

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

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LAND OFFICE	
OPERATOR	

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

API No. 30-025-26923

5a. Indicate Type of Lease	
State ☒	Fee ☐
5. State Oil & Gas Lease No.	
B-1497	
7. Unit Agreement Name	
East Vacuum Gb/SA	
8. Farm or Lease Name	
East Vacuum Gb/SA Unit	
Tract 2622	
9. Well No.	
006	
10. Field and Pool, or Wildcat	
Vacuum Gb/SA	
12. County	
Lea	
15. Date Spudded	
7-30-80	
16. Date T.D. Reached	
8-15-80	
17. Date Compl. (Ready to Prod.)	
3918 RKB, 3906 GL	
18. Elevations (DF, RKB, RT, GR, etc.)	

19. Elev. Casinghead	

20. Total Dep'n	
4800'	
21. Plug Back T.D.	
4695'	
22. If Multiple Compl., How Many	
NA	
23. Intervals Drilled By	
rotary	
24. Producing Interval(s), of this completion - Top, Bottom, Name	
Grayburg - San Andres Top: 4097', Bottom: 4800'	
25. Was Directional Survey Made	
No	
26. Type Electric and Other Logs Run	
Schlumberger - Compensated Neutron Log (Cased Hole)	
27. Was Well Cored	
Yes-attached analysis	

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24#, K-55	356'	12-1/4" (w/350 sxs C1 "H" w/2% CaCl ₂ , 1/4#/sx)---		
			(Flocele; circ 200 sxs to surface)		
5-1/2"	14#, K-55	4800'	7-7/8" (w/1200 sxs TIW w/12#/sx salt, 10% DD, 1/4#/sx)---		
			(Flocele, 3#/sx Gilsonite, followed w/300 sxs C1 "H" w/5#/sx salt; circ 180 sx surf)		

LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					*2-7/8"	4400'	4400'
					(plastic lined)		

31. Perforation Record (Interval, size and number)

Perf'd 5-1/2" csg w/1 JSPF @

4480'-4507'

4541'-4549'

4555'-4559'

39'--39 shots

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
4480'-4559'	11,370 gals 15% Ne HCl
	w/scale inhibitor & LST agent

PRODUCTION

33. Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in)	
*		---				water injection	
Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
---	---	---	---	---	---	---	---
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)	
---	---	---	---	---	---	---	
34. Disposition of Gas (Sold, used for fuel, vented, etc.)						Test Witnessed By	
NA						NA	

35. List of Attachments

Logs will be furnished direct by Schlumberger

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

*Started water injection 8/17/81 at 1500 BWPD at 95#.

SIGNED *W. J. Mueller*

TITLE Sr. Engineering Specialist

DATE 8-19-81

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

Chinle (Redbeds)	235'	T. Canyon	T. Ojo Alamo	T. Penn. "B"
XXXXXX Rustler	1662'	T. Strawn	T. Kirtland-Fruitland	T. Penn. "C"
XXXXXX Salado	1783'	T. Atoka	T. Pictured Cliffs	T. Penn. "D"
XXXXXX T. Yates	2900'	T. Miss	T. Cliff House	T. Leadville
T. 7 Rivers		T. Devonian	T. Menefee	T. Madison
T. Queen	3765'	T. Silurian	T. Point Lookout	T. Elbert
T. Grayburg	4097'	T. Montoya	T. Mancos	T. McCracken
T. San Andres	4426'	T. Simpson	T. Gallup	T. Ignacio Qtzite
T. Glorieta		T. McKee	Base Greenhorn	T. Granite
T. Paddock		T. Ellenburger	T. Dakota	
T. Blinberry		T. Gr. Wash	T. Morrison	
T. Tubb		T. Granite	T. Todilto	
T. Drinkard		T. Delaware Sand	T. Entrada	
T. Abo		T. Bone Springs	T. Wingate	
T. Wolfcamp			T. Chinle	
T. Penn.			T. Permian	
T. Cisco (Bough C)			T. Penn. "A"	

OIL OR GAS SANDS OR ZONES

No. 1, from _____ to _____ No. 4, from _____ to _____
 No. 2, from _____ to _____ No. 5, from _____ to _____
 No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from _____ to _____ feet.
 No. 2, from _____ to _____ feet.
 No. 3, from _____ to _____ feet.
 No. 4, from _____ to _____ feet.

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	1017	1017	Redbed				
1017	2598	1581	Anhy/Salt				
2598	3137	539	Salt/Anhy				
3137	3675	538	Anhy/Shale				
3675	3753	78	Anhy/Shale/Dolo				
3753	3963	210	Anhy/Dolo				
3963	4042	79	Anhy/Shale/Dolo				
4042	4276	234	Anhy/Dolo				
4276	4800	524	Dolo				
	TD						

RECEIVED

AUG 21 1981

OIL CONSERVATION DIV

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

CORE ANALYSIS REPORT

FOR

PHILLIPS PETROLEUM COMPANY

**EVGSAV TRACT NO. 2622-006
VACUUM FIELD
LEA COUNTY, NEW MEXICO**

PRELIMINARY PRINT

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
 DALLAS, TEXAS

PAGE 1

PHILLIPS PETROLEUM COMPANY
 EVGSAY TRACT NO. 2622-006
 VACUUM FIELD
 LEA COUNTY, NEW MEXICO

DATE : 8-11-80
 FORMATION : SAN ANDRES
 DRLG. FLUID: SALT WATER BASE MUD
 LOCATION : 1500' FNL & 2450' FWL, SEC. 26, T-17-S, R-35-E, UNIT F

FILE NO : 3202-11868
 ANALYSTS : DEVIER
 LABORATORY: MIDLAND TEXAS

FULL DIAMETER ANALYSIS

SAMPLE NUMBER	DEPTH FEET	PERM MAXIMUM	PERM 90 DEG	HE POR	OIL% PORE	WTR% PORE	GRAIN DEN	DESCRIPTION
CORE NO. 1 4450.0-4510.0 CUT 60' REC 57'								
1	4450.0-51.0	<0.1	<0.1	1.5	29.8	33.1	2.88	DOL ANHY SL/V STY
2	4451.0-52.0	<0.1	<0.1	2.1	44.4	40.1	2.87	DOL SL/ANHY VF PP
3	4452.0-53.0	0.1	<0.1	4.7	27.3	36.4	2.84	DOL SL/ANHY VF PP
S 4	4453.0-54.0	0.1	<0.1	3.3	24.7	34.2	2.84	DOL VF PP
5	4454.0-55.0	0.1	<0.1	3.3	18.8	62.5	2.85	DOL VF PP FOSS
6	4455.0-56.0	0.2	<0.1	2.8	14.4	37.4	2.85	DOL VF PP FOSS
7	4456.0-57.0	0.3	<0.1	3.2	14.1	36.5	2.83	DOL F PP FOSS STY
8	4457.0-58.0	0.3	<0.1	3.6	11.6	51.4	2.80	DOL F PP FOSS
9	4458.0-59.0	0.1	<0.1	3.5	17.9	42.3	2.84	DOL PP FOSS OOL STY
10	4459.0-60.0	<0.1	<0.1	2.0	28.1	37.5	2.84	DOL VF PP OOL STY
11	4460.0-61.0	0.2	<0.1	3.4	9.2	87.3	2.81	DOL PP SHLAM STY
12	4461.0-62.0	<0.1	<0.1	2.4	28.3	49.3	2.85	DOL SL/ANHY F PP STY
13	4462.0-63.0	0.1	<0.1	2.4	23.1	64.1	2.83	DOL VF PP STY
14	4463.0-64.0	0.1	<0.1	2.3	26.5	35.3	2.83	DOL VF PP FOSS STY
15	4464.0-65.0	0.1	0.1	3.3	28.0	38.9	2.86	DOL VF PP FOSS
16	4465.0-66.0	0.2	<0.1	4.1	28.3	55.9	2.87	DOL SL/ANHY VF PP FOSS
S 17	4466.0-67.0	0.1	0.1	5.6	18.8	32.7	2.84	DOL VF PP FOSS STY
18	4467.0-68.0	0.4	0.1	2.7	19.9	33.1	2.84	DOL F PP FOSS STY
19	4468.0-69.0	<0.1	<0.1	2.0	11.4	50.6	2.83	DOL ANHY F PP STY
20	4469.0-70.0	<0.1	<0.1	1.7	12.6	52.4	2.82	DOL SL/ANHY F PP STY
21	4470.0-71.0	<0.1	<0.1	2.8	29.8	45.5	2.84	DOL V FOSS STY
22	4471.0-72.0	0.1	<0.1	2.0	32.9	36.6	2.86	DOL SL/ANHY SL/V PP FOSS
23	4472.0-73.0	<0.1	<0.1	4.4	16.3	81.4	2.85	DOL SL/SHY F
24	4473.0-74.0	0.2	<0.1	2.7	30.3	36.1	2.84	DOL VF PP FOSS

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

PAGE 2

PHILLIPS PETROLEUM COMPANY
EUGSAV TRACT NO. 2622-006

DATE : 8-11-80
FORMATION : SAN ANDRES

FILE NO : 3202-11868
ANALYSTS : DEVIER

FULL DIAMETER ANALYSIS

SAMPLE NUMBER	DEPTH FEET	PERM MAXIMUM	PERM 90 DEG	HE FOR	OILZ PORE	WTRZ PORE	GRAIN DEN	DESCRIPTION
S 25	4474.0-75.0	<0.1	<0.1	2.6	24.7	41.1	2.84	DOL F PP FOSS STY
26	4475.0-76.0	0.4	0.1	4.0	30.2	41.9	2.83	DOL SL/V FOSS STY
27	4476.0-77.0	0.2	0.1	4.0	26.5	34.9	2.83	DOL F SL/V FOSS STY
28	4477.0-78.0	77.	70.	14.5	9.1	33.1	2.83	DOL SL/ANHY VF PP FOSS
29	4478.0-79.0	53.	44.	14.7	10.9	33.2	2.85	DOL SL/ANHY VF PP
30	4479.0-80.0	22.	15.	11.6	10.7	33.1	2.89	DOL SL/ANHY VF SL/V PP FOSS
31	4480.0-81.0	88.	60.	14.7	21.7	25.0	2.84	DOL SL/ANHY VF FOSS
32	4481.0-82.0	18.	13.	13.6	16.9	26.8	2.85	DOL SL/ANHY SL/V PP FOSS
33	4482.0-83.0	18.	14.	8.3	12.9	34.3	2.81	DOL VF SL/V PP FOSS
S 34	4483.0-84.0	7.0	1.8	8.4	19.7	27.3	2.87	DOL SL/ANHY V F PP FOSS
35	4484.0-85.0	3.6	1.6	7.9	12.9	29.5	2.86	DOL SL/ANHY VF PP
36	4485.0-86.0	7.1	2.4	9.0	11.3	32.5	2.84	DOL VF PP FOSS
37	4486.0-87.0	2.7	2.4	8.3	26.5	33.1	2.85	DOL V VF FOSS
38	4487.0-88.0	32.	18.	12.7	24.4	23.6	2.86	DOL VF SL/V PP FOSS
39	4488.0-89.0	22.	13.	9.3	13.7	30.5	2.86	DOL V VF FOSS
* 40	4489.0-90.0	7.3		7.2	15.2	39.9	2.78	DOL VF PP
41	4490.0-91.0	0.8	0.8	5.8	40.9	54.5	2.80	DOL SL/ANHY VF PP
42	4491.0-92.0	7.1	6.1	9.7	19.7	32.0	2.82	DOL VF PP FOSS
S 43	4492.0-93.0	10.	9.1	7.2	25.2	42.1	2.83	DOL SL/ANHY SL/V F
44	4493.0-94.0	2.2	2.1	6.9	28.6	41.7	2.80	DOL SL/ANHY VF SL/V
45	4494.0-95.0	17.	14.	11.3	20.9	29.5	2.81	DOL SL/ANHY VF SL/V
46	4495.0-96.0	31.	29.	8.4	29.0	41.9	2.77	DOL VF SL/V PP FOSS
47	4496.0-97.0	3.9	2.8	7.4	25.6	42.2	2.83	DOL SL/V VF PP
48	4497.0-98.0	4.4	1.7	4.2	36.0	36.0	2.87	DOL VF PP FOSS
49	4498.0-99.0	6.2	1.7	5.9	25.4	25.4	2.85	DOL VF V FOSS
50	4499.0- 0.0	0.8	0.3	2.3	25.8	52.6	2.84	DOL V VF SHLAM FOSS
* 51	4500.0- 1.0	7.1		7.7	18.9	32.6	2.79	DOL VF V FOSS
52	4501.0- 2.0	2.7	1.6	4.3	24.7	30.8	2.82	DOL VF PP V FOSS
53	4502.0- 3.0	1.9	1.6	4.3	27.3	42.4	2.86	DOL SL/ANHY VF
54	4503.0- 4.0	4.9	3.6	3.2	32.4	54.1	2.84	DOL VF

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
 DALLAS, TEXAS

PAGE 3

PHILLIPS PETROLEUM COMPANY
 EVGSAV TRACT NO. 2622-006

DATE : 8-11-80
 FORMATION : SAN ANDRES

FILE NO : 3202-11868
 ANALYSTS : DEVIER

FULL DIAMETER ANALYSIS

SAMPLE NUMBER	DEPTH FEET	PERM MAXIMUM	PERM 90 DEG	HE POR	OIL% PORE	WTR% PORE	GRAIN DEN	DESCRIPTION
* 55	4504.0-5.0	0.1		2.1	18.7	64.2	2.82	DOL VF STY
56	4505.0-6.0	0.2	<0.1	3.1	25.2	51.4	2.87	DOL VF SL/V FOSS
57	4506.0-7.0	0.2	<0.1	1.9	14.1	46.9	2.88	DOL VF SL/V FOSS
	4507.0-10.0							LOST CORE
CORE NO. 2 4510.0-4567.0 CUT 57' REC 56'								
	4510.0-17.0							NA DOL
58	4517.0-18.0	0.5	0.1	4.2	10.2	47.6	2.84	DOL SL/ANH SL/SHY VF PP
59	4518.0-19.0	0.1	0.1	3.7	8.7	89.7	2.87	DOL SL/ANH VF SL/V STY
60	4519.0-20.0	0.3	<0.1	2.2	6.0	63.8	2.81	DOL SL/ANH VF SL/V STY
61	4520.0-21.0	3.1	0.5	4.5	11.1	48.1	2.87	DOL SL/ANH SL/SHY VF PP STY
62	4521.0-22.0	0.3	<0.1	3.6	14.3	61.8	2.88	DOL SL/ANH VF SL/V STY
63	4522.0-23.0	2.3	0.8	7.6	5.1	67.5	2.81	DOL SL/ANH SL/V PP STY
64	4523.0-24.0	2.9	2.9	3.9	17.5	61.5	2.84	DOL SL/ANH VF V STY
	4524.0-25.0							NA DOL
65	4525.0-26.0	2.0	1.2	1.6	17.5	58.3	2.86	DOL SL/ANH VF STY
	4526.0-35.0							NA DOL ANHY
66	4535.0-36.0	0.9	0.9	1.8	16.7	78.7	2.84	DOL SL/ANH VF SL/V STY
	4536.0-37.0							NA ANH
67	4537.0-38.0	1.5	1.0	2.8	13.3	66.4	2.85	DOL SL/ANH F SL/V STY
* 68	4538.0-39.0	<0.1		2.7	10.7	60.9	2.82	DOL SL/ANH VF STY
* 69	4539.0-40.0	<0.1		2.3	8.7	52.8	2.83	DOL VF STY
70	4540.0-41.0	0.2	<0.1	1.9	6.3	55.6	2.84	DOL SL/ANH SL/SHY VF SL/V STY
71	4541.0-42.0	1.3	1.3	2.1	18.4	51.0	2.81	DOL SL/ANH VF SL/V STY
72	4542.0-43.0	1.2	0.7	7.3	16.5	25.3	2.79	DOL SL/ANH VF SL/V PP STY
* 73	4543.0-44.0	0.7		9.1	10.0	48.9	2.85	DOL SL/ANH SL/SHY VF SL/V STY
74	4544.0-45.0	1.5	1.1	6.2	8.5	23.5	2.84	DOL SL/SHY VF SL/V STY
75	4545.0-46.0	9.8	5.6	7.4	13.0	29.0	2.85	DOL SL/ANH SL/SHY VF SL/V PP

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

PHILLIPS PETROLEUM COMPANY
EUGSAV TRACT NO. 2622-006

DATE : 8-11-80
FORMATION : SAN ANDRES

FILE NO : 3202-11868
ANALYSTS : DEVIER

PAGE 4

FULL DIAMETER ANALYSIS

SAMPLE NUMBER	DEPTH FEET	PERM MAXIMUM	PERM 90 DEG	HE POR	OILX PORE	WTRZ PORE	GRAIN DEN	DESCRIPTION
76	4546.0-47.0	24.	12.	4.5	14.9	29.0	2.84	DOL SL/ANHY SL/SHY VF SL/V PP
77	4547.0-48.0	28.	4.3	6.1	18.2	27.3	2.86	DOL ANHY VF SL/V PP STY
78	4548.0-49.0	1.0	0.6	9.1	14.2	25.6	2.85	DOL SL/ANHY SL/SHY VF SL/V PP
79	4549.0-50.0	0.7	0.2	4.2	20.2	40.6	2.83	DOL SL/SHY VF SL/V PP STY
80	4550.0-51.0	8.4	0.8	2.1	8.7	43.3	2.84	DOL ANHY VF SL/V PP STY
81	4551.0-52.0	0.1	<0.1	1.0	19.4	48.4	2.85	DOL ANHY VF STY
	4552.0-53.0							NA ANH
82	4553.0-54.0	0.1	<0.1	1.8	8.7	48.1	2.80	DOL SL/ANHY VF STY
83	4554.0-55.0	1.6	1.3	4.0	12.4	25.8		DOL ANHY VF PP STY
* 84	4555.0-56.0	1.0		6.0	12.0	49.3	2.82	DOL SL/ANHY VF PP STY
* 85	4556.0-57.0	0.5		7.5	11.4	52.9	2.87	DOL SL/ANHY VF STY
86	4557.0-58.0	0.7	<0.1	3.8	13.5	41.4	2.80	DOL VF SL/V
87	4558.0-59.0	0.1		2.1	4.9	48.0	2.85	DOL SL/ANHY VF SL/V PP STY
88	4559.0-60.0	3.0	<0.1	1.5	5.2	92.0	2.83	DOL SL/SHY VF STY
89	4560.0-61.0	0.1	<0.1	1.2	11.4	82.3	2.83	DOL SL/SHY VF STY
90	4561.0-62.0	<0.1	<0.1	2.4	29.0	35.5	2.84	DOL SL/SHY VF STY
91	4562.0-63.0	0.2	<0.1	2.6	8.3	41.3	2.84	DOL SL/ANHY SL/SHY VF SL/V STY
92	4563.0-64.0	0.2	0.1	2.4	7.6	58.8	2.85	DOL SL/ANHY VF SL/V FOSS STY
93	4564.0-65.0	<0.1	<0.1	2.5	4.6	67.0	2.86	DOL ANHY VF SL/V FOSS
* 94	4565.0-66.0	0.6		3.5	15.3	55.1	2.84	DOL ANHY VF SL/V PP STY
	4566.0-67.0							LOST CORE
CORE NO. 3 4567.0-4627.0 CUT 60' REC 60'								
95	4567.0-68.0	1.0	0.8	6.2	20.0	28.3	2.83	DOL VF SL/V PP
96	4568.0-69.0	2.1	0.2	4.2	19.8	34.6	2.83	DOL SL/ANHY VF SL/V STY
S 97	4569.0-70.0	8.0	3.2	4.5	14.8	39.3	2.82	DOL VF STY
98	4570.0-71.0	3.8	2.6	2.9	6.4	58.3	2.83	DOL PYRC VF PP STY
99	4571.0-72.0	1.4	1.1	4.3	23.5	35.8	2.83	DOL VF PP STY

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering

DALLAS, TEXAS

PHILLIPS PETROLEUM COMPANY
EVGSAY TRACT NO. 2622-006

DATE : 8-11-80
FORMATION : SAN ANDRES

FILE NO : 3202-11868
ANALYSTS : DEVIER

PAGE 5

FULL DIAMETER ANALYSIS

SAMPLE NUMBER	DEPTH FEET	PERM MAXIMUM	PERM 90 DEG	HE POR	OILZ PORE	WTRZ PORE	GRAIN DEN	DESCRIPTION
100	4572.0-73.0	1.4	0.8	2.7	8.9	56.3	2.85	DOL SL/ANHY VF SL/V PP
101	4573.0-74.0	2.4	2.0	2.3	4.8	52.9	2.82	DOL SL/ANHY VF SL/V FOSS STY
102	4574.0-75.0	3.4	1.1	1.9	14.8	68.7	2.80	DOL SL/ANHY VF SL/V STY
103	4575.0-76.0	0.7	0.4	1.3	11.4	63.3	2.85	DOL SL/ANHY VF STY
104	4576.0-77.0	0.6	0.5	0.8	12.2	74.3	2.84	DOL SL/ANHY VF PP STY
105	4577.0-78.0	<0.1	<0.1	2.5	15.3	33.9	2.85	DOL SL/ANHY VF PP STY
S 106	4578.0-79.0	<0.1	<0.1	2.5	5.0	33.5	2.84	DOL SL/ANHY VF PP
107	4579.0-80.0	<0.1	<0.1	0.9	12.2	74.3	2.84	DOL SL/ANHY VF STY
108	4580.0-84.0							NA DOL ANHY
109	4584.0-85.0	0.2	<0.1	1.7	13.0	43.5	2.85	DOL SL/ANHY VF PP STY
110	4585.0-86.0	<0.1	<0.1	2.2	13.0	79.7	2.85	DOL VF PP STY
111	4586.0-87.0	<0.1	<0.1	1.1	9.1	80.8	2.84	DOL SL/ANHY VF STY
112	4587.0-88.0	0.3	0.2	5.2	17.2	20.2	2.86	DOL ANHY F PP STY
113	4588.0-89.0	2.3	2.3	4.1	14.1	25.0	2.85	DOL ANHY VF PP STY
S 114	4589.0-90.0	0.2	0.1	2.7	15.9	35.4	2.84	DOL SL/ANHY SL/V VF
115	4590.0-91.0	0.5	0.1	3.6	11.9	22.0	2.84	DOL ANHY VF SL/V PP STY
116	4591.0-92.0	1.4	1.3	3.9	13.8	23.1	2.84	DOL SL/ANHY SL/V VF STY
117	4592.0-93.0	1.5	0.8	4.5	24.3	20.2	2.84	DOL SL/ANHY SL/V VF PP FOSS STY
118	4593.0-94.0	4.5	2.5	6.7	17.3	28.0	2.83	DOL SL/ANHY SL/V VF PP FOSS STY
119	4594.0-95.0	2.6	2.5	4.4	7.9	26.3	2.83	DOL SL/ANHY SL/V VF PP FOSS STY
120	4595.0-96.0	1.0	0.5	4.7	10.0	48.5	2.84	DOL SL/ANHY VF PP STY
121	4596.0-97.0	0.1	<0.1	2.7	11.8	52.3	2.83	DOL SL/V SL/F VF FOSS STY
122	4597.0-98.0	0.8	0.7	2.7	11.2	41.3	2.85	DOL ANHY VF PP FOSS STY
123	4598.0-99.0	1.3	0.6	2.4	9.3	44.0	2.83	DOL ANHY VF SL/V PP STY
124	4599.0-0.0	<0.1	<0.1	1.1	9.6	53.2	2.85	DOL SL/ANHY SHY VF SHLAM
125	4600.0-15.0							NA DOL ANHY
S 126	4615.0-16.0	0.1	<0.1	2.5	10.4	40.5	2.86	DOL SL/ANHY VF PP STY
127	4616.0-17.0	0.1	<0.1	2.1	15.3	33.9	2.85	DOL SL/ANHY VF PP STY
128	4617.0-18.0	0.2	<0.1	2.0	5.2	40.2	2.84	DOL SL/ANHY VF PP FOSS STY
129	4618.0-19.0	<0.1	<0.1	0.7	16.7	64.8	2.83	DOL ANHY VF PP FOSS STY

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

PAGE 6

PHILLIPS PETROLEUM COMPANY
EUGSAV TRACT NO. 2622-006

DATE : 8-11-80
FORMATION : SAN ANDRES

FILE NO : 3202-11868
ANALYSTS : DEVIER

FULL DIAMETER ANALYSIS

SAMPLE NUMBER	DEPTH FEET	PERM MAXIMUM	PERM 90 DEG	HE POR	OIL% PORE	WTR% PORE	GRAIN DEN	DESCRIPTION
128	4619.0-20.0 4620.0-27.0	<0.1	<0.1	0.5	20.5	68.2	2.81	DOL SL/ANHY SL/V VF PP FOSS STY NA DOL ANHY
CORE NO. 4 4627.0-4685.0 CUT 57' REC 58'								
	4627.0-49.0							NA DOL V/ANHY STY
	4649.0-62.0							NA DOL ANHY SHLAM STY
	4662.0-80.5							NA DOL ANHY SHLAM
	4680.5-85.0							NA DOL V/ANHY
CORE NO. 5 4685.0-4745.0 CUT 60' REC 60'								
	4685.0-16.0							NA DOL SL/ANHY
129	4716.0-17.0	<0.1	<0.1	1.1	9.1	65.7	2.86	DOL ANHY STY
130	4717.0-18.0	<0.1	<0.1	1.6	15.3	50.8	2.84	DOL ANHY STY
131	4718.0-19.0	<0.1	<0.1	1.0	21.7	72.3	2.86	DOL ANHY STY
132	4719.0-20.0	<0.1	<0.1	2.2	13.4	49.5	2.85	DOL ANHY SL/F
133	4720.0-21.0	0.4	0.2	2.5	18.8	55.0	2.84	DOL SL/ANHY STY
134	4721.0-22.0	<0.1	<0.1	1.9	7.6	67.2	2.82	DOL SL/ANHY SL/F SHLAM STY
135	4722.0-23.0	0.2	0.2	1.8	5.3	47.3	2.86	DOL ANHY F STY
136	4723.0-24.0	<0.1	<0.1	1.0	9.6	85.1	2.83	DOL ANHY F
S	4724.0-25.0	<0.1	<0.1	1.2	11.4	63.3	2.82	DOL ANHY SL/F PP
138	4725.0-26.0	0.4	0.2	0.7	8.7	48.1	2.83	DOL ANHY SL/F STY
139	4726.0-27.0	0.6	0.4	3.5	20.5	36.9	2.85	DOL ANHY PP STY
140	4727.0-28.0	1.6	1.2	2.6	23.1	29.9	2.82	DOL ANHY F PP
141	4728.0-29.0	7.1	6.1	7.0	15.0	24.2	2.83	DOL ANHY F PP
142	4729.0-30.0	2.0	0.8	8.9	13.1	22.4	2.84	DOL ANHY PP STY
S	4730.0-31.0	3.0	2.4	3.9	7.3	24.2	2.82	DOL SL/ANHY F SL/V STY

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
 DALLAS, TEXAS

PAGE 7

PHILLIPS PETROLEUM COMPANY
 EVGSAV TRACT NO. 2622-006

DATE : 8-11-80
 FORMATION : SAN ANDRES

FILE NO : 3202-11868
 ANALYSTS : DEVIER

FULL DIAMETER ANALYSIS

SAMPLE NUMBER	DEPTH FEET	PERM MAXIMUM	PERM 90 DEG	HE POR	OIL% PORE	WTR% PORE	GRAIN DEN	DESCRIPTION
144	4731.0-32.0	2.4	1.7	2.6	14.9	31.1	2.81	DOL ANHY SL/F SL/V STY
145	4732.0-33.0	0.3	0.2	1.2	12.2	67.6	2.83	DOL ANHY PP SHLAM
146	4733.0-34.0	1.5	0.7	4.8	12.9	24.3	2.85	DOL SL/ANHY SL/F PP SHLAM STY
147	4734.0-35.0	28.	9.1	7.2	12.9	26.6	2.82	DOL SL/ANHY F PP STY
S 148	4735.0-36.0	15.	10.	8.2	14.7	21.0	2.83	DOL SL/ANHY F PP FOSS STY
149	4736.0-37.0	28.	2.3	7.1	14.2	27.6	2.80	DOL SL/ANHY SL/V VF FOSS STY
150	4737.0-38.0	13.	9.2	5.6	8.9	28.9	2.85	DOL SL/SHY ANHY VF SHLAM SL/V STY
151	4738.0-39.0	29.	28.	9.2	8.5	23.6	2.85	DOL ANHY SL/F SL/V FOSS STY
S 152	4739.0-40.0	5.7	4.6	5.6	14.6	29.8	2.83	DOL SL/ANHY SL/V SL/F FOSS
153	4740.0-41.0	11.	11.	7.1	13.0	22.9	2.83	DOL SL/ANHY F V FOSS
154	4741.0-42.0	28.	25.	7.0	10.2	22.6	2.85	DOL SL/ANHY SL/V SL/F FOSS
155	4742.0-43.0	44.	27.	6.8	3.1	26.0	2.83	DOL SL/ANHY SL/SHY F SHLAM SL/V FOSS
156	4743.0-44.0	11.	11.	6.7	16.9	28.2	2.84	DOL SL/ANHY SL/V SL/F FOSS
157	4744.0-45.0	4.8	4.5	5.0	7.9	21.9	2.84	DOL SL/ANHY SL/V SL/F FOSS
CORE NO. 6 4745.0-4800.0 CUT 55' REC 55'								
S 158	4745.0-46.0	0.2	0.1	1.3	11.4	63.3	2.84	DOL ANHY VF SL/V STY
159	4746.0-47.0	0.1	<0.1	1.2	17.5	53.4	2.84	DOL SL/ANHY F VF PP STY
160	4747.0-48.0	0.1	0.1	1.6	22.1	45.1	2.83	DOL ANHY VF V
161	4748.0-49.0	<0.1	<0.1	1.2	20.5	56.8	2.84	DOL ANHY VF V PP
162	4749.0-50.0	<0.1	<0.1	2.1	15.7	52.3	2.83	DOL ANHY VF PP STY
163	4750.0-51.0	0.2	<0.1	3.3	26.4	40.1	2.82	DOL ANHY VF PP STY
164	4751.0-52.0	0.3	<0.1	2.4	14.4	42.8	2.85	DOL ANHY VF PP SL/V STY
S 165	4752.0-53.0	0.1	<0.1	1.9	20.5	49.2	2.88	DOL ANHY F PP
166	4753.0-54.0	<0.1	<0.1	0.8	14.1	70.3	2.84	DOL ANHY F PP
167	4754.0-55.0	<0.1	<0.1	0.8	13.0	29.0	2.88	DOL ANHY PP STY
168	4755.0-56.0	<0.1	<0.1	0.7	0.0	93.4	2.87	DOL U/ANHY VF
169	4756.0-57.0	<0.1	<0.1	0.7	7.9	87.7	2.85	DOL ANHY F FOSS

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
 DALLAS, TEXAS

PAGE 8

PHILLIPS PETROLEUM COMPANY
 EVGSAV TRACT NO. 2622-006

DATE : 8-11-80
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FULL DIAMETER ANALYSIS

SAMPLE NUMBER	DEPTH FEET	PERM MAXIMUM	PERM 90 DEG	HE POR	OIL% PORE	WTR% PORE	GRAIN DEN	DESCRIPTION
170	4757.0-58.0	0.2	<0.1	2.0	7.3	64.5	2.83	DOL ANHY VF PP
171	4758.0-59.0	0.2	<0.1	2.3	7.0	38.8	2.85	DOL ANHY F SL/V PP STY
S 172	4759.0-60.0	<0.1	<0.1	1.9	8.3	50.5	2.84	DOL SL/ANHY V VF STY
173	4760.0-61.0	0.2	<0.1	2.4	8.9	56.7	2.83	DOL SL/ANHY VF PP STY
174	4761.0-62.0	0.1	<0.1	2.7	11.4	34.8	2.86	DOL ANHY VF SL/V
175	4762.0-63.0	0.1	<0.1	2.7	7.0	58.1	2.84	DOL SL/ANHY F SL/V STY
176	4763.0-64.0	0.2	<0.1	1.8	6.3	72.9	2.86	DOL ANHY VF PP
177	4764.0-65.0	0.1	<0.1	2.0	14.8	82.4	2.84	DOL ANHY VF SL/V
178	4765.0-66.0	0.2	0.2	2.1	8.7	64.9	2.84	DOL SL/ANHY VF PP STY
179	4766.0-67.0	0.2	<0.1	1.9	5.0	53.1	2.83	DOL SL/ANHY VF PP
180	4767.0-68.0	0.2	0.2	3.9	18.0	42.0	2.81	DOL SL/ANHY VF PP
181	4768.0-69.0	0.3	0.1	2.5	8.7	76.9	2.84	DOL VF STY
182	4769.0-70.0	0.9	0.9	3.2	6.6	67.8	2.83	DOL VF STY
183	4770.0-71.0	0.3	0.1	2.2	15.3	53.7	2.84	DOL SL/ANHY VF PP STY
184	4771.0-72.0	1.0	<0.1	4.6	17.6	45.1	2.84	DOL SL/V VF PP
185	4772.0-73.0	2.1	2.0	1.3	5.8	77.9	2.83	DOL SL/ANHY CALC VF V
186	4773.0-74.0	0.7	<0.1	2.2	12.2	43.8	2.84	DOL SL/ANHY VF SL/V PP STY
187	4774.0-75.0	0.2	0.1	2.0	3.7	49.2	2.84	DOL SL/ANHY VF STY
188	4775.0-76.0	2.3	0.7	2.3	8.9	49.3	2.83	DOL SL/ANHY VF SL/V PP
189	4776.0-77.0	1.0	0.2	1.8	13.0	43.5	2.83	DOL SL/ANHY VF SL/V STY
190	4777.0-78.0	1.3	0.5	4.4	2.1	56.6	2.83	DOL SL/ANHY VF SL/V STY
191	4778.0-79.0	1.6	0.3	3.6	5.8	60.1	2.85	DOL SL/ANHY SL/SHY VF PP STY
192	4779.0-80.0	3.1	2.0	2.9	6.6	47.6	2.84	DOL SL/ANHY VF SL/V STY
193	4780.0-81.0	4.2	2.1	1.3	19.4	53.8	2.86	DOL ANHY VF SL/V STY
194	4781.0-82.0	0.9	0.6	2.2	17.5	53.4	2.87	DOL SL/SHY ANHY F FYR STY
195	4782.0-83.0	<0.1	<0.1	1.7	19.4	75.3	2.85	DOL SL/ANHY F STY
196	4783.0-84.0	0.3	<0.1	2.0	28.6	63.5	2.82	DOL VF SL/V FOSS
197	4784.0-85.0	0.2	<0.1	1.8	11.0	79.8	2.81	DOL VF PP STY
198	4785.0-86.0	<0.1	<0.1	2.0	13.5	60.2	2.86	DOL SL/ANHY CALC VF SL/V STY
199	4786.0-87.0	0.3	0.1	2.2	13.5	75.2	2.83	DOL SL/ANHY VF SL/V PP FOSS

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering

DALLAS, TEXAS

PHILLIPS PETROLEUM COMPANY
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 FORMATION : SAN ANDRES

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PAGE 9

FULL DIAMETER ANALYSIS

SAMPLE NUMBER	DEPTH FEET	PERM MAXIMUM	PERM 90 DEG	HE POR	OIL% PORE	WTR% PORE	GRAIN DEN	DESCRIPTION
200	4787.0-88.0	0.9	0.2	1.2	19.4	64.5	2.84	DOL SL/ANHY VF SL/V PP STY
201	4788.0-89.0	2.6	0.5	2.4	13.0	76.1	2.84	DOL SL/ANHY CALC VF SL/V
	2789.0-91.5							NA DOL ANHY
202	2791.5-92.0	1.6	0.4	2.6	15.3	55.1	2.87	DOL SL/ANHY F PP
203	2792.0-93.0	2.3	1.7	2.2	16.7	58.6	2.85	DOL ANHY PP F STY
204	2793.0-94.0	2.1	1.9	2.7	8.1	62.8	2.86	DOL ANHY SL/F PP PYR
205	2794.0-95.0	1.4	0.9	5.0	5.9	34.7	2.82	DOL SL/ANHY VF V PP STY
206	2795.0-96.0	2.2	1.4	7.4	9.6	30.1	2.83	DOL SL/ANHY VF SL/V PP
207	2796.0-97.0	1.0	0.2	3.6	11.9	52.9	2.84	DOL SL/ANHY VF
208	2797.0-98.0	0.4	<0.1	5.6	2.6	48.7	2.86	DOL SL/ANHY V VF
209	2798.0-99.0	4.6	3.4	7.5	8.0	39.9	2.84	DOL SL/ANHY PYRC VF SL/V PP STY
210	2799.0- 0.0	0.8	0.2	6.8	1.8	56.7	2.83	DOL SL/ANHY VF PP

* INDICATES A CONVENTIONAL SAMPLE

S INDICATES A PRESERVED SAMPLE

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

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
DNS	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	TRFA	TOO BROKEN FOR ANALYSIS
GLAUC	GLAUCONITE, GLAUCONITIC	TRIP	TRIPOLITE
GRAN	GRANITE	V	VERY
GRAN WASH	GRANITE WASH	VF	PREDOMINANTLY VERTICALLY FRACTURED
GYP	GYPSUM, GYPSIFEROUS	UGY	UGULAR
HF	PREDOMINANTLY HORIZONTALLY FRACTURED	XBD	CROSSBEDDED
INC	INCLUSION	XLN	MEDIUM CRYSTALLINE
INTBD	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.

