

#735

CORE ANALYSIS RESULTS

CP-10-1005

Company	THE PRESTON OIL COMPANY	Formation	AS NOTED	File	CP-1-4854
Well	V-2022	Core Type	DIAMOND	Date Report	8-29-63
Field	GRANNY CREEK	Drilling Fluid	WATER BASE MUD	Analysts	WELBORNE-BOYLE
County	CLAY	State	W. VIRGINIA	Loc. 1152.5	Location HENRY DISTRICT PERMIT CLA-735

Lithological Abbreviations

SAND-SB	DOLOMITE-DOL	ANHYDRITE-ANHY	SANDY-SBY	FINE-FN	CRYSTALLINE-XLM	BROWN-BRN	FRACTURED-FRAC	SLIGHTLY-SL
SHALE-SH	CHERT-CH	CONGLOMERATE-CONG	SHALY-SHY	MEDIUM-MED	GRAIN-GRN	GRAY-GY	LAMINATION-LAM	VERY-V/
LINE-LM	GYPSEM-GYP	FOSILIFEROUS-FOSS	LIMY-LMY	COARSE-CSE	GRANULAR-GRNL	VUGGY-VGY	STYLOLITIC-STY	WITH-W/

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCY		POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
		PERM. MAX.	PERM. 90°		OIL	TOTAL WATER	

BIG LIME FORMATION - WHOLE CORE ANALYSIS

1 ¹¹ ₁₂	1931.0-32.0	<0.1	<0.1	1.6	0.0	36.3	Lm
2 ³³ ₃₄	1933.5-34.5	<0.1	<0.1	1.4	0.0	30.0	Lm
3 ³⁷ ₃₈	1937.0-38.0	<0.1	<0.1	1.8	0.0	91.7	Lm, sl/shy
4 ³⁹ ₄₀	1939.4-40.5	<0.1	<0.1	1.2	0.0	75.0	Lm
5 ⁴¹ ₄₂	1943.8-45.0	<0.1	<0.1	20.7	2.7	57.1	Lm
6 ⁴³ ₄₄	1963.3-64.9	<0.1	<0.1	1.1	0.0	66.4	Lm
7 ⁴⁵ ₄₆	64.9-65.5	<0.1	<0.1	2.4	0.0	57.1	Lm
8 ⁴⁷ ₄₈	65.5-66.4	<0.1*		3.3	0.0	75.8	Lm
9 ⁴⁹ ₅₀	66.4-67.4	<0.1	<0.1	2.0	0.0	91.0	Lm
10 ⁵¹ ₅₂	1967.4-68.4	<0.1	<0.1	1.3	0.0	76.9	Lm
11 ⁵³ ₅₄	1978.0-78.6	<0.1	<0.1	1.4	0.0	89.3	Lm, oolitic
12 ⁵⁵ ₅₆	78.6-80.4	<0.1	<0.1	1.2	0.0	73.3	Lm, oolitic
13 ⁵⁷ ₅₈	80.4-82.0	<0.1	<0.1	1.9	0.0	77.9	Lm
14 ⁵⁹ ₆₀	82.0-83.5	<0.1	<0.1	1.8	0.0	62.8	Lm
15 ⁶¹ ₆₂	83.5-84.7	<0.1	<0.1	1.2	0.0	29.2	Lm
16 ⁶³ ₆₄	84.7-86.0	<0.1	<0.1	2.1	0.0	49.0	Lm, sl/vgy
17 ⁶⁵ ₆₆	86.0-87.5	<0.1	<0.1	0.9	0.0	45.6	Lm
18 ⁶⁷ ₆₈	87.5-89.2	<0.1	<0.1	1.2	0.0	43.3	Lm
19 ⁶⁹ ₇₀	89.2-90.9	<0.1	<0.1	1.0	0.0	52.0	Lm
20 ⁷¹ ₇₂	90.9-92.1	<0.1	<0.1	0.9	0.0	57.8	Lm, sl/shy, vert frac
21 ⁷³ ₇₄	92.1-93.8	<0.1	<0.1	1.2	0.0	37.5	Lm
22 ⁷⁵ ₇₆	93.8-95.5	<0.1	<0.1	2.4	0.0	93.3	Lm, sl/shy
23 ⁷⁷ ₇₈	95.5-96.2	<0.1	<0.1	8.2	11.3	79.9	Lm, sl/shy, sl/chalky
24 ⁷⁹ ₈₀	1996.2-97.0	<0.1	<0.1	13.2	29.5	61.0	Lm, sl/sdy, chalky

INJUN FORMATION - CONVENTIONAL ANALYSIS

25	1997.0-98.0	<0.1		7.1	12.7	40.7	
26	98.0-99.0	<0.1		6.0	3.3	63.3	
27	99.0-00.0	33		16.0	18.1	40.5	
28	2000.0-01.0	182	15.8	22.4	17.4	60.8	
29	01.0-02.0	266		19.9	12.1	68.3	150
30	02.0-03.0	21	A-8	19.7	16.7	42.6	
31	03.0-04.0	1.0		16.3	27.0	43.0	
32	1904.0-05.0	<0.1		13.0	19.3	46.0	

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

CORE LABORATORIES, INC.
 Petroleum Reservoir Engineering
 DALLAS, TEXAS

File CP-10-1005, CP-1- Page No. 2
 4854
 Well No. V-2022

CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYs	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER	
33	2005.0-06.0	0.4	11.1	23.4	41.4	
34	06.0-07.0	0.3	8.7	10.2	46.0	
35	07.0-08.0	<0.1	8.8	12.5	44.3	
36	08.0-09.0	0.1	7.4	12.1	33.8	
37	2009.0-10.2	0.7	6.9	13.0	34.8	
38	2011.5-12.0	<0.1	10.2	22.5	37.2	
39	12.0-13.0	<0.1	9.6	23.9	30.2	
40	13.0-14.0	0.7	10.6	16.0	33.9	
41	14.0-15.0	268 ¹⁰⁼⁸	16.1	11.2	34.2	
42	15.0-16.0	41	15.3	10.4	33.4	
43	16.0-17.0	<0.1	9.5	17.9	25.3	
44	17.0-18.0	65	15.5	12.2	31.5	
45	18.0-19.0	17	15.9	10.1	52.7	
46	19.0-20.0	23	12.0	14.1	30.0	
47	20.0-21.0	<0.1	2.2	0.0	77.5	
48	21.0-22.0	12	18.4	15.8	38.0	
49	22.0-23.0	<0.1	7.8	19.2	38.5	
50	23.0-24.0	<0.1	21.7	20.8	52.5	
51	24.0-25.0	0.1	18.3	22.4	33.4	
52	25.0-26.0	43	26.8	10.1	39.6	
53	26.0-27.0	4.4	21.9	13.7	39.7	
54	27.0-28.0	1.6	11.3	23.9	65.3	
55	28.0-29.0	5.1	24.4	14.4	35.7	
56	29.0-30.0	6.3	18.5	19.5	46.5	
57	30.0-31.0	2.5	20.6	15.5	41.7	
58	31.0-32.0	2.8	21.8	15.2	39.9	
59	32.0-33.0	5.4	23.4	15.4	56.8	
60	33.0-34.0	8.0 ²⁰	23.0	15.7	50.0	
61	34.0-35.0	9.3	21.9	16.5	53.9	
62	35.0-36.0	17	23.2	15.1	49.6	
63	36.0-37.0	6.7	22.3	17.9	50.5	
64	37.0-38.0	1.0	20.2	16.3	54.9	
65	38.0-39.0	2.7	20.6	15.5	54.8	
66	39.0-40.0	1.6	19.6	14.2	52.0	
67	40.0-41.0	1.0	16.8	13.1	52.3	
68	41.0-42.0	<0.1	15.1	16.6	72.1	
69	42.0-43.0	<0.1	15.1	12.6	72.1	
70	2043.0-43.6	<0.1	17.5	8.0	62.3	
71	2044.5-45.0	<0.1	15.4	14.8	58.7	
72	2045.0-46.0	<0.1	15.4	14.8	58.7	

1274

1988

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.