



POROSITY VS. PERMEABILITY

Preston Oil Company
B.G.S. Geary #2038 Well
Permit #867 - Clay County, WV
Injun Sandstone
4701500867
(WV Tight Formation Committee)

41-54

Clay-867

CORE ANALYSIS RESULTS

Company PRESTON OIL COMPANY Formation BIG INJUN File CP-1-6932
Well B. G. S. GEARY NO. 2038 Core Type DIAMOND Date Report 4-23-69
Field GRANNYS CREEK Drilling Fluid _____ 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 MILLIDARCY		POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
		PERM. MAX.	PERM. 90°		OIL	TOTAL WATER	
WHOLE CORE ANALYSIS							
		CC1	CC2	CC3			
1	1966-67	<0.1	<0.1	1.3	0.0	18.2	Lm
2	67-68	<0.1	<0.1	1.8	0.0	30.8	Lm
3	68-69	<0.1	<0.1	1.9	0.0	29.4	Lm
4	69-70	<0.1	<0.1	1.5	Tr	18.2	Lm
5	70-71	<0.1	<0.1	1.5	0.0	20.0	Lm, sl/shy
6	71-72	<0.1	<0.1	0.9	0.0	25.0	Lm, sty
7	72-73	0.1	<0.1	4.3	2.4	68.3	Lm, few pp vugs
8	73-74	1.1	0.9	8.1	4.7	54.0	Sd, sl/shy, sl/lmy
9	74-75	1.3	1.2	8.9	3.9	54.1	Sd, sl/lmy, sl/shy
10	75-76	2.8	2.7	8.1	7.0	46.3	Sd, sl/lmy, sl/silty, sl/congl
11	76-77	1.8	1.7	9.1	8.2	37.5	Sd, sl/lmy, sl/silty, sl/congl
12	77-78	0.3	0.2	8.7	14.0	47.5	Sd, sl/silty
13	78-79	0.2	0.2	8.2	10.9	56.9	Sd, sl/lmy, sl/silty
14	79-80	0.5	0.4	10.3	14.5	48.1	Sd, sl/silty
15	80-81	0.1	0.1	7.1	7.6	45.2	Sd, sl/lmy
16	81-82	0.4	0.4	5.9	7.8	51.1	Sd, sl/lmy
17	82-83	0.2	0.2	7.6	7.7	60.9	Sd, sl/lmy
18	83-84	1.3	1.3	8.3	10.1	52.9	Sd, sl/lmy, sl/silty, sl/congl
19	84-85	0.3	0.2	5.4	8.0	50.0	Sd, sl/lmy, sl/congl
20	85-86	0.3	0.3	9.0	12.9	59.4	Sd, sl/lmy, sl/silty, sl/congl
21	86-87	0.5	0.5	10.1	13.6	65.2	Sd, silty
22	87-88	0.2	0.2	7.9	6.8	51.8	Sd, sl/lmy, sl/congl
23	88-89	3.3	3.2	7.7	10.8	51.3	Sd, sl/congl
24	89-90	6.5	6.2	15.7	10.4	60.5	Sd, sl/silty
25	90-91	18.0	18.0	11.4	12.5	53.2	Sd, congl
26	91-92	11.0	11.0	13.1	12.6	51.4	Sd, silty
27	92-93	30.0	30.0	19.1	10.6	58.6	Sd, sl/silty
28	93-94	20.0	20.0	10.1	13.1	48.9	Sd, sl/lmy, congl
29	94-95	26.0	26.0	7.5	7.4	64.6	Sd, sl/lmy, congl
30	95-96	0.1	0.1	4.8	2.8	61.9	Sd, sl/lmy, sl/silty
31	96-97	1.1	0.9	10.7	11.8	55.6	Sd, sl/lmy, congl
32	97-98	11.0	9.7	15.2	13.2	55.1	Sd, sl/lmy, shy, congl
33	98-99	17.0	15.0	18.6	10.5	56.4	Sd
34	99-00	27.0	26.0	20.5	10.0	56.7	Sd, lmy, silty
35	2000-01	5.6	4.7	18.7	14.0	53.7	Sd, silty, congl
36	01-02	8.4	8.4	21.7	17.5	49.7	Sd, silty
37	02-03	7.5	7.3	19.4	17.0	55.0	Sd, silty
38	03-04	3.4	3.1	17.4	13.3	59.8	Sd, silty
39	04-05	7.2	6.7	19.8	19.0	50.4	Sd, silty
40	05-06	4.9	4.8	20.1	12.4	56.7	Sd, silty
41	06-07	18.0	17.0	20.2	12.1	59.6	Sd, silty

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-1-6932 Page No. 2

Well B. G. S. Geary No. 2038

CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCS MAX. 90°	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS	
				OIL	TOTAL WATER		
42	2007-08	7.8	7.5	20.0	11.8	59.2	Sd, silty
43	08-09	7.8	7.8	20.1	11.5	59.7	Sd, silty
44	09-10	9.5	8.9	20.2	12.7	58.5	Sd, silty
45	10-11	10.0	9.8	20.2	12.8	57.8	Sd, silty
46	11-12	6.8	6.5	19.2	10.8	61.4	Sd, silty
47	12-13	5.3	5.0	19.5	10.9	60.5	Sd, silty
48	13-14	5.5	5.3	19.3	11.4	60.6	Sd, silty
49	14-15	6.3	6.1	19.1	11.4	60.0	Sd, silty
50	15-16	4.7	4.5	18.7	15.0	57.0	Sd, silty
51	16-17	0.4	0.3	15.2	14.3	67.6	Sd, silty
52	17-18	0.2	0.2	16.1	13.4	66.7	Sd, silty
53	18-19	0.3	0.2	16.4	13.6	69.2	Sd, silty
54	19-20	0.1	<0.1	15.6	6.3	89.2	Sd, silty
55	20-21	<0.1	<0.1	10.1	6.9	82.4	Sd, lmy, sl/shy
	21-22						Sh
56	22-22.7	<0.1	<0.1	5.7	4.1	86.2	Sd, v/silty
57	2023.0 22.7-23.7	0.1	0.1	13.0	6.2	69.5	Sd, silty
	2024.0 23.7-25.0						Sh
58	2025.0-26.0	<0.1	<0.1	8.9	3.5	76.1	Sd, v/silty

THIS IS THE FINAL REPORT.