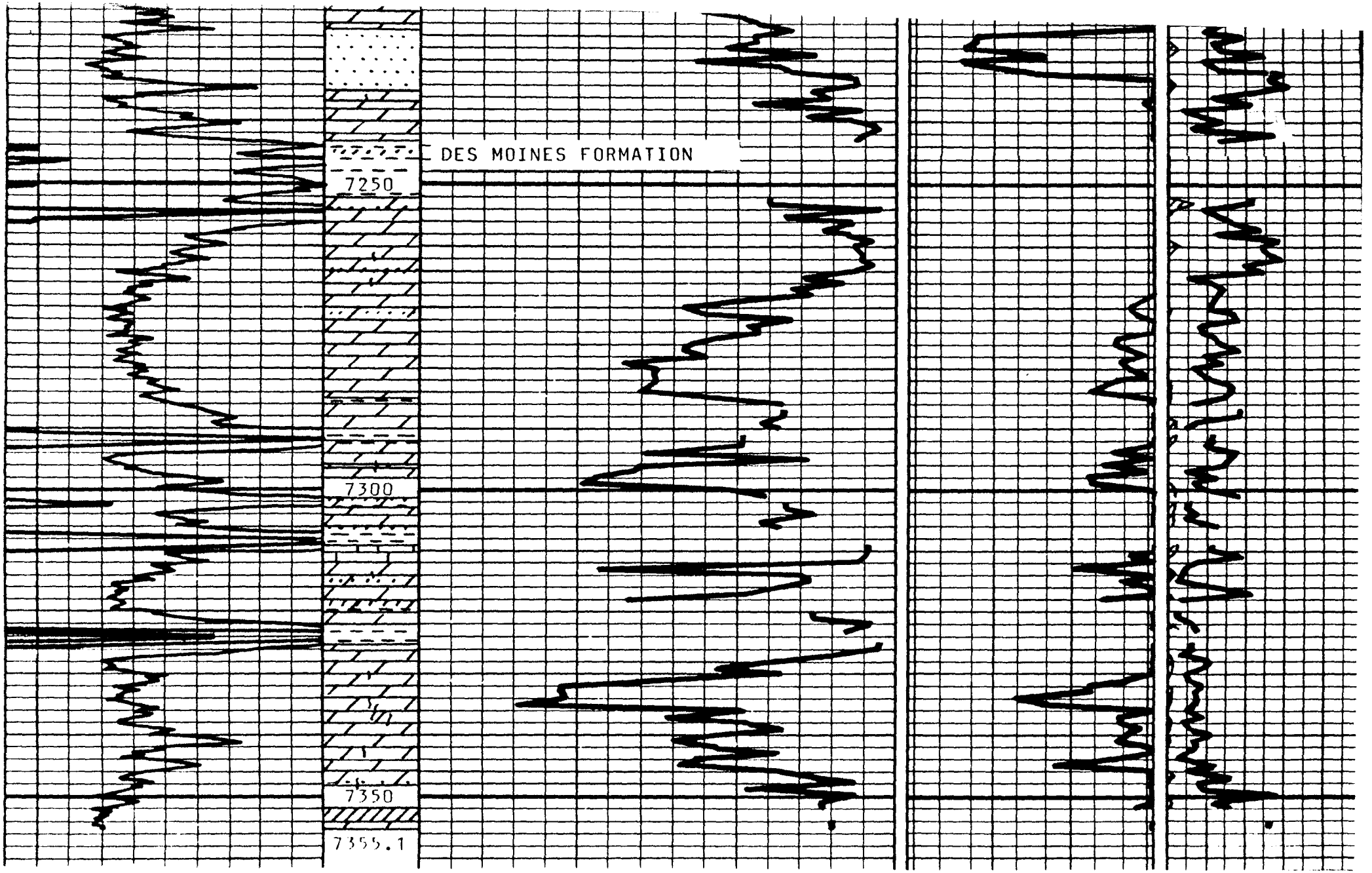
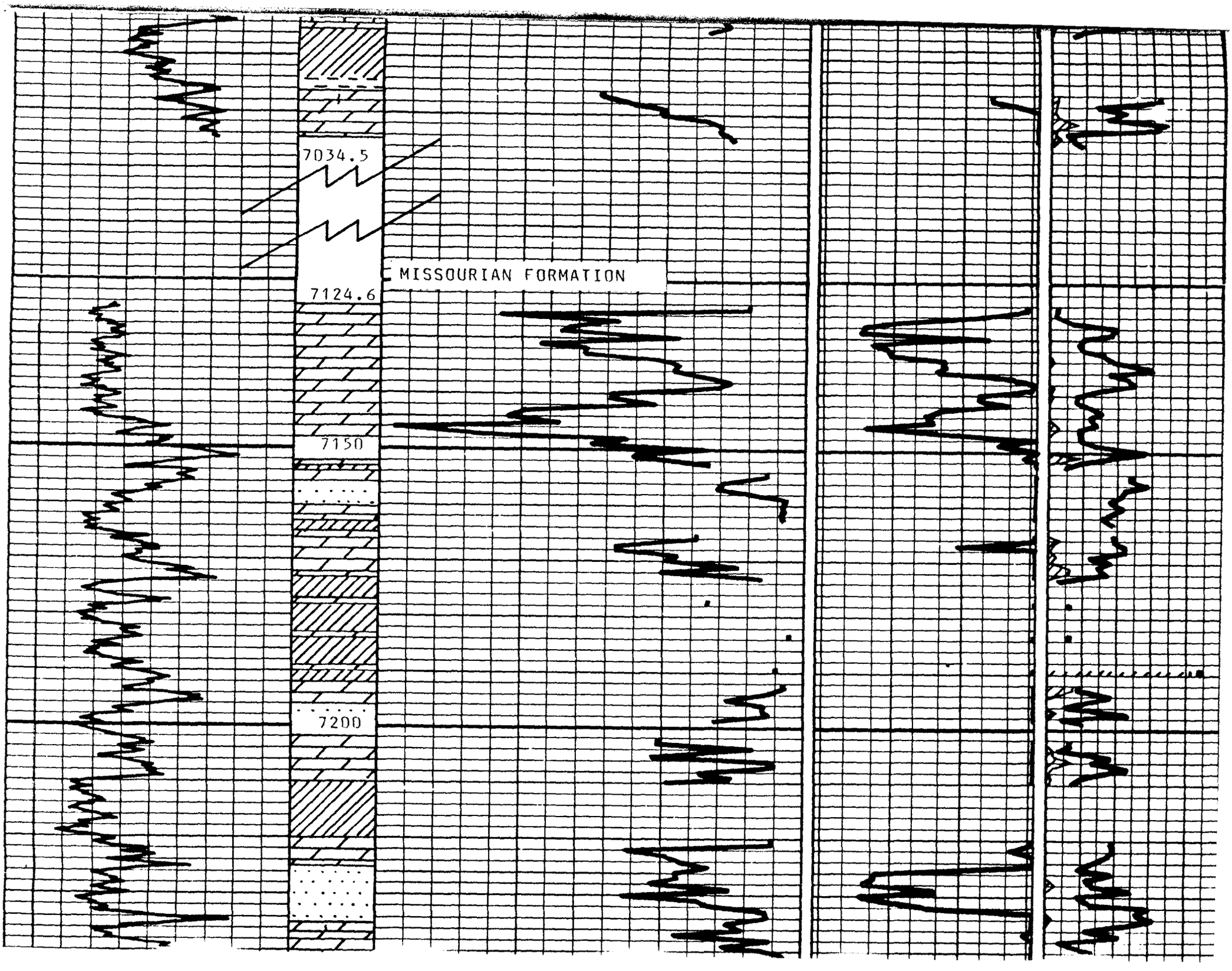
TRUE OIL COMPANY

NO. 11-17 MORRISON

B-1 INDUSTRIES, INC.

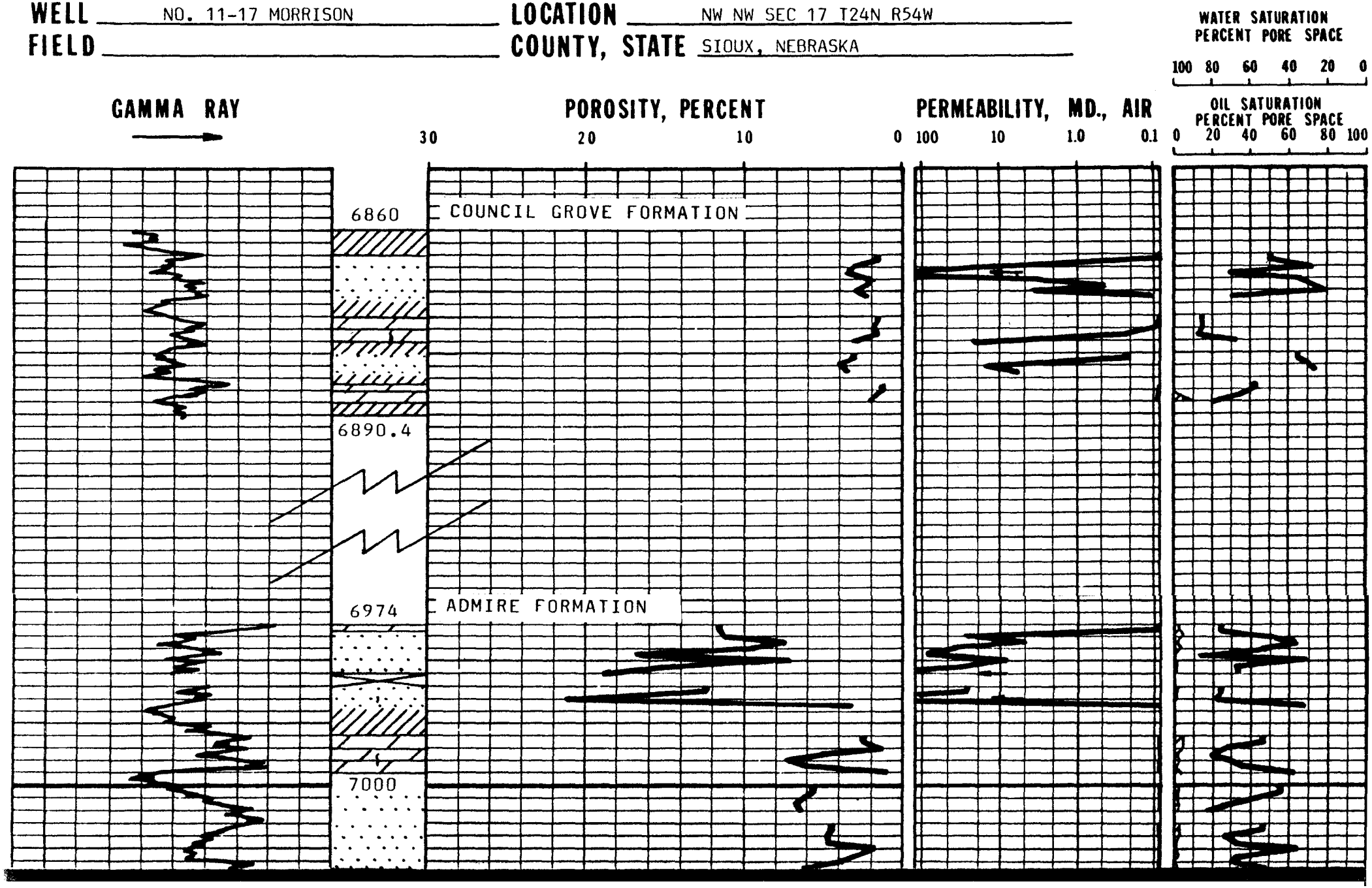

DES MOINES FORMATION
7250
7300
7350
7355.1


7034.5
MISSOURIAN FORMATION
7124.6
7150
7200

B-1 INDUSTRIES, INC.

CORE ANALYSIS GRAPH

COMPANY TRUE OIL COMPANY
MUD TYPE SALT SATURATED
DATE 10-28-87
FILE 10487
WELL NO. 11-17 MORRISON
LOCATION NW NW SEC 17 T24N R54W
FIELD
COUNTY, STATE SIOUX, NEBRASKA



B-1 INDUSTRIES, INC.
CORE ANALYSIS REPORT

COMPANY TRUE OIL COMPANY
FILE NO. 10487
WELL NO. 11-17 MORRISON
FORMATION DES MOINES
DATE 11-3-87
FIELD
CORE TYPE DIA CONV
ELEVATION 4619' KB
COUNTY SIOUX
MUD TYPE SALT SATURATED
ANALYST BP DH AH CG KB
STATE NEBRASKA
LOCATION NW NW SEC 17 T24N R54W

SAMP NO	DEPTH	PERMEABILITY HORIZ	PERMEABILITY VERT	POR %	OIL %	WATER %	GR DNS	DESCRIPTION	
	BOYLES LAW CORE ANALYSIS, PERMEABILITY TO AIR AT 1000psi NET OVERBURDEN								
	PERMEABILITY & POROSITY WERE RUN ON SALT FREE PLUGS								
213	7331-32	0.64		21.2	0.0	84.4	2.82	DOL TAN FXLN	
214	-33	0.65		21.3	0.3	87.8	2.82	DOL TAN FXLN	
215	-34	5.7		21.0	0.2	86.7	2.83	DOL TAN FXLN	VF
216	-35	2.0		23.9	0.3	87.6	2.83	DOL TAN FXLN CALC	VF
217	-36	0.01		9.4	0.0	91.5	2.88	DOL TAN VFXLN	VF
218	-37	0.29		14.5	0.0	80.8	2.86	DOL TAN VFXLN	VF
219	-38	0.28		9.3	0.6	93.9	2.87	DOL TAN VFXLN	VF
220	-39	0.13		7.1	0.7	87.7	2.86	DOL TAN VFXLN	
221	-40	0.19		11.0	0.0	77.1	2.87	DOL TAN XLN	
222	-41	0.29		14.1	0.6	88.1	2.88	DOL TAN XLN	
223	-42	0.07		11.5	0.0	86.2	2.84	DOL GRY XLN	
224	-43	0.01		7.7	0.0	89.6	2.76	DOL GRY XLN	VF
225	-44	0.25		12.9	0.0	96.5	2.86	DOL GRY VFXLN	VF
226	-45	1.7		13.7	0.0	76.7	2.83	DOL GRY VFXLN	
227	-46	0.01		7.1	0.0	90.9	2.85	DOL TAN XLN CALC	
228	-47	0.01		4.8	4.3	68.3	2.85	DOL TAN XLN	
229	-48	0.01		2.8	0.0	85.4	2.73	DOL TAN VFXLN	VF
230	-49	0.01		9.6	0.0	84.9	2.66	SS BRN FG	VF
231	-50	0.01		2.4	0.6	44.0	2.75	SS GRY FG SLTY DOL	
232	-51	0.01		4.8	0.0	77.8	2.83	DOL TAN VFXLN	
233	-52	0.15		4.5	1.0	69.9	2.85	DOL TAN VFXLN	
	7352-54							ANHYDRITE NO ANALYSIS	
234	7354-55.1	0.01		4.0	0.0	48.5	2.85	DOL GRY VFXLN	

B-1 INDUSTRIES, INC.
CORE ANALYSIS REPORT

COMPANY TRUE OIL COMPANY
FILE NO. 10487
WELL NO. 11-17 MORRISON
FORMATION DES MOINES
DATE 11-3-87
FIELD
CORE TYPE DIA CONV
ELEVATION 4619' KB
COUNTY SIOUX
MUD TYPE SALT SATURATED
ANALYST BP DH AH CG KB
STATE NEBRASKA
LOCATION NW NW SEC 17 T24N R54W

SAMP NO	DEPTH	PERMEABILITY HORIZ	PERMEABILITY VERT	POR %	OIL %	WATER %	GR DNS	DESCRIPTION	
	BOYLES LAW CORE ANALYSIS, PERMEABILITY TO AIR AT 1000psi NET OVERBURDEN								
	PERMEABILITY & POROSITY WERE RUN ON SALT FREE PLUGS								
186	7296-97	0.10		16.8	0.0	91.2	2.80	DOL GRY FXLN	
187	-98	0.64		19.0	0.0	76.5	2.85	DOL GRY FXLN	
188	-99	0.53		19.8	0.0	88.4	2.82	DOL GRY FXLN	
189	7299-00	0.02		10.5	0.0	84.5	2.84	DOL GRY XLN	VF
190	7300-01	0.01		8.1	4.0	64.0	2.84	DOL GRY XLN	
	7301-02							ANHYDRITE NO ANALYSIS	
191	-03	0.01		7.0	3.7	90.0	2.82	DOL GRY FXLN	
192	-04	0.01		5.2	1.3	86.6	2.85	DOL DRK GRY XLN	
193	-05	0.01		8.7	1.4	91.7	2.85	DOL DRK GRY XLN	
194	-06	0.01		7.7	0.9	75.4	2.82	DOL TAN XLN DNS ANHY INC	
	7306-09							SHALE & ANHY NO ANALYSIS	
195	-10	0.01		1.9	2.6	79.5	2.68	LS DRK GRY XLN	
196	-11	0.18		2.0	0.0	64.9	2.73	LS GRY XLN TR SS LAM	VF
197	-12	0.01		2.4	0.0	86.3	2.79	LS TAN DNS	
198	-13	1.0		18.7	0.0	92.9	2.85	DOL TAN FXLN	
199	-14	0.01		5.9	1.5	95.8	2.86	DOL TAN FXLN	VF
200	-15	0.23		5.7	0.0	97.2	2.86	DOL TAN FXLN	
201	-16	0.01		7.3	0.0	80.0	2.87	DOL TAN FXLN	
202	-17	0.07		9.8	0.0	58.2	2.87	DOL TAN VFXLN	
203	-18	0.43		17.0	0.4	95.1	2.84	DOL TAN VFXLN	
	7318-20							ANHYDRITE NO ANALYSIS	
204	-21	0.01		5.2	0.0	97.5	2.80	DOL DRK GRY VFXLN	
205	-22	0.01		1.7	0.0	88.8	2.70	LS TAN XLN	
206	-23	0.01		3.2	5.7	85.1	2.70	LS TAN XLN	
	7323-25							SHALE NO ANALYSIS	
207	-26	0.01		1.1	0.0	88.8	2.71	LS DRK GRY XLN	
208	-27	0.01		5.0	0.0	97.0	2.82	DOL DRK GRY XLN CALC	
209	-28	0.01		8.0	0.8	79.9	2.84	DOL TAN FXLN	
210	-29	0.01		11.3	0.6	81.3	2.84	DOL TAN FXLN	
211	-30	0.01		7.3	0.6	91.8	2.86	DOL TAN FXLN	VF
212	7330-31	0.21		16.5	0.0	90.4	2.83	DOL TAN FXLN	VF

B-1 INDUSTRIES, INC.
CORE ANALYSIS REPORT

COMPANY TRUE OIL COMPANY
WELL NO. 11-17 MORRISON
FIELD
COUNTY SIOUX
STATE NEBRASKA

FORMATION DES MOINES
CORE TYPE DIA CONV
MUD TYPE SALT SATURATED
LOCATION NW NW SEC 17 T24N R54W

FILE NO. 10487
DATE 11-3-87
ELEVATION 4619' KB
ANALYST BP DH AH CG KB

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	
158	7266-67	0.01		6.7	0.0	73.9	2.87	DOL TAN VFXLN	VF
159	-68	0.01		5.6	0.0	76.1	2.88	DOL TAN VFXLN	
160	-69	0.15		10.8	0.0	78.5	2.86	DOL TAN VFXLN	
161	-70	0.19		13.7	0.0	79.4	2.84	DOL GRY VFXLN	
162	-71	0.15		12.0	0.5	68.3	2.84	DOL GRY VFXLN	
163	-72	0.01		6.4	0.0	65.7	2.87	DOL GRY VFXLN	
164	-73	0.02		9.5	0.0	86.8	2.84	DOL GRY VFXLN	
165	-74	0.01		8.7	0.0	83.1	2.85	DOL GRY VFXLN	
166	-75	0.27		11.6	0.0	76.3	2.86	DOL GRY VFXLN	
167	-76	0.28		13.2	0.0	73.4	2.85	DOL GRY VFXLN	
168	-77	0.18		13.7	0.0	64.5	2.84	DOL GRY VFXLN	
169	-78	0.11		12.0	0.0	82.3	2.84	DOL GRY VFXLN	
170	-79	0.25		17.2	0.0	74.0	2.84	DOL GRY VFXLN	
171	-80	0.19		15.2	0.0	89.5	2.84	DOL GRY VFXLN	
172	-81	0.10		15.4	0.0	83.1	2.83	DOL GRY VFXLN	
173	-82	0.28		15.1	0.0	77.6	2.81	DOL GRY VFXLN	
174	-83	0.45		15.8	0.8	67.4	2.84	DOL TAN XLN	
175	-84	0.58		16.1	0.0	67.4	2.85	DOL TAN XLN	
176	-85	0.05		11.4	0.4	72.1	2.83	DOL TAN VFXLN ARG	
177	-86	0.01		7.2	0.0	89.8	2.81	DOL DRK GRY FXLN	
	7286-87							SHALE NO ANALYSIS	
178	-88	0.01		7.1	0.0	63.5	2.80	DOL DRK GRY FXLN	
179	-89	0.01		8.7	4.2	88.4	2.81	DOL DRK GRY FXLN	
180	-90	0.01		7.2	4.8	91.0	2.82	DOL DRK GRY FXLN	
	7290-91							SHALE NO ANALYSIS	
181	-92	0.01		9.8	3.0	78.6	2.82	DOL DRK GRY FXLN	
182	-93	0.01		9.7	0.0	81.0	2.82	DOL GRY FXLN	
183	-94	0.34		16.0	0.0	65.6	2.83	DOL GRY FXLN	
184	-95	0.01		5.6	0.0	68.8	2.82	DOL GRY FXLN	VF
185	7295-96	0.45		16.2	0.0	73.7	2.84	DOL GRY FXLN	VF

B-1 INDUSTRIES, INC.
CORE ANALYSIS REPORT

COMPANY TRUE OIL COMPANY FILE NO. 10487
WELL NO. 11-17 MORRISON FORMATION MISSOURIAN DATE 11-1-87
FIELD CORE TYPE DIA CONV ELEVATION 4619' KB
COUNTY SIOUX MUD TYPE SALT SATURATED ANALYST BP LJ AH KB
STATE NEBRASKA LOCATION NW NW SEC 17 T24N R54W

SAMP NO	DEPTH	PERMEABILITY HORIZ	PERMEABILITY VERT	POR %	OIL %	WATER %	GR DNS	DESCRIPTION
	BOYLES LAW CORE ANALYSIS, PERMEABILITY TO AIR AT 1000psi NET OVERBURDEN							
	PERMEABILITY & POROSITY WERE RUN ON SALT FREE PLUGS							
130	7229-30	34		12.7	0.0	83.3	2.69	SS GRY VFG
131	-31	8.0		7.4	0.0	76.1	2.72	SS GRY VFG
132	-32	3.5		6.7	0.0	40.5	2.72	SS GRY VFG
133	-33	0.03		2.7	0.0	48.0	2.74	SS GRY VF FN GR
134	-34	0.02		2.4	2.6	39.5	2.74	SS GRY VF FN GR
135	-35	0.01		5.6	0.0	60.2	2.76	SS GRY VF FN GR
136	-36	0.03		4.3	0.0	78.4	2.84	DOL GRY TAN VFXLN TR SS LAM
137	7236-37	0.11		9.3	0.0	57.3	2.83	DOL TAN VFXLN VF
								DES MOINES FORMATION
138	7237-38	0.01		2.2	0.0	96.1	2.81	DOL GRY VFXLN
139	-39	0.01		5.7	0.0	82.2	2.83	DOL GRY VFXLN
140	-40	0.01		2.6	0.0	73.2	2.83	DOL GRY VFXLN
141	-41	0.01		1.0	0.0	89.3	2.84	DOL GRY VFXLN
142	-42	0.01		2.1	0.0	45.1	2.84	DOL GRY VFXLN
143	-43	0.01		2.7	0.0	74.2	2.80	DOL GRY VFXLN
	7243-52							SHALE NO ANALYSIS
144	-53	0.01		8.0	13.1	57.6	2.81	DOL GRY VFXLN
145	-54	0.01		1.0	0.6	82.1	2.75	DOL GRY VFXLN
146	-55	0.01		7.1	0.0	76.3	2.87	DOL GRY VFXLN
147	-56	0.01		2.9	0.0	68.9	2.80	DOL GRY XLN SUC IN PT
148	-57	0.01		4.9	0.0	52.3	2.81	DOL GRY VFXLN
149	-58	0.01		3.0	0.0	77.3	2.83	DOL GRY XLN
150	-59	0.01		1.5	0.0	44.1	2.80	DOL GRY VFXLN
151	-60	0.04		2.9	5.2	53.1	2.83	DOL GRY XLN
152	-61	0.01		2.1	0.0	48.5	2.70	LS BRN DNS
153	-62	0.01		2.1	0.0	43.9	2.83	DOL DRK GRY XLN VF
154	-63	0.01		1.4	0.0	61.1	2.76	LS TAN XLN
155	-64	0.01		2.[illegible]	0.0	50.8	2.82	DOL GRY XLN
156	-65	0.01		6.1	0.0	90.5	2.83	DOL GRY FXLN
157	7265-66	0.01		3.	0.0	77.0	2.82	DOL TAN VFXLN VF

B-1 INDUSTRIES, INC.
CORE ANALYSIS REPORT

COMPANY TRUE OIL COMPANY
FILE NO. 10487
WELL NO. 11-17 MORRISON
FORMATION MISSOURIAN
DATE 11-1-87
FIELD
CORE TYPE DIA CONV
ELEVATION 4619' KB
COUNTY SIOUX
MUD TYPE SALT SATURATED
ANALYST BP LJ AH KB
STATE NEBRASKA
LOCATION NW NW SEC 17 T24N R54W

SAMP NO	DEPTH	PERMEABILITY HORIZ	PERMEABILITY VERT	POR %	OIL %	WATER %	GR DNS	DESCRIPTION
	BOYLES LAW CORE ANALYSIS, PERMEABILITY TO AIR AT 1000psi NET OVERBURDEN							
	PERMEABILITY & POROSITY WERE RUN ON SALT FREE PLUGS							
104	7183-84	0.01		1.0	0.0	89.0	2.87	DOL TAN FXLN
	7184-89							ANHYDRITE NO ANALYSIS
105	-90	0.01		2.0	84.1	14.0	2.84	DOL BRN FXLN
	7190-92							ANHYDRITE NO ANALYSIS
106	-93	0.01		1.5	16.4	82.1	2.81	DOL TAN XLN
107	-94	0.01		2.7	0.0	65.2	2.78	DOL TAN XLN
108	-95	0.01		5.7	0.0	82.5	2.80	DOL TAN XLN ANHY INC
109	-96	0.01		2.7	0.0	92.0	2.72	DOL GRY VFXLN ARG
110	-97	0.01		2.9	3.7	54.9	2.79	SS GRY FN MED GR DOL
111	-98	0.01		2.5	0.0	94.9	2.76	SS GRY FG DOL ANHY INC
112	-99	0.01		6.4	0.0	80.3	2.73	DOL TAN VFXLN ARG
	7199-7202							ANHYDRITE NO ANALYSIS
113	7202-03	0.01		10.3	0.0	87.9	2.83	DOL TAN FXLN ARG
114	-04	0.01		3.6	1.7	95.5	2.78	DOL BRN XLN TR VUG
115	-05	0.01		10.6	3.0	63.4	2.83	DOL TAN FXLN
116	-06	0.01		2.2	13.2	73.8	2.65	DOL BRN FXLN DNS SHLY
117	-07	0.01		2.0	1.2	53.2	2.86	DOL TAN FXLN
118	-08	0.02		7.3	0.0	68.9	2.72	DOL GRY FXLN
119	-09	0.01		5.0	1.0	82.1	2.73	DOL GRY FXLN ARG
120	-10	0.02		9.9	0.7	85.1	2.70	DOL LT DRK GRY VFXLN
	7210-20							ANHYDRITE NO ANALYSIS
121	-21	0.07		2.1	0.0	61.4	2.89	DOL TAN XLN
122	-22	0.19		12.5	0.0	61.5	2.83	DOL TAN XLN TR VUG
123	-23	0.01		9.5	0.0	66.1	2.84	DOL TAN XLN
124	-24	0.01		6.9	0.0	71.9	2.84	DOL TAN XLN
125	-25	0.01		6.9	0.0	83.8	2.84	DOL TAN XLN
126	-26	19		9.0	0.0	64.3	2.70	SS GRY VFG
127	-27	19		8.8	0.0	79.5	2.71	SS GRY VFG
128	-28	28		10.8	3.0	75.9	2.69	SS GRY VFG
129	7228-29	2.1		5.2	0.0	50.8	2.72	SS TAN VFG

B-1 INDUSTRIES, INC.
CORE ANALYSIS REPORT

COMPANY TRUE OIL COMPANY FILE NO. 10487
WELL NO. 11-17 MORRISON FORMATION MISSOURIAN DATE 11-1-87
FIELD CORE TYPE DIA CONV ELEVATION 4619' KB
COUNTY SIOUX MUD TYPE SALT SATURATED ANALYST BP LS AH KB
STATE NEBRASKA LOCATION NW NW SEC 17 T24N R54W

SAMP NO	DEPTH	PERMEABILITY HORIZ	PERMEABILITY VERT	POR %	OIL %	WATER %	GR DNS	DESCRIPTION
	BOYLES LAW CORE ANALYSIS, PERMEABILITY TO AIR AT 1000psi NET OVERBURDEN							
	PERMEABILITY & POROSITY WERE RUN ON SALT FREE PLUGS							
78	7145-46	27		29.1	6.2	84.0	2.82	DOL DRK BRN FXLN VUG
79	-47	2.2		23.3	0.0	82.3	2.80	DOL TAN VFXLN
80	-48	0.05		12.6	0.0	82.2	2.80	DOL GRY FXLN CALC
81	-49	0.30		15.2	0.0	74.2	2.79	DOL GRY FXLN CALC
82	-50	0.01		7.2	0.0	46.8	2.88	DOL GRY FXLN
83	-51	0.14		12.2	20.0	69.9	2.82	DOL TAN BRN XLN
84	-52	0.01		9.8	0.0	86.1	2.82	DOL DRK GRY SLN
85	-53	0.01		6.7	0.0	92.6	2.78	DOL DRK GRY XLN
	7153-54							ANHYDRITE NO ANALYSIS
86	-55	0.01		2.9	0.0	52.8	2.76	DOL LT DRK GRY XLN
87	-56	0.01		6.0	0.0	43.3	2.75	DOL GRY FXLN
88	-57	0.01		6.4	0.0	57.1	2.76	SS GRY FN GR DOL
89	-58	0.01		3.9	0.0	59.9	2.76	SS GRY FN GR DOL
90	-59	0.01		1.7	0.0	65.1	2.77	SS GRY FN GR DOL
91	-60	0.01		1.8	0.0	57.7	2.77	SS GRY VF FN GR DOL
92	-61	0.01		1.8	0.0	61.9	2.78	DOL GRY XLN
93	-62	0.01		1.9	0.0	69.0	2.78	DOL GRY XLN
94	-63	0.01		1.7	0.0	63.4	2.86	DOL GRY XLN
	7163-65							ANHYDRITE NO ANALYSIS
95	-66	0.01		7.8	6.7	60.5	2.80	DOL BRN FXLN TR VUG
96	-67	1.3		13.6	1.2	56.3	2.82	DOL TAN XLN
97	-68	0.02		13.3	0.0	55.1	2.81	DOL TAN XLN
98	-69	0.01		9.1	5.5	77.0	2.75	DOL TAN VFXLN
99	-70	0.01		10.0	0.0	66.4	2.81	DOL TAN FXLN
100	-71	0.01		4.6	11.7	71.5	2.87	DOL TAN XLN
101	-72	0.01		12.2	11.1	66.9	2.82	DOL LT BRN VFXLN
102	-73	0.01		3.0	0.0	96.9	2.75	DOL BRY VFXLN ARG
	7173-77							ANHYDRITE NO ANALYSIS
103	-78	0.01		6.7	0.0	89.2	2.79	DOL DRK BRN DNS
	7178-83							ANHYDRITE NO ANALYSIS

B-1 INDUSTRIES, INC.
CORE ANALYSIS REPORT

COMPANY TRUE OIL COMPANY — FILE NO. 10487
WELL NO. 11-17 MORRISON — FORMATION ADMIRE — DATE 10-28-87
FIELD — CORE TYPE DIA CONV — ELEVATION 4619' KB
COUNTY SIOUX — MUD TYPE SALT SATURATED — ANALYST BP DH AH KB
STATE NEBRASKA — LOCATION NW NW SEC 17 T24N R54W

SAMP NO	DEPTH	PERMEABILITY HORIZ	PERMEABILITY VERT	POR %	OIL %	WATER %	GR DNS	DESCRIPTION
	BOYLES LAW CORE ANALYSIS, PERMEABILITY TO AIR AT 1000psi NET OVERBURDEN							
	PERMEABILITY & POROSITY WERE RUN ON SALT FREE PLUGS							
49	7027-28	0.17		12.6	3.4	73.3	2.82	DOL TAN FXLN TR VUG VF
50	-29	0.01		10.2	0.7	58.9	2.83	DOL TAN XLN VUGGY VF
51	-30	0.01		10.6	3.5	67.3	2.84	DOL TAN VFXLN
52	-31	0.01		7.0	16.4	32.8	2.82	DOL BRN FXLN TR VUG
53	-32	0.01		6.1	3.8	38.0	2.84	DOL BRN FXLN TR VUG ANHY INC.
54	-33	0.01		6.2	1.1	91.4	2.70	DOL DRK GRY VFXLN SHLY
55	-34	0.01		5.5	5.4	85.7	2.71	DOL GRY FXLN
56	7034-34.5	0.01		5.1	0.0	82.1	2.72	DOL GRY VFXLN
	7034.5-7124.6		DRILLED TO MISSOURIAN FORMATION					
57	7124.6-25	0.28		4.0	0.0	95.6	2.88	DOL GRY SUC
58	7125-26	0.73		21.8	0.0	96.1	2.85	DOL GRY SUC
59	-27	16		13.3	0.0	88.9	2.84	DOL GRY SUC
60	-28	32		16.7	0.0	61.4	2.84	DOL GRY SUC CALC
61	-29	36		17.2	0.0	65.4	2.84	DOL GRY SUC
62	-30	0.48		9.0	0.0	81.8	2.85	DOL GRY XLN
63	-31	23		18.9	0.0	84.1	2.83	DOL GRY SUC
64	-32	13		15.5	0.4	80.8	2.83	DOL GRY SUC
65	-33	12		15.7	0.0	69.8	2.84	DOL GRY SUC
66	-34	1.8		10.5	0.5	64.5	2.84	DOL GRY SUC
67	-35	1.7		8.9	0.0	40.9	2.84	DOL GRY XLN SUC IN PT
68	-36	2.4		9.3	0.0	65.9	2.83	DOL GRY SUC
69	-37	0.18		7.0	0.0	54.0	2.83	DOL GRY XLN
70	-38	0.01		5.3	0.0	50.5	2.83	DOL GRY VFXLN
71	-39	0.11		6.3	1.1	70.9	2.84	DOL TAN VFXLN
72	-40	0.64		13.9	0.6	85.0	2.81	DOL TAN VFXLN
73	-41	0.64		13.9	0.6	85.0	2.81	DOL TAN VFXLN
74	-42	0.21		10.7	0.0	79.3	2.84	DOL TAN VFXLN
75	-43	2.3		20.2	0.0	70.9	2.82	DOL TAN VFXLN
76	-44	3.9		21.3	0.0	76.5	2.82	DOL TAN VFXLN
77	7144-45	2.6		17.3	0.0	74.0	2.83	DOL TAN VFXLN

B-1 INDUSTRIES, INC.
CORE ANALYSIS REPORT

COMPANY TRUE OIL COMPANY FILE NO. 10487
WELL NO. 11-17 MORRISON FORMATION ADMIRE DATE 10-29-87
FIELD CORE TYPE DIA CONV ELEVATION 4619' KB
COUNTY SIOUX MUD TYPE SALT SATURATED ANALYST BP DH AH KB
STATE NEBRASKA LOCATION NW NW SEC 17 T24N R54W

SAMP NO	DEPTH	PERMEABILITY HORIZ	PERMEABILITY VERT	POR %	OIL %	WATER %	GR DNS	DESCRIPTION	
	BOYLES LAW CORE ANALYSIS, PERMEABILITY TO AIR AT 1000psi NET OVERBURDEN								
	PERMEABILITY & POROSITY WERE RUN ON SALT FREE PLUGS								
25	6981-82	116		18.9	0.3	67.5	2.69	SS GRY VFG	
	6982-84							LOST RECOVERY	
26	-85	31		12.5	0.8	76.1	2.71	SS GRY VFG	
27	-86	122		21.2	0.9	79.1	2.67	SS GRY VFG	VF
28	-87	0.01		3.2	0.0	32.2	2.75	SS GRY VFG	
	6987-92							ANHYDRITE NO ANALYSIS	
29	-93	0.01		2.6	2.1	53.3	2.84	DOL TAN FXLN	
30	-94	0.01		1.6	2.4	72.9	2.81	DOL TAN FXLN	
31	-95	0.01		5.2	0.0	81.7	2.84	DOL TAN XLN ANHY INC	
32	-96	0.01		7.4	1.1	71.3	2.83	DOL TAN XLN ANHY INC	VF
33	-97	0.01		6.1	0.0	64.1	2.81	DOL TAN VFXLN	VF
34	-98	0.01		1.0	3.8	38.0	2.88	DOL TAN VFXLN	
	6998-7000							ANHYDRITE NO ANALYSIS	
35	7000-01	0.01		5.8	1.0	44.9	2.76	SS GRY VFG	
36	-02	0.01		6.1	0.0	59.9	2.77	SS GRY VFG	
37	-03	0.01		6.9	1.0	72.2	2.79	SS GRY VFG	
38	-04	0.01		6.6	1.0	83.5	2.74	SS TAN VF FG TR ANHY	
	7004-06							ANHYDRITE NO ANALYSIS	
39	-07	0.01		4.3	1.1	52.9	2.79	SS GRY TAN VFG ARG	
40	-08	0.01		4.6	1.2	73.0	2.75	SS GRY TAN VFG ARG	
41	-09	0.01		4.7	0.0	68.7	2.77	SS GRY VFG	
42	-10	0.01		1.9	0.0	35.8	2.78	SS GRY VFG	
43	-11	0.01		3.4	1.1	68.4	2.85	DOL TAN VFXLN	
44	-12	0.01		4.1	0.0	68.0	2.74	SS GRY VFG	
45	-13	0.01		6.2	0.8	54.1	2.72	SS GRY VFG	
46	-14	0.01		5.9	0.9	83.8	2.70	LS TAN FXLN	
47	-15	0.01		7.3	0.9	87.3	2.74	DOL DRK GRY FXLN SHLY	
	7015-24							ANHYDRITE NO ANALYSIS	
	7024-26							SHALE NO ANALYSIS	
48	7026-27	0.46		14.7	4.0	37.0	2.80	DOL TAN FXLN VUGGY	

B-1 INDUSTRIES, INC.
CORE ANALYSIS REPORT

COMPANY	TRUE OIL COMPANY			FILE NO.	10487
WELL	NO. 11-17 MORRISON	FORMATION	COUNCIL GROVE	DATE	10-29-87
FIELD		CORE TYPE	DIA CONV	ELEVATION	4619' KB
COUNTY	SIOUX	MUD TYPE	SALT SATURATED	ANALYST	BP DH AH KB
STATE	NEBRASKA	LOCATION	NW NW SEC 17 T24N R54W		

SAMP NO	DEPTH	PERMEABILITY HORIZ	PERMEABILITY VERT	POR %	OIL %	WATER %	GR DNS	DESCRIPTION
	BOYLES LAW CORE ANALYSIS, PERMEABILITY TO AIR AT 1000psi NET OVERBURDEN							
	PERMEABILITY & POROSITY WERE RUN ON SALT FREE PLUGS							
	6860-64							ANHYDRITE NO ANALYSIS
1	-65	0.01		1.8	0.0	50.0	2.74	SS GRY VF FG TR ANHY
2	-66	15		3.4	0.0	28.4	2.59	SS TAN VF FG SALT FL
3	-67	167		3.8	0.0	71.9	2.54	SS TAN VF FG SALT FL
4	-68	3.5		2.2	0.0	35.9	2.67	SS GRY VF MED GR
5	-69	0.49		2.3	0.0	26.7	2.67	SS TAN VF FG
6	-70	4.1		3.1	0.0	22.8	2.57	SS GRY TAN VF FG SALT FL
7	-71	0.11		2.2	0.0	70.3	2.68	SS GRY TAN VF FG
	6871-74							ANHYDRITE NO ANALYSIS
8	-75	0.03		1.8	0.0	86.8	2.79	DOL GRY DNS ANHY INC
9	-76	0.09		2.0	0.0	86.6	2.78	DOL TAN VFXLN
10	-77	0.24		1.8	0.0	89.3	2.79	DOL TAN VFXLN VF
11	-78	26		3.3	0.0	67.9	2.69	DOL TAN VFXLN SALT INC VF
	6878-80							ANHYDRITE NO ANALYSIS
12	-81	0.21		3.1	0.0	35.0	2.71	SS GRY VF FG
13	-82	16		4.1	0.0	29.6	2.62	SS GRY VF FG
14	-83	6.8		3.7	0.0	25.3	2.65	SS GRY VF FG
	6883-85							ANHYDRITE NO ANALYSIS
15	-86	0.01		1.6	0.0	59.0	2.84	DOL TAN XLN
16	-87	0.01		2.0	0.0	68.7	2.78	DOL DRK GRY VFXLN DNS
17	-88	0.01		2.1	8.0	80.2	2.86	DOL GRY VFXLN
	6888-90.4							ANHYDRITE NO ANALYSIS
	6890.4-6974		DRILLED TO ADMIRE FORMATION					
18	6974-75	0.01		11.6	2.0	75.0	2.80	DOL TAN XLN
19	-76	32		11.2	4.8	48.1	2.72	SS GRY VF FG DOL
20	-77	5.1		7.9	0.5	36.5	2.73	SS GRY VF FG
21	-78	43		9.8	1.4	55.7	2.71	SS GRY VF FG
22	-79	93		16.7	0.0	88.9	2.66	SS GRY VF MED GR
23	-80	8.9		7.2	0.0	32.6	2.73	SS GRY VFG
24	6980-81	45		15.5	0.3	69.5	2.69	SS GRY VFG