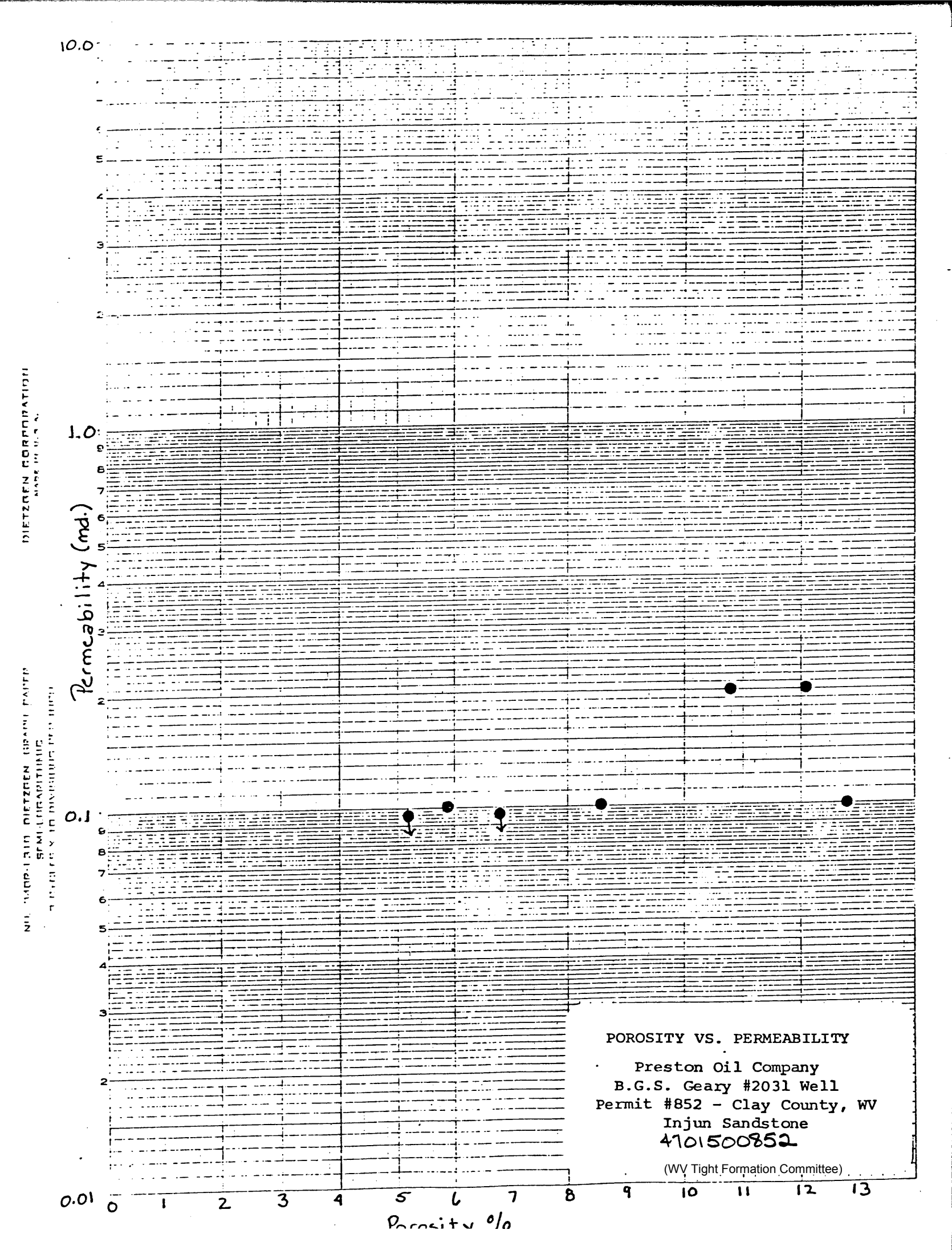
10.0
1.0
0.1
0.01
Permeability (md.)
0
1
2
3
4
5
6
7
8
9
10
11
12
13
Porosity %
POROSITY VS. PERMEABILITY
Preston Oil Company
B.G.S. Geary #2031 Well
Permit #852 - Clay County, WV
Injun Sandstone
4701500852
(WV Tight Formation Committee)

41-54

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

Clay - 852

CORE ANALYSIS RESULTS

Company PRESTON OIL COMPANY Formation BIG LIME-BIG INJUN File CP-1-6748
Well B. G. S. GEARY NO. V-2031 Core Type DIAMOND Date Report 9-20-68
Field GRANNYS CREEK Drilling Fluid SALT WATER Analysts BOYLE
County CLAY State W. VA. Elev. Location

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/

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS PERM. MAX.	PERM. 90°	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE OIL	TOTAL WATER	SAMPLE DESCRIPTION AND REMARKS
	WHOLE CORE ANALYSIS						
1	1740-41	1.5	1.2	2.7	0.0	72.0	Lm, sl/sdy, frac
2	41-42	3.0*		2.4	0.0	64.4	Lm, sl/sdy, frac
	42-47						Not submitted
3	47-48	<0.1*		8.0	8.0	74.7	Lm, sl/shy, sl/sdy
4	48-49	<0.1	<0.1	6.4	1.0	79.6	Sd, lmy
5	49-50	0.1	0.1	7.7	3.1	75.4	Sd, lmy
6	50-51	0.6	0.5	9.1	4.1	64.4	Sd, sl/lmy
7	51-52	5.1	5.0	13.2	4.9	60.3	Sd, sl/lmy
8	52-53	23	22	14.8	6.3	59.7	Sd, sl/lmy
9	53-54	17	16	13.5	5.0	59.6	Sd, sl/lmy
10	54-55	4.8	4.6	12.4	6.3	52.7	Sd, sl/lmy
11	55-56	15	15	16.1	10.0	70.1	Sd, sl/lmy
12	56-57	1.7	1.7	14.0	8.8	55.2	Sd, sl/lmy
13	57-58	4.6	4.5	12.2	8.5	58.4	Sd, sl/lmy
14	58-59	0.3	0.3	6.1	6.7	53.3	Sd, sl/lmy
15	59-60	0.2	0.1	7.4	6.6	57.0	Sd, sl/lmy
16	60-61	0.2	0.2	7.7	8.8	48.9	Sd, sl/lmy
17	61-62	0.3	0.3	8.2	7.2	53.3	Sd, sl/lmy
18	62-63	0.6	0.6	5.8	4.2	54.1	Sd, sl/lmy
19	63-64	0.4*		5.3	4.8	56.0	Sd, sl/lmy
20	64-65	0.5	0.4	8.3	4.8	58.7	Sd, sl/lmy
21	65-66	0.4	0.4	13.1	13.8	63.6	Sd, sl/lmy
22	66-67	0.9	0.9	12.4	15.9	52.7	Sd, sl/lmy
23	67-68	0.2	0.2	12.4	16.1	59.7	Sd, sl/lmy
24	68-69	0.1	0.1	13.7	13.7	66.0	Sd, sl/lmy
25	69-70	1.3	0.7	8.9	10.4	63.4	Sd, sl/lmy
26	70-71	0.2	0.1	15.2	12.5	64.6	Sd, sl/lmy
27	71-72	1.1	1.1	15.3	18.3	58.9	Sd, sl/lmy
28	72-73	0.3	0.3	15.8	17.8	56.5	Sd, sl/lmy
29	73-74	0.1	0.1	13.6	11.5	73.2	Sd, sl/lmy
30	74-75	0.7	0.3	14.3	11.1	60.9	Sd
31	75-76	0.1*		15.2	10.1	56.5	Sd, vert frac
32	76-77	0.3	0.2	15.3	11.2	55.6	Sd
33	77-78	0.1	0.1	15.2	9.1	56.9	Sd

CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS MAX.	90°	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE OIL	TOTAL WATER	SAMPLE DESCRIPTION AND REMARKS
34	1778-79	0.3	0.1	15.5	12.9	52.6	Sd
35	79-80	0.3	0.3	16.1	13.0	53.2	Sd
36	80-81	0.2	0.2	15.5	12.6	53.2	Sd, vert frac
37	81-82	0.1	0.1	15.6	15.8	55.4	Sd
38	82-83	0.2	0.1	15.4	10.6	58.5	Sd
39	83-84	0.2	0.1	15.6	15.5	52.5	Sd
40	84-85	0.4	0.3	16.3	17.6	51.4	Sd
41	85-86	0.5	0.3	15.8	13.0	53.7	Sd, sl/lmy
42	86-87	1.1	1.1	16.5	12.9	50.4	Sd, sl/lmy
43	87-88	1.6	1.5	17.8	13.1	48.2	Sd, sl/lmy
44	88-89	1.5	1.5	18.2	12.2	48.2	Sd, sl/lmy
45	89-90	1.9	1.8	18.5	10.2	49.8	Sd, sl/lmy
46	90-91	2.2	2.0	18.7	8.7	54.0	Sd
47	91-92	1.7	1.6	16.1	10.0	55.2	Sd
48	92-93	1.0	1.0	16.6	10.6	55.7	Sd
49	93-94	0.2	0.2	15.9	15.6	55.4	Sd
50	94-95	<0.1*		5.2	2.4	68.3	Sd, lmy, shy
51	95-96	<0.1*		6.8	6.9	76.9	Lm, sdy, shy
52	96-97	0.2	0.1	10.8	0.6	86.1	Sd, lmy
53	97-98	0.1	0.1	12.8	1.7	86.3	Sd, lmy, silty
54	98-99	0.2	0.2	12.1	2.4	84.6	Sd, lmy, silty
55	99-00	0.1	<0.1	5.9	7.5	74.9	Sd, lmy, shy, silty
56	1800-01	0.1	0.1	8.6	1.4	73.2	Sd, lmy, shy, silty

*DENOTES PLUG PERMEABILITY