

CORE LABORATORIES, INC.
 Petroleum Reservoir Engineering
 DALLAS, TEXAS

Page No. 1**CORE ANALYSIS RESULTS**

Company EL PASO NATURAL GAS COMPANY Formation DAKOTA File RP-3-1263
 Well SAN JUAN UNIT 29-6 # 35 Core Type DIAMOND CONV. Date Report 9-10-60
 Field BLANCO Drilling Fluid OIL EMULSION MUD Analysts HUFF
 County RIO ARriba State NEW MEX Elev. 6440 GR Location SEC 15 T29N R6W

Lithological Abbreviations

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 - FNE MEDIUM - MED COARSE - COSE	CRYSTALLINE - XLN GRAIN - GRN GRANULAR - GRNL	BROWN - BRN GRAY - GY VUGGY - VGY	FRACTURED - FRAC LAMINATION - LAM STYLOLITIC - STY	SLIGHTLY - SL/ VERY - V/ WITH - W/
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SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCY	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER	
1	7686-87	0.03	4.0	0.0	30.1	
2	87-88	0.02	6.8	7.4	23.5	
3	88-89	0.05	8.6	5.8	20.9	
4	89-90	0.05	9.4	2.1	25.5	
5	90-91	0.05	9.9	0.0	29.3	
6	91-92	0.03	9.3	0.0	29.1	
7	92-93	0.05	9.9	2.0	27.3	
8	93-94	0.03	9.5	2.1	31.6	
9	94-95	0.06	9.7	5.1	28.8	
10	95-96	0.05	8.1	0.0	29.7	
11	96-97	0.01	8.1	2.5	27.2	VERTICAL FRACTURE
12	97-98	0.02	7.2	0.0	38.8	
13	98-99	0.02	3.4	5.9	53.0	VERTICAL FRACTURE
14	99-7700	<0.01	2.5	0.0	76.0	
15	7700-01	0.02	2.8	0.0	82.1	VERTICAL FRACTURE
16	01-02	<0.01	3.8	13.2	71.0	
17	02-03	0.01	2.6	7.7	80.8	VERTICAL FRACTURE
18	03-04	0.01	2.8	0.0	92.9	
19	04-05	<0.01	3.3	0.0	94.0	VERTICAL FRACTURE
20	05-06	<0.01	4.6	0.0	93.5	
21	06-07	<0.01	4.8	4.2	93.7	VERTICAL FRACTURE
22	07-08	<0.01	4.2	4.8	93.0	
23	08-09	<0.01	3.8	0.0	97.5	VERTICAL FRACTURE
24	09-10	<0.01	3.0	0.0	96.6	
25	10-11	<0.01	3.8	5.3	92.1	VERTICAL FRACTURE
26	11-12	<0.01	3.3	0.0	97.0	
27	12-13	<0.01	2.3	8.2	87.0	VERTICAL FRACTURE
28	13-14	<0.01	2.0	0.0	95.0	
29	7715-16	<0.01	2.7	0.0	96.4	VERTICAL FRACTURE
30	7718-19	<0.01	4.1	0.0	97.6	
31	7730-31	<0.01	1.2	0.0	91.8	VERTICAL FRACTURE
32	31-32	0.02	1.5	0.0	66.7	
33	32-33	<0.01	1.0	0.0	90.0	VERTICAL FRACTURE
34	33-34	<0.01	0.7	0.0	85.8	
35	34-35	0.02	2.0	0.0	50.0	VERTICAL FRACTURE
36	35-36	<0.01	1.0	0.0	90.0	

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Company EL PASO NATURAL GAS COMPANY Formation DAKOTA File RP-3-1263
Well SAN JUAN UNIT 29-6 # 35 Core Type DIAMOND CONV. Date Report 9-10-60
Field BLANCO Drilling Fluid OIL EMULSION MUD Analysts HUFF
County RIO ARriba State NEW MEX. Elev. 6440 GR Location SEC 15 T29N R6W

Lithological Abbreviations

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 - FN MEDIUM - MED COARSE - CSE	CRYSTALLINE - XLN GRAIN - GRN 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 MILLIDARCY	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS		
				OIL	TOTAL WATER			

7686-7687 This interval is non-productive

7687-7698 This interval has fair porosity (8.8 % average) and saturations within the limitations of gas production; Total Water 28.3 % average and Residual Oil 2.5 % average. The permeability is low (0.04 md/ft average) and it will be necessary to have a favorable treatment in order to have economical production.

7698-7736 This interval is non-productive

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 Field BLANCO Drilling Fluid OIL EMULSION MUD Analysts HUFF
 County RIO ARriba State NEW MEX Elev. 6440 Gr Location SEC 15 T29N R6W

Lithological Abbreviations

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 - FFI MEDIUM - MED COARSE - CSE	CRYSTALLINE - XLN GRAIN - GRN GRANULAR - GRNL	BROWN - BRN GRAY - GY VUGGY - VGY	FRACTURED - FRAC LAMINATION - LAM STYLOLITIC - STY	SLIGHTLY - SL/ VERY - V/ WITH - W/
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SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCY	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS			
				OIL	TOTAL WATER				
37	7741-42	0.01	3.1	0.0	45.1	VERTICAL FRACTURE			
38	42-43	0.01	3.0	0.0	46.7	"	"	"	"
39	43-44	0.01	0.7	0.0	85.6	"	"	"	"
40	44-45	0.01	1.7	0.0	70.6	"	"	"	"
41	45-46	0.01	1.2	0.0	83.5	"	"	"	"
42	46-47	0.01	2.7	0.0	96.5	"	"	"	"
43	47-48	0.01	3.8	0.0	97.4	"	"	"	"
44	7750-51	0.01	2.4	0.0	95.9	"	"	"	"
45	51-52	0.01	0.9	0.0	89.4	"	"	"	"
46	52-53	0.01	1.5	0.0	93.4	"	"	"	"
47	53-54	0.01	2.0	0.0	30.0	"	"	"	"
48	7756-57	0.03	1.2	0.0	83.4	"	"	"	"
49	57-58	0.13	1.1	0.0	91.0	"	"	"	"
50	58-59	0.63	2.2	0.0	95.7	"	"	"	"
51	59-60	0.01	1.9	0.0	84.4	"	"	"	"
52	60-61	0.02	1.4	0.0	92.8	"	"	"	"
53	61-62	0.01	0.7	0.0	85.6	"	"	"	"
54	62-63	0.01	2.0	0.0	95.0	"	"	"	"
55	63-64	0.01	0.9	0.0	88.9	"	"	"	"

7741-7764 This interval is essentially non-productive.

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 Field BLANCO Drilling Fluid OIL EMULSION MUD Analysts ENGLISH
 County RIO ARriba State N.MEX. Elev. 6440 Gr. Location SEC15 T29N R6W

Lithological Abbreviations

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 - FN MEDIUM - MED COARSE - CSE	CRYSTALLINE - XLN GRAIN - GRN GRANULAR - GRNL	BROWN - BRN GRAY - GY VUGGY - VGY	FRACTURED - FRAC LAMINATION - LAM STYLOLITIC - STY	SLIGHTLY - SL/ VERY - V/ WITH - W/
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SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCY	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS	
				OIL	TOTAL WATER		
56	7766-67	<0.01	1.5	0.0	80.0		
57	7768-69	0.05	3.6	13.9	78.1	Vertical Fracture	
58	7770-71	<0.01	2.5	8.0	87.9	"	"
59	7772-73	<0.01	2.2	9.1	86.4	"	"
60	73-74	<0.01	0.7	0.0	28.6	"	"
61	74-75	<0.01	1.4	0.0	28.5	"	"
62	7776-77	<0.01	0.9	0.0	88.9	"	"

7766-7777 The samples analyzed within this interval have the properties of non-productive sandstone. There is evidence of vertical fractures, which may be the reservoir and the means of passage to the well bore for fluids within the fractures. Further testing should be done to evaluate the fracture system.

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 Well SAN JUAN UNIT 29-6 # 35 Core Type DIAMOND CONV. Date Report 9/17/60
 Field BLANCO Drilling Fluid OIL EMULSION MUD Analysts ENGLISH
 County RIO ARriba State N.MEXICO Elev. 6440 Gr. Location SEC15 T29N R6W

Lithological Abbreviations

SAND - SD	DOLOMITE - DOL	ANHYDRITE - ANHY	SANDY - SDY	FINE - FN	CRYSTALLINE - XLN	BROWN - BRN	FRACTURED - FRAC	SLIGHTLY - SL/
SHALE - SH	CHERT - CH	CONGLOMERATE - CONG	SHALY - SHY	MEDIUM - MED	GRAIN - GRN	GRAY - GY	LAMINATION - LAM	VERY - V/
LIME - LM	GYP SUM - GYP	FOSSILIFEROUS - FOSS	LIMY - LMY	COARSE - CSE	GRANULAR - GRNL	VUGGY - VGY	STYLOLITIC - STY	WITH - W/

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCY S	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER	
63	7777-78	0.07	2.8	0.0	28.5	Vertical Fracture
64	78-79	0.06	5.2	0.0	23.1	" "
65	79-80	0.06	3.1	0.0	45.1	" "
66	80-81	0.04	6.9	0.0	8.7	" "
67	81-82	<0.01	1.6	0.0	75.1	" "
68	82-83	<0.01	1.0	0.0	80.0	" "
69	83-84	<0.01	1.5	0.0	93.3	" "
70	84-85	0.02	2.5	0.0	40.0	" "
71	85-86	0.02	5.1	0.0	23.6	" "
72	86-87	0.05	4.5	0.0	31.1	" "
73	87-88	<0.01	3.4	0.0	58.9	" "
74	88-89	<0.01	2.9	0.0	27.6	" "
75	89-90	<0.01	2.7	0.0	44.5	" "
76	90-91	0.01	2.1	0.0	76.2	" "
77	7808-09	<0.01	0.8	0.0	50.0	" "
78	7813-14	<0.01	0.7	0.0	85.7	" "
79	7818-19	<0.01	5.6	0.0	93.0	" "
80	7823-24	<0.01	4.5	0.0	95.6	" "

7777-7781 This interval has low porosity (4.5% average) and low permeability (0.06 md./ft. average) . The saturations (residual oil 0.0% average and total water 26.3% average) show the interval to be gas-productive . A formation treatment will depend upon the effectiveness of the vertical fracture system .

7781-7785 This interval is essentially non-productive .

7785-7787 This interval has low porosity (4.8% average) and low permeability (0.03 md./ft. average) . The saturations (residual oil 0.0% average and total water 27.3% average) show this interval to be capable of producing gas . A formation treatment will depend upon the effectiveness of the fracture system .

7787-7824 The samples analyzed within this interval have the properties of non-productive sandstone .