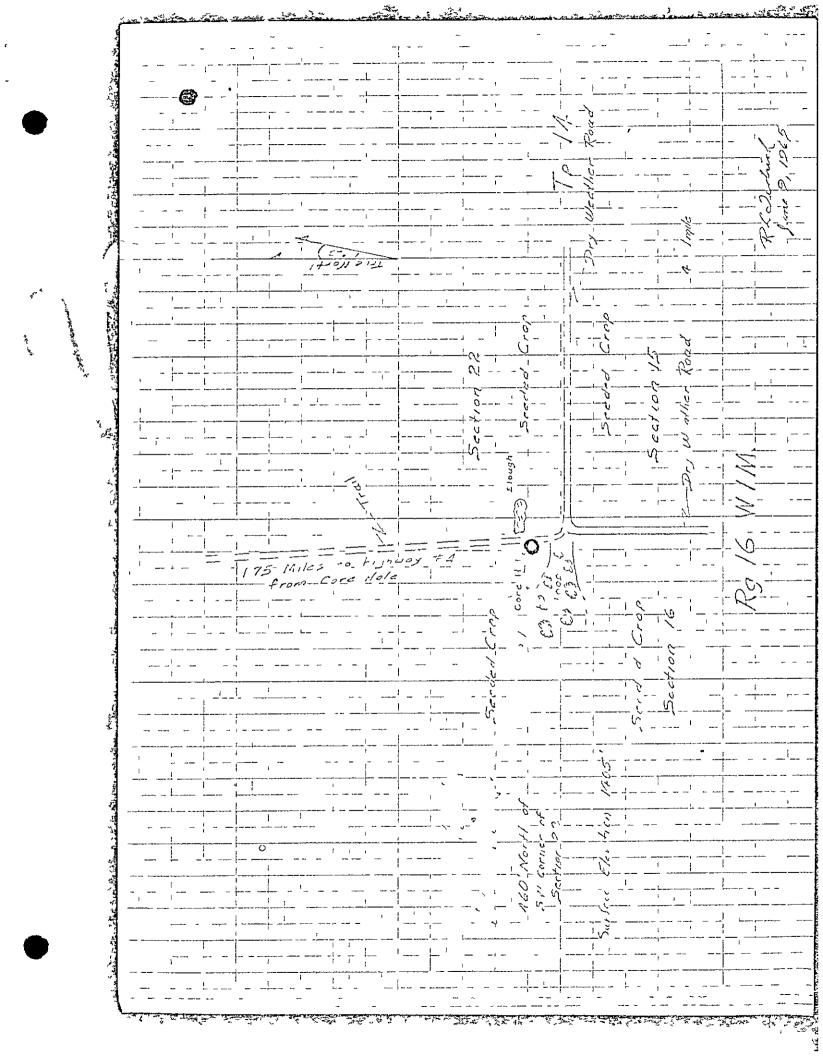


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	<u>د</u> ـ ـ ـ ـ ـ		ANTIC REFINING Co	
			OPERATORAtlantic	
WELL	NAMEC	DRE	HOLE NO !	-
LOCAT	ION Lad 1	6 [] [[GWL ELEVATION 1275	
TE .	COMMENCED	Aug_3	1/65_ DATE COMPLETED Sept 10/65	
TOTAL	DEPTH3	80A_	DEEPEST FM PEN FAYOL	-
STATU	S	-	PRODUCING FORMATION	
CASING	3	SURFA	CE_J14_ PRODUCTION _	
LOGS	RUN			
SAMPL	E QUALITY		N/	
REMAR	κs		Spl 5 or cores not available, non collected due to drig problems	2
		Т	Sand, unconsel, wet	
				$\left\{ - \right\}$
	- 出計 こ	H-H-	· ····································	
			Clay Gry_w_abd nt _pbb/s	
				111
100				
			Sh. Gry. sli cole, dense	++-
1				Ħ
Dr ft			Liay Gr. dense calc is sit plots ?	111
255			Some_operar_to be_producing_water	
1		H. H	Some_appear_to be_producing_Nater	
200		┈┽╍┿╍┿┥		\mathbf{H}
1				
Morden	┥╢╢╢╾╺╾	-1'	Sh , M Gry ; sh _Colc , dense	
Morden				┼┼┨
300		1-1-1		
500				
1				
[ave]	1111-0=0		Sh M Gry_w/ 1/2 1 \$ cals le yeins Sh a calc	
400		++++	TD 380	
			* 250 + of Smple bogged & sent to	┝╌┦╌┨
	- +++++		Monitoba Gayt	
		╉└╧╾┽╡ ·╎╸╷╸┽┨		
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		1414		#1
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ATLANTIC REFINING CO OPEPATOR Atlantic PROVINCE Manitoba WELL NAME _ CORE HOLE NO.] _____ LOCATION Lad 1 16 11 16 WL . ELEVATION 1275 DATE COMMENCED Aug_31/65_ DATE COMPLETED Sept 10/65 DEEPEST FM PEN Equel TOTAL DEPTH __380A ____ PRODUCING FORMATION STATUS _ _ _ CASING _____ SURFACE 14 _ PRODUCTION _ - ---LOGS RUN ... LOGGED BY RLT ____ SAMPLE QUALITY - -Spls or cores not available, none collected due to drig problems REMARKS _ _ ÷ -Sand, unconsul, wet Clay, Gry w abdnt_ pbb/s_ ___ ... 100 Shy Gry all cole dease Clay Gry dense cale w slt pkts + occas sond has + bds -Drift 255 200 Sh, MGry, sh Colc, dense Morden 300 Sh M. Gry w/ 12 1 o cale le veine Sh is cale Cr=cs Fovel TD. 380 -400 * 250 + of smple pogged & sent to Manitabe Gart +



いちう 「「」 (Par -15 -3-#2 CHEMICAL & GEOLOGICAL LABORATORIES LTD EDMONTON --- CALGARY --- FORT ST JOHN

ATLANTIC CORE HOLE # 2 (16-11-8-11WI) October 22, 1965

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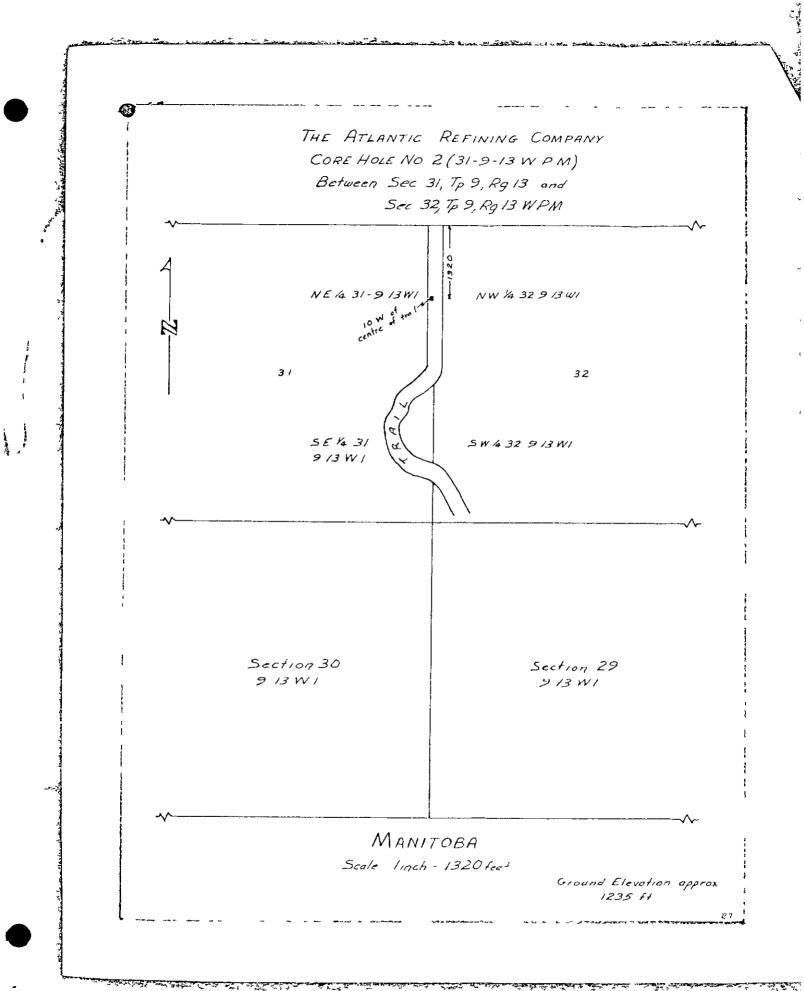
Laboratory Report Number: -67948

CORE-HOLE NUMBER-4

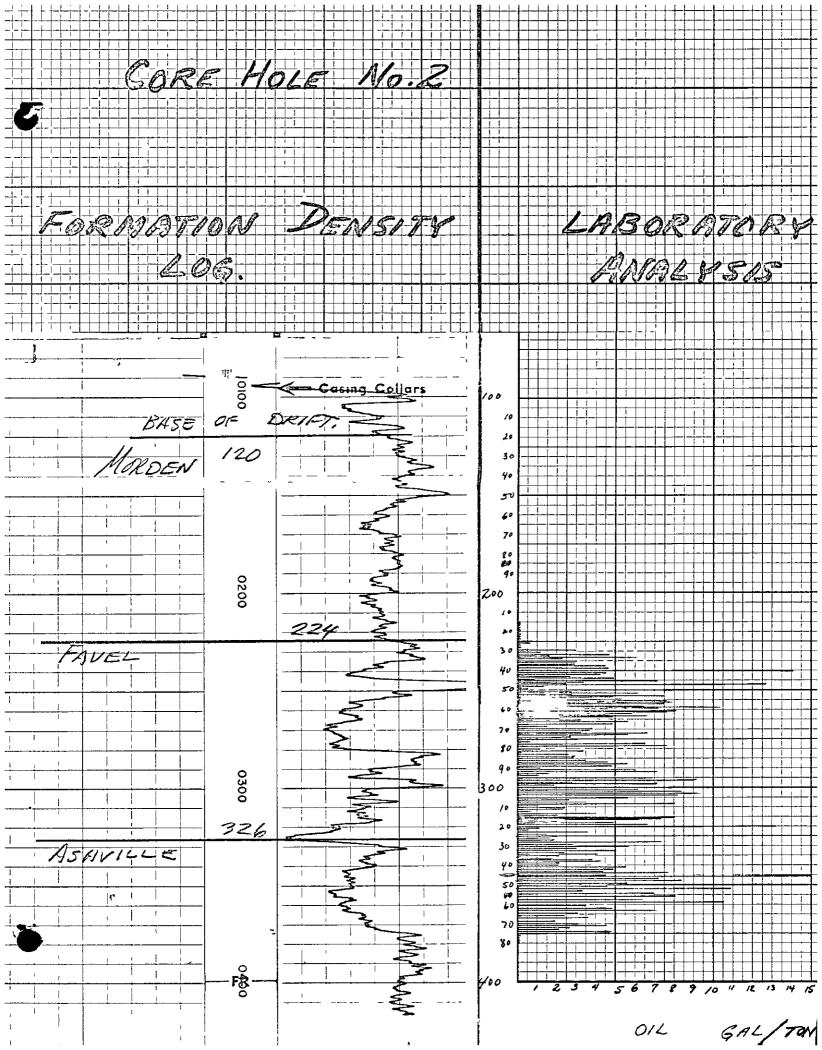
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ATLANTIC REFINING Co PROVINCE Monitoba OPERATOR Atlantic WELL NAME CORE HOLE NO 2 INTER-DEPARTMENTAL MI LOCATION 16 11 8 11W1 ELEVATION 1180 DМ DATE COMMENCED 7/9/65 DATE COMPLETED 8/9/65 TOTAL DEPTH 400' DEEPEST FM PEN Ashville PRODUCING FORMATION SUBJECT CASING _____ SURFACE 90 ___ PRODUCTION _ LOGS RUN ____ . SAMPLE QUALITY ____ LOGGED BY RLT___ DATE ____ REMARKS __ __ __ __ - 7-7 ----clay M Gry ~ occas fand bas D+ ft ti İl ______ ----clay M Gry gray in clay 14 brn 11 cale Sh M Gry. loe wht calc spks. 100 Sh_M Brn_dense, wxy _____ Morden Sh, M Brn, dense, way w occas pelecy shells and and arg mtl _Z pyrile_bad 200 4 + @ 245_Sh, M Gry_Brn, _calc_____ Ls Gry_Brn, at ang @_251_Sh Grybrn, u_calc, w abdt_wht_apka__ Fove - 1 300 -----_ _ _ _ _ ____ 3.45 11 ____ __ __ __ __ Ashville @ 376 sh M Gry w about 18 14 sand lenses 400 _____ - - - - - - ------1.1 -----Τt ŧfil i Li 117 i.



CHEMICAL & GEOLOGICAL LABORATORIES LTD



Date Reported. October 12,1965

Laboratory Report Number. C7909

THE ATLANTIC REFINING COMPANY

Well: Lsd 16-11-8-11 W1

Kind of Sample. Core

Core Hole: Number 2

Date Received. September 14,1965

 Specific Gravity:
 0.962
 at 60/60°F

 A.P.I. Gravity:
 15.6
 at 60°60°F

Yields are reported in U.S. gallons

NUIBER	HULE	INTERVAL	BAG <u>NUMB_R</u>	OIL <u>GAL/TON</u>	WATER <u>GAL/TON</u>	BULK DENSITY
1	2	215"-229"	1	< 0.1	37.1	2.17
2			2	< 0.1	36.6	2.09
3			3	< 0.1	33.3	2.14
4			4	< 0.1	31.5	2.14
5			5	< 0.1	32.0	2,06
6			6	< 0.1	33.1	2.14
7			7	< 0.1	35.6	2,19
8			8	< 0.1	34.2	2.14
9			9	< 0.1	34.0	2.20
10			10	1.9	11.7	2.17
11		1	11	1.2	32.6	2.17 ang
12			12	< 0.1	32.7	2.18
13			13	< 0.1	30.1	2 . 16
14	2	229 '-243 '	1	3.0	25.1	2.24
15			2	1.1	28.7	2.22
16			3	4.7	23.7	2.31
						0 10

Carge.yield of splo. 10 - 169 = 4.5 g/L.

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Date Reported. October 12,1965

		-				
<u>The Atla</u>	ntic Refi	ning Company	Laboratory Report Number C7909			
NUMBER	HOLE	INTER VAL	BAG <u>Number</u>	OIL <u>GAL/ ION</u>	WATLR <u>GAL/TON</u>	BULK <u>DENSITY</u>
17	2	229 '-243 '	4 ``	1.6	22.1	2.31
18			5	6.1	22.9	2,20
19			6	2,3	25.3	2.16
20			7 35	3.0	26.3	2,17
21			8	2.9	23.1	2.26
22			9	2.9	20.9	2.33
23			10	4.5	24.1	2.14
24			11	4.6	31.6	2.08
25			12 4	14.1	23.5	2.06
26			13	4.5	29.4	2.12
27			14	4.2	29.1	2.16
28			15	3.1	32.3	2.01
29	2	243 '-253 '	1	4.9	29.8	2.10
30		7	2 🗳	0.9	35.1	2.07
31			3 45	7.2	29.9	2.06
32			4	3.4	30.3	2.04
33			5	3.0	34.4	2.01
34			6	13.1	20.8	2.05
35			7 %	1.3	22.8	2.07
36			8	< 0.1	14.6	2,26
37			9	0.5	9.1	2,33
38			10 50	0.2	11.1	2,57
39			11	2.7	8.2	2.17
40			12 🕫	6.2	26.8	2.08
41			13 '	2.7	39.5	2.13
42			14	7.5	26.1	2.46

Continued Page 3				Date Reported:	Uctober 1	2,1965
<u>The Atla</u>	<u>ntic Ref</u>	ining Company		Laboratory Report Number C7909		
NUMBLR	HOLE	INTERVAL	BAG NUMBER	OIL <u>GAL/TON</u>	WATLR GAL/TON	BULK <u>DENSITY</u>
43	2	253 *-260 *	1 63	4.9	27.2	2.11
44			2	2.4	38.2	2,15
45			3 ค	2.7	32.4	2,18
46			4	5.3	24.6	2.04
47			5 4	7.7	29.9	2.03
48			6	5.0	33.8	2.04
49			7 50	7.8	26.9	2.03
50			8	7.5	30.8	2.05
51			9່ ‹'	2.5	37.0	2.00
52			10	6.4	32.7	2.02
53			11 **	10.3	29 . 7	2.31
54			12	7.2	30.3	2.07
55			13 <	4.6	32.7	2.04
56			14	1.6	36.3	2.07
57	2	260"-273"	1	8.1	34.1	2.10
58			2	7.6	33.8	2.04
59			3	5.8	35.3	2.01
60			4	4.7	39.1	2.03
61			5	6.7	32,4	2.00
62			6	4.9	30.8	2.07
63			7	2.2	39.6	2.05
64			8	3.2	38,8	2.00
65			9	5.6	35.8	2.07
66			10	4.8	36.0	2.07
67			11	1.5	38.4	2.06
68			12	3.8	36.6	1.91

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Continue	d	Page 4	Date Reported: October 12,1965			
The Atla	ntic Refi	ining Company		Laboratory Report Number C7909		
NUMBER	HOLE	INTERVAL	BAG <u>NUMBER</u>	OIL <u>GAL/TON</u>	WATER <u>Gal/Ton</u>	BULK DENSITY
69	2	260 '-273 '	13	3.7	37.2	2.08
70			14	3.2	39.0	2.02
71	2	273 '-287 '	1	6.6	35.8	2.02
72			2	5.7	34.7	2.33
73			3 1	2.6	23.5	2.24
74			4	3.1	15.8	2.25
75		1	5	0.7	30.2	2.14
76			6	6.0	23.4	2.25
77			7	7.6	26.3	2.19
78	1		8 μ.	1.2	26.1	2.18
79			9	3.4	15.2	2.10
80			10	< 0.1	22.1	2.24
81		2	11	2.7	22.3	2,14
82			12	2.9	32.4	2.04
83			13 4	2.8	28.0	2.14
84			14	3.5	31.5	2.11
85			15	4.7	26.1	2.01
86	2	287"-302"	1	5.6	38.4	2.06
87			2	4.8	27.3	1.94
88			3	1.2 %	30.5	2.21
89			4	6.0	24.4	2.18
90			5	7.2	22.5	2.48
91			6	1.6 3	19.5	2.21
92			7	1.1 v	22,3	2.21
93			8	6 . 9 ^{<}	26.8	2,26
94			9	9.2 (29.9	1.99
95			10	2.8 7	32.3	2.09

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Continued Page 5				Date Reported: October 12,1965			
The Atla	ntic Refi	ning Company		Laboratory Re	C 7909		
NUMBER	HOLE	INTERVAL	BAG <u>NUABER</u>	OIL GAL/TUN	WATLR <u>GAL/TON</u>	BULK DCN5ITY	
96	2	287*-302*	11	7.1 **	17.0	2,15	
97			12	1.9 ⁴⁴	35.1	2.10	
98			13	5.4 5	33.9	2.01	
99			14	6.2 °	31.0	2.08	
100			15	8.4 ^{""}	24.2	2.16	
101	2	302"-317"	1	9.3	28 . 7	2.05	
102			2	8.2 4	30.0	2.03	
103 [°]			3	5.6 '	27,3	2.12	
104			4	2.6 6	36.0	2.03	
105			5	3.5)	28.1	2.08	
106			6	8.0 1	33.0	2.01	
107			7	1.2 4	31.2	2,12	
108			8	2.4	29.6	1,96	
109			9	2.3	25.7	2,17	
110			10	0.7 il	27.7	2.26	
111			11	4.0 "	34.8	2.20	
112			12	2.2 (4	28.0	2.13	
113			13	8.0 ¹	31.8	1.95	
114			14	7 . 3 ^{IL}	25.9	2.14	
115			15	6 . 3 ⁽¹	36.9	1.93	
116	2	317'-331'	1	2.3	26.9	2,11	
117			2	4.9	34.8	1,97	
118			3	6.7	37.8	2.11	
119			4	13.2 10	41.0	1.76	
120			5	1.1	48.6	1.85	
121			6	0.5	37.3	1.94	
122			7	3.6	33.5	2.18	

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Continued Page 6			Date Reporte	Date Reported. Uctober 12,1965			
The Atlan	tic Ref	ining Company		Laboratory R	Laboratory Report Number C7909		
NUMBER	HOLE	INTERVAL	BAG <u>NUMBER</u>	OIL GAL/TON	WATLR GAL/TON	BULK <u>DLNS ITY</u>	
123	2	317*-331*	8	1.5	34.7	2.05	
124			9	2.0	21.1	2.19	
125			10	1.7	26.8	2.08	
126			11	1.9	29.3	2.31	
127			12	7.3	39.8	1.90	
128			13	2.9	34.4	2,07	
129			14	5.7	30.6	2,05	
130			15	3.0	32.3	2.04	
131	2	331'-345'	1	5.0	32.5	2.08	
132			2	2.3	33.5	2.09	
133			3	4.1	32.3	2.05	
134			4	2,1	29.5	2.06	
135			5	1.2	33.1	2.15	
136			6	1.7	34.2	2.07	
137			7	3.8	30.8	2.08	
138			8	4.3	30.5	2.09	
139			9	2.1 45	34.6	2,05	
140			10	2.1 42	35.2	2.02	
141			11	5.5	34.0	2.03	
142			12	4.8	34.5	2.02	
143			13	4.4	35.4	1.95	
144			14	7.7	28.9	2.01	
145			15	4.5	31.6	2.04	
146	2	345"-365"	1	15.0	30.3	2.14	
147			2	7.2	33.1	2.00	
148			3	8.3	31.0	2.02	
149			4	5.6	33.9	2.00	

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	Continue	d	Page 7	Date Report	Date Reported October 12,1965			
	The Atla	<u>ntıc Ref</u>	uning Company		Laboratory	Laboratory Report Number C		
	NUMBER	HOLE	INTERVAL.	BAG <u>NUMBER</u>	OIL <u>GAL/TON</u>	WATLR <u>GAL/ ION</u>	BULK DENSITY	
	150	2	345"-365"	5	4.6	34.2	2.04	
	151			6	10.9	26.7	2.06	
	152			7	3.3	40.3	2.02	
•	153			8	6.9	29.2	2.20	
	154			9	8.0	36.3	2.04	
	155			10	6.4	32.3	2.03	
	156			11	10.5	28.1	2.08	
	157			12	3.5	37.2	2.01	
	158			13	4.8	35.7	2.04	
	159			14	7.1	32.6	2.07	
	160			15	3,2	35.2	2.13	
	161	2	365'-380'	1	2.4	36.4	2.12	
	162			2	3.6	33.7	2.12	
	163			3	1.8	36.7	2,11	
	164			4	3.1	37.5	2.11	
	165			5	4.6	34.6	2.14	
	166			6	2.7	36.2	2.09	
	167			7	2.2	36.7	2.14 ang	
	168			8	4.8	29.1	2.15	
_ -	169			9	4.7	31.2	2.18	
-	170			10	<0.1	22.6	2,26	
· •	171			11	<0.1	28.4	2.17	
•	172			12	<0.1	28.0	2.13	
	173			13	<0.1	30.2	2.17	
	174			14	< 0.1	31.4	2.15	

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11. N GOUT COPY -#3 CHEMICAL & GEOLOGICAL LABORATORIES LTD EDMONTON - CALGARY - FORT ST JOHN

ATLANTIC CORE HULE# 3 (2-9-6-8WAM) September 20, 1965

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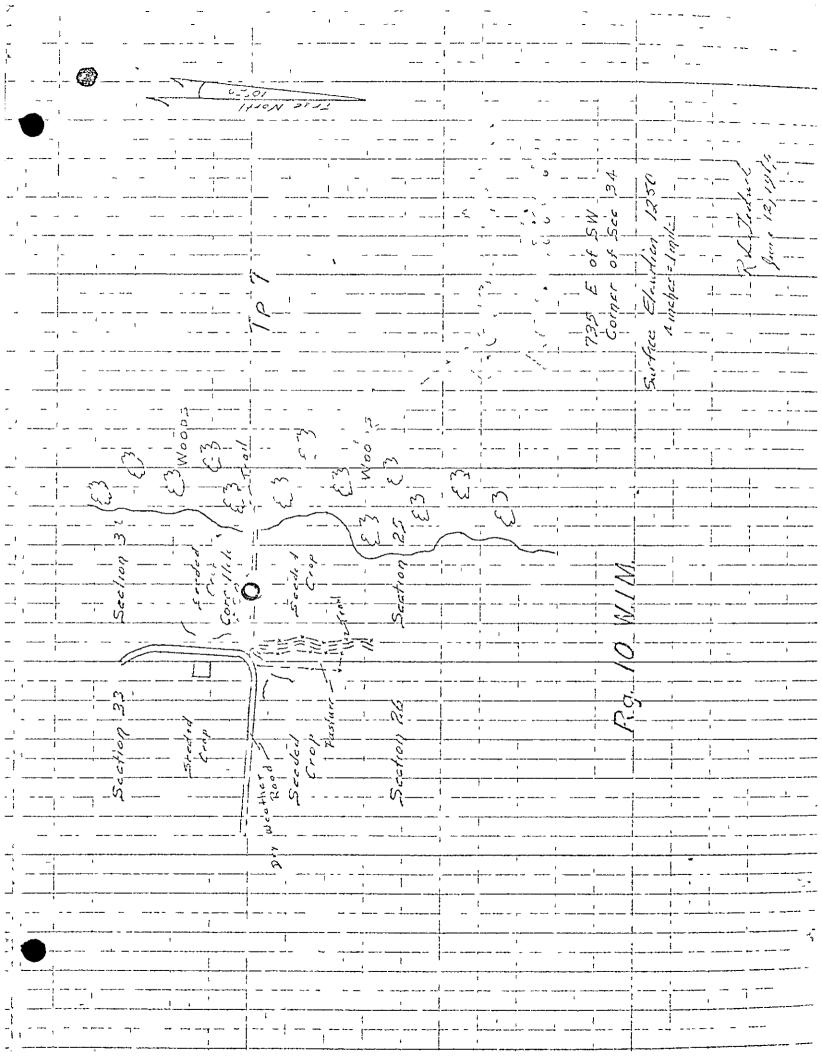
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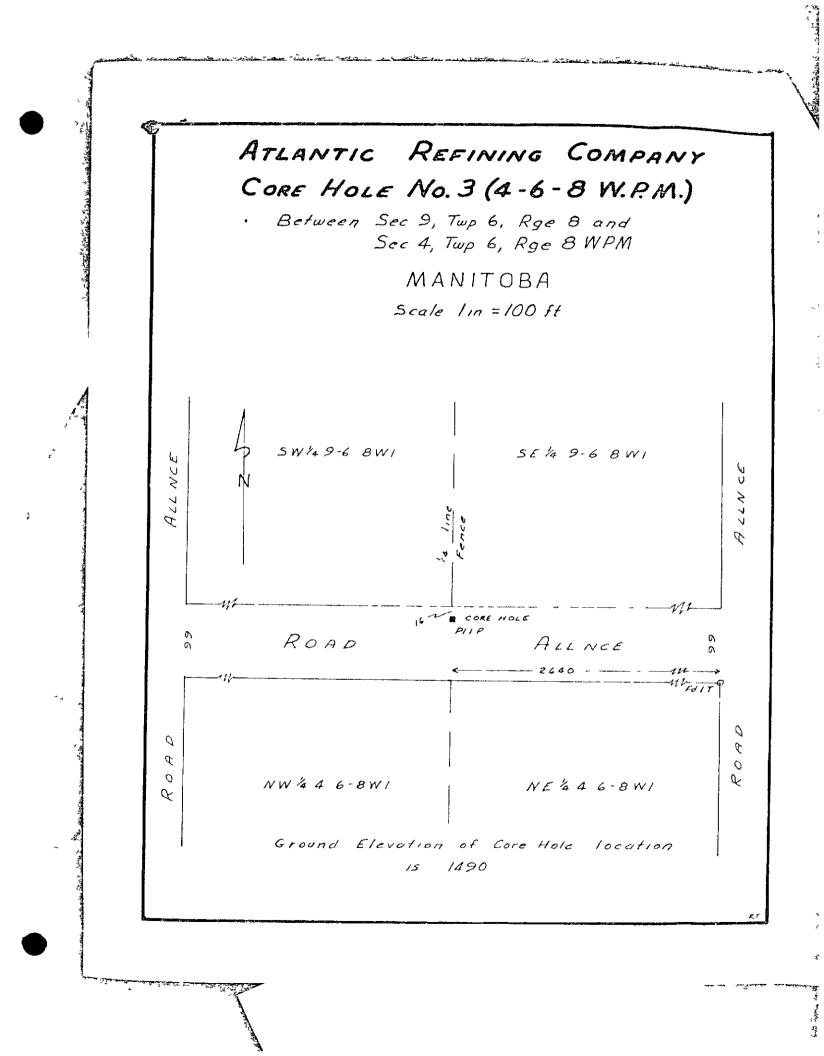
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Laboratory Report Number C7821

The Atlantic Refining Company





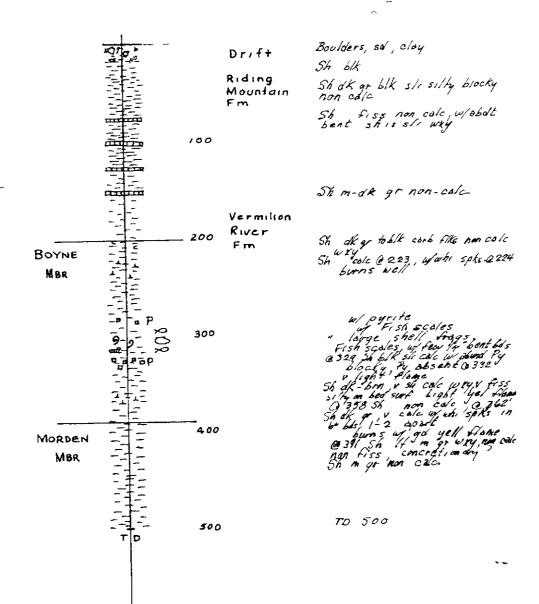
ATLANTIC REFINING CORE HOLE NO 3

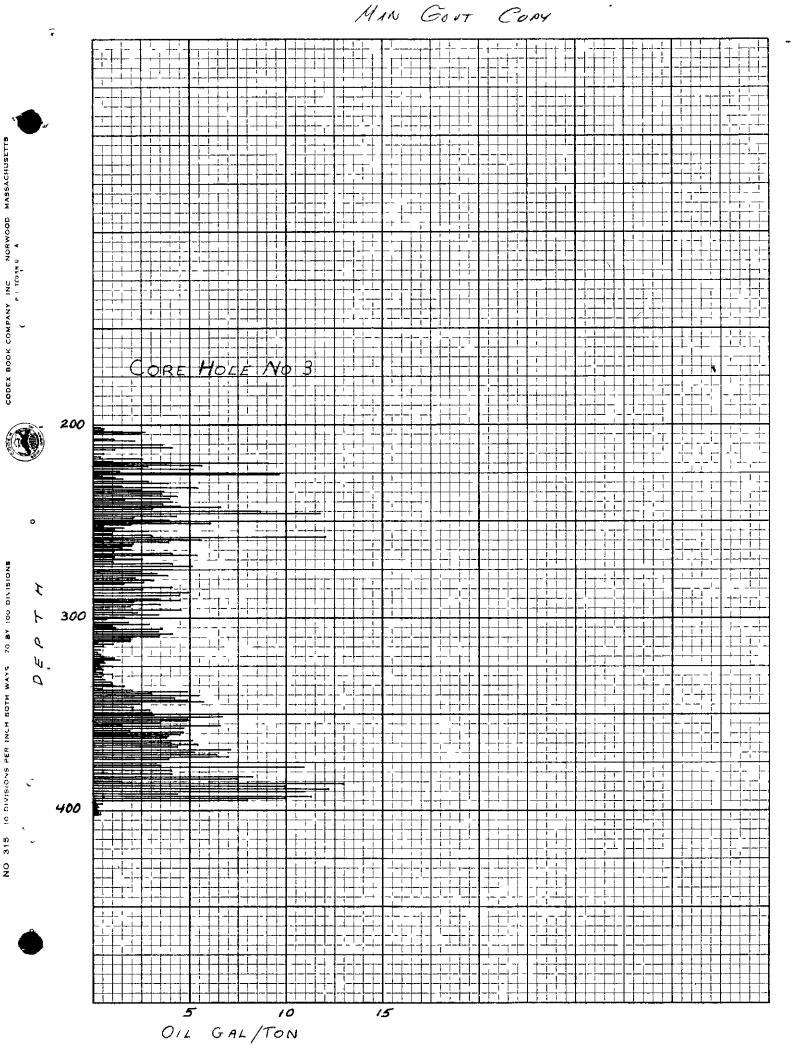
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Lsd 2-9-6-8 W.1

KB 1490'





100 DIVISIONS à 70 VAYS INCH BOTH IO DIVISIONS PER

CODEX BOOK COMPANY

315 ° z



14240 115 AVENUE EDMONTON ALBERTA

Date Reported: September 20, 1965

Laboratory Report Number C7821

THE ATLANTIC REFINING COMPANY

Well. 2-9-6-8-W1

Kind of Sample Core

Core Hole. Number 3

Date Received August 24, 1965

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Specific Gravity 0.958 at $60/60^{\circ}$ F. A.P.I. Gravity 16.2 at $60/60^{\circ}$ F.

Yields Are Reported In U.S. Gallons

NU"BER	HOLE	INTERVAL	BAG NUMBER	OIL <u>GAL/TON</u>	WATER GAL/TON	BULK DENSITY
1	3	177° - 180°	1	<0.1	47.8	2.00
2	3	177" - 180"	2	0.7	52.1	2.02
3	3	177* - 180*	3	2.9	48.2	2.01
4	3	180° - 196°	1	0.3	50.1	2.05
5	3	180 ° - 186°	2	2.7	46.0	2.02
6	3	180° - 186°	3	0.1	47.7	2.06
7	3	180° - 186*	4	0.4	49.2	1.99
8	3	180° - 186°	5	0,3	47.5	2.02
9	3	$180^{\circ} - 186^{\circ}$	6	<0.1	51.6	2.06
10	3	186° - 189°	1	0.4	54.7	1.98
11	3	186° - 189°	2	0.2	50.7	2.06
12	3	186° - 189°	3	0.3	51.0	2.03
13	3	186° - 189°	4	0•3	55.1	2.00
14	3	189° - 200°	1	0.2	53.9	2.00
15	3	189° - 200°	2	0.4	56.2	2.03
16	3	189° - 200°	3	0.2	50.1	2.03
17	3	109° - 200°	4	0.3	52.2	2 .06

Date Reported. September 20, 1965

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<u>lhe Atla</u>	<u>ntic Refi</u>	ning Company		Laborato	ry Report Numb	er <u>C7821</u>
NUMBER	HCLE	INTERVAL	BAG <u>NUMBER</u>	OIL GAL/TON	WATER GAL/TON	BULK DENSITY
18	3	189° - 200°	5	<0.1	51.1	2.04
19	3	189° - 200°	6	0.3	51.1	2.05
20	3	189° - 200°	7	0.2	52 。 9	2.02
21	3	189 ⁹ - 200°	8	0.2	50.0	2,08
22	3	$189^{\circ} - 200^{\circ}$	9	<0.1	50.2	2.07
23	3	189° - 200°	10	<0.1	51.0	2.06
24	3	189° - 200°	11	<0.1	50.5	2.09
25	3	189° - 200°	12	0.8	51.1	2.09
26	3	200° - 215°	1	0•3	56.4	1.96
27	3	200° - 215°	2	0.6	48.0	2.06
28	3	200° - 215°	3	0.3	47.1	2.10
29	3	200° - 215°	4	0.4	45.0	2.08
30	3	200° - 215°	5	1.5	45.7	2.03
31	3	200° - 215°	6	2.7	49.9	1.94
32	3	200° - 215°	7	2.3	41.7	1.95
33	3	200° - 215°	8	1.1	49.3	2.05
34	3	200° - 215°	9	2.2	53.7	1.94
35	3	200° - 215°	10	3.6	49.2	1.97
36	3	200* - 215*	11	4.1	52.7	1.93
37	3	200° - 215°	12	1.2	55 . 3	1.97
38	3	200° - 215°	13	0.5	61.7	1.90
39	3	215° - 227°	1	0.3	64.0	1.84
40	3	215° - 227°	2	2.5	62,2	1.92
41	3	215" - 227°	3	1.0	61.9	1.99
42	3	215" - 227°	4	9.1	40.1	1.99
43	3	215° - 227°	5	5.6	46.8	2.00

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Date Reported. September 20, 1965

The Atlantic Refining Company

Laboratory Report Number C7821

<u>ine Atlai</u>	ntic Keii	uning Company	Laboratory Report Number C7821			
NUMBER	HOLE	INTERVAL	BAG <u>NUMBER</u>	OIL GAL/TON	WATER <u>GAL/TON</u>	BULK DINSITY
44	3	215° - 227°	6	2.8	46.3	1.97
45	3	215° - 227°	7	5.1	40.5	2.05
46	3	215° - 227°	8	1.3	59.8	1.96
47	3	215 - 227"	9	6.9	39.8	2.12
48	3	215° - 227°	10	9.7	37.7	2.05
49	3	215° - 227°	11	0.4	23,9	1.89
50	3	215" - 227"	12	1.2	52.9	2.07
51	3	215* - 227*	13	1.5	43.4	1.92
52	3	227" - 240"	1	2.9	39 。 5	1.96
53	3	227° - 240°	2	3.8	46.4	2.10
54	3	227° - 240*	3	1.5	63.7	1,99
55	3	227° - 240°	4	5.4	44.7	1,98
56	3	227° - 240°	5	2.4	46.8	2.07
57	3	227* - 240*	6	3.7	48.6	2.01
58	3	227° - 240°	7	3.1	51.8	2.01
59	3	227° - 240°	8	4.4	48.7	1.98
60	3	227° - 240°	9	3.8	46.4	1.93
61	3	227° - 240°	10	1.6	49.0	2.03
62	3	227° - 240°	11	4.1	40.8	2.08
63	3	227° - 240°	12	4.8	43.1	2.06
64	3	227° - 240°	13	3.4	46.6	1.99
65	3	227° - 240°	14	3.8	42.4	2 °04
66	3	227° - 240°	15	4.6	41.9	1.97
67	3	240° - 250°	1	4.4	44.2	2.03
68	3	240° - 250°	2	4.5	44.0	2.03
69	3	240° - 250°	3	6.6	41.0	1.95

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The Atlantic Refining Company

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<u>The Atla</u>	<u>ntic Refi</u>	ning Company	Laboratory Report Number. C7821				
NUMBER	HOLE	<u>INTERVAL</u>	BAG NUMBER	OIL <u>GAL/TON</u>	WATER GAL/TON	BULK DENSITY	
70	3	240° - 250°	4	3.1	46.0	1.97	
71	3 [240° - 250°	5	8.7	39.0	2.04	
72	3	240° - 250°	6	11.8	38.3	1,97	
73	3	240° - 250°	7	4.3	41.5	1.95	
74	3,	240° - 250°	8	4.2	41.5	1.96	
75	3,	240° - 250°	9	2.1	43.7	2.10	
76	3 .	240° - 250°	10	3.8	42.8	1.99	
77	3	240° - 250°	11	4.5	41.5	2.13	
78	3	250° - 262°	1	6.2	41.4	2.12	
79	3	250° - 262°	2	1.8	38.2	2.08	
03	3	250° - 262°	3	0.5	40.8	2.11	
81	3	250° - 262°	4	1.6	36.7	2.14	
82	3	250° - 262°	5	1.2	41.8	2.04	
83	3	250° - 262°	6	2.8	42.1	1.93	
84	3	250° - 262°	7	0.9	43.3	1.84	
85	3	250° - 262°	8	3.1	20.8	2.10	
86	3	250° - 262°	9	1.6	42.8	2.14	
87	3	250° - 262°	10	1.4	44.5	1.94	
88	3	250° - 262°	11	5.6	42.4	1.91	
89	3	250° - 262°	12	3.9	44.9	2.03	
90	3	250° - 262°	13	2.1	43.0	1.90	
91	3	262° - 278°	1	2.0	42.9	2.03	
92	3	262° - 278°	2	1.5	43.6	1.99	
93	3	262° - 278°	3	1.8	39,3	2 . 03	
94	3	262° - 278°	4	1.1	43,3	2.07	
95	3	262° - 278°	5、	4.2	41.7	2.04	

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The Atlantic Refining Company			<u>l iborato</u>	Liboratory Report Number 67821		
NUMBER:	HOLE	INTLEVAL	BAG NUMBER	OIL <u>GAL/TON</u>	WA'I LR GAI /TON	BULK <u>DENSITY</u>
96	3	262° - 278°	6	5.3	42.6	1.90
97	3	262° - 278°	7] •]	42,2	2.08
98	3	262° - 278°	8	2,5	39.3	2,08
99	3	262° - 278°	9	1.0	40.4	2.07
100	3	262° - 278°	10	4.2	43.8	2.01
101	3	262° - 278°	11	5.1	42.5	1.93
102	3	262° - 278°	12	4.1	40.0	1.85
103	3	262° - 278°	13	2,5	46.2	1.96
104	3	262° - 278°	14	3.3	45.7	2.03
105	3	278° - 292°	1	3.9	46.3	1.92
106	3	278° - 292°	2	2,2	48.6	1.96
107	3	278° - 292°	3	2.2	<u>48.0</u>	1.93
108	3	278* - 292*	4	3.2	46.0	1.93
109	3	278° - 292°	5	2.6	44.1	1.85
110	3	278° - 292°	6	1.6	48.0	1.84
111	3	278° - 292°	7	4.0	48.5	1.85
112	3	278° - 292°	8	2.5	51.9	1.32
113	3	278° - 292°	9	4.8	42.7	1.84
114	3	278° - 292*	10	4.2	52.8	1.76
115	3	278° - 292°	11	4.6	51,7	1.80
116	3	278° - 292°	12	4.5	51.3	1.78
117	3	278° - 292°	13	3.3	42.8	1.83
118	3	278° - 292°	14	4.5	50.9	1.81
119	3	278° - 292°	15	2.2	52.9	1.77
.20	3	292° - 306°	1	3.4	53.0	1.87
21	3	292* - 306*	2	1.8	55.0	1.86

the Atlantic Refining Company			Laboratory Report Number C7821			
NUMBER	HOLE	INTERVAL	BAG NU'IBER	OIL <u>GAL/TON</u>	WATER GAL/TON	BULK DENSITY
122	3	292* - 306*	3	4.6	52.1	1.82
123	3	292° - 306°	4	2.3	50.2	1.87
124	3	292° - 306°	5	3.3	51,2	1.91
125	3	292° - 306°	6	1.6	56.8	1.82
126	3	292° - 306°	7	1.7	53.1	1.84
127	3	292° - 306°	8	1.5	52.5	1.93
128	3	292° - 306°	9	0.5	50 . 7	2,02
129	3	292° - 306°	10	1.8	52.6	1.87
130	3	292° - 306°	11	2,9	51.1	1.82
131	3	292° - 306°	12	0.8	47.6	1,88
132	3	292° - 306°	13	1.2	。43.7	1,96
133	3	292° - 306°	14	3.6	44.2	1.85
134	3	306° - 319°	1	3.3	49.4	1.80
135	3	306° - 319°	2	3.2	50,2	1.88
136	3	306* - 319*	3	4.1	48.7	1.93
137	3	306° - 319°	4	3.4	47.7	1.85
138	3	306° - 319°	5	1.8	47.6	1,90
139	3	306° - 319°	6	1.8	41.3	1.86
140	3	306° - 319°	7	1.8	42.8	1.90
141	3	306° - 319°	8	0.1	37.9	2.02
142	3	306° - 319°	9	1.0	39.8	2.01
143	3	306° - 319°	10	0.8	36.4	1,99
144	3	306* - 319*	11	0.5	37.7	2.05
145	3	306° - 319°	12	0.3	22.8	2,15
146	3	306* - 319*	13	0.1	32.1	2.08
147	3	306° - 319°	14	0.3	33.5	2.13

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The Atlantic Refining Company			Laboratory Report Number 67821			
NUMBER	HOLE	INTLPVAL	BAG <u>NUMBFR</u>	OIL <u>GAL/TON</u>	"ATLR GAI / LON	BULK DLNSITY
148	3	319° - 334°	1	0.5	24.1	2.16
149	3	319° - 334°	2	1.2	34.3	2,21
150	3	319° - 334°	3	1.4	32.3	2.26
151	3	319° - 334°	4	0.5	31.0	2.23
152	3	319° - 334°	5	0.6	26.4	2.20
153	3	319° - 334°	6	0.2	25.1	2.26
154	3	3 19° - 334°	7	1.0	35.2	2.22
155	3	319° - 334°	8	0.3	25.7	2.28
156	3	319° - 334°	9	0.5	29.2	2.25
157	3	319° - 334°	10	0.1	29.9	2.18
158	3	319" - 334"	11	0.4	29.9	2.16
159	3	319° - 334°	12	1.0	31.5	2.20
160	3	319° - 334°	13	0.3	32.6	2.20
- 161	3	319° - 334°	14	0.6	30.0	2.19
162	3	319° - 334°	15	0.9	36.1	2.14
163	3	334° - 347°	1	1.0	38,1	2.08
164	3	334° - 347°	2	1.6	37.1	2.17
165	3	334" - 347"	3	0.3	35.8	2.15
166	3	334° - 347°	4	2.0	39.0	2.18
167	3	334° - 347'	5	4.8	37.3	2.12
168	3	334° - 347°	6	3.0	40.7	1.88
169	3	334 ° - 347 °	7	5.4	43.1	2.11
170	3	334° - 347°	8	4.2	36.2	2,15
171	3	334° - 347°	9	4.8	37.4	2,11
172	3	334" - 347"	10	5.7	40.0	2.05
173	3	334" - 347"	11	2.1	36.1	2.03

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ompany		Laboratory	Report Number	C7821
CRVAL	BAG	OIL	WATLR	BULK
	<u>NU'IBLR</u>	<u>GAI/TON</u>	GAL/TON	DENSITY

NUNBe R	IOLE	INTERVAL	BAG <u>NUIBLR</u>	OIL Gai/ton	WATLR GAL/TON	BUL K DENSITY
174	3	334° - 347°	12	2.0	36.4	2.08
175	3	334° - 347°	13	2.9	32.5	2.14
176	3	347° - 360°	1	3.0	36.3	2.12
177	3	347° - 360°	2	3.1	34.7	2.07
178	3	347° - 360°	3	6.7	35.9	2.09
179	3	347° - 360°	4	4.8	31.6	2.16
180	3	347° - 360°	5	5.0	31.3	2,26
181	3	347° - 360°	6	3.5	33.7	2,20
182	3,	347° - 360°	7	1.4	39.5	2.03
183	3	347* - 360*	8	6.6	40.6	1.96
184	3	347° - 360°	9	4.7	38.0	2.00
185	3	347° - 360°	10	1.8	33.9	2.16
186	3	347° - 360°	11	4.7	41.8	1.93
187	3	347° - 360°	12	3.0	37.5	2.09
188	3	347* - 360*	13	4.5	37.6	2,12
189	3	360° - 380°	1	3.8	34.7	2.07
190	3	360° - 380°	2	3.7	38.9	2.09
191	3	360° - 380°	3	5.2	35.5	2,10
192	3	360* - 380*	4	4.0	41.2	1.96
193	3	360° - 380°	5	5.4	34.2	2.14
194	3	360° - 380°	6	4.3	33.1	2.18
195	3	360° - 380°	7	7.2	44.7	2.19
196	3	360° - 380°	8	5.2	34.0	1.93
197	3	360° - 380°	9	6.4	39.6	1.98
198	3	360° - 380°	10	7.0	38.5	1.95
199	3	360° - 380°	11	3.8	30.5	2.58

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NUMBER	<u>110LE</u>	INTERVAL	BAG NUPBLR	OIL GAL/TON	WATLR GAL/TON	BULK DFNS1TY
200	3	360° - 380°	12	3.3	24.7	2.32
201	3	360° - 380°	13	3.5	51.3	1.83
202	3	360° - 380°	14	10.9	46.4	1.81
203	3	360° - 380°	15	4.1	47.4	1.95
204	3	380° - 396°	1	8,3	41.6	1.91
205	3	380° - 390°	2	7.5	45.1	1.91
200	3	380° - 396°	კ	1.3	52.3	1.92
207	3	380° - 396°	4	13.0	48.6	1.73
208	3	380* - 396*	5	9.8	44.6	1.75
209	3	380" - 396"	6	12.2	50.9	1.76
210	3	380° - 396°	7	10.9	53 . 0	1.74
211	3	380° - 396°	8	4.4	55 . 4	1.87
212	3	380° - 395°	9	11.3	51.6	1.77
213	3	380° - 396°	10	9.9	48.3	1.68
214	3	380° - 396°	11	8.0	48.3	2.14
215	3	380° - 396°	12	0.1	35.4	2.10
216	3	380° - 396°	13	0.1	33.9	2.14
217	3	380° - 396°	14	0.4	32.3	2.17
218	3	380° - 396°	15	0.2	33.3	2.18
219	3	396° - 411°	1	0.6	32.8	2.18
220	3	396 - 411°	2	0.4	31.7	2.18
221	3	396° - 411°	3	0 ° 3	32.6	2.17
222	3	396° - 411°	4	0.6	32.2	2.17
223	3	396° - 411°	5	0.2	33.1	2.17
224	3	376° - 411°	6	0.3	34.3	2.18
225	3	396° - 411°	7	0.1	3 3.3	2.18

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The Atlantic Refining Company			Laboratory Report Number C7821			
NUURLR	HOLE	INTELVAL	BAG NIMBI R	OIL <u>GAL/TON</u>	WATER GAL/TON	BULK DENSITY
226	3	396° - 411°	8	<0.1	34.4	2.17
227	3	396" - 411"	9	0.1	35.9	2.17
228	3	396° - 411°	10	0.2	33.5	2,19
229	3	396° - 411°	11	0.4 *	34.1	2.20
230	3	396° - 411°	12	0.3	33.2	2.19
231	3	396° - 411°	13	0.5	29.6	2.18
232	б	396° - 411°	14	0.3	33.3	2.19
233	3	396° - 411°	15	0.4	33.2	2.16
234	3	411° - 424°	1	0.4	33.0	2.20
235	3	411° - 424°	2	0.4	35.0	2.19
236	3	411° - 424°	3	0.8	35.9	2.15
237	3	411* - 421*	4	0.4	36.0	2,12
23ರ	3	411° - 424°	5	0.3	35.1	2.16
239	3	411° - 424°	6	0.5	37.0	2.17
240	3	411° - 424°	7	0.4	37.0	2.13
241	3	411" - 424"	8	0.2	32.4	2,19
242	3	$411^{\circ} - 424^{\circ}$	9	0.4	34.2	2.19
243	3	411° - 424°	10	0.2	33.5	2.18
244	3	411° - 424°	11	0.4	31.9	2.20
245	3	411° - 424°	12	0.2	34.4	2.19
246	3	411° - 424°	13	0.2	34.2	2,18
247	3	411° - 424°	14	0.2	33.6	2.15
248	3	₫11° - 424°	15	0.4	37.6	2.17
249	3	424° - 444°	1	0.3	36.4	2.17
250	3	$424^{\circ} - 444^{\circ}$	2	C.4	37.9	2.15
251	3	424° - 414°	3	0.1	36.7	2.14

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NULBER	HOLE	INTERVAL	BAG <u>NUMBER</u>	OII <u>GAL/TON</u>	WATLR GAL/TON	BULK DENSITY
252	3	424° - 414°	4	0,3	38.2	2.11
253	3	424° - 444°	5	0.1	41.1	2.17
254	3	424° - 444°	6	0,2	38.8	2.17
255	3	a 24 ° - 444 °	7	0.6	37.6	2.20
256	3	424° - 444°	8	0.5	36.9	2.16
257	3	424° - 441°	9	0.4	36.2	2.18
258	3	424° - 444°	10	0.4	35.8	2.17
259	3	424° - 444°	11	0.5	36.1	2.20
260	3	424° - 441°	12	0.2	36.7	2.20
261	3	424° - 444°	13	0.2	36.3	2.20
262	3	424° - 444°	14	0.1	37.4	2.23
263	3	424° - 1144°	15	0.1	3 5.6	2,21
264	3	444° - 460°	1	0.4	35.8	2.19
<i>2</i> 65	3	444° - 460°	2	0.2	35.7	2.16
266	3	444° - 460°	3	0.3	35.8	2.15
267	3	444° - 460°	4	0.4	35.4	2.19
268	3 /	444 ° - 460°	5	0.3	36.1	2.18
269	3	444° - 460°	6	0.2	36.4	2.18
270	3	444° - 460°	7	0.5	36.0	2.18
271	3,	444° - 160°	8	0.1	31.1	2.17
272	3 '	444° - 460°	9	0.3	37.6	2.17
273	3	441° - 460°	10	0.1	35,5	2.15
274	3	444° - 460°	11	0.2	37.7	2.14
275	3	444 ° - 460 °	12	0.2	38.0	2.17
276	3	444° - 460°	13	0.4	33.3	2.15
277	3	444° - 460°	14	0.3	39.6	2.17

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NUMBEP	<u>HOL Γ</u>	INTERVAL	BAG NJ ^A BLR	OIL GAU/TON	VATER GAL/TON	BULK <u>DENSITY</u>	
278	3	441° - 460°	15	0.3	37.0	2.16	
279	3	460" - 475"	1	0.6	45.1	2.16	
280	3	460' - 175'	2	0.6	39.3	2,15	
281	3	460° - 473°	3	0.6	36.8	2.16	
282	3	460° - 475°	4	0,5	36.8	2.11	
283	3	460° - 475°	5	0.3	36.4	2.11	
284	3	460° - 475°	6	0.3	30.6	2.15	
285	3	460° - 475°	7	0.3	37.7	2.15	
286	3	460° - 475°	8	0.2	36.6	2.16	
287	3	460° - 475°	9	0.3	37.2	2.17	
288	3	460° - 475°	10	0.4	36.9	2.17	
289	3	460° - 475°	11	0.6	9.6	2.16	
290	3	460° - 475°	12	0.4	37.6	2.16	
291	3	460° - 475°	13	0.2	36.5	2.19	
292	3	450° - 475°	14	0.4	36.4	2.20	
293	3	475° - 488°	l	0.3	41.0	2.41	
294	3	475° - 488°	2	0.3	41.3	2.17	
295	3	475° - 488°	3	0.2	35.7	2.20	
296	3	475° - 488°	1	0.6	34.7	2.24	
297	3	475 * - 488 *	5	0.4	3 .6	2.19	
298	3	475° - 488°	6	0.2	30.8	2.19	
299	3	475° - 188°	7	0.4	35.0	2.21	
300	3	475° - 488°	8	0.4	36.9	2.08	
301	3	475° - 488°	9	0.2	34.1	2.21	
302	3	- 475° - 488°	10	0.1	35.1	2.21	
303	3	475 " - 488°	11	0.3	27.3	2.21	

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NUIPLR	HOLE	INTLRV4	BAG NUMBLR	OIL GAL/ION	VA FLR GAL/TON	BUT K DENSILY	
304	3	475* - 488*	12	0.3	34.6	2.21	
305	3	475° - 488°	13	0.3	35.7	2.20	
306	3	488° - 500°	1	0.6	37.1	2.21	
307	3	488° - 500°	2	0.5	35,2	2.19	
308	3	488° - 500°	3	0.6	36.0	2.17	
309	3	488° - 500°	4	0.3	36.5	2.15	
310	3	488° - 500°	5	0.8	37.4	2.16	
311	3	488" - 500"	6	1.1	36.9	2.16	
312	}	489* - 500*	7	0.5	38.5	2.16	
313	3	488° - 500°	8	0.8	37.4	2.12	
314	3	408* - 500*	9	0.5	38.6	2.25	
315	3	488° - 500°	10	0.8	12.6	2.13	
316	3	488° - 500°	11	0.9	37.7	2.17	
317	3	488° - 500°	12	0.2	39.3	2.18	

DRILLING PROGRAMME

Atlantic Core Hole' No. 4

35' South of South Bdy, Sec 127, 1-1-6 W 1320; West, of Fort Bdy, Sec 27 -1-6 W

Location: South of Lsd. 1, Sec. 27, Twp. 1, Rge. 6. W.P.M.

AUG 2

To core the Vermilion River and Favel' formations.

Estimated ground elevation 1460"

585' or base of the Favel formation.

Induction Blectric log.

2" scale: T D. to surface casing. 5" scale: T.D. to surface casing.

Formation Density log.

2" scale: T.D. to surface at 500-1500 API counts. 5",5", scale: T.D. to surface at 500-1500 API counts.

1 field copy each to (i) wellsite geologist (ii) exploration - Calgary (iii) Dallas

First core will be cut at 150' in the Vermillon River Boyne member and coring will be continuous to the base For the Favel formation at approximately 585'

Drill cuttings will be caught from base of glacial drift

Depth' Arg '

Subsea

"Estimated Formation Tops:

Project:

Elevation

Surveys:

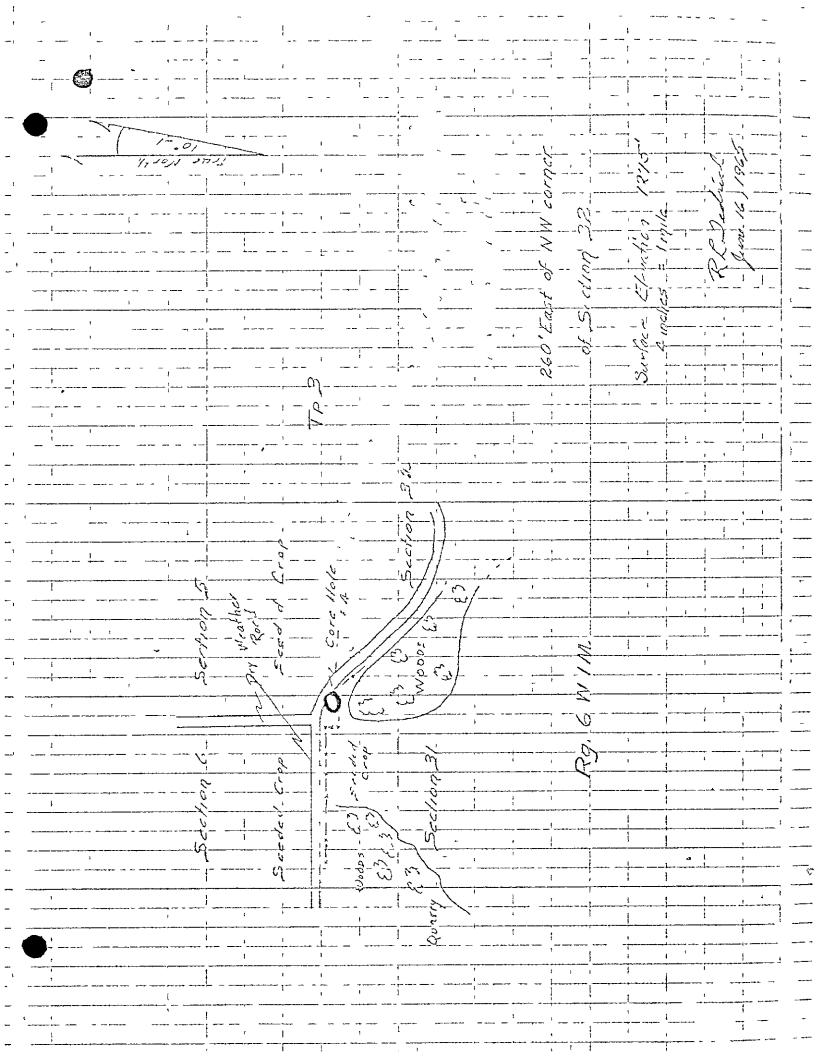
Coring: C

Samples Samples

-Total - Depth

Cretaceous +1450Riding Mountain . 10 🗠 Pembina Mbr. +1380 ×, 80 150 🐨 +1310 Boyne Mbr. 290 +1170 Morden Mbr. Favel Fm. 465 `+995 585 +875; F.D. -

... ATLANTIC REFINING COMPANY PLAN OF COREHOLENO 4 (27-1-GWPM) Between Sections 22 & 27, Twp | Rge 6 W PM MANITOBA Scale 1/n= 100Ff $A \perp \perp N'CE$ 5E 1/4 SEC 27 - 1 - 6WPM -1320 -CORE HOLE 66 ROAD 99 ALLNCE Pit Micestrayed CHON NE 1/4 SEC 22-1-6 WPM Ground elevation of core hole location is 1460 (by aneroid barometer) and is referred to Bench Mark 1534C in Morden Survey and plan are certified correct Survey was made July 15th, 1965 MLS 63A719 15- /3



(B-3 #4

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CHEMICAL & GEOLOGICAL LABORATORIES LTD

EDMONTON - CALGARY - FORT ST JOHN

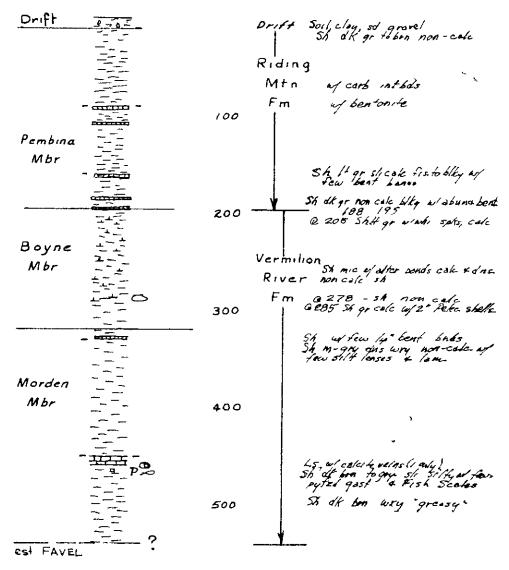
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The Atlantic Refining Company

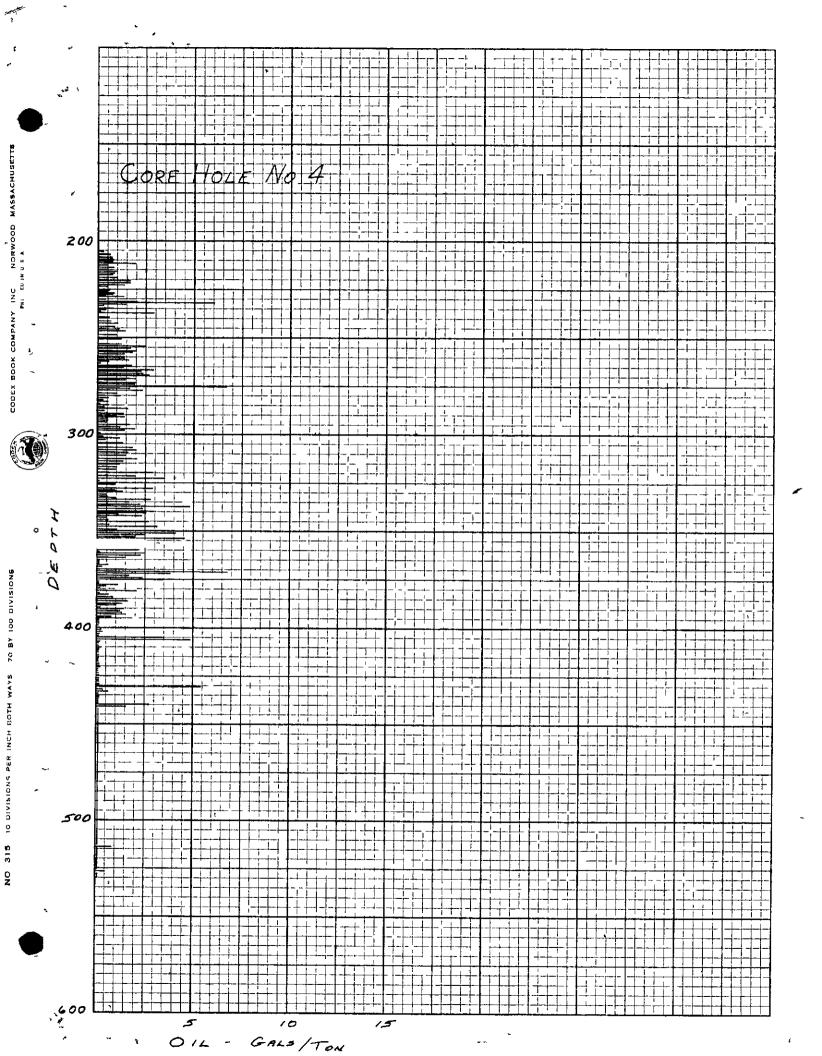
CORE HOLE No 4

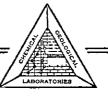
Lsd 1-27-1-6W1 KB 1460

e p



TD 540'





CHEMICAL & GEOLOGICAL LABORATORIES LTD

14240 115 AVENUE EDMONTON ALBERTA

Date Reported September 28, 1965 Laboratory Report Number C7872

THE ATLANFIC REFINING COMPANY

Location Lsd 1-27-1-6-WIM

kind of Sample. Core (Shale)

Date Received September 8, 1965

Composite Specific Gravity. 0.954 Composite A.P.I. Gravity 16.8

Yields Are In U.S. Gallons/lon

NUTIBEP	HOLE	INTERVAL	B 1G <u>NUmBLR</u>	OIL <u>Gai/ton</u>	WATER <u>G \L/1 ON</u>	BULK <u>DLNSITY</u>
1	4]	188* - 210*	1	0.1	66.5	1.87
2			2	0,3	5€.9	1.82
3			3	0.4	59.3	1,88
4			Δ	0.4	57.4	1.88
5			5	2.2	49.7	1.91
6			6	0.4	60.6	1.94
7			7	0.3	57.0	1.91
8			8	1.3	49.4	1.90
9			9	0.1	38.9	1,98
10			10	0.3	56.2	1.89
11			11	0.7	54.2	1,85
12			12	0.2	56.7	1.78
13			13	0,2	51.7	1.08
14			14	0.6	50.8	1.90
15			15	0.8	49.8	1.82
16	4	210° - 224°	1	0.7	48.8	1.93

Continued Page 2

Date Reported September 20, 1965

The Atlantic Refining Company

Laboratory Report Number C7872

NUMBER	HOLE	INTERVAL	BAG <u>NUMBLR</u>	OIL <u>Gal/<i>I</i>un</u>	WATER GAL/TON	BULK DENSITY
17	4	210* - 224*	2	0.7	49.6	1.93
18			3	1.9	55,5	1.89
19			4	0,5	50.4	1.92
20			5	0,8	48.9	1,93
21			6	0.7	49.2	1,95
22			7	1.0	50.5	1.93
23			8	0.9	53.8	1.84
24			9	0.7	60.1	1.93
25			10	1.5	51.5	1.83
26			11	1.0	55.9	1,90
27			12	1.7	58 . 8	1.89
28			13	1.7	55.0	1.76
29			11	1.3	54.4	1.87
30			15	0.5	51.7	1.84
31	4	224* - 235*	1	1.0	55.9	1,81
32			2	1,1	55.5	1.80
33			3	0.6	52,3	1,08
34			4	0.5	53.3	1.84
35			5	0 ° 8	55,9	1.92
36			6	0•7	52,7	1.97
37			7	0.43	49.6	2.03
38			8	1.3	56.2	1.95
39			9	0.3	53.9	1.93
40			10	1.0	57.1	1,80
11			11	2.0	56.8	1.84
42			1.2	6.0	50,9	1,75

Continued Page 3

Date Reported: September 28, 1965

The Atlantic Pefining Company

Laboratory Report Number 67872

NUMBER	HOLE	INTERVAL	BAG NUMBER	OIL GAL/JON	WATER GAL/TON	BULK DENS TTY
43	4	224* - 235*	13	1.4	56 .7	1.84
44			14	0.2	54,8	1.75
45			15	0.1	53.2	1.91
46			16	0.8	58 .7	1,086
47	4	235° - 255°	1	0.1	47.2	1.65
48			2	0.1	47.7	1.94
49			S	2.9	49.9	1.96
50			4	0.6	36.8	1.85
51			5	0.7	50.5	1,83
52			6	1.0	54.6	1.97
53			7	0.8	56.5	1.97
54			8	1.0	55.0	1.98
55			9	1.1	53.9	2,03
56			19	1,0	51.8	2.01
57			11	1.0	60.8	1,84
58			12	1.5	58.9	1,82
59			13	1.2	57.6	1.74
60			14	2.4	66.1	1.85
61	4	255° - 269°	1	1.5	58.8	1.85
62			2] •9	46.1	2.02
63			3	1.7	49.3	1.91
64			4	0.9	48.4	1,90
65			5	1.3	50.7	1.83
66			6	1.3	52.5	1.81
67			7	1.6	54.7	1.73
68			8	0.6	46.0	1.70

The Atlantic Refining Company			[abovet	Donout M. 1	ለክስምሳ	
NUMBER	HOLE	INTER VAL	BAG		<u>Report Number</u>	
			NUIBER	OIL <u>GAL/TON</u>	WATLR <u>GAL/JON</u>	BULK <u>DLNSIT</u>
69	4	255" - 269"	9	0.2	76 . C	1.96
70			10	1.7	62.1	1.63
71			11	1.7	60.1	1.77
72			12	1.1	56.1	1 . 78
73			13	2,9	59.9	1.73
74			14	2,3	57.4	1.80
75			15	2.4	57.6	1.77
76			16	2.7	56.3	1.77
77	4	269* - 283*	1	2.3	61.4	1.73
78			2	1.9	59.5	1.86
79			3	1.4	60,4	1.72
80			1	2.0	56.3	1,77
81			5	1.9	58,1	1.81
82			6	4.3	58.0	1.67
83			7	6.7	58.1	1.79
84			8	1.7	54.4	1.81
85			9	2.3	59.4	2,12
86			10	1.0	52.4	1.85
87			11	0.5	A4 a ()	2,19
48			12	1.2	50,1	1,82
89			13	0.6	53.6	2,09
90			14	0.3	41.5	2.11
b 1	4	283* - 297*	1	0.5	43,9	2.12
92			2	0.1	39.3	2,13
93			3	0.6	41,1	2.12
94			٥	0.3	42.9	2.09
95	1 I		5	1.6	42,8	2,10

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The Atlantic Refining Company

Date Reported September 28, 1965

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		fining Company		Laborator	<u>v Report Number</u>	<u> </u>
NUMBER	HOLE	INFLEVAL	BAG <u>NUMB_R</u>	OIL <u>GAL/TON</u>	WATER G4L/TON	BULK <u>DENSITY</u>
96	4	283* - 297*	6	ი"კ	45.0	2.11
97			7	1.3	43.5	2.02
98			8	0.8	43.6	2.07
99			9	1.1	44.7	2.08
100			10	0.6	47.3	2.02
101			11	0.6	11.1	2.10
102			12	0.4	44.4	2.10
103			13	1.7	44.1	2.09
104			14	1.2	42.6	2.07
105			15	1.9	48.5	2,06
106	4	297' - 312'	1	1.3	46.1	2.03
107			2	0.1	11.4	2.07
108			3	0.8	47.3	2.03
109			4	1.3	41.8	2.11
110			5	0.3	41.4	2.09
111			6	1.2	42, 3	2,11
112			7	0.4	41.3	2.07
113			8	1.3	40.5	2,07
114			9	1.0	41.4	2.01
115			10	1.8	45.6	1,97
116			11	2.0	47.3	1,97
117			12	1.7	48.9	1.98
118			13	1.6	43,5	1.96
119			14	1.4	41,4	2.07
120			15	2.1	45.7	2.03
121	4	312* - 326*	1	2.1	47.9	1.91
122			2	1,3	37.2	2,25

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Date Reported: September 28, 1965

The Atlantic Refining Company			Laboratory Report Number C787			
NUVBER	HOLE		BAG <u>NUMBLR</u>	OIL <u>GAL/TON</u>	WAIER <u>GAL/ION</u>	BULK DENSITY
123	4	312* - 326*	3	1,0	43.4	2.05
124			4	1.2	45.6	2.04
125			5	1.0	43.5	1,98
126			6	1.0	44.2	2.04
127			7	1.0	44.4	2.01
128			8	2.8	42.3	1.94
129			9	2,5	45.2	1,93
130			10	1,9	44.4	2,05
131			11	3.7	22.1	2.15
132			12	0.1	42.7	1.98
133			13	2•4	45•2	2.00
134			14	0.9	47.2	1.99
135	4	326° - 340°	1	0.5	43.3	2.04
136			2	2.8	48.9	2.02
137			3	0.9	45.0	2.03
138			4	1.3	49.3	2.00
139			ī	0.1	51.2	2.02
140			6	0.4	41.8	2.13
141			7	0.4	46.7	2.00
142			8	0.8	14.1	2.06
143			9	2.7	50.4	2.03
.44			10	1.6	47.9	2.01
.45			11	2.2	49.9	1.92
46			12	3.0	57.1	1.86
47			13	2.3	51.3	1.95
48			14	4.9	49,5	1.96
19			15	2.8	51.7	1,95

Continued Page 7

Date Reported: September 28, 1965

C7872

Laboratory Report Number

The Atlantic Refining Company

NUMBER HOLE INTERVAL BAG OIL WATER BULK NUMBER GAL/TON GAL/ION DENSITY 150 4 340" - 353" 1 2.5 52.3 1.99 151 $\mathbf{2}$ 1.1 47.1 2.03 152 3 2.3 46.2 2.02 1534 0.5 38.3 2.07 1545 **0**•6 32.4 2.23 1556 2.7 **17**.2 2.23 156 7 0.7 35.7 2,06 1578 3.2 48.1 2**.**10 158 9 2.5 53.7 1.98 159 101.0 58.2 1.92 160 11 4.1 46.3 2,06 161 122.4 35.3 2.05 162131.9 54.9 1,98 163 14 4.6 51.8 1.94 <u>360-43</u>, ree and pr 10,11,12 164 431" - 445" 4 1 5.3 34.7 2.18 165 2 0.2 38.1 2.15 166 3 0.6 40.0 2.13 1674 <0.127.2 2.16 168 5 <0.1 38.6 2,18 169 6 <0.141.9 2.17 1707 < 0.140.9 2.20171< 0.18 42.5 2.15 172Q 2.7 43.0 2.17 173101.6 37.8 2.17 174< 0.111 42.8 2.16 17512< 0.141.5 2,05 17613< 0.142.1 2.12 177 14< 0.143.0 2.17

Continued Page 8			Date Report	ted: Septembe	r 28, 1965			
The Atlantic Refining Company				Laboratory	Laboratory Report Number C7872			
NUMB & R	HOLE	INTERVAL	B4G <u>NUMBER</u>	OIL <u>GAL/ION</u>	WATER GAL/FON	BULK <u>DENSITY</u>		
178	4	431* - 445*	15	<0.1	40.1	2.13		
179	4	450°		<0.1	41.3	2.14		
180	4	455°		<0.1	44.9	2.16		
181	4	460°		<0.1	41.3	2.13		
182	4	465°		<0.1	44.9	2.14		
183	4	470°		<0.1	46.0	2,15		
184	4	4 7 5 °		<0.1	43.2	2.15		
185	4	480°		<0.1	41.8	2.17		
186	4	485 °		<0.1	40.8	2.18		
187	1	490 [#]		<0.1	43.0	2.18		
188	4	495°		<0.1	39.1	2.19		
139	4	500*		<0.1	40.7	2.14		
190	4	50 3 °		<0.1	34.3	2,17		
191	4	508*		<0.1	38,9	2,17		
192	4	513*		0.08	40.3	2.13		
193	4	517°		<0.1	37,5	2.13		
191	4	522 *		<0.1	42.4	2.12		
195	4	527°		0.5	42.4	2.12		
196	4	532*		0,1	46.9	2,12		
197	4	537*		0.1	39.9	2.12		
198	4	540*		<0.1	41.1	2,13		
199	4	515'		<0.1	38.1	2,12		
200	Δ	516*		<0.1	34.1	2.11		
201	4	518*		<0.1	40,4	2.11		
202	4	519*		< 0.1	38.4	2.09		
203	4	520°		<0.1	37.9	2,11		

Continued	d	Page 9		Date Report	ed September	28 , 196 ⁻
<u>fhe Atla</u>	ntic Refi	ning Company		Laboratory	Report Number	<u>C7872</u>
NUNBER	HOLE	INTERVAL	BAG <u>NUMBLR</u>	OIL <u>GAL/TON</u>	Nailr <u>Gal/Ton</u>	BULK Density
204	4	521*		<0.1	39.9	2.12
205	4	523 *		<0.1	41.2	2.10
206	4	521*		<0.1	40.7	2.12
207	4	5.26 "		<0.1	40.8	2.16
208	4	5281		<0.1	40.0	2.12
209	1	529		<0.1	41.6	2.10
210	4	530'		<0.1	39.9	2,06

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CHEMICAL & GEOLOGICAL LABORATORIES LTD



Date Reported October 22, 1965

Laboratory Report Number. C7948

THE ATLANTIC REFINING COMPANY

Well Lsd. 1-27-1-6	6 W1	5 W1
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Well Lsd. 1-27-1-6 W1	Kind of Sample Core
Date Received September 8, 1965	Core Hole Number 4
Specific Gravity A.P.I. Gravity:	0.954 at 60/60°F. 16.8° at 60/60°F.

Yields are reported in U.S. gallons

NUMBER	HOLE	INTERVAL	BAG <u>NUMBER</u>	OIL GAL/TON	WATER GAL/TON	BULK DENSITY
1	4	360'-374'	1	2.2	37.3	1.99
2			2	< 0.1	43.0	2.05
3			3	2.5	35.5	2.16
4			4	2.3	37.9	2.08
ູ 5			5	1.5	38.7	2.12
6			6	0.1	38.5	2.13
7			7	< 0.1	37.1	2.15
8			8	< 0.1	42.4	1.99
9			9	0.6	29.3	2.41
10			10	4.2	41.1	1.88
11			11	2.8	40.8	1.80
12			12	6.7	52.0	1.86
13			13	3.8	42.5	2,12
14			14	1.6	38.7	2.12
15		374'-389'	1	2.4	37.4	2.09
16			2	3.4	36.7	2.11
17			3	< 0.1	37.3	2.08
18			4	<0.1	40.5	2.05

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The Atlantic Refining Company

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Date Reported October 22, 1965

Laboratory Report Number C7948

WATER	BU
GAL/TON	<u>DEN</u>
38.7	2.

NUMBER	HOLE	INTLRVAL	BAG <u>NUnBr R</u>	OIL <u>GAL/TON</u>	WATER <u>GAL/TON</u>	BULK <u>DENSITY</u>
19	4	3741-3891	5	1.1	38.7	2.15
20			6	0,5	38.0	2.13
21			7	< 0,1	40.8	2.15
22			8	2.0	37.8	2.16
2 3			9	< 0.1	38.3	2,09
24			10	0.6	38.4	2.15
25			11	0.8	40.5	2.15
26			12	1.3	40.7	2.16
27			13	1.6	37.6	2.15
28			14	1.3	38.5	2.13
29			15	0.9	38.7	2.15
30	4	389'-403'	1	0.2	39.0	2.15
31	4	389'-403'	2	1.4	37.9	2.16
3 2			3	1.0	36.9	2.17
33			4	1.3	37.4	2.13
34			5	1.5	38.5	2.17
35			6	0.7	38.7	2.13
36			7	1.3	37.0	2.19
37			8	< 0.1	40.0	2.12
38			9	< 0.1	40.0	2.13
39			10	0.1	39.0	2.13
40			11	< 0.1	40.4	2.08
41			12	0.1	38.4	2.14
42			13	0.2	37.0	2.17
43			14	0.3	37.3	2,18
44	4	403'-417'	1	< 0.1	37.7	2.17
45			2	< 0.1	38.0	2.13
46			3	3.4	36.3	2.12

Continued Page 3 The Atlantic Refining Company			Date Repor	ted October	22,1965	
			Laboratory Report Number C7948			
NUIBER	HOLE	INTERVAL	BAG <u>NUMBER</u>	OIL <u>GAL/Ton</u>	WATER GAL/TON	BULK <u>DENS I TY</u>
47	4	403'-417'	4	4.8	34.9	2.14
48			5	<0.1	39.8	2.13
49			6	< 0.1	38.4	2.13
50			7	< 0.1	38.4	2.17
51			8	0.2	40.6	2.17
52			9	< 0.1	40.3	2.17
53			10	0.1	37.9	2.17
54			11	< 0.1	40.1	2.14
55			12	< 0.1	42.0	2.15
56			13	< 0.1	39.1	2.17
57			14	< 0.1	37.4	2.15
58	4	417'-431'	1	< 0.1	37.6	2.19
59			2	< 0.1	38.8	2.17
60			3	< 0.1	38.2	2.15
61	4	417'-431'	4	< 0.1	37.3	2.08
62			5	< 0.1	39.2	2.11
63			6	< 0,1	39.2	2.12
64			7	< 0,1	42.7	2.13
65			8	< 0.1	41.0	2.09
66			9	< 0.1	41.0	2.13
67			10	< 0.1	42.3	2,15
68			11	< 0.1	7.6	2.71
69			12	< 0.1	42.2	2.13
70			13	< 0.1	41.3	2.07
71			14	< 0.1	40.9	2.14

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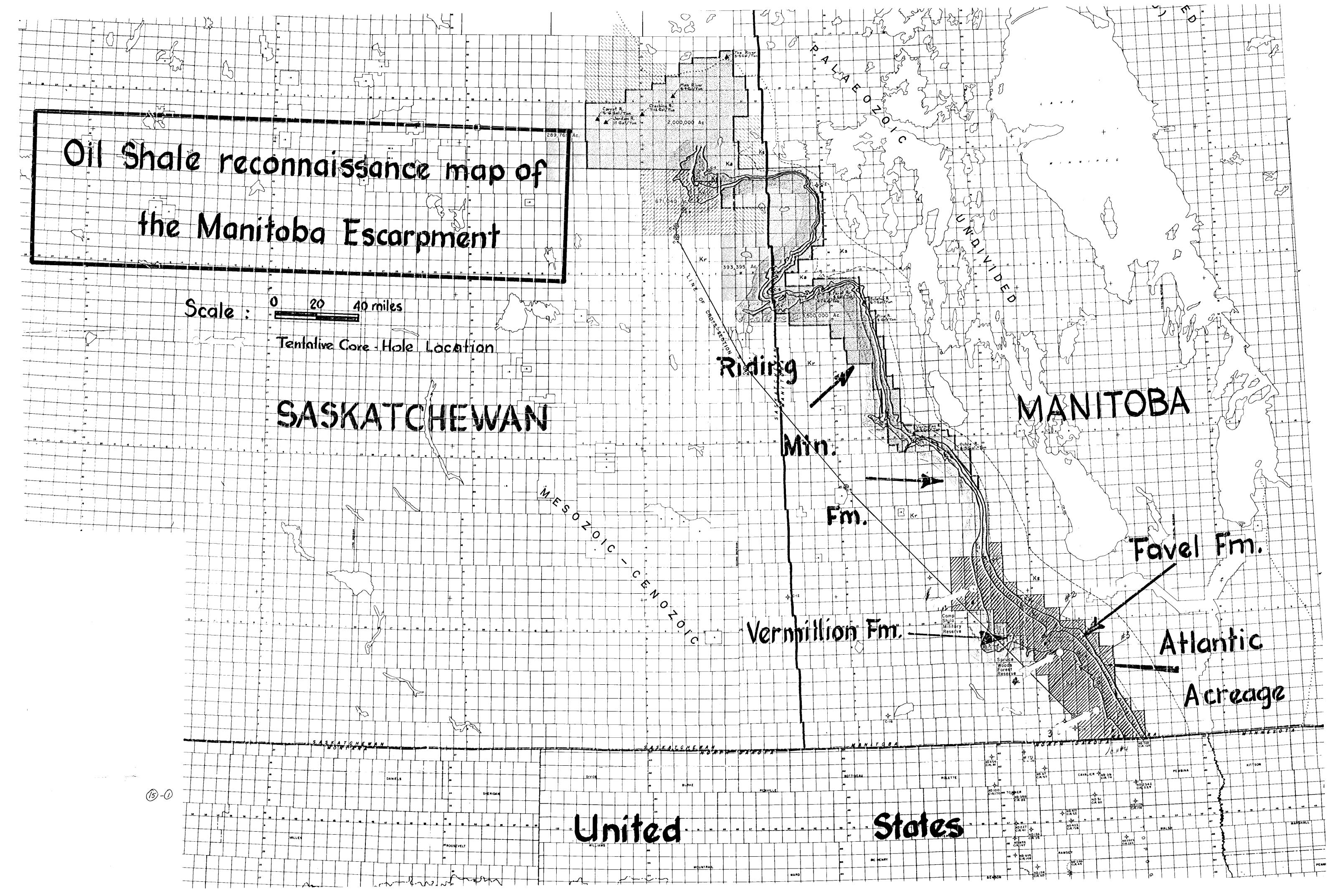
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MANITOBA DEPARTMENT OF MINES AND NATURAL RESOURCES

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Atlantic Refining Co. Su aie Co. + Acquitance Co.

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14Z 101° 55°-10,0° 99° 98° 2 5 OIL SHALE GRASS Lake RIVER Contage Portage PROVINCIA Reed PARK RESERVATIONS CORMORANT FOREST 42-Cormorant Lake Moose CLEARWATER RESERVE Playgreen 54°-~Lake PARK SUN The Pas AQUITAINE ATLANTIC REF. CO. Saska 7 \mathcal{D} Ride \mathbf{z} Cedar (\mathcal{L}) 32 MILES 8 6 Lake 48 64 \sim 53°-47 Red Deer ્યુ \sim 46 Lake ∕95° Dawsor 45 5 5 44

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OF MINES AND NATURAL RESC MINES BRANCH

