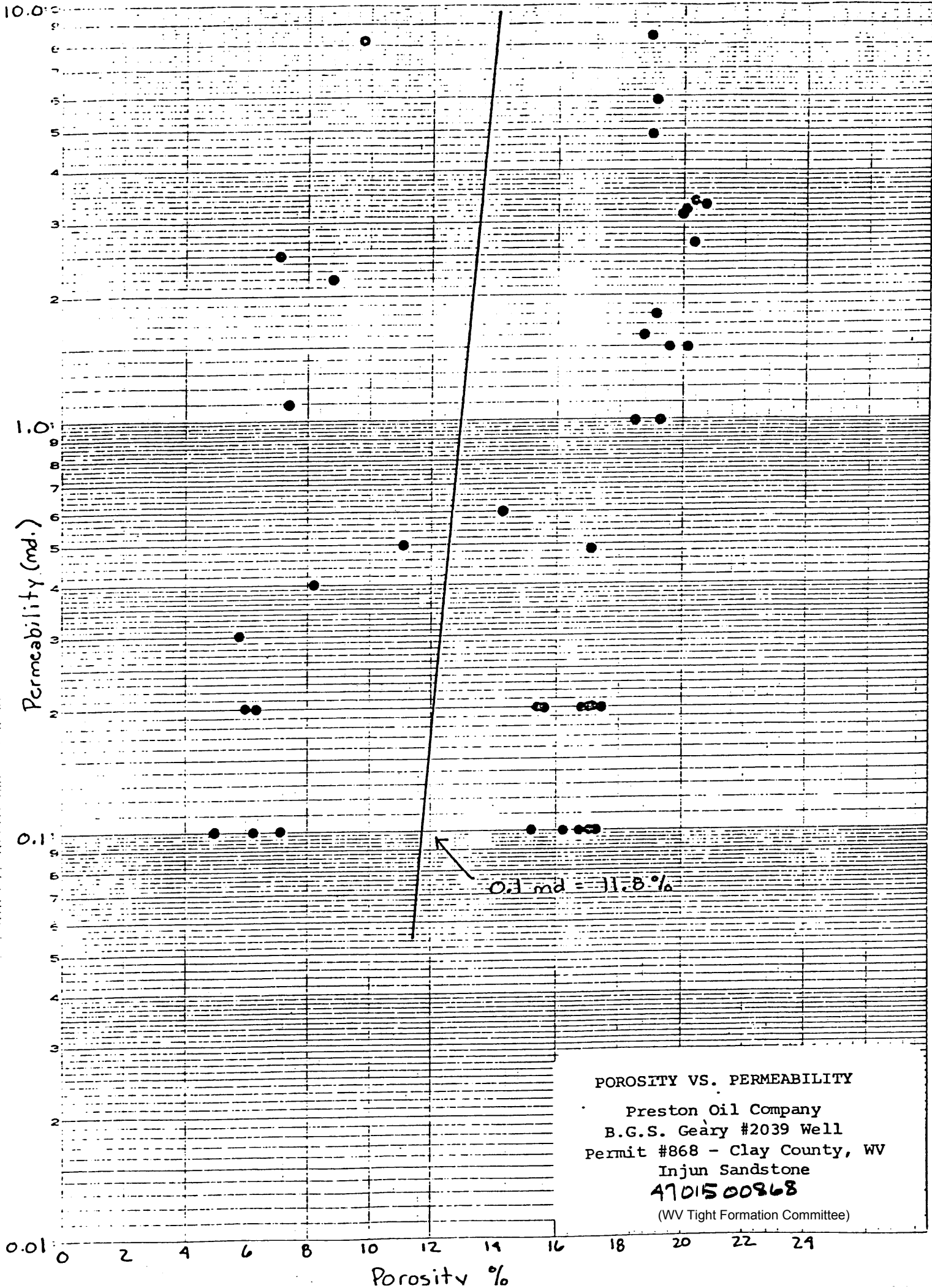


DIST. BY PERM. CORP. MADE IN U.S.A.

PERM. CORP. DIST. BY PERM. CORP. MADE IN U.S.A.



POROSITY VS. PERMEABILITY
Preston Oil Company
B.G.S. Geary #2039 Well
Permit #868 - Clay County, WV
Injun Sandstone
47015 00868
(WV Tight Formation Committee)

41-54

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

Clay - 868

Page No. 1

CORE ANALYSIS RESULTS

Company PRESTON OIL COMPANY Formation Big Injun File CP-1-6876
Well B. G. S. GEARY NO. 2039 Core Type DIAMOND Date Report 2-5-69
Field GRANNYS CREEK Drilling Fluid WATER BASE MUD Analysts BOYLE
County CLAY State W. VA. Elev. _____ Location _____

Lithological Abbreviations

SAND. SD SHALE-SH LIME-LM DOLOMITE-DOL CHERY-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/

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	
WHOLE CORE ANALYSIS							
1	1892-93	<0.1	<0.1	2.1	6.5	72.2	Sd, lmy
2	93-94	<0.1	<0.1	1.3	0.0	90.0	Lm, sdy
3	94-95	<0.1	<0.1	1.0	Tr	87.5	Lm, sdy
4	95-96	<0.1*		1.2	0.0	62.5	Lm, sdy
5	96-97	<0.1	<0.1	1.3	0.0	75.0	Lm, sl/sdy, sl/shy
6	97-98	<0.1	<0.1	1.2	0.0	71.4	Lm, sdy
7	98-99	<0.1	<0.1	1.2	Tr	77.8	Lm, sl/sdy
8	99-00	<0.1	<0.1	1.3	0.0	81.8	Lm, sl/sdy
9	1900-01	<0.1	<0.1	1.3	0.0	90.0	Lm, sdy
	01-17						Not submitted
10	17-18	<0.1	<0.1	0.9	0.0	85.7	Lm
11	18-19	<0.1	<0.1	1.0	0.0	88.9	Lm
12	19-20	<0.1	<0.1	11.1	26.3	65.8	Siltstone, lmy, sl/shy
13	20-21	<0.1	<0.1	11.6	18.4	67.7	Siltstone, lmy, sdy
14	21-22	0.2	0.2	6.0	4.8	75.5	Sd, lmy
15	22-23	2.2	2.0	8.8	8.9	60.6	Sd, sl/lmy
16	23-24	8.3	8.1	9.8	26.6	47.2	Sd, sl/lmy
17	24-25	0.4	0.4	8.2	21.8	52.9	Sd, sl/lmy
18	25-26	1.1	1.0	7.5	17.8	47.2	Sd, sl/lmy
19	26-27	0.1	0.1	6.3	9.0	51.9	Sd, sl/lmy
20	27-28	0.1	0.1	5.0	6.2	60.5	Sd, sl/lmy
21	28-29	0.1	0.1	7.1	6.5	50.0	Sd
22	29-30	0.3	0.3	5.8	5.6	52.4	Sd
23	30-31	0.2	0.2	6.3	5.0	51.1	Sd
24	31-32	0.1*		6.3	2.4	65.3	Sd, sl/shy
25	32-33	0.6*		7.0	6.2	56.1	Sd, sl/lmy
26	33-34	0.3*		6.6	Tr	63.3	Sd, sl/lmy
27	34-35	0.1	0.1	6.3	Tr	63.0	Sd, sl/lmy
28	35-36	2.5	2.5	7.1	3.1	60.5	Sd, lmy
29	36-37	0.1*		6.7	4.7	60.0	Sd, sl/lmy
30	37-38	0.2*		5.3	2.9	65.9	Sd, lmy
31	38-39	2.3*		5.8	2.6	57.8	Sd, sl/lmy
32	39-40	0.5	0.5	11.1	14.9	56.3	Sd
33	40-41	0.6	0.5	14.3	15.3	60.2	Sd
34	41-42	8.6*		14.9	7.0	65.5	Sd, sl/lmy
35	42-43	4.9	4.7	17.2	8.7	62.2	Sd
36	43-44	8.4	8.3	19.0	7.9	61.5	Sd
37	44-45	4.9	4.9	19.0	9.7	57.6	Sd
38	45-46	5.9	5.7	19.2	11.2	56.3	Sd
39	46-47	1.8	1.7	19.2	14.3	57.6	Sd

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-1-6876 Page No. 2

Well B. G. S. Geary No. 2039

CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCS		POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
		MAX.	90°		OIL	TOTAL WATER	
40	1947-48	1.6	1.4	18.8	12.4	60.6	Sd, vert frac
41	48-49	2.7	2.4	20.4	6.9	64.7	Sd, vert frac
42	49-50	3.3	3.0	20.6	6.3	63.1	Sd, vert frac
43	50-51	3.1	2.8	20.0	12.8	55.4	Sd
44	51-52	3.2	3.1	20.1	13.1	57.4	Sd
45	52-53	3.4	3.3	20.4	6.1	63.0	Sd
46	53-54	1.5	1.5	20.1	16.0	53.7	Sd
47	54-55	1.5	1.4	19.7	11.4	56.1	Sd
48	55-56	1.0	0.9	19.3	11.6	55.3	Sd
49	56-57	1.0	0.9	18.5	10.5	59.3	Sd
50	57-58	0.4*		18.1	10.1	60.0	Sd
51	58-59	0.2	0.2	17.5	10.3	66.7	Sd
52	59-60	0.1	0.1	17.1	9.8	65.9	Sd
53	60-61	0.1	0.1	16.8	10.1	68.6	Sd
54	61-62	0.2	0.1	16.9	8.5	65.0	Sd
55	62-63	0.2	0.2	17.1	12.4	64.8	Sd
56	63-64	0.1	0.1	16.3	3.8	68.8	Sd
57	64-65	0.1	0.1	15.2	5.8	65.3	Sd
58	65-66	0.2	0.1	15.4	10.3	62.5	Sd
59	66-67	0.2	0.2	17.2	10.3	64.1	Sd
60	67-68	0.2	0.2	17.1	11.3	63.7	Sd
61	68-69	0.2	0.2	16.8	12.4	63.2	Sd
62	√69-70.7	0.2	0.2	15.7	8.8	67.2	Sd
	1970.7-77.0						Sh

*DENOTES PLUG PERMEABILITY