

COASTAL OIL & GAS CORPORATION

BAUM STATE "8" NO. 3

BAUM FIELD

LEA COUNTY, NEW MEXICO

CORE LABORATORIES, INC.



October 25, 1982

COASTAL OIL & GAS CORPORATION
P.O. Box 235
Midland, Texas 79702

File : 3202-13135
Subject: Core Analysis
Baum State "8" No. 3
Baum Field
Lea County, New Mexico

Gentlemen:

The subject well was cored using diamond coring equipment and fresh water to obtain 4 inch diameter cores from 9833 to 9867 feet from the Bough "B" formation.

Core analysis data is presented in tabular and graphical form for your convenience. 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.

A handwritten signature in black ink, reading "Jack H. Neff". The signature is written in a cursive, flowing style.

Jack H. Neff
Laboratory Manager

JHN/do/yn

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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.

Core analysis was made from intervals requested on full diameter samples.

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

Gas expansion porosity and grain density were determined using Boyle's Law.

Air permeability was measured in two horizontal directions while the core was held in a Hassler rubber sleeve.

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

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

CORE ANALYSIS REPORT

FOR

COASTAL OIL & GAS CORPORATION

BAUM STATE "8" NO. 3
BAUM FIELD
LEA COUNTY, NEW MEXICO

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering

COASTAL OIL & GAS CORPORATION
 BAUM STATE "8" NO. 3
 BAUM FIELD
 LEA COUNTY, NEW MEXICO

DALLAS, TEXAS

DATE : 10-17-82
 FORMATION : BOUGH "B"
 DRUG. FLUID: FRESH WATER
 LOCATION : 1980' FNL & 660' FWL, SEC. 8, T-14-S, R-33-E

FILE NO : 3202-13135
 ANALYSTS : DEVIER
 LABORATORY: MIDLAND TEXAS

FULL DIAMETER ANALYSIS

SAMPLE NUMBER	DEPTH FEET	PERM(Ka) MAXIMUM	PERM(Ka) 90 DEG	HE POR	OIL% PORE	WTR% PORE	GRAIN DEN	DESCRIPTION
CORE NO. 1 9833.0-9873.0 CUT 40' REC 34'								
* 1	9833.0-34.0	0.07		2.5	0.0	68.3	2.73	CHT SL/LMY VF STY
2	9834.0-35.0	<0.01	<0.01	0.4	0.0	50.0	2.65	LM CHTY SL/F FOSS STY
3	9835.0-36.0	<0.01	<0.01	0.4	0.0	80.0	2.71	LM FOSS STY
4	9836.0-37.0	0.04	<0.01	0.6	0.0	71.4	2.71	LM VF FOSS STY
5	9837.0-38.0	0.03	<0.01	0.4	0.0	60.0	2.71	LM VF FOSS STY
6	9838.0-39.0	0.03	<0.01	0.5	0.0	85.7	2.70	LM VF FOSS STY
7	9839.0-40.0	0.04	<0.01	0.3	0.0	80.0	2.72	LM VF FOSS STY
8	9840.0-41.0	0.02	<0.01	0.6	0.0	87.5	2.71	LM VF FOSS STY
9	9841.0-42.0	0.04	<0.01	1.2	0.0	71.3	2.71	LM SL/CHTY VF STY
10	9842.0-43.0	0.10	0.04	0.8	0.0	80.1	2.71	LM VF FOSS STY
11	9843.0-44.0	<0.01	<0.01	0.6	0.0	80.0	2.70	LM FOSS OOL STY
12	9844.0-45.0	0.01	<0.01	0.9	0.0	87.5	2.66	LM V/CHTY VF PP FOSS STY
13	9845.0-46.0	<0.01	<0.01	0.6	0.0	75.0	2.70	LM VF FOSS STY
14	9846.0-47.0	<0.01	<0.01	0.4	0.0	83.3	2.71	LM VF FOSS STY
15	9847.0-48.0	0.02	0.02	0.8	0.0	66.7	2.71	LM VF FOSS STY
16	9848.0-49.0	<0.01	<0.01	0.6	0.0	83.3	2.70	LM VF OOL STY
17	9849.0-50.0	<0.01	<0.01	0.7	0.0	87.5	2.71	LM VF OOL STY
18	9850.0-51.0	0.03	<0.01	0.8	0.0	63.6	2.71	LM VF OOL STY
19	9851.0-52.0	0.01	0.01	0.8	0.0	87.5	2.71	LM OOL STY
20	9852.0-53.0	<0.01	<0.01	0.7	0.0	83.8	2.71	LM FOSS OOL STY
21	9853.0-54.0	0.01	<0.01	1.0	0.0	83.3	2.72	LM SL/SHY FOSS STY
22	9854.0-56.0							NA SH LAM
23	9856.0-57.0	0.01	<0.01	1.0	0.0	85.7	2.70	LM SHY OOL STY
	9857.0-58.0	0.02	0.01	1.1	0.0	92.3	2.71	LM SL/SHY FOSS STY

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Petroleum Reservoir Engineering
DALLAS, TEXAS

COASTAL OIL & GAS CORPORATION DATE : 10-17-82 FILE NO : 3202-13135
BAUM STATE "8" NO. 3 FORMATION : BOUGH "B" ANALYSTS : DEVIER

FULL DIAMETER ANALYSIS

SAMPLE NUMBER	DEPTH FEET	PERM(K _a) MAXIMUM	PERM(K _a) 90 DEG	HE POR	OIL% PORE	WTR% PORE	GRAIN DEN	DESCRIPTION
24	9858.0-59.0	<0.01	<0.01	0.6	0.0	83.3	2.70	LM FOSS STY
25	9859.0-60.0	<0.01	<0.01	0.6	0.0	75.0	2.71	LM STY
26	9860.0-61.0	0.02	<0.01	1.2	0.0	92.3	2.71	LM SHY SHLAM FOSS
27	9861.0-62.0	0.02	<0.01	0.8	0.0	83.3	2.71	LM SL/SHY F SHLAM FOSS
28	9862.0-63.0	0.01	<0.01	1.8	0.0	72.4	2.72	LM SHY SHLAM
	9863.0-66.0							NA SH
29	9866.0-67.0	0.03	<0.01	1.2	0.0	75.7	2.71	LM SL/SHY VF SHLAM
	9867.0-73.0							LOST CORE

* INDICATES PLUG PERMEABILITY

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LITHOLOGICAL ABBREVIATIONS

ANH(Y)	ANHYDRITE, ANHYDRITIC	LM(Y)	LIMESTONE, LIMY
ARK	ARKOSE, ARKOSIC	MG	MEDIUM GRAINED
BAN	BAND, BANDED	MTX	MATRIX
BREC	BRECCIA, BRECCIATED	NA	INTERVAL NOT ANALYZED (AT REQUEST OF CLIENT)
CALC	CALCITE, CALCAREOUS	NOD	NODULE, NODULAR
CARB	CARBONACEOUS	OOL	OOLITIC
CG	COARSE GRAINED	PISO	PISOLITIC
CHK(Y)	CHALK, CHALKY	PP	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)	SILT, SILTY
FOSS	FOSSILIFEROUS	STY	STYLOLITE, STYLOLITIC
FR	FRIABLE	SUC	SUCROSCIC
FXLN	FINELY CRYSTALLINE	SUL	SULPHUR
GAL	GALENA	TBFA	TOO BROKEN FOR ANALYSIS
GLAUC	GLAUCONITE, GLAUCONITIC	TRIP	TRIPOLITE
GRAN	GRANITE	V/	VERY
GYP	GYPSUM, GYPSIFEROUS	VF	PREDOMINANTLY VERTICALLY FRACTURED
HF	PREDOMINANTLY HORIZONTALLY FRACTURED	V	VUGULAR
INC	INCLUSION	XBD	CROSSBEDDED
INTBD	INTERBEDDED	XLN	MEDIUM CRYSTALLINE
LAM	LAMINATED	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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