

CORE LABORATORIES, INC.
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 5/10/61
Field BASIN DAKOTA Drilling Fluid OIL EMULSION MUD Analysts MCCOMAS
County BIO ARKIBA State NEW MEX. Elev. 6618 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	
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	

CORE ANALYSIS RESULTS

Company **EL PASO NATURAL GAS COMPANY** Formation **GRANEROS** File **RP-2-1434**
Well **RINCON UNIT # 159** Core Type **DIAMOND CONV.** Date Report **5/11/61**
Field **BASIN DAKOTA** Drilling Fluid **OIL EMULSION MUD** Analysts **McCOMAS**
County **PIO ARriba** State **NEW MEX.** Elev **6612 GR** Location **SEC 18 T27N R6W**

Lithological Abbreviations

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCY	POROSITY PERCENT	RESIDUAL SATURATION PERCENT PORE		SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER	
40	7484-85	0.02	1.7	29.4	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	87.9	
45	89-90	<0.01	2.6	7.7	88.6	
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.

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DALLAS, TEXAS

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CORE ANALYSIS RESULTS

Company EL PASO NATURAL GAS COMPANY Formation DAKOTA File RP-2-1434
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. 6618 GR Location SEC 18 T27N R6W

Lithological Abbreviations

SAND, SD
SHALE, SH
LIME, LM
DOLOMITE, DO
CHERT, CH
GYPSUM, GYP
ANHYDRITE, ANHY
CONGLOMERATE, CONG
FOSSILIFEROUS, FOSS
SALT, SH
MUD, MUD
FINE, FN
MED, MED
COARSE, CS
GR, STALLINE, XEN
GRN, GRN
GRANULAR, GRNL
BROWN, BN
GRAY, GR
VUGGY, VGY
FRACTURED, FRAC
LAMINATION, LAM
STYLOLITIC, STYL
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	
68	7540-41	0.01	4.2	7.8	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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