King         Sample From Pri. J. Flow Line IJ.       Mud Properties         Hole and Circulation Data       Sweece Equipment         Sample Term. OF.       Mud Properties         Hole and Circulation Data       Sweece Equipment         Depth       Strong Sample Trip         Hill Last Trip       Fit         Weight Storie       In. @         Weight Storie       In. @         Vice.JUL       Ag         Bit Type       Site / 2/2/1         N.G. Temp. Reading • 0 F.       Mud         Mid       Mud         Y.G. Temp. Reading • 0 F.       Mud         Plastic Viscosity (Coc.)       /C         V.G. Temp. Reading • 0 F.       Mud         Plastic Viscosity (Coc.)       /C         Veld Point (Ibc./100 Sa. Fi.)       /C         Plastic Viscosity (Coc.)       /C         Res Strongth (Instail)       Zc         Bobs./       Stroke         Output       Min.         Plastic Viscosity (Coc.)       /C         Cale Strength (Instail)       Zc         Bobs./       Output         Min.       P.V.T.	Company Manufaire	· .	Contractor Ferria Loro	, SL.	
Address       Address       Address       Address         Sample From Pit J Flow Line IJ Flowing Tems, O F,       Mud Properties       Hole and Circulation Data       Swace Equip, Data         Time Sample Taken       0.50 ml       Spuid Date       D. Silter         Depth       33%       Fill Last Trip       Fill D. Silter         Weight Flow Line       10.1/2       Surface Casing       In. @       Fill D. Silter         Weight Sculan       10.5/2       Surface Casing       In. @       Fill D. Silter         Vision Viscolity (Sec./OL)       1/2       Bit Type       Bit Type       Surface Casing       In. @       Fill D. Gaser         V.G. Temp, Reading, o. F.       Mode in Note       bbit.       Super Code       Modiumable         Plance Viscolity (Cod.)       1/2       Total Mud in System       bbit.       Super Code         Viscolity (Cod.)       1/2       Total Mud in System       bbit.       Super Code         Plantic Viscolity (Cod.)       1/2       Total Mud in System       bbit.       Super Code         Plantic Viscolity (Cod.)       1/2       Total Mud in System       bbit.       Super Code         Plantic Viscolity (Cod.)       1/2       1/2       Total Mud in System       bbit.       Super Code <t< td=""><td>1 11.</td><td>Clay Johnson</td><td>· ^ 7/ //</td><td>1</td><td></td></t<>	1 11.	Clay Johnson	· ^ 7/ //	1	
Sample From: Print of Provide Properties       Mud Properties       Hole and Circulation Data       Swace Equiping Trans Swace Equiping Trans Sample Taken       D. Silter         Pepth       Trine Sample Taken       (250.5)       Fill Last Trip       Fill D. Sinder         Depth       Taxon (250.5)       Fill Last Trip       Fill D. Sinder         Weight Flow Line       (10.15)       Super Screet       D. Sinder         Weight Social       (10.15)       Super Screet       Intermediate       D. Sinder         Weight Social       (10.15)       (10.15)       D. Sinder       D. Sinder         Weight Social       (10.15)       (10.15)       D. Sinder       D. Sinder         V.G. Temp. Reding - 0 F.       Intermediate       D. Sinder       D. Gasser         V.G. Temp. Reding - 0 F.       Mod       Mod       D. Sinder       D. Gasser         Viscosity (Cps.)       /G2       Total Mud in System       Dbls.       D. Sinder         Parme Viscosity (Cps.)       /G2       Pump Size       in. Nonicor       Mod Norsystem       Dbls.       Mod Norsystem       Diff.       D. Sinder         Plattic Viscosity (Cps.)       /G2       Pump Size       in. Nonicor       Trip Guard       Diff.       Pump Size       SinoNee       Trip Guard	1)				
Flowing Temp.       o F.       Mud Properties       Hole and Circulation Data       Swee Equipation         Time Sample Taken $O_{50,7}$ Spud Date $\Box$ D. Silter         Depth $\Xi_{20,5}$ Fill Last Trip       Ft $\Box$ D. Silter         Weight Flow Line $IO_{1,5}$ Surface Casing       In. $\Theta$ Ft $\Box$ D. Sinter         Weight Flow Line $IO_{1,5}$ Surface Casing       In. $\Theta$ Ft $\Box$ Cantrifuge         Funef Vacosity (Sec./QL) $IO_{2}$ Bit Type       Site $I \ge L_2$ In $\Box$ D. Gaser         V.G. Temp. Reading $\circ$ F. $IO_{2,5}$ $IO_{2,5}$ Tetal Mud in System       bbls.       Adjustable         Fan Viscosity (Cps.) $IO_2$ $P_1$ mp Size       x       Strokes $IO_{2,5}$ Monitor         Plants Uscosity (Cps.) $IO_2$ $P_1$ mp Size       x       Strokes $IO_{2,5}$ Monitor         Plants Uscosity (Cps.) $IO_2$ $IO_1$ $P_2$ Strokes $IO_1$ Monitor         Plants Uscosity (Cps.) $IO_2$ $IO_1$ $P_1$ mp Size       x       Stroke $IO_1$ Monitor<		· · · · · · · · · · · · · · · · · · ·	Address		
OppihTotolFill Last TripFilD. SanderWeight Flow Line $IO.(g)$ Surface CasingIn. ØFil.D. SanderWeight Suction $IA.S.'$ Intermediate CasingIn. ØFil.CentrifugeFunnet Viscotity (Sec./OL) $Ig$ Bit TypeBit $g/2/c/$ In. ØD. GasterV.G. Temp. Reading : 0 F. $Ig$ Bit TypeBit $g/2/c/$ In. ØD. GasterFannet Viscotity (Cps.) $Ig$ Total Mud in Systembbls.D. GasterPlastic Viscotity (Cps.) $Ig$ $Ig$ MonitorMonitorPlastic Viscotity (Cps.) $Ig$ $Ig$ MonitorMonitorVield Point (lbs./100 Sq. Ft.) $Ig$ $Ig$ Nump Size $x$ In. MonitorVield Point (lbs./100 Sq. Ft.) $Id_x$ $Rump SizexIn. Mon.MonitorGel Strength (Initial)Z_{C1}Mud CycleMin.P.V.T.Mud WeighGel Strength (10 Min.)I.G.''_{C1}Mud CycleMin.P.V.T.Gel Strength (10 Min.)I.G.''_{C2}Mud CycleMin.P.V.T.Gaster Thicknes (32nds.)5Drill PipeIn.Ann. Vol.Citc (API Equiv. Mibbl. Bent.)Drill CollarIn.Ann. Vol.pH HT-HP Fluid Loss (CC/30 min.)Drill CollarIn.Ann. Vol.pH Strip I: Beckman I: II.S.Citc. FressurePSIHydrocitation, and nature of any proN. Alkalinity (M1)SREMARKS - (Give operation, hole condition, and nature of any pro<$			Hole and Circulation Data		Swaco Equipr
Product SectionProduct Secti	Time Sample Taken	0500	Spud Date	D	D. Silter
Weight SuctionIntermediate CasingIn. 0Ft.CentrifugeFunnel Viscosity (Sec./QL)If 2Bit TypeSite $f 2^{1/2}/4$ In. 0D. GasserW.G. Temp. Reading $\cdot$ o F.Mid Mid an Holebbls. Tanksbbls.D. AdjutableFann Viscosity (Cps.)If 2Total Mud in Systembbls.D. Super CholePlastic Viscosity (Cps.)If 2If 2Mid 	Depth	337	Fill Last Trip	Ft 🛛	D. Sander
Weight Suction $7.5^{-1}$ Casing       in. 0       Ft.       D       Cantrugs         Funnet Vizcosity (Sec./D.1) $7_{-2}$ Bit Type       Bit Type       Size / 2'c/ / in.       D. Gasser         V.G. Temp. Reading $\cdot$ 0 F.       Mod       Mod       Mod       D. Gasser       D. Gasser         Fann Viscosity (Cps.)       /C2       Total Mud in System       bbls.       D. Super Choi         Plassic Viscosity (Cps.)       /C       Pump Size x       in. Min.       D. Monitor         Yield Point (Ibs./100 Sq. Ft.)       /C       Pump Size x       in. Min.       D. Monitor         Get Strength (Initial)       Zu       Stroke       D. Trip Guard       Mod Weigh         Get Strength (10 Min.)       Z.??       Mud Cycle       Min.       P.V.T.         Get Strength (10 Min.)       Z.??       Mud Cycle       Min.       File-Sensor         Cake Thickness (32nds.)       3       Drill Pipe       In.       Ann. Vel.       ,         CEC (AP1 Equiv. #/bbl. Bent.)       Drill Collar       In.       Ann. Vel.       ,         PH HT-HP Fluid Loss (CC/30 min.)       Drill Collar       In.       Ann. Vel.       ,         CEC (AP1 Equiv. #/bbl. Bent.)       Drill Collar       In.	Weight Flow Line	10.13	Surface Casing In. @	Ft. 🗖	Super Scree
Funnet Viscosity (Sec./Qt.) $H_2$ Bit Type       Bit Type       Bit Z'C/       In       D. Gasser         V.G. Temp. Reading - 0 F.       In Hole       bbls.       Adjustable       Adjustable       Strokes       bbls.       Adjustable         Fann Viscosity (Cps.)       I/Cl       Total Mud in System       bbls.       Strokes       Monitor         Plastic Viscosity (Cps.)       I/Cl       M ¹ / ₂ Strokes       Monitor       Monitor         Yteld Point (lbs./100 Sq. Ft.)       I/Cl       M ² / ₂ Strokes       In. Min.       Monitor         Gel Strength (Initial)       2/Cl       Bbls./       Output       Bbls./       P.V.T.         Gel Strength (10 Min.)       2/Cl       Mud Cycle       Min.       Mud Weigh         API Water Loss (cc. in 30 min.)       2/Cl       Drill Fips       In. Ann. Vel.       Fib-Sensor         Cake Thickness (32nds.)       5       Drill Fips       In. Ann. Vel.       Fib-Sensor         Cake Thickness (32nds.)       5       Drill Collar       In. Ann. Vel.       Fib-Sensor         Cake Thickness (32nds.)       5       Drill Collar       In. Ann. Vel.       Fib-Sensor         Pl HT-HP Fluid Loss (CC/30 min.)       5       Drill Collar       In. Ann. Vel. <td>Weight Suction</td> <td></td> <td>Intermediate Casing In. Q</td> <td>F1. 0</td> <td>Centrifuge</td>	Weight Suction		Intermediate Casing In. Q	F1. 0	Centrifuge
V.G. Temp. Reading - 0 F.       Mud in Hole       bbls. Tanks       bbls.       Adjustable         Fann Viscosity (Cps.)       //2       Total Mud in System       bbls.       Super Chok         Plastic Viscosity (Cps.)       //2       Total Mud in System       bbls.       Super Chok         Plastic Viscosity (Cps.)       //2       Mump Size       x       in. Min.       Monitor         Yield Point (Ibs./100 Sq. Fl.)       //2       Mud System       In. Min.       Monitor         Gel Strength (Initial)       Z.c       Bbls./       Strokes       Output       Bbls.         Gel Strength (10 Min.)       Z.?       Mud Cycle       Min.       Mud Weigh         API Water Loss (cc. in 30 min.)       D.       Curculating BTM Up       Min.       Flo-Sensor         Cake Thickness (32nds.)       S       Drill Pipe       In.       Ann. Vsl.         API HT-HP Fluid Loss (CC/30 min.)       Drill Collar       In.       Ann. Vsl.         CEC (API Equiv. M/bbl. Bent.)       Drill Collar       In.       Ann. Vsl.         PAL Alkalinnity (M1)       S       REMARKS - (Give operation, hole condition, and nature of any pro         M. Alkalinnity (M1)       S       Co.//////// Mc. (A       Sate (I-PPM         Sate (I-PPM       Chonrid	Funnel Viscosity (Sec./Qt.)		Bit		D. Gasser
Fann Viscosity (Cps.)       /Cl       Total Mud in System       Dust.       Super Chek         Plastic Viscosity (Cps.)       /C       M'Imp Size x in. Min.       Monitor         Yield Point (lbs./100 Sq. FL.)       /C       M'Imp Size x in. Min.       Monitor         Gel Strength (Initial)       Zc       Bbls.       Trip Guard         Gel Strength (Initial)       Zc       Bbls.       Trip Guard         Gel Strength (10 Min.)       Z.72       Mud Cycle       Min.       P.V.T.         Gel Strength (10 Min.)       Z.72       Mud Cycle       Min.       Mod Weight         API Water Loss (cc. in 30 min.)       Z.72       Mud Cycle       Min.       FloSensor         Cake Thickness (32nds.)       Z       Drill Pipe       In.       Ann. Vel.         API HT.HP Fluid Loss (CC/30 min.)       Drill Collar       In.       Ann. Vel.         CEC (API Equiv. #/bbl. Bent.)       Duilt Collar       In.       Ann. Vel.         PAL Allinity (PI)	V.G. Temp. Reading - 0 F.	- <del></del>	Mud		Adjustable
Plastic Viscosity (Cps.)       /C $\mu_{10}^{Plastic}$ Strokes       Image: Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Ma		10			Super Chok
Yield Point (Ibs./100 Sq. Ft.)       ///.       Point Star       X in. min.         Yield Point (Ibs./100 Sq. Ft.)       ///.       Prime Size       X in. Min.       Trip Guard         Gel Strength (Initial)       Z iv       Bills./       Output       Bills./       Trip Guard         Gel Strength (10 Min.)       Z iv       Buils./       Output       Bills./       In. Min.       P.V.T.         Gel Strength (10 Min.)       Z iv       Mud Cycle       Min.       Mud Weight         API Water Loss (cc. in 30 min.)       Z iv       Drill Pipe       In. Ann. Vel.       FlorSensor         Cake Thickness (32nds.)       S       Drill Collar       In. Ann. Vel.       FlorSensor         CEC (API Equiv. #/bbl. Bent.)       Drill Collar       In. Ann. Vel.       Optil Collar       In. Ann. Vel.         OH, Strip IJ       Beckman II       //.5'       Circ. Pressure       PSI       Hydrostatic Press         P. Alkalinity (Pf)       .g       REMARKS - (Give operation, hole condition, and nature of any prol         M. Alkalinity (Mf)       Dir./// .go.//       Dir./// .go.//       Dir./// .go.//         Sate II "PPM       Choride II PPM       PA       Zo.//       Co.// .go.//       Dir.// .go.//         Solids Content (% by Vol.)       //       <					Monitor
Get Strength (Initial) $I_L$ Pump Size       x       In. Min. $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ $I_L$ <th< td=""><td></td><td></td><td>N2 Strokes</td><td><u>_</u></td><td></td></th<>			N2 Strokes	<u>_</u>	
Control       Strake       Output       Min.         Gel Strength (10 Min.) $2.73$ Mud Cycle       Min.       Mud Weight         API Water Loss (cc. in 30 min.) $50$ Circulating BTM Up       Min.       Flo-Sensor         Cake Thickness (32nds.) $3$ Drill Pipa       In.       Ann. Vol.         API HT-HP Fluid Loss (CC/30 min.)       Drill Collar       In.       Ann. Vol.         CEC (API Equiv. #/bbl. Bent.)       Drill Collar       In.       Ann. Vel.         CEC (API Equiv. #/bbl. Bent.)       Drill Collar       In.       Ann. Vel.         PA, Strip L3       Beckman D $1/.5'$ Circ. Pressure       PSI       Hydrostatic Press         P. Alkalinity (P1)       , 8       REMARKS - (Give operation, hole condition, and nature of any prol         M. Alkalinity (M1)       Dimit (12/14)       Mod K         Sate (S-PPM       Choride () PPM $720.4$ Calcium PPM E3 $2.000$ $Coll frame (lhouride milling flaver in flaver)         Solids Content (% by Vol.)       7 pil.         Sand Content (% by Vol.)       72 2000 602 20000 602 20000 602 20000 602 20000 602<$			Bbls./	Bbis.	
API Water Loss (cc. in 30 min.) $30$ Circulating BTM Up       Min. $Pio$ Sensor         Cake Thickness (32nds.) $3$ Drill Pips       In.       Ann. Vel.         API HT-HP Fluid Loss (CC/30 min.)       Drill Collar       In.       Ann. Vel.         CEC (API Equiv. #/bbl. Bent.)       Drill Collar       In.       Ann. Vel.         pH, Strip [:]       Beckman [] $1/.5'$ Circ. Pressure       PSI       Hydrostatic Press         P. Alkalinity (Pf)       .8       REMARKS - (Give operation, hole condition, and nature of any prol       M. Alkalinity (Mf)         Salt [] "PPM Chloride [] PPM $2C_{300}$ $Lo.Firmin (horizon) (hole condition, and nature of any prol         Calcium PPM E]       2C_{300} Lo.Firmin (horizon) (hole condition, and nature of any prol         Solids Content (% by Vol.)       .7       pil.         Suids Content (% by Vol.)       .7       pil.         Suids Content (% by Vol.)       .7       pil.         Suids Content (% by Vol.)       .7       pil.         Suids Content (% by Vol.)       .7       pil.         Suids Content (% by Vol.)       .7       pil.         Suids Content (% by Vol.)       .7       pil. $				Min.	· ·
Cake Thickness (32nds.)SDrill PipeIn.Ann. Vol.API HT-HP Fluid Loss (CC/30 min.)Drill CollarIn.Ann. Vol.CEC (API Equiv. H/bbl. Bent.)Drill CollarIn.Ann. Vol.DH. Strip IIIBeckman III $1/1.5'$ Circ. PressurePSIP. Alkalinity (Pf). 8REMARKS - (Give operation, hole condition, and nature of any probM. Alkalinity (Mf)Drill IIII / 2/14HoleSalt III PPMChloride IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		and the second second second second second second second second second second second second second second secon			
API HT-HP Fluid Loss (CC/30 min.)Drill CollarIn.Ann. Vel.CEC (API Equiv. H/bbl. Bent.)Drill CollarIn.Ann. Vel.pH, Strip (J)Beckman (I) $1/.5'$ Circ. PressurePSIHydrostatic PressP. Alkalinity (P1). 8REMARKS - (Give operation, hole condition, and nature of any prolM. Alkalinity (M1)Durill (2/14) $hole condition, and nature of any prolSalt (GrPPM)Chloride (I) PPM20.44CalciumPPM (E)2(300)Lo. Intrue (hlouride (Mater in flux))Gil Content (% by Vol.)7pitSolids Content (% by Vol.)7pitSudGESTIONS - (To be followed only if the operator deems advisable.)La + 19000 (a) 20:00 hu s$					
CEC (API Equiv. #/bbl. Ben1.)       Drill Collar       In. Ann. Vel.         pH, Strip []       Beckman [] $ 1,5' $ Circ. Pressure       PSI       Hydrostatic Press         P. Alkalinity (Pf)       .8       REMARKS - (Give operation, hole condition, and nature of any pro         M. Alkalinity (Mf)       Dmill 12'14       Hole         Salt [] PPM       Chloride [] PPM       PM         Calcium PPM E]       20.04       Colling (Inter in flux)         Galcour PPM E]       2000       Colling (Inter in flux)         Solids Content (% by Vol.)        F. 10 BpH, Built 13ppg Slourd         Solids Content (% by Vol.)           Suggestions (% by Vol.)           Suggestions - (To be followed only if the operator deems advisable.) $La \stackrel{+-1}{=} 19000$ (a) 20:00 hu s					
pH, Strip $\Box$ Beckman $\Box$ $ /, S' $ Circ. Pressure       PSI       Hydrostatic Press         P. Alkalinity (Pf)       .8       REMARKS - (Give operation, hole condition, and nature of any prob         M. Alkalinity (Mf)       Dirill 12'4 hole       Dirill 12'4 hole         Salt $\Box$ PPM Chloride $\Box$ PPM $\Xi$ Out       Content (Lowinde $\Box$ PPM $\Xi$ Cond       Content (Lowinde $\Box$ PPM $\Xi$ Cond       Content (Lowinde $\Box$ PPM $\Xi$ Cond         Calcium PPM $\Xi$ 2000       Content (% by Vol.)       F 10 BpH, Built 13ppg Slown         Solids Content (% by Vol.)       7       pit.         SudGESTIONS - (To be followed only if the operator deems advisable.)       Cu + 1 20000 (a) ZO:00 hus	·····		Drill Collar In. Ann.	Vel.	<u> </u>
P. Alkalinity (P1)       . 8       REMARKS - (Give operation, hole condition, and nature of any prof         M. Alkalinity (M1)       Dmill 12'4 hole         Salt G-PPM Chloride PPM 20.4       Dmill 12'4 hole         Calcium PPM D       20.04         Calcium PPM D       20.00         Content (% by Vol.) $r = 10$ BpH, Built 13ppg Slowd.         Solids Content (% by Vol.) $7$ Sand Content (% by Vol.) $7$ SuggESTIONS - (To be followed only if the operator deems advisable.) $La^{+4}$ 19000 (a) 20:00 hus			Drill Collar In. Ann.	Vel.	
M. Alkalinity (M1) Salt G-PPM Chloride PPM 220,4 Calcium PPM E 2000 Coloride Mater in flux Gil Content (% by Vol.) Solids Content (% by Vol.) Sand Content (% by Vol.) Suggestions - (To be followed only if the operator deems advisable.) Cut + 19000 (2) 20:00 hus	pH, Strip 🖾 Beckman 🗋		Circ. Pressure PSI Hydr	ostatic Press	
Salt $\square$ PPM Chloride $\square$ PPM $2 \bigcirc M$ Calcium PPM $\square$ $2 \bigcirc M$ Oil Content (% by Vol.) $\square$ Solids Content (% by Vol.) $\square$ Sand Content (% by Vol.) $\square$ SUGGESTIONS - (To be followed only if the operator deems advisable.) $\mathcal{L}a^{++}$	P. Alkalinity (Pf)	.8		lition, and na	ture of any prol
Calcium PPM E $2(301)$ $laline laline laline mathematical laring later in flux         Oil Content (% by Vol.)       rain laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline laline$	M, Alkalinity (Mf)		Drill 12'14 hole	•	
Gil Content 1% by Vol.)     F 10 BpH, Built 13ppg Slown       Solids Content 1% by Vol.)     7       Sand Content 1% by Vol.)     17       Suggestions - (To be followed only if the operator deems advisable.)     Cut + 19000 (a) 20:00 hus	Salt CITPPM Chloride C PPM	1204			
Oil Content 1% by Vol.)     F 10 BpH, Built 13ppg Slowd.       Solids Content 1% by Vol.)     7       Sand Content 1% by Vol.)     17       Suggestions - (To be followed only if the operator deems advisable.)     Cat + 19000 (a) 20:00 hus	Calcium PPM E	ZGON	Colinia Chloride	unter	in they
Sand Content (% by Vol.) SUGGESTIONS - (To be followed only if the operator deems advisable.) $\mathcal{L}_{\mathcal{A}} \stackrel{++}{\longrightarrow} \mathcal{I} \mathcal{D} \mathcal{D} \mathcal{D} \mathcal{D} \stackrel{(a)}{\longrightarrow} \mathcal{Z} \mathcal{D} : \mathcal{D} \mathcal{D} \stackrel{(b)}{\longleftarrow} \mathcal{L}_{\mathcal{U}} \stackrel{++}{\longrightarrow} \mathcal{I} \mathcal{D} \mathcal{D} \mathcal{D} \mathcal{D} \stackrel{(a)}{\longrightarrow} \mathcal{Z} \mathcal{D} : \mathcal{D} \mathcal{D} \stackrel{(b)}{\longleftarrow} \mathcal{L}_{\mathcal{U}} \stackrel{(c)}{\longrightarrow} \mathcal{L}_{\mathcal{U} \stackrel{(c)}{\longrightarrow} \mathcal{L}_{\mathcal{U}} \stackrel{(c)}{\longrightarrow} \mathcal{L}_{\mathcal{U}} \stackrel{(c)}{\longrightarrow} \mathcal{L}_{\mathcal{U}} \stackrel{(c)}{\longrightarrow} \mathcal{L}_{\mathcal{U}} \stackrel{(c)}{\longrightarrow} \mathcal{L}_{\mathcal{U}} \stackrel{(c)}{\longrightarrow} \mathcal{L}_{\mathcal{U}} \stackrel{(c)}{\longrightarrow} \mathcal{L}_{\mathcal{U}} \stackrel{(c)}{\longrightarrow} \mathcal{L}_{\mathcal{U} \stackrel{(c)}{\longrightarrow} \mathcal{L}_{\mathcal{U}} \stackrel{(c)}{\longrightarrow} \mathcal{L}_{\mathcal{U}} \stackrel{(c)}{\longrightarrow} \mathcal{L}_{\mathcal{U}} ($	Oil Content (% by Vol.)		= 10 Bett, Build	+ 13pp	a Sland
SUGGESTIONS - (To be followed only if the operator deems advisable.) $La^{+4} / 9000$ (a) $ZO: DO hus$	Solids Content (% by Vol.)	7	oit.		/
	Sand Content (% by Vol.)	1/7.			
		aniy if the operator deems advis	sable.) Lu ⁺⁴ 19000 (2)	20:00	hus
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FIELD	DRILLING	MUD	REPORT

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OILFIELD PRODUCTS D	IVISION , ISECURI			MAGCOBAR)
CHECK No. 12 .			Date De	+ 6
Well Name Iteredownet	or tolay bear	Legal Description		
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Company House and	C I P		1	
Report For Mr. Lou farak	San Johnson	Report For Mr. C. F.	lore.	•
Address 1.1.1		Address Ar 14		
Sample From: Pit La Flow Line La		Hole and Circulation Da	ta	Swaco Equip
Time Sample Taken	0730 i	Spud Date ·		D. Silter
Depth	3620	Fill Last Trip	F1.	D. Sander
Weight Flow Line	10.7	Surface Casing In.@	F1.	D Super Scr
Weight Suction	/0.2	Intermediate Casing In. @	F1.	Centrifuge
Funnel Viscosity (Sec./Qt.)	37	Bit Type Bit Size/2	12	D. Gassor
V.G. Temp. Reading - 0 F.		Mud in Hole bbls. Tanks	bbls.	177 44 44 44
Fann Viscosity (Cps.)	11	Total Mud in System	bbis.	Super Cl.o
Plastic Viscosity (Cps.)	6	M1 Pump Size 7 x 12 In. Min.	98	Monitor
Yield Point (lbs./100 Sq. Ft.)		H2 Pump Size x In. Min.		D Trip Guar
Gel Strength (Initial)	6	Bbls./ Stroke Output /4	Bbls.	D P.V.T.
Gel Strength (10 Min.)	15	Mud Cycle	Min.	D Mud Weig
API Water Loss (cc. in 30 min.)	13	Circulating BTM Up	Min.	1
Cake Thickness (32nds.)	3	Drill Pipe in.	Ann. Vel.	115
API HT-HP Fluid Loss (CC/30 min.)	-1	Drift Collar In.	Ann, Vel.	185
CEC (API Equiv. #/hbl. Bent.)	+	Drill Collar In.	Ann. Vel.	241
pH. Strip (J Beckman []		Circ. Pressure 2 C/ CU PSI	rlydrostatic P	
P. Alkalinny (PI)		REMARKS - (Give operation, ho		
M, Alkalinity (Mf)	.4	5.11 1.11		
Salt D PPM Chloride D PPM	274	Drill Lalle	Linter	v flow 6-1
Calcium PPM (3)-	27214	T. P. L.L	- it	el ze Rh
	24.11	Trip for bit	-110w	ed 26 66.
Oil Content (% by Vol.)	+			
Solids Content (% by Vol.)	8.8			
Sand Content (% by Vol.)	12.			
SUGGESTIONS ~(To be followed o	inly if the operator deems ad	visable.		
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MAGCOBAR WAREHOUSE	i.	MAGCOBAR ENGINEER		
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OILFIELD PRODUCTS	DIVISION (SECURI	TY - SWACO - GUI	IRERSON A M	AGCOBARI
CHECK No. 13.			Date Lief -	2
E. Lines	gial parts an	Legal Description		
.114 4 -	The Juper a pres		633	
Company Figures	1011	Contractor <u>T-UN/0</u>	acre De	•
Report For Mr. Lass file	ut Shan Johnson	A. Report For Mr	MAIDICe	
Address Address		Address <u>Kr G</u>	<u>`</u>	
Sample From: Pit Flow Line Flowline Temp.	Mud Properties	Hole and Circulation	Data	Swaco Equipmen
Time Sample Taken	0800	Spud Date		D. Silter
Depth	3726	Fill Last Trip	Ft. 🛛	D. Sander
Weight Flow Line	11	Surface Casing In, @	. Ft. D	Super Screen
Weight Suction	11	Intermediate Casing In.@	F1. 0	Centrifuge
Funnel Viscosity (Sec./Qt.)	139 1 1	Bit Type Size	12 14 In. 0	D. Gasser
V.G. Temp. Reading - 0 F.		Mud in Hole bbis. Tani		Adjustable Cho
Fann Viscosity (Cps.)	15	Tatal Mud in System	bbls.	Super Choke
Plastic Viscosity (Cps.)	1.0	NI Pump Size 7 x / 2 in. Mi	nkes 90 D	Monitor
Yield Point (Ibs./100 Sq. Ft.)	1.		okes 🗖	Trip Guard
Gel Strength (Initial)	9	Bbis./ Stroke Output /	Bbis,	P.V.T.
Gel Strength (10 Min.)	20	Mud Cycle		Mud Weigher
API Water Loss (cc. in 30 min.)	8011	Circulating BTM Up	Min. 🛛	Flo-Sensor
Cake Thickness (32nds.)	3	Drill Pipe In.	Ann. Vel.	Ft.
API HT-HP Fluid Loss (CC/30 mir		Drill Collar In.	Ann. Vel.	FL
CEC (API Equiv, #/bbl. Bent.)		Drill Collar In.	Ann, Vel.	FL
pH. Strip 🖵 Beckman 🗍	10	Circ. Pressure PSI	Hydrostatic Press	PSI
P, Alkalinity (Pf)	• 2	REMARKS - (Gree operation,		ture of any problem
M, Alkalinity (MI)		Dull Disp	lace hole	to See W
Salt D PPM Chloride D PPN	1 3,54	but would		1 A-H.
Calcium PPM 🖸	55,11	Catting 14	d wt has	k to 9.
Oil Content (% by Vol.)		1000		
Solids Content (% by Vol.)	8.8			
Sand Content (% by Vol.)	1/2	Adding prch	nichrated a	el.
SUGGESTIONS - (To be followed	s only if the operator deems adv		7	
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MAGCOBAR WAREHOUSE		MAGCOBAR ENGINEER		•
		D. Worth.		
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OILFIELD PRODUCTS	DIVISION (SEC	URITY . SWACO . G	UIBERSON .	MAGCODAR
CHECK No.	/		ہو	_ /
Well Name State Parts	lal tolay to de	- 11-20 Legal Description		
and the section of	A G I	Legal Description	10 207 1	233 29
Company	15 (3.1 175	Contractor	qo <u>ni G</u> Z	
Report For Mr. Divin	-HNSCH	Contractor <u>Contractor</u> Report For Mr. <u>Cl.1</u>	and Maria	11
Address		Address		
Sample From: Pit 🛄 Flow Line 🚍 Flowline Temp P		Hole and Circulate		
Time Sample Taken	I I			Swaco Fouipm
Depth	5991	Spud Date		D. Silter
Weight Flow Line		Fill Last Trip	Ft.	D.Sander
Weight Suction	0-9	Surface Casing 20 In.@		Super Screen
Funnel Viscosity (Sec./Qt.)		Casing Siln. @	.3175 FL.	Centrifuge
V.G. Temp. Reading - o F.		Mud	12/12 In.	D D. Gasser
Fann Viscosity (Cps.)	┿╾╌┼╌╴┼╌╴	in Hole bbls. Ta	nks_SSDbbls.	D Adjustable Ci
	15	Total Mud in System	into buts.	Super Choke
Plastic Viscosity (Cps.)	12	Pump Size 7 x 7 In. N	in: JA	Monitor
Vield Paint (lbs./100 Sq. Ft.)		Pump Size 7 x/? In. M	okes in.	D Trip Guard
Gel Strength (Initial)	0	Bbis./ Stroke c. 43 Output /		D P.V.T.
Gel Strength (10 Min.)	-35	Mud Cycle	Min.	D Mud Weigher
API Water Loss (cc. in 30 min.)	55	Circulating BTM Up 5	D. Min.	Flo-Sensor
Cake Thickness (32nds.)	27	Drill Pipe Store In.		1/55 FL
API HT-HP Fluid Loss (CC/30 min.)		Drill Collar 3/ In.	Ann. Vel.	
CEC (API Equiv. #/bbl. Bent.)		Drill Collar		
pH. Strip 🖓 🖉 Beckman 🖾	12	Circ. Pressure 12 2000 PSI		the second second second second second second second second second second second second second second second s
P. Alkalinity (PI)	•Z	REMARKS - (Give operation,		
M. Alkalinity (MI)		Dein 1 du hale		
Salt D PPM Chloride D PPM	1224	- al Sex moto	- CIII	2 312001
	39.1	al to lill	P 7 HID	ing pre high
Oil Content (% by Vol.)	<i>ij</i>	en lo troll		2-10 opg
Solids Content (% by Vol.)	4.5		113 35	- 90
Sand Content (% by Vol.)	1.1			
SUGGESTIONS -{To be followed on	y if the operator deems ad	lvisable.)		
		<u>्र</u> संस्थित	6	
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MAGCORAR				
MAGCOBAR WAREHOUSE		MAGCOBAR ENGINEER		
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OILFIELD PRODUCTS D	IVISION (SECUR	ITY • SWACO • GUIBERSON	
_			• MAGCOBARI
CHECK No.			Concer Sh
Well Name	alfolar in and A	20 Legal Description ESS 217 11	1 28 29//
Company Company	Cirto.	Contractor	<u> </u>
Report For Mr. Standard	1. See	Report For Mr. Change in	Mudree
Address		Address	
Sample From: Pit 🖾 Flow Line 🖂		Hole and Circulation Data	Swaco Equipmen
Time Comple Takan	i. i I	Spud Date	D. Silter
Depth	100		Ft. D D. Sander
Weight Flow Line	7/98.	31.0.5	
Weight Suction	22	Intermediate	
Funnel Viscosity (Sec./Qt.)	9.34	Casing In.@ Bit Type Size	F1.
V.G. Temp. Reading - 0 F.	5%	A4	
Fann Viscosity (Cps.)		In Hole Pop bbls. Tanks 350 b Total Mud in System (250 bbls	
Plastič Viscosity (Cps.)	2.5	Total Mud in System /350 bbls H1 Pump Size 7 x12 In. Min. 9.8	D Monitor
Yield Point (lbs./100 Sy. 51.)			D Trip Guard
Get Strength (Initial)	5	Pump Size 7 x / 71n. Min. Bbls./	bis. [] BYT
Gel Strength (10 Min.)	12		Ain. D Mud Weigher
API Water Loss (cc. in 30 min.)			Min. D Flo-Sensor
Cake Thickness (J2nds.)	26 Z		115 FL
API HT-HP Fluid Loss (CC/30 min.)	+		
CEC (API Equiv, H/bbl, Bent.)			- <u>195</u> FL - 1941 - FL
pH, Strip 🖾 🛛 Beckman 🗔		Circ. Pressure 2200 . PSI Hydroste	
P. Alkalimity (PI)	23:5	REMARKS - (Give operation, hole conditio	a ann an tha an tha tha ann an tha an tha
M, Alkalinity (MI)	<u>† </u>	Denentes 12 1 d"	
Salt [] PPM Chloride [] PPM	215.0	Drachard JErs	· ·
Calcium PPM CF	53,41		
Oil Content (% by Vol.)			<u></u>
Solids Content (% by Vol.)	4.5		
Sand Content (% by Vol.)	1111		
SUGGESTIONS -(To be followed o	nly if the operator deems ad	visable.}	
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CHECK No			Date	cour 10/7d
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Company - Configurate (, <u>,</u>	
Report For ML Suid Jall			Report For Mr Lange	
	1/3/10A/		~	accin
Address	1		Address	
Sample From: Pit Flow Line Flowline Temp 0 F.	Mud Pr	Operties	Hole and Circulation Data	Swaco Equipment
Time Sample Taken	5:00	10000	Spud Date	D. Silter
Depth	1565	1:70	Fill Last Trip Dil Ft.	D. Sander
Weight Flow Line	9.3	10.3	Surface Casing = Eln. @ 50 81 Ft.	Super Screen
Weight Suction	12.21	10.74	Intermediate Casing In, @ Ft.	Centrifuge
Funnel Viscosity (Sec./Ot.)	57:57	5.0	Bit Type Bit Size	D. Gasser
V.G. Temp. Reading - 0 F.			Mud in Hole 775 bbls. Tanks 405 bbls.	
Fann Viscosity (Cps.)	7	12	Total Mud in System	Super Choke
Plastic Viscosity (Cps.)	5	2	HI Pump Size 7 X2 In. Min. 53	Monitor
Yield Point (lbs./100 Sq. Ft.)	=		Pump Size 7 x / 2In. Min.	D Trip Guard
Get Strength (Initial)	2	- 15	Bbls./ Stroke - 145. Output 14 Min.	D Р.V.Т.
Gel Strength (10 Min.)	e	17	Mud Cycle Min.	{
API Water Loss (cc. in 30 min.)	60	- 630-	Circulating BTM Up Min.	Fip-Sensor
Cake Thickness (32nds.) .		Ľ.	Drill Pipe In, Ann. Vet,	EG Ft/Min.
API HT-HP Fluid Loss (CC/30 min.)			Drill Collar Sister In. Ann. Vel.	18-5 F1/Min.
CEC (API Equiv. #/bbl. Bent.)	1		Drill Coller	Det FL/Min.
pH. StripCi Beckman	25	10.5		ress Figo. PSI
P. Alkalinity (Pf)	2	<u>.</u> :Z	REMARKS - (Give operation, hole condition, a	nd nature of any problems.)
M, Alkalinity (Mf)	<u> </u>		Tote of The Since la	ESTEPTED
Salt CAPPM -Chlonde - PPM		Part	Goo an Ter	
Calcium PPM 👾	17.5.1	77,.	Demanny 124 "ho	É
Oil Content (% by Vol.)	<u> </u>			
Salids Content (% by Vol.)	5	-5		I
Sand Content (% by Vol.)		14		
SUGGESTIONS -ITo be followed on	iny in the operato	r deems advisab	100 Koning Surly 11 25	Seing Vis
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			-	MAGCOBARI .
CHECK No		·····		13/74
57	1 1	020 Legal Description		58291
Company Agent Come C	CANLES.	_ Contractor		
Report For M	MAISZON	_ Report For Mr Cancer	loier	<u></u>
Address Lie		Address 7-200,		·····
Sample From: Pit 🚅 Flow Line 🖃		Hole and Circulation Data		Swaco Equipmen
Flowline Temp º F. Time Sample Taken				
Depth		Spud Date Fill Last Trip		D. Silter
	7.5-7/		Ft.	
Weight Flow Line	10.2-	Surface Casing 73 34n. 0306)	/ Ft.	
Funnet Viscosity (Sec./Qt.)	1.7 = -	Casing In. @	F1.	D. Gasser
	57	Bit Type Bit 12/1		
V.G. Temp. Reading - 0 F.		in Hole 740 bbls. Tanks 40		1- <u>-</u>
Fann Viscosity (Cps.)	10	Total Mud in System	bbis.	
Plastic Viscosity (Cps.)	<u>.</u>	Pump Size 7 x 1/21n. Min.	<u>*e.</u>	Monitor
Yield Point (Ibs./100 Sq. Ft.)	3	Pump Size 7 x / 2 In. Min.	Bbis.	Trip Guard P.V.T.
Gel Strength (Initial)		Stroke	Min,	
Gel Strength (10 Min.)	10	Mud Cycle 9.2.	Min,	
API Water Loss (cc. in 30 min.)	50	Circulating BTM Up	Min.	•
Cake Thickness (32nds.)	2		nn. Vel.	1/5FL/
API HT-HP Fluid Loss (CC/30 min.)	<u> </u>		nn. Vel. /	95 FU
CEC (API Equiv. #/bbl. Bent.)			nn, Vel.	241 FL
pH. Strip 🔝 🛛 Beckman 🖾	12.5		_	ress 7 dlas PSI
M, Alkalinity (Mf)	-2	REMARKS - (Give operation, hole co	ondition, a	nd nature of any problem
		Dening 12'4 "hole	<u>. </u>	
Salt C PPM Chloride PPM		- <u> </u>		
·····	77.11			
Oil Content (% by Vol.) Solids Content (% by Vol.)				<u> </u>
Sand Content (% by Vol.)	2			
SUGGESTIONS - {To be followed or				± ¹⁴
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CHECK No.			· MAGCONARI
Well Name	fal flaps	de 024 egal Description 5547	1 28 2911
Company	Canda .	Contractor <u>Contractor</u>	2
Report For Mr	HALSTON!	Report For Mr Church Ma	uere.
Address	•	Address	
, Sample From: Pit _ Flow Line _		Hole and Circulation Data	Swaco Equipmen
Flowline Temp º F			
Time Sample Taken		Spud Date	D. Silter
Depth	1720	Fill Last Trip	F1. D. D. Sander
Weight Flow Line	10-	Surface Casing 138tn. @ 3081.	Ft. Super Screen
Weight Suction	12.1	Intermediate Casing In. 6	Ft. Centrifuge
Funnel Viscosity (Sec./Qt.)	56		in. D. Gasser
V.G. Temp. Reading - 0 F.	<u> </u>	Mud in Hole 760 bbls. Tanks 430	bbls. Adjustable Cho
Fann Viscosity (Cps.)	8	Total Mud in System :1150 bb	is. D Super Choke
Plastic Viscosity (Cps.)	4	H1 Pump Size 7 x/2 In. Min.	D Monitor
Yield Point (lbs./100 Sq. Ft.)	17	N2 Pump Size 7 x/ 2in, Min. 9.2	D Trip Guard
Gel Strength (Initial)	4	Bbis./ Stroke _ 43 Output / 2.4	Bbis. D P.V.T.
Get Strength (10 Min.)	m	Mud Cycle Eller	Min. D Mud Weigher
API Water Loss (cc. in 30 min.)	50		Min. D Flo-Sensor
Gake Thickness (32nds.)		Drill Pipe 5 In. Ann. Ve	1. 110 . Fu
API HT-HP Fluid Loss (CC/30 min.)		Dritt Collar 31 In. Ann. Ve	
GEC (API Equiv. #/bbl. Bent.)	1	Drill Collar (1. Ann. Ve	
i pH. Strip 🕕 🛛 Beckman 🗂	19.51	Girc. Pressure 2200 PSI Hydrost	atic Press 2570 PSI
P. Alkalinity (Pf)	57	REMARKS - (Give operation, hole condition	
M. Alkalinity (Mf)		Derice to 12:15	·····
Salt [2 PPM Chloride - PPM	م برج جز		olo oray 1
Calcium PPM	1=3,	Deice 19/12	0,10 0, 144 1
· Oil Content (% by Vol.)		- Relle 1717-	
Solids Content (% by Vol.)			
Sand Content (% by Vol.)	11		
SUGGESTIONS -ITo be followed on	nly of the operator deems a	rivisable.)	
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CHECK No. 19				toda 12/2
	1 1 20			
		020 Legal Description	36 91 11	<u>58-29 M</u>
Company Light Annes Co	SCAN US	Contractor <u>TENT</u>	AGONE P.2	
Report For Mr. Sinne	WASTON	Report For Mr. Cur	UDE MALTIN	<u>ere</u>
Address 1- 1-	·	Address		
Sample From: Pit D-Flow-Line	F. Mud Properties	Hole and Circulat	ion Data	Swaco Equipm
Flowline Temp,o		Spud Date		D D. Silter
Depth		Fill Last Trip		D. Sander
Weight Flow.Line	- 12/0	Surface Casing 3 Sin.	F1.	
	12.21	Intermediate	<u>^е 308/ Fi</u> .	
Weight Suction	20	Casing In. 6		D Centrifuge
· Funnel Viscosity (Sec./Qt.)	56		2e / 21 - in.	
V.G. Temp. Reading - 0 F.		in Hole 76-5 bbls. T	anks 400 bbls.	Adjustable C
Fann Viscosity (Cps.)	5.5	Total Mud in System	13.5 bbis.	Super Choke
Plastic-Viscosity (Cps.)	2	Pump Size 7 x/2In.	Strokes Min,	C Monitor
Vield Point (lbs./100 Sq. Ft.)	15			D Trip Guard
: Gel Strength (Initial)	7	Bbls./ Stroke Output	Bbis. Min.	□ Р.V.Т.
(Gel Strength (10 Min.)	1.4	Mud Cycle Se	3 Min.	Mud Weigher
API Water Loss (cc. in 30 min.)	FO	Circulating BTM Up	S. Min.	Flo-Sensor
(Cake Thickness (32nds.)	2	Drill Pipe 5	n. Ann. Vel.	10 1
/API HT-HP Fluid. Loss (CC/30 min.	1	Drill Collar	n. Ann. Vel.	1700
CCEC (API Equiv. #/bbl. Bent.)		Drill Collar	n. Ann. Yel.	230 1
: pH. Strip	1051	Circ. Pressure ZEAD P	SI Hydrostatic Pr	ress P
PrAlkalimity (PI)	-3	REMARKS - (Give operati	on, hole condition, ar	nd nature of any prob
M/Alkalinity (Mf)		Dein 1214 holo		
Salt 73 PPM Chloride D PPM	22 Pro			
Calcium PPM	77.71	Annun Ber	apenter Ge	1. KezAN
(Oil Content (% by Vol.)		DRISPAC	to line	ense VV
Solids Content (% by Vol.)		· HELE APPEARS	to Le Air	ANING RETE
(Sand Content (% by Vol.)				
SUGGESTIONS-ITo be followed	only if the operator deems a	dvisable,)		
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CHECK No. 20			•	Date Com	
Well Name PAPERTAILS of	al jour	RibEARY	20 Legal Description	47115	8° 79 11.
Company Asy inner Col				•	
Report For Mr. STAAL Journ	-		- Report For Mr. CLAU		· /
i de	<u></u>		\mathcal{D}	00 1762577	
Address <u>for the second</u>	· · · · · ·		Address		
Sample From: Pit 🗇 Flow Line 🗇 Flowline Temp9 F.	. Mi	ud Properties	Hole and Circulatio	Data	Swaco Equipmo
Time Sample Taken	17:15	1200	Spud Date		D D. Silter
Depth	5160	3/2	Fill Last Trip	Ft.	D D. Sander
Weight Flow Line	10.3	10-2	Surface Casing / 33 4n.@	308/ FL	Super Screen
Weight Suction	10.21	10.2	Intermediate Casing In. @	Ft.	Centrifuge
Funnel Viscosity (Sec./Qt.)	37	58 📃		1214 in.	D. Gasser
V.G. Temp. Reading - º F.	ļ ļ		Mud in Hole Car bbls. Tar		Adjustable C
Fann Viscosity (Cps.)	125	5.5	Total Mud in System	1-700 bbls.	Super Choke
Plastic Viscosity (Cps.)	6.2	10	Pump Size 7 x / ZIn. M		D Monitor
Yield Point (Ibs./100 Sq. Ft.)	2	11	H2 Pump Size 7 x/2In. M		Trip Guard
Gel Strength (Initial)	4	4	Bbls./ Stroke . 143 Output /.	······	D Р.V.Т
Gel Strength (10 Min.)	10	12.	Mud Cycle 93	Min.	Mud Weigher
API Water Loss (cc. in 30 min.)	72	70	Circulating BTM Up	D Min.	Flo-Sensor
Cake Thickness (32nds.)	2	2	Drill Pipe in.	Ann. Vel.	//0 ·F
API HT-HP Fluid Loss (CC/30 min.)	. 	·	Drill Collar		170 F
CEC (API Equiv. #/bbl. Bent.)	<u> </u>		Drill Collar 9/2 in.	Ann. Vel.	230 5
pH, Strip 🕒 Beckman 🗆	10.5	0.5	Circ. Pressure		1011 7 000. P
P. Alkalinity (Pf)	2	.2	REMARKS - (Give operation		nd nature of any probl
M, Alkalinity (Mf)			Deice 12/17 /12	011	
Salt PPM Chloride PPM	. Colar		Cipilate 2	dorm 1	up, trip
Calcium PPM 🖻	2:501	7511	to log.		
Oil Content (% by Vol.)	+				· · · · ·
Solids Content (% by Vol.)	5	12-	Loging to	24:00	
Sand Content (% by Vol.)	11.7	14	1		
SUGGESTIONS -{To be followed or	niy if the ope	erator deems adv	isadi e.]		··· ·
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AQUITAINE COMPANY OF CANADA LTD.

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FISHING OPERATION REPORT

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Aquit et al Polar Bear C-11

During the drilling of the Polar Bear C-11 well, only one fishing job was required, due to a twist-off in the flexweight drill pipes, used above the drill collars.

A fail to a crack and the start of a washout was found in the box of the first 8-1/2" D.C., above the 9-1/2" D.C. Fortunately, this crack was discovered while running in to condition the hole for the 13-3/8" casing. The damaged drill collar was laid down before complete failure occurred.

The damage appeared to be due to fatigue failure on the last engaged thread, probably caused by high rotation in rough, hard drilling, with the drill collars not being stabilized.

Well Situation

Status: Drilling in 17-1/2" hole at 2,792'.

Drilling Assembly: Bit, (8) 9-1/2" D.C., (10) 8-1/2" D.C., 15 Flexweight (48#), 21 stands of 5" E-19.50 D.P.

As a loss of pump pressure was recorded, the driller stopped drilling, to make a quick pump check. As he could see no problem at the pumps, he decided to pull out. While the bit was 5 to 6 feet off bottom, the string parted. The failure was a twist-off in the female tool joint of a flexweight drill pipe.

Fishing Operation

An 11-3/4" OD Bowen Series 150P overshot, dressed with a 6-1/2" basket grapple and an oversize guide for the 17-1/2" hole, was run to catch the fish. Eight hours later, the fish was laid down on the floor.

AQUITAINE COMPANY OF CANADA LTD.

LOST CIRCULATION AND GAIN ZONES

Aquit et al Polar Bear C-11

Lost Circulation

No mud loss was recorded during the drilling of this well.

Gain

The first gain (20 bbls in 40 min.) was recorded at 3,470', in the Ekwan formation (dolomite), after a short drilling break (from 3,460' - 3,470' at $2 \min/ft$).

3,460' - 3,470':		20 bbls in 40 min. of CaCl ₂ water
3,470' - 3,900':		steady gain of 15 bbls/hour
3,900' - 4,800':		steady gain of 10 - 15 bbls/hour
4,800' - 5,170':		steady gain of 10 bbls/hour
	0	

Remarks:

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Varied mud weights seemed to have no apparent effect on the influx rate of the CaCl₂ water. At 3,804', an attempt to increase the penetration rate was made, by replacing the 11.1 ppg drilling mud with sea water. This was not very successful as the flow remained at 10 -15 bbls/hour.

ABANDONMENT REPORT

Aquit et al Polar Bear C-11

Well Situation

30" casing shoe at 723' 20" casing shoe at 1,227' 13-3/8" casing shoe at 3,081' T.D. 12-1/4" hole at 5,170'

Plugging

A 3 stage continuous cement plug was run, to cover all open parts of the hole. A bridge plug was set in the 13-3/8" casing, for additional safety before setting the top cement plug.

First Stage

5,170' - 4,370' (800'): 425 sx of Oilwell Class B cement + 10% prehydrated gel. Slurry weight 12.3.

Second Stage

4,370' - 3,570' (800'): 425 sx of Oilwell Calss B cement + 10% prehydrated gel. Slurry weight 12.3.

Third Stage

3,570' - 2,770' (800'): 375 sx of Oilwell Class B cement + 10% prehydrated gel. Slurry weight 12.3.

Bridge Plug

A 13-3/8" Mercury Model K bridge plug was run with the drill pipes and set at 2,450'.

Top of Cement Plug

980' - 680': 252 sx of Oilwell Class B cement + 3% CaCl₂.

Wellhead Recovery

As the time limit for the rig to leave the Audson Bay was very close, and the weather was rapidly getting worse, a decision was made (with the agreement of EMR) to leave the two guide bases on the sea floor.

The 16" riser and 13-5/8" BOP stack were pulled out, following the standard procedure.

Timing

A total of 52.45 hours were spent from the time the drill pipes were run in the hole to plug, until the 13-5/8" BOP stack was secured on the spider deck.

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TIME ANALYSIS

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Aquit et al Polar Bear C-11

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1.	Rigging Up and Tearing Down:	105.00 hrs	13.73%	
2.	Drilling:	322.45 hrs	42.20%	
3.	Re-drilling:	0.30 hrs	0.06%	
4.	Drilling Trip:	45.30 hrs	5.95%	
5.	Hole Opening:	Nil		
6.	Coring:	Nil		
7.	Coring Trip:	Nil		8
8.	Testing:	- IN11 -		$= \circ =$
9.	Miscellaneous Operations:	48.15 hrs	_ 6.3 0% _ ,	
10.	Well Completion:	Nil	4	
11.	Casing:	122.15 hrs	15.998	
12.	Circulation:	7.15 hrs	0.95%	
13.	Fishing Job:	8.30 hrs	1.118	
14.	Abandon:	52.45 hrs	6.90%	
15.	Repairs:	18.30 hrs	2.428	
16.	Waiting Time:	33.30 hrs	4.38%	્યું છે. જે કુલ્લાન્સ્ટ ન
		······································	-	

Total: 764.45 hrs

TIME ANALYSIS

Aquit et al Polar Bear C-11

1. Rigging Up and Tearing Down

105.00 hours or 13.73% of total time. A lot of time was lost due to rough weather and problems in getting the anchors to hold. 21 hours were spent waiting for the anchors to settle and $2 \ge 20,000 \#$ piggy-back anchors were used on anchorlines D1 and D2.

Time was also lost on retrieving the anchors due to rough sea conditions and the fact that the job was done mainly by one supply vessel. (The anchor winch of the Federal 6 was unserviceable and the tow line of the Supreme Tide was attached to the rig from the beginning of retrieving the anchors.) (A)

2. Drilling

322.45 hours or 42.20% of the total time.

Average drilling rate 5,170'/322.45 = 16.02'/hour on all diameters.

The heavy CaCl₂ water (11.5 ppg) flowing into the well and keeping the mud weight over 10 ppg, impaired the penetration rate. An attempt to drill with only sea water (9.5 ppg) increased the drilling rate from 4'/hr to 18'/hr. Unfort-unately, we were obliged to return to the original mud due to hole cleaning problems.

3. Re-drilling

0.30 hours or 0.06% for checking the hole.

4. Drilling Trip

45.30 hours for 11 bits.

This performance was better than that of Narwhal South. The floormen were becoming a little more experienced.

5. Hole Opening

None

6. Coring

None

7. Coring Trip

None

8. Testing

None

9. Miscellaneous Operations

48.15 hours or 6.30% of total time for electrical surveys, velocity survey and 10 deviation surveys.

10. Well Completion

None

11. Casing

122.15 hours or 15.99% of total time for 20", 30" and 13-3/8" casings. Same as for "Drilling Trip", the performance was better than that of Narwhal South.

7.30 hours were lost cutting and re-welding a new type "L" modified buttress box coupling on the 20" shoe joint, to replace a faulty machined coupling.

12. Circulation

7.15 hours or 0.95%.

The circulations were reduced to their minimum as the hole conditions were very good at all times.

13. Fishing Job

8.30 hours or 1.11% of total time was spent in recovering the drilling bottom assembly after a twist-off occurred in the flexweight drill pipes, just above the drill collars.

14. Abandon

52.45 hours or 6.90% of total time.

This time was spent plugging the well, laying down drill pipes and drill collars and in recovering the riser and BOP stack.

15. Repairs

18.30 hours or 2.42%, divided as follows:

 $\langle \rangle$

- 2.45 for repair on slip joint (leak at the packing);
 11.45 for repair on motion compensator (leak at the lower piston rod);
- 1.30 for change of the injection wellhead wash pipe packing;
- 2.30 for rig power failure.

16. Waiting Time

33.30 hours or 4.38% of total time was spent waiting on weather, during retrieving of the anchors (sea was too rough for the supply boats working on the anchors).

The rig performance was excellent.

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WELL HISTORY

GEOLOGICAL PART

POLAR BEAR C-11

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- 1. PROGNOSI'S AND PROGRAM See the
- 2. DRILLING TICKET SAMPLE DESCRIPTION

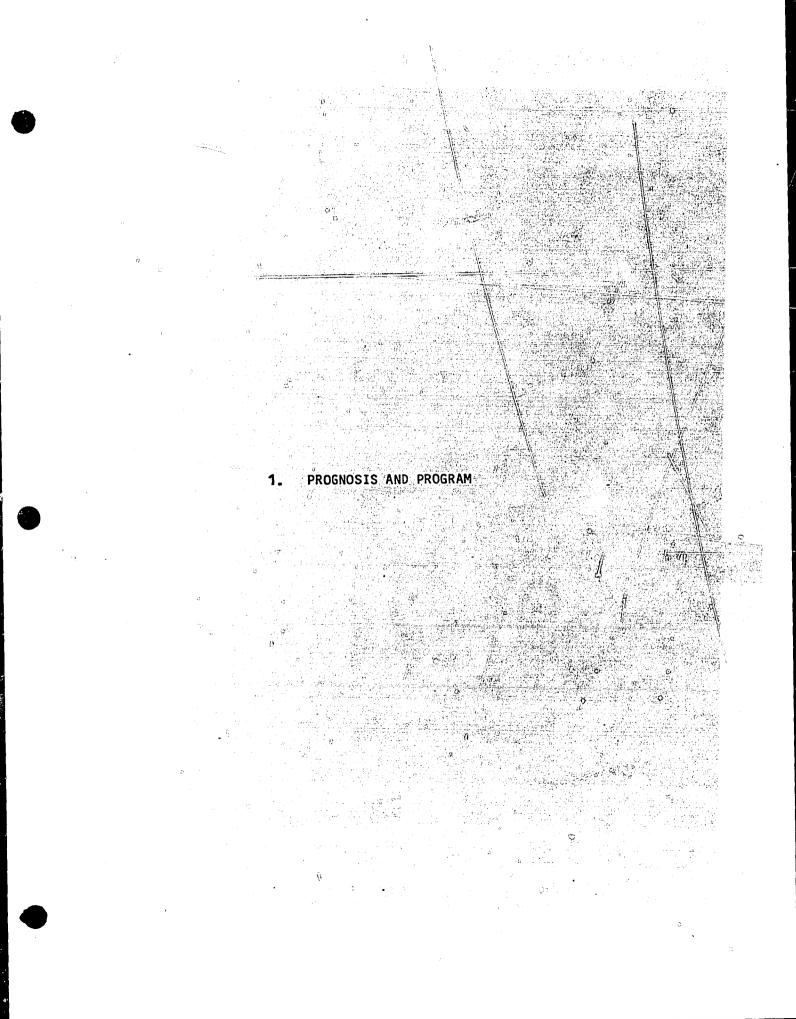
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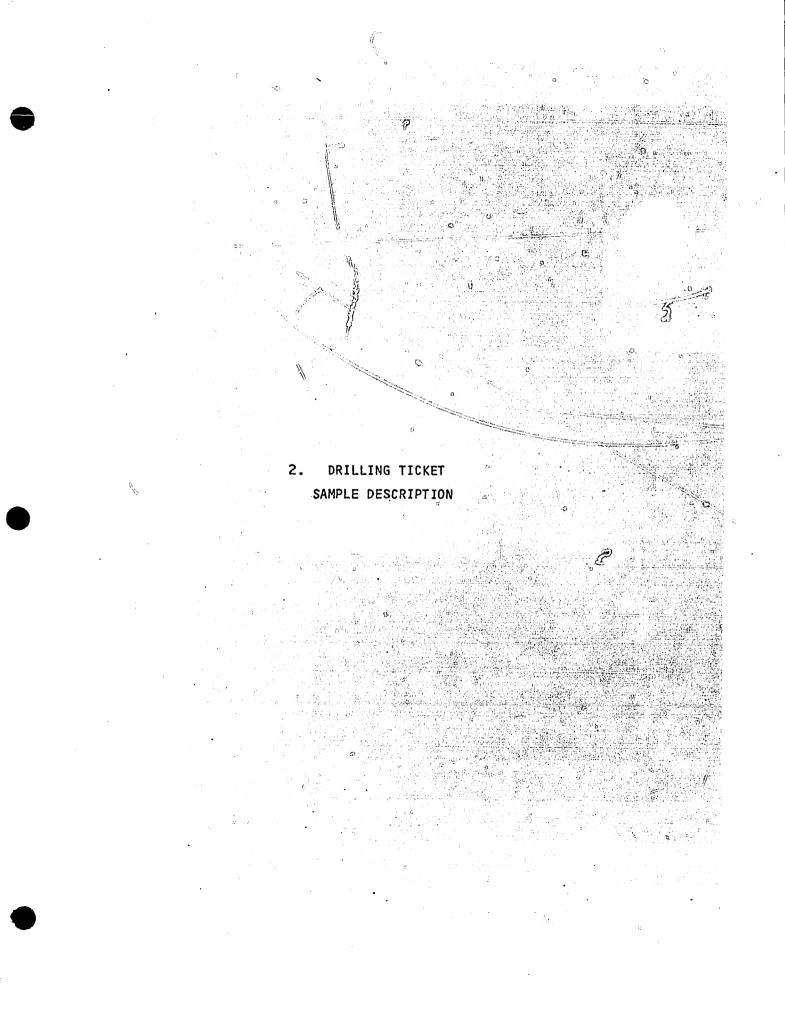
- 3. DAILY GEOLOGICAL REPORTS
- 4. WATER ANALYSIS
- 5. LOGGING

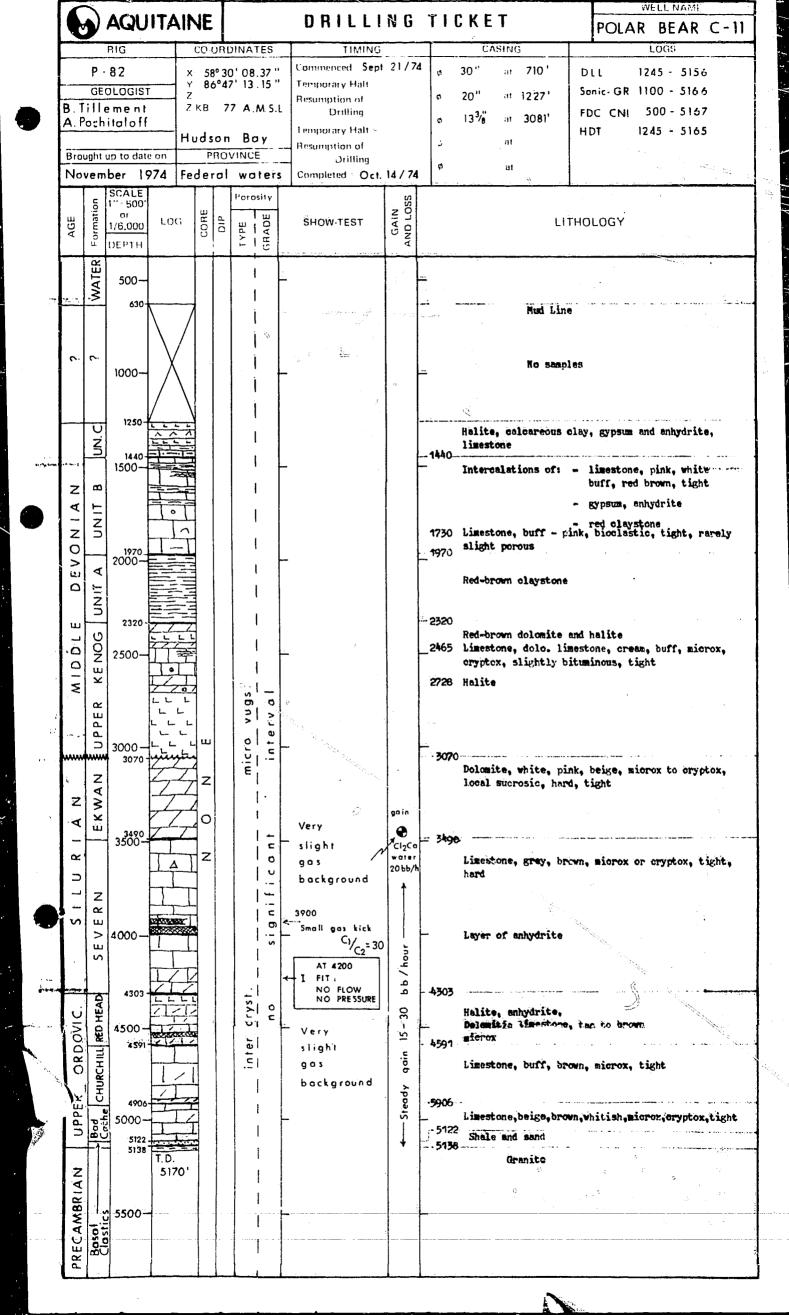
71

- logging record
- log evaluation
- logs in pocket
 - composite wellsite log (Ex-logging)
 - pressure log (Ex-logging)
 - off-line utilities (2 scales)
 - interpretative log
 - DLL
 - IIDT
 - BHC Sonic GR
 - FDC/CNL GR
 - formation tester (FIT)

- porosity analysis - Coriband







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From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Shewings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION Sheet No
1250	1260					70% Brick red brown, silty to sandy, plastic, slightly calcare clay traces of gypsiferous silica (chert) 30% cement
1260	1270					60% red brown clay, traces of gypsum - chert 40% cement
1270	1280		6 - 			50% clay as above, brick red brown orange, locally yellow 50% cement
1280	1295					80% clay, brick red brown; gypsiferous chert 20% cement
1295	1310					85% clay as above; traces gypsum 15% cement
1310	1325					85% clay, brick red traces of gypsum 15% cement
1325	1340					85% clay as above (locally yellow) 15% cement, concretion chert (rare)
1340	1355			-		100% clay as above gypsum (trace) concretion chert (rare)
1355	1370					80% clay, sandy or silty, brick red 20% gypsum or anhydrite and chert
1370	1385	, , ,				80% clay, calcareous or micrite, argillaceous, red brown sandy or silty, hard, occasionally soft 20% gypsum
1385	1400	с.	A. A. A. A. A. A. A. A. A. A. A. A. A. A			70% micrite, argillaceous, red brown, silty, hard 30% gypsum or anhydrite
1400	1410	ų.				90% micrite, argillaceous as above 10% gypsum
1410	1420		-			90% micrite, argillaceous as above 10% fibrous gypsum
1420	1430		а. С			90% micrite, argillaceous as above 10% gypsum
1430	1440			ι.		100% micrite, argillaceous as above gypsum (traces)
1440	1450		•			50% limestone, white, buff, micrite, hard, slightly porous 50% micrite, argillaceous as above traces gypsum
1450	1460					80% limestone, white, buff as above 20% micrite, argillaceous, red

SAMPLES NOT LAGGED

SAMPLES LAGGED AT FT. PER MIN.

FORM 5121 -1

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From	То	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION Sheet No. 2 CONFIDENTIAL POLAR BEAR 0-20
1460	1470					90% limestone (4 types) 10% micrite, argillaceous, red
						 Limestone: white, buff, micrite, hard, slightly porous Limestone: rose, purple, argillaceous, hard, silty Limestone: yellow (traces) Limestone: very argillaceous, red brown, silty or sandy, slightly porous
1470	1480	6			1. 1.	20% anhydrite (white) microcrystalline 80% limestone as above (4 types)
1480	1490 ^ď		•			Limestone, white, buff, predominantly micrite
1490	1500			-4 -	0	Limestone as above, predominantly white
1500	1510		10 10 A 14		2	80% predominantly limestone, argillaceous, rose purple, hard, silty, white 20% gypsum or anhydrite
1510	1520					Limestone as above, predominantly rose, purple
1520	1530					80% limestone, argillaceous, dominantly purple 20% anhydrite
1530	1540					as above
1540	1550				4 -	90% limestone, dominantly white, buff, (micrite) compact; abundant purple limestone 10% gypsum
1550	1560					90% limestone, white and purple 10% gypsum
1560	1570	-				Limestone as above traces of gypsum
1570	1580		-			90% limestone, argillaceous, purple, locally breccia (dominan 10% clay, brick red, silty
1580	1590		1. B. 1. A.			Limestone, white, dominantly purple 10% clay, brick red (sandy or silty) traces anhydrite
1590	1600					Dominantly limestone as above straces anhydrite
1600	1610					70% limestone 20% anhydrite 10% brick red clay
1610	1620					Limestone white, dominantly purple 30% anhydrite
1620	1630					as above, white often purple 20% anhydrite – gypsum

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SAMPLES LAGGED AT FT. PER MIN.

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From	То	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION Sheet NO3
1630	1640					Limestone, dominantly purple salt casts
1640	1650 හ		, 44 .			40% anhydrite 60% limestone, white or purple, dominantly argillaceous concretion brick red, porous (salt?)
1650	1660					80% limestone, as above, white or purple, argillaceous 20% anhydrite
1660	1670 °			Ň		Limestone, white, buff, dominantly dolomitic traces of brick red clay 20% anhydrite
1670	1680	л Д	; []	ν *		10% anhydrite, as above abundant aggregates (porous)
1680	1690		1			as above – brick red clay (traces) 10% anhydrite
1690	1700					50% white anhydrite limestone, white, cream, red brown plus dolomitic; limesto m. brown, micritic, tight
1700	1705			•	11 14	50% anhydrite 50% limestone as above
1705	1710					20% anhydrite 80% limestone, white-rose or red brown, dolomitic, micrite compact
1710	1715	В.,		* u .		10% anhydrite 90% limestone as above, white and red brown
1715	1720			1.1		20% anhydrite 80% limestone, dominantly red brown, occasionally calcite veining
1720	1725					10% anhydrite 90% limestone
1725	1730					100% limestone, white rose or red brown fossils
1730	1740					Limestone, argillaceous, red brown, soft
1740	1745	1 - F - F		2		Limestone, white rose, red brown, compact, occasionally si 10% anhydrite
1745	1750				S.	Limestone as above fossils
1750	1760					100% limestone, white rose or red brown, micrite, compact slightly argillaceous or silty, fossils traces anhydrite

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FORM 5121 -1

No. of Ft. Non-Porous GEOLOGICAL SAMPLE DESCRIPTION ÷ Showings O.G.W. مں No. of Porous Ditche From То POLAR BEAR 0-20 (\cdot) 1760 1770 as above, fossils vuggy dolomite, abundant 1770 1780 100% limestone as above traces of brick red clay gastropods, fossils 1780 1790 limestone, white, buff, micrite, locally porous vuggy dolomite (rare) traces of brick red clay, partly plastic 1790 1800 Limestone, white, buff, micrite, locally slightly porous (partly plastic) fossils traces of limestone, rose or red brown aggregates (rare) traces of brick red clay 1800 1810 Limestone, dominantly white, buff Limestone, rose, yellow or red brown aggregates (rare) traces of red clay (partly plastic 10%) crinoids ٩) 1810 1815 as above (limestone, dominantly white plus limestone, color varicolored) fossils 1815 1820 as above 80% Limestone dominantly white limestone color-different traces of brick red clay (20%) partly plastic Change bit 1820 1830 80% limestone, white, buff as above fossils - crinoids abundant concretions of brick red clay (20%) 1830 1840 80% limestone, white - rose, micrite, compact(partly plastic) Limestone, white-rose as above 1840 1845 traces brick red clay fossils 1845 1850 as above 1850 1855 limestone, white-rose, micritic, bioclastic, hard, tight bioclastic - abundant fossils concretion = (claystone) traces porosity, silty, calcareous, a soft traces of brick red clay

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SAMPLES NOT LAGGED

SAMPLES LAGGED AT FY. PER MIN.

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,		Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings 0.G.W.	GEOLOGICAL SAMPLE DESCRIPTION	Sheet 105
From	То	8ā	ŽÂ	22	Ϋ́ο	POLAR BEAR 0-20	<u>CONFIDENTIA</u>
1855	1860	1.				as above	
1860	1870					80% limestone as above 20% concretions, brick red clay and gy	psum
1870	1875					as above	
1875	1880		41			70% limestone 30% concretions and claystone – brick calcareous, soft (gypsum)	red, slightly silty,
1880	1890					70% limestone 30% concretions, claystone	
1890	1895					as above	
1895	1900		· *			80% limestone, rose 20% concretions, claystone (brick, red)	
1900	1910				• 17	as above	
1910 (*	1915	G				as above traces anhydrite fossils	
1915	1920					as above	
1920	1925					as above	0
1925	1930			-		80% limestone 20% claystone, slightly silty. calcare bioclastic, micritic, white-rose, hard	
1930	1960					as above	
1960	1970					70% limestone	
						20% claystone 10% grey yellow, siliceous; limestone yellow, argillaceous content	friable, micritic
1970	1980					40% limestone, rose 40% siliceous limestone 20% claystone	
1980	1990					50% partly plastic, red brown, slightl 10% limestone as above 40% limestone, siliceous	y calcareous, silty
1990	2320					Claystone, brown red, occasionally mau slightly calcareous, very silty, plast	
2320	2330				3 2	40% claystone as above 60% dolomite, red brown, occasionally grey, brown, micritic, medium hard, ti dolomite cryptoxln, cream	ght; traces of

SAMPLES NOT LAGGED SAMPLES LAGGED AT FT. PER MIN. (Delete as Appropriate)

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•	From	Το	Core C Ditch D		No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION	Sheet No6 CONFIDENTIAL
-	2330	2335					40% Claystone	
	2350	2000					60% dolomite	$(\mathbf{x}) = [\mathbf{D}^{(1)}]^{(\mathbf{x})}$
	2335	2340					20% claystone 80% dolomite	
	2340	2350		- 8°			40% claystone 60% dolomite	
	2350	2360					70% claystone 30% dolomite	
	2360	2370					60% claystone 40% dolomite	
	2370	2375					20% claystone 10% dolomite (red brown, cream, buff) 70% anhydrite, white, light grey	
	2375	2380					40% claystone 10% dolomite 50% anhydrite	C .
	2380	2390					30% claystone 30% dolomite 40% anhydrite	С. С. О 36,
	2390	2400					50% claystone 10% dolomite SALT FRC 40% anhydrite	M 2380; - 2465.
	2400	2410					40% claystone 20% dolomite 40% anhydrite	
	2410	2420					as above	
	2420	2430					30% claystone 30% dolomite 40% anhydrite	ũ. V
	2430	2440	Ů				30% claystone 30% dolomite 30% anhydrite 10% traces limestone, white, cream,	fiable
	2440	2450 ·					30% claystone 30% dolomite traces shale, green 40% anhydrite	-grey, soft, no. cal.
Í	2450	2460					20% claystone 10% shale 40% dolomite, predominantly buff, be 30% anhydrite crinoids, coral	ige

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WELL HISTORY

GEOLOGICAL PART

POLAR BEAR C-11

fidential section

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- 1. PROGNOSI'S AND PROGRAM See the
- 2. DRILLING TICKET SAMPLE DESCRIPTION

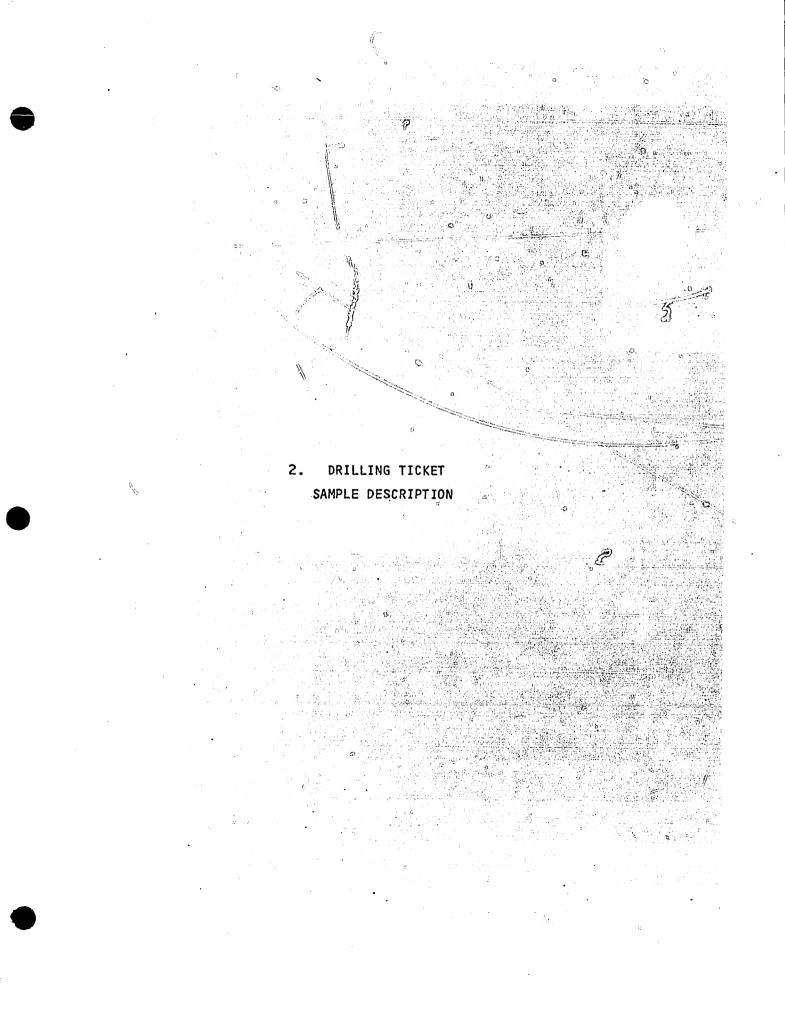
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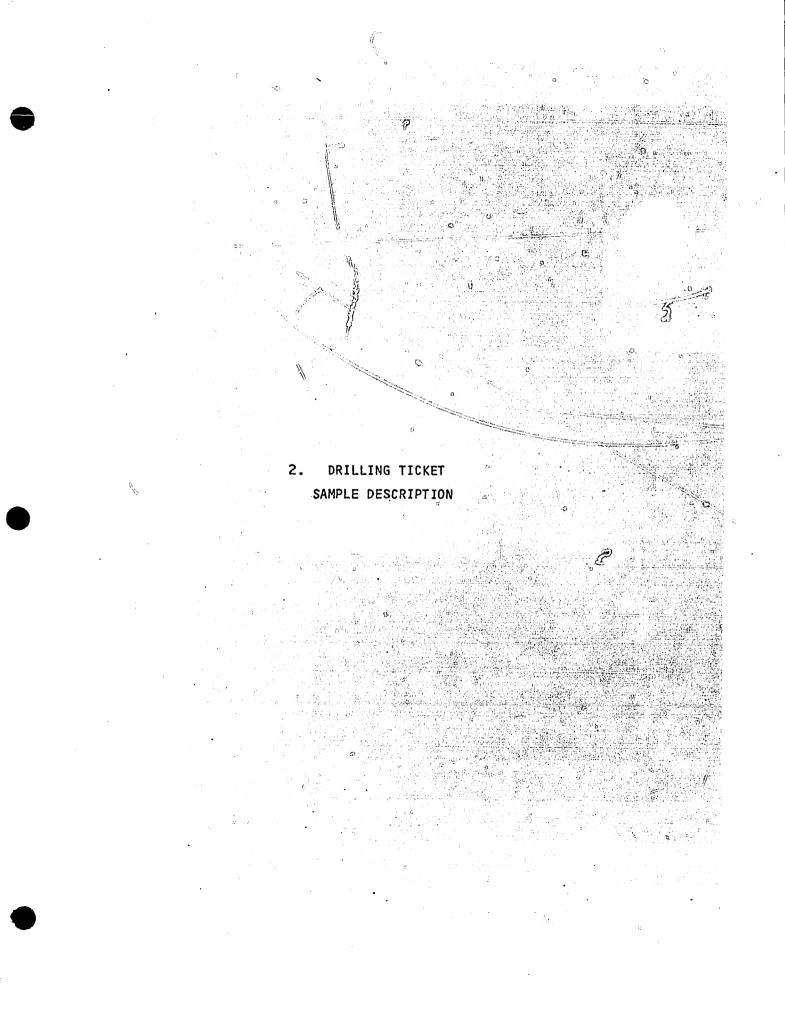
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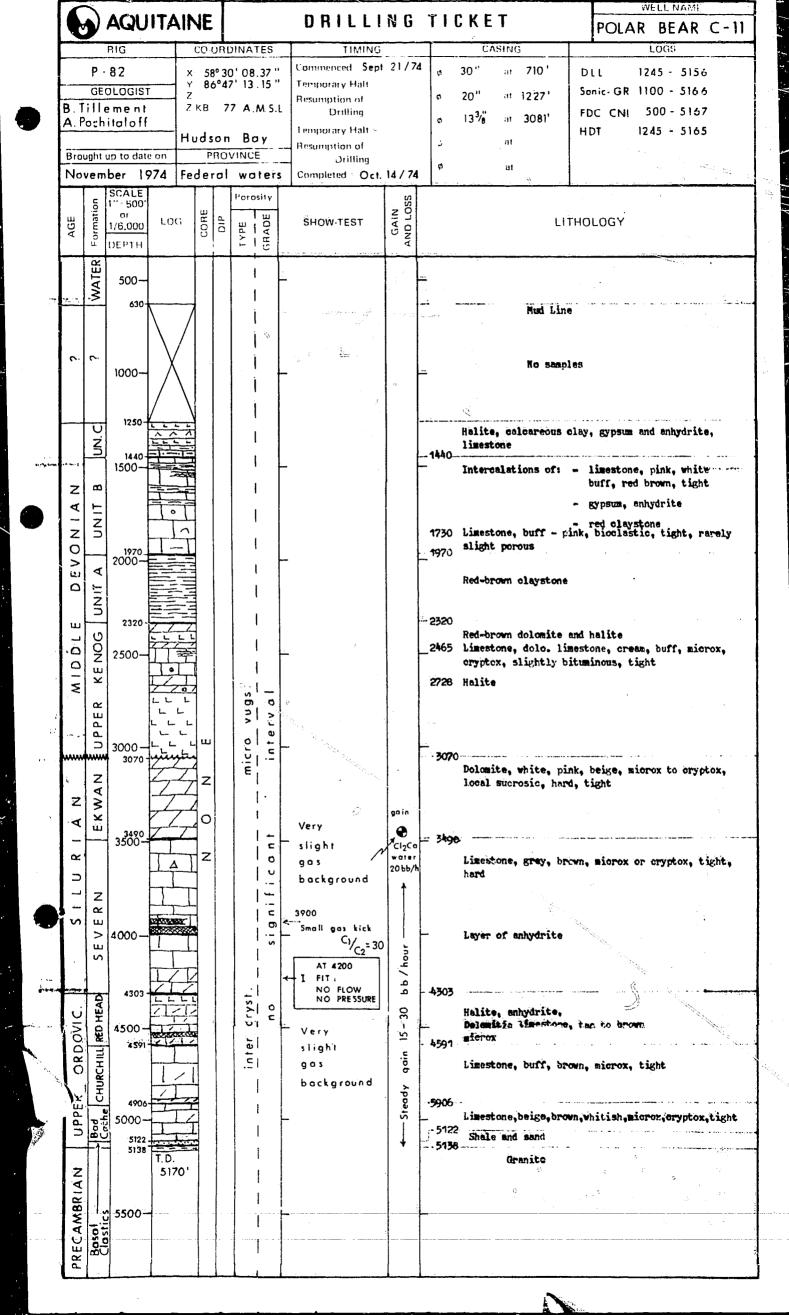
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- logging record
- log evaluation
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 - composite wellsite log (Ex-logging)
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 - FDC/CNL GR
 - formation tester (FIT)

- porosity analysis - Coriband







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From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Shewings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION Sheet No
1250	1260					70% Brick red brown, silty to sandy, plastic, slightly calcare clay traces of gypsiferous silica (chert) 30% cement
1260	1270					60% red brown clay, traces of gypsum - chert 40% cement
1270	1280		6 - 			50% clay as above, brick red brown orange, locally yellow 50% cement
1280	1295					80% clay, brick red brown; gypsiferous chert 20% cement
1295	1310					85% clay as above; traces gypsum 15% cement
1310	1325					85% clay, brick red traces of gypsum 15% cement
1325	1340					85% clay as above (locally yellow) 15% cement, concretion chert (rare)
1340	1355			-		100% clay as above gypsum (trace) concretion chert (rare)
1355	1370					80% clay, sandy or silty, brick red 20% gypsum or anhydrite and chert
1370	1385	, , ,				80% clay, calcareous or micrite, argillaceous, red brown sandy or silty, hard, occasionally soft 20% gypsum
1385	1400	с.	A. A. A. A. A. A. A. A. A. A. A. A. A. A			70% micrite, argillaceous, red brown, silty, hard 30% gypsum or anhydrite
1400	1410	ų.				90% micrite, argillaceous as above 10% gypsum
1410	1420		-			90% micrite, argillaceous as above 10% fibrous gypsum
1420	1430		а. С			90% micrite, argillaceous as above 10% gypsum
1430	1440			ι.		100% micrite, argillaceous as above gypsum (traces)
1440	1450		•			50% limestone, white, buff, micrite, hard, slightly porous 50% micrite, argillaceous as above traces gypsum
1450	1460					80% limestone, white, buff as above 20% micrite, argillaceous, red

SAMPLES NOT LAGGED

SAMPLES LAGGED AT FT. PER MIN.

FORM 5121 -1

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AQUITAINE COMPANY OF CANADA LTD.

From	То	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings 0.G.W.	GEOLOGICAL SAMPLE DESCRIPTION Sheet No. 2 CONFIDENTIAL POLAR BEAR 0-20
1460	1470					90% limestone (4 types) 10% micrite, argillaceous, red
						 Limestone: white, buff, micrite, hard, slightly porous Limestone: rose, purple, argillaceous, hard, silty Limestone: yellow (traces) Limestone: very argillaceous, red brown, silty or sandy, slightly porous
1470	1480	6			54. 1	20% anhydrite (white) microcrystalline 80% limestone as above (4 types)
1480	1490 ^ď		•			Limestone, white, buff, predominantly micrite
1490	1500			- 1	0	Limestone as above, predominantly white
1500	1510		10 10 - 10 10 - 10 10 10 10 10 10 10 10 10 10 10 10 10 1	an an an an an an an an an an an an an a	2	80% predominantly limestone, argillaceous, rose purple, hard, silty, white 20% gypsum or anhydrite
1510	1520					Limestone as above, predominantly rose, purple
1520	1530					80% limestone, argillaceous, dominantly purple 20% anhydrite
1530	1540					as above
1540	1550				1/ -	90% limestone, dominantly white, buff, (micrite) compact; abundant purple limestone 10% gypsum
1550	1560					90% limestone, white and purple 10% gypsum
1560	1570	-				Limestone as above traces of gypsum
1570	1580		-			90% limestone, argillaceous, purple, locally breccia (dominan 10% clay, brick red, silty
1580	1590		1 H	, , ,		Limestone, white, dominantly purple 10% clay, brick red (sandy or silty) traces anhydrite
1590	1600					Dominantly limestone as above traces anhydrite
1600	1610					70% limestone 20% anhydrite 10% brick red clay
1610	1620					Limestone white, dominantly purple 30% anhydrite
1620	1630					as above, white often purple 20% anhydrite – gypsum

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From	То	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION Sheet No3
1630	1640					Limestone, dominantly purple salt casts
1640	1650 ව		. t			40% anhydrite 60% limestone, white or purple, dominantly argillaceous concretion brick red, porous (salt?)
1650	1660					80% limestone, as above, white or purple, argillaceous 20% anhydrite
1660	1670 °			Ň		Limestone, white, buff, dominantly dolomitic traces of brick red clay 20% anhydrite
1670	1680		; 6	ν *		10% anhydrite, as above abundant aggregates (porous)
1680	1690		1			as above – brick red clay (traces) 10% anhydrite
1690	1700					50% white anhydrite limestone, white, cream, red brown plus dolomitic; limesto m. brown, micritic, tight
1700	1705			•	11 14	50% anhydrite 50% limestone as above
1705	1710					20% anhydrite 80% limestone, white-rose or red brown, dolomitic, micrite compact
1710	1715	В.,		* u .		10% anhydrite 90% limestone as above, white and red brown
1715	1720			1.1		20% anhydrite 80% limestone, dominantly red brown, occasionally calcite veining
1720	1725					10% anhydrite 90% limestone
1725	1730					100% limestone, white rose or red brown fossils
1730	1740					Limestone, argillaceous, red brown, soft
1740	1745	1 × 1		2		Limestone, white rose, red brown, compact, occasionally si 10% anhydrite
1745	1750				S.	Limestone as above fossils
1750	1760					100% limestone, white rose or red brown, micrite, compact slightly argillaceous or silty, fossils traces anhydrite

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FORM 5121 -1

No. of Ft. Non-Porous GEOLOGICAL SAMPLE DESCRIPTION ÷ Showings O.G.W. مں No. of Porous Ditche From То POLAR BEAR 0-20 (\cdot) 1760 1770 as above, fossils vuggy dolomite, abundant 1770 1780 100% limestone as above traces of brick red clay gastropods, fossils 1780 1790 limestone, white, buff, micrite, locally porous vuggy dolomite (rare) traces of brick red clay, partly plastic 1790 1800 Limestone, white, buff, micrite, locally slightly porous (partly plastic) fossils traces of limestone, rose or red brown aggregates (rare) traces of brick red clay 1800 1810 Limestone, dominantly white, buff Limestone, rose, yellow or red brown aggregates (rare) traces of red clay (partly plastic 10%) crinoids ٩) 1810 1815 as above (limestone, dominantly white plus limestone, color varicolored) fossils 1815 1820 as above 80% Limestone dominantly white limestone color-different traces of brick red clay (20%) partly plastic Change bit 1820 1830 80% limestone, white, buff as above fossils - crinoids abundant concretions of brick red clay (20%) 1830 1840 80% limestone, white - rose, micrite, compact(partly plastic) Limestone, white-rose as above 1840 1845 traces brick red clay fossils 1845 1850 as above 1850 1855 limestone, white-rose, micritic, bioclastic, hard, tight bioclastic - abundant fossils concretion = (claystone) traces porosity, silty, calcareous, a soft traces of brick red clay

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SAMPLES LAGGED AT FY. PER MIN.

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		Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings 0.G.W.	GEOLOGICAL SAMPLE DESCRIPTION	Sheet No5
From	То	0ā	22	žž	Ϋ́ο	POLAR BEAR 0-20	CONFIDENTIAL
1855	1860	і.				as above	
1860	1870					80% limestone as above 20% concretions, brick red clay and gy	psum
1870	1875					as above	
1875	1880					70% limestone 30% concretions and claystone – brick calcareous, soft (gypsum)	red, slightly silty,
1880	1890					70% limestone 30% concretions, claystone	
1890	1895					as above	
1895	1900		· *			80% limestone, rose 20% concretions, claystone (brick, red)	
1900	1910				• 17	as above	
1910 (*	1915	G.				as above traces anhydrite fossils	
1915	1920	с,				as above	
1920	1925					as above	0
1925	1930			-		80% limestone 20% claystone, slightly silty. calcare bioclastic, micritic, white-rose, hard	
1930	1960					as above	
1960	1970					70% limestone	
			- 			20% claystone 10% grey yellow, siliceous; limestone yellow, argillaceous content	friable, micritic
1970	1980					40% limestone, rose 40% siliceous limestone 20% claystone	
1980	1990					50% partly plastic, red brown, slightl 10% limestone as above 40% limestone, siliceous	y calcareous, silty
1990	2320					Claystone, brown red, occasionally mau slightly calcareous, very silty, plast	
2320	2330				9 5-775	40% claystone as above 60% dolomite, red brown, occasionally grey, brown, micritic, medium hard, ți dolomite cryptoxln, cream	ght; traces of

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•	From	Το	Core C Ditch D		No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION	Sheet No6 CONFIDENTIAL
-	2330	2335					40% Claystone	
	2350	2000					60% dolomite	$(\mathbf{x}) = [\mathbf{D}^{(1)}]^{(\mathbf{x})}$
	2335	2340					20% claystone 80% dolomite	
	2340	2350		- 8°			40% claystone 60% dolomite	
	2350	2360					70% claystone 30% dolomite	
	2360	2370					60% claystone 40% dolomite	
	2370	2375					20% claystone 10% dolomite (red brown, cream, buff) 70% anhydrite, white, light grey	
	2375	2380					40% claystone 10% dolomite 50% anhydrite	C .
	2380	2390					30% claystone 30% dolomite 40% anhydrite	С. С. О 36,
	2390	2400					50% claystone 10% dolomite SALT FRC 40% anhydrite	M 2380; - 2465.
	2400	2410					40% claystone 20% dolomite 40% anhydrite	
	2410	2420					as above	
	2420	2430					30% claystone 30% dolomite 40% anhydrite	ũ. V
	2430	2440	Ů				30% claystone 30% dolomite 30% anhydrite 10% traces limestone, white, cream,	fiable
	2440	2450 [.]					30% claystone 30% dolomite traces shale, green 40% anhydrite	-grey, soft, no. cal.
Í	2450	2460					20% claystone 10% shale 40% dolomite, predominantly buff, be 30% anhydrite crinoids, coral	ige

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SAMPLES NOT LAGGED

SAMPLES LAGGED AT FT. PER MIN.

AQUITAINE

From	То	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION POLAR BEAR 0-20	Sheet No CONFIDENTIAL
2460	2470					10% claystone 10% shale 20% dolomite, buff, light, brown, sco translucid, hard, voids, cryptoxln 60% anhydrite	casionally grey/white,
2470	2475 (3		r)			10% claystone and shale 20% limestone, buff, very hard, block 20% dolomite 50% anhydrite	šy, cryptoxln, tight
2475	2480	ć	8	с Эл г		<pre>10% claystone 10% shale 20% dolomite 30% anhydrite 30% limestone, buff, cryptoxln</pre>	о 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2480	2485			2		20% dolomite 10% claystone 20% anhydrite 50% limestone, cream, light brown, mi plus limestone as above, very hard, w	
2485	2490			9		10% claystone 10% dolomite 10% anhydrite 70% limestone (voids dominant)	
2490	2495					traces claystone 10% dolomite 10% anhydrite 80% limestone (voids dominant)	D
2495	2500					10% dolomite anhydrite (traces) 90% limestone, oolitic, buff, cream,	micritic, tight, med. H
2500	2505		۰ .			10% claystone 20% dolomite, white, grey, microxln, 70% limestone: (3 types)	hard
2505	2510					20% claystone 20% dolomite, white grey 60% limestone, cryptoxln, oolitic	0
2510	2515		· ·			20% claystone 20% dolomite 60% limestone, dominantly cryptoxln	en en en en en en en en en en en en en e
2515	2520					20% claystone 20% dolomite 60% limestone (3 types)	• •

SAMPLES NOT LAGGED

SAMPLES LAGGED AT FT. PER MIN.

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	From	То	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Shewings 0.G.W.	GEOLOGICAL SAMPLE DESCRIPTION Sheet No
25	20	2525					20% claystone 20% dolomite 60% limestone (voids dominant)
25	25	2530					20% claystone 10% dolomite 70% limestone (dominantly oolitic)
25	30	2540			а 1997 г.		10% claystone 10% dolomite 80% limestone (3 types) becoming dolomitic
25	40	2550	0				10% claystone dolomite traces 90% limestone (3 types) as above
25	50	2560				đ	10% claystone traces dolomite 90% limestone (3 types) corals
25	60	2570					10% claystone traces dolomite 90% limestone (dominantly cryptoxln, tight) corals
25	70	2580					10% claystone 10% dolomite 80% limestone (cryptoxln dominant)
25	80	2590			• •		100% limestone, porous traces claystone and dolomite traces of asphalt
25	90	2600		÷.			100% limestone, porous traces as above
26	00	2610					100% limestone, cream, light brown, microxln – cryptoxln voi buff, tight, hard, porous)
26	10	2620			5. B		100% limestone as above, light brown - dark brown, microxln cryptoxln voids, very hard
		;	e.	•	1. 1		Change bit Q
26	20	2630					Dolomitic limestone, microxln, medium brown, tight, locally voids, very hard.
26	30	2640					as above
26	640	2650					Dolomitic limestone, med. brown, microxln, tight, locally porcus, very hard.
26	50	2655					as above
26	55	2660					dolomitic limestone, med. brown, microxln, tight 10% limestone, dark brown, bituminous, microxln, soft

SAMPLES LAGGED AT FY. PER MIN.

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From	То	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings 0.G.W.	GEOLOGICAL SAMPLE DESCRIPTION Sheet No CONFIDENTIAL POLAR BEAR 0-20
2660	2665					as above - traces por.
2665	2670					as above
2670	2675					Dol. limestone, light - medium brown, microxln, tight and limestone, dark brown, bituminous as above
2675	2680					limestone, light-med. brown, microxln, tight - locally porous traces limestone, dark brown, bituminous, soft corals
2680	2685					as above – trace bituminous limestone
2685	2690		1			as above
2690	2695					as above – no bituminous limestone
2695	2700					as above
2700	2705					as above
2705	2710					as above
2710	2715					90% limestone 10% shale cream, med. hard or soft, calcareous
2715	2720					50% limestone, light — med. brown, microxln, tight, locally porous, hard (20% + 30% = 50%) claystone, red brown, very soft, calcareo occasionally silty, plastic
2720	2725		6.	•		30% limestone 10% dolomite 10% anhydrite 50% claystone
2725	2730					as above
2730	2740	4		•		80% claystone 20% limestone
2740	2750		•			80% claystone 20% limestone
2750	2760					as above
2760	2770			-		60% claystone 40% limestone, brown, cream, med. brown, grey, hard, micrit argillaceous, tight
2770	2780					40% claystone 60% limestone
2780	2790					Fishing SALT ON THE BIT 50% claystone 50% limestone

SAMPLES NOT LAGGED

SAMPLES LAGGED AT ... FT. PER MIN.

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From	То	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION Sheet No10 CONFIDENTIA POLAR BEAR 0-20
2790	2800					70% claystone 30% limestone
2800	2810					SALT
						D 10 10 10 10 10 10 10 10 10 10 10
						57
						۷ ۲
	1	-			-	
	2	1.4.9			0	
		90 88 10		- 6 		o construction of the second sec
				U 10		
	i. V		2	0. 9		
					2.	0
	12				a.	° č

FORM 5121 -1

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From	То	Core C Ditch D	No. of Ft. Porous	No. of F1. Non-Porous	Showings 0.G.W.	GEOLOGICAL SAMPLE DESCRIPTION Sheet No. 11
2810	2820					Salt – white, clear, xln traces of claystone, red brown
2820	2830					as above "
2830	2840					as above
2840	2850					as above
2850	2860					as above?
2860	2870					as above
2870	2880					as above
2880	2890			72.54		as above
2890	2900					as above
2900	2910					as above
2910	2920					as above
2920	2930					as above
2930	2940					90% salt 10% claystone
2940	2950					70% salt 30% claystone
2950	2960			ų		60% salt 40% claystone
2960	2970					60% salt 40% claystone
2970	2980					60% sält 40% claystone
2980	2990					60% salt 40% claystone
2990	3000					ó0% salt 40% claystone Φ
3000	3010					70% salt 30% claystone

FORM 5121 -1

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From	То	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings 0.G.W.	GEOLOGICAL SAMPLE DESCRIPTION Sheet No. 12
3010	3020			4		60% salt 30% claystone 10% dolomitic shale, red, light brown, hard, blocky
3020	3030					as above
3030	3040					40% salt 40% claystone 10% shale 10% limestone light grey, hard, micritic, argillaceous, bituminous traces
3040	3050					as above
3050	3060					as above
3060	3070					as above
3070	3080				2	<pre>10% salt 30% claystone 10% shale 10% limestone 40% dolomite, white, pure, hard, massive, brittle, cryptox tight, locally porous</pre>
3080	3090 •		9	0 		traces of salt 30% claystone 10% shale 10% limestone 50% dolomite white as above and dolomite buff, cream, hard, massive, microxln, occas. quite porous
3090	3095	Q.	in the second se			10% shale 30% claystone 60% dolomite, porous
3095	3100		÷		¢	20% claystone 80% dolomite. porous
3100	3105		12			as above
3105	3110					13 5/8" casing 10% cement 90% dolomite as above

SAMPLES NOT LAGGED

SAMPLES LAGGED AT FT. PER MIN.

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۲	From	Το	Care C Ditch D	No. of Ft. Parous	No. of Ft. Non-Parous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION POLAR BEAR 0-20	Sheet No13 COMFIDENTIAL
-	3110	3115					20% cement 80% dolomite as above	
	3115	3120		•			90% cement 10% dolomite as above traces claystone	
· · · ·	3120	3125		14 17			90% cement 10% dolomite as above traces claystone	2000 (20) (20) (20) (20) (20) (20) (20)
	3125	3130	a.		, .		80% cement 20% dolomite as above traces claystone	(i) (i) (i) (i) (i) (i) (i) (i) (i) (i)
	3130	3135		ι. Γ			50% cement 50% dolomite as above traces claystone	
A	3135	3140 -		đ.,			50% cement 50% dolomite as above	
	3140	3145		D	0	e.	40% cement Q &	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
	3145	3150			1 19 19 ¹ -		40% cement 60% dolomite as above	
	3150	3155		5 	ф.		10% cement 90% dolomite as above	
	3155	3160					10% cement 90% dolomite, white, microxln, pûre porous	, hard, tight, locally
	3160	3165			· · · /		traces of cement 100% dolomite as above	۰. ۵
	3165	3170					as above	
	3170	3175		2 ₀		л. –	as above	
	3175	3180					as above	9 ⁽²)
	3180	3185				13 13	10% cement 90% dolomite, locally porous (rore)	and and a second second second second second second second second second second second second second second se Second second second second second second second second second second second second second second second second Second second second second second second second second second second second second second second second second

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From	Τo	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porou	Shewings 0.G.W.	GEOLOCICAL SAMPLE DESCRIPTION	Sheet No. 14 CONFIDENTIAL
3185	3190					10% cement 90% dolomite as above	
3190	3195					10% cement 90% dolomite, white, microxln, pur porous	e, hard, tight, locally
3195	3200					traces cement 100% dolomite	
3200	3210			-		as above	
3210	3215		i .	 		as above	
3215	3220			i Vilai T		as above	
3220	3225					as above	
3225	3230					as above	
3230	3235					as above	
3235	3240					as above	C 🗘
3240	3245	1				as above	
3245	3250					as above	e de la companya de la companya de la companya de la companya de la companya de la companya de la companya de l La companya de la companya de la companya de la companya de la companya de la companya de la companya de la comp
3250	3255					as above	
3255	3260					as above	Q
3260	3265					as above	 Φ² March 1, and 1, a
3265	3270	ļ	}			as above	
3270	3275					as above	ە جە
3275	3280					Dolomite white, microxln, hard, ti	··
3280	3285					as above	19.
3285	3290					as above	× .
3290	3295					as above	
3295	3300		Ì			as above	• • • • • •

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From	То	Core C Ditch D	No. of Ft. Porous	No. of Ft. Nen-Perous	Shewings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION POLAR BEAR 0-20	Sheet No. 15
3300	3305					as above	
3305	3310					as above	<i>"</i>
3310	3315					as above	34 N
3315	3320					Dolomite, whitish, microx, hard, tight,	occas. porous
						NEW BIT-	· · · · · · · · · · · · · · · · · · ·
3320	3325					Dolomite, predominantly white, pink, he very hard, tight, locally slightly poro	ige, cryptoxln, pure, us
3325	3330					as above	and the second se
3330	3335					as above	। • • • • • • • • • • • • • • • • • • •
3335	3340					as above	
3340	3345					as above	
3345	3350				1	Coral recrystallized	0
3350	3355					as above	
3355	3360					as above	
3360	3365					as above	O with
3365	3370					as above	
3370	3375					traces of dolomite, pink	
3375	3380					85% dolomite, white, as above 15% dolomite, pink	્યું આ ગામ કે કે કે કે કે કે કે કે કે કે કે કે કે
3380	3385]			85% dolomite, white, as above 15% dolomite, pink	
3385	3390					20% dolomite, pink 80% dolomite, white, as above	2
3390	3395					traces of dolomite, pink Dolomite, white, as above	a
3395	3400					Dolomite, white, beige	9 1
3400	3405					as above	

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From	То	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMFLE DESCRIPTION Sheet No. 16
3405	3410					as above
3410	3415			İ		as above
3415	3420					as above
3420	3425		1			as above
3425	3430					as above
3430	3435					as above
3435	3440					as above
3440	3445					as above traces of dolomite, grey, siliceous, cryptoxln, very hard
3445	3450					as above presence of coral
3450	3455				6	Dolomite, white, beige, as above Dolomite, grey, siliceous, very hard, tight
3455	3460					as above
3.60	3465					as above
3465	3470					Dolomite, grey, siliceous, very hard, tight Dolomite, white and pink presence of corals
3470	3475					as above
3475	3480					as above
3480	3485					Dolomite, grey-beige, occas. white, very hard, massive, brittle, cryptoxln, tight, no porosity; locally vugular porosity
3485	3490					Dolomite, dominantly grey-beige Dolomite, pink-white as above
3490	3495					Dolomite, grey-beige
3495	3500				·	Dolomite, grey – glauconite
3500	3505					Dolomite, grey, beige, occas. white, very hard, massive brittle, cryptoxln, tight, locally vugular - glauconite

SAMPLES NOT LAGCED

SAMPLES LAGGED AT FT. PER MIN.

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Ð	From	То	Core C Ditch D	No, of Ft. Porous	No. of Ft. Non-Porous	Showings 0.G.W.	GEOLOGICAL SAMPLE DESCRIPTION
	3505	3510					Dolomite as above and limestone grey, brown, beige, occas. yellow/brown, cryptoxln, very hard, tight - glauconite
	3510	3515					40% dolomite as above 60% limestone as above Glauconite
	3515	3520					30% dolomite 70% limestone Glauconite
	3520	3525					30% dolomite 70% limestone Glauconite
	3525	3530					20% dolomite 80% limestone Glauconite
_	3530	3535					20% dolomite 80% limestone
	3535	3540					20% dolomite 80% limestone, light beige
	3540	3545					20% dolomite 80% limestone, light beige and brown/yellow, purple/brown
	3545	3550					100% limestone traces of dolomite
	3550	3555					90% limestone 10% dolomite
	3555	3560		ł			100% limestone
	3560	3565					100% limestone, beige, grey/brown, occas. yellow/rose red, tight, hard, brittle, cryptoxln, very hard, no porosity
	3565	3570					Limestone as above, showing conchoidal fractures
	3570	3575					as above
	3575	3580					90% limestone 10% dolomitic limestone, siliceous
			<u> </u>	 			

SAMPLES NOT LAGGED

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From	То	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings D.G.W.	GEOLOGICAL SAMPLE DESCRIPTION Sheet No18
3580	3585					80% limestone 20% dolomitic limestone, siliceous
3585	3590			- - .		70% limestone 30% dolomitic limestone, siliceous
3590	3595					Limestone, beige, white, creamy-white, occas. brown - tinted yellow, pink, very hard, microxln - cryptoxln, tight
3595	3600		i? JL			as above
3600	3605			q ³		as above
3605	3610			0		as above, dominantly creamy-white
3610	3615					as above, dominantly creamy-white
8615	3620					as above, dominantly creamy-white
3620	3625					as above, dominantly brown
8625	3630					as above, dominantly brown
630	3635					as above, dominantly brown
8635	3640					as above, dominantly brown
640	3645					as above, dominantly creamy-white
3645	3650		Ç			as above hut fossiliferous echinoderms, crustaceans (?) radiolaria, ostracods (?), etc
3650	3655					Limestone, creamy-white, microxln, very hard, tight
655	3660					as above
6660	3665					as above
5665	3670					as above
670	3675.					as above
675	3680		;			as above
5680	3685					as above
3685	3690					Limestone, creamy-white, microxln to cryptoxln, very hard, ti traces of limestone, bioclastic, argillaceous, fossiliferous (echinoderms, crustaceans)

SAMPLES NOT LAGGED

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AQUITAINE

From	То	Core C Ditch D	Na. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION
\$690	3695					as above
3695	3700					as above
3700	3705			<i>64</i> (Ĩ	as above
3705	3710					same lithology presence of Brachiopods
3710	3715					as above and white chert, occas. brown
3715	3720					as above state of the second sec
3720	3725					as above
3725	3730					as above
3730	3735					as above
735	3740					Limestone, brown, cryptoxln, hard, tight, with traces of cher
3740	3745					Limestone, medium brown, cryptoxln, hard, tight, with traces chert
3745	3750					Limestone, medium brown, cryptoxln, hard, tight, rare chert
3750	3755	}[3	as above
3755	3760					Limestone, brown, cryptoxln, hard, tight, bioclastic (echino- derms)
3760	3765					Limestone, medium brown, cream, white, beige, cryptoxln, very hard bituminous traces (?) traces of grey chert; fossils
3765	3770	30				Limestone as above
3770	3775					Limestone as above description of the second s
3775	3785		ł			as above
3785	3800			<u> </u>		Drilling with seawater (no samples)

SAMPLES LAGGED AT FT. PER MIN.

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From	٥٢	Core C Ditch D	No. of Ft. Porous	Non-Porous	5 Towings 0.5.W.	IGEOLOGICAL SAMPLE DESCRIPTION Sheet No20 POLAR BEAR 0-20 CONFIDENTIAL
3800	3805					50% dolomite, light grey, calcareous, moderately hard, cryptoxln – microxln 50% dolomite, beige- cream, calcareous, mod. hard, cryptoxln – microxln
3805	3810					60% dolomite, grey 40% dolomite, beige
3810	3815					90% dolomite, calcareous, light grey, dark brown, white cryptoxln-microxln, med. hard, slightly argillaceous; no poros 10% limestone
3815	3820	//				90% dolomite 10% limestone
820	3825					60% dolomite 40% limestone
3825	3830					20% dolomite as above with brachiopods 80% limestone, med. brown, microxln-cryptoxln, med. hard to ha slightly argillaceous; no porosity
\$830	3835					90% limestone 10% dolomite, calcareous, dark brown, cryptoxln-microxln, med. hard to hard
8835	3840					as above
5840	3845					80% dolomite, light grey as above 20% limestone
3845	3850					60% dolomite 40% limestone
3850	3855					20% dolomite 80% limestone
3855	3860					Limestone, beige, cream, med. brown, microxln- cryptoxln, hard
8860	3870					as above
3870	3875					90% calcareous dolomite to dolomitic limestone 🥳
3875	3880					20% dolomite 80% limestone
3880	3885					Limestone, light – med. brown, beige, cream, microxln, hard tight

SAMPLES NOT LAGGED

SAMPLES LAGGED AT

FT. PER MIN.

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From	То	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Paraus	Shewings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION Sheet No. 21
3885	3890					as above
890	3895					as above
895	3900					as above
\$900	3905					as above
\$905	3910					as above
3910	3915					70% limestone, med. brown, microxln, hard, tight 30% anhydrite, white
3915	3920			12		20% anhydrite 30% dolomitic limestone, grey, buff, microxln, hard, tight 50% dolomite
3920	3925					20% anhydrite 20% dolomitic limestone 60% dolomite
3925	3930					10% anhydrite 30% dolomitic limestone 60% dolomite
3930	3935		-			20% anhydrtie 40% limestone 40% dolomite
3935	3940					70% anhydrite 20% dolomite 10% limestone
3940 ((3945					60% anhydrite 40% limestone
3945	3950					70% limestone 30% anhydrite
3950	3960					30% dolomite, buff, cryptoxln, hard, tight 20% dolomite, pure white, macrocryst. or sucrosic slightly porous 50% anhydrite, bluish-grey
3960	3970					50% dolomite to dolomitic limestone, buff, cryptoxln - micro locally pelletoidal, tight, hard 20% dolomite, pure white as above 30% anhydrite

SAMPLES NOT LAGGED

SAMPLES LAGGED AT FT. PER MIN

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From	То	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings 0.G.W.	GEOLOGICAL SAMPLE DESCRIPTION	Sheet No. 22
				<u> </u>		POLAR BEAR 0-20	
3970	3980			}		as above	
3980	3990					Mainly: Dolomite, beige to buff, c hard, tight, slightly pyri limestone.	
						Minor: - dolomite, crystalline, p - white gypsum	ure white, slightly porcu
3990	4000			,		as above	
4000	4010	;				80% dolomitic limestone to limestone	
						microxln-cryptoxln, locally microbre 10% minor whitish, crystalline dolom 10% white sucrosic gypsum	
4010	4020					as above	
4020	4030	0				80% limestone to dolomitic limestone brown, cryptoxln, locally hard, tigh 20% dolomite; crystalline gypsum	
4030	4040					as above	
4040	4050					90% limestone, beige, light grey, wh tight	itish, med. hard to hard,
						10% gypsum and anhydrite	c
4050	4060			1		Limestone, mainly grey-brown to beig Traces of anhydrite	e, cryptoxln – microxln
4060	4065					90% limestone and dolomitic limeston 10% anhydrite	e as above
4065	4070					as above and white calcite and gypsum	and an an an an an an an an an an an an an
4070	4075		. 			as above but the limestone is local	y microbrecc. 🧷
4075	4080	-	5			50% limestone, brown, brittle, crypt 40% limestone to doiomitic limestone 10% anhydrite and gypsum	
4080	4085	-				as above	میں 1922ء کی جان
4085	4090					90% limestone, brown 10% limestone to dolomite, grey to h	eige
			Ŷ	ł	1		a - 15

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		o وبع	No. of Ft. Pcrous	No. of Ft. Non-Porous	Showings 0.G.W.	GEOLOGICAL SAMPLE DESCRIPTION Sheet No23
From	То	Ditce	Žď	22	ξQ	POLAR_BEAR_0-20 CONFIDENTIAL
4090	4095					90% limestone brown, as above 10% anhydrite and gypsum Traces of limestone to dolomitic limestone, grey to beige as above
4095	² 4100					Limestone, light to med. brown, cryptoxln to microxln, hard alternating with: Limestone, grey, creamy white, cryptoxln - microxln, mod. hard Traces of anhydrite and gypsum
4100	4105					80% limestone, brown 20% limestone, dark grey-brown, microxln, slightly dolomitic
4105	4110					as above
4110	4115					as above
4115	4120		a a		2	90% limestone, light to med. brown, creamy white, as above 10% limestone, dark grey to b rown, as above
4120	4125			12		as above
4125	4130					90% limestone as above, becoming dolomitic 10% limestone to dolomite, light grey, mod. hard, microxln Traces of anhydrite and gypsum
4130	4135		- 	2 43		as above
4135	4140.		÷3	11 11 - 11		90% limestone, light to med. brown, dolomitic, cryptoxln, very hard, no porosity 10% limestone, grey to creamy white, dolomitic, microxln to cryptoxln, mod. hard; no porosity Traces of anhydrite and gypsum
4140	4145					as above
4145	4150	0				Dolomitic limestone as above to dolomite Traces of anhydrite and gypsum
4150	4155					75% dolomitic limestone to dolomite, light brown to beige, predominantly pelletoidal, lesser amount (20%) of cryptoxln type as above, very hard 5% anhydrite
4155	4160					95% dolomitic limestone as above; slight porosity in pelleto type 5% anhydrite

SAMPLES NOT LAGGED

SAMPLES LAGGED AT FT. PER MIN.

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From	То	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION Sheet No. 24 CONFIDENTIAL POLAR BEAR 0-20
4160	4165					Dolomite to dolomitic limestone as above, increasing in cryptoxln type (50%) 5% anhydrite
4165	4170					80% dolomite, light brown, cryptoxln to crystall. (in that case, slightly porous) hard, pelletoidal or calcarenitic (20%)
4170	4175					as above
4175	4180		19 19			same dolomite, less detrital
4180	4185		of	it .10 red stor		Dolomite, cream to light brown, mainly cryptoxln, hard, tight
4185	4190					about 20% of white, crystal. dolomite, in addition to the light brown dolomite
4190	4195	-				70% dolomite, light brown 30% white dolomite
4195	4200	-				as above
4200	4205 *					Dolomite (80%) rarely dolomitic limestone, tan to light brown, cryptoxln to microxln, tight, hard 20% pure white, crystal. dolo. (very slow reaction with HCl)
4205	4210	d s	olom ilts	f re itic tone ngs?		as above ∬ · · · · · · · · · · · · · · · · · · ·
4210	4215					Dolomite as above, locally finely banded
4215	4220			Ð		85% dolomite, occas. limestone (dolomitic), tan to light brown, cryptoxin to microxln, loc. pellet, tight, hard 15% pure white, crystall. dolo.
4220	4225			7		70% dolomite as above 30% white dolomite
4225	4230.					70% dolomite, tan to light brown as above 20% dolomite, pure white 10% siltstone, red, dolomitic (cavings?)
4230	4235		V			as above
4235	4240					60% dolomite, tan, locally very calcareous 30% dolomite, white 10% siltstone, red, dolomitic (casts of salt dissolution)

SAMPLES NOT LAGGED

SAMPLES LAGGED AT FT. PER MIN.

FORM 5121-1

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From	То	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION	Sheet No. 25
4240	4245					as above	
4245	4250					as above	р у О
4250	4260					80% dolomite, light cream to buff 10% white dolomite 10% siltstone, red (cavings?) Traces of anhydrite	ດ 6, ເມື່ອງ ເມື່ອງ ເມືອງ ເມືອງ ເພື່ອງ เป็ะ เป็ะ เป เป เป เป เป เป เป เป เป เป เป เป เป
4260	4270				4	as above	4 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 19 1997 -
4270	4275		4			60% dolomite, light grey, buff, light microxln, tight, hard 20% limestone, light grey, microxln, 10% dolomite, white 10% siltstone, red	
4275	4280					60% dolomite, light grey to white, mi 40% limestone, light grey to cream, m Traces of red siltstone	
4280	4290					30% dolomite 70% limestone Traces of red siltstone	a a a a a a a a a a a a a a a a a a a
4290	4300		0			20% dolomite, more light grey	
4300	4310					50% limestone, mainly beige to buff, tight 50% dolomite, light grey, cryptoxln,	
431 <u>0</u>	4320					30% limestone, beige 60% dolomite, light grey, silty to ar med. hard, tight 10% siltstone, dolomitic, red (caving	
4320	4330					30% limestone, beige 40% dolomite, light grey 20% white, crystall. calcit e and dolo 10% silt s tone, red gypsum; soft pasty blebs of K compour	
4330	4340			-		30% limestone 30% dolomite, light grey, more silty tight 20% calcite and dolomite, white	and argillaceous, sof

SAMPLES NOT LAGGED

SAMPLES LAGGED AT FT. PER MIN.

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9	From	То	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION Sheet No. 26
:							POLAR BEAR 0-20
	4330	4340 (cor	t)			.	10% siltstone, red (cavings) Blebs of K compound ? (whitish, soft, pasty) 10%
	4340	4350					poor sample - not representative (very little return)
	4350	4360					<u>New element</u> - 40% dolomite, irregularly colored, dark brown to black to tan, microxln, hard, tight (possible bitum.) 40% alternating beige, grey, whitish dolomite and limestone as above 20% cavings
	4360	4370					as above
							-Change of Bit
·	4370	4375					10% dolomite, dark brown, bituminous 60% dolomite, cream to buff, microxln to cryptoxln, hard tight, brittle 30% dolomitic shale, calcareous, blue-grey, with tiny black dots, fine grained, soft
	4375	4380					10% dolomite, dark brown, bituminous (test with CHCl ₃) 80% dolomite, cream 10% dolomitic shale, calcareous, blue-grey
	4380	4385					100% dolomite, cream, brittle, microxln, hard, tight
	4385	4390					100% as above, locally slightly calcareous
	4390	4395					as above
	4395	4400					Very good cuttings 100% dolomite as above, more calcareous no cavings at all
	4400	4405					as above
	4405	4410			-ī.		100% dolomite, cream, microxln, brittle, locally calcareous, hard, tight Cutting - exceptionally good
	4410	4415					same lithology. Actually, limestone in the process of dolomitisation
	4415	4420					as_above
	4420	4425					as above

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From	То	Core C Ditch D	No. of Fr. Porous	No. of Ft. Non-Perous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION Sheet No. 27
4425	4430					50% dolomite, calcareous as above 50% shale, silty, dolomitic (calcimetry 42,48,50) with very fine grains of black mineral, pasty, soft, blue-grey
4430	4435			c v		50% dolomite, calcareous/dolomite/limestone, cream, microxlr hard, tight 40% shale, silty, dolomitic 10% soft gypsum, translucent
4435	4440			<.}.		80% dolomite, calcareous/dolomite/limestone, cream (same layers) as above 20% silty dolomitic shale, blue-grey, harder than above gypsum
4440	4450		• 2, • X			80% dolomitic limestone, cream 10% silty shalv dolomite, blue-grey (with fine black dots) 10% gypsum, translucent
4450	4455					80% dolomitic limestone as above 10% limestone, same characteristics as above 10% gypsum and anhydrite
4455	4460					Mainly: dolomite to dolomitic limestone, beige to light brown, microxln, apparently not porous
4460	4465					same lithology, hut more calcareous
4465	4470		ت ق د د		- Ĵ	50% limestone, light - med. brown, microxln, hard, no visible porosity 40% limestone, white to creamy white, microxln, mod. hard, no porosity 10% dolomite, light to med. brown, pure white, hard, microxl no porosity, slightly calcitic
4470	4475		·	antina Tina Tina Tina	4	trace dolomite as above 60% limestone as above 40% dolomite, calcareous, med. grey, microxln, argillaceous no porosity
4475	4480					80% dolomite, grey as above 10% dolomite, brown as above 10% limestone, brown, creamy white as above
4480	4485			2		30% dolomite, grey 20% dolomite, brown 40% limestone, brown, creamy white 10% anhydrite

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COMPANY OF CANADA LTD.

			مں	ti -	F Ft.	ē.	GEOLOGICAL SAMPLE DESCRIPTION Sheet No. 28
T	From	То	Core Ditch	No. of Ft. Porous	No. of Ft. Non-Parous	Showings O.G.W.	POLAR BEAR 0-20
	4485	4490					70% limestone as above 10% dolomite, grey 20% dolomite, brown becoming calcitic
	4490	4495					as above
* 	4495	4500					80% limestone, light to med. brown, as above 20% dolomite, brown as above, becoming dolomitic limestone
	4500	4505					as above
	4505	4510					Limestone, light to med. brown, white - creamy white, buff-grey occas. dolomitic, microxln, hard.
	4510	4515					as above
	4515	4520					100% limestone, light - med. brown, buff grey, creamy white, occas. dolomitic, mod - very hard, no visible porosity
	4520	4530					50% dolomitic limestone as above 50% anhydrite and gypsum, white to light blue-grey
	4530	4540					15% dolomitic limestone, light brown as above 85% anhydrite and gypsum, whitish, <u>+</u> translucent
	4540	4545			Υ.		o 40% dolomitic limestone, beige 60% anhydrite and gypsum
	4545	4550			c		65% dolomite to dolomitic limestone 35% anhydrite and gypsum
	4550	4555					50% dolomitic limestone and limestone as above 40% anhydrite 10% dolomite, shaly and silty, blue-grey, med. hard, tight
2	4555	4560				. 19	60% dolomitic limestone to dolomite, beige to buff, to light brown, brittle, microxln, hard, tight 35% limestone, as above 5% anhydrite and dolomite
	4560	4565	ç				as above
	4565	4570					60% dolomite as above 40% limestone as above
	4570	4580		3			30% dolomite as above 70% limestone as above

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					. 5		Sheet No. 29
			مں	ti Jon	of Ft Porot	ŝ.	GEOLOGICAL SAMPLE DESCRIPTION
	From	То	Core	No. of Porous	No. of Ft. Non-Porous	Showings O.G.W.	polar bear 0-20 CONFIDENTIAL
_	4580	4590					20% dolomite, cream to tan, microxln, hard, tight 30% limestone, cream to tan, microxln, hard, tight 50% limestone, light blue-grey, slightly dolomitic, argillaceous, med. hard
	4590	4595	. 9				20% limestone as above 10% dolomite as above 70% limestone, blue-grey, argillaceous
	4595	4600	0	_			20% dolomite as above 20% limestone, beige as above 60% limestone, blue-grey, argillaceous
	4600	4610					as above
	4610	4620				1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	20% dolomite, buff to light brown, argillaceous, microxln, traces of porosity 80% limestone, beige cream to light blue-grey, locally argil aceous, tight traces of anhydrite
	4620	4630					10% dolomite as above 90% limestone, only beige and light brown
	4630	4640					50% dolomite as above 50% limestone as above
	4640	4650					20% dolomite as above 80% limestone, beige to light brown to whitish
	4650	4655					as above with traces of dark blue-grey dolomite
	4655	4660					50% dolomite as above 50% limestone as above
	4660	4665		-			as above traces of gypsum
	4665	4670					20% dolomite as above 80% limestone as above traces anhydrite and gypsum
	4670	4675					40% dolomite as above 60% limestone
	4675	4680					80% limestone as above 20% dolomite as above
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F	_	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Parous	Show ings O.G. W.	GEOLOGICAL SAMPLE DESCRIPTION Sheet No. 30	T
From	То		Zœ	zz	120	POLAR BEAR 0-20 UUWILLIN	
4680	4685				1,	90% limestone 10% dolomite	
4685	4690					as above	
4690	4700					as above	
4700	4705					90% limestone, light to med. brown, white-cream, micro occas. cryst., hard, (white-cream softer than brown) no visible porosity 10% dolomite as above	oxl
4705	4710					100% limestone as above, occ. slightly dolomitic trace of dolomite as above	
4710	4715					as above	Т
4715	4720		,			as above	
4720	4725					as above	
4725	4730					limestone as above, predominantly microxln	
4730	4735		•			as above	
4735	4740					limestone, locally slightly dolomitic, brittle, micro med. hard to hard, tight, cream to light brown	xln
4740	4745		-		- -	as above	
4745	4750					limes one, locally slightly dolomitic, light grey to a	cre
4750	4760					as above	
4760	4770		•	સ	а.	80% limestone, tan to buff as above 20% limestone, whitish to light grey, soft	
4770	4775					60% limestone, hard, buff 40% limestone, soft, whitish, light grey	
4775	4780 。					50% limestone, hard, as above 50% limestone, soft as above	• .
4780	4785	II		J.		40% limestone, buff 60% limestone, soft, light grey Change of Bit	

SAMPLES LAGGED AT FT. PER MIN.

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From	о То	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porcus	Showings 0.G.W.	GEOLOGICAL SAMPLE DESCRIPTION	Sheet No31
4785	4795					40% limestone, buff, light brown, mich 50% limestone, whitish, light grey, m 10% limestone, dolomitic, blue-grey, b	icroxln, soft
4795	4800					60% limestone, buff, hard 40% limestone, soft, whitish	e De
4800	4805					50% limestone, tan, hard 50% limestone, whitish, soft	
4805	4810					as above 🧧 🧖	
4810	4820		0	n ar		60% limestone, tan, hard 40% limestone, soft, white-grey	
4820	4825					as above	
4825	4830					60% limestone, buff grey, hard, micro 40% limestone, white-grey, microxln,	
4830	4835					as above	
4835	4840					60% limestone, buff, grey, hard, pred 40% limestone, white-grey as above	ominantly crystalline
4840	4845				э - С	70% limestone, buff-grey as above 30% limestone, white-grey as above	
4845	4850		n			as above	
4850	4855					as above	
4855	4860					60% limestone, buff grey as above, be brown 40% limestone white-grey as above	coming very dark grey-
4860	4865		•			as above	
4865	4870		, , ,			30% limestone, white-grey, soft as ab 50% limestone, buff grey, microxln, h 20% limestone, dark grey brown, micro	ard, tight 🧠 👘
4870	4875					40% limestone, white-grey as above 50% limestone, buff-grey as above 10% limestone, dark grey brown as abo	Ve
4875	4880					40% limestone as above dolomite to dolomitic limestone, ligh xln - microxln, very hard, tight (50)	

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			Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION Sheet No32
	From	То	ប៉ីជី	žď	ŽŽ	άÓ	POLAR BEAR 0-20
-	4875	4880 (con	D -				dolomite – dolomitic limestone, light grey, microxln, very hard, tight (10%)
	4880	4885		•			30% limestone as above 40% dolomite, brown as above 30% dolomite, grey as above
	4885	4890					20% limestone as above, predominantly white-grey, soft type 50% dolomite, brown as above 30% dolomite, grey as above
	4890	4895	c.	Ч.	н 		40% dolomite, light to med. brown, buff-grey as above 60% dolomite, light to med. grey as above
	4895	4900		м. С	0 Lis		50% dolomite, variegated grey and blackish, microxln, brittle, hard, tight 40% dolomite, med brown, occas. black specked, microxln,
		2		¢			hard, tight 10% limestone, tan to light brown, platy, hard, tight
	4900	4910					60% dolomite, beige to light brown, microxln, hard 40% dolomite, grey, med. hard
	4910	4920					40% dolomite, beige 40% dolomite, grey 20% limestone to dolomitic limestone, creamy, cryptoxln,
		l (¹					hard, tight
	4920	49215	9				40% dolomite, beige to light grey 60% dolomitic limestone or limestone, dark brown to dark grey bioclastic, microbrecciated, microxln to crystall.
	4925	4930	2				10% dolomite, beige to light grey 50% limestone, dark brown as above 40% limestone, whitish, cryptoxln to microxln, soft, tight
	4930 - 0	4935					10% dolomite 60% limestone, beige to brown, biodetrital, microbrecc. (occas), microxln to crystall. hard, tight 30% limestone, whitish, soft
	4935	4940	5 2	đ			70% limestone, brown to beige, fossiliferous, hard.
	·						30% limestone, whitish, soft
	4940	4950					as above
	4950	4955					80% limestone, light brown, beige, occas. pseudobrecc. 20% limestone, whitish, soft

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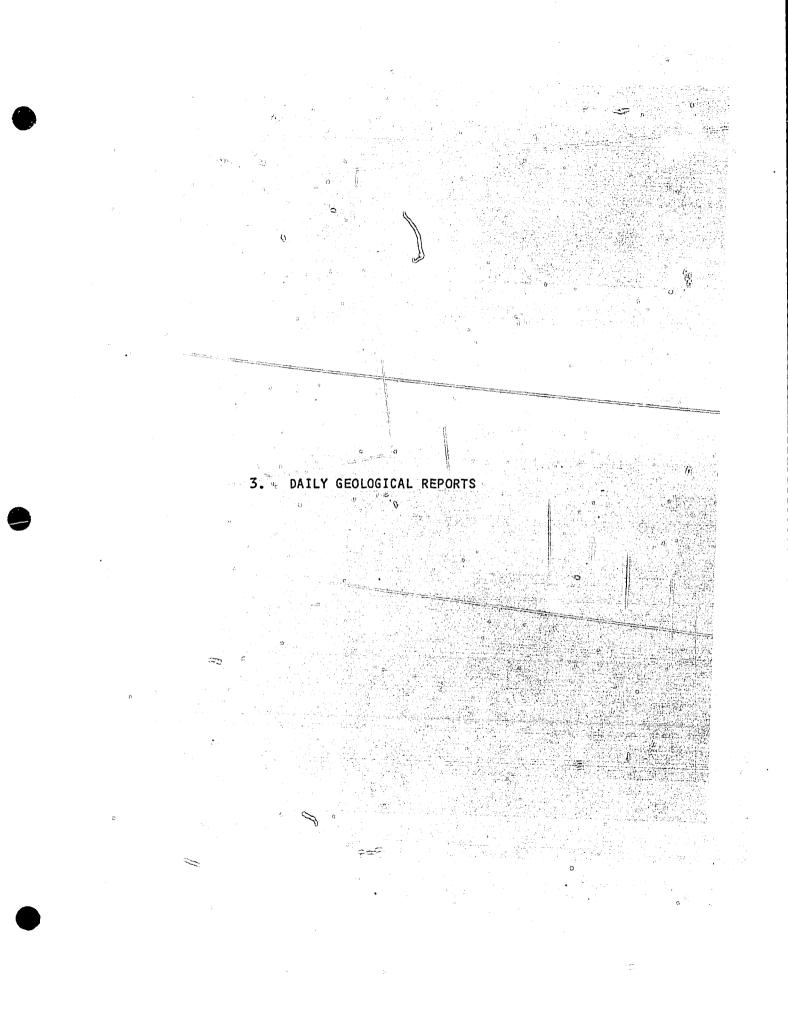
COMPANY OF CANADA LTD.

From	Το	Core C Ditch D	No. of Ft. Porous	No. of Ft. Nen-Perous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION Sheet No. 33
4955	4960					as above
4960	4970		× .			as above
4970	4975			Ð		60% Limestone, beige-tan, hard - no more breccia neither bioc 40% Limestone, whitish, soft
4975	4980		- -			80% limestone, light to med. brown, hard 20% limestone, whitish, soft
4980	4990					60% limestone, light to med. brown, microxln to cryst. hard tight, occas. pseudo microbrecc. 40% limestone, whitish, soft
4990	4995		Ð.			as above
4995	5000					as above
5000	5010					50% limestone, beige-brown, locally. brecciat. and bioclast. 50% limestone, whitish, soft
5010	5020					as above
5020	5030				0	40% limestone, light brown, hard 60% limestone, whitish, soft
5030	5040					as above
5040	5050					as above
5050	5060					50% limestone, light brown, hard 50% limestone, whitish, soft
5060	5065					as above
506 5	5070			0		as above
5070	5075					as above
5075	5080					as above
5080	5085					as above
5085	5090		, ,			60% limestone, brown as above 40% limestone, whitish, soft
5090	5095					50% limestone brown 50% limestone, white

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From	То	Core C Ditch D	No. of Ft. Porous	Na. of Ft. Nan-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION Sheet No. 34 CONFIDENTIAL POLAR BEAR 0-20
5095	5100	ĥ				60% limestone, white-cream, soft - firm, microxln, no visibl porosity, occas. black specks/streaks 40% limestone, light to med. brown, microxln to xln, hard no porosity - locally bioclastic
5100	5105					as above
5105	5110					as above
5110	5115					as above
5115	5120					as above
5120	5125					60% limestone, brown, buff-grey 40% limestone, white-cream
5125	5130		ľ	4		55% limestone, brown, buff-grey 40% limestone, white-cream 5% limestone, dolomitic, light grey-buff, microxln, tight, h
5130	5135		0	C		80% limestone 20% sand: fine to coarse, rounded, well sorted grains of qua 2 sizes – most common: 0.2 mm – less common: 1.5 mm
5135	5140					40% limestone 30% sand, medium to very coarse (2 mm) 30% shale, green-grey, silty, soft The medium sand is locally slightly cemented
5140	5145			e		angular grains of quartz with mafic minerals (amphibole); white feldspar = granite
5145	5150			t -		as above with white and black mica = granite
5150	5155					granite o
5155	5160					granite
5160	5170					END OF DRILLING - October 14. 1974.
No.		4		2		
			<u> </u>	<u> </u>	<u> </u>	



FORM 6104

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20	UITA	INIS		DATE	:	No.		DAILY	K REF	PORT		L	F	OOTAG	E	LA	ST D	EFTH	<u> </u>	VELL	NAV.E	
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From	То	Drilling		ONATE		PORC			, ,				L	ITHOLO	OGY				્યુ		•	Alexandria
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TYPE OF	DRILLING				TYF	PE OF BIT	<u></u>	1	G AGE/I	ORMA'	TION	Pr	recambr	ian a	t 5140'							17
TYPE OF	DRILLING		SHOWS		TYF	PE OF BIT			AGEN		TION	Pr	GAS SHC								-	17
Depth		OIL		Fluc	prescence	2			G AGE/R				GAS SHO	ows			NS (Ki		Ition	Den		
Depth or Time	Colour	OIL : Odour	Di Mud	Fluc irect Cut	prescence Extr. Itings	Colour Intensity	26		AGEN		Rat	tio	GAS SHO	ows		R	atio	Dur	Ition Kick	Den Suct.	Comp.	17 Sem- ple
Depth or Time		OIL	Di	Fluc	prescence Extr.	Colour	26	Gas	Backgrour	nd	Rat		GAS SHO	ows	Ga	п. С1 _{/с2}	atio	Dur: /Choke		ļ		Sam-
Depth or	Colour	OIL : Odour	Di Mud	Fluc irect Cut	prescence Extr. Itings	Colour Intensity		Gas From	Backgrour To	nd %	Rət C1, C2		GAS SHO Depth or Time	DWS	Ga: Nature	п. С1 _{/с2}	^{C 1} /C3	Dur: /Choke	Kick	Suct.	Comp.	Sam- pla
Depth or Time	Colour	OIL : Odour	Di Mud	Fluc irect Cut	prescence Extr. Itings	Colour Intensity	Constant	Gas From	Backgrour To	nd %	Rət C1, C2		GAS SHO Depth or Time	DWS	Ga: Nature	п. С1 _{/с2}	^{C 1} /C3	Dur: /Choke	Kick	Suct.	Comp.	Sam- pla
Depth or Time	Colour	OIL : Odour	Di Mud	Fluc irect Cut	prescence Extr. Itings	Colour Intensity	Constant Increasing Decreasing	Gas From	Backgrour To	nd %	Rət C1, C2		GAS SHO Depth or Time	DWS	Ga: Nature	п. С1 _{/с2}	^{C 1} /C3	Dur: /Choke	Kick	Suct.	Comp.	Sam- pla
Depth or Time	Colour	OIL : Odour	Di Mud	Fluc irect Cut	prescence Extr. Itings	Colour Intensity	Constant	Gas From	Backgrour To	nd %	Rət C1, C2		GAS SHO Depth or Time	DWS	Ga: Nature	п. С1 _{/с2}	^{C 1} /C3	Dur: /Choke	K ick 38	Suct.	Comp.	Sam- pla
Depth or Time	Colour	OIL : Odour	Di Mud	Fluc irect Cut	prescence Extr. Itings	Colour Intensity	Constant Increasing Decreasing Regularly	Gas From	Backgrour To	nd %	Rət C1, C2		GAS SHO Depth or Time	DWS	Ga: Nature	п. С1 _{/с2}	^{C 1} /C3	Dur: /Choke	Kick	Suct.	Comp.	Sam- pla
Depth or Time 18	Colour 19	OIL : Odour 20	21	Fluc irect 22	Prescence Extr. Itings 23	Colour Intensity	Constant Increasing Decreasing Regularly	Gas From	Backgrour To	nd %	Rət C1, C2		GAS SHO Depth or Time	DWS	Ga: Nature	п. С1 _{/с2}		Dur: /Choke	K ick 38	Suct.	Comp.	Sam- pla
Depth or Time	Colour 19	OIL : Odour	21	Fluc irect 22	Prescence Extr. Itings 23	Colour Intensity 24	Constant Increasing Decreasing Regularly Irregularly	Gas From	Backgrour To	nd %	Rət C1, C2		GAS SHO Depth or Time	DWS	Ga: Nature	п. С1 _{/с2}	36	Dur: /Choke	K ick 38	Suct.	Comp. 40	Sem- ple
Depth or Time 18	Colour 19	OIL : Odour 20 	21	Fluc irect 22	rescence Extr. 23	Colour Intensity 24	Constant Increasing Decreasing Regularly	Gas From	Backgrour To	nd %	Rət C1, C2		GAS SHO Depth or Time	DWS	Ga: Nature	п. С1 _{/с2}		Dur: /Choke	K-rek 38	Suct.	Comp. 40	Sam- pla
Depth or Time 18	Colour 19 Oill/B	OIL : Odour 20 itumen / Flui Gain	Di Mu() 21	Fluc irect 22 	ry Loss	Colour Intensity 24	Constant Increasing Decreasing Regularly Irregularly	Gas From 27	Backgroun To 28	nd %	Rat C1, 21 30	31	GAS SHC	DWS % Max. 33	Ga: Nature 34	п. С1 _{/с2}		Dur: /Choke	K ick 38	Suct.	Comp. 40	Sem- ple
Depth or Time 18	Colour 19	OIL : Odour 20 itumen / Flui Gain	d-Heavy-	Fluc irect 22 	rescence Extr. 23	Colour Intensity 24	Constant Increasing Decreasing Regularly Irregularly	Gas From 27	Backgroun To 28	nd %	Rat C1, 21 30	31	GAS SHO Depth or Time	DWS % Max. 33	Ga: Nature 34	п. С1 _{/с2}		Dur: /Choke	K-rek 38	Suct.	Comp. 40	Sem- ple
Depth Gr Time 18 25 25	Colour 19 Oil/B	OIL : Odour 20 itumen / Flui Gain To	d-Heavy-	Fluc irect 22 	ry Loss To	Colour Intensity 24 	Constant Increasing Decreasing Regularly Irregularly	Gas From 27	Backgroun To 28	nd %	Rat C1, 21 30	31	GAS SHC	DWS % Max. 33	Ga: Nature 34	п. С1 _{/с2}		Dur: /Choke	K-rek 38	Suct.	Comp. 40	Sam- pla 4.?
Depth or Time 18 25 42 D V	Colour 19 Oil/B	OIL : Odour 20 itumen / Flui Gain To	d-Heavy-	Fluc irect 22 	ry Loss To	Colour Intensity 24 	Constant Increasing Decreasing Regularly Irregularly	Gas From 27	Backgroun To 28	1d % 29 4200	Rat C1, 21 30	31	GAS SHC	DWS % Max. 33	Ga: Nature 34	п. С1 _{/с2}		Dur: /Choke	K-rek 38	Suct.	Comp. 40	Sem- ple

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1	UITA	INIS		DAT	<u> </u>	No.		DAILY	BFF	OBT		L	1	OOTAC	F	LA	STC	EPTH	1	NELL	NAME	
	Y OF CAN		1 1	5/10/	74	² 24		GEOLO				ACC NO.	96	Ft.	Hr.	5	517	0 Ft.	⁶ PO	LAR	BEAF	2
From	То	Drilling		ONATE			OSITY							LITHOL								
7	8	Rate 9	10	3 min 11	15 min 12	Type 13	Grade	5	,													
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5125	5140	<u> </u>					┼───┼	Limest														
2125	<u> </u>	<u> </u>	<u> </u>				++	Shale,	green	, arg	<u> </u>	ace	ous - s	andst	one	<u></u>					·	
5140	5170							Basemei	nt - G	ranit	te											
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TYPE OF	DRILLING	j		1	TYP	PE OF BIT		10	AGE/F	ORMA	TION	1	Below T	op Pr	ecambri	ian						17
л. 1. Ну		OIL	SHOWS										GAS SH	OWS								
Depth				Flue	orescence			Gas (Backgrour	nd		_			Ga	s Shov						
or Time	Colour	Odour	Mud	irect Cut	Extr.	Colour Intensity	26	From	То	%	Ra C1, C2		Depth or	%	Nature	h	C1,	Dur: / Choke	ation Kick	Den Suct.	suty Comp.	S#m- ple
13	19	20	21	22	23	24]	27	28	29	<u>'C2</u> 30		Time 32	Max. 33	34	35		37	38	39	40	41
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			1255	╂			Constant															·i
							Decreasing Regularly								ļ	<u> </u>	ļ	<u>.</u>		ļ		
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25	Oil/B	itumen/Flui	d-Heavy-	·Pasty-D	- <u> </u> ry	<u> </u>	-			<u> </u>	┼╌┤							<u> </u>		<u> </u>		
		M	UD			F	EMARKS		h		-li		L			-			les mener			51
42		Gain	T		Loss																	
D	From			From	To	bbl/h	Loggi	ing CI	IL, ED	, GRS	. DI	P							7.			
· - ·	43	44 4	15	47	48	49																
۴ <u>–</u>		<u> </u>				 									<u> </u>							
NaCi						*	Program 1. F) appr					Veloc	ity Sur	vey						52
% Fuel	Total		46	Daily To	otal	50 f	osition at 8 A.	м.	وبدواء بوريارة المرجعة	<u>ר ה</u>	.D.	51	170'		-							53









100	UITA	INIE		DAT	E	No.		DAILY	' BEF	PORT		Ĺ.	!	OOTAG	E	LA	STD	EPTH	<u> </u>	NELL	NAME	
	TY OF CAN		1 14	/10/7	4	² 23		BEOLO					³ 248	Ft.	Hr.	5 5	074	Ft.	6 PO	LAR	BEAR	2
From	То	Drilling	_	BONATE			DSITY						-	LITHOL		<u> </u>						
	8	Rate			15 min 12		Grade									<u>.</u>						
	8	<u>'Min/ft</u>	10	11		13	14 1	5														
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4826	4880	4-6	95	95	96		<i>F</i>	lterna	ting:						micro>	<u>kln</u>	<u>ha</u>	rd,	<u>tigh</u>	<u>t</u>		
			<u> </u>		<u> </u>	<u> </u>	<u> </u>			limes	ston	e, (grey, s	soft	·							
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4880	4915		ļ		ļ	ļ][olomit	e, gre	y, b	ack	br	own, mi	icroxl	.n, hard	<u>, t</u>	igh	<u>t</u>		·		
				+	ļ		<u> </u>															
4915	5074		<u> </u>		 	ļ	<i>F</i>	lterna	ting:					ccasic	onally f	faci	es	foss	ilif	erou	IS .	
			ļ	<u> </u>	<u> </u>	ļ	┝───┼		· · · · · · · · · · · · · · · · · · · 	hard												
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	l	L		1	L	l	<u></u>	10														17
TYPE OF	DRILLING		-		TY	PE OF BIT			AGE/	FORMA	TION	Ba	d Cache				-			وي المراجع		
	.	01L	SHOWS			<u>:</u>						···.	GAS SH	ows								
Depth or	Colour	Odour		F lue	Extr.		26	Gas	Backgrou	nd T	Ra	tio	Depth	%	Ga T	S Show	ns (K		ation	Der	nsity	Sem.
Time		L	Mud	Cu	ttings	Intensity		From	То	%	C1, C2	(C) (C)	or Time	Max.	Nature	C1/07	C1/C3	/Chake	Kick	Suct.	Cemp	ple
13	19	20	21	22	23	24	4	27	28	29		31		33	34	35	36	37	38	39	40	41
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25	Oil/B	itumen/Flu	id-Heavy	Pasty-D	rγ																	
		N	סטו			F	EMARKS															51
42 D		Gain			Loss			Total	oas a	and a	ains	as	yeste	rdav								
	From		bbl/h 15	From 47	То 48	651/h			340 (20	,	/								
v	43	144 1																				
۲	43	44			[I																
F	43	44				<u> </u>	ronrom		<u> </u>		·	. <u></u>					<u></u>					52
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FORM 6104

	UITA	INIE		DATE	-	No.		DAIL	Y REF	PORT	,	L	F	OOTAC	E	<u> LA</u>	ST D	EPTH		NELL	NAME	
	LY OF CAN		13	/10/?4	4	2 22		GEOLO				1	153	Ft.	Hr.	5	4820	ς Ft.	POI	LAR	REAR	
From	То	Drilling		ONATE		PORC	DSITY							ITHOL	DGY	<u></u>						م د سازی
7	8	Rate	1 min 10	13 min 11	15 min	Type 13	Grade	5														
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}		ļ		ļ	ļ	ļ	<u> </u>															
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TYPE OF	DRILLING				TYI	PE OF BIT		,	6 AGE/	FORMA	TION	CH	nurchil	l Riv								17
{			_				T								<u> </u>							
[01	SHOWS										GAS SHO	DW/S								
Depth	ſ	01L	SHOWS		prescence	<u>, .</u>	· · · · · · · · · · · · · · · · · · ·	Gas	Backgrou	nd			GAS SHO		Ga	s Shov	ws (K	icks)				
Or	Colour	OIL Odour	D	irect	Extr.	Colour	26		1		Rat	tio	Depth	%	T	R.	Atio	Dur	ation	ţ	iuty	Same
	Colour 19	1		irect			26	From	To	%	C1, C2	^{C1} /C3	Depth or Time	% Мэх.	Nature	R. C1/C2	4tin C ¹ /C3	Dur /Choke	Kick	Suct.	Comp.	pie
or Titne		Odour	D Mud	irect Cut	Extr. ttings	Colour Intensity	26		1		C1, C2	tio C1 _{/C3} 31	Depth	%	T	R. C1/C2	4tin C ¹ /C3	Dur		ţ		
or Titne		Odour	D Mud	irect Cut	Extr. ttings	Colour Intensity	4	From	To	%	C1, C2	^{C1} /C3	Depth or Time	% Мэх.	Nature	R. C1/C2	4tin C ¹ /C3	Dur /Choke	Kick	Suct.	Comp.	pie
or Titne		Odour	D Mud	irect Cut	Extr. ttings	Colour Intensity	Constant Increasing	From 27	To	%	C1, C2	^{C1} /C3	Depth or Time	% Мэх.	Nature	R. C1/C2	4tin C ¹ /C3	Dur /Choke	Kick	Suct.	Comp.	pie
or Titne		Odour	D Mud	irect Cut	Extr. ttings	Colour Intensity	Constant	From 27	To	%	C1, C2	^{C1} /C3	Depth or Time	% Мэх.	Nature	R. C1/C2	4tin C ¹ /C3	Dur /Choke	Kick	Suct.	Comp.	pie
or Titne		Odour	D Mud	irect Cut	Extr. ttings	Colour Intensity	Constant Increasing Decreasing	From 27	To	%	C1, C2	^{C1} /C3	Depth or Time	% Мэх.	Nature	R. C1/C2	4tin C ¹ /C3	Dur /Choke	Kick	Suct.	Comp.	pie
or Titne		Odour	D Mud	irect Cut	Extr. ttings	Colour Intensity	Constant Increasing Decreasing Regularly	From 27	To	%	C1, C2	^{C1} /C3	Depth or Time	% Мэх.	Nature	R. C1/C2	4tin C ¹ /C3	Dur /Choke	Kick	Suct.	Comp.	pie
or Titne	19	Odour 20	D Mud 21	irect Cut 22	Extr. ttings 23	Colour Intensity	Constant Increasing Decreasing Regularly	From 27	To	%	C1, C2	^{C1} /C3	Depth or Time	% Мэх.	Nature	R. C1/C2	4tin C ¹ /C3	Dur /Choke	Kick	Suct.	Comp.	pie
or Time 13	19	Odour 20 itumen/Flu	D Mud 21	irect Cut 22	Extr. ttings 23	Colour Intensity 24	Constant Increasing Decreasing Regularly Irregularly	From 27	To	%	C1, C2	^{C1} /C3	Depth or Time	% Мэх.	Nature	R. C1/C2	4tin C ¹ /C3	Dur /Choke	Kick	Suct.	Comp.	pie 41
or Time 13	19	Odour 20 itumen /F lu	D Mud 21	irect Cut 22	Extr. Itings 23	Colour Intensity 24	Constant Increasing Decreasing Regularly Irregularly EMARKS	From 27	To 28	29	C1/ 30		Depth or Time 32	% Mox. 33	Nature 34	R. C ¹ / _C ; 35	Atio 2 ^{C1} / _{C3} 36	Dur /Chake 37	Kick	Suct.	Comp.	pie
or Time 13	19	Odour 20 itumen /F lu M Gain	D Mud 21 id-Heavy IUD	irect Cut 22	Extr. ttings 23	Colour Intensity 24	Constant Increasing Decreasing Regularly Irregularly EMARKS	From 4	To 28	% 29	edde	ci _{/c3} 31	Jepth or Time 32	% Mox. 33	Nature	R. C ¹ / _C 2 35	soft	Dur /Chake 37	Kick 38	Suet. 39	Comp. 40	pie 41
or Time 13 25 42	19 Oil//B	Odour 20 itumen /F lu M Gain	D Mud 21 id-Heavy IUD	Pasty-Dr	Extr. ttings 23 23 ry Loss	Colour Intensity 24	Constant Increasing Decreasing Regularly Irregularly EMARKS	From 4	To 28	% 29	edde	ci _{/c3} 31	Jepth or Time 32	% Mox. 33	Nature 34	R. C ¹ / _C 2 35	soft	Dur /Chake 37	Kick 38	Suet. 39	Comp. 40	pie 41
or Time 13 25 42 D	19 Oil//B	Odour 20 itumen / Flu M Gain Tc: 44	D Mud 21 id-Heavy IUD	Pasty-Dr	Loss To	Colour Intensity 24	Constant Increasing Decreasing Regularly Irregularly EMARKS	From 4	To 28	% 29	edde	ci _{/c3} 31	Jepth or Time 32	% Mox. 33	Nature	R. C ¹ / _C 2 35	soft	Dur /Chake 37	Kick 38	Suet. 39	Comp.	pie 41 51
or Time 19 25 42 V	19 Oill/B	Odour 20 itumen / Flu M Gain Tc: 44	D Mud 21 id-Heavy IUD	Pasty-Dr	Loss To	Colour Intensity 24 	Constant Increasing Decreasing Regularly Irregularly EMARKS	From 4	To 28	% 29	edde	ci _{/c3} 31	Jepth or Time 32	% Mox. 33	Nature	R. C ¹ / _C 2 35	soft	Dur /Chake 37	Kick 38	Suet. 39	Comp. 40	pie 41

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40	UITA	INF		DATE		No).		DAILY	REP	ORT		L	F	OOTAG	٤	LA	ST UI	PTH	1	VELL	NAME	
	NY OF CAN		1	/10/7		2 21		G	EOLO	<u> </u>	HOW	S	ľ	208	<u></u>	Hr.	4	673	Ft.	PO	LAR	BEAR	2
From	To	Drilling Rate		ONATE	W.I.IW 15 min	POP Type	ROSITY							. L	ITHOL	DGY							
7	8	Min/ft	10	11	12	13	14	15										·····					
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TYPE OF	DRILLING	; ;	<u> </u>	<u>.</u>	TYI	PE OF BIT	 r		10	AGE/F	ORMAT	ION											1
TYPE OF	DRILLING		SHOWS	J	TYI	PE OF BIT			1(AGE/F	ORMAT	ION		GAS SHO	ows								
Depth		OIL			orescence	e				AGE/F Backgrour					·····	Ga	s Shov						
Depth or Time	Colour	OIL Odour	D Mud	irect Cut	orescence [Extr. ttings	e Colour Intensi	26			AGE/F		Ratio		GAS SHO	DWS	Ga Nature	А.	tie		tion Kict	- Der Suct	VIY Comp	5 Ser pie
Depth		OIL	0	irect	orescence Extr.	e Coloui	26		Gast	Backgrour	nd		100	Depth or	%	T	А.	tie	Dur. /Chore		+		
Depth or Time	Colour	OIL Odour	D Mud	irect Cut	orescence [Extr. ttings	e Colour Intensi	26		Gas I From	AGE/F Backgrour To	nd %	Ratic C1, C1 C2	100	Depth or Time	% Max.	Nature	н. с1 _{/с7}	CI/C3	Dur. /Chore	KKt	Suct	Comp	pie
Depth or Time	Colour	OIL Odour	D Mud	irect Cut	orescence [Extr. ttings	e Colour Intensi	26 iy Co	nstant	Gas I From	AGE/F Backgrour To	nd %	Ratic C1, C1 C2	100	Depth or Time	% Max.	Nature	н. с1 _{/с7}	CI/C3	Dur. /Chore	KKt	Suct	Comp	pie
Depth or Time	Colour	OIL Odour	D Mud	irect Cut	orescence [Extr. ttings	e Colour Intensi	con Inc	creasing creasing	Gas I From	AGE/F Backgrour To	nd %	Ratic C1, C1 C2	100	Depth or Time	% Max.	Nature	н. с1 _{/с7}	CI/C3	Dur. /Chore	KKt	Suct	Comp	pie
Depth or Time	Colour	OIL Odour	D Mud	irect Cut	orescence [Extr. ttings	e Colour Intensi	Con Inc Dec Reg	reasing	Gas I From	AGE/F Backgrour To	nd %	Ratic C1, C1 C2	100	Depth or Time	% Max.	Nature	н. с1 _{/с7}	CI/C3	Dur. /Chore	KKt	Suct	Comp	pie
Depth or Time	Colour	OIL Odour	D Mud	irect Cut	orescence [Extr. ttings	e Colour Intensi	Con Inc Dec Reg	creasing creasing gularly	Gas I From	AGE/F Backgrour To	nd %	Ratic C1, C1 C2	100	Depth or Time	% Max.	Nature	н. с1 _{/с7}	CI/C3	Dur. /Chore	KKt	Suct	Comp	pie
Depth or Time	Colour 19	OIL Odour 20	D Muđ 21	irect Cut 22	orescence Extr. 11ings 23	e Colour Intensi	Con Inc Dec Reg	creasing creasing gularly	Gas I From	AGE/F Backgrour To	nd %	Ratic C1, C1 C2	100	Depth or Time	% Max.	Nature	н. с1 _{/с7}	CI/C3	Dur. /Chore	KKt	Suct	Comp	pi
Depth or Time g	Colour 19	OIL Odour 20 Junen / Flu	D Mutt 21	irect Cut 22	orescence Extr. 11ings 23	e Colour Intensi	Con Inc Dec Reg	creasing creasing gularly egularly	Gas I From	AGE/F Backgrour To	nd %	Ratic C1, C1 C2	100	Depth or Time	% Max.	Nature	н. с1 _{/с7}	CI/C3	Dur. /Chore	KKt	Suct	Comp	pi
Depth or Time B 25	Colour 19	OIL Odour 20 Junen / Flu	D Muđ 21	irect Cut 22	orescence Extr. 11ings 23	e Colour Intensi	Con Inc Dec Reg	reasing creasing gularly egularly	Gas I	To 28	nd	Ratic C1, C1 20 3	1	Depth or Time 32	°6 Max. 33	Nature 34	4. C1/C7 35	36	Dur. /Chore 37	KKt	Suct	Comp	
Depth or Time g	Colour 19 Oil/E	OiL Odour 20 Bitumen / Flu Gain To	D Mud 21 id-Heavy AUD	rect Cut 22 Pasty-D	orescence Extr. ttings 23 23 23 20 20 20 20 20 20 20 20 20 20 20 20 20	2 Colour Intensi 24	Con Inc Dec Reg	creasing creasing gularly egularly RKS	Gas I From 27	Backgrour To 28 80' to	nd % 29	Batic C1, C1 20 3		Depth or Time 32	96 Max. 33	Nature 34	erda		Dur. /Chore 37	KKt	Suct	Comp	pi
Depth or Time B 25	Colour 19 Oil/E	OiL Odour 20 Bitumen / Flu Gain To	D Muđ 21	·Pasty-D	orescence Extr. 23 23 bry Loss	e Colour Intensi 24	Con Inc Dec Reg	creasing creasing gularly egularly RKS	Gas I From 27	Backgrour To 28 80' to	nd % 29	Batic C1, C1 20 3		Depth or Time 32	gas	Nature 34	erda		Dur. /Chore 37	KKt	Suct	Comp	pi
Depth or Time 9	Colour 19 Oil/E	OiL Odour 20 Bitumen / Flu Gain To	D Mud 21 id-Heavy AUD	rect Cut 22 Pasty-D	orescence Extr. ttings 23 23 23 20 20 20 20 20 20 20 20 20 20 20 20 20	2 Colour Intensi 24	Con Inc Dec Reg	reasing creasing gularly egularly RKS	Gas I From 27	Backgrour To 28 80' to	nd % 29	Batic C1, C1 20 3		Depth or Time 32	gas	Nature 34	erda		Dur. /Chore 37	KKt	Suct	Comp	pi



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AQUITAINE COMPANY OF CANADA LID		DATE		No	·	DAIL	Y REP	ORT		T.		OCTAG	E	LA	ST D	ЕРТН	1	VELLI	NAME			
			1	1/10/7	74	² 20			GY - S			3		Ft.	Нг.	5	446	5 Ft.	POL	AR E	BEAR	
From	То	Drilling		BONATE			ROSITY						 L	THOLO	DGY	4			1			
7		Rate Min/ft	1 min 10	3 min 11	15 min 12	ї уре 13	Grade 14															
		<u>runzit</u>		+								_										
4370	4465	5-7	in 25	69	88		_	lonoto					noom l	imaget	one, mo							
			nx 59		99		-++'	locally	dolo	mite,	mic	rox	kin, ha	rd, t	icht.		<u>u</u>	LESS	0010	mir.		
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		· 								<u></u>					· · · · · · · · · · · · · · · · · · ·		<u> </u>					
TYPE OF			<u> </u>	1		PE OF BIT		1	6 AGE/	ORMAT	TION											17
		011	SHOWS				1						GAS SH									
Depth	ſ	T	1		rescence	. <u> </u>		Gas	Backgrour	nd					Ga	s Shov	vs (K	icks)				
or Time	Colour	Odour	D	lirect	Extr. tings			From	То	%		tio	Depth or	%	Nature	-	ntie To i		ation	Den		Sam- pie
18	19	20	21	22	23	24	· <u>·</u> ·	27	28	29	30	^{C1} /C3	Time 32	Max.	34	35		/Choke	Kirck 38	Suct. 39	Comp. 40	41
		-			-											+			<u> </u>	[-	
						1	Constant										†					s
							Increasing Decreasing		+		+				1			†				
-							Regularly Irregularly									1		1	1	1		
										1					1		1					
						l	·						1									
25	Oil//B	itumen/Flui	id-Heavy	/•Pasty•D	ry		<u> </u>															
			UD				REMARKS .															51
42 D	From	Gain To	bbl/h	From	Loss To	bbl/h	4425 – 4450 interbeds of shale, dolomitic, silty, soft															
v _	43			47	48	49	446.	/ = 44:	20 HU	renne	us c	<i>.</i> 1 5	snale,	uorom	ICIC S	ιιτγ	7 8 - 5	σιτ				
F		1																				
NaCI		1					Program		•													52
		1 1					Program ⁵⁰ Position at 8 A.M. Drilling at 4542 (Limestone - anhydrite)															



FORM 6104

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AQUITAINE COMPANY OF CANADA LID		DAT	E	No	5.		DAIL	/ REP	ORT				FOOTAC	SE	LA	ST D	EPTH	16	NELL	NAME			
			1	10/10	/74	2 19		G	EOLO	GY - S	HOM	VS		270	Ft.	Hr.		437(5 ^{Ft.}	1	AR	BEAR	
From	To	Drilling Bate	CAR	BONATE 3 min	W.UW		ROSITY								LITHOL	OGY				, distinguists of Loca			
7	8	⁹ Min/f		111	12	Type 13	14	ade 1	5														
			-4	+		+																	
4100	4308	3-7	mn 32	75	93	1			Altern	ating -	- Dol			t bro				cry	voto	vin t		ine	vln
			mx 80		94											_brown_							***
																e_anhyd			() - 00		CIU		
				_																			
-4308-	4358	1-2			<u> </u>	<u> </u>			Probab	<u>le solu</u>	uble	salt		NA and	<u>к</u>				·				
4358	4370	3-5	42	60	65				Dolomi	te tan	- da	rk t	orow	in, fin	e xln	, hard				<u></u>	- <u></u>	. <u> </u>	
			·			 									····				· ·				
						- (A																	
		· · ·	+	6.	4																		
			+			{·																	
TYPE OF	DRILLING	h				PE OF BI	Γ		7	⁶ AGE/F	ORMA	TION	Pos	sible	Churc	hill at	43(08.					17
[011	. SHOWS	5			1						ت ک اند	GAS SH						للجريارة وتريابهم			
Depth					orescence		_		Gas	Backgrour	id	1 0				Ga	s Show	ws (K atio		ation		sity	 r
er Time	Colour	Odour	Mud		Extr. ttings	Intensi		Ķ	From	То	%		c1/C3	Depth or Time	% Max,	Nature			/Choke		Suct.	Comp.	Sam- ple
18	19	20	21	22	23	24	_	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	27	28	29	30	31	32	33	34	_	_	37	38	39	40	41
										1		1											
ļ								nstant reasing									<u> </u>	<u> </u>	ļ	ļ	<u> </u>		
							Dec	creasing gularly								1	<u> </u>	ļ	ļ	ļ	ļ		
					- <u> </u>			egulariy		ļ						<u></u>	<u> </u>	ļ		 	ļ		
						<u> </u>	-1		ļ		ļ	<u> </u>		ļ		<u> </u>		<u> </u>	ļ	 	┨───		
25	 	itumen/Fk	uid-Heavy	 v-Pastv-D)rv	<u> </u>										ļ		┼					
}			NUD				REMAR	RKS						h		, 	-		<u></u>	ł		Land	51
42	Gain Loss									TOTA			nv r	000									
D.	From	To 44	bbl/h 45	From 47	To 48	bbl/h 49				300	L GAS DOM.	O VE	N 1 P	-008									
V.	43	44	40	4/	48	49					1- 1- 11 a												
NaC1				<u> </u>			Program								- <u></u>								52
% Fuel	el Total 46 Daily Total 5																			53			



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														-											
AQUITAINE COMPANY OF CANADA LID				DAT	E	No.		DAIL	Y REF	PORT				FOOTAC	5536	11.1	ST E	DEPTH	1	WELL	NAM				
			Į'.	09/10)/74	² 18	ļ,	GEOLO	GY - S	HOW	15		246	Ft.	Hr.	1 ⁵ 4	410	0 F1	. ⁶ P(DLAR	BEA	R			
From	To	Drilling		ONATE		POR	OSITY							LITHOL			-		-						
,	18	Rate	1 min	3 min 11	15 min 12	Туре 13	Grade	15					•												
		⁹ MIN/FT									· -	·													
3854	3910	6-8;		- 94	97	<u> </u>	+	Limesto	ne and	<u>dol</u>	omit	e.	Limes	tone	<u>cream t</u>	<u>o me</u>	<u>ed</u> ,	bro	ND.	fine	xln	ı			
		ļi	av 91	94_	97			hard																	
3910	4000		- 17	27			<u> </u>														** **				
	4000		n 12	23	28		1 1	Alterna							lomite	crea	<u>am,</u>	cry	otox	<u>In to</u>	<u>)</u>				
<u></u>		<u> </u> 1	7 <u>x 38</u>	64	72		+	<u>fine xl</u>	<u>n, no</u>	poros	sity	; a	nhydri	te											
/000	1100	, -7				- <u></u>						<u>))</u> _	······································												
4000	4100	4-7	77	86	88			Limesto	one loc	ally	dol	omìi	<u>tic as</u>	abov											
				+																- 0					
<u> </u>	<u> </u>			+									0		<u>ت</u>										
			<u> </u>	·			· · · · · · · · · · · · · · · · · · ·																		
			<u>+</u>												··	<u></u>			·		- <u></u>				
					- <u> </u>									····											
							+						······		<u> </u>										
TYPE OF I	DRILLING	L			тур	E OF BIT		31	G AGE/	ORMAT		_	Possib	lo Ek								17			
			SHOWS	·••			T		1						4011										
Depth	·····		1		prescence			Gas	Backgrou	nd		ı	GAS SH			s Show	NE 14	lickel							
or	Colour	Odour		irec:	Extr.	Colour	26		T	1	Ra	tio	Depth	%	1	R,	atio	Du	ration	De	suty	Sam.			
Time 8	19	20		22 22	tings 23	Intensity 24	4	From	To	%	C1, C2	C1/C3	or Time	Max.	Nature	_		2 /Chok		Suct.	Comp.	ple			
							-	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41			
					- 		4			ļ	1						<u> </u>	J		Ļ	ļ				
		+		+	+		Constant Increasing			<u> </u>	<u> </u>						 	<u> </u>		ļ	ļ	 			
							Decreasing Regularly	ı		<u> </u>					ļ			ļ		ļ	ļ				
							Irregularly			ļ					ļ				<u> </u>	<u> </u>	L				
					- <u> </u>	ļ	4			<u> </u>						<u> </u>	<u> </u>	Ļ	<u> </u>	. 	 				
		1			.L	l	-			<u> </u>	ļ			ļ		+	<u>^</u>	<u> </u>	<u> </u>	12	<u> </u>	L			
	011/18	itumen/Flui		-Pasty-D	rγ		EMARKS									<u> </u>	L		1						
	MUD Gain Loss																	51							
² D	Gain Loss From To bbl/h From To					bbi/h																			
v _	43			47	48	49		trom	5885	to 3	5935	-									Q				
F							•							,						•					
NaCl						P	rogram			,,,,,,,												52			
% Fuel	Total		46	Daily To	otal	50 p	⁵⁰ Position at 8 A.M. Drilling at 4185. Ligestona and dolomite 53										53								
										باراماسينا سامه		salaar.	al IT your like an it is an		بكر أستر المستر المستر المستر المستر المستر المستر المستر المستر المستر المستر المستر المستر المستر المستر الم	ويتعاركه والمتحقق	خاطئت	الملاكيت	تطلابهم						

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AG	UITA	INE	<u> </u>	DATI		No 2	·		DAILY	REP	ORT		3	F	COTAG		LA	STD	EPTH	6	VELLI	NAME	
COMPA	NA OF CUM	ADA LID	5	3/10/7		17	·	G	EOLO	<u>GY - S</u>	HOW	S	201	147	Ft. 2	20:30 Hr.	3	854	Ft.	PO	AR	BEAR	-
From	То	Drilling Rate	CARI 1 min	JONATE	W.UW	POF Type	ROSITY Grade	_						ι	THOL	DGY							
7	8	MIN/FT		11	12	13	14	15	5									· · ·					
			·	†					·····		······································			e.									
3707	3805	7-10	84	89	95			W	hite cl	nert,	conch	oid	al ·	fractur	re: li	mestone	e cr	ezm	• wh	ite,	med	. br	own
																ard, tig							
		5	82	89	91			L	imesto	ne, do	lomit	ic	li	ght	ned. t	prown, b	<u>eig</u>	e	crea	<u>تا م</u>	cypto	oxln	_
					ļ			f	ine xlı	<u>n, har</u>	<u>d - v</u>	ery	ha	rd, sli	ghtly	<u>argill</u>	ace	ous	<u></u>	_gla	المعال	with	
				-	ļ											. dark		wn,	lia	<u>ht a</u>	rey,		
					<u> </u>		1.11.	C	ryptox	l <u>n - f</u>	<u>ine x</u>	ln,	me	dium ha	rd, r	o glauc	•					·····	
			+	+		<u> </u>		•															
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	+	· · · · · · · · · ·			1																		
TYPE OF	DRILLING				رنیسیا ۲۷۱ ∑	PE OF BIT			16	AGE/F	ORMAT	TION											17
	**************************************	011	. SHOWS	;		. <u></u> .								GAS SH	OWS								
Depth					orescence				Gas	Backgrour	nd	1 0.			1	Ga	s Sho	ws (K atio		ation	Den	יאוץ	
or Time	Colour	Odour	Mud	Direct	Extr. ttings	Colour Intensi			From	То	%		tio C1/C3	Depih or Time	% Max.	Nature			/Choke		Suct.	Comp.	Sam- ple
18	19	20	21	22	23	24			27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
							Const														ļ		
	<u> </u>					+	Decre Regul	asing					L					<u> .</u>	ļ	ļ		<u> </u>	
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25	<u> </u>	<u> </u>			<u> </u>					L		_		ļ					<u></u>		<u> </u>		
25	Oil/B	itumen/Flu		γ•Pasty•D	rγ	E.	REMARK	~		1	1	ļ		1	1	· · · ·	<u> </u>		<u> </u>		1	L	51
	·····	Gain	NUD	r	Loss		HEMARK	5						44			- "	- '	, N		•		
42 D	From	bbl/h	From	To	bbl/h										- 12 -	- ⁰ -5							
· ۲	43	44	45	47	48	49																·	
F.				l																			
I						-	Program 52																
NaCI .				Daily T		50	Program Position a							ng at 3									53

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AQUITAINE			DAT	E	No.	<u></u>	DALL	V DE	2003		9		ATOOT	36	11		EPTH	TH VELL NAME				
	COMPANY OF CANADA ITD			7/10/		2 16		DAIL [®] GEOLO				t	³ 156	14	20:00 ^{Hr.}	5	3707		6		BEAR	
From	То	Drilling	_	BONAT	E W.UW	POR				~~~~~	20						5101		PUL	AR	BEAR	
7	8	Rate	1 :nir	1 3 min	15 min		Grade							LITHOL	.OG Y	<u> . </u>						
[⁹ Min/f	t			13	14	15														<u>`</u>
		<u> </u>				ļ					_											
3551	3707	<u> </u>	92	96	100	<u> </u>		Limesto	one gr	ey.b	COW	<u>n</u> t	beige.	cream	white	, 0	c.cas	S- VE		-br	ดพก	
		ļ				<u> </u>		crypto;	kln, v	ery h	ard	, lo	ocally	sligh	tly arg	ill	acec	ous,	foss	sili	fero	us,
								locally	/ sili	cifie	d											
																		-^				
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	+	+																		. <u> </u>		·
	+	╞				<u> </u>	<u> </u>															
TYPE OF		Ł				1		1	6 400													17
I TPE OF	DRILLING				TY	PE OF BIT	<u>.</u>	·	~ AGE/	FORMA	TION						_					
		01	LSHOW	5									GAS SH	ows								
Depth or	Colour	C de la	//	Flu Direct	Extr.	e Colour		Gas	Gas Background					·_····	Ĝa		ws (K					
Time	1	Odour	Muc		ttings	Intensity	26	From	То	%		atio	Depth or	% Max.	Nature		C 1	/Chake	Kick	De Suct.	Comp.	Sam- pla
18	19	20	21	22	23	24		27	28	29		31	3 Time 32	33	34	35	2 ⁷ C3		38	39	40	41
	1			-			1		+					+		1	1				+	<u> </u>
							Constant		·{·····			·	┠	+		-	+!	 	 	<u> </u>		┫━━━
							Increasing		·}				<u> </u>	+	<u> </u>	<u> </u>	╉╾┙	┟───	┨	┼		┼
	+						Decreasing Regularly		·			<u> </u>	_				<u> </u> !	ļ		┨;	_	
							Irregularly			1	\perp		<u> </u>	<u> </u>		1			L	<u> </u>		<u> </u>
		+					4													1	1	
25	1						4															
25	Oil/B	itumen/Fli	uid-Heav	γ•Pasty•D	Dry		<u>}</u>						<u> </u>		1							
		ا 	MUD			Я	EMARKS															5
42 D		Gain			Loss																	
v -	From		661/h 45	From 47	48	651/h																
				ļ																		
				 	 	├ -						•			<u>_</u>							
NaCI _					l		rogram								·····	<u></u>						52
%Fuel_	Total		46	Daily T	otal	50 p	osition at 8 A.	м.			Dri	111	ng at 7	.736								53

FOPM 6104

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AQUITAINE		DAT	E	No.			DAIL	Y REP	ORT	-			FOOTAC)E	1.4	ST D	EPTH		WELL	NAM	ME			
	LY OF CAN		1	06/10	0/74	2 15	- I	G)GY - S				228	Ft. 2	0:00 Hr.	5	3551	Ft.	G PC	JLAR	BEA	R	
Fran	Γo	Drilling Bate		LONATE	15 min	*	DSITY	1	يه منظر اليو المحاد معود						LITHCL	OGY	ł							
7	8	Min/ft	-	11	12	Туре 13	Grade		5					·			·							
				+	· · · —		<u> </u>	+									<u> </u>							
3323	3390	4-5	19	49	100	<u> </u>	†	Dolomite white, pink, beige, cryptoxln -fine xln, very hard,																
	• • • • • • • • • • • • •	•				<u>}</u>		tight, locally slightly pseudo coral, recrystallized																
3390	5نور	3-7	25	55	100											xin, vei				aht				
	1						+		locall	y sliat	ntly	Dorc	us	coral:	dolo	mite da	rk l	brow		irev.	si	lici	fier	
		1			+	<u></u>										actures								
		1			1		1		chlori	de wate	er 20	ъЫ	s i	n 40 m	inute	s betwee	en 3	3460) an	id 34	F70		<u> </u>	
3485	3510	6	34	62	100				Dolomi	te grey	/. be	ige	, 00	casion	ally	white,	ver	v ha	rd,	сгус	tox	ln		
	1		-+	-+	+	t	†			local										<u></u>				
3510	3551	6-7	75	81	100			-fi	imest	one sli	iahtl	v de		itic.	arev.	brown b	heid	10.	000	sior	ally	v		
			-	-					vellow	brown	cry	ptox	(ln,	very	hard.	tight,	gla	auc.	0000	3101		<i>I</i>		
		T				N. W. Y.		1	·								0 0							
				Ę.		1		-†-						······································										
							1																·	
TYPE OF	YPE OF DRILLING				TYI	PE OF BIT			1	G AGE/F	ORMA	TION											17	
		OIL	. SHOWS			لغائب الخبيبي كالويهي	1							GAS SH	ows					ينجهينك ارتبي هي.	7		(1 -1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	
Depth	1	1			orescence		1		Gas	Backgrour	nd					Ge		ws (K						
or Time	Colour	Odour	Mud	Direct	Extr. ttings	Colour Intensity	26		From	To	%	C1, C2	C1/C3	Depth _ or	%	Nature	-	IC1,	Dur. /Choke	ation Kick	Det Suct	Comp.	Sem- ple	
18	19	20	21	22	23	24	1		27	28	29	30	/c3 31	Time 32	Max.	34		2 /CD 36		38	39	40	41	
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25	Oil/B	litumen/Flu	uid-Heavy	/·Pasty·D	rγ]				· {		<u>├</u> ──		1			-		<u> </u>	†	+		
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42		Gain			Loss																			
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⊢ – NaC1 –						├ ─── │ _□	rogram																52	
% Fuel _			A6	Daily T			osition at				Dril			7/701	<u>-</u>								53	
∦ ioruer ⊑	—— Total		40	L Gally L	otai	1 P	usition at	5 A.I	VI.		υΓιί	ιng	i at	3670									55	

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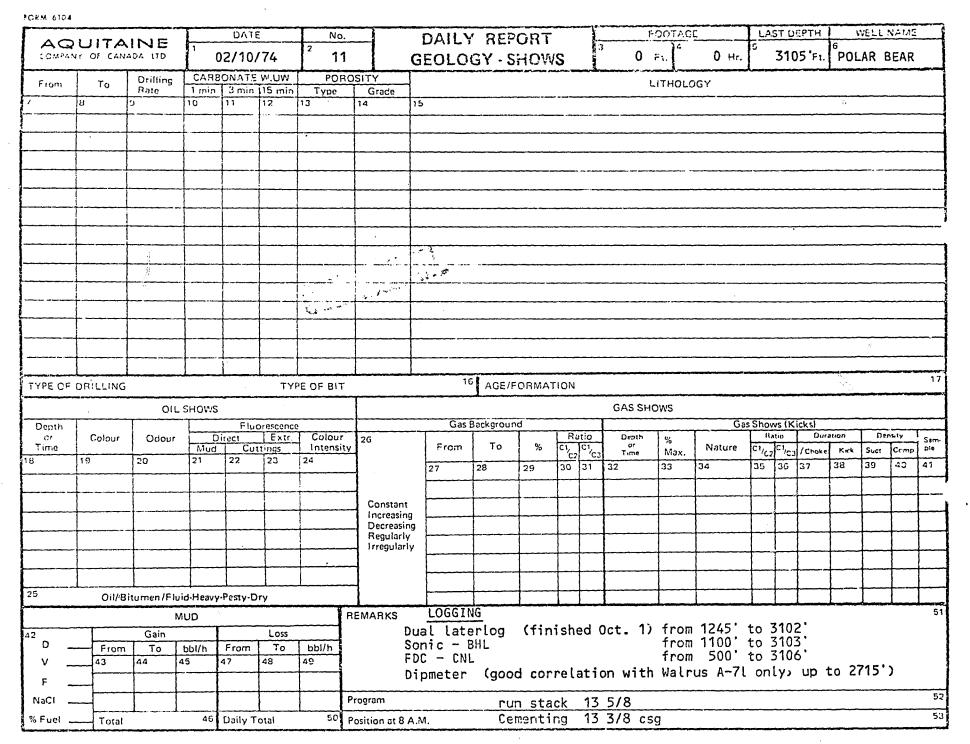
FORM 6104

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AC	UITA			DAT	ε	N	υ.		DAIL	A BEE	OBT	•	Ţ		FOOTAC	Ε	14	AST D	EPTH	1	WELL	NAM	E
	NY OF CAN		1 0	5/10/3	71.	2	4		SEOLO				j.	3 218	EL A	17:45 ^{Hr.}	5	7777	Ft	6			~
	1	Drilling		BONAT			_	SITY				1.2						0020			LAR	BEA	K
From	To	Rate	1 min	1 3 inin	15 min			Grade							LITHOL	DGY							
7	8	² Min/ft	t ¹⁰	11	12	13		14 1	5														
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3105	3323	4-5	20	50	90				Dolomit	e whit	e, p	ink,	be	eige, c	rypto	xln or	fine	e xl	n, \	/ery	hard	d,	
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TYPE OF	DRILLINC		-		<u>+</u> тү	PE OF BI	 7'	l	1		ORMA												17
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Daush	·····		. SHOV:			· ·		. <u> </u>	C	Backgroun				GAS SH	ows			- /14					
Depth or	Colour	Odour	(Direct	Extr.		ir (26		1	1		atio	Depth	%		s Sho	NS IK		ation	De	nuty	Sam-
Tirne 18	19	20	Mud	1 Cu 22	ttings 23	Intens 24	ity		From	To	%	C1,	C1/C3	or Time	Max.	Nature	C'VC	C1/C3	/Choki	Kick	Suct.	Comp	
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25	Oil/B	litumen/Flu	id-Heav	y-Pasty-D	ry						1.		<u>† </u>			1				1	1	1	1
		N	AUD			1	RE	MARKS															51
42		Gain			Loss																		
D _	From		bbl/h	From	To	bbl/h	Į																
· -	43	44	45	47	48	49																	
F ~						<u> </u>	<u> </u>							<u> </u>									····-
NaCI _					<u> </u>		ł	ogram		·				·····									52
% Fuel _	Total		46	Daily T	otal	50	Po	sition at 8 A.I	м.		Dr	illi	ing	at 337	9'								53

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			T	DAT	E	No.	3	DAIL	/ 955	PORT	,	1	F	OOTAG	C	LA	ST U	PTH	l v	VELL	NAM	
	NY OF CAN		1	02/10	/74	2 11		GEOLO				10	0	FL.	0 нг.	15	310)5'Et.	POL	AR I	BEAR	2
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TYPE OF	DRILLING	;			τY	PE OF BIT		1	AGE/	FORMA	TION			.,				,				17
		01	LSHOW				1 .					- 1	GAS SHO	ows							ο,	
Depth	1				erescence	2		Gas	Backgroui	nd		<u> </u>	<u> </u>		Ga	s Sho	ws (K	icks)			·	
or Time	Colour	Odour		Direct	Extr.		26	From	То	%	Ra	tio	Depth	%	Nation		atio		ation	÷	nsiy	Sam-
18	19	20	Muc 21	22	ttings 23	Intensit	¥ (C1, C2	⁷ /c3	Time	Max.	Nature			/Chake		Suct	Comp.	ple
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25	 Oil//P	LBitumen/FI	uid-Heav	v-Pasty-D	 Irv		-		╉		╉━┤			┼───		+	+	<u> </u>	┼────	┼──	+	<u> </u>
						1	REMARKS	LOGGI	NG		لمحمط								<u></u>			51
			MUD							(fin	ishe	h d	Oct. 1)	from	1245	to	310	2'		•		
42 D	From	Gain To	bbl/h	From	Loss To	bbl/h	Sc	onic - I	BHL		10110			trom	1100	to	510	5				
V _	43	44	45	47	48	49	FI	DC - CN	L 👘				an an an an an an an an an an an an an a	from	500	to	310	6'			1.42	
[_F]					<u> </u>	+1	D	ipmeter	(goo	d cor	rela	atio	on with	Walr	us A-7l	oņ	lya	up :	to 27	715.)	
NaCI _			<u> </u>	 	<u> </u>	╎──╂	Program	·	···	 	-1.	47	E / 9									52
2			1		<u> </u>			- <u>-</u>	<u>ru</u>	n sta	CK	12	5/8 3/8 cs						·			53
%Fuel_	Total		46	Daily T	otal	501	Position at 8 A	.M.	ιe	mauri	ng	12	J/0 US	9								55

FORM 6104

1 000		INE	E DATE					1	DAIL	C BEF	PORT	-	2		FUGTAC	3E	10	ST D	EPTH	_	WELL	NAM	:
	UY OF CAN		ľ o	1/10/	74	2 1	0		SEOLO				1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	313	Ft. 1	3:30 Hr.	15	3105	5 Ft.	PO	LAR	BEA	R
From	To	Drilling		SONATE		+	ROSIT	Y			يحيره فلقص وحليات	******	R		LITHOL	067	-lora me		e-,		فيعطين يتجد		* ~
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2702	7070						-+			•													
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2070	7070		·		1											red, l							
	3070	3	2	6	18						stone	Lig	ht_	grey,	fnxln	<u>, argil</u>	lace	<u>20US</u>	<u>, ha</u>	rd,	<u>slig</u>	htl	<u>/</u>
7070	7405	· · · · ·							<u>pitumir</u>														,
	3105	4-7	5	19	45	ļ										n, pure							
		-			+	ļ							cr	eam, c	rypto	xln, ha	rd,	000	as.	quit	e po	rou	31
<u> </u>	<u> </u>	<u> </u>		· 	 		<u> </u>	· !	ninor s	alt, s	shale	•							<u> </u>				
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	DBILLING	<u> </u>	J	1					1	31 ACC /													17
	DRILLING				1 11	PE OF BI	۱ 			AGE/	ORMA	TION											
	·····	01	SHOWS			· · · ·								GAS SH	OW5								
Depth or	Culour	Odour		Fluc	Extr.		26		Gas	Backgrour I	nd 	I Ra	itío	Depth	Ŷ,	Ga		ws (K latio		ation	Den	sity	
Time 18	19	20	Mud 21	Cut	tings 23	Intensi	ity		From	To	%		°1/cə	or Tima	Max.	Nature	C1/C:	2/C1/C3	/Choke	Kick	Suct.	Comp	Sam- pla
						24	_		27	28	29	30		32	33	34	35	36	37	38	39	40	41
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25	Oil/B	itumen/Flu	id-Heavy	Pasty-Di	rγ						1					1							
			UD				REMA	ARKS	/ Lat	anlag													51
42 D		Gain To			Loss To	1.1.1/1					Iniahi		Son	ic - Bl	нс —)	Krav							
v _	From 43		5 bbl/h	From 47	48	bbl/h 49				- CHL		-											
F.		++			·					meter		rogr	ess										
NaCI						+	Progr	am							<u> </u>					•/	<u> </u>		52
% Fuel	fotal		46	Daily To	otal	50		on at 8 A.I						<u> </u>									53
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40	UITA	INE		DATE	<u> </u>	No,		DAILY	REP	ORT		3_		FOOTA	35	LA	STO	SPICH		NELLN	IAME	
COMPA	IT OF CAR	ADA LID	30	19/74	+	2 9		SEOLO	GY - 3	нои	IS	100	167	F1.	12:15 ^{Hr.}	3	279	7 Ft.	ΡO	LAR	BEAF	2
From	То	Drilling Rate		UNATE 3 min		POR(Type	Grade	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						LITHOL	OGY							
	8	<u>'Min/ft</u>	-	11	12	13		5	······································													
2625	2650	3-14	37	75	85		 	light o	n modi					io f	ing vin		~ h +		d			•
	0,00		<u> </u>		20		++-	limesto	· · · · · · · · · · · · · · · · · · ·		Own	<i>.</i> u	otoint	161 1	ine xln	, ti	gnt	<u>, me</u>	<u>u100</u>	nar	<u>u,</u>	
2650	2725	2-7	80	90	92		┤╍━╍╍╍┝╴			ium br	rown	, b	uff, f	ine x	ln, tig	ht,	ver	v ha	rd,	lime	stor	ne.
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2725	0707			10			- 	soft, l														
2725	2797	1-2	37	62	65			Salt pr brown/				S,	occasi	onall	y silty	, SO	ft,	pla	stic	cla	Υ,	
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TYPE OF	DRILLING				TYI	PE OF BIT		1(³ AGE/F	ORMA	TION					÷/						1
TYPE OF	DRILLING	OIL	SHOWS		TYI	PEOFBIT			AGEN		TION		GAS SH	IOWS		ų.						1
Depth or	DRILLING	OIL		Fluc irect	TYI orescence Extr.	Colour	26	Gast	Backgrour	nd	Ra	tio	Depth		1	-	tio	Dur	ation	Den	sity	
Depth or Time	1	1		irect	orescence	2	26	Gas I From	Backgrour To	nd %	Ra C1, C2	^{C1} /C3	Depth or Time	% Max.	Nature	Ra C1/C2	C1/C3	Dur /Choke	Kick	Suct.	Comp.	San ple
Depth or Time	Colour	Odour	D Mud	irect Cut	orescence Extr. ttings	c Colour Intensity	26	Gast	Backgrour	nd	Ra	^{C1} /C3	Depth	%	1	Ra	C1/C3	Dur		<u> </u>		San ple
Depth or	Colour	Odour	D Mud	irect Cut	orescence Extr. ttings	c Colour Intensity	Constant	Gas I From	Backgrour To	nd %	Ra C1, C2	^{C1} /C3	Depth or Time	% Max.	Nature	Ra C1/C2	C1/C3	Dur /Choke	Kick	Suct.	Comp.	San ple
Depth or Time	Colour	Odour	D Mud	irect Cut	orescence Extr. ttings	c Colour Intensity	Constant Increasing Decreasing	Gas From 27	Backgrour To	nd %	Ra C1, C2	^{C1} /C3	Depth or Time	% Max.	Nature	Ra C1/C2	C1/C3	Dur /Choke	Kick	Suct.	Comp.	San ple
Depth or Time	Colour	Odour 20	D Mud	irect Cut	orescence Extr. ttings	Colour Intensity 24	- Constant Increasing	Gas From 27	Backgrour To	nd %	Ra C1, C2	^{C1} /C3	Depth or Time	% Max.	Nature	Ra C1/C2	C1/C3	Dur /Choke	Kick	Suct.	Comp.	1 Serr ple
Depth or Time	Colour	Odour 20	D Mud	irect Cut	orescence Extr. ttings	c Colour Intensity	Constant Increasing Decreasing Regularly	Gas From 27	Backgrour To	nd %	Ra C1, C2	^{C1} /C3	Depth or Time	% Max.	Nature	Ra C1/C2	C1/C3	Dur /Choke	Kick	Suct.	Comp.	San ple
Depth or Time	Colour 19	Odour 20	D Mud 21	irect Cut 22	orescence Extr. 23	2 Colour Intensity 24	Constant Increasing Decreasing Regularly Irregularly	Gas From 27	Backgrour To	nd %	Ra C1, C2	^{C1} /C3	Depth or Time	% Max.	Nature	Ra C1/C2	C1/C3	Dur /Choke	Kick	Suct.	Comp.	Sar ple 41
Depth or Time 3	Colour 19	Odour 20	D Mud 21	irect Cut 22	orescence Extr. 23	2 Colour Intensity 24	Constant Increasing Decreasing Regularly	Gas From 27	Backgrour To	nd %	Ra C1, C2	^{C1} /C3	Depth or Time	% Max.	Nature	Ra C1/C2	C1/C3	Dur /Choke	Kick	Suct.	Comp.	Sar ple
Depth or Time g	Colour 19	Odour 20	D Mud 21	irect Cut 22	orescence Extr. 23	2 Colour Intensity 24	Constant Increasing Decreasing Regularly Irregularly	Gas From 27	Backgrour To	nd %	Ra C1, C2	^{C1} /C3	Depth or Time	% Max.	Nature	Ra C1/C2	C1/C3	Dur /Choke	Kick	Suct.	Comp.	Sar
Depth or Time 3	Colour 19 Oil/B	Odour 20 itumen / Flu M Gain To	D Mud 21 id-Heavy 1UD	Pasty-D	Extr. 23 23	Colour Intensity 24	Constant Increasing Decreasing Regularly Irregularly	Gas From 27	Backgrour To	nd %	Ra C1, C2	^{C1} /C3	Depth or Time	% Max.	Nature	Ra C1/C2	C1/C3	Dur /Choke	Kick	Suct.	Comp.	Sar ple
Depth or Time g	Colour 19 Oil/B	Odour 20 itumen / Flu M Gain To	D Mud 21 id-Heavy	Pasty-D	Corescence Extr. 23 23 23 23 23 23 23 23 23 23 23 23 23	2 Colour Intensity 24	Constant Increasing Decreasing Regularly Irregularly	Gas From 27	Backgrour To	nd %	Ra C1, C2	^{C1} /C3	Depth or Time	% Max.	Nature	Ra C1/C2	C1/C3	Dur /Choke	Kick	Suct.	Comp.	Sar ple

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AQ	UITA	INE		DAT	E	No.		DAIL	REP	PORT	-		1	ATOO-	6E	LA	ST D	EPTH	-]	WELL	NAME	
COMPA:	IN OF CAN	ADA HD	29	19/74	, +	6	(GEOLO	GY - 3	HOV	VS		421	Fi.	23 :1 5 ^{Hr.}		2625	F:	PO	AR	BEAR	
From	To	Drilling Rate		ONATE	W.UW 15 mia	PORC Type	Grade			4. 3000 A. 90		1999-19 23-1		LITHOL	DGY							
1	ម	⁹ Min/ft		11	12	13	·	5														
ļ																						
2204	2325	1-2	10	13	14			<u>Clay, t</u>	rown/	red,	soft	<u>t, s</u>	slightl	<u>y cal</u>	careous	r Ve	ery	sil	ty,p	last	ic\$;	
								abundar														
2325	2380	3-14	24_	53	80										buff, ite, cr							
2380_	2465	1	10	22	30															· ·····		
		· · · · · · · · ·		<u> </u>				Clay as			<u>111 L</u>	21	tignt_g	Теу,	dolomit	<u>e</u> Di					<u>cign</u>	<u> </u>
2465	2625	3-4	84	95	95						ight	t bi	rown or	grey	, white	. C	rypt	:oxli	n, h	ard,	рог	;
											****				very ha							
								light H	prown	cryp	tox	ln,	very h	ard,	tight;							
			 				- : <u>-</u>	limesto	one bu	ff, c	rear	n, †	fine xl	n, oo	litic,	tig	ht.	har	<u>d.</u>			
			<u> </u>				·															
			<u> </u>				\						<u>ne beco</u> in lim		dolomit	10	- ca	rbo	nate	<u>s 25</u>	-/1-	90
TYPE OF	DRILLING				TYP	E OF BIT	L			ORMA		****										17
1		OIL	SHOWS				1		-L				GAS SH	ows				****				PRO201218."
Depth		1			preseence		· · · · · · · · · · · · · · · · · · ·	Gas	Backgroui	nd			[Ga	is Sho				·		
or Time	Colour	Odour	Mud		Extr. tings	Colour Intensity	26	From	To	%		CI/C3	Depth pr Time	% Max.	Nature		Atio	Dui /Choke	ration Kick	De Suct.	Comp.	Sam- pie
1P	19	20	21	22	23	24	1	27	28	29		31		33	34	_	36		38	39	40	41
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ļ			-	<u>†</u>			-						<u> </u>		<u> </u>					<u> </u>		
25	Oil/Bj	itumen / Flui	d-Heavy-	Pasty-D	ry		1		<u></u>				 	+						+		i
[М	UD			R	EMARKS		******													51
42 D	From	Gain To	661/h	From	Loss To	bbl/h																
v _	43			47	48	49							1									
F _		1																				
NaCi						P	rogram							·								52
% Fuel	— Total		46	Qaily To	otal	50 P	osition at 8 A.	м.														53

FORM 6104

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	UITA	INIE		DAT	E	No.		1	DAILY		ORT	•	2	[DATOO	55	LA	ST D	EPTH	1	NELL	NAME	<u> </u>
	IT OF CAN			28/9/3	74	2 7		4	EOLO					381	F1.	12 : 30нг.	5	220/	Ft.	⁶ PC	LAR	BEA	R
	1 _	Drilling	Å	CONATE		POR	OSIT						<u> </u>										ماريخ ويون الم
From	To	Rate	1 min		15 min	Туре	(Grade								0GY 							
Ľ	8	°Min/ft	10	111	12	13	14	15	·														
	ļ	ļ	·				<u> </u>														- <u>-</u>		
1823	1960	2	79	80	80			<u> </u>	imesto	ne. wi	nite/	buff	. r	<u>ose</u> , f	ine x	ln, tig	ht,	abu	ındar	nt fo	ssil	s;	
			L				_	I	nterca	latior	ns of	cla	y,	brown/	red,	slightl	y s	ilty	/, <u>ca</u>	lcar	eous	,	
	· · · · · · · · · · · · · · · · · · ·							s	oft, w	ith gy	psum					•							
1960	19.80	1	20	33	41			A	s_abov	ve, wit	h_in	terc	ala	tions	of gr	ay, yel	low	, si	lici	ous,	fri	abl	e,
ļ														ontent							_		
1980	2204	1-2	7	14	18			C	lay, b	rown/r	red,	occa	sic	nally	purpl	e, very	so [.]	ft,	slig	htly			
								C	alcare		/ery	silt	y,ç	lastic									
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[<u></u>		,															
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		1		1														_					
																						_	
TYPE OF	DRILLING				TΥ	PE OF BIT			11	AGE/	ORMA	TION											17
		OIL	SHOWS	;]							GAS SH	OWS								
Depth	<u> </u>	1			orescence				Gas	Backgrour	nd					Ga	_	ws (K					
or Time	Colour	Odour	Mud	Direct	<u>Extr.</u> ttinas	Colcur Intensity	26		From	То	%		tio [C1,	Depth or	%	Nature		atio IC1	Dur /Choke	ation Kick	Der Suct.	Comp	Sem. pla
18	19	20	21	22	23	24	1		27	28	29		C1/C3	Time 32	Max.	34	35		37	38	39	40	41
•	<u> </u>				-	1	1															<u> </u>	
								Constant		<u> </u>	┼───-					·							╂───
					-		11	ncreasing Decreasing									+			<u> </u>			<u>†</u>
			+				F	Regularly		<u> </u>			├			+		+			<u> </u>	┣───	+
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25	 Oil/B	itumen/Flu	id-Heavy	v-Pasty-D)rv		-	.700	. <u> </u>	<u> </u>		+		<u> </u>	+		+	+	}			<u> </u>	╂───
			IUD	,			REMA	ARKS	i	<u></u>			1	L		- I		. <u> </u>		l			51
42		Gain			Loss																		
D _	From		bbl/h	From	To	bbl/h																	
V _	43	64	15	47	48	49																	
F	{																						
NaCI _							Progr	am															52
% Fuel _	Total		46	Daily T	otal	50	Positi	ion at 8 A.M	1. Dri	lling	at 2	360	•	From	2320	- dolo	miti	~					53





FORM 6104

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40	UITA	INE		DATE	:	No	<u>).</u>	DAIL	(BEF	ORT	•			-001'A!	E	LA	ST C	EPTH	1	· LL	NAM	:
CONPAN	Y OF CAN	ADA LTD	2	7/9/7	4	2 6		GEOLO					313	FL 1	5:30 Hr.	1 1	848	Ft.	o POI	ARI	REAR	, 1
From	То	Drilling		ONATE		+	ROSITY						***	LITHOL		-						
7	8	Rate	1 min 10	3 min 11	15 min 12	13	Grade	15														
f		°Min∕ft	 																			
1535	1685	1-3	62		72																	
€ <i></i>			_02_	_68_		ļ		White.	<u>cream</u>	, pin	1K;	∠e⊔	low_ora	inge	brick_r	redr	_ha	rd	occas	siona	аЦу]
			<u> </u>	·	<u> </u>			<u>silty</u> ,	argil	laceo	u <u>s_</u>	Li_ms	estone.							·		
1685	1755	2-3	50	62	70			Interc												····		
				02	<u> </u>			_Dominal 	itly:	_Medi	um_h	ouf	fdolo	mitic	. crypt	ocr	ysta	alli	net	nard	r	
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1755	1848	2	79	86	87												• • •					
															talline dant_fo				DcaL	. <u></u> ү		
				1				Interca	latio	ns of	10053	5.0.01	1e	_abun	uant_10	SS1	LS					
												arai	llaceo	us, s	ilty or	sa	ndv	lime	estor			
						· · · · · · · · · · · · · · ·		Anhydr														
				5		. ~~~~~			_h_												·	
TYPE OF	DRILLING			ž	TYF	E OF BIT	-	10	AGE/	ORMA	TION											17
1		OIL	SHOWS						-				GAS SH	ows			*****			مراجع الكمنيون فعما المراجع		
Depth or					rescence			Gas	Backgrour	nd					Ga	s Sho						
Time	Colour	Odour	Mud	irect Cut	Extr. tings	Colour Intensi		From	То	%		tio C1 _{/C3}	Depth or Tune	% Max.	Nature	1	IC1,	Dur /Choke	ation Kick	Dro Suct	Suty Comp.	Sam-
18 .	19	20	21	22	23	24		27	28	29	30		32	33	34	35	+	37	38	39	40	41
															+	+	<u>† </u>					
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							Regularly Irregularly	,		-												
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25	Oil/B	itumen / Flui	d-Heavy	Pasty-Dr	Υ					<u> </u>					1							
							REMARKS	it.	<u>.</u>													51
42 D	From	Gain To I	bbl/h	From	Loss To	bbl/h		H														
v _	43				48	49																
F	_	++																				ļ
NaCI		++	İ				Program						<u> </u>									52
% Fuel	- Total		46	Daily To	otal	50	Position at 8 A	.M.	• <u>-</u>													53

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100	UITA	INIE	1	DATE		No.		DAIL	Y REP	OPT		22		FOOTAG	;F:	LAS	5T D	ертн		WELL	NAME	
	IT OF CAN		1	26/9/	74	² 5		EOLO				and a second	260	F1.	7:30 Hr.	5	151	0 Ft.	⁶ P	OLAR	BEA	R
From	То	Drilling	CARE	ONATE	W.UW	POR	OSITY -												<u> </u>			
Fiom	.i	Rate		3 min		Type	Grade	······································					•••••	LITHOL	J(5 Y							
	<u>د</u>	'Min/ft	10	111	12	13	14 1	5														
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1250	1405	11	5	16										reddisł	n, silt	y to	sa	ndy	plas	tic	clay	·]
				}			-	Traces	of che	rt ar	nd a	n'ny	drite									
1405	1450	1-2	48	64	70			Red-bro	wn arc	ilace	eous	an	d/or c	lolomit	tic, sa	ndy (or	silt	y, c	rypt	0-	
l								rystal	line,	Hard	1, 0	cca	ssiona	si soft	: limes	tone						
	1				 		11-															
1450	1510	1-3	80	82	83		1	White,	pink,	vella	-w-o	ran	ae, br	ick-re	ed, occi	assi	ona	l si	lty	argi	lace	ous
		· · · · · · · · · · · · · · · · · · ·	- <u></u>	+	<u> </u>			limesto														
	<u>+</u>		<u> </u>	+				Interca			.h ; +											}
i	·	}	+	<u>+</u>				rur en de			mic	e u	OCOMIC	.e								
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	ł			+		<u> </u>				-												
		J					-ll-	1	6 005/								~~~~			4/05	•	17
TTPE OF	DRILLING	: 			1 1)	PE OF BIT			AGEN	-URIVIA		DEV			to 140	5 / 01	112	BT	rom	1405		
		OIL	SHOWS			·							GAS SI	HOWS								
Depth or	Colour	Odour		Fluc	Extr.	Colour	26	Gas	Backgroun	nd	I Ra	otio	Depth		Gi	IS Show			Ation	De	-sity	
Time	<u> </u>		Mud	Cut	tings	Intensity		From	То	%		^{C1} /C3		% Max.	Nature			/Choke		Suct	Comp	Sam- pie
18	19	20	21	22	23	74		27	28	29	30		32	33	34		36		38	39	40	41
l	1					: ;			- 	+	+		<u> </u>			+			†			
l				1			Constant	·		+	+	<u> </u>			+				<u> </u>	+		
							Increasing Decreasing		+	+	+	<u>├</u>			1	+1				1		
				1			Regularly		+	+	+				+					1		
	1						Irregularly					<u> </u>						<u> </u>	<u> </u>	+	1	
				-	1	1	-1		- 	+			<u> </u>		+			<u> </u>	<u> </u>		++	
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25	Oil/P	litumen/Elu	id-Heavy	Pastv-D	rv		1		1	1			1			1 1		1	1	1		
25	Oil/B	litumen/Flu		-Pasty-D	ry		REMARKS]		L	1					I	<u> </u>		<u></u>	51
	Oil/e	N	id-Heavy	-Pasty-D			REMARKS]		<u> </u>	l		<u> </u>		L	I	<u> </u>	<u> </u>	<u></u>	51
	Oil/E	N Gain	מטו	From	ry Loss To		REMARKS		1]		<u> </u>	1				L	I	<u>(</u>	<u></u>	┶╌╌┷	51
42		M Gain To			Loss		REMARKS		<u> </u>	1		<u> </u>	<u> </u>		<u> </u>			<u>I</u>	L	_	<u></u>	51
42	From	M Gain To	IUD bbl/h	From	Loss To	bbl/h	REMARKS					<u>I</u>	l	<u> </u>	<u> </u>	_		<u>I</u>	L	<u> </u>	<u></u>	51
42	From	M Gain To	IUD bbl/h	From	Loss To	bbl/h 49	REMARKS Program			1		<u> </u>	J					.	L		<u></u>	51









FCRM: 6104

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AG		NNE	1	DAT		2	<u>o.</u>		DAIL					3	FOOTAC		15		<u>E?TH</u>	6			
CON-A	OF CAT	GADA LTD		25/9/7		4		(GEOLO	GY - \$	SHOV	VS		1250	Ft.	5:30 Hr	·	114() Ft.	P	DLAR	BEA	R
From	Τυ	Drilling		BUNAT			ROSITY			un					LITHOL	DGY							
7	8	Rate Min/ft		11	15 min 12	Type 13	14	rade 1	5								'						
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TYPE OF	DRILLING		<u></u>		, TY	PE OF BI	 T		1	G AGE/	FORMA	TION											17
			LSHOW							<u> </u>				GAS SH	OINS								
Depth	1		<u>- 1</u>		intescenc				Gas	Backgrou	nd			1 043.34		G	as Sho	WS (K	icks	·			
or	Colour	Odour		Direct	j Extr.	Colou			From	То	?6	R	atio	Depth	%	1	R	atio	Dur	ation	+	nsity	Sam
18	19	20	Mud 21	22	ittings 23	Intens 24						;	C1/C3	Time	Max.	Nature	_	2 ^{C1} /C3		К юск 38	Suct.	Comp.	510
 									27	28	29	30	31	32	33	34	35	36	37		36	40	41
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<u> </u>	01//1	Bitumen/Fli		y•rasty•L	Jrγ			DVS					<u> </u>	<u> </u>		1			L	<u> </u>	1	1	51
12		Gain	MUD	r	Loss		REMA	с 1 .0															51
12 D	From	-	bbl/h	From	To	bbl/h																	
·	43		45	47	48	49																	
F_				1	1																		
NaCI _					1	1	Progra	m											•				52
% Fuel _	Total		46	Daily 7	rotal	50	Positio	on at 8 A			<u> </u>					<u></u>							53

FORM	6104

	UITA	1515		DAT	E	. No.		DAIL	Y RE	- DR1	•		F	UDTAG	5	LA	ST D	EPTH]	NELL	NAM	
	VY OF CAN		1 2	4/9/7	4	2 3	5	EOLO				33 1	3 417	71 1):45 Hr.	1	,14() Ft.	Po	lar I	Bear	.
From	То	Drilling		BONATE		POR								u TU O L	· · · · · · · · · · · · · · · · · · ·	<u> </u>				-		
7	8	Rate	1 min 10	3 min	15 min 12	Type 13	Grade							LITHOLO	JG Y							
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TYPE OF	DRILLING				TY	PE OF BIT		1	⁶ AGE/	FORMA	TION											17
	veile veile v Rott - Eng	01	LSHOWS	;									GAS SH	ows								
Depth	Γ	1			orescence			Gas	Backgrou	nd					Ga		ws (K				<u></u>	r
or Time	Colour	Odour	Muc	Direct Cu	Extr.	Colour Intensity	26	From	То	%		itio	Depth or Time	% Max.	Nature		101/00	/Choke	ation Kick	Der Suct.	Comp.	Szm- pie
18	19	20	21	22	23	24		27	28	29		31	32	33	34	35		37	38	39	40	41
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25	Oil/B	itumen/Fl	uid-Heav	y-Pasty-D	iry				1				1		1							
			MUD			F	EMARKS								5 6							51
42		Gain			Loss	1																
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р У _		То			То	49	Program		<u> </u>						N. B. 14							52

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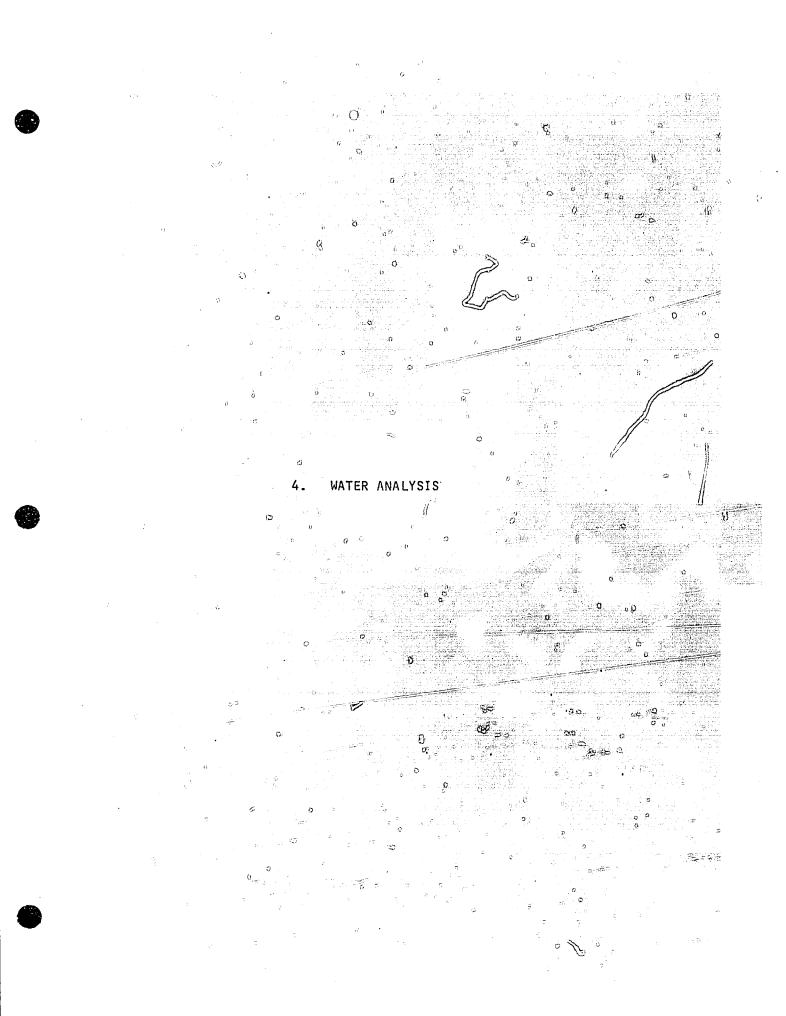
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FORM 6104

100	UITA	INE		DAT	E	No.	1	DAIL	Y REP	ORT	- <u>-</u>		i ²	OGIAC	F	1.2	ST D	SPTH	y y	NELL	NAME	
	AY OF CAN		B 1	23/9/	74	2		SEOLO					· 75	Ft. 4	: 45 Hr.	7	23	Ft.	C Pol	lar E	Bear	
Fion	Το	Drilling	CAR	BONAT	W.UW	POR	OSITY							i THOL	مينا محيمين التين محمدي محران							100 M
1	8	Rate		1 1 3 min 111	15 min 12	Type 13	Grade	5														
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ļ		011	SHOW										GAS SH	JWS								
Depth or	Colour	Odour		Flu Direct	Urescenc Extr.		26	Gas	Backgroun	1 1	1 9;	itio	Depth	5	1	_	ws (K		ation	Dei	- TSPTY	Sem-
7 inie 18	1		Mut	I Cu	ttings	Intensity		From	To	25	C1,	^{C1} /C3	or Time	Max.	Nature	C1/C	, C'/C.	/Chose	Kick	Suct	Comp.	pla
(18 	19	20		22	23	24		27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
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25	Oil/B	itumen/Fli	uid-Heav	y-Pasty-C)ry					1												
			MUD			1	REMARKS															51
12		Gain			Loss							معرف س	• / • . • • •		<u>n</u> 1							
D _ V	From	T0 44	bul/h 45	From	To 48	bbl/h 49				7 4 1			و به . ۱۹۹۹ - ۲۰۱۹ - ۱۹۹۹ ۱۹۹۹ - ۲۰۰۹ - ۱۹۹۹ - ۱۹۹۹									
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NaCI _		. L	L	[┛┓┓┓┓	Program				<u></u>		,									
% Fuel _	Total		46	Daily 7	"otal	50	Position at 8 A	м. D	rilling	, out	cem	ent.										5.

FORM 6104

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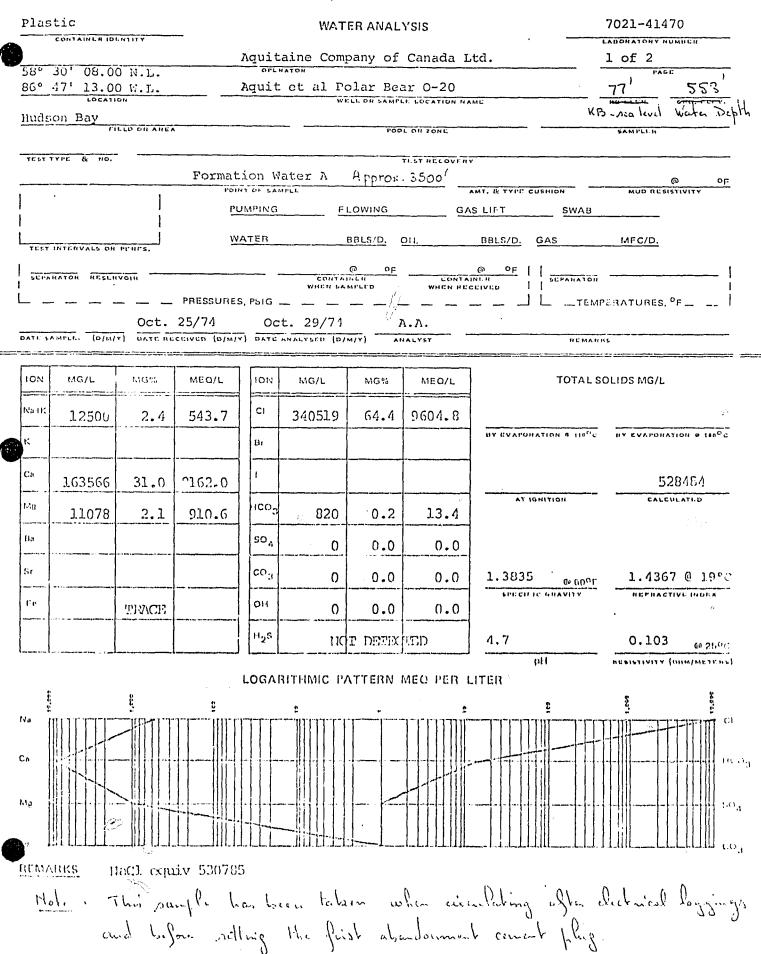


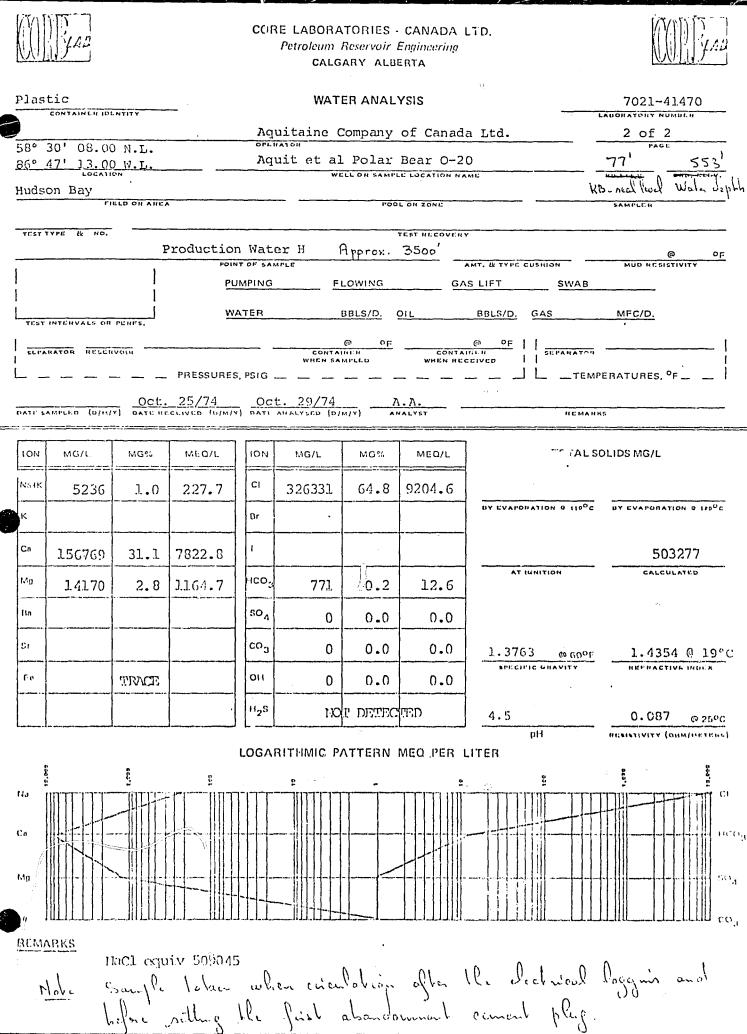
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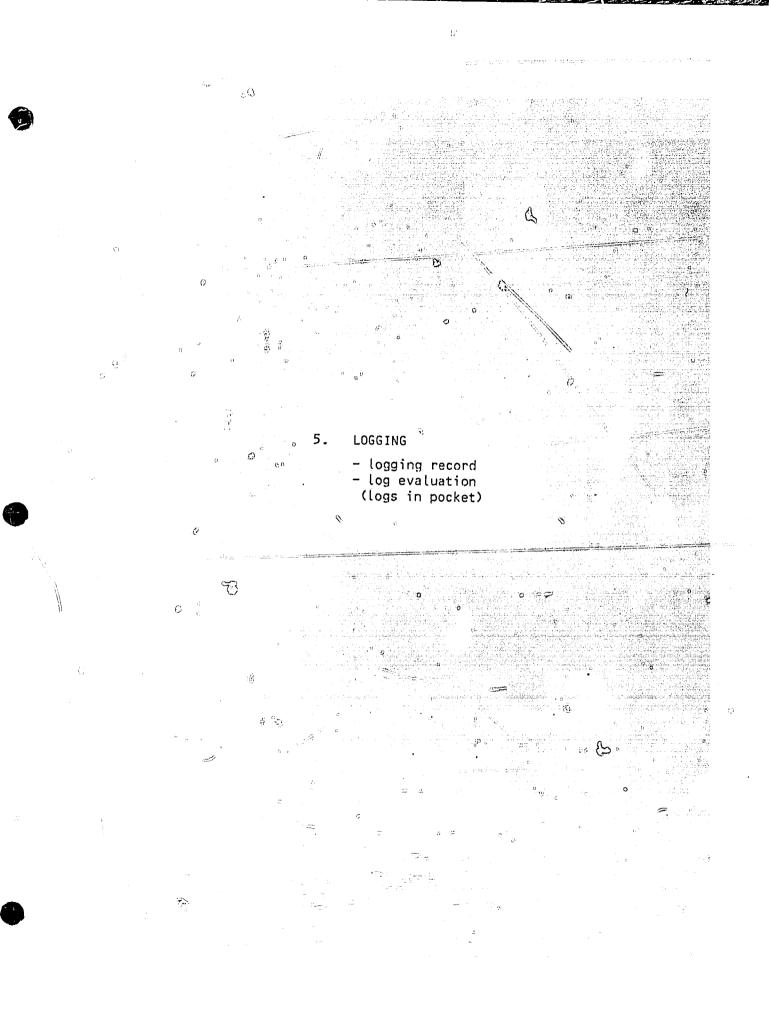
CORE LABORATORIES - CANADA LTD. Petroleum Reservoir Engineering

CALGARY ALBERTA









LOGGING RECORD



TYPE (ABBREVIATE)	DATE	DEPTH		- RUN No.	REMARKS (LOGGING CO. ETC.)
		FROM	TO		
DLL	Oct. 1/74	1245	3102	1	Schlumberger (Frontier)
	Oct 14/74	3100	5156	2.	
FDC-CNL	Oct. 1/74	500	3106	1	
	Oct 14/74	3078	5167	2	
SLCGR	Oct. 1/74	1100	3106	1	
	Oct 14/74	3078	5166	2	
		- · - ····			
HDT	Oct. 1/74	1230	3112	1	
	Oct 14/74	3078	5168	2	£
Formation Tester	Oct 15/74	4199	4199	1	
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MEMORANDUM	М	Ε	М	0	R	А	Ν	D	U	М
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TO:	M.E. Hriskevich	DATE: November 6, 1974
FROM:	A.J. Brinker	FILE: N.F.
RE:	Aquitaine et al Polar Bear	C-11 Log Evaluation
Well D	Data:	2000
	Kelly Bushing:	77'
	Kelly Bushing to Sea Floor:	630.'
•	Casing:	30" to 710'
		20" to 1,227'
		13 3/8" to 3,081'
	Open Hole:	12¼" to 5,170'
	Logs Run:	Run 1 at 3,105'
	ి చి. ది	DLL, CNL-FDC, BHC-GR, HDT
	e D	Run 2 at 5,170'
		DLL, CNL-FDC, BHC-GR, HDT, FIT, SRS

An evaluation of the logs showing porosity, water saturation and lithology in the AQUITAINE ET AL POLAR BEAR C-11 well is included herein. £

1,227' - 1,384'	- hole is too large for logging tools to indicate \Box
	alithology.
1,384' - 1,446'	primarily shale possibly with some sand.
1,446' - 1,470'	sand grading into limestone and becoming shaley
	near the bottom of the interval
	some porosity, approximately 3% is indicated in
	the interval 1,450' - 58'
	water saturation 100%
1,470' - 1,480'	shale

Page 2.	0 1	
1,480' - 1,486'	- dolomite with 7% porosity and 100% water saturation	
1,485' - 1,495'	- limestone	
1,495' - 1,506'	- shale	
1,506' - 1,520'	- limestone, shale, gypsum	
1,520' - 1,550'	- limestone and shale	
1,550' - 1,590'	- limestone and shale	
1,590' - 1,690'	- limestone shale dolomite with gypsum indicated	
	at 1,661' and 1,668' and 1,684'	
1,690' - 1,695'	- dense dolomite	
1,695' - 1,730'	- porous limestone averaging 10% with 100% water	•
	saturation	
1,730' - 1,782'	- limestone with shale	
1,782' - 1,808'	- porous limestone averaging 8% with 100% water	-5-
	saturation	
1,808' - 1,875'	- shaley limestone	~
1,808' - 1,875' 1,875' - 1,970'	shaley limestoneshaley dolomite	
1,875' - 1,970'	- shaley dolomite	
1,875' - 1,970' 1,970' - 2,323'	 shaley dolomite primarily shale dolomite 	
1,875' - 1,970' 1,970' - 2,323' 2,323' - 2,337'	 shaley dolomite primarily shale dolomite shale 	
1,875' - 1,970' 1,970' - 2,323' 2,323' - 2,337' 2,337' - 2,380'	 shaley dolomite primarily shale dolomite shale salt 	
1,875' - 1,970' 1,970' - 2,323' 2,323' - 2,337' 2,337' - 2,380' 2,380' - 2,466'	 shaley dolomite primarily shale dolomite shale salt 	
1,875' - 1,970' 1,970' - 2,323' 2,323' - 2,337' 2,337' - 2,380' 2,380' - 2,466' 2,466' - 2,528'	 shaley dolomite primarily shale dolomite shale salt primarily dolomite with some 5% porosity Sw = 100% 	
1,875' - 1,970' 1,970' - 2,323' 2,323' - 2,337' 2,337' - 2,380' 2,380' - 2,466' 2,466' - 2,528' 2,528' - 2,660'	 shaley dolomite primarily shale dolomite shale salt primarily dolomite with some 5% porosity Sw = 100% gypsum 	
1,875' - 1,970' 1,970' - 2,323' 2,323' - 2,337' 2,337' - 2,380' 2,380' - 2,466' 2,466' - 2,528' 2,528' - 2,660' 2,660' - 2,674'	 shaley dolomite primarily shale dolomite shale salt primarily dolomite with some 5% porosity Sw = 100% gypsum dolomite with some shale shale 	
1,875' - 1,970' 1,970' - 2,323' 2,323' - 2,337' 2,337' - 2,380' 2,380' - 2,466' 2,466' - 2,528' 2,528' - 2,660' 2,660' - 2,674' 2,694' - 2,726'	 shaley dolomite primarily shale dolomite shale salt primarily dolomite with some 5% porosity Sw = 100% gypsum dolomite with some shale shale 	
1,875' - 1,970' 1,970' - 2,323' 2,323' - 2,337' 2,337' - 2,380' 2,380' - 2,466' 2,466' - 2,528' 2,528' - 2,660' 2,660' - 2,674' 2,694' - 2,726' 2,726' - 2 840'	 shaley dolomite primarily shale dolomite shale salt primarily dolomite with some 5% porosity Sw = 100% gypsum dolomite with some shale shale shale salt 	
1,875' - 1,970' 1,970' - 2,323' 2,323' - 2,337' 2,337' - 2,380' 2,380' - 2,466' 2,466' - 2,528' 2,528' - 2,660' 2,660' - 2,674' 2,694' - 2,726' 2,726' - 2 840' 2,840' - 2,900'	 shaley dolomite primarily shale dolomite shale salt primarily dolomite with some 5% porosity Sw = 100% gypsum dolomite with some shale shale shale salt alt 	
1,875' - 1,970' 1,970' - 2,323' 2,323' - 2,337' 2,337' - 2,380' 2,380' - 2,466' 2,466' - 2,528' 2,528' - 2,660' 2,660' - 2,674' 2,694' - 2,726' 2,726' - 2,840' 2,840' - 2,900' 2,900' - 3,034'	 shaley dolomite primarily shale dolomite shale salt primarily dolomite with some 5% porosity Sw = 100% gypsum dolomite with some shale shale shale salt salt with radioactive material salt limestone 	

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Page 3.	
3,076' - 3,110'	- large hole
3,110' - 3,140'	- dolomite with gypsum
3,140' - 3,190'	- dense dolomite
3,190' - 3,204'	– gypsum
- 3,250'	- dolomite
3,250' - 3,274'	- dolumtie with an average of 3% porosity Sw = 100
3,274' - 3,281'	- gypsum
3,281' - 3,446'	- dolomite
3,446' - 3,464'	- dolomite with up to 5% porosity Sw = 100%
3,464' - 3,468'	- gypsum
3,468' - 3,500'	- dolomite with increasing amount of shale
3,500' - 3,804'	- dense dolomite
	- on indication of porosity, 3,540' may be due to
	gypsum
3,804' - 3,809'	- gypsum
3,809' - 3,820'	- dolomite with some shale and possibly some gypsum
3,820' - 3,853'	- dolomite averaging 3% porosity with a minimum
	water saturation of 50%.
3,853' - 3,880'	- dense dolomite
3,880 - 3,906'	- dense limestone
3,906' - 3,912'	- anhydrite
3,912' - 3,915'	- porous dolomite (5%) or gypsum
3,925' - 3,920'	- anhydrite "
3,920' - 3,927'	- dense dolomite
3,927' - 3,938'	- anhydrite
3,938' - 3,948'	- dense limestone grading into dense dolomite
3,948' - 3,966'	- anhydrite grading into dolomite and gypsum

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4,006' - 4,050' - limey dolomite, dense	
4,050' - 4,070' - dolomite	
4,070' - 4,116' - limestone, dense .	
4,116' - 4,128' - anhydrite	
4,128' - 4,155' - dolomite with some gypsum o	
4,155' - 4,164! - dolomite with 4% porosity Sw = 100%	
4,164' - 4,170' - limestone dense	·** (7.277).
4,170' - 4,176' - dolomite with 3% porosity Sw = 100%	. ·
4,176' - 4,186' - Jense limestone	
4,186' - 4,230' - gypsum	
4,230' - 4,296' - limestone, dense	
4,296' - 4,306' - gypsum	
4,306' - 4,356' - salt	
4,356' - 4,378' - gypsum	
4,378' - 4,382' - dolomite	
4,382' - 4,386' - gypsum	
4,386' - 4,425' - dolomite with 2-3% porosity Sw = 100%	
4,425' - 4,235' - anhydrite	
4,435' - 4,439' - dolomite dense	
4,439' - 4,458' - gypsum	
4,458' - 4,470' - dolomite 1% porosity Sw = 100%	
4,470' - 4,492' dolomite with gypsum and anhydrite	
4,492° - 4,514' - dolomite, dense	
4,514' - 4,548' - anhydrite	
4,548' - 4,558' - gypsum	
4,558' - 4,580' - dolomite dense	
4,580' - 4,592' - shale	
4,592' - 4,604' - limestone grading to dolomite	

Page 5.

4,604' -	4,608'	- anhydrite	
4,608' -	68 '	dolomite, dense	
4,668' -	4,868'	- limestone, dolomite,	dense
4,868' -	4,910'	- gypsum	
4,910' -	5,124'	- limestone, dense	≍ ⊮″
5,124' -	5,138'	- shale	C.
5,138' -	5,150'	- sand with 1-2% porosi	ty and Sw

40%

VBMcKeown/sgb

SOCIETE NATIONALE DES PETROLES D'AQUITAINE DEPARTMENT OF ENERGY AND MINES C. R. P. - GEOLOGY

AQUITAINE & AL. POLAR BEAR C-11 WELL (HUDSON BAY, CANADA) GEOLOGICAL AND GEOCHEMICAL STUDY

Note R/GEO n° 57/75

4 March, 1975

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OTHER DEPARTURAL

Authors :

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R. MAGALHAES-GOMES

MAIN RESULTS

The biostratigraphic attributions very well fit with lithostratigraphy and have been synthetized in Figure 2.

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The depositional environment is constantly restricted but apparently unfavourable to organic matter accumulations, except for scarce horizons in the Kenogami Formation, where some bituminous deposits have been noticed, associated with stromatoporoidal dolomites.

The source-rock potential must be considered as low in the whole section, due to the general paucity of organic matter contents, as well as to the very low maturation grade.

The present report is a tentative synthesis of all the stratigraphic, petrographic, mineralogical and geochemical analyses made by the geological staff of the S.N.P.A. Research Centre on the Polar Bear well. The preliminary results exposed in the note R/GEO nr. 28/75 of January 24th, 1975 have been thus completed and updated.

I. / BIOSTRATIGRAPHY

The biostratigraphical results have been obtained both from palynoplanktoiogy and micropaleontology (Ostracodes and Conodonts); they have been summarized in Figure 2.

1.1. PALYNOPLANKTOLOGY

Fourty one composite samples have been studied between 1,260' and 5,170' by various palynoplanktological techniques (Spores, Acritarchs, Chitinozoans and Scolecodonts). The spacing between each sample varies between 100' and 200'.

The investigated section has been found rather irregularly fossiliferous. Three main intervals have been distinguished, roughly corresponding with the Devonian, the Silurian and the Ordovician :

1/ The upper part of the section is rather poor and sporadically contains microorganisms which are either very common, or long-tanging or facies controlled (e.g. Tasmanaceae). Only very scarce specimens of some species of Spores, Acritarchs and Chitinozoans may provide a relatively accurate datation. Scolecodonts are biostratigraphically meaningless.

2/ The middle part of the section is very poor in palynoplanktological microfossils, and often barren. Very scarce long-ranging species are present in some horizons.

3/ The lower part of this well is conversely very rich : microfossils are numerous, very typical and provide precise stratigraphical attributions. This is the case for the three major groups : Acritarchs, Chitinozoans and Scolecodonts. The identified assemblages are very close to those previously described in our note (R/GEO nr. 354/70) of December 1970 and related to Canada and Northern U.S. The scale used in the present report is accordingly the same. In addition, the state of preservation of these microorganisms is generally very good. On the basis of palynoplanktological data, the well section may be subdivided in 7 main intervals ranging from the Upper-Middle Devonian to the Upper-Middle Ordovician. Five of these intervals are relatively well-defined, the two others, located within the Silurian, are imprecise or stratigraphically unsignificant, as it is always the case in this basin.

The different intervals are hereafter described by their palynoplanktological contents and assigned an assumed age.

1.1.1. 1,260' - 1,960'

This first upper interval only contains Acritarchs and principally Tasmanaceous types as Hy 118, Hy 119, Hy 127, Hy 151. A unique interesting species is present :

Hy 45 - Polyedrixium decorum,

the range of which is Middle to Upper Devonian in Northern America.

Assumed age : "Upper to Middle Devonian" (= 20 to 26 C.UP-PA of our scale)

1.1.2. 2,000' - 3,060'

Various microfossils occur. The most interesting for stratigraphy are the following :

Acritarchs_:

Hy 45 - Polyedrixium decorum

(as in the overlying interval)

Hy 51 - Evittia sp.

Hy 53 - Navifusa bacillum

and a very particular Tasmanaceae :

Hy 361

Spores :

Sr 21 - Densosporites sp.

Sr 53 - Hymenozonotriletes longus

Sr 119 - Verrucosisporites premnus

- Sr 129 Geminospora lemurata
- Sr 130 Hystrichosporites porrectus

Sr 214 - Grandispora sp.

Chitinozoans :

Cz 199 - Eisenackitina castor

Cz 205 - Angochitina devonica

Scolecodonts_:

The occurring species are stratigraphically unsignificant because of their too long range.

In this interval we can successively distinguish the C.UP-PA units 17-19, 19/20 and 20.

Assumed age : "Middle Devonian"

1.1.3. 3,060' - 3,160'

This is a very particular composite sample containing very significant Chitinozoans.

A Devonian type :

Cz 205 - Angochitina devonica

is mixed with another type ranging up to the Silurian :

Cz 333 - Cyathochitina cf. dispars

(C.UP-PA : 13-15/16-19)

Therefore we interprete this sample as taken at the Devonian/ Silurian limit.

Assumed age : "Devonian/Silurian limit"

1.1.4. 3,180' - 3,360'

This interval is very poor. It is possible to mention the presence of :

an Acritarch :

Hy 361 (particular Tasmanaceae)

and Chitinozoan :

Cz 333 - Cysthochitins cf. dispars

which has been found in the above horizon. Owing to the logical unit succession, it may be concluded that this sequence corresponds to the C.UP-PA units 13-15.

Assumed age : "Lower Silurian"

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1.1.5. 3,360' - 3,660'

Barren.

Assumed age : Undetermined.

1.1.6. 3,660' - 4,410'

All microfossils present are long-ranging and, thus, of poor stratigraphical usefulness.

Acritarchs:

There are only common Tasmanaceae.

Chitinozoans :

Cz 39a - Conochitina gordonensis

Cz 39b - Conochitina brevis

Cz 333 - Cyathochitina cf. dispars

- Cz 343 Conochitina acuminata
- Cz 349 Conochitina probocifera

Scolecodonts :

Very common, but devoid of stratigraphical significance.

The all C.UP-PA comprised between 5 and 14 are possible.

Assumed age : "Lower Silurian to Ordovician"

1.1.7. 4,460' - 5,130'/5,170'

This is the richest interval containing a very abundant and various assemblage of Acritarchs, Chitinozoens and Scolecodonts. The major species or types are :

Acritarchs :

- Hy 11 Leiofusa cf. estrecha
- Hy 78 Dasydiacrodium sp.
- Hy 83 Peteinosphaeridium bergstromii
- Hy 87 Baltisphaeridium saharicum
- Hy 101 Baltisphaeridium sp.

Hy 163

- Hy 197 Polygonium sp.
- Hy 318 Veryhachium sp.
- Hy 319 Polygonium sp.
- Hy 320 Baltisphaeridium sp.

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Chitinozoans :

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Cz 35 - Cyathochitina calix

Cz 39c - Conochitina micracantha

Cz 94 - Hoegisphaera complanata

Cz.311 - Desmochitina minor

Cz 317 - Conochitina cactedea

Cz 318 - Conochitina micracantha micracantha

- o Cz 325 Hercochitina sp.
 - Cz 326 Hercochitina sp.
 - Cz 327 Hercochitina sp.
 - Cz 308 Conochitina sp.
 - Cz 351 Desmochitina sp.

Scolecodonts :

- D 39 Palecenonites angiportus
- D 125 Diopatraites sulcatus
- D 161
- D 201
- D 218 Staurocephalites sp.

The C.UP-PA units 3-6, 4-6, 5-6, 5-7 are successively involved.

Assumed age : "Upper to Middle Ordovician"

(possible "Upper Caradocian to Ashgillian")

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1.1.8. Comparison with lithostratigraphy

If we compare the palynostratigraphical results with lithostratigraphy, we can state that :

- Units C and B correspond to our "Upper to Middle Devonian".
- Unit A and Kenegami are close to "Middle Devonian".
- The limit between Kenogami Formation and Ekwan Formation is located within our composite sample 3,060'-3,160', attributed to the Devonian/ Silurian limit.
- The Ekwan Formation corresponds to Lower Silurian, as determined by palynoplanktology.
- The Severn Formation is not accurately defined by means of palynoplanktology (Lower Silurian to Ordovician). It is probably Silurian in age but this attribution cannot be ascertained by our technique

- The common attributions of the Churchill River and Bad Cache Rapids Formations fit with the identified Upper to Middle Ordovician.

Therefore, there is a total agreement between lithostratigraphy and palynostratigraphy.

1.1.9. Comparison with microfaunal results

The results are complementary in the Silurian and very close in the Ordovician. No discrepancy has been noticed.

1.1.10. Comparison with the nearest wells

1/ <u>Narwhal 1 - N 58</u>

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- a. The Devonian interval determined in Polar Bear C-11 seems to be
 more complete than in Narwhal 1 N 58. It is also better defined.
 But it can be assumed that only the Middle Devonian is present in
 both wells. The occurrence of Lower Devonian is questionable.
- b. The Silurian has been identified in Polar Bear C-11 whereas there is no evidence in Narwhal 1 - N 58.
- c. The Ordovician (as palynologically determined) is not directly comparable. The interval corresponding to units 7 and 7/8 C.UP-PA ("Ashgillian"), 2,570' to 3,260' in Narwhal 1 - N 58, seems to be absent in Polar Bear C-11.

Below, the palynological assemblages are very similar in both wells.

2/ Walrus A-71

a. The upper part of the Devonian is better defined and perhaps more complete in Walrus A-71 than in Polar Bear C-11 because in the first well, it is possible to distinguish the separate C.UP-PA 22-23, 22-24 and 25-26. In the second one, these units are grouped and less precise : 20-23 and 20-26.

However, this Devonian part may be very comparable in the two wells :

Walrus A-71 1,100'-2,684' Polar Bear C-11 1,260'-1,960' The Middle Devonian (C.UP-PA 20, 19/20 and 17-19) is very similar in both cases :

Walrus A-71	Polar Bear C-11
2,715'-3,450' (?)	2,000'-3,060'

Between 3,450' and 3,730', an interval lacking in Poler Bear has been found in Walrus.

b. Devonian/Silurian limit

A good composite sample is representative of this limit in Polar Bear C-11 (3,060'-3,160'), and a similar one was found in Walrus A-71 (3,800'-3,921'), according to our previous results.

c. Silurian and Ordovician

On the basis of our palynoplanktological data and hypothesis, these two systems were not recognized in Walrus A-71 whereas they are very well represented in Polar Bear C-11. The Ordovician has been particularly clearly identified.

1.2. MICROPALEONTOLOGY (CONODONTS AND OSTRACODS CHIEFLY)

In the same way as in the Narwhal 1 N 58 well, composite samples were taken every 50' for acid treatment in Polar Bear C-11 ; 26 intervals were therefore analyzed within the 3,100'-5,170' interval.

The zonation obtained in the Ordovician/Silurian can be compared to that of the Narwhal 1 N 58 well, although the biozone SC 6equivalent (Lower Attawapiskat and "sole" of this formation) could not be identified. Plate II gives the correlation derived from "extracted microfauna" between the 6 boreholes drilled, up to now, in Hudson Bay.

1.2.1. MAIN RESULTS

1.2.1.1. Silurian

- Interval 3,120' - 3,360!

The three samples taken in this interval have been found barren.

- Interval 3,390' - 3,450'

A Conodont of the "simple cone" type gives the first age indication for the Silurian, going down the well.

- Biozone SC_5 (red code)

The presence of this biozone has been recognized between 3,480' and 3,720'. Certain morpho-types of Conodonts included in it have been found in the Narwhal 1 N 58 and Polar Bear C-11 wells exclusively, and they establish a precise correlation between the 2,550'-2,600' and 3,480'-3,540' intervals of these boreholes respectively.

- Biozone SC 4 (green code)

Conodonts characteristic of this biozone have been identified between 3,750' and 4,170'. We also notice the presence of some Ostracodes.

1.2.1.2. Ordovician (+ Ordovician/Silurian limit)

- Biozone OC 3 (mauve code)

The presence of index species of this zone has been observed between 4,500' and 4,560'.

- From Concdont assemblages, the <u>Ordovician/Silurian limit</u> can be situated between 4,500' and 4,560'. On the basis of lithological information, it would be located more precisely between 4,300' and 4,500'. By correlation with the first evidence of Ordovician in Narwhal at 3,260', it can be assumed that the limit would be actually situated at 4,300' in Polar Bear (see Plate II).

- Biozone OC 2b (brown code)

This zone has been identified between 4,770' and 4,830'.

- Biozone OC_2a (mauve_striped_code)_

This biozone ranges between 4,860' and 4,920'.

- Biozone OC 1

In spite of the absence of characteristic Conodonts, this biozone can be inferred from the biofacies (phosphate organisms) observed between 4,950' and 5,100'.

1.2.2. REMARKS

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From the study of cuttings, it seems that the thickness of the Ordovician in Polar Bear is inferior by about 200' to that of Narwhal, and superior by about 100' and 200' respectively to that of Houston Comeault and Pen Island/Kaskattama wells.

The non-identification of biozones SC 6 and SC 7 at Polar Bear does not substantiate a reliable comparison of the thicknesses of the Silurian in the Bay.

2. / LITHOLOGICAL AND MINERALOGICAL DATA (P1. IV) /

The stratigraphical terminology used hereafter is identical to that of the well log; furthermore the lithological breaks very well fit with the biostratigraphical limits, as shown in Figure 2.

2.1. UNIT C (1,260'-1,385')

This unit is chiefly characterized by red silty claystones, with gypsum or anhydrite and minor carbonates. Clay minerals are composed of poorly crystallized illite with minor chlorite.

2.2. UNIT B (1,385°-1,980')

This interval is richer in carbonates (mostly microcrystalline limestones) than the overlying one, but argillaceous and evaporitic interbeds are still present. Illite is dominant and better crystallized than above in the clay mineral assemblage.

2.3. UNIT A (1,980'-2,380')

The increase in the insoluble residue in HCl reflects the dominance of argillaceous materials in this interval; dolomite prevails within the carbonate fraction. In addition, caved limestones from the above deposits have been observed in cuttings. No major change has to be noted in the clay mineral composition.

2.4. KENOGAMI FORMATION str. S. (2,380'-3,070') POLAR BEAR FM

This formation is dominated by calcareous dolomites associated with evaporites. Bitumen concentrations have been noticed in stromatoporoid carbonates between 2,560' and 2,680'. A slight increase in chlorite proportion can be mentioned in the clay mineral assemblage.

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This formation is essentially composed of pure dolomite with very minor cryptocrystalline silica. The poorly crystallized clay fraction is dominated by illific minerals associated with some chloritz.

2.6. <u>SEVERN FORMATION</u> (3,485'-4,308')

Two parts can be distinguished within this formation : calcite prevails over dolomite in the upper one (down to 3,780'), whereas dolomite is dominant and associated with anhydrite in the lower one ; in addition, pellets are frequent in this lower part.

The clay fraction is exclusively composed of illitic minerals but very poorly crystallized in the lower interval.

2.7. CHURCHILL RIVER FORMATION (4,308'-4,915')

No striking change has been observed in the mineralogical composition, except for a relative decrease in the proportions of evaporites and dolomite downward (however dolomite is again dominant at the base). Illitic minerals, including a fair proportion of mixed-layered ones, are the components of the clay fraction.

2.8. BAD CACHE RAPIDS FORMATION (4,915'-5,140')

Microbrecciated limestones, locally bioclastic, are the major facies, associated with microcrystalline and slightly dolomitic limestones. The basal part of the formation is constituted of a fine- to coarse-grained sandstone overlying green-grey soft shales which rest on the Precambrian basement. No change has to be noted in the clay mineral assemblage.

3. / MICROFACIES OBSERVATIONS

The observed materials are generally devoid of significant elements; they chiefly involve dolo- and calcimicrites or microsparites frequantly associated with anhydrite or salt. Some bioclastic or pelletoidal horizons also occur but they do not support valuable microfacies correlations between Polar Bear and the previously studied wells of Hudson Bay (Pen 1, Kaskattama 1, Walrus A-71 and Narwhal South N-58).

MINERAL GEOCHEMISTRY

4.1. BORON AND PALEOSALINITY (P1. IV)

Boron concentrations indicate an "ypersaline environment throughout the section, except in the uppermost "Unit C", where they are closer to normal marine ones, probably due to an increase in freshwater inflow. The hypersalinity is particularly marked in the lower part of the section (up to the upper Severn Formation).

4.2. STATISTICAL STUDY OF MAJOR AND TRACE ELEMENTS

The records of trace and major element concentrations have been processed by factor analysis, in order to find out the significant geochemical associations. With regard to the relatively low number of samples and to the similar behaviour of these elements in the Polar Bear and Narwhal South wells, the sets of values from these two wells have been processed together, because this attenuates the influence of analytical fluctuations and favours comparisons between the two well sections. Four major factors have been displayed by this statistical analysis, as shown in Figure 3.

<u>Factor 1</u>, which represents over 30 % of the total variance, is a dilution one, opposing silica and organic carbon to lithophile and "siderophile" elements. These ones are particularly enriched in the Devonian, whereas the factor scores regularly decrease from base to top in the Ordovician-Silurian interval : this may indicate that the continental supply was minimal in the uppermost Severn and in the Ekwan Formation.

<u>Factor 2</u> clearly reflects an organophile association principally including organic carbon, loss at ignition, molybdenum and copper. It means that the organic matter was deposited in a reducing environment enabling the formation of organo-metallic complexes. This factor is evidenced by Figure 4 and its variations are represented in Plate V, showing that organophile concentrations particularly occur in the Lower Severn Formation, in the Bad Cache Rapids Formation and, to a lesser extent, in the Churchill Formation. These concentrations seem to be principally associated with pelletoidal facies. <u>Factor 3</u> is a lithophile association chiefly grouping the aluminum-bearing, as opposed to the magnesium-bearing minerals (See Fig. 4). Its variations are rather limited in the section, except for a slight increase in the Bad Cache Rapids Formations.

<u>Factor 4</u> is principally led by Ba and Sr, which are particularly abundant in the Ekwan Formation, presumably due to diagenetical processes in primarily porous carbonates.

The statistical analysis also suggests that the chlorite occurring in the Devonian is probably of detrital origin, as in Narwhal South.

5. / STUDY OF THE ORGANIC MATTER /

5.1. QUANTITY OF ORGANIC MATTER (Fig. 5, Pl. V)

Organic matter contents are very poor throughout the investigated section, except for some horizons in the Kenogami Formation, which contain bituminous deposits, related with a stromatoporoidal dolomite.

5.2. QUALITY OF ORGANIC MATTER

Several data contribute in the definition of the quality of organic matter :

- Optical observation of organic components in transmitted and reflected light (see Pl. V) : an estimate of the representativity of this observation is given by the ratio of recovered organic matter in the preparations, versus total organic carbon.
- Scores of the "organophile factor" from factor analysis.

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- Yields and composition of chloroform extractable organic matter (particularly the chromatographical patterns, Fig. 6 and Pl. V).
- Carbon-ratio.

It appears that the quality of organic matter is generally fair in most of the section, except for the upper part (units B and C). However the poor yields of extractable hydrocarbons show that this fair quality is quite insufficient to counterbalance the poor quantity of organic matter. In addition, the highest amounts of chloroform extract recorded in the basal Churchill River Formation are obviously influenced by contamination, as shown by chromatograms of total alkanes (see Fig. 6).

5.3. MATURATION

This parameter has been determined by means of :

- optical study of organic matter in transmitted and reflected light (states of preservation, vitrinite reflectance, intensity of fluorescence);
- study of the chloroform extractable organic matter (including chromatography of total alkanes, Fig. 6);
- amount and composition of sorbed gases (Fig. 7);
- carbon-ratio.

All these data confirm the immaturity of the sediments under study, as previously assumed in the note R/GEO nr. 28/75. Therefore, the scarce organic matter enrichments observed in the Kenogami Formation cannot be valorized at all, as well as the fair quality of the organic matter contained in the Ordovician-Silurian interval.

6. / CONCLUSIONS /

6.1. BIOSTRATICRAPHY

The biostratigraphic attributions have been summarized in Figure 2. No particular remark has to be done concerning the Polar Bear C-11 well. Nevertheless, the chronostratigraphic discrepancy between palynology and microfauna still persists for the C 4 core in Walrus. This is brought forward by a definite palynological correlation of the Walrus C 4 core with the 3,060'-3,160' interval in Polar Bear as opposed to the correlation chart of Plate II.

6.2. ENVIRONMENTAL REMARKS

An hypersaline and reducing environment has been found throughout the investigated interval, except for the uppermost part of the section (unit C) in which the increase in the detrital supply probably concurs with freshwater inflows. No evidence of the proximity of reefal buildings has been shown by microfacies study.

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6.3. SOURCE-ROCK POTENTIAL

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Organic matter contents are very poor throughout the section, except for some horizons in the Kenogami Formation. In addition, the sediments under study are obviously immature. For these two reasons, the source-rock potential of the whole section can be considered as low.

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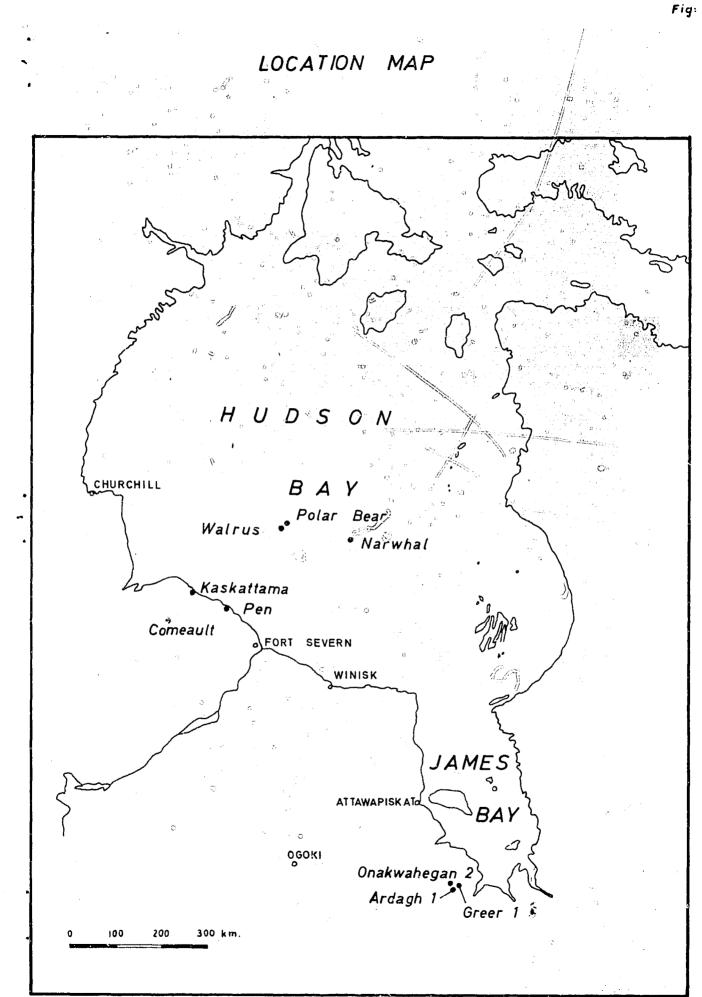
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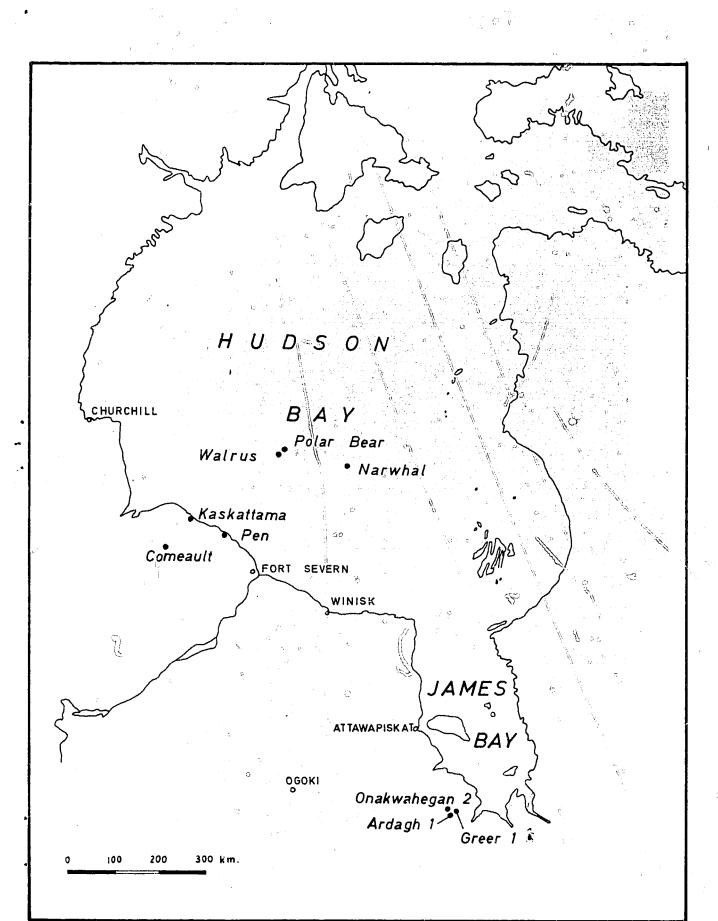
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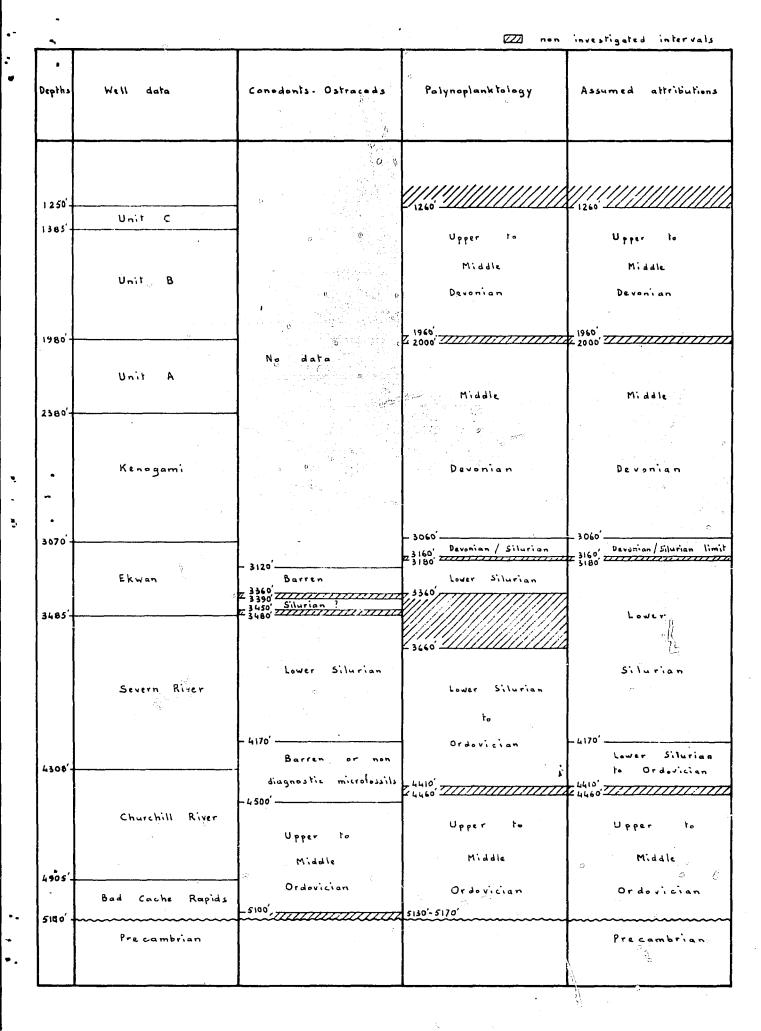
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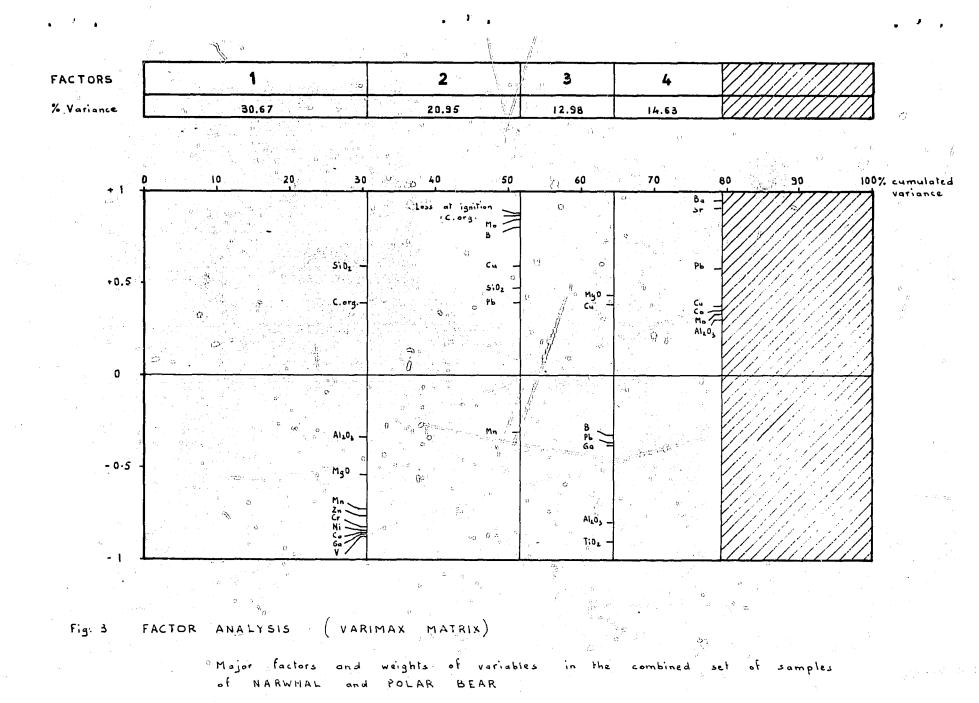
Fig: 1

LOCATION MAP



DATA

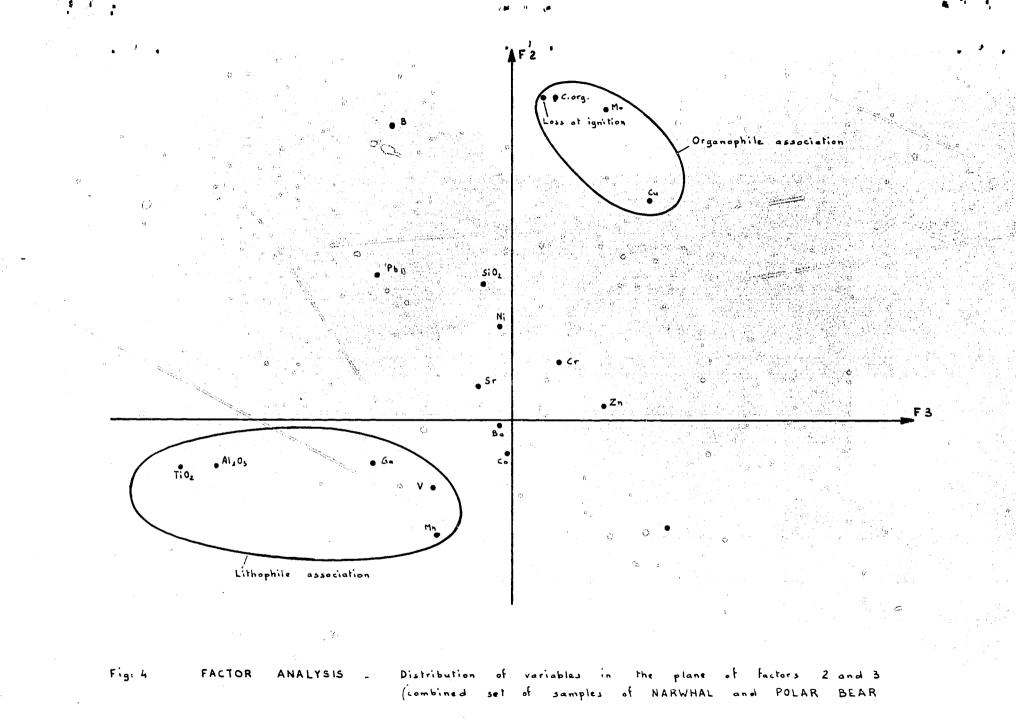




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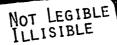
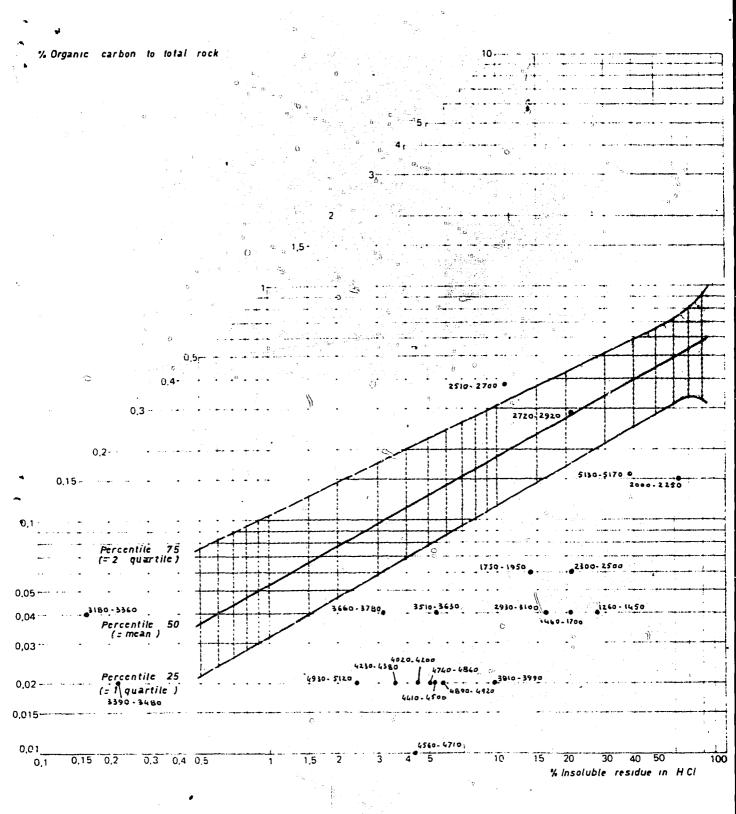


Fig. 5



ORGANIC CARBON CONTENTS

The shaded area represents the carbon concentration of 50% of the samples . in a statistical set of random sedimentary rocks

Polar Bear

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4020' - 4200'

The gas chromatogram of total alkanes shows abundant quantities of n-alkanes, especially in the high molecular range $(n-C_{24} - n-C_{32})$. The n-alkane spectrum is peaking at n-C₃₀ and a strong predominance of even molecules is obvious. This pecularity is often observed for carbonates deposited under highly reducing conditions (association with evaporites). Moreover this even predominance indicates that the organic matter is not mature. This immaturity is confirmed by the occurrence of steranes and triterpanes in the branched and cyclic alkanes.

4410' - 4500'

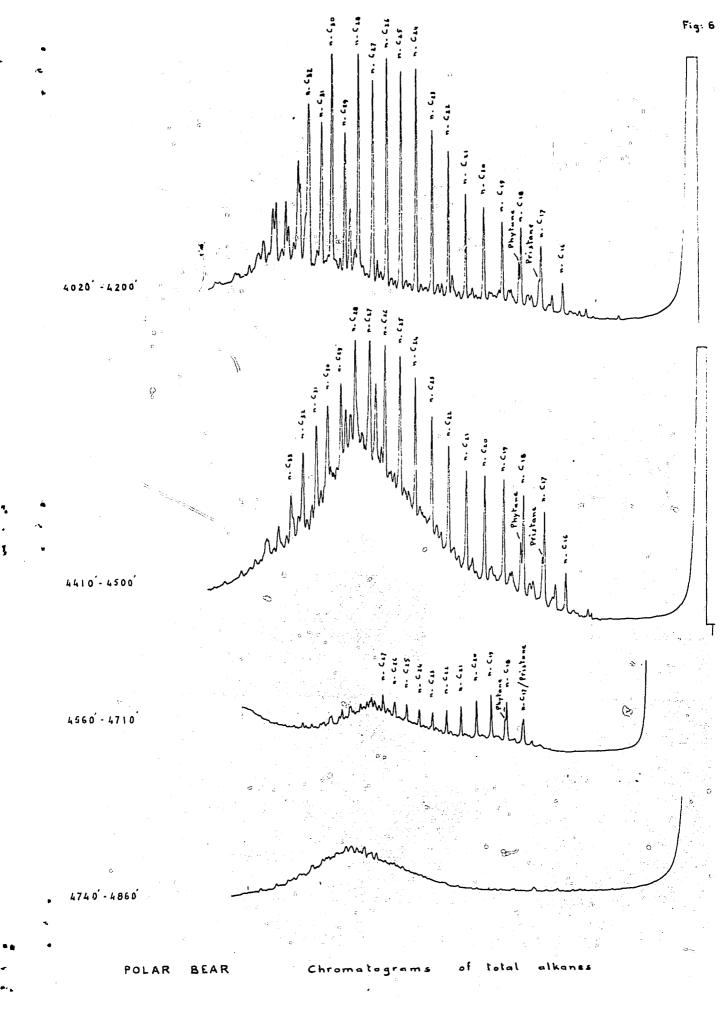
The total alkane fraction contains n-alkanes in the range n-C16 - n-C33. No odd-even predominance appears. The branched and cyclic alkanes are mostly composed of high molecular weight structures (bump region). Such a finger print is frequently associated to impregnations of carbonate rocks.

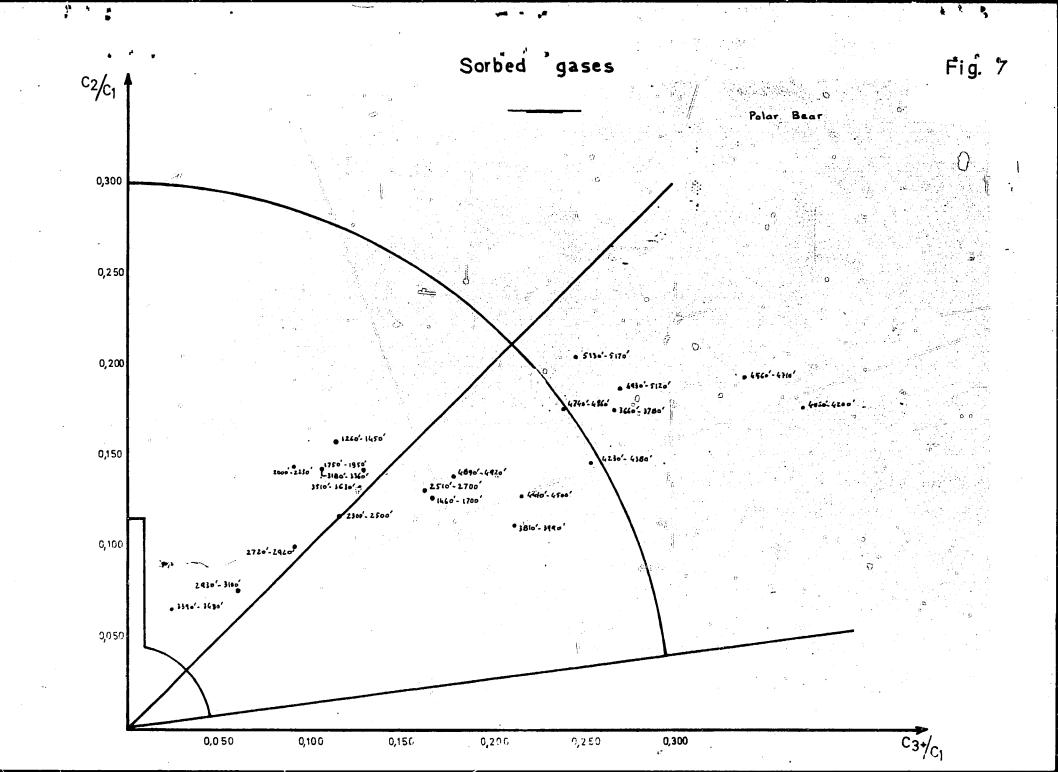
4560' - 4710°

The gas chromatogram of total alkanes shows a n-alkane distribution ranging from $n-C_{16}$ to $n-C_{27}$. This n-alkane spectrum is peaking at $n-C_{19}$. Steranes and triterpanes are detectable in the branched and cyclic fraction. All these characteristics mean that the organic matter of this sample is mostly algal or sapropelic and that it is not very mature.

4740' - 4860'

The total alkanes are devoid of n-alkanes. Such a chromatogram may correspond to an "impregnation" which has been degraded by bacteria or to a pollutant product such as drill pipe grease, wonderseal, lubricating oil, ...







COUNTRY or AREA

HUDSON BAY

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ORGANIC ANALYTICAL

DATA

SECTION POLAR BEAR

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ORGANIC ANALYTICAL DATA

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0.58	91	= *			······	-3255 575					2,80	1:75	69,00		¥	-0.01	-0.06	· · · F	-	R	c	 *(q.,	1IA		- ?			2.75/3.00	· · · · · · · · · · · · · · · · · · ·	3.0r	5.43	5130-517	/ 0
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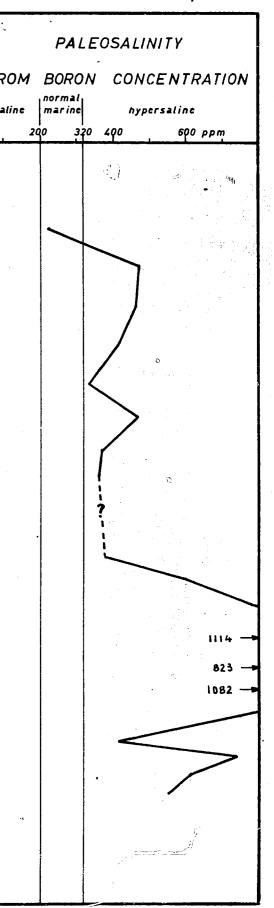
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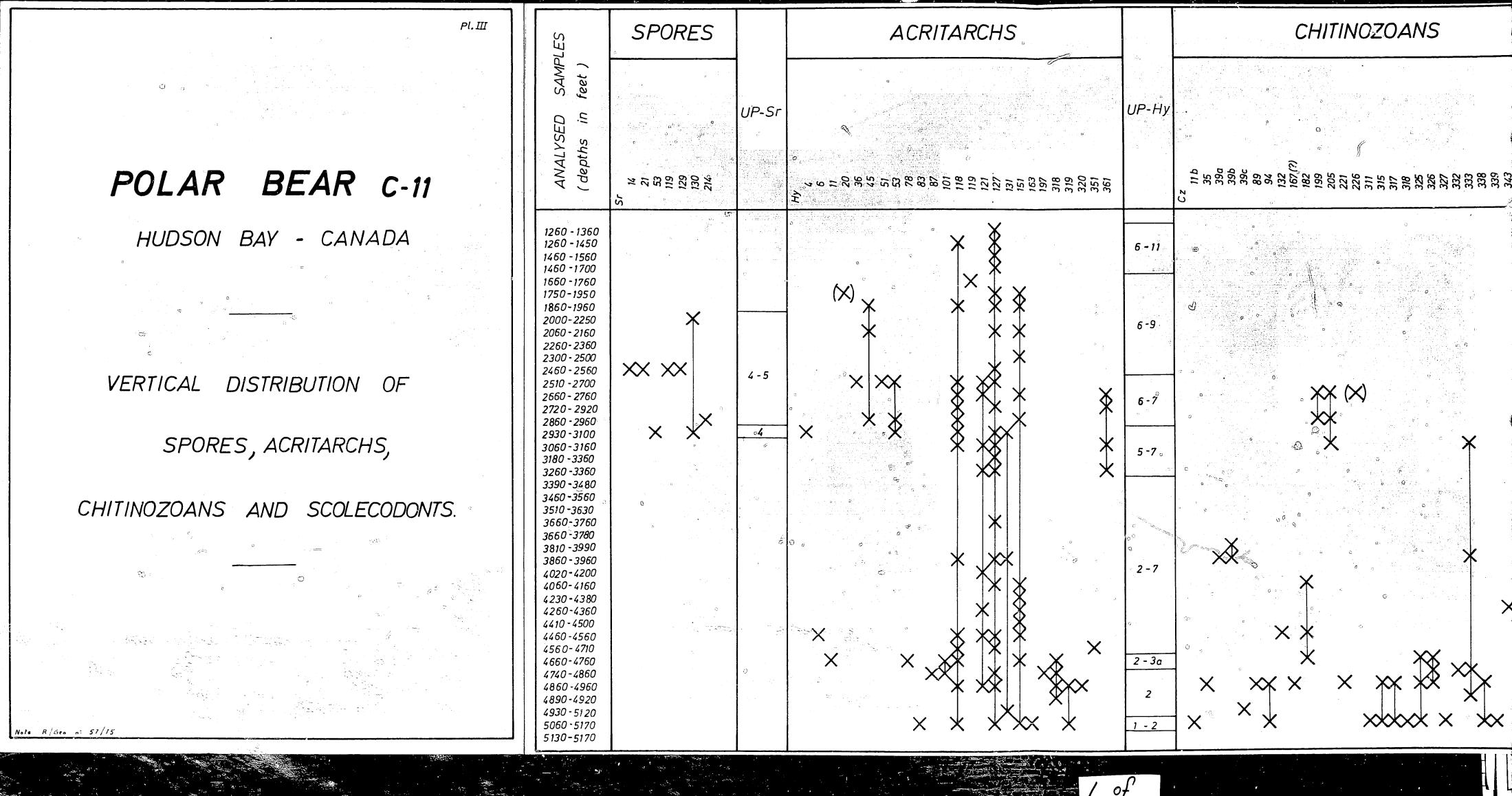
Major mineralogical and mineral chemical data

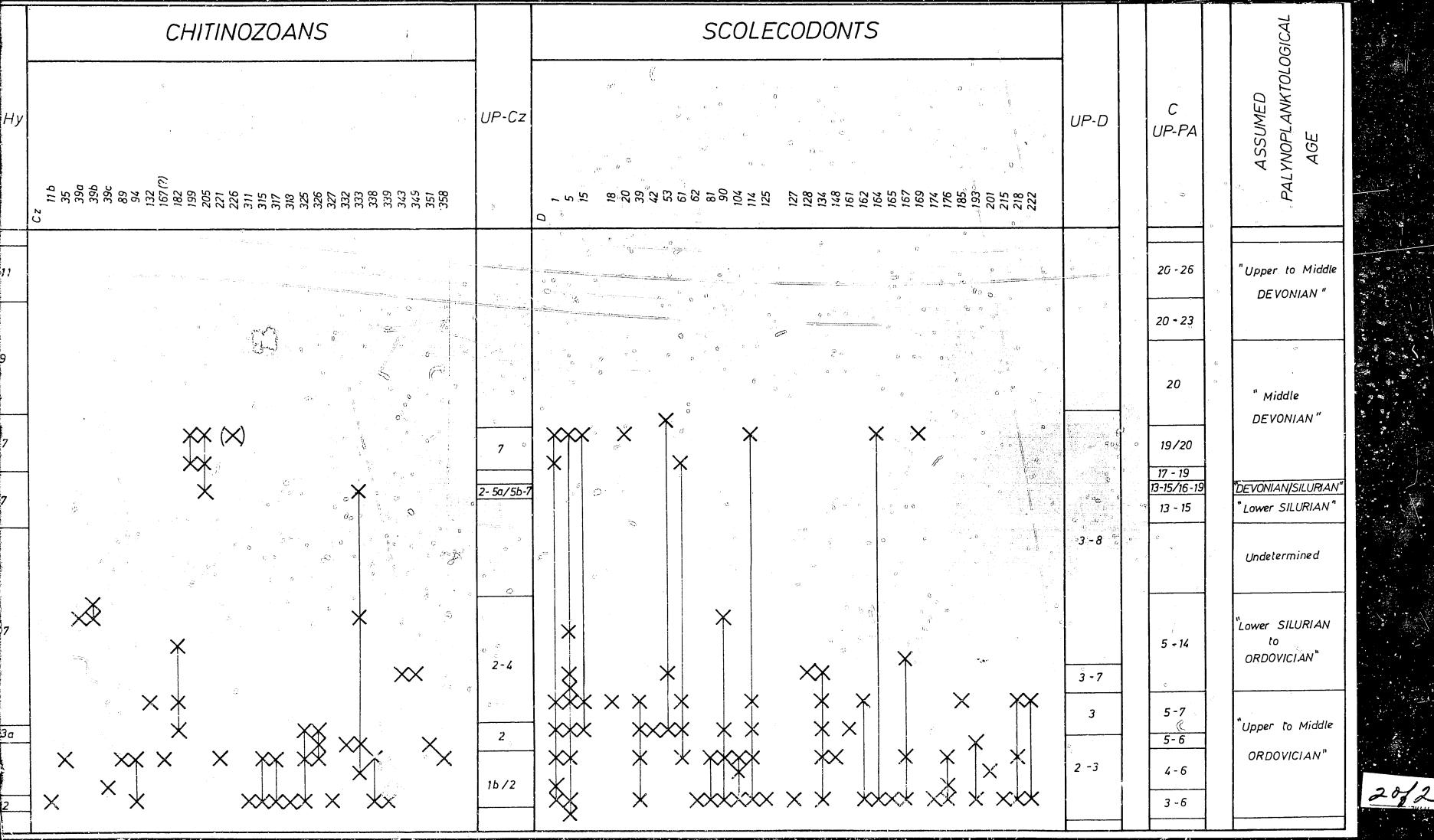
Note R/Geo nº 57/75

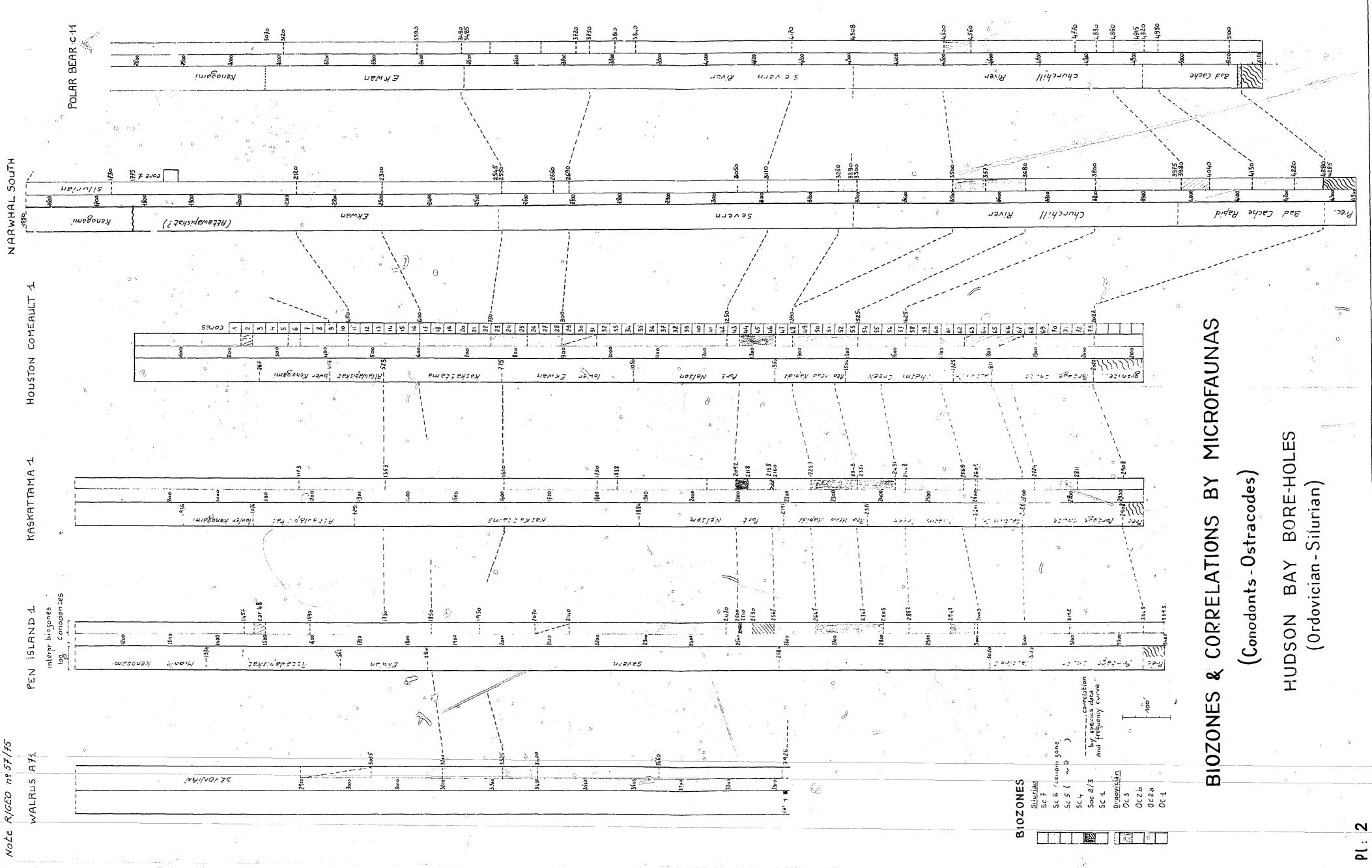
STRATIGRAPHY	COLUMNAR SECTION	SAMPLING FOR GEOCHEMIS.	GROSS LITHOLOGY	MAJOR MINERALOGICAL COMPONENTS quartz dolomite calcite 50% in HCl	CLAY MINERALS chlorite illite m.1. illite-montmor. 50%	FR(hyposali
DEVONIAN	1000' -					
Unit C		- 7 - 1260'- 1450'	Red silly clay; some quarte grains; gypsum and anhydr.; briefiated dolomitic lms.			
1385 - 1385 - 19 19 19 19 19 19 19 19 19 19 19 19 19		1460 - 1700	Micritic, slightly dolom. and argil. Ims; anhydrite			
	2000' -	1750 - 1950	Red brn. micr. Ims., somewhat argil.			
z Unit A Y Z		2000 - 2250	Dol. brn. red clayst. W/ some cavings from the above lms.			
2380' - ₩ Ω		2 3 00 [°] - 2 5 00 [°]	Pellet Ims.; dolomicrosparite to 'dolosparite; anhydrite Dolospar.; dolomicrospar.; dol. Ims.; pellet Ims. w/ stromatopor. struct. (?); minor red shole			
KENDGAMI			struct. (?); minor red shole (Salt); dolomicrosparite, red brn. micr. lms. (cavings ?); anhydrite			
- ? 3070' -		2930'-3100' ===================================	(Salt); gy., red brn. dolosparite and dolomicrite; gypsum or anhydrik	╘╤╤╤╤╤╤╦╦╦╦╗		
EKWAN		3180 · 3360	Dolomicrite and dolomicrosparite Same as above		Bad X-Rey pattern	
Z 4		3510 - 3630	Calcisparite and dolosparite w/ anhydritic inclusions Same as above	┺╍╱╤╱<u>┲</u>╘┍┍┍┱ ╝		
SEVERN River	4000' -	3810-3930	felletoidal micrite, dolomicrosparite; anhy drite		Bad X- Ray pattern	
- ? 4308' -		4020' · 4200 4230' · 4380	Pelletoidal micrite or dolomicrite; dolosparite Pelletoidal micrite, dolomicrosparite; brn. dolomicrite u/some anhydritic		Bad X. Kay pallern Bad X. Lay pattern	
Z CHURCHILL		4410 - 4500	inclus. Pellatoidal dolomicrite or dolomicrospar.;micrite; minor enhydrite Slightly siliceous micrite; dolomicrosparite; some pellet lms.; minor	1 11		
BAD CACHE RAPIDS		4740' · 4860'	anhyd. Pelletoidal and brecciated micrite - dolomitized w. some bioclasts?) dolomicrite, dolomicrosparite Gy. dolomicrite; dolomicrosparite; minor micrite			
BAD CACHE RAPIDS	5000' -	4930'- 5120'	Microbrecciated lms.; swht. dolom. in place; scarce laminated structures (?) Same as above w/some granitic fragments (principally quarte			
			+ mierocline)			
L						<u> </u>



Pl: IV

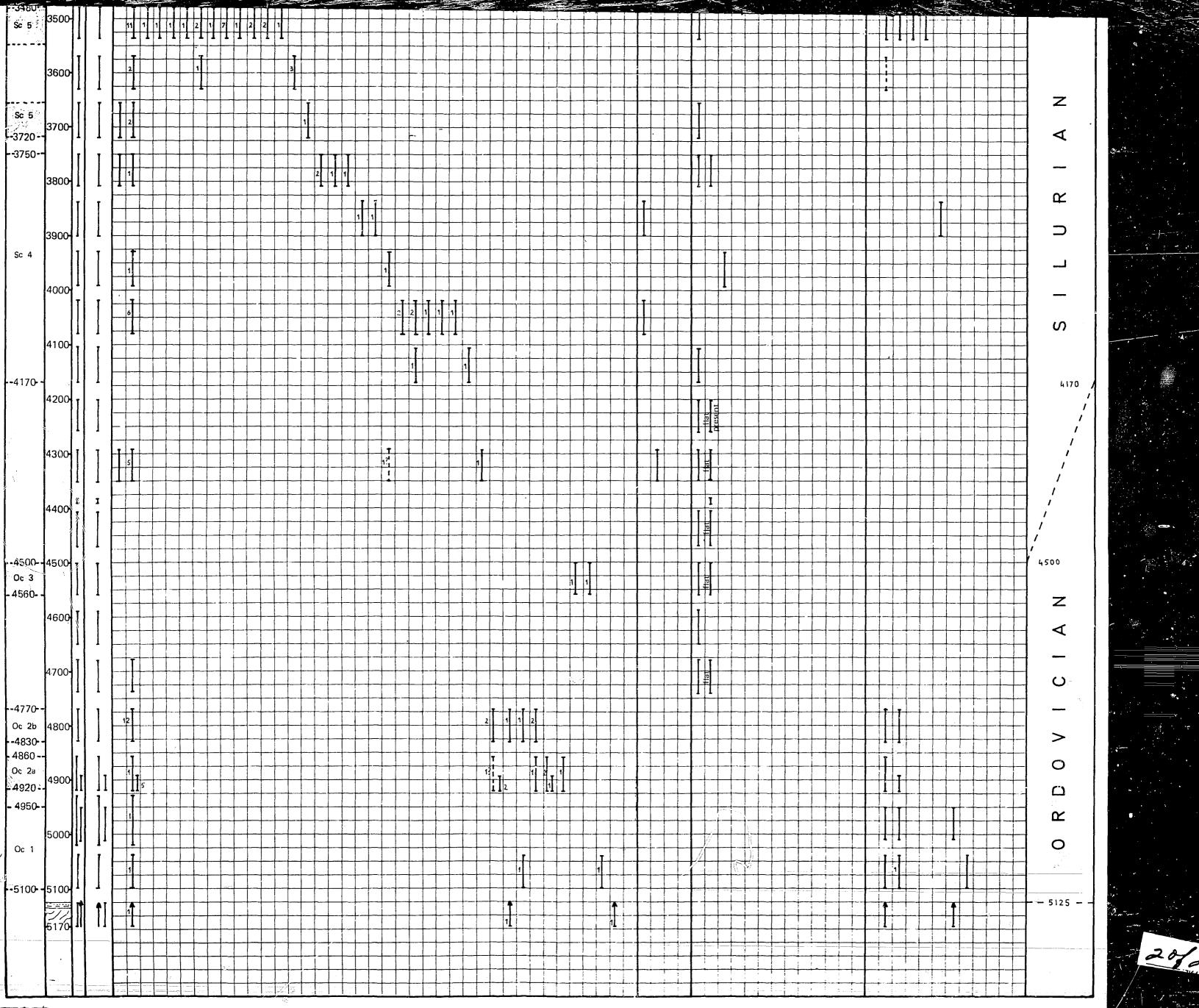






Note	R/G		n 57	0	а; ,) R	С С	; ,	ę				•	N.						!	V 1		C		11		• •	S					α
														сс) N	01	00	N	TS	5				 		 <u> </u>	 	09	stra	ac		/ar	iou	us	0.	rga	ani	isn	าร	Τ	P
BIOZONES	DEPTH (feet)	CUTTING SAMPLING	Acid attack PROCESSING	black sphere ' simole cone indet	simple cone group k1/1349	cone group k1/1349 ?	Roundya sp	Ozarkodina cf. adiutricis	Spathognathodus cf. celloni Spathognathodus sp	fragment Neoprioniodus planus ?	Ligonodina sp	Hadrognathus staurognathoides ? Undet, Conodont	Neospathognathodus bullatus ?	Distomodus ? CN 481 Ligonodina sn	Undst Conodont aff. W 3045	Spathognathodus ? sp	Loncbodina ? n. sp			Ligonodina ? sp (massive) Ligonodina ? variabilis		Lonchodina sp. CN 673 framment 1 iconodice Activitie 2	Oistodus/Drepanodus sp.	t	Ambalodus sp. 4 Amorphognathus sp Plectodina undulata	R. paucidentatus (R. sym. symmetricus)	simple cone PB 5130	Ostracodes ?	Ostracodes PB/4290		Crinoids (white)	spicules	Crinoids (yellow)								
	3000	╊╌╊ <mark>ᄽ</mark>																							-+																-+
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	3600			2							2°, 4,4		3																												

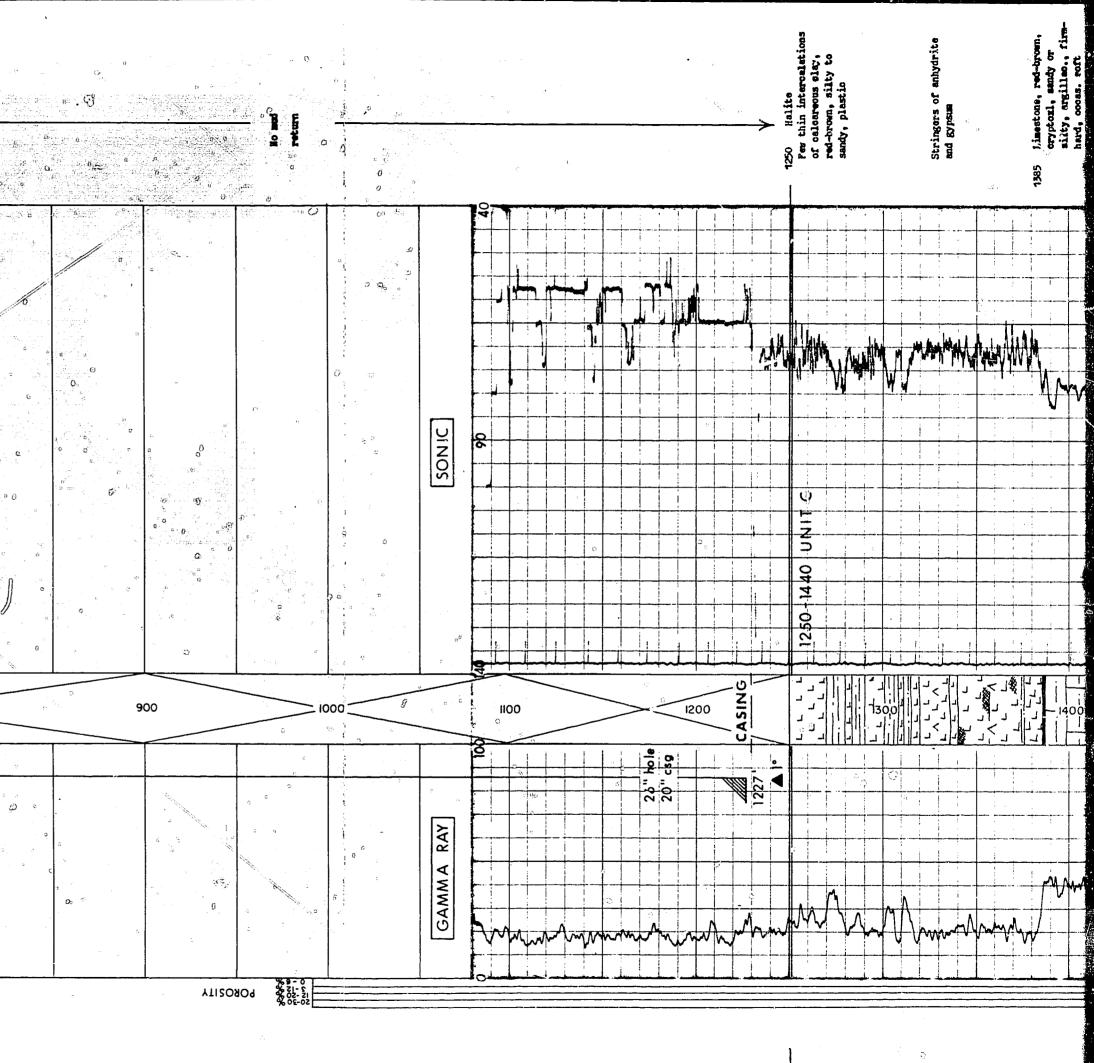
Pl: 1 i i S. Phosphate organisms massive phosphate elements Conularia sp phosphate element PB 3480 a phosphate element PB 3480 b «egg case» like ? phosphate element PB 4950 Conularia plate STAGES ? - 3480 -┨┤┨┤┨┤┨ 1



TOTAL DEPTH	, 710' T.D. \$170	di 1227' GEOLOGICAL FORMATION at 1227' AT SPUDDING LEVEL	GLACIAL [A 3001 GEOLOGICAL FORMATION AT BOTTOM HOLE	<u></u>	SCALE	2 inches to 100 feet	F.I.T. at 4199 no flow; no pressure	а а 	a	· · · · · · · · · · · · · · · · · · ·	630 Mud Line	*	2		27 2		
TIMING CASING	10 : Sept. 21 / 74 🛛 🖉 30 " at	HALT: 0 20 "	or 	9 p	HALT :	÷0	· Oct. 14 / 74	Test . 3100 - 515 6 3078 - 5166 3078 - 5167 3078 - 5165		÷ 3	<i>ع</i>			2				
PERMIT or LEASE	H.B. OFFSHORE COMMENCED	PROVINCE TEMPORARY	FEDERAL WATERS	CO-ORDINATES	30,	5° 47' 13.15" RESUMPTION	77 A. M. S. L.	HC - GR Int: 1245 -3102 NL NL 500 -3106 NL 1245 -3100	s are Provisory. Joned	2 A) 	60	200		2 2 2 2 2 7				80
OPERATOR	ш	CONTRACTOR	SEA & LAND	RIG		· Y = 86° BROUGHT UP TO DATE ON Z =	November 1, 1974 ZK8 =	COMMENTS, Logs run : Type: DLL FDC - CNL Pipmeter	The Formation Tops Status : Dry & Aband	survey	noitoi	COS		36"hole 30" csg	۵ 210 -	C C	ي ب ب ب ب ب	

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