CL-511-1

PRELIMINARY REPORT

File

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

CORE ANALYSIS RESULTS

Company MESA PETROLEUM CO. Formation Gallup File RP-3-3109
Well S. Blanco Navajo 25-1 Core Type D.C. 4" Date Report 7-24-81
Field Lybrook-Gallup Drilling Fluid W.B. Gel Analysts GG, DS
County San Juan State N.M. Elev. 6924 KB Location SE, SE Sec. 25-24N-8W

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 MILLIDARCYS	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE: OIL	RESIDUAL SATURATION PER CENT PORE: TOTAL WATER	GRAIN DENSITY	SAMPLE DESCRIPTION AND REMARKS

CONVENTIONAL ANALYSIS WITH BOYLE'S LAW POROSITY AND GRAIN DENSITY

1	5370-71	0.01	2.7	24.3	56.8	2.68	SD-GRY,f grn,shl lam
2	5371-72	0.34	3.2	25.7	65.7	2.67	SD-GRY,f grn,shl lam
3	5372-73	0.59	3.5	21.9	59.4	2.69	SD-GRY,f grn,shl lam
4	5373-74	0.01	3.9	23.7	65.8	2.68	SD-GRY,f grn,shl lam
5	5374-75	0.01	3.9	37.8	48.6	2.67	SD-GRY,f grn,shl lam
6	5375-76	0.01	5.6	39.6	33.3	2.66	SD-GRY,f grn,shl lam
7	5376-77	0.02	6.4	47.8	47.8	2.67	SD-GRY,f grn,shl lam
8	5377-78	0.03	2.6	30.0	63.3	2.66	SD-GRY,f grn,shl lam
9	5378-79	0.01	3.1	31.6	60.5	2.67	SD-GRY,f grn,shl lam
10	5379-80	0.01	3.1	25.0	63.9	2.66	SD-GRY,f grn,shl lam
11	5380-81	0.07	2.8	20.8	62.5	2.68	SD-GRY,f grn,shl lam
12	5381-82	0.02	3.5	25.7	60.0	2.67	SD-GRY,f grn,shl lam
13	5382-83	0.05	3.2	25.7	54.3	2.67	SD-GRY,f grn,shl lam
14	5383-84	0.01	3.0	27.8	44.4	2.68	SD-GRY,f grn,shl lam
15	5384-85	0.03	3.2	19.2	65.4	2.66	SD-GRY,f grn,shl lam
16	5385-86	0.05	3.3	16.7	70.0	2.67	SD-GRY,f grn,shl lam
17	5386-87	0.18	3.5	35.5	41.9	2.66	SD-GRY,f grn,shl lam
18	5387-88	0.01	3.2	37.8	43.2	2.68	SD-GRY,f grn,shl lam
19	5388-89	0.01	2.2	25.9	55.6	2.66	SD-GRY,f grn,shl lam
20	5389-90	0.02	2.2	25.0	60.7	2.67	SD-GRY,f grn,shl lam
21	5390-91	0.01	3.5	31.6	55.3	2.68	SD-GRY,f grn,shl lam
22	5391-92	0.01	2.9	24.1	58.6	2.66	SD-GRY,f grn,shl lam
23	5392-93	0.01	3.1	24.1	58.6	2.67	SD-GRY,f grn,shl lam
24	5393-94	0.07	3.1	25.7	60.0	2.66	SD-GRY,f grn,shl lam
25	5394-95	0.03	2.9	23.3	56.7	2.67	SD-GRY,f grn,shl lam
26	5395-96	0.08	2.4	29.2	51.2	2.68	SD-GRY,f grn,shl lam
27	5396-97	0.01	3.1	30.4	50.0	2.66	SD-GRY,f grn,shl lam
28	5397-98	0.01	3.0	28.1	59.4	2.68	SD-GRY,f grn,shl lam
29	5398-99	0.12	3.8	37.8	48.6	2.65	SD-GRY,f grn,shl lam
30	5399-5400	0.01	2.3	24.1	48.3	2.68	SD-GRY,f grn,shl lam
31	5400-01	0.01	3.0	20.0	60.0	2.68	SD-GRY,f grn,shl lam
32	5401-02	0.09	3.1	25.0	42.9	2.67	SD-GRY,f grn,shl lam
33	5402-03	0.04	2.8	20.8	58.3	2.65	SD-GRY,f grn,shl lam
34	5403-04	0.04	2.4	16.7	63.3	2.65	SD-GRY,f grn,shl lam

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Field Lybrook-Gallup Drilling Fluid W.B. Gel Analysts GG,DS
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SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE OIL	RESIDUAL SATURATION PER CENT PORE TOTAL WATER	GRAIN DENSITY	SAMPLE DESCRIPTION AND REMARKS
35	5404-05	0.39	3.0	24.1	51.7	2.64	SD-GRY,f grn,shl lam
36	5405-06	0.01	3.3	23.7	55.3	2.66	SD-GRY,f grn,shl lam
37	5406-07	0.01	3.0	43.2	40.9	2.67	SD-GRY,f grn,shl lam
38	5407-08	0.02	3.7	43.2	27.0	2.66	SD-GRY,f grn,shl lam
39	5408-09	0.02	5.1	46.7	31.1	2.66	SD-GRY,f grn,shl lam
40	5409-10	0.01	1.3	23.8	28.6	2.66	SD-GRY,f grn,shl lam
41	5410-11	0.01	2.1	25.0	53.6	2.62	SD-GRY,f grn,shl lam
42	5411-12	0.85*	1.7	30.8	59.6	2.61	SD-GRY,f grn.shl lam
43	5412-13	**	2.2	29.2	60.4	2.59	SD-GRY,vf grn,v/shl lam
44	5413-14	**	2.1	24.3	45.9	2.64	SD-GRY,vf grn,v/shl lam
45	5414-15	**	(5.5)	25.5	63.6	**	SD-GRY,vf grn,v/shl lam,R
	5415-97	- -	-	-	-	-	-DRILLED
46	5497-98	0.01	3.1	25.0	53.6	2.71	SD-GRY,f grn,shly
47	5498-99	0.01	3.1	20.0	60.0	2.71	SD-GRY,f grn.shly
48	5499-5500	2.8	5.7	27.3	61.4	2.68	SD-GRY,f grn,shly
49	5500-01	0.13	9.2	37.5	22.3	2.61	SD-BRN,f grn,shly
50	5501-02	0.11	9.4	36.7	20.8	2.61	SD-BRN,f grn,shly
51	5502-03	0.08	9.1	36.8	21.9	2.61	SD-BRN,f grn,shly
52	5503-04	0.31	12.0	18.6	16.3	2.61	SD-BRN,f grn,shly
53	5504-05	0.11	9.0	35.3	21.0	2.60	SD-BRN,f grn,shly,VF
54	5505-06	0.03	3.3	33.3	12.1	2.63	SD-LT GRY,f grn,sl/shl,VF
55	5506-07	0.03	3.1	29.8	21.3	2.64	SD-LT GRY,f grn,sl/shl
56	5507-08	0.12	7.0	35.2	35.2	2.64	SD-LT GRY,f grn,shly
57	5508-09	0.09	9.1	32.3	19.5	2.60	SD-BRN,f grn,shly
58	5509-10	0.08	7.4	27.7	27.7	2.62	SD-BRN,f grn,shly
59	5510-11	0.12	6.3	25.7	45.9	2.64	SD-BRN,f grn,shly
60	5511-12	0.14	2.4	17.9	59.0	2.67	SD-DK GRY,f grn,shly
61	5512-13	0.07	5.8	8.9	57.1	2.67	SD-GRY,f grn,shly
62	5513-14	0.04	5.6	10.0	48.0	2.65	SD-GRY,f grn,shly
63	5514-15	0.25	3.2	8.1	48.4	2.67	SD-DK GRY,f grn,shly
64	5515-16	0.02	2.3	8.3	41.7	2.67	SD-LT GRY,f grn,sl/shl
65	5516-17	0.03	2.9	8.0	32.0	2.65	SD-LT GRY,f grn,sl/shl
66	5517-18	1.7	4.3	9.6	57.7	2.67	SD-DK GRY,f grn,shly
67	5518-19	0.48	2.7	14.7	61.8	2.65	SD-DK GRY,f grn,shly
68	5519-20	0.98	3.7	13.5	51.4	2.66	SD-DK GRY,f grn,shly
69	5520-21	0.01	2.8	12.8	69.2	2.66	SD-DK GRY,f grn,shly
70	5521-22	0.01	2.9	12.2	61.0	2.67	SD-DK GRY,f grn,shly
71	5522-23	0.01	3.1	11.9	45.2	2.65	SD-DK GRY,f grn,shly
72	5523-24	0.04	2.2	24.2	58.6	2.66	SD-DK GRY,f grn,shly

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73	5524-25	0.09	1.8	18.5	63.0	2.66	SD-DK GRY,f grn,shly
74	5525-26	0.59	2.3	14.3	71.4	2.65	SD-DK GRY,f grn,shly
75	5526-27	0.03	3.0	12.8	64.1	2.66	SD-DK GRY,f grn,shly
76	5527-28	0.24	2.8	13.9	75.0	2.66	SD-DK GRY,f grn,shly
77	5528-29	0.06	2.7	16.1	67.7	2.67	SD-DK GRY,f grn,shly
78	5529-30	0.30	2.1	8.3	54.2	2.67	SD-DK GRY,f grn,shly
79	5530-31	0.52	2.2	20.0	65.7	2.65	SD-DK GRY,f grn,shly
80	5531-32	0.01	3.2	14.3	71.4	2.68	SD-DK GRY,f grn,shly
81	5532-33	0.01	3.2	14.3	71.4	2.68	SD-DK GRY,f grn,shly
82	5533-34	0.06	3.8	13.2	71.1	2.68	SD-DK GRY,f grn,shly
83	5534-35	0.01	3.0	13.5	67.6	2.68	SD-DK GRY,f grn,shly
84	5535-36	0.02	3.6	13.2	71.1	2.68	SD-DK GRY,f grn,shly
85	5536-37	0.35	2.5	15.9	65.9	2.66	SD-DK GRY,f grn,shly
86	5537-38	0.11	3.1	14.7	67.6	2.69	SD-DK GRY,f grn,shly
87	5538-39	0.01	2.9	21.9	59.4	2.68	SD-DK GRY,f grn,shly
88	5539-40	0.01	3.2	18.4	71.1	2.67	SD-DK GRY,f grn,shly
89	5540-41	0.02	4.2	15.2	6.1	2.67	SD-GRY,f grn,shly
90	5541-42	0.01	4.1	11.4	27.3	2.68	SD-GRY,f grn,shly
91	5542-43	0.04	4.1	8.5	50.8	2.67	SD-GRY,f grn,shly
92	5543-44	0.34	4.4	10.9	67.4	2.66	SD-GRY,f grn,shly
93	5544-45	0.01	3.1	13.5	59.5	2.69	SD-DK GRY,f grn,shly
94	5545-46	0.01	3.4	12.5	67.5	2.69	SD-DK GRY,f grn,shly
95	5546-47	0.01	3.4	17.1	56.1	2.67	SD-DK GRY,f grn,shly
96	5547-48	0.03	5.1	38.6	50.9	2.65	SD-DK GRY,f grn,shly
97	5548-49	0.04	4.6	27.4	52.9	2.66	SD-DK GRY,f grn,shly
98	5549-50	0.04	7.3	54.2	34.7	2.64	SD-BRN,f grn,shly
99	5550-51	0.03	6.9	63.2	25.0	2.64	SD-BRN,f grn,shly
100	5551-52	0.03	7.6	59.0	29.5	2.63	SD-BRN,f grn,shly
101	5552-53	0.03	6.7	46.7	46.7	2.63	SD-BRN,f grn,shly
102	5553-54	0.03	6.0	40.0	37.1	2.65	SD-BRN,f grn,shly
103	5554-55	0.02	5.4	22.2	50.8	2.65	SD-BRN,f grn,shly
104	5555-56	0.04	4.9	25.0	55.4	2.65	SD-BRN,f grn,shly
105	5556-57	0.12	3.8	13.2	71.1	2.67	SD-GRY,f grn,shly
106	5557-58	0.01	4.1	11.6	72.1	2.67	SD-GRY,f grn,shly
107	5558-59	0.01	3.9	11.4	56.8	2.68	SD-GRY,f grn,shly
108	5559-60	0.01	3.2	12.5	62.5	2.67	SD-GRY,f grn,shly
109	5560-61	0.01	2.9	13.9	75.0	2.67	SD-GRY,f grn,shly
110	5561-62	0.03	5.2	20.6	41.2	2.67	SD-GRY,f grn,shly
111	5562-63	0.02	5.2	18.4	53.1	2.67	SD-GRY,f grn,shly

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112	5563-64	0.02	5.6	13.2	60.5	2.66	SD-GRY,f grn,shly
113	5564-65	0.04	5.4	22.6	48.4	2.67	SD-GRY,f grn,shly
114	5565-66	0.04	5.8	26.7	47.1	2.65	SD-GRY,f grn,shly
115	5566-67	0.04	7.7	36.5	34.1	2.65	SD-BRN,f grn,shly
116	5567-68	0.03	6.4	25.9	53.7	2.66	SD-BRN,f grn,shly
117	5568-69	0.08	10.6	31.1	22.7	2.65	SD-BRN,f grn,shly
118	5569-70	0.13	9.7	33.9	19.7	2.65	SD-BRN,f grn,shly
119	5570-71	0.07	10.7	31.7	19.2	2.64	SD-BRN,f grn,shly
120	5571-72	0.06	10.3	35.8	21.7	2.64	SD-BRN,f grn,shly
121	5572-73	0.21	9.9	37.3	20.9	2.64	SD-BRN,f grn,shly
122	5573-74	0.04	9.1	47.9	25.6	2.64	SD-BRN,f grn,shly
123	5574-75	0.04	8.5	36.9	32.1	2.65	SD-BRN,f grn,shly
124	5575-76	0.03	7.0	22.8	40.5	2.66	SD-GRY,f grn,shly
125	5576-77	0.03	7.7	27.1	40.0	2.66	SD-GRY,f grn,shly
126	5577-78	0.03	5.8	23.3	53.3	2.67	SD-GRY,f grn,shly
127	5578-79	0.02	6.2	26.7	50.0	2.67	SD-GRY,f grn,shly
128	5579-80	0.04	6.5	24.6	49.1	2.67	SD-GRY,f grn,shly
129	5580-81	0.02	5.2	24.6	52.6	2.69	SD-GRY,f grn,shly
130	5581-82	0.02	6.6	22.2	57.4	2.67	SD-GRY,f grn,shly
131	5582-83	0.03	7.5	27.1	47.5	2.67	SD-GRY,f grn,shly
132	5583-84	0.02	5.2	21.8	52.7	2.66	SD-GRY,f grn,shly
133	5584-85	0.03	4.3	18.4	57.1	2.67	SD-GRY,f grn,shly
134	5585-86	0.23	4.1	11.4	61.4	2.67	SD-GRY,f grn,shly
135	5586-87	0.03	4.4	11.9	64.3	2.67	SD-GRY,f grn,shly
136	5587-88	0.22	4.2	11.1	68.9	2.68	SD-GRY,f grn,shly
137	5588-89	0.01	3.1	12.8	64.1	2.66	SD-GRY,f grn,shly
138	5589-90	0.03	2.9	15.9	65.9	2.67	SD-GRY,f grn,shly
139	5590-91	0.03	3.4	17.6	54.9	2.68	SD-GRY,f grn,shly
140	5591-92	0.05	10.0	41.7	16.5	2.71	SD-BRN,f grn,shly
141	5592-93	0.06	10.1	32.3	16.5	2.64	SD-BRN,f grn,shly
142	5593-94	0.03	5.1	45.2	25.8	2.66	SD-BRN,f grn,shly
143	5594-95	0.05	8.9	42.7	20.4	2.64	SD-BRN,f grn,shly
144	5595-96	0.04	7.8	29.4	38.9	2.64	SD-BRN,f grn,shly
145	5596-97	0.04	7.6	32.9	31.6	2.71	SD-GRY,f grn,shly
146	5597-98	0.03	6.3	29.9	41.8	2.62	SD-GRY,f grn,shly
147	5598-99	0.03	7.1	32.3	35.5	2.64	SD-GRY,f grn,shly
148	5599-5600	0.03	6.6	27.3	36.4	2.64	SD-GRY,f grn,shly
149	5600-01	0.03	4.9	24.2	40.0	2.66	SD-GRY,f grn,shly
150	5601-02	0.05	6.3	33.3	40.0	2.65	SD-GRY,f grn,shly

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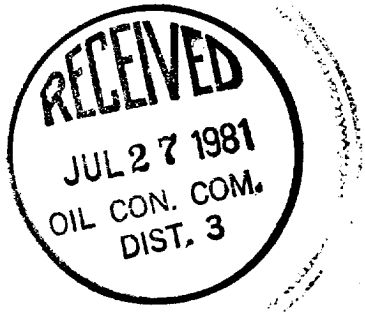
SAND-SD, SHALE-SH, LIME-LM, DOLOMITE-DOL, CHERT-CH, GYPSUM-GYP, ANHYDRITE-ANHY, CONGLOMERATE-CONG, FOSSILIFEROUS-FOSS, SANDY-SDY, SHALY-SHY, LIMY-LMY, FINE-FN, MEDIUM-MED, COARSE-CSE, CRYSTALLINE-XLN, GRAIN-GRN, GRANULAR-GRNL, BROWN-BRN, GRAY-GY, VUGGY-VGY, FRACTURED-FRAC, LAMINATION-LAM, STYLOLITIC-STY,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

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE: OIL	RESIDUAL SATURATION PER CENT PORE: TOTAL WATER	GRAIN DENSITY	SAMPLE DESCRIPTION AND REMARKS
151	5602-03	0.03	3.7	26.1	54.3	2.67	SD-GRY, f grn, shly
152	5603-04	0.01	3.1	15.8	55.3	2.68	SD-BRN, f grn, shly
153	5604-05	0.03	4.8	38.2	40.0	2.67	SD-BRN, f grn, shly
154	5605-06	0.03	7.2	43.6	26.6	2.65	SD-BRN, f grn, shly
155	5606-07	0.06	8.2	39.8	25.5	2.64	SD-BRN, f grn, shly
156	5607-08	0.03	6.5	38.4	38.4	2.65	SD-BRN, f grn, shly
157	5608-09	0.10	6.6	35.0	23.0	2.63	SD-BRN, f grn, shly
158	5609-10	0.02	6.2	40.0	35.0	2.65	SD-BRN, f grn, shly
159	5610-11	0.03	6.7	38.0	30.4	2.64	SD-BRN, f grn, shly
160	5611-12	14*	6.6	39.0	33.8	2.65	SD-BRN, f grn, shly
161	5612-13	0.02	6.0	41.8	35.8	2.65	SD-BRN, f grn, shly
162	5613-14	0.02	5.8	40.0	32.0	2.65	SD-BRN, f grn, shly
163	5614-15	0.02	6.4	40.0	34.3	2.66	SD-BRN, f grn, shly
164	5615-16	0.02	4.6	25.0	55.8	2.66	SD-BRN, f grn, shly



R RUBBLE
VF VERTICAL FRACTURE
* FRACTURE PERMEABILITY
** SAMPLE NOT SUITABLE FOR ANALYSIS

GALLUP FORMATION UNSUITABLE FOR WHOLE CORE ANALYSIS, PLUG ANALYSIS USED.