

PHILLIPS PETROLEUM COMPANY

EVGSA TRACT 3308 WELL NO. 3

E. VACUUM FIELD

LEA COUNTY, NEW MEXICO

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O.C.D. HOBBS, OFFICE

CORE LABORATORIES, INC.**LAB**

August 17, 1979

PHILLIPS PETROLEUM COMPANY
4001 Penbrook
Odessa, Texas 79760

File : 3202-11225
Subject: Core Analysis
- EVGAS Tract 3308 No. 3
E. Vacuum Field
Lea County, New Mexico

Gentlemen:

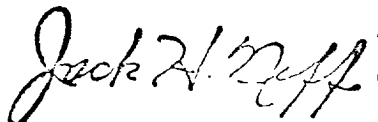
The subject well was cored using diamond coring equipment and brine to obtain 4 inch diameter cores from 4410 to 4659 feet from the San Andres formation.

Core analysis data is presented in tabular and graphical form for your convenience. An R_o graph, water cut scaler, water saturation scaler, permeability and porosity histograms and a permeability vs porosity plot were prepared in addition to the standard core graph. A procedural page is also included with other pertinent data.

We trust these data will be useful in the evaluation of your property and thank you for the opportunity of serving you.

Very truly yours,

CORE LABORATORIES, INC.



Jack H. Neff
Laboratory Manager

JHN/jdt/gm

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PHILLIPS PETROLEUM COMPANY
EVGAS Tract 3308 Well No. 3
File: 3202-11225
Procedural Page

The cores were preserved at the wellsite in a CO₂ atmosphere and transported to Midland by Core Laboratories, Inc. personnel.

A Core Gamma Log was recorded for downhole E-log correlation.

Preserved fresh core samples were taken from 65 intervals for future special analysis.

Core analysis was made from intervals requested on whole core diameter samples.

Fluid removal and fluid saturations were determined using controlled temperature vacuum retort techniques.

Porosity was determined using whole core summation of fluids.

Air permeability was measured in two horizontal directions in a hassler sleeve.

The core was boxed after the analysis and remains at our Midland lab as we await further disposition instructions.

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

CORE ANALYSIS REPORT

FOR

PHILLIPS PETROLEUM COMPANY

EVOSA TRACT 3308 WELL NO. 3
E. VACUUM FIELD
LEA COUNTY, NEW MEXICO

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
 DALLAS, TEXAS

PHILLIPS PETROLEUM COMPANY
 EVGSA TRACT 3308 WELL NO. 3
 E. VACUUM FIELD
 LEE COUNTY, NEW MEXICO

DATE : 7-26-79
 FORMATION : SAN ANDRES
 DRLG. FLUID:
 LOCATION : 1150' FNL & 1510' FWL, SEC. 33, T-17-S, R-35-E

FILE NO : 3202-11225
 ANALYSTS : NEFF
 ELEVATION: 3940.4' GL

FULL DIAMETER ANALYSIS

SAMPLE NUMBER	DEPTH	PERM. TO AIR (MD) MAXIMUM	POR. He	FLUID SATS.		GRAIN DEN	DESCRIPTION
				OIL	WTR		
CORE NO. 1 4410.0-4470.0 CUT 60' RED 60'							
S 1	4410.0-11.0	5.3	2.1	8.2	28.1	23.4	2.88 DOL, OOL, PP
2	4410.0-12.0	1.9	7.7	8.7	17.1	32.0	2.89 DOL, ANHY, SL/F, PP, OOL
S 3	4412.0-13.0	9.1	7.2	7.7	14.6	36.6	2.85 DOL, ANHY, SL/F, PP, OOL, STY
4	4413.0-14.0	21.	8.9	11.7	23.1	34.8	2.88 DOL, ANHY, SL/F, PP, OOL
S 5	4414.0-15.0	22.	16.	11.2	22.1	31.8	2.88 DOL, ANHY, SL/V, OOL
6	4415.0-16.0	31.	28.	14.0	24.1	34.2	2.87 DOL, ANHY, SL/V, OOL
7	4416.0-17.0	23.	5.9	3.6	25.7	48.6	2.85 DOL, ANHY, SL/F, SL/V, STY
S 8	4417.0-18.0	7.1	6.4	10.4	16.7	32.4	2.84 DOL, ANHY, SL/F, SL/V, STY
9	4418.0-19.0	3.5	3.3	10.1	9.2	39.4	2.84 DOL, ANHY, SL/V, SL/F, STY
S 10	4419.0-20.0	28.	12.	10.4	22.7	35.1	2.84 DOL, ANHY, SL/F, SL/V, STY
11	4420.0-21.0	4.1	3.3	7.9	7.3	43.8	2.86 DOL, ANHY, SL/V, SL/F, STY
S 12	4421.0-22.0	1.9	0.3	7.1	31.7	28.6	2.88 DOL, ANHY, OOL, SL/F, PP, STY
13	4422.0-23.0	38.	0.2	7.4	24.7	37.7	2.87 DOL, ANHY, SL/F, PP, OOL, STY
S 14	4423.0-24.0	2.0	1.8	9.5	27.3	33.3	2.86 DOL, ANHY, OOL, SL/F, PP, STY
15	4424.0-25.0	0.8	0.7	7.1	25.4	24.2	2.88 DOL, ANHY, PP, OOL, STY
S 16	4425.0-26.0	15.	9.7	15.4	23.8	30.8	2.87 DOL, ANHY, SL/F, PP, OOL
17	4426.0-27.0	9.3	8.9	13.7	20.0	36.2	2.87 DOL, ANHY, OOL, SL/F, PP, STY
S 18	4427.0-28.0	9.7	7.6	12.9	17.1	35.5	2.84 DOL, ANHY, OOL, SL/F, SL/V, STY
19	4428.0-29.0	17.	15.	21.1	15.7	29.3	2.86 DOL, ANHY, OOL, PP
20	4429.0-30.0	16.	15.	18.0	17.1	31.6	2.84 DOL, ANHY, SL/V, SL/F, OOL, STY
21	4430.0-31.0	5.9	4.6	13.6	21.7	39.2	2.87 DOL, ANHY, SL/F, PP, STY
S 22	4431.0-32.0	12.	6.2	14.2	17.3	33.7	2.88 DOL, ANHY, SL/F, SL/V, OOL, STY
23	4432.0-33.0	29.	25.	15.2	25.3	30.8	2.85 DOL, ANHY, SL/F, SL/V, OOL, STY
S 24	4433.0-34.0	36.	33.	16.4	18.7	34.6	2.88 DOL, ANHY, SHR, SL/V, SL/F, OOL, STY
S 25	4434.0-35.0	140.	137.	19.7	18.0	31.0	2.85 DOL, ANHY, OOL, PP

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

PHILLIPS PETROLEUM COMPANY
EVGSA TRACT 3308 WELL NO. 3

DATE : 7-26-79
FORMATION : SAN ANDRES

FILE NO : 3202-11225
ANALYSTS : NEFF

FULL DIAMETER ANALYSIS

SAMPLE NUMBER	DEPTH	PERM. MAXIMUM	TO AIR (MD) 90 DEG	POR. He	FLUID SATS. OIL	SATS. WTR	GRAIN DEN	DESCRIPTION
26	4435.0-36.0	39.	27.	16.9	16.0	29.6	2.87	DOL, ANHY, SL/V, SL/F, OOL, STY
27	4436.0-37.0	29.	19.	16.6	19.9	27.6	2.87	DOL, ANHY, OOL, SL/V, SL/F, STY
28	4437.0-38.0	27.	27.	18.1	10.0	43.6	2.87	DOL, ANHY, OOL, PP, STY
29	4438.0-39.0	3.2	2.2	9.6	22.0	37.3	2.83	DOL, ANHY, SHR, OOL, SL/V, SL/F, STY
30	4439.0-40.0	36.	29.	13.5	18.6	26.4	2.86	DOL, ANHY, F, SL/V, STY
31	4440.0-41.0	<0.1	*	4.8	19.4	46.6	2.86	DOL, SL/ANHY, STY, F, SL/V
32	4441.0-42.0	3.1	1.2	7.3	23.6	39.3	2.86	DOL, ANHY, STY, F, SL/V
33	4442.0-43.0	1.7	1.2	8.8	25.0	29.2	2.86	DOL, SL/ANHY, STY, F, SL/V
34	4443.0-44.0	1.1	0.6	7.3	25.0	38.9	2.83	DOL, SL/ANHY, STY, F, SL/V
35	4444.0-45.0	0.4	*	8.3	24.1	40.2	2.84	DOL, SL/ANHY, STY, V, F, SL/V
36	4445.0-46.0	<0.1	*	10.1	18.2	42.4	2.84	DOL, SL/ANHY, STY, V, F, SL/V
37	4446.0-47.0	19.	4.4	10.5	23.5	26.9	2.85	DOL, SL/ANHY, STY, V, F, SL/V
38	4447.0-48.0	<0.1	*	8.8	18.6	41.2	2.84	DOL, SL/ANHY, STY, V, F, V
39	4448.0-49.0	2.9	2.3	5.5	20.2	32.2	2.88	DOL, SL/ANHY, STY, F, V, SHR
40	4449.0-50.0	0.9	0.8	3.0	22.4	55.9	2.84	DOL, SL/ANHY, STY, F, V
41	4450.0-51.0	1.5	1.1	5.0	26.8	42.2	2.84	DOL, ANHY, STY, F, V, SHR
42	4451.0-52.0	18.	3.0	4.3	27.5	42.0	2.86	DOL, ANHY, STY, F, V, SHR
43	4452.0-53.0	0.3	0.2	2.2	24.1	31.3	2.88	DOL, ANHY, STY, F, SL/V
44	4453.0-54.0	<0.1	<0.1	1.2	28.6	55.6	2.86	DOL, ANHY, STY, F, SL/V
45	4454.0-55.0	0.4	0.2	3.0	15.9	39.8	2.89	DOL, ANHY, STY, SL//F, SL/V
46	4455.0-56.0	3.2	0.5	1.7	12.2	54.1	2.87	DOL, ANHY, STY, F, SL/V
47	4456.0-57.0	45.	25.	9.3	16.2	36.0	2.84	DOL, ANHY, STY, F, SL/V, OOL
48	4457.0-58.0	0.5	0.3	11.3	24.5	39.3	2.86	DOL, SL/ANHY, STY, F, V
49	4458.0-59.0	5.3	3.3	9.1	7.4	44.2	2.85	DOL, ANHY, STY, F, V
50	4459.0-60.0	4.0	2.0	12.1	21.9	30.4	2.86	DOL, ANHY, STY, F, V, OOL
51	4460.0-61.0	8.7	3.8	9.7	15.7	38.3	2.88	DOL, ANHY, STY, F, V, OOL
52	4461.0-62.0	2.4	0.6	4.9	19.1	41.1	2.89	DOL, ANHY, STY, F, V
53	4462.0-63.0	4.3	2.5	8.0	17.1	37.1	2.87	DOL, ANHY, STY, F, V
54	4463.0-64.0	8.0	3.7	10.5	18.9	30.0	2.86	DOL, SL/ANHY, STY, F, V
55	4464.0-65.0	5.8	5.5	10.7	20.7	30.3	2.87	DOL, ANHY, STY, F, V

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O.C.D. HOBBS, OFFICE

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
 DALLAS, TEXAS

PHILLIPS PETROLEUM COMPANY
 EVGSA TRACT 3308 WELL NO. 3

DATE : 7-26-79
 FORMATION : SAN ANDRES

FILE NO : 3202-11225
 ANALYSTS : NEFF

FULL DIAMETER ANALYSIS

SAMPLE NUMBER	DEPTH	PERM. TO AIR (MD) MAXIMUM	POR. He	FLUID SATS.		GRAIN DEN	DESCRIPTION
				OIL	WTR		
56	4465.0-66.0	3.4	3.1	9.1	50.5	2.87	DOL, ANHY, STY, F, V
57	4466.0-67.0	3.1	3.5	12.8	49.8	2.86	DOL, ANHY, STY, F, V
58	4467.0-68.0	2.9	3.7	13.8	49.8	2.85	DOL, ANHY, STY, F, V
59	4468.0-69.0	0.6	4.5	12.7	40.1	2.87	DOL, ANHY, STY, F, V
60	4469.0-70.0	<0.1	4.8	20.8	40.5	2.85	DOL, ANHY, STY, F, V
CORE NO. 2 4470.0-4509.0 CUT 39' REC 30'							
61	4470.0-71.0	0.9	3.2	20.5	45.5	2.88	DOL, ANHY, STY, F, V
62	4471.0-72.0	0.5	6.2	37.1	27.5	2.86	DOL, ANHY, STY, F, V
63	4472.0-73.0	1.6	3.9	17.5	51.0	2.85	DOL, SL/ANHY, STY, F, V
64	4473.0-74.0	1.9	5.5	13.8	42.1	2.87	DOL, SL/ANHY, STY, SL/F, V
65	4474.0-80.0	<0.1					DOL, ANHY, F, DNS
66	4480.0-81.0	<0.1	1.4	17.5	72.8	2.85	DOL, SL/ANHY, STY, V/F
67	4481.0-82.0	<0.1	2.4	21.3	66.9	2.86	DOL, SL/ANHY, STY, F, SL/V
68	4482.0-83.0	<0.1	6.7	8.5	80.0	2.86	DOL, SL/ANHY, STY, V/F, SH LAM
69	4483.0-84.0	<0.1	2.8	10.3	74.4	2.82	DOL, ANHY, STY, SL/F, V
70	4484.0-85.0	0.2	7.3	12.6	76.4	2.84	DOL, SL/ANHY, STY, SL/F, SL/V, OOL
71	4485.0-86.0	0.7	6.7	9.4	57.7	2.83	DOL, ANHY, STY, SL/F, V
72	4486.0-87.0	0.3	11.1	16.4	53.9	2.86	DOL, SL/ANHY, STY, V/F, V
73	4487.0-88.0	0.2	5.1	22.1	68.3	2.86	DOL, SL/ANHY, STY, V/F, PP
74	4488.0-89.0	0.5	6.3	13.8	77.5	2.82	DOL, SL/ANHY, STY, V/F, V
75	4489.0-90.0	0.2	7.0	22.9	58.1	2.81	DOL, SL/ANHY, STY, SL/F, V
76	4490.0-91.0	0.4	23.6	16.7	32.7	2.87	DOL, SL/ANHY, STY, V
77	4491.0-92.0	189.	15.4	23.1	44.4	2.84	DOL, SL/ANHY, STY, V/F, V
78	4492.0-93.0	0.3	20.6	23.4	33.1	2.85	DOL, SL/ANHY, V/F, V, OOL
79	4493.0-94.0	1.3	23.4	10.0	39.7	2.83	DOL, F, PP, OOL
80	4494.0-95.0	1.3	16.2	20.7	19.1	2.81	DOL, F, V
81	4495.0-96.0	0.1	20.1	28.0	24.0	2.88	DOL, F, V, FOSS, OOL
	4496.0-97.0	<0.1	7.5	13.7	83.8	2.85	DOL, STY, F, PP

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

PHILLIPS PETROLEUM COMPANY
EVGSA TRACT 3308 WELL NO. 3

DATE : 7-26-79
FORMATION : SAN ANDRES

FILE NO : 3202-11225
ANALYSTS : NEFF

FULL DIAMETER ANALYSIS

SAMPLE NUMBER	DEPTH	PERM. TO AIR (MD) MAXIMUM	CUT 60' REC 60'	FLUID SATS.		GRAIN		DESCRIPTION
				He	OIL	WTR	DEN	
S	4497.0-98.0	0.8	*	27.6	26.9	55.7	2.87	DOL,V/F,PP
	4498.0-99.0	106.	*	25.1	28.9	23.5	2.87	DOL,SL/ANHY,V/F,PP
	4499.0-00.0	1.4	0.9	13.2	28.6	25.1	2.84	DOL,STY,SL/F,SL/V
	4500.0-01.0	0.1	*	13.6	24.2	34.3	2.86	DOL,SL/ANHY,STY,V/F,V
	4501.0-09.0							LOST CORE
CORE NO. 3 4509.0-4569.0 CUT 60' REC 60'								
S	4509.0-12.0	<0.1	*	6.1	3.1	85.3	2.78	DOL,ANHY,V,F,DNS
	4512.0-13.0							DOL,SHY,V/F
	4513.0-16.0							DOL,ANHY,SH LAM,DNS
	4516.0-17.0	0.1	<0.1	11.3	7.7	77.2	2.68	SD,DOLC
	4517.0-18.0	0.2	<0.1	13.0	11.8	49.2	2.67	SD
S	4518.0-19.0	0.2	0.2	9.8	8.9	76.2	2.70	SD,DOLC
	4519.0-27.0							DOL,ANHY,SH LAM,DNS
	4527.0-28.0	0.2	0.1	7.6	5.8	83.5	2.82	DOL,SL/ANHY,V,F,SL/V,STY
	4528.0-29.0	1.2	0.4	7.1	13.6	77.8	2.86	DOL,SL/ANHY
	4529.0-30.5							DOL,ANHY,DNS
S	4530.5-31.0	0.2	0.1	2.4	6.7	85.8	2.86	DOL,SL/ANHY,V/F,STY
	4531.0-32.0	<0.1	*	1.3	6.3	80.0	2.85	DOL,SL/ANHY,STY,V/F
	4532.0-33.0	0.4	0.2	2.3	10.1	61.8	2.87	DOL,SL/ANHY,STY,V/F
	4533.0-34.0	0.1	<0.1	4.7	8.1	50.0	2.89	DOL,ANHY,V/F,STY,PP
	4534.0-35.0	1.7	0.8	1.6	10.7	47.6	2.87	DOL,SL/ANHY,V/F,STY,SHR
S	4535.0-36.0	1.4	1.2	6.6	18.4	53.6	2.78	DOL,SL/ANHY,FOSS,V,SHR
	4536.0-37.0	507.	390.	8.3	18.8	39.4	2.86	DOL,SL/ANHY,V,FOSS
	4537.0-38.0	8.4	7.3	9.4	16.3	41.5	2.86	DOL,SL/ANHY,V,FOSS
	4538.0-39.0	1.2	0.5	1.6	37.5	48.6	2.93	DOL,SL/ANHY,FYR,V/F,STY
	4539.0-40.0	1.4	0.6	1.1	35.1	45.5	2.87	DOL,SL/ANHY,V/F,STY
S	4540.0-41.0	<0.1	*	1.5	0.0	69.2	2.86	DOL,SL/ANHY,V,SH LAM
	4541.0-42.0	0.4	0.3	3.9	7.6	37.8	2.87	DOL,SL/ANHY,V,SL/F

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Petroleum Reservoir Engineering
DALLAS, TEXAS

PHILLIPS PETROLEUM COMPANY
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DATE : 7-26-79
FORMATION : SAN ANDRES

FILE NO : 3202-11225
ANALYSTS : NEFF

FULL DIAMETER ANALYSIS

SAMPLE NUMBER	DEPTH	PERM. MAXIMUM	TO AIR (MD) 90 DEG	POR. He	FLUID SATS.		GRAIN DEN		DESCRIPTION
					OIL	WTR	OIL	WTR	
S 104	4542.0-43.0	7.3	6.7	7.0	12.4	34.6	2.88		DOL,SL/ANHY,BREC,V,SL/F
105	4543.0-44.0	16.	15.	10.0	12.5	36.5	2.87		DOL,SL/ANHY,F,PP,STY
S 106	4544.0-45.0	62.	59.	16.8	24.1	26.8	2.85		DOL,SL/ANHY,SL/SDY,SHR,PP,SL/F
107	4545.0-46.0	2.8	1.8	2.2	14.1	58.6	2.85		DOL,SL/ANHY,F,STY
	4546.0-48.0								DOL,ANHY,SH LAM,STY,INS
108	4548.0-49.0	0.3	0.2	2.1	19.7	36.5	2.88		DOL,SL/ANHY,STY,V/F,PP
109	4549.0-50.0	22.	21.	10.1	13.7	29.4	2.87		DOL,SL/ANHY,SDY,SL/V,STY,SHR
110	4550.0-51.0	8.1	6.0	9.5	11.2	37.3	2.82		DOL,SDY,STY,SHR,SL/F,PP
111	4551.0-52.0	0.2	0.1	4.2	32.0	63.1	2.86		DOL,SL/ANHY,SHR,STY
S 112	4552.0-53.0	<0.1	*	6.5	7.6	39.6	2.84		DOL,SL/ANHY,SH LAM
S 113	4553.0-54.0	202.	157.	23.5	18.5	26.8	2.88		SDY,DOLC,SHR,PP
S 114	4554.0-55.0	45.	43.	17.6	16.3	23.2	2.81		DOL,SL/ANHY,SL/SDY,SHR,PP,SL/V
115	4555.0-56.0	27.	25.	10.8	28.4	23.1	2.82		DOL,SL/ANHY,V/F,PP,STY,SHR
116	4556.0-57.0	13.	3.8	10.8	15.6	27.3	2.81		DOL,SL/ANHY,PP,STY,V/F
117	4557.0-58.0	0.1	*	10.6	11.3	21.9	2.84		DOL,SL/ANHY,STY,PP,SHR,V/F
118	4558.0-59.0	150.	5.1	12.3	24.7	18.0	2.84		DOL,SL/ANHY,V/F,PP,SHR,STY
S 119	4559.0-60.0	1.0	*	13.9	14.6	20.4	2.83		DOL,SL/ANHY,V/F,PP,SHR,STY
120	4560.0-61.0	261.	249.	9.2	20.9	33.7	2.83		DOL,SL/ANHY,F,V,SHR
121	4561.0-62.0	<0.1	*	9.6	18.2	27.3	2.83		DOL,SL/ANHY,V/F,STY,PP,SHR
122	4562.0-63.0	6.8	5.1	11.7	22.4	18.7	2.88		DOL,SL/ANHY,V/F,PP,SHR
123	4563.0-64.0	0.1	*	11.8	23.1	24.6	2.84		DOL,SL/ANHY,V/F,PP,STY,SHR
124	4564.0-65.0	8.5	6.2	13.4	22.6	16.7	2.88		DOL,SL/ANHY,PP,STY,SL/F,SHR
125	4565.0-66.0	<0.1	*	10.4	25.5	25.5	2.82		DOL,SL/ANHY,STY,V/F,PP,SHR
126	4566.0-67.0	<0.1	*	9.0	18.4	35.0	2.86		DOL,SL/ANHY,STY,V/F,SHR,PP
127	4567.0-68.0	14.	13.	2.2	7.9	61.4	2.84		DOL,SL/ANHY,V/F,STY,SL/V
128	4568.0-69.0	0.1	*	9.5	17.1	26.4	2.82		DOL,SL/ANHY,SHR,STY,V/F,PP
CORE NO. 4 4569.0-4529.0 CUT 60' REC 60									
129	4569.0-70.0	1.8	1.6	9.0	21.7	16.9	2.84		DOL,SL/ANHY,V/F,STY

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering

DALLAS, TEXAS

PHILLIPS PETROLEUM COMPANY
EVGSA TRACT 3308 WELL NO. 3

DATE : 7-26-79
FORMATION : SAN ANDRES

FILE NO : 3202-11225
ANALYSTS : NEFF

FULL DIAMETER ANALYSIS

SAMPLE NUMBER	DEPTH	PERM. MAXIMUM	TO AIR (MD) 90 DEG	FOR. He	FLUID OIL	SATS. WTR	GRAIN DEN	DESCRIPTION
130	4570.0-70.5	27.	15.	7.9	8.0	44.3	2.83	DOL,SL/ANHY,STY,F,00L,SL/V,SHR
	4570.5-75.0							DOL,ANHY,DNS
131	4575.0-76.0	<0.1	*	5.6	16.4	50.9	2.83	DOL,SL/ ANHY,STY,V/F,PF
S 132	4576.0-77.0	57.	19.	8.5	9.7	36.4	2.86	DOL,SL/ANHY,V/F,STY,SL/V
133	4577.0-78.0	8.5	7.6	11.1	26.8	29.1	2.85	DOL,SL/ANHY,STY,F,V
134	4578.0-79.0	0.1	*	7.1	16.3	44.4	2.83	DOL,SL/ANHY,STY,V/F,SL/V
	4579.0-80.8							DOL,ANHY,F,DNS
S 135	4580.8-82.0	6.7	4.5	6.2	17.9	39.8	2.83	DOL,SL/ANHY,STY,F,V
136	4582.0-83.0	3.4	2.8	6.5	28.8	20.5	2.84	DOL,SL/ANHY,STY,F,V,FOSS
137	4583.0-84.0	<0.1	*	3.8	14.3	61.8	2.83	DOL,SL/ANHY,STY,F,V
S 138	4584.0-85.0	0.3	0.2	2.6	17.5	38.8	2.88	DOL,SL/ANHY,STY,F
	4585.0-88.0							DOL,ANHY,F,DNS
139	4588.0-89.0	14.	13.	11.4	19.2	29.7	2.85	DOL,SL/ANHY,STY,F,SL/V
140	4589.0-90.0	0.7	*	14.9	22.4	27.3	2.85	DOL,SL/ANHY,F
141	4590.0-91.0	11.	8.7	13.1	18.6	28.1	2.88	DOL,SL/ANHY,STY,F,SL/V
S 142	4591.0-92.0	9.0	5.2	7.9	19.7	37.4	2.84	DOL,SL/ANHY,STY,F,V,00L
143	4592.0-93.0	37.	24.	14.9	27.1	29.6	2.88	DOL,SL/ANHY,STY,V/F,PF
S 144	4593.0-94.0	12.	11.	13.8	22.1	31.0	2.83	DOL,SL/ANHY,STY,SL/F,00L
145	4594.0-95.0	4.1	3.7	14.0	24.1	24.6	2.86	DOL,SL/ANHY,STY,SL/F,PF,00L
146	4595.0-96.0	7.7	7.3	15.0	28.7	25.7	2.86	DOL,SL/ANHY,STY,SL/V,00L
147	4596.0-97.0	3.1	2.6	12.1	34.0	14.7	2.89	DOL,SL/ANHY,STY,SL/F,SL/V
S 148	4597.0-98.0	5.8	2.5	10.5	23.2	26.4	2.85	DOL,SL/ANHY,STY,F,SL/V
149	4598.0-99.0	20.	*	14.1	17.0	49.5	2.85	DOL,SL/ANHY,STY,V/F,V
150	4599.0-00.0	36.	13.	15.8	18.3	36.8	2.88	DOL,SL/ANHY,STY,SL/F,PF,00L
151	4600.0-01.0	8.1	3.6	15.1	24.7	29.2	2.85	DOL,SL/ANHY,PF,00L
152	4601.0-02.0	11.	6.9	15.7	14.4	37.7	2.85	DOL,SL/ANHY
S 153	4602.0-03.0	35.	33.	15.4	15.2	35.5	2.84	DOL,SL/ANHY,V/F,PF,00L
154	4603.0-04.0	1.6	1.3	8.1	13.3	32.8	2.84	DOL,SL/ANHY,STY,F,SL/V
S 155	4604.0-05.0	5.9	5.2	9.3	16.8	31.8	2.83	DOL,SL/ANHY,STY,SL/F,FOSS
156	4605.0-06.0	5.5	4.9	10.9	13.9	28.1	2.84	DOL,ANHY,STY,SL/F,V,FOSS,SHR

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Petroleum Reservoir Engineering
DALLAS, TEXAS

PHILLIPS PETROLEUM COMPANY
EVGSA TRACT 3308 WELL NO. 3

DATE : 7-26-79
FORMATION : SAN ANDRES

FILE NO : 3202-11225
ANALYSTS : NEFF

FULL DIAMETER ANALYSIS

SAMPLE NUMBER	DEPTH	PERM. TO AIR (MD) MAXIMUM	POR. He	FLUID SATS.		GRAIN DEN	DESCRIPTION
				OIL	WTR		
S 157	4606.0-07.0	18.	13.4	12.9	26.9	2.83	DOL, ANHY, STY, F, V, FOSS, SHR
158	4607.0-08.0	1.3	6.2	24.4	57.2	2.77	DOL, SL/ANHY, STY, V/F, SL/V, SHR
159	4608.0-09.0	4.6	2.8	25.7	71.4	2.82	DOL, SL/ANHY, STY, F, V, FOSS, SHR
160	4609.0-10.0	4.7	6.5	17.2	34.0	2.85	DOL, SL/ANHY, STY, F, V, FOSS
161	4610.0-11.0	7.0	6.4	12.2	40.5	2.85	DOL, SL/ANHY, STY, V/F, SL/V
162	4611.0-12.0	33.	14.0	20.5	28.5	2.86	DOL, SL/ANHY, STY, SL/F, PF
163	4612.0-13.0	25.	11.2	22.3	29.8	2.79	DOL, SL/ANHY, STY, V/F, V
164	4613.0-14.0	4.9	10.9	15.7	26.1	2.87	DOL, ANHY, STY, F, V
S 165	4614.0-15.0	7.2	9.3	27.5	26.1	2.79	DOL, SL/ANHY, STY, SL/F, SL/V
166	4615.0-16.0	11.	11.1	12.4	26.5	2.83	DOL, SL/ANHY, STY, F, SL/V, OOL
S 167	4616.0-17.0	5.9	5.8	21.4	35.6	2.80	DOL, SL/ANHY, STY, F, SL/V, OOL
168	4617.0-18.0	4.8	9.8	12.4	28.8	2.87	DOL, SL/ANHY, STY, SL/F, PF
169	4618.0-19.0	5.1	7.2	12.7	34.6	2.83	DOL, SL/ANHY, STY, V/F, SL/V
S 170	4619.0-20.0	7.0	11.5	16.1	21.1	2.85	DOL, SL/ANHY, STY, SL/F, V
S 171	4620.0-21.0	5.0	8.8	24.3	21.6	2.86	DOL, SL/ANHY, STY, F, V, FOSS
172	4621.0-22.0	0.8	3.5	25.2	51.4	2.82	DOL, SL/ANHY, STY, F, V
S 173	4622.0-23.0	5.5	11.0	18.4	17.5	2.84	DOL, SL/ANHY, STY, SL/V, SL/F
174	4623.0-24.0	3.3	5.4	17.4	30.0	2.84	DOL, SL/ANHY, STY, V/F, SL/V
175	4624.0-25.0	0.1	4.1	16.7	46.3	2.84	DOL, SL/ANHY, STY, F, V
S 176	4625.0-26.0	9.9	4.1	11.4	49.1	2.85	DOL, SL/ANHY, STY, V/F, V
S 177	4626.0-27.0	7.0	12.1	9.2	34.2	2.84	DOL, SL/ANHY, SL/F, V
178	4627.0-28.0	2.3	8.3	24.2	22.0	2.83	DOL, SL/ANHY, STY, V/F, SL/V
179	4628.0-29.0	<0.1	9.3	8.4	34.8	2.83	DOL, SL/ANHY, F, V
CORE NO. 5 4629.0-4659.0 CUT 30' RED 30'							
180	4629.0-30.0	<0.1	6.8	6.1	85.3	2.83	DOL, V/F, SL/V
181	4630.0-31.0	<0.1	7.4	8.8	73.0	2.85	DOL, V/F
182	4631.0-32.0	<0.1	8.2	14.1	70.3	2.89	DOL, V/F
183	4632.0-33.0	<0.1	6.4	9.8	71.0	2.84	DOL, STY, V/F

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Petroleum Reservoir Engineering
 DALLAS, TEXAS

PHILLIPS PETROLEUM COMPANY
 EVGSA TRACT 3308 WELL NO. 3

DATE : 7-26-79
 FORMATION : SAN ANDRES

FILE NO : 3202-11225
 ANALYSTS : NEFF

FULL DIAMETER ANALYSIS

SAMPLE NUMBER	DEPTH	PERM. TO AIR (MD) MAXIMUM	POR. He	FLUID SATS.		GRAIN DEN	DESCRIPTION
				OIL	WTR		
184	4633.0-34.0	0.3	13.5	19.1	39.8	2.85	DOL,V/F
185	4634.0-35.0	0.1	15.9	24.7	31.6	2.86	DOL,V/F
186	4635.0-36.0	0.2	14.7	24.8	30.7	2.85	DOL,V/F
187	4636.0-37.0	0.4	13.8	17.8	35.6	2.85	DOL,V/F,V
S 188	4637.0-38.0	37.	12.7	15.8	27.5	2.86	DOL,STY,V/F
189	4638.0-39.0	17.	10.4	18.0	26.4	2.84	DOL,F,STY,SHR
190	4639.0-40.0	16.	7.4	15.3	33.9	2.84	DOL,STY,V/F,PP
S 191	4640.0-41.0	12.	10.8	18.5	31.8	2.83	DOL,STY,V/F,PP
192	4641.0-42.0	20.	11.3	23.6	27.5	2.87	DOL,STY,V/F,PP
193	4642.0-43.0	7.9	8.2	13.6	31.3	2.83	DOL,STY,SL/F,PP
194	4643.0-44.0	45.	10.5	13.7	33.8	2.83	DOL,V,STY,V/F
195	4644.0-45.0	25.	8.4	20.7	35.5	2.82	DOL,STY,V/F,SL/V,SHR
S 196	4645.0-46.0	4.8	11.8	22.4	31.1	2.83	DOL,STY,SL/F
197	4646.0-47.0	0.9	11.3	26.6	30.2	2.83	DOL,STY,SL/F
198	4647.0-48.0	0.4	15.0	16.0	40.4	2.83	DOL,V/F,V
S 199	4648.0-49.0	10.	10.7	15.0	33.9	2.85	DOL,DOL,STY
200	4649.0-50.0	5.4	7.1	17.0	39.1	2.84	DOL,PP,STY,SL/F
201	4650.0-51.0	0.2	6.4	8.1	51.6	2.87	DOL,STY,V/F
202	4651.0-52.0	<0.1	6.5	21.3	43.3	2.88	DOL,V/F,STY
203	4652.0-53.0	0.2	9.7	17.1	40.3	2.85	DOL,STY,V/F
S 204	4653.0-54.0	2.9	10.7	16.3	37.3	2.86	DOL,PP
205	4654.0-55.0	15.	10.5	13.1	43.8	2.85	DOL,STY,SL/F,PP
206	4655.0-56.0	5.5	10.0	17.3	28.8	2.85	DOL,STY,PP
S 207	4656.0-57.0	<0.1	7.4	10.8	42.2	2.86	DOL,STY,V/F
208	4657.0-58.0	5.0	5.1	18.6	40.1	2.85	DOL,STY,F
209	4658.0-59.0	<0.1	5.7	16.5	35.8	2.86	DOL,V/F,STY

* INDICATES PLUG PERM

S INDICATES PRESERVED SAMPLE

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LITHOLOGICAL ABBREVIATIONS

ANH(Y)	ANHYDRITE, ANHYDRITIC	LAM	LAMINATED
ARK	ARKOSE, ARKOSIC	LM(Y)	LIMESTONE, LIMY
BAN	BAND, BANDED	MG	MEDIUM GRAINED
BREC	BRECCIA, BRECCIATED	MTX	MATRIX
CALC	CALCITE, CALCAREOUS	NOD	NODULE, NODULAR
CARB	CARBONACEOUS	OOL	OOLITIC
CG	COARSE GRAINED	PISO	PISOLITIC
CHK(Y)	CHALK, CHALKY	PF	PINPOINT POROSITY
CHT(Y)	CHERT, CHERTY	PT	PARTING
CONGL	CONGLOMERATE, CONGLOMERITIC	PYR	PYRITE, PYRITIC
CXLN	COARSELY CRYSTALLINE	SD(Y)	SANDSTONE, SANDY
INS	DENSE	SH(Y)	SHALE, SHALY
DOL(C)	DOLOMITE, DOLOMITIC	SHR	SOLID HYDROCARBON RESIDUE
F	RANDOMLY ORIENTED FRACTURES	SL/	SLIGHTLY
FG	FINE GRAINED	SLT(Y)	SILTSTONE, SILTY
FOSS	FOSSILIFEROUS	STY	STYLOLITE, STYLOLITIC
FR	FRIABLE	SUC	SUCROSLIC
FXLN	FINELY CRYSTALLINE	SUL	SULPHUR
GAL	GALENA	TBFA	TOO BROKEN FOR ANALYSIS
GLAUC	GLAUCONITE, GLAUCONITIC	TRIP	TRIPOLITE
GRAN	GRANITE	V/	VERY
GRAN WASH	GRANITE WASH	VF	PREDOMINANTLY VERTICALLY FRACTURED
GYP	GYPSEUM, GYPSIFEROUS	UGY	UGULAR
HIF	PREDOMINANTLY HORIZONTALLY FRACTURED	XBD	CROSSBEDDED
INC	INCLUSION	XLN	MEDIUM CRYSTALLINE
INTBU	INTERBEDDED	XTL	CRYSTAL

THE FIRST WORD IN THE DESCRIPTION COLUMN OF THE CORE ANALYSIS REPORT DESCRIBES THE ROCK TYPE. FOLLOWING ARE ROCK MODIFIERS IN DECREASING ABUNDANCE AND MISCELLANEOUS DESCRIPTIVE TERMS.

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