

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

Page No. 1**CORE ANALYSIS RESULTS**

Company EL PASO NATURAL GAS COMPANY Formation GRANEROS File HP-3-1434
Well RINCON UNIT # 159 Core Type DIAMOND CONV. Date Report 5/10/61
Field BASIN DAKOTA Drilling Fluid OIL EMULSION MUD Analysts MCCOMAS
County RIO ARriba State NEW MEX. Elev. 6618 GR Location SEC 18 T27N R6W

Lithological Abbreviations

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCY	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER	
1	7444-45	<0.01	1.8	0.0	83.2	
2	45-46	0.72	3.5	14.2	82.9	
3	46-47	0.21	4.4	11.3	79.6	
4	47-48	0.03	3.4	5.9	85.3	
5	48-49	<0.01	4.1	4.9	90.5	
6	49-50	0.06	5.6	3.6	85.6	
7	50-51	0.09	4.5	4.5	82.5	
8	51-52	0.08	3.3	15.1	76.0	
9	52-53	<0.01	4.1	12.2	80.5	
10	53-54	<0.01	4.2	4.8	90.5	VERTICAL FRACTURE
11	54-55	0.01	4.9	14.3	71.6	" "
12	55-56	<0.01	3.9	17.9	51.2	
13	56-57	0.01	4.6	15.2	52.2	
14	57-58	<0.01	5.0	18.0	44.0	
15	58-59	0.01	5.1	17.6	47.0	
16	59-60	<0.01	5.4	16.6	35.2	
17	60-61	<0.01	5.2	17.3	44.2	
18	61-62	0.01	5.0	14.0	50.0	
19	62-63	0.02	3.5	20.0	68.6	
20	63-64	<0.01	3.6	19.4	75.0	VERTICAL FRACTURE
21	64-65	<0.01	3.2	6.3	75.0	" "
22	65-66	<0.01	3.6	13.9	66.7	
23	66-67	0.01	2.7	25.9	59.4	VERTICAL FRACTURE
24	67-68	<0.01	6.8	13.2	11.7	" "
25	68-69	0.01	5.0	14.0	42.0	" "
26	69-70	0.02	5.4	12.9	22.2	
27	70-71	<0.01	4.4	15.9	40.9	
28	71-72	<0.01	4.0	12.5	55.0	
29	72-73	0.52	4.3	11.6	51.2	
30	73-74	<0.01	4.2	16.7	52.3	VERTICAL FRACTURE
31	74-75	0.01	4.0	17.5	45.0	" "
32	75-76	<0.01	6.3	7.9	6.4	
33	76-77	<0.01	7.1	9.9	26.7	
34	77-78	<0.01	7.0	8.6	18.6	
35	78-79	0.01	3.9	17.9	46.1	
36	79-80	<0.01	2.9	17.2	62.1	
37	80-81	0.02	2.4	20.8	58.4	
38	81-82	<0.01	4.9	10.4	75.5	VERTICAL FRACTURE
39	82-83	<0.01	5.0	10.0	78.0	

7444-7483 Low porosity and permeability show that this interval is essentially non-productive.

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Petroleum Reservoir Engineering
DALLAS, TEXAS

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CORE ANALYSIS RESULTS

Company	EL PASO NATURAL GAS COMPANY	Formation	GRANEROS	File	RP-3-1434
Well	RINCON UNIT # 159	Core Type	DIAMOND CONV.	Date Report	5/11/61
Field	BASIN DAKOTA	Drilling Fluid	OIL EMULSION MUD	Analysts	MCCOMAS
County	RIO ARriba	State	NEW MEX.	Elev.	6612 GR Location SEC 18 T27N R6W

Lithological Abbreviations

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYs	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER	
40	7484-85	0.02	1.7	20.4	59.0	VERTICAL FRACTURE
41	85-86	0.01	2.8	25.0	64.5	" "
42	86-87	0.01	2.9	24.1	71.6	
43	87-88	0.01	3.1	16.1	81.6	
44	88-89	0.07	3.3	15.1	81.9	
45	89-90	0.01	2.6	7.7	83.6	
46	90-91	0.01	2.4	14.7	79.5	
47	91-92	0.01	2.9	17.3	72.5	
48	92-93	0.06	3.0	23.2	70.0	VERTICAL FRACTURE
49	93-94	0.01	3.5	25.8	60.0	
50	94-95	0.01	3.3	21.3	63.6	VERTICAL FRACTURE
51	95-96	0.01	2.8	17.9	82.6	
52	96-97	0.01	2.4	0.0	96.0	
53	97-98	0.01	2.8	0.0	96.5	
54	98-99	0.01	2.4	0.0	96.2	VERTICAL FRACTURE
55	99-7500	0.01	2.4	0.0	96.2	
56	7500-01	0.01	1.8	0.0	94.6	
57	01-02	0.01	3.1	0.0	96.8	VERTICAL FRACTURE
58	02-03	0.01	3.2	6.0	87.3	
59	03-04	0.01	3.2	6.0	90.6	VERTICAL FRACTURE
60	04-05	0.01	2.2	0.0	95.6	" "
61	05-06	0.01	3.0	0.0	93.6	" "
62	06-07	0.01	2.9	0.0	96.6	
63	07-08	0.01	2.6	0.0	96.2	
64	08-09	0.01	3.1	0.0	90.5	
65	09-10	0.01	3.3	6.0	88.4	VERTICAL FRACTURE
66	10-11	0.01	4.2	11.9	78.5	
67	11-12	0.01	3.4	0.0	97.1	

7484-7512 This interval is essentially non-productive.

These analyses were made on the core samples as received from the well. The analyses were made on the core samples as received from the well.

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Petroleum Reservoir Engineering
 DALLAS, TEXAS

Page No. **3****CORE ANALYSIS RESULTS**

Company **EL PASO NATURAL GAS COMPANY** Formation **DAKOTA** File **RF-3-1434**
 Well **RINCON UNIT # 159** Core Type **DIAMOND CONV.** Date Report **5/12/61**
 Field **BASIN DAKOTA** Drilling Fluid **OIL EMULSION MUD** Analyst **MCCOMAS**
 County **RIO ARriba** State **NEW MEX.** Elev **6618 GR** Location **SEC 18 T27N R6W**

Lithological Abbreviations

SAND, SD SHALE, SH LIME, LM	DOLOMITE, D CHERT, CH GYPSUM, G	ANHYDRITE, ANHY CONGLOMERATE, CON FOSSILIFEROUS, FOSS	CLAY, CL SILT, SILT MUD, MUD	SAND, SN RED, RED OIL, OIL	CLAY, CLAY GREEN, GRN GRANITE, GRN	BROWN, BKN GRAY, GRY VUGGY, VGY	FACTURED, FAC LAMINATION, LAM SYNCLINICAL, SYN	SLIGHTLY, SL/ VERY, V/ WITH, W/
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SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCY	POROSITY PER CENT	RESIDUAL SATURATION PER CENT POPE		SAMPLE DESCRIPTION AND REMARKS
				ON	TOTAL WATER	
68	7540-41	0.01	4.2	4.8	83.5	
69	7542-43	0.07	2.9	0.0	86.3	
70	7544-45	<0.01	3.5	0.0	88.5	
71	7546-47	0.01	4.4	0.0	91.0	
72	7550-51	<0.01	2.2	0.0	95.5	
73	7553-54	<0.01	3.0	6.7	90.0	
74	7555-56	0.01	3.2	6.3	90.6	VERTICAL FRACTURE
75	56-57	0.01	3.0	0.0	90.0	" "
76	57-58	<0.01	2.8	0.0	96.5	" "
77	58-59	<0.01	1.8	0.0	94.5	" "
78	59-60	<0.01	2.7	0.0	96.3	" "
79	60-61	<0.01	3.3	6.1	91.0	
80	7572-73	<0.01	3.7	0.0	59.4	
81	73-74	0.07	10.0	0.0	19.0	
82	74-75	0.27	10.3	0.0	22.3	
83	75-76	0.07	11.1	0.0	23.4	
84	76-77	0.05	9.5	0.0	24.2	
85	77-78	0.06	8.7	0.0	23.8	
86	78-79	0.04	10.9	0.0	23.0	
87	79-80	0.32	9.2	0.0	31.5	
88	80-81	0.05	8.3	0.0	35.0	
89	81-82	<0.01	5.7	0.0	50.9	
90	82-83	<0.01	5.3	0.0	51.0	
91	83-84	<0.01	5.8	0.0	46.6	
92	84-85	0.01	4.6	0.0	58.7	
93	85-86	<0.01	5.0	0.0	66.0	
94	86-87	0.01	4.5	0.0	71.1	
95	87-88	<0.01	4.5	0.0	69.0	

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CORE ANALYSIS RESULTS

Company EL PASO NATURAL GAS COMPANY Formation DAKOTA File RP-3-1434
Well RINCON UNIT # 159 Core Type DIAMOND CONV. Date Report 5/12/61
Field BASIN DAKOTA Drilling Fluid OIL EMULSION MUD Analysts McCOMAS
County RIO ARriba State NEW MEX Elev 6613 IR Location SEC 18 T27N R6W

Lithological Abbreviations

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYs	POROSITY PER CENT	RES DUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER	
96	7587-88	0.07	5.4	0.0	66.7	
97	88-89	0.03	4.8	0.0	79.2	
98	89-90	<0.01	4.3	0.0	76.8	
99	90-91	<0.01	4.0	0.0	84.9	
100	91-92	<0.01	3.9	0.0	87.1	
101	92-93	<0.01	3.9	0.0	83.0	
102	93-94	<0.01	3.9	0.0	84.5	
103	94-95	0.01	3.4	0.0	90.9	
104	95-96	<0.01	3.5	0.0	88.2	
105	96-97	<0.01	4.7	0.0	98.0	
106	97-98	<0.01	2.6	0.0	96.5	
107	7599-7600	<0.01	1.2	0.0	91.9	
108	7605-06	0.07	3.7	0.0	83.5	
109	06-07	0.05	4.6	0.0	71.8	
110	07-08	0.01	2.9	0.0	55.2	
111	08-09	0.10	4.8	0.0	33.2	
112	09-10	0.06	5.3	0.0	47.0	
113	10-11	0.05	4.2	16.6	78.5	