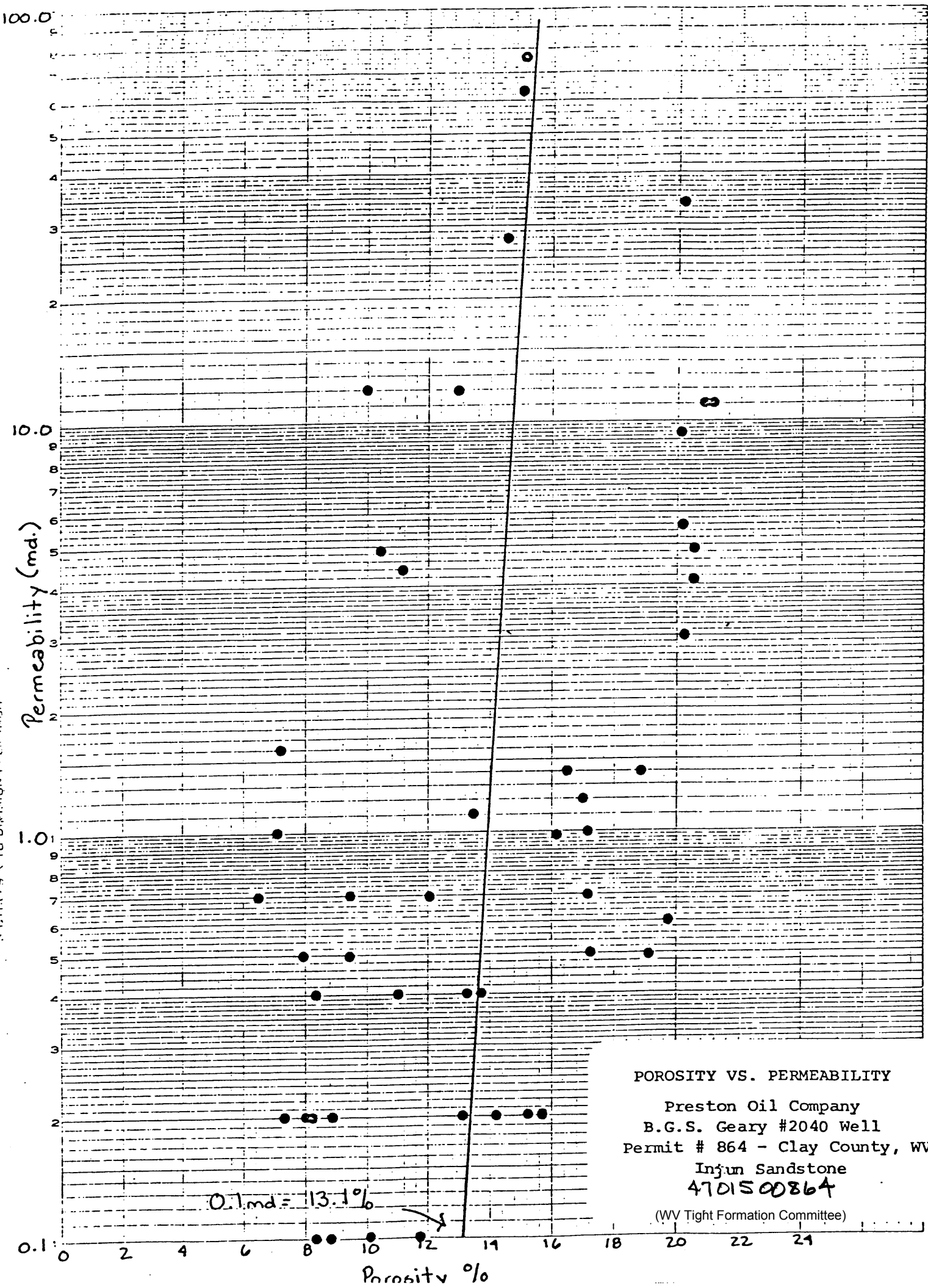


DIETZGEN CORPORATION
MADE IN U.S.A.

NO. 740P-L310 DIETZGEN GRAPH PAPER
SEMI-LOGARITHMIC
3 CYCLES X 10 DIVISIONS PER INCH



0.1 md = 13.1%

POROSITY VS. PERMEABILITY

Preston Oil Company
B.G.S. Geary #2040 Well
Permit # 864 - Clay County, WV
Injun Sandstone
4701500864

(WV Tight Formation Committee)

41-54

Clay-864

CORE ANALYSIS RESULTS

Company PRESTON OIL COMPANY Formation AS NOTED File CP-1-6869
 Well B. G. S. GEARY NO. 2040 Core Type DIAMOND Date Report 1-28-69
 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 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 MILLIDARCS		POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
		PERM. MAX. CC/11	PERM. 90° CC/1		OIL	TOTAL WATER	
WHOLE CORE ANALYSIS							
1	1908.0-09.0	0.3	0.1	10.6	22.3	74.3	BIG LIME Dol
2	09.0-10.0	0.1	<0.1	11.0	22.6	69.9	Dol
3	10.0-11.0	1.0	0.6	7.1	7.0	56.7	BIG INJUN Sd, lmy
4	11.0-12.0	0.2*		8.1	5.5	56.3	Sd, sl/lmy
5	12.0-13.0	4.9	3.7	10.5	6.1	56.5	Sd, sl/lmy
6	13.0-14.0	4.4	3.9	11.2	4.0	59.6	Sd, sl/lmy
7	14.0-15.0	0.7	0.6	9.4	11.0	47.9	Sd, sl/lmy
8	15.0-16.0	1.6	0.1	7.2	10.5	46.2	Sd, sl/lmy
9	16.0-17.0	0.4	0.2	8.4	5.9	53.5	Sd, sl/lmy
10	17.0-18.0	0.4	0.4	11.0	6.4	54.8	Sd, sl/lmy, sl/silty
11	18.0-19.0	0.1	0.1	8.8	8.2	69.4	Sd, sl/lmy
12	19.0-20.0	0.2	0.2	7.4	8.8	52.5	Sd, sl/lmy
13	20.0-21.0	0.7	0.3	6.5	8.3	53.3	Sd, lmy, sl/congl
14	21.0-22.0	0.1	<0.1	8.4	10.1	60.6	Sd, sl/lmy, sl/shy
15	22.0-23.0	0.5	0.4	8.0	11.1	52.1	Sd, sl/lmy, sl/congl
16	23.0-24.0	0.7	0.6	12.1	10.8	58.5	Sd, sl/lmy, congl
17	24.0-25.0	0.2	0.1	8.2	11.0	61.9	Sd, sl/lmy, shy
18	25.0-26.0	0.5	0.1	9.5	10.7	50.7	Sd, sl/silty
19	26.0-27.0	0.1	<0.1	10.1	16.3	46.3	Sd, sl/silty
20	27.0-28.0	0.2	0.2	8.9	17.3	49.6	Sd, silty
21	28.0-29.0	12.0	10.0	10.0	13.5	54.2	Sd, congl
22	29.0-30.0	1.1	0.9	13.6	13.3	63.6	Sd, sl/silty
23	30.0-31.0	12.0	12.0	17.0	13.1	57.1	Sd
24	31.0-32.0	76.0	70.0	15.2	13.0	55.1	Sd, sl/lmy, sl/congl
25	32.0-33.0	128*		9.2	11.6	58.8	Sd, sl/lmy, congl
26	33.0-34.0	28.0	26.0	14.5	11.2	60.2	Sd, sl/lmy
27	34.0-35.0	63.0	58.0	15.1	8.6	58.1	Sd, sl/lmy
28	35.0-36.0	12.0	12.0	13.0	9.4	61.0	Sd, sl/lmy, sl/silty
29	36.0-37.0	0.2*		11.1	12.8	64.3	Sd, sl/lmy, sl/shy, sl/congl
30	37.0-38.0	1.4	1.3	16.6	12.4	63.7	Sd, silty
31	38.0-39.0	3.0	3.0	20.3	11.2	54.0	Sd, silty
32	39.0-40.0	9.4	9.1	20.2	10.9	55.9	Sd, silty
33	40.0-41.0	34.0	31.0	20.3	12.6	53.6	Sd, silty
34	41.0-42.0	0.5	0.5	17.3	12.9	60.3	Sd, silty
35	42.0-43.0	0.7	0.7	17.2	13.3	57.8	Sd, silty
36	43.0-44.0	11.0	10.0	20.9	14.7	50.6	Sd, silty
37	44.0-45.0	5.6	5.5	20.2	12.7	55.2	Sd, silty
38	45.0-46.0	11.0	10.0	20.9	13.6	55.5	Sd, silty
39	46.0-47.0	4.1	4.0	20.5	12.0	58.2	Sd, silty
40	47.0-48.0	4.9	4.4	20.5	12.4	55.8	Sd, silty

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

File CP-1-6869 Page No. 2

Well B. G. S. Geary No. 2040

CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCY'S		POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
		MAX.	90°		OIL	TOTAL WATER	
41	1948.0-49.0	9.6*		20.8	12.5	54.9	Sd, silty
42	49.0-50.0	11.0	11.0	21.0	12.8	61.3	Sd, silty
43	50.0-51.0	0.6	0.6	19.8	17.2	55.9	Sd, silty
44	51.0-52.0	0.5	0.5	19.1	16.6	59.0	Sd, silty
45	52.0-53.0	1.4	1.3	18.9	11.8	58.6	Sd, silty
46	53.0-54.0	1.0	0.9	17.2	12.7	60.7	Sd, silty
47	54.0-55.0	0.9	0.9	16.2	14.0	58.7	Sd, silty
48	55.0-56.0	0.2	0.2	15.3	14.6	65.1	Sd, silty
49	56.0-57.0	0.2	0.2	15.8	10.3	74.3	Sd, silty
50	57.0-58.0	0.2	0.1	14.2	8.9	82.3	Sd, silty
51	58.0-59.0	0.4	0.1	13.8	4.1	82.6	Sd, silty
52	59.0-60.0	0.1	0.1	11.8	4.4	82.5	Sd, silty
	60.0-61.3						Sh
53	61.0-62.0	0.2	0.1	8.1	Tr	82.3	Sd, v/silty, vert frac
54	62.0-63.0	0.4	0.2	13.3	0.0	68.2	Sd, v/silty
55	63.0-63.8	0.2	0.2	13.2	0.0	73.5	Sd, v/silty
	63.8-69.3						Sh, few siltstone stks
56	69.0-70.0	0.3	0.1	6.0	0.0	88.7	Siltstone, shy
57	70.0-71.0	0.1	<0.1	5.8	0.0	84.9	Siltstone
	71.0-76.8						Sh, few siltstone stks
58	76.8 78.0-81.0	0.1	<0.1	8.6	0.0	64.0	Siltstone
	78.0-81.0						Sh, siltstone stks
59	81.0-82.3	<0.1	<0.1	6.5	0.0	63.1	Siltstone
	82.3-87.0						Sh, few siltstone stks
60	87.0-88.0	0.2	0.1	5.5	1.2	20.5	Siltstone
61	88.0-88.7	<0.1	<0.1	5.0	Tr	26.9	Siltstone
	88.7-91.0						Sh, siltstone stks
							SQUAW
62	91.0-92.0	0.5	0.1	13.5	39.1	19.2	Sd, silty
63	92.0-93.0	0.3	0.2	15.4	36.7	16.2	Sd, v/silty
64	93.0-94.0	0.5	0.4	15.0	39.9	17.0	Sd, silty
65	94.0-95.0	0.1	<0.1	12.4	45.8	24.4	Sd, silty
66	95.0-96.0	0.1	<0.1	13.6	43.4	17.9	Sd, silty
67	96.0-97.0	0.2	0.1	10.8	36.3	20.1	Sd, silty
	97.0-97.3						Sh, silty
68	97.0-98.0	0.2	0.1	13.8	49.1	18.5	Sd, silty
69	98.0-99.0	0.1	<0.1	11.7	36.3	20.8	Sd, silty
	1999.0-2008.0						Sh

*DENOTES PLUG PERMEABILITY