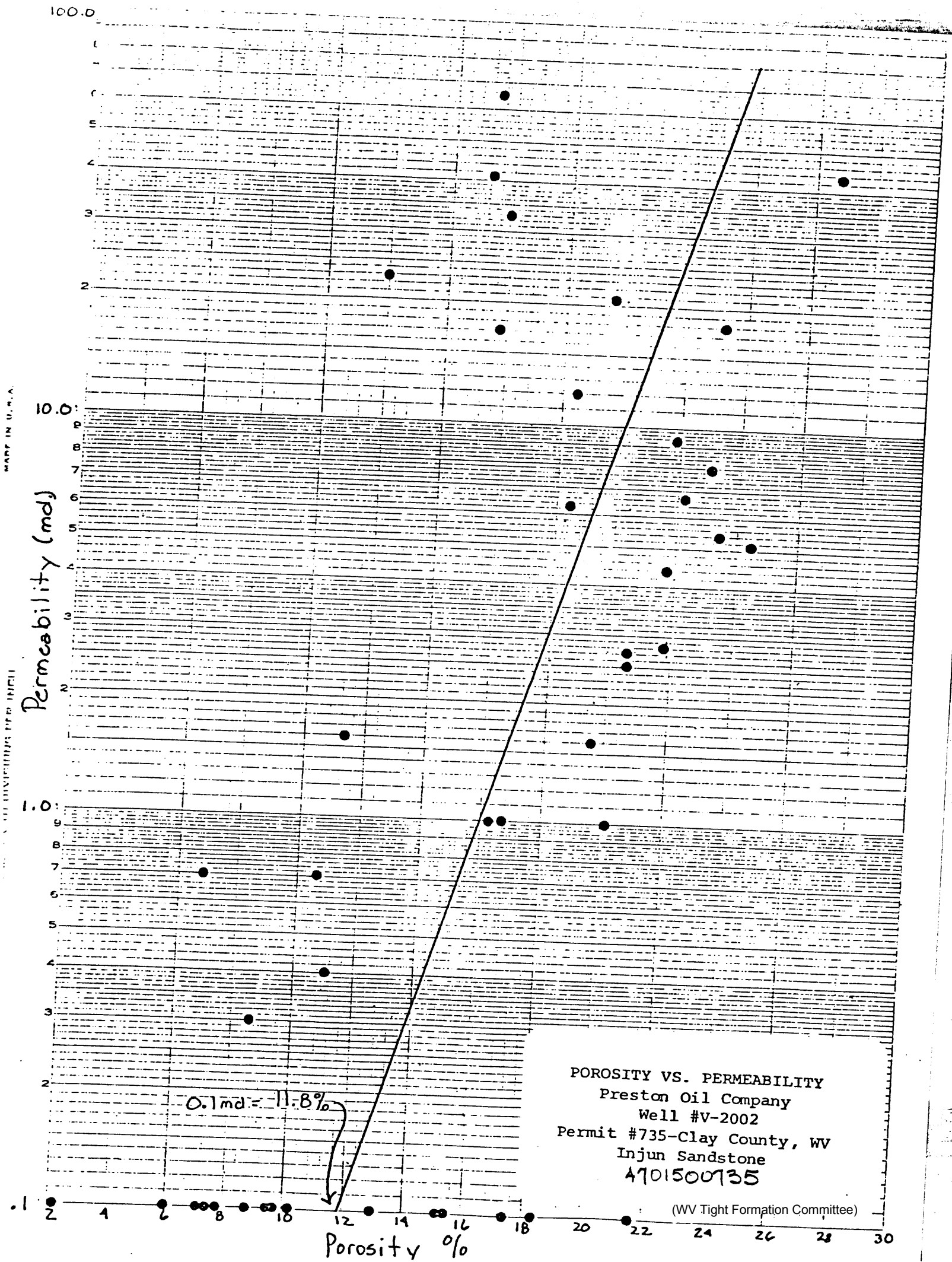


MADE IN U.S.A.



POROSITY VS. PERMEABILITY  
 Preston Oil Company  
 Well #V-2002  
 Permit #735-Clay County, WV  
 Injun Sandstone  
 4701500735

(WV Tight Formation Committee)

41-54

Clay-735

CORE LABORATORIES, INC.  
Petroleum Reservoir Engineering  
DALLAS, TEXAS

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 Elev. 1152.5 Location HENRY DISTRICT PERMIT CLA-735

Lithological Abbreviations

SAND-SD SHALE-SH LIME-LM	DOLOMITE-DOL CHERT-CH GYPSUM-GYP	ANHYDRITE-ANHY CONGLOMERATE-CONG FOSSILIFEROUS-FOSS	SANDY-SDY SHALY-SHY LIMY-LMY	FINE-FN MEDIUM-MED COARSE-CSE	CRYSTALLINE-XLN GRAIN-GRN GRANULAR-GRNL	BROWN-BRN GRAY-GY VUGGY-VGY	FRACTURED-FRAC LAMINATION-LAM STYLOLITIC-STY	SLIGHTLY-SL/ VERY-V/ WITH-W/
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SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCS		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	1931.0-32.0	<0.1	<0.1	1.6	0.0	36.3	Lm
2	1933.5-34.5	<0.1	<0.1	1.4	0.0	30.0	Lm
3	1937.0-38.0	<0.1	<0.1	1.8	0.0	91.7	Lm, sl/shy
4	1939.4-40.5	<0.1	<0.1	1.2	0.0	75.0	Lm
5	1943.8-45.0	<0.1	<0.1	20.7	2.7	57.1	Lm
6	1963.3-64.9	<0.1	<0.1	1.1	0.0	66.4	Lm
7	64.9-65.5	<0.1	<0.1	2.4	0.0	57.1	Lm
8	65.5-66.4	<0.1*		3.3	0.0	75.8	Lm
9	66.4-67.4	<0.1	<0.1	2.0	0.0	91.0	Lm
10	1967.4-68.4	<0.1	<0.1	1.3	0.0	76.9	Lm
11	1978.0-78.6	<0.1	<0.1	1.4	0.0	89.3	Lm, oolitic
12	78.6-80.4	<0.1	<0.1	1.2	0.0	73.3	Lm, oolitic
13	80.4-82.0	<0.1	<0.1	1.9	0.0	77.9	Lm
14	82.0-83.5	<0.1	<0.1	1.8	0.0	62.8	Lm
15	83.5-84.7	<0.1	<0.1	1.2	0.0	29.2	Lm
16	84.7-86.0	<0.1	<0.1	2.1	0.0	49.0	Lm, sl/vgy
17	86.0-87.5	<0.1	<0.1	0.9	0.0	45.6	Lm
18	87.5-89.2	<0.1	<0.1	1.2	0.0	43.3	Lm
19	89.2-90.9	<0.1	<0.1	1.0	0.0	52.0	Lm
20	90.9-92.1	<0.1	<0.1	0.9	0.0	57.8	Lm, sl/shy, vert frac
21	92.1-93.8	<0.1	<0.1	1.2	0.0	37.5	Lm
22	93.8-95.5	<0.1	<0.1	2.4	0.0	93.3	Lm, sl/shy
23	95.5-96.2	<0.1	<0.1	8.2	11.3	79.9	Lm, sl/shy, sl/chalky
24	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	
A 29	01.0-02.0	266		19.9	12.1	68.3	15)
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	

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CORE LABORATORIES, INC.  
Petroleum Reservoir Engineering  
DALLAS, TEXAS

File CP-10-1005, CP-1-  
4854 Page No. 2  
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=B	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 7D	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	

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