

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

CORE ANALYSIS REPORT

FOR

COASTAL OIL & GAS CORPORATION

GONZALES FEDERAL #31* NO. 7
FLYING N FIELD
LEE COUNTY, NEW MEXICO

I have analyzed, 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 expressed or implied for the use of this report in connection with which such report is used or relied upon.

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
 DALLAS, TEXAS

COASTAL OIL & GAS CORPORATION
 GONZALES FEDERAL "31" NO. 7
 FLYING M FIELD
 LEA COUNTY, NEW MEXICO

DATE : 4-2-81
 FORMATION : SAN ANDRES
 DRLG. FLUID: BRINE GEL
 LOCATION : 1980' FNL & 1980' FEL, SEC. 31, T-9-S, R-33-E

FILE NO : 3202-12251
 ANALYSTS : REINHHEIMER
 LABORATORY: MIDLAND 1510

FULL DIAMETER ANALYSIS

SAMPLE NUMBER	DEPTH FEET	PERH MAXIMUM	PERH 90 DEG	HE POR	OILZ PORE	WTRZ PORE	GRAIN DEN	DESCRIPTION
CORE NO. 1 4218.0-4260.0 CUT 44' REC 42'								
1	4218.0-19.0	0.05	0.05	2.2	5.0	90.0	2.88	DOL SL/ANHY
2	4219.0-20.0	1.6	0.05	3.9	6.2	78.1	2.93	DOL ANHY VF
	4220.0-23.0							NA DOL ANHY
3	4223.0-24.0	0.24	0.13	1.9	23.1	76.9	2.87	DOL SL/ANHY SHLAM STY
4	4224.0-25.0	0.09	0.04	2.6	9.1	88.6	2.86	DOL SL/ANHY SHLAM STY
5	4225.0-26.0	0.07	0.04	2.0	2.7	96.0	2.87	DOL SL/ANHY SL/F STY
6	4226.0-27.0	0.11	0.11	2.2	7.7	88.5	2.85	DOL SL/ANHY SL/F STY
	4227.0-29.5							NA DOL ANHY
7	4229.5-30.0	0.06	0.03	3.4	9.8	70.7	2.93	DOL SL/ANHY
8	4230.0-31.0	1.6	0.13	6.0	6.9	90.8	2.79	DOL SL/ANHY VF STY
9	4231.0-32.0	0.04		5.2	7.7	83.1	2.84	DOL SL/ANHY VF
10	4232.0-33.0	0.02	<0.01	7.5	13.9	75.3	2.79	DOL SL/ANHY VF
11	4233.0-34.0	0.05	<0.01	6.5	15.1	76.3	2.76	DOL SL/ANHY SL/LMY
12	4234.0-35.0	0.28	0.09	8.4	17.6	52.9	2.84	DOL SL/ANHY SL/SHY VF SHLAM
13	4235.0-36.0	0.09	0.09	6.2	16.4	50.8	2.85	DOL SL/ANHY VF
14	4236.0-37.0	0.13	0.03	4.8	21.1	53.4	2.81	DOL SL/ANHY SL/LMY VF
15	4237.0-38.0	0.07	0.05	4.4	35.5	53.1	2.76	DOL SL/ANHY SL/LMY STY
16	4238.0-39.0	0.30	0.11	6.2	31.8	43.2	2.78	DOL SL/ANHY VF
17	4239.0-40.0	0.19	0.19	5.6	24.3	43.0	2.80	DOL SL/ANHY VF
18	4240.0-41.0	0.43	0.22	8.5	14.0	38.6	2.84	DOL SL/ANHY VF FP
19	4241.0-42.0	0.49	0.21	5.5	31.9	35.1	2.79	DOL SL/ANHY SL/LMY VF
20	4242.0-43.0	0.11	0.11	7.4	22.2	27.8	2.82	DOL SL/ANHY
21	4243.0-44.0	0.89	0.81	9.2	13.3	25.4	2.81	DOL SL/ANHY
22	4244.0-45.0	4.8	3.8	10.7	15.3	37.8	2.81	DOL SL/ANHY FP

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 as to the accuracy or completeness 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

COASTAL OIL & GAS CORPORATION
 GONZALES FEDERAL #31 NO. 7

DATE : 4-2-61
 FORMATION : SAN ANDRES

FILE NO : 3202-1220
 ANALYSTS : REINHOLDFER

FULL DIAMETER ANALYSIS

SAMPLE NUMBER	DEPTH FEET	PERM MAXIMUM	PERM 90 DEG	HE FOR	OILZ PORE	WTRZ PORE	GRAIN DEN	DESCRIPTION
23	4243.0-46.0	0.28	0.05	7.9	14.3	42.9	2.85	DOL SL/ANHY VF PP
24	4246.0-47.0	0.05	<0.01	5.1	22.3	49.3	2.83	DOL SL/ANHY PP
25	4247.0-48.0	1.8	0.56	6.9	20.0	35.0	2.78	DOL SL/ANHY SL/LHY VF PP
26	4248.0-49.0	0.13	0.13	8.3	25.5	31.9	2.84	DOL SL/ANHY VF PP
27	4249.0-50.0	0.13	0.08	11.0	19.3	30.1	2.74	DOL LMY SL/ANHY PP
28	4250.0-51.0	5.9	4.6	14.2	10.4	24.8	2.79	DOL SL/ANHY SL/LHY PP
29	4251.0-52.0	0.24	0.21	9.6	8.3	37.2	2.80	DOL SL/ANHY SL/LMY SL/F PP
30	4252.0-53.0	21.	21.	19.7	22.6	28.8	2.84	DOL SL/ANHY
31	4253.0-54.0	26.	23.	20.8	13.1	30.1	2.81	DOL SL/ANHY PP
32	4254.0-55.0	11.	9.7	15.2	29.1	29.1	2.84	DOL SL/ANHY SL/V SL/F
33	4255.0-56.0	50.	50.	20.4	20.9	22.6	2.83	DOL SL/ANHY SL/V
34	4256.0-57.0	6.7	5.3	14.7	25.2	33.6	2.83	DOL SL/ANHY VF
35	4257.0-58.0	71.	62.	22.4	17.8	37.0	2.84	DOL SL/ANHY SL/V
36	4258.0-59.0	34.	27.	15.4	23.4	38.6	2.83	DOL SL/ANHY VF
37	4259.0-60.0	32.	30.	21.1	30.8	32.1	2.86	DOL SL/ANHY PP
CORE NO. 2 4262.0-4307.0 CUT 45' RED 48'								
38	4260.0-61.0	31.	26.	19.8	40.7	23.6	2.80	DOL SL/ANHY SL/V FOSS
39	4261.0-62.0	11.	10.	16.9	41.4	21.2	2.72	DOL SL/ANHY SL/V FOSS
40	4262.0-63.0	3.1	2.8	16.3	32.1	31.2	2.71	DOL SL/ANHY SL/V FOSS
41	4263.0-64.0	2.7	2.6	16.7	26.1	35.5	2.77	DOL SL/ANHY SL/V FOSS
42	4264.0-65.0	0.78	0.68	14.1	27.0	32.6	2.77	DOL SL/ANHY SL/LHY SL/V FOSS
43	4265.0-66.0	0.02		2.6	22.2	74.1	2.77	DOL SL/ANHY SL/LHY VF V FOSS
44	4266.0-67.0	0.27	<0.01	1.4	25.0	62.5	2.75	DOL SL/ANHY SL/LHY PP
45	4267.0-68.0	0.69	0.33	1.6	24.0	76.0	2.78	DOL SL/ANHY SL/SHY VF PP
46	4268.0-69.0	0.66	0.11	1.2	8.0	88.0	2.76	DOL SL/ANHY SL/LHY SL/V SL/F
47	4269.0-70.0	0.64	<0.01	2.2	3.5	94.7	2.69	LH SL/DOLC SL/SHY VF FOSS ST
48	4270.0-71.0	0.32	<0.01	1.0	9.5	76.2	2.74	LH SL/SHY PP SHLHY FOSS

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

COASTAL OIL & GAS CORPORATION
 GONZALES FEDERAL "21" NO. 7

DATE : 4-2-81
 FORMATION : SAN ANDRES

FULL DIAMETER ANALYSIS

FILE NO : 3202-1225
 ANALYSTS : REINHHEIMER

SAMPLE NUMBER	DEPTH FEET	PERM MAXIMUM	PERM 90 DEG	HE FOR	OILZ PORE	WTRZ PORE	GRAIN DEN	DESCRIPTION
49	4271.0-72.0	0.03	0.03	1.6	8.3	66.7	2.74	LM VF FOSS
50	4272.0-73.0	0.17	<0.01	1.1	3.2	95.2	2.84	LM SL/ANHY VF PP FOSS
51	4273.0-74.0	0.02		6.2	10.3	87.2	2.70	LM VF FOSS
52	4274.0-75.0	0.02		1.9	5.1	92.3	2.74	LM VF FOSS
53	4275.0-76.0	<0.01		0.6	10.5	84.2	2.75	LM VF FOSS
54	4276.0-77.0	0.02		2.0	0.0	92.6	2.75	LM PP FOSS
55	4277.0-78.0	1.0	<0.01	0.7	0.0	80.0	2.70	LM SL/F FOSS
56	4278.0-79.0	0.23	0.23	0.6	0.0	75.0	2.71	LM SL/SHY FOSS
57	4279.0-80.0	0.06		5.7	10.3	87.5	2.70	LM VF STY
58	4280.0-81.0	0.04		5.2	6.9	89.7	2.71	LM VF PP STY
59	4281.0-82.0	0.01		1.3	9.5	85.7	2.70	LM VF PP
60	4282.0-83.0	0.22	0.18	0.7	13.3	80.0	2.70	LM SL/SHY VF PP
61	4283.0-84.0	0.34	0.22	0.8	7.4	81.5	2.70	LM VF FOSS STY
62	4284.0-85.0	0.59	0.35	0.8	8.7	87.0	2.72	LM SL/SHY VF STY
63	4285.0-86.0	0.13	0.13	5.3	5.8	60.9	2.72	LM VF FOSS STY
64	4286.0-87.0	0.07	0.07	8.9	3.1	56.2	2.74	LM SL/SHY PP
65	4287.0-88.0	0.07	0.02	0.6	10.5	84.2	2.73	LM SL/SHY FOSS
66	4288.0-89.0	2.8	2.6	3.1	0.0	95.2	2.78	LM SL/SHY FOSS STY
67	4289.0-90.0	0.03	0.03	4.9	9.3	77.8	2.71	LM SL/SHY VF FOSS
68	4290.0-91.0	0.03	0.03	2.3	8.0	90.0	2.69	LM SL/SHY PP
69	4291.0-92.0	0.11		5.7	1.1	95.4	2.71	DOL SL/ANHY SL/F
70	4292.0-93.0	0.17	0.05	5.8	2.5	96.2	2.79	DOL SL/ANHY SL/SHY PP FOSS
71	4293.0-94.0	0.21	0.06	4.2	1.8	96.3	2.73	DOL SL/ANHY SL/LMY SL/SHY VF
72	4294.0-95.0	0.26	0.11	1.3	0.0	93.7	2.76	DOL SL/ANHY SL/LMY VF PP
73	4295.0-96.0	0.11		7.5	1.9	83.8	2.83	DOL SL/ANHY PP
74	4296.0-97.0	<0.01		0.1	0.0	87.7	2.73	LM FOSS
75	4297.0-98.0	0.32	0.18	1.2	13.3	80.0	2.73	LM SL/ANHY SL/SHY STY
76	4298.0-99.0	0.22		8.9	1.6	97.6	2.81	DOL SL/LMY
77	4299.0-0.0	0.12	0.07	9.9	0.7	59.8	2.84	DOL SL/LMY PP
78	4300.0-1.0	0.11	0.07	7.4	3.5	60.8	2.82	DOL SL/LMY

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 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

COASTAL OIL & GAS CORPORATION
 GONZALES FEDERAL #31 NO. 7

DATE : 4-2-61
 FORMATION : SAN ANDRES

FILE NO : 5202-1225
 ANALYSTS : REINHHEIMER

FULL DIAMETER ANALYSIS

SAMPLE NUMBER	DEPTH FEET	PERM MAXIMUM	PERM 90 DEG	HE FOR	OIL% PORE	WTR% PORE	GRAIN DEN	DESCRIPTION
79	4301.0- 2.0	0.17	0.12	10.6	3.3	58.3	2.84	DOL PP
80	4302.0- 3.0	0.11	0.03	7.5	1.2	65.0	2.84	DOL SL/ANHY SL/LMY FOSS
81	4303.0- 4.0	0.49	0.27	9.9	3.1	68.7	2.84	DOL SL/ANHY SL/LMY FOSS
* 82	4304.0- 5.0	<0.01		0.5	0.0	81.3	2.72	LH SL/DOLC SL/ANHY PP
83	4305.0- 6.0	0.08	0.02	0.3	0.0	83.3	2.73	LH SL/DOLC SL/SHY FOSS
84	4306.0- 7.0	0.11	0.04	0.3	0.0	80.0	2.71	LH SL/DOLC SL/SHY FOSS
85	4307.0- 8.0	0.75	0.20	0.8	0.0	93.4	2.70	LH SL/DOLC SL/SHY VF FOSS

* INDICATES PLUG PERMEABILITY

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.

LAB

Petroleum Reservoir Engineering

CORE LABORATORIES, INC.

COASTAL OIL & GAS CORPORATION
CONZALES FEDERAL "31" NO. 7

FILE NO 3202-12251
DATE 4-2-81

1. **UNIT NO.** 42705R
 2. **WELL NO.** 42705R
 3. **WELL NAME** P. O. Box 235 - Midland, Texas 79701
 4. **WELL TYPE** Oil & Gas
 5. **WELL STATUS** Active
 6. **WELL LOCATION** Section 31, T-9-S, R-33-E
 7. **WELL DEPTH** 42705R
 8. **WELL DIAMETER** 4 1/2" ID

9. **WELL OWNER** U.S. ...
 10. **WELL OPERATOR** ...
 11. **WELL PURPOSE** ...
 12. **WELL HISTORY** ...
 13. **WELL RECORD** ...

14. **WELL DATA** ...
 15. **WELL LOG** ...
 16. **WELL TEST** ...
 17. **WELL PRODUCTION** ...

18. **WELL OPERATIONS** ...
 19. **WELL MAINTENANCE** ...
 20. **WELL REPAIRS** ...
 21. **WELL CLOSURE** ...
 22. **WELL RE-ENTRY** ...
 23. **WELL ABANDONMENT** ...

24. **WELL RECORD** ...
 25. **WELL HISTORY** ...
 26. **WELL DATA** ...
 27. **WELL LOG** ...
 28. **WELL TEST** ...
 29. **WELL PRODUCTION** ...

30. **WELL OPERATIONS** ...
 31. **WELL MAINTENANCE** ...
 32. **WELL REPAIRS** ...
 33. **WELL CLOSURE** ...
 34. **WELL RE-ENTRY** ...
 35. **WELL ABANDONMENT** ...

36. **WELL RECORD** ...
 37. **WELL HISTORY** ...
 38. **WELL DATA** ...
 39. **WELL LOG** ...
 40. **WELL TEST** ...
 41. **WELL PRODUCTION** ...

42. **WELL OPERATIONS** ...
 43. **WELL MAINTENANCE** ...
 44. **WELL REPAIRS** ...
 45. **WELL CLOSURE** ...
 46. **WELL RE-ENTRY** ...
 47. **WELL ABANDONMENT** ...

48. **WELL RECORD** ...
 49. **WELL HISTORY** ...
 50. **WELL DATA** ...
 51. **WELL LOG** ...
 52. **WELL TEST** ...
 53. **WELL PRODUCTION** ...

54. I hereby certify that the foregoing is true and correct
 SIGNED David H. Campbell TITLE: Senior Engineer
 (This space for Federal or State Seal)
 ACCEPTED FOR RECORD
 SIGNED Roger A. Chapman TITLE: ...
 APR 22 1981
 *See instructions on Reverse Side

CRACKY HILLS AND TOWNS ON WELLS

APR 20 1981

San Juan Federal "31"

Sec. 31, T-9-S, R-33-E

12. COUNTY OR PARISH 13. STATE
Lea New Mexico

15. ELEVATIONS (SHOW ELEVATION OF, WT. CR. ETC.)

4270CR

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

TEST OR RE-TEST OF	DEEP OR DEEPER CASING	WATER SHUT-OFF	DRILLING WELL
FRACTURE TREAT	MILLING COMPLETE	FRACTURE TREATMENT	ALTERING CASING
SPOODING ACTIVE	REVISION*	SPROUTING OR ADDING	ABANDONMENT*
CHANGE PLANS		(Other) setting casing	

17. (If well is directionally drilled, give subsurface headings and bearings and data needed for all surface and subsurface locations of the well.)

BBL Drilling spudded 12:00 Noon 3-16-81.
Ran 41 joints (1705') 3-5/8" 24# casing, set @ 1716'. Cemented with 500 sx Halliburton Lite w/8# salt & 1/4# cello flakes followed by 200 sx Class "C" w/2% CaCl. PD 2:00 PM 3-20-81. Cement was circulated.

Core No. 1 - 4218' to 4263'
Core No. 2 - 4263' to 4307'

Ran 105 joints (4304') 5-1/2" 15.5# casing, set @ 4311'. Cemented with 1600 sx. BJ Lite w/10# salt, 1/4# cello flakes followed by 200 sx Class "C" w/8# salt, 5# gilsonite, 1/4# cello flakes. PD 4:45 AM 4-4-81. Cement was circulated. Ready for completion.

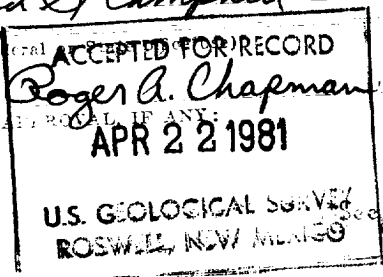
18. I hereby certify that the foregoing is true and correct

SIGNED *David J Campbell*

TITLE Senior Engineer

DATE 4-16-81

APPROVED BY *Roger A. Chapman*
CONDITIONS OF APPROVAL, IF ANY:
APR 22 1981



See Instructions on Reverse Side