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Company	EL PASO NATURAL GAS COMPANY	Formation	GRANEROS	File	RP-3-1425
Well	NEENE #3	Core Type	DIAMOND CONV.	Date Report	4/23/61
Field	SOUTH DAKOTA	Drilling Fluid	WATER BASE MUD	Analysts	McCOMAS
County	SAN JUAN	State	NEW MEX.	Elev.	6556 GR
		Location	SEC 24 T32N R12W		

SAND-SD	DOLOMITE-DOL	ANHYDRATE-ANHY	SANDY-SDY	FINE-FN	CRYSTALLINE-KLN	BROWN-BRN	FRACTURED-FRAC	SLIGHTLY-SL
SHALE-SH	CHERT-CH	CONGLOMERATE-CONG	SHALY-SHY	MEDIUM-MED	GRAIN-GRN	GRAY-GY	LAMINATION-LAM	VERY-V
LOESS-LX	GYPHUM-GYP	FOSSILIFEROUS-FOSS	LIMY-LMY	COARSE-CSE	GRANULAR-GRNL	VUGGY-VGY	STYLITIC-STY	WITH-W

~~7585-7612~~ This interval is essentially non-productive.

CORE ANALYSIS RESULTS

Company EL PASO NATURAL GAS COMPANY Formation DAKOTA File KP-3-1425
 Well MOORE # 8 Core Type DIAMOND CONV. Date Report 4/26/61
 Field BASIN DAKOTA Drilling Fluid WATER BASE MUD Analysts McComas
 County SAN JUAN State NEW MEX. Elev. 6556 GR Location SEC 24 T32N R12W

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 - GR	LAMINATION - LAM	VERY - V/
LIME - LM	GYPHUM - GYP	FOSSILIFEROUS - FOSS	LIMY - LMY	COARSE - CSE	GRANULAR - GRNL	VUGGY - VGY	STYLOLITIC - STY	WITH - W/

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCY	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER	
15	7663-64	0.01	2.4	0.0	75.0	VERTICAL FRACTURE
16	64-65	0.03	5.2	0.0	30.6	" "
17	65-66	0.41	7.4	0.0	32.3	" "
18	66-67	0.10	6.6	0.0	69.5	" "
19	67-68	0.04	4.0	0.0	40.0	" "
20	68-69	0.26	2.5	0.0	48.1	" "
21	69-70	0.07	2.8	0.0	75.4 <	" "
22	70-71	0.03	4.0	0.0	60.0	" "
23	71-72	0.05	2.5	0.0	47.0	" "
24	72-73	0.48	2.8	0.0	42.9	" "
25	73-74	0.01	2.7	0.0	74.2	" "
26	74-75	0.01	1.9	0.0	63.2	" "
27	75-76	0.07	2.8	0.0	71.6	" "
28	76-77	0.03	4.0	0.0	40.0	" "

7663-77 Low porosity and permeability show that this interval is essentially non-productive. However, since this entire interval is highly fractured, it is possible that there is gas within the fracture system.

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

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CORE ANALYSIS RESULTS

Company EL PASO NATURAL GAS COMPANY Formation DAKOTA File RP-3-1425
Well MOORE # 8 Core Type DIAMOND CONV. Date Report 4/27/61
Field BASIN DAKOTA Drilling Fluid WATER BASE MUD Analysts McCOMAS
County SAN JUAN State NEW MEX. Elev. 6556 GR Location SEC 24 T32N R12W

Lithological Abbreviations

SAND - SD SHALE - SH LINE - LM	DOLOMITE - DOL CHEST - CH GYPSUM - GYP	ANHYDRITE - ANHY CONGLOMERATE - CONG FOSSILIFEROUS - FOSS	SANDY - SOY 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			

29	7678-79	<0.01	1.3	0.0	84.7	VERTICAL FRACTURE		
30	79-80	0.09	1.7	0.0	88.4	"	"	"
31	80-81	0.01	3.2	0.0	84.0	"	"	"
32	81-82	0.11	2.2	0.0	64.0	"	"	"
33	82-83	0.17	2.5	0.0	80.0	"	"	"
34	83-84	0.08	3.3	0.0	81.5	"	"	"
35	84-85	0.01	2.4	0.0	87.6	"	"	"
36	85-86	0.02	2.3	0.0	82.7	"	"	"
37	86-87	<0.01	2.2	0.0	95.6	"	"	"
38	87-88	0.04	4.7	0.0	44.5	"	"	"
39	88-89	0.01	3.7	0.0	48.4	"	"	"
40	89-90	<0.01	2.4	0.0	58.5	"	"	"

7678-7690 This interval is essentially non-productive.

CORE ANALYSIS RESULTS

Company EL PASO NATURAL GAS COMPANY Formation DAKOTA File RP-3-1425
Well MOORE # 8 Core Type DIAMOND CONV. Date Report 4/27/61
Field BASIN DAKOTA Drilling Fluid WATER BASE MUD Analysts MCGOMAS
County SAN JUAN State NEW MEX. Elev. 6556 GR Location SEC 24 T32N R12W

Lithological Abbreviations

SAND - SD
SAND - SH
LIME - LM
DOLOMITE - DOL
CHERT - CH
GYPSUM - GYP
ANHYDRITE - ANHY
CONGLOMERATE - CONG
FOSSILIFEROUS - FOSS
SANDY - SDY
SHALY - SHY
LIMY - LMY
FINE - FM
MEDIUM - MED
COARSE - CSE
CRYSTALLINE - XLN
GRAIN - GRN
GRANULAR - GRNL
BROWN - BRN
GRAY - GR
VUGGY - VUG
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	
41	9690-91	0.29	5.0	0.0	44.0	VERTICAL FRACTURE
42	91-92	0.07	7.7	2.6	26.0	" "
43	92-93	0.02	6.6	3.0	39.5	" "
44	93-94	0.01	4.8	0.0	45.9	" "
45	94-95	0.01	3.0	0.0	66.6	" "
46	95-96	0.02	2.7	0.0	74.6	" "
47	96-97	0.02	2.2	0.0	54.5	" "
48	97-98	0.12	4.4	0.0	45.5	" "
49	9709-10	0.07	2.9	0.0	86.1	" "
50	9712-13	<0.01	1.7	0.0	94.1	" "
51	9718-19	<0.01	2.7	0.0	74.1	" "
52	19-20	0.02	3.7	0.0	54.0	" "
53	20-21	<0.01	3.0	0.0	53.1	" "
54	21-22	0.02	2.8	0.0	57.2	" "

9690-9722 Although there are two feet with fair porosity (9691-9693), this interval would be interpreted to be essentially non-productive.

CORE ANALYSIS RESULTS

Company EL PASO NATURAL GAS COMPANY Formation LAKOTA File RP-3-1425
Well MOORE # 8 Core Type DIAMOND CONV. Date Report 4/30/61
Field BASIN DAKOTA Drilling Fluid WATER BASE MUD Analysts McCOMAS
County SAN JUAN State NEW MEX Elev. 6556 GR Location SEC 24 T32N R12W

Lithological Abbreviations

SAND - SD SHALE - SH LIME - LM	DOLOMITE - DOL CHERT - CH GYPSUM - GYP	ANHYDRITE - ANHY CONGLOMERATE - CONG FOSSILIFEROUS - FOSS	SANDY - SOY SHALY - SHY LIMY - LMY	FINE - FN MEDIUM - MED COARSE - CSE	CRYSTALLINE - XLN GRAIN - GRN GRANULAR - GRNL	BROWN - BRN GRAY - GR VUGGY - VGY	FRACTURED - FRAC LAMINATION - LAM STYLOLITIC - STY	SLIGHTLY - SL/ VERY - V/ WITH - W/
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SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYs	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER	
68	7763-64	<0.01	5.2	3.8	92.3	VERTICAL FRACTURE
69	64-65	<0.01	2.2	22.5	68.2	" "
70	65-66	<0.01	2.8	17.8	68.1	" "
71	7769-70	<0.01	4.8	10.4	85.5	" "
72	70-71	<0.01	1.8	0.0	95.0	" "
73	71-72	0.01	4.2	0.0	97.9	" "
74	7776-77	0.01	3.9	0.0	97.5	" "
75	77-78	0.02	8.0	0.0	97.5	" "
76	7779-80	0.03	3.8	0.0	97.5	" "
77	80-81	0.03	4.5	0.0	97.9	" "
78	81-82	<0.01	4.5	0.0	97.9	" "
79	7784-85	0.01	5.1	0.0	98.0	" "
80	85-86	<0.01	1.4	0.0	93.2	" "
81	86-87	0.02	7.7	0.0	65.0	" "
82	87-88	<0.01	5.3	0.0	78.3	" "
83	88-89	0.05	9.4	0.0	97.6	" "
84	89-90	0.02	8.2	0.0	67.1	VERTICAL FRACTURE
85	90-91	0.01	7.6	0.0	72.4	" "
86	91-92	0.01	7.3	0.0	89.0	" "
87	92-93	0.10	11.5	0.0	62.6	" "
88	93-94	0.11	10.6	1.9	54.0	" "
89	94-95	0.41	15.3	0.0	58.2	" "
90	95-96	0.46	11.8	0.0	60.1	" "
91	96-97	0.44	11.5	0.0	63.5	VERTICAL FRACTURE
92	97-98	0.43	10.0	0.0	65.0	" "

7763-7786 This interval is essentially non-productive.

7786-7798 This interval is interpreted to be low-capacity water productive.

CORE LABORATORIES, INC.
 Petroleum Reservoir Engineering
 DALLAS, TEXAS

Page No. 6**CORE ANALYSIS RESULTS**

Company EL PASO NATURAL GAS COMPANY Formation DAKOTA File RP-3-1425
 Well MOORE # 8 Core Type DIAMOND CONV. Date Report 5/1/61
 Field BASIN DAKOTA Drilling Fluid WATER BASE MUD Analysts McCOMAS
 County SAN JUAN State NEW MEX. Elev 6556 GR Location SEC 24 T32N R12W

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 - COE	CRYSTALLINE - CLN GRAIN - GRN GRANULAR - GRNL	BROWN - BRN GRAY - GRV VUGGY - VUGY	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	
93	7803-04	0.05	2.6	0.0	54.0	
94	04-05	<0.01	1.9	0.0	68.5	
95	05-06	0.05	5.6	8.9	67.9	
96	7807-08	0.03	5.7	0.0	71.9	VERTICAL FRACTURE
97	08-09	0.03	5.3	0.0	15.1	" "
98	7810-11	<0.01	4.5	0.0	84.4	" "
99	11-12	0.02	3.1	0.0	81.0	" "
100	12-13	0.02	4.7	0.0	87.3	" "
101	13-14	0.02	4.0	0.0	50.0	" "
102	14-15	<0.01	4.0	0.0	59.8	" "
103	15-16	0.02	4.3	0.0	37.1	" "
104	16-17	0.44	7.5	2.7	69.4	" "
105	17-18	0.29	6.9	0.0	69.5	" "
106	18-19	0.52	6.0	0.0	66.6	" "
107	19-20	0.21	3.8	0.0	68.2	" "
108	20-21	0.44	5.0	0.0	68.0	" "
109	21-22	0.23	4.2	0.0	57.0	" "
110	22-23	0.32	5.0	0.0	61.8	" "
111	23-24	0.05	4.0	0.0	70.0	" "
112	24-25	7.7	8.8	0.0	61.3	" "
113	25-26	0.21	8.3	0.0	71.0	" "
114	26-27	0.07	13.9	0.0	79.4	" "
115	27-28	0.12	10.9	0.0	75.2	" "
116	28-29	1.1	17.2	0.0	78.1	" "
117	29-30	0.37	7.9	0.0	54.4	VERTICAL FRACTURE
118	30-31	2.1	13.0	0.0	74.6	" "
119	31-32	0.02	6.6	0.0	60.5	" "
120	32-33	0.21	10.0	0.0	74.0	" "

7803-7816 This interval is essentially non-productive.

7816-7833 This interval is interpreted to be low-capacity water productive.