E076

CAMBRIA OIL COMPANY

ELLIOT NO. 11-13

B-1 INDUSTRIES, INC.

B-1 INDUSTRIES, INC.

CORE ANALYSIS REPORT

COMPANY	CAMBRIA OIL COMPANY - True Oil			FILE NO.	1787
WELL	ELLIOT #11-13	FORMATION	DES MOINES	DATE	2-1-87
FIELD		CORE TYPE	DIA CONV	ELEVATION	4579' KB
COUNTY	SIOUX	MUD TYPE	SALT SAT	ANALYST	CH BP KB
STATE	NEBRASKA	LOCATION	NW NW SEC 13 T25N R54W		

BOYLES LAW CORE ANALYSIS, PERMEABILITY TO AIR AT 1000psi NET OVERBURDEN

PERMEABILITY & POROSITY WERE RUN ON SALT FREE PLUGS

SAMP NO	DEPTH	PERMEABILITY HORIZ	PERMEABILITY VERT	POR %	OIL %	WATER %	GR DNS	DESCRIPTION
	6875-77							ANHYDRITE NO ANALYSIS
1	6877-78	0.02		5.1	0.0	66.3	2.88	DOL GRY VFXLN ANHY INC
2	-79	0.01		6.3	2.1	73.4	2.86	DOL GRY VFXLN ANHY INC
3	-80	0.01		7.7	4.2	63.7	2.85	DOL GRY VFXLN
4	-81	0.02		8.1	0.0	75.0	2.85	DOL GRY VFXLN
5	-82	0.01		8.3	7.4	77.7	2.83	DOL DK GRY VFXLN
6	-83	0.01		2.6	0.0	97.2	2.82	DOL TAN VFXLN
7	-84	0.01		6.1	11.2	78.2	2.82	DOL TAN VFXLN
8	-85	<0.01		6.9	5.1	75.9	2.83	DOL GRY VFXLN
	6885-94							SHALE NO ANALYSIS
9	6894-95	0.14		10.9	20.7	67.2	2.74	DOL DK GRY VFXLN
10	-96	<0.01		5.7	46.0	52.5	2.81	LS BLK VFXLN SH
11	-97	0.01		9.7	0.0	93.7	2.85	DOL GRY VFXLN
	6897-98							ANHYDRITE NO ANALYSIS
12	6898-99	0.01		10.9	0.0	76.1	2.84	DOL TAN VFXLN
13	6899-00	0.39		7.2	0.0	63.5	2.87	DOL TAN VFXLN
14	6900-01	1.0		17.8	0.0	52.5	2.87	DOL TAN VFXLN
15	-02	2.8		21.3	0.0	47.0	2.86	DOL TAN VFXLN
16	-03	1.2		19.8	0.0	75.3	2.84	DOL TAN VFXLN
17	-04	1.9		22.0	0.3	76.3	2.84	DOL TAN VFXLN
18	-05	1.3		22.3	0.2	64.1	2.83	DOL TAN VFXLN
19	-06	0.27		13.4	0.0	65.2	2.88	DOL TAN VFXLN
20	-07	0.39		15.7	0.0	60.1	2.86	DOL TAN VFXLN
21	-08	0.28		26.0	0.0	75.9	2.87	DOL TAN VFXLN
22	-09	0.30		18.2	0.2	52.8	2.83	DOL TAN VFXLN
23	-10	5.2		24.8	0.2	76.0	2.82	DOL TAN VFXLN
	6910-11							ANHYDRITE NO ANALYSIS
24	6911-12	0.02		16.1	0.2	80.0	2.83	DOL TAN VFXLN

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STATE	NEBRASKA	LOCATION	NW NW SEC 13 T25N R54W		

BOYLES LAW CORE ANALYSIS, PERMEABILITY TO AIR AT 1000psi NET OVERBURDEN

PERMEABILITY & POROSITY WERE RUN ON SALT FREE PLUGS

SAMP NO	DEPTH	PERMEABILITY HORIZ	PERMEABILITY VERT	POR %	OIL %	WATER %	GR DNS	DESCRIPTION	
25	6912-13	0.01		7.2	0.3	45.7	2.81	LS TAN VFXLN	
26	-14	< 0.01		3.2	1.7	51.3	2.79	LS TAN VFXLN	
27	-15	0.01		2.5	0.0	57.4	2.80	LS GRY VFXLN	
28	-16	0.01		2.9	0.0	92.8	2.75	LS GRY VFXLN	VF
29	-17	0.01		2.4	0.0	93.5	2.75	LS GRY VFXLN	VF
30	-18	0.01		3.0	0.0	70.1	2.75	LS GRY VFXLN	
31	-19	0.01		3.9	12.0	84.3	2.76	LS GRY VFXLN	
32	-20	0.01		5.6	7.5	90.1	2.79	DOL DK GRY FXLN	
33	-21	0.01		4.7	9.8	58.7	2.77	LS GRY FXLN	
34	-22	0.01		2.0	9.0	35.9	2.72	LS GRY FXLN	
35	-23	0.01		2.7	13.4	80.2	2.75	LS GRY XLN	
	6923-24							SHALE NO ANALYSIS	
36	6924-25	0.01		1.2	29.8	59.6	2.70	LS DK GRY ARK	
	6925-26							ANHYDRITE NO ANALYSIS	
37	6926-27	0.10		13.7	1.7	81.0	2.83	DOL GRY FXLN	
38	-28	0.85		23.3	0.2	78.8	2.81	DOL LT GRY VFXLN ARG	
39	-29	0.39		19.0	0.3	77.7	2.81	DOL LT GRY VFXLN ARG	
40	-30	0.01		5.0	0.0	56.1	2.78	LS GRY TAN XLN	
41	-31	0.04		4.3	0.0	49.6	2.75	DOL GRY TAN VFXLN ARG	
42	-32	0.01		3.1	0.0	94.1	2.74	LS GRY FXLN	
43	-33	0.06		11.3	0.0	68.2	2.83	DOL GRY FXLN	
	6933-34							SHALE & ANHYDRITE	
44	6934-35	0.07		12.1	0.0	69.6	2.82	DOL GRY FXLN	
45	-36	0.23		14.6	8.9	55.4	2.82	DOL GRY FXLN	
46	-37	0.06		10.6	24.4	67.2	2.82	LS GRY FXLN	
47	-38	0.01		3.5	4.7	61.6	2.72	SS GRY FG	
48	-39	0.09		4.0	7.2	36.1	2.72	SS GRY FG	
49	6939-40	2.2		5.7	3.9	23.6	2.73	SS GRY FG	

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COUNTY	SIOUX	MUD TYPE	SALT SAT	ANALYST	CH BP KB
STATE	NEBRASKA	LOCATION	NW NW SEC 13 T25N R54W		

BOYLES LAW CORE ANALYSIS, PERMEABILITY TO AIR AT 1000psi NET OVERBURDEN

PERMEABILITY & POROSITY WERE RUN ON SALT FREE PLUGS

SAMP NO	DEPTH	PERMEABILITY HORIZ	PERMEABILITY VERT	POR %	OIL %	WATER %	GR DNS	DESCRIPTION	
50	6940-41	13		8.7	11.7	37.3	2.70	SS GRY FG	
51	-42	1.1		5.8	9.6	23.0	2.68	SS GRY FG	
52	-43	0.42		6.7	2.6	79.5	2.66	SS GRY FG	
53	-44	0.04		5.6	0.0	53.3	2.70	SS GRY FG V CALC	
54	-45	2.9		7.4	0.0	52.0	2.68	SS GRY FG V CALC	
55	-46	11		16.0	0.0	71.2	2.69	SS GRY FG V CALC	
56	-47	3.1		8.9	0.0	49.3	2.70	SS GRY FG V CALC	
57	-48	0.04		3.0	0.0	39.1	2.72	SS GRY FG CALC	
58	-49	0.01		1.9	0.0	59.3	2.71	LS GRY DNS	
59	-50	0.01		1.0	0.0	52.1	2.71	LS TAN VFXLN	
	6950-51							ANHYDRITE NO ANALYSIS	
60	6951-52	0.01		1.7	0.0	38.8	2.73	LS TAN DNS	
61	-53	0.01		2.0	0.0	41.0	2.74	LS TAN VFXLN	
62	-54	6.4		23.9	0.3	87.0	2.83	DOL TAN VFXLN	VF
	6954-55							ANHYDRITE NO ANALYSIS	
63	6955-56	3.1		21.9	0.3	75.8	2.83	DOL TAN VFXLN	
64	-57	1.7		19.0	0.0	67.3	2.83	DOL TAN VFXLN	
65	-58	0.96		14.4	0.0	61.7	2.83	DOL TAN VFXLN	
66	-59	0.01		3.7	0.8	50.1	2.76	DOL TAN VFXLN	VF
67	-60	< 0.01		1.9	0.0	49.1	2.72	LS GRY XLN	VF
68	-61	< 0.01		2.0	0.0	61.2	2.72	LS GRY XLN	
	6961-62							SHALE NO ANALYSIS	
69	6962-63	< 0.01		5.0	6.8	68.4	2.70	LS DK GRY XLN CARB	
70	-64	< 0.01		2.3	4.7	66.3	2.72	LS DK GRY XLN CARB	
	6964-65							SHALE NO ANALYSIS	
71	6965-66	< 0.01		2.6	0.0	59.4	2.69	SS GRY FG CALC CARB LAM	
72	-67	< 0.01		1.9	0.0	75.3	2.71	SS GRY FG CALC CARB LAM	
73	6967-68	< 0.01		2.1	0.0	68.2	2.71	LS TAN XLN	

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BOYLES LAW CORE ANALYSIS, PERMEABILITY TO AIR AT 1000psi NET OVERBURDEN

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SAMP NO	DEPTH	PERMEABILITY HORIZ	PERMEABILITY VERT	POR %	OIL %	WATER %	GR DNS	DESCRIPTION	
74	6968-69	<0.01		2.1	0.0	47.4	2.70	LS TAN XLN	
75	-70	<0.01		1.1	0.0	67.8	2.71	LS TAN XLN	
76	-71	<0.01		1.7	0.0	61.1	2.71	LS TAN XLN	
77	-72	<0.01		4.6	0.0	68.8	2.69	LS TAN VFXLN	
78	-73	<0.01		4.3	0.0	69.3	2.67	LS TAN VFXLN	
79	-74	<0.01		4.9	0.0	42.9	2.67	LS TAN VFXLN	
80	-75	<0.01		4.5	0.0	78.8	2.69	SS GRY VFFG CALC	
81	-76	0.02		2.1	0.0	57.8	2.71	LS TAN FXLN	
82	-77	<0.01		1.6	0.0	76.5	2.70	LS GRY XLN	
83	-78	<0.01		2.6	0.0	89.5	2.70	LS TAN XLN	
84	-79	0.01		3.9	0.0	88.7	2.71	LS TAN XLN	
85	-80	0.01		5.6	0.0	79.6	2.71	LS TAN XLN	
86	-81	<0.01		5.2	0.0	86.6	2.71	LS TAN XLN	
87	-82	0.05		8.1	0.0	61.4	2.73	SS GRY FG V CALC	
88	-83	0.01		9.0	0.0	65.4	2.71	SS GRY FG V CALC	
89	-84	<0.01		5.4	0.0	68.7	2.71	SS GRY FG V CALC	
90	-85	0.01		3.4	0.0	48.4	2.68	SS GRY FG V CALC	
91	-86	0.05		4.6	0.0	39.4	2.67	SS GRY FG V CALC	
92	-87	0.15		5.9	0.0	51.1	2.67	SS GRY FG V CALC	
93	-88	0.04		4.8	0.0	38.8	2.67	SS GRY FG V CALC	
94	-89	0.01		2.6	0.0	46.0	2.69	SS GRY FG V CALC	
95	-90	<0.01		3.1	0.0	67.5	2.70	SS GRY FG V CALC	
96	-91	0.01		2.9	0.0	32.1	2.68	SS GRY FG V CALC	
97	-92	0.01		3.3	0.0	34.0	2.67	SS GRY FG V CALC	
98	-93	<0.01		2.8	0.0	41.9	2.69	SS GRY FG V CALC	
99	-94	0.01		2.8	0.0	63.8	2.68	SS GRY FG V CALC	
100	-95	0.01		3.0	0.0	82.0	2.67	SS GRY FG V CALC	
101	6996-96	<0.01		2.9	0.0	40.2	2.70	SS GRY FG V CALC	VF

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SAMP NO	DEPTH	PERMEABILITY HORIZ	PERMEABILITY VERT	POR %	OIL %	WATER %	GR DNS	DESCRIPTION	
102	6996-97	0.01		2.7	0.0	53.6	2.70	SS GRY FG V CALC	VF
103	-98	0.01		2.9	0.0	65.5	2.69	SS GRY FG V CALC	
104	-99	< 0.01		2.7	0.0	46.4	2.69	SS GRY FG V CALC	VF
105	6999-00	0.01		2.5	0.0	35.8	2.70	SS GRY FG V CALC	VF
106	7000-01	0.01		2.8	0.0	33.2	2.73	SS GRY FG V CALC	VF
107	-02	< 0.01		1.9	0.0	66.2	2.70	SS GRY FG V CALC	
108	-03	< 0.01		1.8	0.0	88.6	2.70	LS TAN FXLN	
109	-04	< 0.01		1.9	0.0	37.9	2.71	LS GRY DNS	
110	-05	0.01		1.7	0.0	47.4	2.72	LS TAN DNS CALC INC	
111	-06	0.01		1.4	0.0	52.8	2.84	DOL DK GRY DNS	
112	-07	0.08		7.3	0.0	68.2	2.84	DOL TAN DNS	
113	-08	0.22		14.2	0.0	72.4	2.83	DOL TAN VFXLN	
114	-09	0.01		5.8	0.0	86.7	2.83	DOL TAN VFXLN	
115	-10	0.02		5.9	0.0	65.8	2.85	DOL TAN XLN	VF
116	-11	< 0.01		3.1	0.0	40.5	2.87	DOL TAN XLN	VF
117	-12	0.01		3.5	0.0	62.6	2.85	SS GRY FG	VF
118	-13	0.01		3.3	0.0	79.0	2.74	SS GRY TAN FG V CALC	
119	-14	0.02		3.5	0.0	51.9	2.77	SS GRY TAN FG V CALC	
120	-15	0.02		3.6	0.0	70.3	2.84	SS GRY FG	
121	-16	2.0		9.4	0.0	71.1	2.84	SS GRY VFG	
122	-17	6.4		10.9	0.0	79.3	2.84	SS GRY VFG	
123	-18	0.13		5.7	0.0	62.3	2.83	SS GRY VFG CALC	VF
124	-19	0.16		11.5	0.0	63.0	2.83	SS TAN VFG	VF
125	-20	< 0.01		3.7	0.0	67.4	2.84	DOL GRY FXLN VUGGY	
126	-21	22		21.5	0.0	90.3	2.83	DOL GRY VFXLN VUGGY	
127	-22	7.2		21.4	0.0	92.6	2.81	DOL GRY VFXLN VUGGY	
128	-23	0.65		20.8	0.0	79.6	2.83	DOL GRY VFXLN	
129	7023-24	1.3		21.4	0.0	77.0	2.81	DOL GRY VFXLN	

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FIELD		**CORE TYPE**	DIA CONV	**ELEVATION**	4579' KB
COUNTY	SIOUX	**MUD TYPE**	SALT SAT	**ANALYST**	CH BP KB
STATE	NEBRASKA	**LOCATION**	NW NW SEC 13 T25N R54W		

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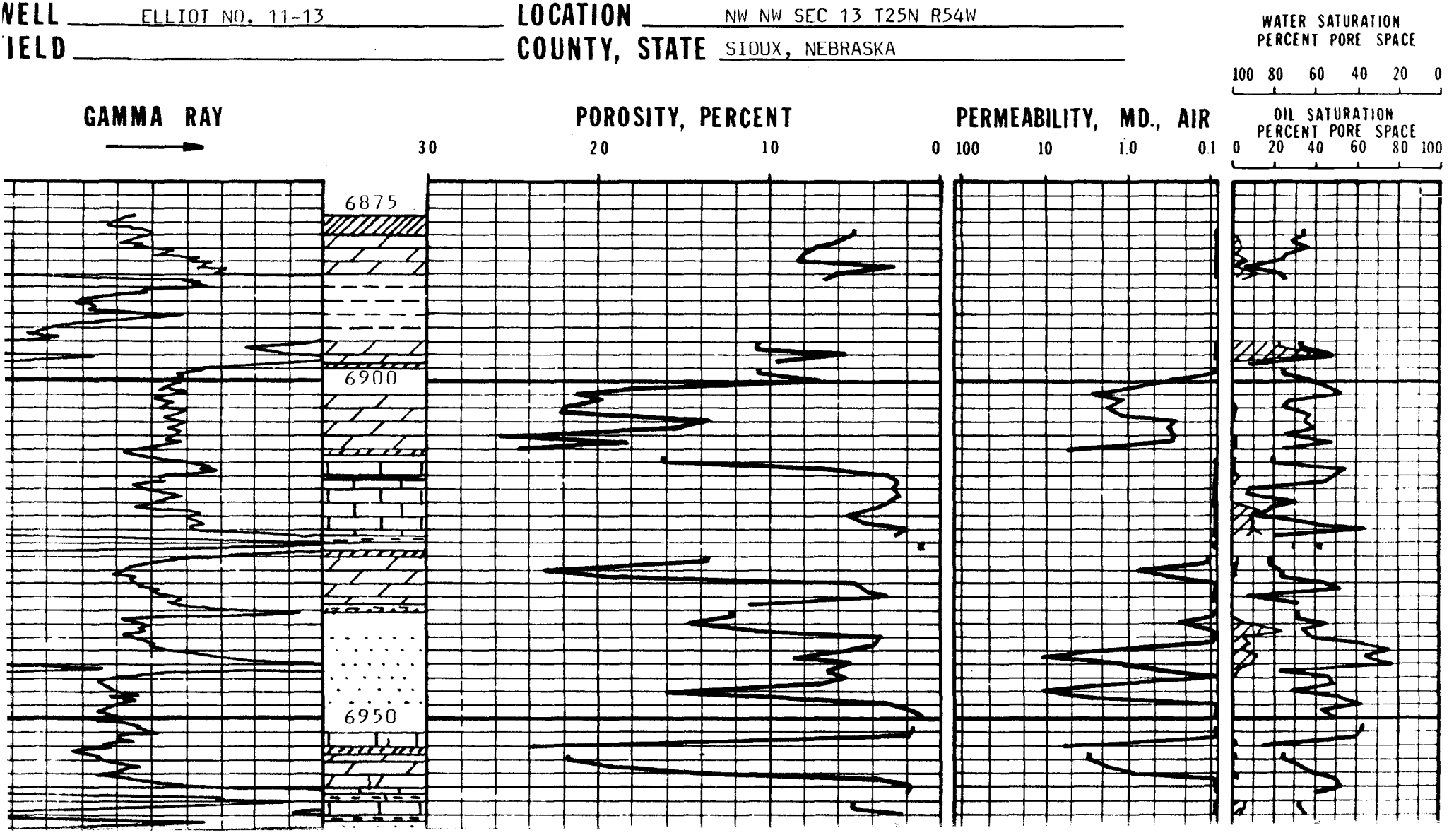
PERMEABILITY & POROSITY WERE RUN ON SALT FREE PLUGS

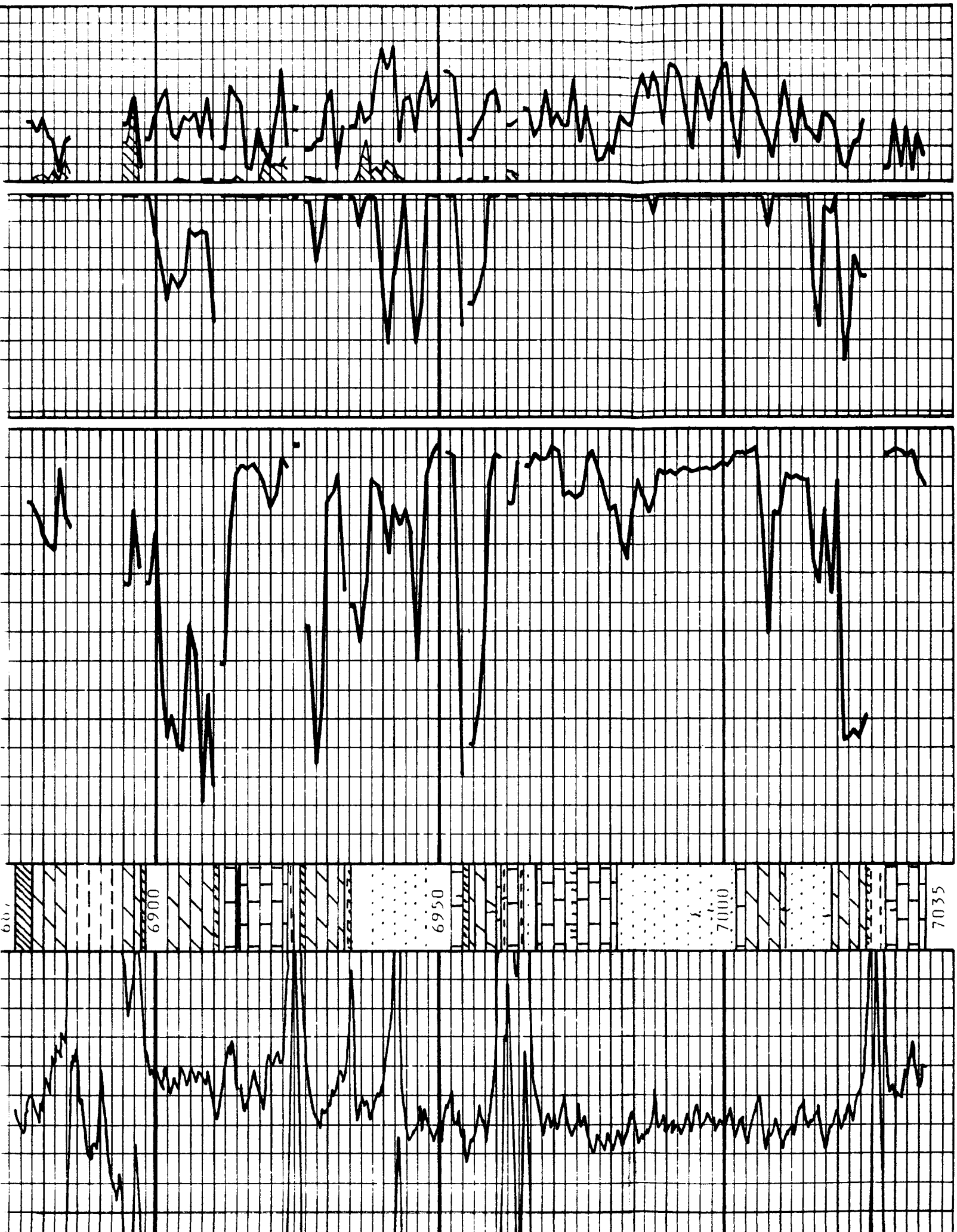
SAMP NO	DEPTH	PERMEABILITY HORIZ	PERMEABILITY VERT	POR %	OIL %	WATER %	GR DNS	DESCRIPTION	
130	7024-25	1.3		19.5	0.0	64.4	2.81	DOL GRY VFXLN	
	7025-28							SHALE NO ANALYSIS	
131	7028-29	0.01		1.9	0.0	92.7	2.70	LS TAN VFXLN	
132	-30	0.01		1.3	0.0	65.8	2.68	LS TAN XLN	VF
133	-31	0.01		1.6	0.0	91.2	2.68	LS TAN XLN	
134	-32	0.01		2.0	0.0	69.1	2.72	LS TAN FXLN	
135	-33	0.01		1.6	0.0	96.5	2.70	LS TAN FXLN	
136	-34	0.01		3.2	0.0	74.1	2.71	LS TAN XLN	
137	7034-35	0.01		4.0	0.0	85.0	2.74	LS TAN XLN	

B-1 INDUSTRIES, INC.

CORE ANALYSIS GRAPH

COMPANY CAMBRIA OIL COMPANY
WELL ELLIOT NO. 11-13
FIELD
MUD TYPE SALT SATURATED
LOCATION NW NW SEC 13 T25N R54W
COUNTY, STATE SIOUX, NEBRASKA
DATE 1-29-87
FILE 1787

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