ORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

CORE ANALYSIS RESULTS

Company PHILLIPS PETROLEUM COMPANY Formation GRAYBURG-SAN ANDRES File WP-3-3302
Well STATE "E" NO. 14 Core Type DIAMOND 4 3/8" Date Report 5-4-70
Field MALJAMAR Drilling Fluid WATER BASE MUD Analysts BOONE
County LEA State NEW MEX. Elev. Location 660 FN & 1980 FEL SEC 15-T17S-R33E

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	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE OIL	RESIDUAL SATURATION PER CENT PORE TOTAL WATER	SAMPLE DESCRIPTION AND REMARKS
	CONVENTIONAL ANALYSIS					
	4243.0-75.0					DOL, ANHY
	75.0-77.0					SH, DOL
	77.0-95.0					DOL, ANHY
	95.0-97.0					ANHY
	97.0-01.0					SS, ANHY, DOL
	4301.0-07.0					DOL, ANHY
	07.0-11.0					DOL, SHY, ANHY
	11.0-27.0					DOL, ANHY
	27.0-29.0					ANHY
	29.0-30.0					DOL, SHY, ANHY
	30.0-35.0					ANHY, DOL
	35.0-41.0					DOL, ANHY
	41.0-43.0					SH, DOL
	43.0-44.0					ANHY, DOL
	44.0-47.0					DOL, ANHY
	47.0-56.0					DOL, SHY
	56.0-81.0					DOL
	81.0-86.0					DOL, SHY
1	86.0-87.0	1.0	5.2	25.0	48.0	SS, DOL
2	87.0-88.0	0.9	7.5	24.0	37.4	SS, DOL
3	88.0-89.0	3.0	8.4	16.7	42.0	SS, DOL
4	89.0-90.0	5.6	12.8	22.6	30.5	SS
5	90.0-91.0	0.8	8.5	14.1	28.2	SS, DOL
6	91.0-92.0	1.7	12.9	15.5	37.2	SS
7	92.0-93.0	0.4	7.9	17.7	40.5	SS, DOL
8	93.0-94.0	1.3	12.9	24.0	32.3	SS
	94.0-07.5					DOL, ANHY
	4407.5-08.0					SH
	08.0-20.0					DOL, SHY
	20.0-29.0					DOL
	29.0-32.0					DOL, SDY
	32.0-39.0					DOL
	39.0-40.0					SS, DOL

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Well STATE "E" NO. 14

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SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE OIL	RESIDUAL SATURATION PER CENT PORE TOTAL WATER	SAMPLE DESCRIPTION AND REMARKS
9	4440.0-41.0	1.9	17.0	9.4	41.8	SS
10	41.0-42.0	0.5	14.8	21.0	51.4	SS
11	42.0-43.0	<0.1	8.9	0.0	83.2	SS, DOL
	43.0-51.0	DOL				
	4451.0-53.0	DOL				
	53.0-56.0	DOL, SHY				
	56.0-64.0	DOL				
12	4464.0-65.0	0.1	6.2	14.5	21.0	DOL, SDY
	65.0-66.0	DOL				
	66.0-71.0	DOL, SHY				
	71.0-75.0	DOL				
	75.0-81.0	DOL, SHY				
13	4481.0-82.0	0.2	10	14.0	28.0	SS
14	82.0-83.0	1.2	12.6	15.9	33.3	SS
15	83.0-84.0	2.2	14.0	17.1	30.0	SS
16	84.0-85.0	3.4	14.0	19.3	27.2	SS
17	85.0-86.0	0.6	11.3	16.1	29.5	SS
	86.0-94.0	DOL, SHY				
	94.0-99.0	DOL				
	4499.0-03.0	LOST CORE				
	4499.0-03.0	DOL (RECOVERED FROM CORE ABOVE)				
	4503.0-21.0	DOL, ANHY				
	21.0-22.0	ANHY				
	22.0-31.0	DOL, ANHY				
	31.0-33.0	ANHY & DOL				
	4533.0-50.0	DOL, ANHY				
18	50.0-51.0	<0.1	3.8	13.2	29.0	DOL
	51.0-53.0	DOL				
	53.0-55.0	ANHY				
	55.0-62.0	DOL				
19	62.0-63.0	<0.1	4.7	10.6	23.5	DOL
20	63.0-64.0	0.4	6.8	13.2	22.1	DOL
21	64.0-65.0	0.2	6.6	10.6	28.8	DOL
22	65.0-66.0	<0.1	4.6	13.0	28.3	DOL
23	66.0-67.0	0.2	6.4	12.5	20.3	DOL
	67.0-90.0	DOL				
	90.0-00.0	SH				