

CORE ANALYSIS RESULTS

Company PHILLIPS PETROLEUM COMPANY Location CRANEURG File WP-3-3260
 Well PHILMEX NO. 10 Log Type DIAMOND 4' Date Report 12-21-69
 Field MALJAMAR Drilling Fluid WATER BASE MUD Analysts BOONE
 County LEA State N. MEXICO Elev. 5477 T-17-S, R-33-E

Lithological Description

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-FIN MEDIUM-MED COARSE-CSE	GRAIN-GRN FINE-FLN 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		SAMPLE DESCRIPTION AND REMARKS		
				OIL	TOTAL WATER			

CONVENTIONAL ANALYSIS

	4130.0-41.0					Anhydrite, shy
	4141.0-74.0					Dolomite, anhy
	4174.0-76.0					Anhydrite
	4176.0-78.5					Dolomite, anhy
	4178.5-80.0					Anhydrite
	4180.0-85.0					Anhydrite
	4185.0-92.0					Dolomite, anhy
	4192.0-93.0					Anhydrite
	4193.0-97.0					Dolomite
	4197.0-97.5					Anhydrite
	4197.5-01.0					Sand, dol
	4201.0-07.0					Anhydrite
	4207.0-10.0					Dolomite
	4210.0-11.0					Anhydrite
	4211.0-30.0					Dolomite, anhy
	4230.0-64.0					Dolomite, anhy
	4264.0-65.0					Sand
1	4265.0-66.0	0.2	9.1	15.4	52.8	Sand
2	66.0-67.0	1.0	15.3	19.8	36.7	Sand
3	67.0-68.0	0.4	10.8	14.8	38.0	Sand
4	68.0-69.0	0.2	9.4	19.2	25.6	Sand
5	69.0-70.0	<0.1	5.2	13.5	34.6	Sand
6	70.0-71.0	<0.1	5.7	22.8	40.3	Sand
7	71.0-72.0	0.1	7.3	19.2	30.2	Sand
8	72.0-73.0	<0.1	6.8	20.6	42.7	Sand
	4273.0-80.0					Dolomite
	4280.0-03.0					Dolomite, anhy
9	4303.0-04.0	<0.1	3.5	20.0	48.6	Sand, dol
	4304.0-05.0					Sand, dol
	4305.0-08.0					Dolomite, sdv
10	4308.0-09.0	<0.1	4.7	24.4	41.5	Sand, dol
11	09.0-10.0	<0.1	4.7	24.4	41.5	Sand, dol
12	4310.0-11.0	<0.1	6.1	23.0	26.2	Sand, dol

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

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SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYs	POROSITY PER CENT	RESIDUAL SATURATION		SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL	
13	4311.0-12.0	0.2	8.9	18.0	29.2	Sand, dol
14	12.0-13.0	0.1	7.7	20.6	28.2	Sand, dol
15	13.0-14.0	0.1	8.7	24.2	27.6	Sand, dol
16	14.0-15.0	<0.1	5.8	22.4	43.1	Sand, dol
	4315.0-18.0					Dolomite, sdy
	4318.0-25.0					Dolomite
	4325.0-30.0					Dolomite, sdy
	4330.0-40.0					Dolomite, anhy
	4340.0-42.0					Dolomite, anhy, shy
	4342.0-73.5					Dolomite, anhy
	4373.5-75.0					Sand, shy, dol
	4375.0-80.0					Dolomite, anhy
	4380.0-83.0					Dolomite
17	4383.0-84.0	<0.1	2.7	18.5	33.3	Sand, dol
	4384.0-8. .0					Dolomite, sdy
18	4386.0-87.0	<0.1	4.3	23.2	48.8	Sand, dol
	4387.0-89.0					Sand, dol
19	4389.0-90.0	<0.1	4.4	27.3	40.8	Sand, dol
20	90.0-91.0	<0.1	4.4	20.4	28.3	Sand, dol
21	4391.0-92.0	<0.1	4.7	25.6	38.3	Sand, dol
	4392.0-98.0					Dolomite
	4398.0-99.0					Sand, dol
22	4399.0-00.0	<0.1	4.5	28.8	17.8	Sand, dol
23	4400.0-01.0	6.3	9.7	16.6	8.3	Sand, dol
24	01.0-02.0	1.9	8.4	14.3	19.0	Sand, dol
25	4402.0-03.0	<0.1	2.3	34.8	30.4	Dolomite
	4403.0-04.0					Dolomite
26	4404.0-05.0	<0.1	2.2	9.2	18.2	Dolomite
27	05.0-06.0	<0.1	2.3	21.7	30.4	Dolomite
28	06.0-07.0	<0.1	3.1	25.8	35.4	Dolomite
29	07.0-08.0	<0.1	2.7	22.2	25.8	Dolomite
30	08.0-09.0	<0.1	1.7	11.8	23.6	Dolomite
31	09.0-10.0	<0.1	4.8	20.9	54.2	Dolomite, sdy
32	4410.0-11.0	0.1	5.6	12.5	26.8	Dolomite, sdy
	4411.0-13.0					Dolomite, sdy
	4413.0-28.0					Dolomite
33	4428.0-29.0	<0.1	4.1	17.1	36.6	Dolomite, sdy
34	4429.0-30.0	<0.1	3.9	12.8	38.5	Dolomite, sdy
	4430.0-31.0					Dolomite, sdy

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				OIL	WATER	
35	4431.0-32.0	0.1	5.7	15.1	35.1	Sand, dol
	4432.0-33.0					Dolomite, sdy
	4433.0-35.0					Dolomite, anhy
36	4435.0-36.0	<0.1	2.7	29.6	33.3	Dolomite
37	4436.0-37.0	<0.1	2.6	30.7	34.6	Dolomite
	4437.0-43.0					Dolomite, anhy
38	4443.0-44.0	<0.1	3.5	20.0	25.7	Dolomite
39	4444.0-45.0	<0.1	3.6	22.2	30.5	Dolomite
	4445.0-52.0					Dolomite, anhy
	4452.0-62.0					Dolomite, shy, sdy
	4462.0-80.0					Dolomite, anhy
	4480.0-94.0					Dolomite, anhy
	4494.0-98.0					Shale,
	4498.0-02.0					Dolomite, shy
	4502.0-10.0					Shale
	4510.0-14.0					Dolomite, shy
	4514.0-17.0					Dolomite, anhy
	4517.0-22.0					Dolomite, cong, shy
	4522.0-25.0					Dolomite, anhy
	4525.0-30.0					Lost Core
	4527.0-45.0					Dolomite, anhy (Recovered 3' Lost Core)
40	4545.0-46.0	<0.1	4.8	10.4	62.6	Dolomite, anhy
41	4546.0-47.0	0.6	8.0	6.3	47.6	Dolomite, anhy
	4547.0-71.5					Dolomite, anhy
42	4571.5-72.5	<0.1	2.3	8.7	48.0	Dolomite, anhy
	4572.5-74.0					Dolomite, anhy
43	4574.0-75.5	1.3	8.7	10.3	21.8	Dolomite, anhy
	4575.5-80.0					Dolomite, anhy

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