

OIL SHALE ASSAY REPORT

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GEOKINETICS INC.
582 NORTH VERNAL AVENUE
P. O. BOX 889
VERNAL, UTAH 84078

Geokinetics* 2-3
2-135-24E
WGB

Date: 11 JUN 82

Lab #: 820392 - GK-#6B-82

Project:

Core Hole: 2-3

Elevation: 6933.1

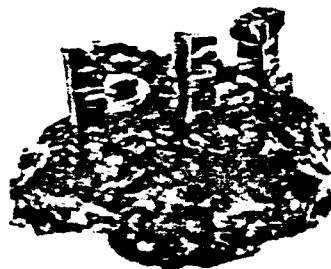
Location:

Remarks: 20 SAMPLES; AIR-DRIED

Sample Number	Client ID	Gallons/Ton		Weight Percent				Specific Gravity 60°/60°F	Tend to Coke
		Oil	Water	Oil	Water	Spent Shale	Gas+ Loss		
1	30.0 - 31.0	4.7a	1.7	1.8	.7	96.9	.6		N
2	31.0 - 32.0	14.0	2.2	5.3	.9	92.3	1.5	.904	N
3	32.0 - 33.0	13.0	2.4	4.9	1.0	92.8	1.3	.906	N
4	33.0 - 34.0	34.2	3.1	12.9	1.3	83.1	2.7	.908	N
5	34.0 - 35.0	14.3	3.1	5.4	1.3	92.0	1.3	.915	N
6	35.0 - 36.0	12.7	2.2	4.8	.9	93.1	1.2	.910	N
7	36.0 - 37.0	9.8	2.4	3.7	1.0	94.4	.9	.910	N
8	37.0 - 38.0	16.3	3.8	6.2	1.6	90.9	1.3	.917	N
9	38.0 - 39.0	26.0	4.1	10.0	1.7	86.4	1.9	.921	N
10	39.0 - 40.0	28.3	2.5	10.7	1.1	85.9	2.3	.910	N
11	40.0 - 41.0	24.2	2.6	9.2	1.1	87.6	2.1	.909	N
12	41.0 - 42.0	46.5	2.5	17.3	1.0	78.4	3.2	.893	N
13	42.0 - 43.0	42.7	3.3	16.0	1.4	79.0	3.6	.900	N
14	43.0 - 44.0	21.5	2.4	8.1	1.0	89.1	1.9	.896	N
15	44.0 - 45.0	17.3	2.6	6.6	1.1	90.3	2.1	.909	N
16	45.0 - 46.0	11.3	2.6	4.3	1.1	93.1	1.5	.915	N
17	46.0 - 47.0	13.5	2.4	5.2	1.0	92.3	1.6	.917	N
18	47.0 - 48.0	22.0	1.9	8.3	.8	88.9	2.0	.910	N
19	48.0 - 49.0	12.4	1.9	4.7	.8	93.1	1.4	.912	N
20	49.0 - 50.0	12.2	1.9	4.6	.8	93.2	1.4	.911	N

Coking Tendency of Spent Shale:
N=none S=slight M=moderate H=heavy

a = Specific gravity estimated @ 0.920



Dickinson Laboratories, Inc.
COAL ANALYSTS

SHALE REEVAL REPORT

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GEOKINETICS, INC.
582 NORTH VERNAL AVE.
VERNAL, UT 84078

Date: 07 MAY 82

Lab #: 820305 - GK #4-82

Project: W.D. 2-3

Core Hole: 2-3

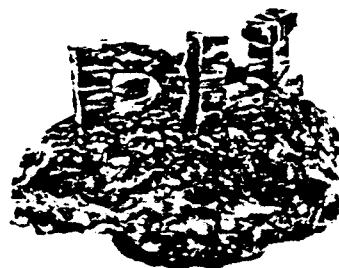
Elevation:

Location:

Remarks: 78 SAMPLES; AIR DRIED.

Sample Number	Client ID	Gallons/Ton		Weight Percent				Specific Gravity 60°/60°F	Tend to Coke
		Oil	Water	Oil	Water	Spent Shale	Gas+ Loss		
1	50.0 - 51.0	7.6	3.4	2.9	1.4	94.7	1.0	.920	N
2	51.0 - 52.0	7.8	3.4	3.0	1.4	94.7	.9	.916	N
3	52.0 - 53.0	8.0	1.7	3.0	.7	95.5	.8	.906	N
4	53.0 - 54.0	17.7	2.2	6.7	.9	91.0	1.4	.910	N
5	54.0 - 55.0	40.3	3.1	15.3	1.3	80.2	3.2	.912	N
6	55.0 - 56.0	21.0	1.7	7.9	.7	89.7	1.8	.896	N
7	56.0 - 57.0	23.6	1.7	8.9	.7	88.3	2.1	.903	N
8	57.0 - 58.0	32.8	2.0	12.5	.9	84.3	2.3	.913	N
9	58.0 - 59.0	41.7	1.9	15.7	.8	80.8	2.7	.902	S
10	59.0 - 60.0	59.7	3.2	22.4	1.3	72.3	4.0	.898	S
11	60.0 - 61.0	67.9	4.1	25.6	1.7	67.4	5.3	.903	M
12	61.0 - 62.0	67.7	3.7	25.4	1.5	67.9	5.2	.899	M
13	62.0 - 63.0	47.0	2.2	17.6	.9	78.0	3.5	.899	S
14	63.0 - 64.0	46.2	3.5	17.6	1.5	78.0	2.9	.916	N
15	64.0 - 65.0	17.2	1.7	6.6	.7	91.3	1.4	.916	N
16	65.0 - 66.0	29.4	1.9	11.2	.8	86.0	2.0	.915	N
17	66.0 - 67.0	22.4	1.7	8.5	.7	89.1	1.7	.915	N
18	67.0 - 68.0	26.7	1.4	10.1	.6	87.7	1.6	.904	N
19	68.0 - 69.0	50.6	3.1	19.1	1.3	76.5	3.1	.905	N
20	69.0 - 70.0	24.3	2.6	9.1	1.1	88.1	1.7	.899	N
21	70.0 - 71.0	32.1	2.2	12.0	.9	84.7	2.4	.899	N
22	71.0 - 72.0	14.5	1.4	5.5	.6	92.8	1.1	.907	N
23	72.0 - 73.0	15.5	1.4	5.9	.6	92.1	1.4	.911	N
24	73.0 - 74.0	36.5	2.9	13.9	1.2	82.0	2.9	.913	S
25	74.0 - 75.0	14.4	2.6	5.5	1.1	92.0	1.4	.915	N

Coking Tendency of Spent Shale:
N=none S=slight M=moderate H=heavy



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COAL ANALYSTS

P.O. BOX 12006 • EL PASO TEXAS 79912 • (915) 584-9494

OIL SHALE ASSAY REPORT

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GEOKINETICS, INC.
582 NORTH VERNAL AVE.
VERNAL, UT 84078

Date: 07 MAY 82

Lab #: 820305 - GK #4-82

Project: W.D. 2-3

Core Hole: 2-3

Elevation:

Location:

Remarks: 78 SAMPLES; AIR DRIED.

Sample Number	Client ID	Gallons/Ton		Weight. Percent				Specific Gravity 60°/60°F	Tend to Coke
		Oil	Water	Oil	Water	Spent Shale	Gas+ Loss		
26	75.0 - 76.0	8.9	2.4	3.4	1.0	94.6	1.0	.916	N
27	76.0 - 77.0	10.5	1.2	4.0	.5	94.4	1.1	.918	N
28	77.0 - 78.0	14.2	1.4	5.4	.6	92.9	1.1	.911	N
29	78.0 - 79.0	21.4	1.2	8.0	.5	90.0	1.5	.894	N
30	79.0 - 80.0	16.9	1.2	6.4	.5	91.8	1.3	.900	N
31	80.0 - 81.0	22.1	1.7	8.3	.7	89.4	1.6	.904	N
32	81.0 - 82.0	26.6	1.7	10.0	.7	87.4	1.9	.899	N
33	82.0 - 83.0	14.1	1.7	5.4	.7	92.6	1.3	.914	N
34	83.0 - 84.0	9.2	1.0	3.5	.4	95.3	.8	.919	N
35	84.0 - 85.0	10.6	1.2	4.1	.5	94.4	1.0	.916	N
36	85.0 - 86.0	22.6	1.9	8.7	.8	88.6	1.9	.918	N
37	86.0 - 87.0	9.3	1.2	3.5	.5	95.4	.6	.915	N
38	87.0 - 88.0	6.2	1.2	2.4	.5	96.6	.5	.915	N
39	88.0 - 89.0	4.2 a	1.2	1.6	.5	97.6	.3	.920	N
40	89.0 - 90.0	8.5	1.7	3.2	.7	95.5	.6	.907	N
41	90.0 - 91.0	7.4	4.6	2.8	1.9	94.9	.4	.912	N
42	91.0 - 92.0	21.2	2.4	8.1	1.0	89.5	1.5	.912	N
43	92.0 - 93.0	17.3	1.7	6.6	.7	91.6	1.1	.913	N
44	93.0 - 94.0	6.4	1.4	2.4	.6	96.5	.5	.902	N
45	94.0 - 95.0	23.7	2.2	9.1	.9	88.3	1.7	.919	N
46	95.0 - 96.0	3.4 a	1.2	1.3	.5	98.0	.2	.920	N
47	96.0 - 97.0	9.9	3.8	3.8	1.6	93.8	.8	.919	N
48	97.0 - 98.0	1.5 a	7.2	.6	3.0	96.3	.1	.920	N
49	98.0 - 99.0	5.6	4.1	2.1	1.7	95.6	.6	.911	N
50	99.0 - 100.0	4.0 a	1.4	1.5	.6	97.6	.3	.920	N

Coking Tendency of Spent Shale:

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OIL SHALE ASSAY REPORT

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Elevation:

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Sample Number	Client ID	Gallons/Ton		Weight Percent				Specific Gravity 60°/60°F	Tend to Coke
		Oil	Water	Oil	Water	Spent Shale	Gas+ Loss		
51	100.0 - 101.0	6.2	1.2	2.4	.5	96.7	.4	.910	N
52	101.0 - 102.0	2.0 a	2.9	.8	1.2	97.8	.2	.920	N
53	102.0 - 103.0	12.1	1.7	4.6	.7	93.8	.9	.907	N
54	103.0 - 104.0	6.9	1.2	2.6	.5	96.1	.8	.901	N
55	104.0 - 105.0	18.2	1.4	6.8	.6	91.1	1.5	.899	N
56	105.0 - 106.0	7.9	.7	3.0	.3	96.1	.6	.905	N
57	106.0 - 107.0	5.5	2.9	2.1	1.2	96.0	.7	.903	N
58	107.0 - 108.0	3.6 a	2.4	1.4	1.0	97.2	.4	.920	N
59	108.0 - 109.0	5.7	3.1	2.2	1.3	95.8	.8	.900	N
60	109.0 - 110.0	3.9 a	4.6	1.5	1.9	96.2	.4	.920	N
61	110.0 - 111.0	3.2 a	2.9	1.2	1.2	97.3	.3	.920	N
62	111.0 - 112.0	5.8	1.4	2.2	.6	96.7	.5	.902	N
63	112.0 - 113.0	12.6	2.2	4.8	.9	93.4	1.0	.902	N
64	113.0 - 114.0	8.6	4.3	3.2	1.8	94.4	.6	.889	N
65	114.0 - 115.0	.9 a	4.1	.4	1.7	97.6	.3	.920	N
66	115.0 - 116.0	2.2 a	5.8	.9	2.4	96.2	.5	.920	N
67	116.0 - 117.0	1.9 a	1.9	.7	.8	98.2	.3	.920	N
68	117.0 - 118.0	2.2 a	2.6	.8	1.1	97.7	.4	.920	N
69	118.0 - 119.0	21.0	.7	8.0	.3	90.7	1.0	.917	N
70	119.0 - 120.0	21.6	.5	8.3	.2	90.8	.7	.916	N
71	120.0 - 121.0	6.0	1.0	2.3	.4	96.7	.6	.915	N
72	121.0 - 122.0	3.8 a	.7	1.5	.3	97.5	.7	.920	N
73	122.0 - 123.0	0.0	1.5	0.0	.6	99.3	.1	.920	N
74	123.0 - 124.0	0.0	1.3	0.0	.5	99.4	.1	.920	N
75	124.0 - 125.0	8.7	.7	3.3	.3	96.0	.4	.910	N

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Core Hole: 2-3

Elevation:

Location:

Remarks: 78 SAMPLES; AIR DRIED.

Sample Number	Client ID	Gallons/Ton		Weight Percent				Specific Gravity 60°/60°F	Tend to Coke
		Oil	Water	Oil	Water	Spent Shale	Gas+ Loss		
76	125.0 - 126.0	2.2 a	1.2	.8	.5	98.4	.3	.920	N
77	126.0 - 127.0	10.4	.5	4.0	.2	95.4	.5	.913	N
78	127.0 - 128.0	2.8 a	1.0	1.1	.4	98.2	.3	.920	N

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