CA-20

CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

DALLAS, TEXAS

CORE ANALYSIS RESULTS

Company Tenneco Oil Company | Formation Dakota | File RP-3-2443

Well Santa Fe Pacific RR # 6 | Core Type Dia. Conv. 4" | Date Report 11-5-70

Field Unnamed | Drilling Fluid Water Base Mud | Analysts Mohl

County McKinley State N. Mex. Elev. 6966 GL Location SE NE Sec 13-T17N-R9W

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 Horiz.	PERMEABILITY MILLIDARCYS Vert.	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE OIL	RESIDUAL SATURATION PER CENT PORE TOTAL WATER	SAMPLE DESCRIPTION AND REMARKS	
1	2700-01	0.43	0.07	6.6	0.0	78.7	Ss, gry, fn, slty, v/calc	
2	2701-02	201.	95.	22.5	0.0	54.6	Ss, gry, fn	
3	2702-03	6.6	3.5	21.0	0.0	74.7	Ss, gry, vfn, slty	
4	2703-04	11.	7.2	22.9	0.0	73.4	Ss, gry, vfn, slty	
5	2704-05	6.2	5.2	18.2	1.1	74.1	Ss, gry, vfn-fn, slty	
6	2705-06	28.	19.	22.7	2.6	69.1	Ss, gry, vfn, slty, calc	"D" Productive Zone
7	2706-07	536.	421.	22.2	0.9	53.6	Ss, gry, vfn-fn, slty	
8	2707-08	135.	57.	23.3	0.9	54.1	Ss, gry, vfn-fn. slty	
9	2708-09	602.	461.	24.1	0.0	58.5	Ss, gry, vfn-fn, slty, calc	
10	2709-10	216.	46.	23.3	0.0	57.1	Ss, gry, vfn-med, slty, calc	
11	2710-11	576.	403.	24.0	0.8	46.6	Ss, gry, vfn-med, slty, calc	
12	2711-12	293.	132.	21.9	2.7	51.1	Ss, gry, vfn-med, slty, calc	
13	2712-13	141.	138.	20.6	1.0	44.1	Ss, gry, vfn-med, slty	
14	2713-14	141.	118.	16.3	2.5	32.5	Ss, wh, vfn, slty	
15	2714-15	155.	77.	22.2	0.0	52.2	Ss, gry, vfn, slty	
16	2715-16	190.	161.	21.4	0.0	46.7	Ss, wh, vfn, slty	
17	2720-21	222.	118.	22.7	7.9	43.1	Ss, wh, vfn, slty	
18	2721-22	461.	403.	20.4	6.9	42.6	Ss, wh, fn-med. slty	
19	2722-23	187.	181.	22.3	8.1	48.0	Ss, wh, vfn-fn, slty	
20	2723-24	90.	16.	20.4	9.3	54.9	Ss, wh, vfn-fn, slty	
21	2724-25	233.	213.	22.7	11.0	45.3	Ss, wh, vfn-fn, slty	
22	2725-26	106.	103.	19.9	9.0	47.6	Ss, wh, vfn-fn, slty	
23	2726-27	60.	57.	19.8	7.6	55.0	Ss, wh, vfn-fn, slty	
24	2727-28	14.	10.	18.6	0.0	64.5	Ss, wh, vfn-fn, slty, calc	
				11-7-70				
25	2716-17	0.23	1.1	11.9	0.0	42.1	Ss, gry, vfn, slty	
26	2717-18	0.98	0.37	4.9	0.0	20.4	Ss, gry, vfn, slty	
27	2718-19	0.14	0.10	2.5	0.0	56.0	Ss, gry, vfn, slty	
28	2718-20	8.2 *	0.60	8.7	13.8	78.1	Ss, gry, vfn, shly	

* Denotes Fracture Permeability

Average Horizontal Air Permeability - 243 md

Average Porosity ---------- 21.7%

BEFORE THE OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO Applicant EXHIBIT No. 8 CASE 4457 - Le Mans

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