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**ROCK-EVAL DATA OF THE CRETACEOUS
COLORADO GROUP, WESTERN CANADA
SEDIMENTARY BASIN**

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Introduction

The Cretaceous Colorado Group of the Western Canada Sedimentary Basin is a wedge of dominantly marine shale that extends from the foothills of the Rocky Mountains to the Manitoba Escarpment. One aspect of a regional study of these sediments is to evaluate their potential as source rocks for hydrocarbons. This report documents the results of Rock-Eval pyrolysis analyses of approximately 350 samples collected from 34 cores and 4 outcrop locations throughout the basin (Table 1).

Geological Background

The interval of study comprises the Upper Albian to Middle Turonian sediments of the larger Cretaceous Colorado Group (Fig. 1). This interval was selected because of the availability of core and the occurrence of two regional wireline markers; the Fish Scales Marker Bed and the Second White Speckled Shale. The initial work of this study has resulted in a redefinition of the regional stratigraphy of this interval (Bloch et al., 1993). Four formations were identified using sedimentological, geochemical and biostratigraphic criteria. Most of the data presented herein are from those formations: in ascending order, the Westgate, Fish Scales, Belle Fourche and Second White Specks (Fig. 1). Other data are from units above or below this interval, or equivalent Blackstone Formation in the foothills (Stott, 1963). Some of this data is included in Bloch et al. (1993) but this report provides additional data and a compilation of the complete Rock-Eval data set generated during the course of this study.

Methods

The Rock - Eval pyrolysis technique used at the GSC in Calgary is described in detail elsewhere (Macauley et al., 1985). Table 2 provides replicate analyses of laboratory standards and indicates the precision and accuracy of the analyses. All samples were run in duplicate and the averaged results are given in Table 3. The data in Table 3 are arranged by core. The formation corresponding to each sample is given in the first column and the depth, measured fROm the Kelly Bushing, is provided in column 2. For the outcrop samples, the depth is given in meters from a datum at or near the base of the section. This datum is the basal contact of the Blackstone Formation with the underlying Mannville equivalent rocks, where exposed, or the first exposure of the Blackstone Formation where the basal contact is covered.

References

- Bloch, J., Schröder - Adams, C., Leckie, D.A., McIntyre, D.J., Craig, J., and Staniland, M. 1993. Revised stratigraphy of the lower Colorado Group (Albian to Turonian), Western Canada. Bulletin of Canadian Petroleum Geology v. 42, no.3 (in press).
- Macauley, G., Snowdon, L.R., and Ball, F.D., 1985. Geochemistry and geological factors governing exploitation of selected Canadian oil shale deposits. Geological Survey of Canada Paper 85-13 65p.
- Stott, D.F., 1963. The Cretaceous Alberta Group and equivalent rocks, Rocky Mountain Foothills, Alberta. Geological Survey of Canada Memoir 317 306p.

Figure Caption

Figure 1. Stratigraphy of the Albian to Turonian portion of the Colorado Group after Bloch et al. (1993).

CRETACEOUS		PERIOD	SERIES
LOWER		UPPER	STAGE
ALBIAN	CENOMANIAN	TURONIAN	
FORT ST. JOHN GROUP		SMOKY GP.	
	SHAFTESBURY FM.	KASKAPAU FM.	
	DUNVEGAN FM.	SECOND WHITE SPECKS FM.	
COLORADO GROUP			
LOWER		UPPER	
		BELLE FOURCHE FM.	
		FISH SCALES FM.	
		WESTGATE FM.	
		VIKING FM.	
		JOLI FOU FM.	
		BASAL COLORADO MEMBER	
COLORADO GROUP			
LOWER		UPPER	
		BELLE FOURCHE FM.	
		FISH SCALES FM.	
		WESTGATE FM.	
		VIKING FM.	
		SPINNEY HILL FM.	
		PENSE FM.	

Figure 1. Stratigraphy of the Albian to Turonian portion of the Colorado Group
after Bloch et al. (1993)

TABLE 1 - LIST OF CORE AND OUTCROP LOCATIONS

LOCATION	CORE NAME	GSC #
05-09-72-08 W6	IMPERIAL WEMBLEY	C167134
16-01-66-22 W5	AMOCO BIGSTONE	C167143
05-01-77-20 W5	IMPERIAL KATHLEEN #1	C167135
10-25-65-20 W5	SABINE ET AL IOSEGUN	C167144
10-05-53-20 W5	H.B. GALLOWAY	C167145
09-09-56-19 W5	HCS ET AL BEAVER CREEK	C167147
04-13-54-18 W5	TEXEX EDSON	C167146
14-29-13-29W4	BRASCAN ET AL OXLEY	
10-36-11-29W4	AMTROG GULF CLARESHOLM	
06-07-12-28W4	CANADIAN SUPERIOR OXLEY	
14-29-11-28W4	DOME ET AL CLARESHOLM	
06-30-13-27W4	MLC DEKALB CLARESHOLM	C179967
06-29-13-27W4	CAN HUNTER ET AL CLARESHOLM	C179966
04-08-13-27W4	SINCLAIR E. MATHEWS	
06-32-13-27W4	CAN HUNTER ET AL CLARESHOLM	
06-21-55-25 W4	AJAX MORINVILLE	C167142
08-25-12-24W4	PENN WEST ET AL BARONS	
11-21-12-23 W4	MELAAR BARONS	C167150
16-10-12-23W4	BARONS SUPERIOR #1	
10-34-42-22 W4	LCD ET AL BASHAW	C167138
06-16-11-22W4	CAN HUNTER KEHO	C179965
06-34-10-22W4	CAN HUNTER KIPP	
06-16-06-22 W4	GULF MOHAWK BLOOD	C167149
07-12-42-21 W4	LCM ET AL BUFF LAKE NORTH	C167139
11-12-06-16 W4	AMOCO CONRAD	C167148
06-22-11-06 W4	G. BASIN BUX MEDICINE HAT	C179954
06-34-30-08 W4	AMOCO B-1 YOUNGSTOWN	C167141
07-14-01-05 W4	PACIFIC AMOCO SAPPHIRE	C179953
10-35-45-02 W4	ANDERSON HUSKY ROROS	C167136
06-18-45-01 W4	ANDERSON ET AL RIBSTONE	C167137
10-25-01-27W3	SASKOIL WILLOW CREEK	C179958
11-16-35-08W3	C.M.S. VANSCOY	C179956
05-22-34-01W3	U.S. BORAX & CHEMICAL	C179955
11-36-22-01W2	S.W.P BREDENBURY	C179957
OUTCROP		
ELK CREEK 83B/4 UTM-735855 KANANASKIS LAKES 82J UTM-68885663	CRIPPLE CREEK HIGHWOOD RIVER	C190522 to C190614 C170001 to C170050 and C190451 to C190456
LANGFORD CREEK 82J/1 UTM-850434 FERNIE 82/G UTM-70755475	BRUIN CREEK MILL CREEK	C190477 to C190521 C190457 to C190471

TABLE 2 - ROCK-EVAL STANDARD ANALYSES

STD #	QTY	TMAX	S 1	S 2	S 3	P I	S2/S3	P C	TOC	H I	O I
1	100.1	432	0.3	3.64	0.66	0.08	5.51	0.32	1.53	237	43
1	100	435	0.28	3.49	0.75	0.07	4.65	0.31	1.73	201	43
1	99.9	434	0.27	3.28	0.91	0.08	3.6	0.29	1.53	214	59
1	100.2	435	0.28	3.71	0.68	0.07	5.45	0.33	1.56	237	43
1	99.9	435	0.33	3.77	0.68	0.08	5.54	0.34	1.56	241	43
1	100.1	435	0.3	3.74	0.66	0.07	5.66	0.33	1.52	246	43
1	100	434	0.31	4.55	0.66	0.06	6.89	0.4	1.65	275	40
1	99.7	432	0.29	3.47	0.86	0.08	4.03	0.31	1.53	226	56
1	100	432	0.31	3.74	0.66	0.08	5.66	0.33	1.56	239	42
1	99.8	436	0.29	3.63	0.61	0.07	5.95	0.32	1.50	242	40
1	99.9	435	0.3	3.7	0.65	0.07	5.69	0.33	1.48	250	43
1	100	434	0.31	3.67	0.62	0.08	5.91	0.33	1.52	241	40
1	100.1	432	0.29	3.58	0.8	0.08	4.47	0.32	1.52	235	52
1	99.9	433	0.23	3.9	0.83	0.06	4.69	0.34	1.59	245	52
1	99.9	426	0.36	4.37	0.69	0.08	6.33	0.39	1.57	278	43
1	100	432	0.34	3.61	0.63	0.09	5.73	0.32	1.52	237	41
1	100	434	0.35	3.74	0.64	0.09	5.84	0.34	1.67	223	38
1	99.9	430	0.34	3.8	0.73	0.08	5.2	0.34	1.51	251	48
1	100.1	433	0.33	3.76	0.57	0.08	6.59	0.34	1.59	236	35
1	100.1	433	0.31	3.63	0.77	0.08	4.71	0.32	1.57	231	49
1	100.2	429	0.34	4	0.76	0.08	5.26	0.36	1.62	246	46
1	99.9	432	0.32	3.88	0.82	0.08	4.73	0.35	1.58	245	51
1	100	432	0.34	3.64	0.75	0.09	4.85	0.33	1.52	239	49
1	100.2	433	0.37	3.84	0.62	0.09	6.19	0.35	1.53	250	40
1	99.8	431	0.37	4.01	0.64	0.08	6.26	0.36	1.62	247	39
1	100.1	432	0.33	3.75	0.8	0.08	4.68	0.34	1.54	243	51
1	100.1	432	0.32	4.21	0.79	0.07	5.32	0.37	1.51	278	52
1	100.3	431	0.34	3.65	0.61	0.09	5.98	0.33	1.52	240	40
1	100	430	0.35	3.8	0.68	0.08	5.58	0.34	1.53	248	44
1	99.9	431	0.35	3.6	0.66	0.09	5.45	0.32	1.51	238	43
1	100.1	433	0.33	3.84	0.59	0.08	6.5	0.34	1.44	266	40
1	100	431	0.36	4.09	0.55	0.08	7.43	0.37	1.67	244	32
1	100	432	0.32	3.65	0.56	0.08	6.51	0.33	1.47	248	38
1	99.9	432	0.38	3.92	0.79	0.09	4.96	0.35	1.62	241	48
1	100.3	431	0.34	4.05	0.47	0.08	8.61	0.36	1.73	234	27
1	100	432	0.36	3.71	0.57	0.09	6.5	0.33	1.63	227	34
1	100.1	430	0.36	3.8	0.61	0.09	6.22	0.34	1.64	231	37
1	100.2	430	0.34	3.62	0.85	0.09	4.25	0.33	1.54	235	55
1	100.1	434	0.32	3.15	0.64	0.09	4.92	0.28	1.45	217	44
1	99.9	435	0.32	3.21	0.72	0.09	4.45	0.29	1.47	218	48
1	100.1	429	0.34	3.93	0.57	0.08	6.89	0.35	1.55	253	36
1	100.2	431	0.29	3.21	0.53	0.08	6.05	0.29	1.33	241	39
1	100.2	430	0.35	4.08	0.67	0.08	6.08	0.36	1.62	251	41
1	100.2	432	0.36	4.21	0.64	0.08	6.57	0.38	1.56	269	41
1	99.8	430	0.39	3.77	0.67	0.09	5.62	0.34	1.59	237	42

TABLE 2 - ROCK-EVAL STANDARD ANALYSES

STD #	QTY	TMAX	S 1	S 2	S 3	P I	S2/S3	P C	TOC	H I	O I
1	100	431	0.34	3.3	0.67	0.09	4.92	0.3	1.53	215	43
1	100.4	429	0.34	3.46	0.69	0.09	5.01	0.31	1.58	218	43
1	100	430	0.36	3.73	0.73	0.09	5.1	0.34	1.59	234	45
1	100.2	432	0.31	3.89	0.93	0.07	4.18	0.35	1.66	234	56
1	100.1	431	0.28	3.87	0.83	0.07	4.66	0.34	1.54	251	53
1	100	430	0.33	4.08	0.92	0.07	4.43	0.36	1.53	266	60
1	100.1	432	0.33	3.9	0.58	0.08	6.72	0.35	1.53	254	37
1	100.2	432	0.33	3.92	0.64	0.08	6.12	0.35	1.52	257	42
1	99.8	432	0.31	3.65	0.79	0.08	4.62	0.33	1.44	253	54
1	100.3	433	0.27	3.91	0.87	0.06	4.49	0.34	1.54	253	56
1	100.2	429	0.3	3.87	0.85	0.07	4.55	0.34	1.51	256	56
1	99.8	435	0.32	3.56	0.66	0.08	5.39	0.32	1.47	242	44
1	100.2	433	0.31	3.8	0.64	0.08	5.93	0.34	1.63	233	39
1	100.1	432	0.3	3.86	0.88	0.07	4.38	0.34	1.49	259	59
MEAN		432	0.32	3.76	0.70	0.08	5.52	0.34	1.55	242	44
STD DEV		1.94	0.03	0.26	0.10				0.07		
STD-2	20.2	452	1.33	12.92	1.33	0.09	9.71	1.18	6.46	200	20
STD-2	20.0	450	1.05	17.60	4.40	0.06	4.00	1.55	6.16	285	71
STD-2	20.7	446	1.06	14.10	1.11	0.07	12.70	1.26	6.15	229	18
STD-2	20.6	447	0.97	15.29	1.26	0.06	12.13	1.35	6.32	241	19
STD-2	101.1	439	1.63	20.08	0.99	0.08	20.28	1.80	7.00	286	14
STD-2	20.2	449	0.99	13.11	1.23	0.07	10.65	1.17	6.15	213	20
STD-2	100.1	440	1.69	20.51	1.02	0.08	20.10	1.85	7.15	286	14
STD-2	102.5	439	1.74	21.25	0.79	0.08	26.89	1.91	7.41	286	10
STD-2	101.6	441	1.55	20.54	1.01	0.07	20.33	1.84	7.19	285	14
STD-2	101.0	439	1.87	20.89	0.97	0.08	21.53	1.89	7.18	290	13
STD-2	20.8	452	1.15	12.16	1.00	0.09	12.16	1.10	6.36	191	15
STD-2	20.9	447	1.33	14.88	0.38	0.08	39.15	1.35	6.40	232	5
STD-2	20.4	450	1.22	13.62	0.53	0.08	25.69	1.23	6.20	219	8
STD-2	20.4	446	0.83	14.01	1.22	0.06	11.48	1.23	6.59	212	18
STD-2	20.6	447	0.87	15.72	1.74	0.05	9.03	1.38	6.51	241	26
STD-2	20.2	449	0.94	15.09	1.13	0.06	13.35	1.33	6.28	240	17
STD-2	20.5	449	0.97	14.53	0.97	0.06	14.97	1.29	6.29	231	15
STD-2	100.0	440	1.69	20.17	0.87	0.08	23.18	1.82	6.96	289	12
STD-2	100.4	438	1.57	21.42	1.26	0.07	17.00	1.91	7.02	305	17
STD-2	100.0	441	1.67	20.32	1.16	0.08	17.51	1.83	7.02	289	16
STD-2	20.0	449	1.10	12.85	0.80	0.08	16.06	1.16	6.17	208	12
STD-2	19.6	449	1.17	16.58	3.82	0.07	4.34	1.47	6.36	260	60
MEAN		445	1.29	16.71	1.32	0.07	16.47	1.50	6.61	251	20
STD DEV		5	0.32	3.21	0.93				0.41		

TABLE 3 - ROCK EVAL DATA

FORMATION	DEPTH (m)	QTY	TMAX	S 1	S 2	S 3	P I	S2/S3	P C	TOC	H I	O I
05-09-72-08 W6 C167134-1-43												
WESTGATE	1513.64	99.9	441	1.06	5.21	0.52	0.17	10.11	0.52	3.14	166	16
WESTGATE	1511.50	100.4	438	1.46	3.60	0.46	0.29	8.00	0.42	3.26	110	14
WESTGATE	1510.28	100.1	439	0.99	3.22	0.41	0.24	7.84	0.35	2.05	157	20
WESTGATE	1507.24	99.8	439	1.13	2.64	0.41	0.30	6.52	0.31	2.34	113	17
WESTGATE	1504.19	99.7	439	1.01	2.63	0.30	0.28	8.94	0.30	2.70	97	11
WESTGATE	1501.14	100.4	443	0.60	2.21	0.23	0.22	9.89	0.23	2.19	101	10
WESTGATE	1498.09	100.0	447	0.54	2.20	0.25	0.20	8.82	0.23	1.88	117	13
WESTGATE	1495.04	100.1	441	0.52	1.80	0.22	0.23	8.16	0.19	2.09	86	10
WESTGATE	1494.13	99.7	444	0.52	3.12	0.25	0.15	12.72	0.30	2.12	147	11
WESTGATE	1491.69	100.2	446	0.40	2.10	0.53	0.16	3.96	0.20	1.75	120	30
WESTGATE	1490.78	99.9	449	0.40	1.81	0.58	0.19	3.12	0.18	1.62	112	35
WESTGATE	1487.73	99.9	448	0.41	1.74	0.29	0.19	6.03	0.17	1.49	117	20
WESTGATE	1484.68	99.7	449	0.35	1.67	0.47	0.18	3.57	0.17	1.54	108	31
WESTGATE	1482.24	100.6	450	0.43	1.85	0.24	0.19	7.88	0.19	1.67	111	14
WESTGATE	1479.19	99.7	449	0.50	1.84	0.20	0.22	9.22	0.19	1.59	116	12
WESTGATE	1477.67	100.3	448	0.39	1.54	0.12	0.20	12.83	0.16	1.55	99	7
WESTGATE	1472.49	100.6	449	0.42	1.93	0.08	0.18	11.75	0.19	1.62	119	5
WESTGATE	1469.44	100.1	446	0.49	1.68	0.10	0.23	22.93	0.18	1.55	108	6
BELLE FOURCHE	1326.18	100.2	439	0.30	0.87	0.05	0.26	21.50	0.09	1.42	61	3
BELLE FOURCHE	1323.44	100.1	434	0.38	1.55	0.15	0.20	5.43	0.16	1.65	94	9
BELLE FOURCHE	1317.35	100.2	438	0.21	0.96	0.44	0.18	2.19	0.10	1.28	74	34
BELLE FOURCHE	1314.30	100.0	439	0.17	0.71	0.79	0.19	0.90	0.07	1.22	58	65
BELLE FOURCHE	1311.25	99.8	439	0.19	1.00	0.66	0.16	1.52	0.09	1.44	69	45
BELLE FOURCHE	1308.20	100.1	439	0.16	1.10	0.55	0.13	1.99	0.10	1.38	79	40
BELLE FOURCHE	1305.15	100.1	437	0.13	0.80	0.84	0.14	0.95	0.07	1.36	58	61
BELLE FOURCHE	1302.11	100.5	438	0.16	0.99	1.11	0.14	0.89	0.09	1.57	63	70
BELLE FOURCHE	1299.06	99.9	437	0.20	0.98	1.67	0.17	0.58	0.10	1.62	60	103
BELLE FOURCHE	1296.92	99.8	440	0.28	1.25	1.90	0.19	0.65	0.13	2.03	61	93
BELLE FOURCHE	1291.74	100.1	437	0.29	1.31	1.49	0.19	0.88	0.13	1.98	66	75
BELLE FOURCHE	1288.69	100.1	440	0.21	1.11	1.51	0.16	0.74	0.11	1.84	60	82
BELLE FOURCHE	1285.65	100.0	440	0.16	0.81	0.69	0.16	1.17	0.08	1.29	62	53
BELLE FOURCHE	1284.12	100.6	438	0.21	0.97	1.32	0.18	0.73	0.09	1.49	65	88
BELLE FOURCHE	1280.46	100.5	437	0.15	0.77	0.90	0.17	0.86	0.07	1.31	59	68
BELLE FOURCHE	1277.42	100.0	439	0.25	1.12	1.25	0.19	0.89	0.11	1.55	72	81
BELLE FOURCHE	1274.37	100.3	437	0.23	0.95	1.02	0.20	0.93	0.10	1.49	63	68
BELLE FOURCHE	1271.93	99.9	439	0.15	0.91	1.48	0.15	0.61	0.09	1.60	57	92
BELLE FOURCHE	1268.88	99.9	440	0.14	0.73	1.57	0.17	0.46	0.07	1.40	52	112
BELLE FOURCHE	1258.52	99.9	437	0.41	1.00	1.92	0.29	0.52	0.11	1.71	58	112
BELLE FOURCHE	1255.24	100.4	439	0.19	0.56	0.70	0.26	0.80	0.06	1.06	53	66
16-01-66-22 W5 C167143-01-08												
BELLE FOURCHE	1903.00	99.8	451	0.27	1.12	0.15	0.20	7.43	0.11	1.34	83	11
BELLE FOURCHE	1898.00	99.6	451	0.24	0.57	1.13	0.31	0.50	0.07	1.18	47	95
BELLE FOURCHE	1893.00	100.0	450	0.40	1.00	1.42	0.29	0.70	0.11	1.49	66	95
BELLE FOURCHE	1888.00	100.0	447	0.52	0.85	1.18	0.38	0.72	0.11	1.31	65	90
BELLE FOURCHE	1884.00	100.0	452	0.26	1.18	0.23	0.19	5.17	0.12	1.44	82	16
BELLE FOURCHE	1879.00	99.9	451	0.15	0.63	0.53	0.20	1.19	0.06	1.24	50	42
BELLE FOURCHE	1873.00	100.4	451	0.23	0.70	0.99	0.25	0.70	0.07	1.43	48	69
BELLE FOURCHE	1868.00	99.9	451	0.21	0.84	0.17	0.20	4.95	0.08	1.21	69	14

TABLE 3 - ROCK EVAL DATA

FORMATION	DEPTH (m)	QTY	TMAX	S 1	S 2	S 3	P I	S2/S3	P C	TOC	H I	O I
05-01-77-20 W5 C167135-2-25												
WESTGATE	451.10	100.1	436	0.37	0.66	0.37	0.36	1.81	0.08	1.50	44	24
WESTGATE	448.06	100.2	436	0.48	1.18	0.36	0.29	3.26	0.13	1.89	62	19
WESTGATE	445.01	100.4	427	0.23	0.58	0.36	0.28	1.63	0.06	1.62	35	22
WESTGATE	441.96	99.7	437	0.59	1.52	0.42	0.28	3.61	0.17	2.03	75	21
WESTGATE	438.91	100.0	433	0.53	1.11	0.41	0.33	2.74	0.13	1.96	56	20
WESTGATE	435.86	99.7	435	0.44	1.09	0.48	0.29	2.30	0.13	1.81	60	26
WESTGATE	432.82	100.1	431	0.44	0.72	0.40	0.39	1.79	0.09	1.81	39	22
WESTGATE	430.07	99.8	435	1.21	1.26	0.50	0.49	2.55	0.20	1.88	67	26
WESTGATE	427.02	100.0	431	0.48	1.16	0.43	0.30	2.68	0.13	1.77	65	24
WESTGATE	423.98	100.0	421	0.36	1.20	0.54	0.23	2.23	0.13	2.15	55	25
WESTGATE	421.23	99.9	419	0.42	1.34	0.56	0.24	2.39	0.15	2.31	58	24
FISH SCALES	419.40	100.2	422	0.43	1.14	0.60	0.28	1.93	0.13	2.04	56	29
FISH SCALES	417.58	100.4	413	0.33	1.68	0.95	0.17	1.77	0.17	2.96	57	32
FISH SCALES	414.53	99.7	413	0.37	2.72	1.00	0.12	2.72	0.25	3.20	85	31
FISH SCALES	411.48	100.1	413	0.35	2.87	1.12	0.11	2.57	0.27	3.19	89	35
FISH SCALES	408.43	99.8	413	0.26	1.41	1.04	0.16	1.36	0.14	2.62	53	39
FISH SCALES	405.38	99.8	416	0.22	1.53	1.10	0.13	1.39	0.14	2.61	59	42
FISH SCALES	402.34	100.6	414	0.22	1.61	0.98	0.12	1.65	0.15	2.62	61	37
BELLE FOURCHE	399.29	100.1	416	0.18	1.16	0.62	0.14	1.88	0.11	2.23	52	27
BELLE FOURCHE	396.24	100.0	434	0.68	0.74	0.61	0.48	1.21	0.12	1.26	58	48
BELLE FOURCHE	393.19	99.8	435	0.74	0.80	0.86	0.48	0.93	0.13	1.23	64	70
BELLE FOURCHE	390.14	99.8	436	0.67	0.75	1.34	0.47	0.56	0.11	1.30	57	103
BELLE FOURCHE	387.10	100.0	434	0.59	0.50	1.07	0.55	0.47	0.09	1.13	44	94
BELLE FOURCHE	384.05	100.8	433	0.27	0.47	1.41	0.37	0.38	0.06	1.16	40	120
BELLE FOURCHE	381.00	100.0	436	0.27	0.38	2.96	0.42	0.12	0.05	1.07	35	277
10-25-65-20 W5 C167144-01-04												
WESTGATE	1334.00	100.3	438	0.57	5.04	0.27	0.10	19.58	0.47	2.29	220	11
WESTGATE	1327.00	100.2	441	0.27	2.53	0.29	0.10	8.71	0.23	1.85	136	15
WESTGATE	1322.00	100.3	440	0.34	2.93	0.31	0.10	9.59	0.27	1.77	165	17
WESTGATE	1317.00	100.0	439	0.24	2.70	0.26	0.08	10.40	0.24	1.86	145	14
10-05-53-20 W5 C167145-01-06												
WESTGATE	2680.00	100.5	466	0.62	0.70	0.01	0.48	68.00	0.11	1.58	44	0
WESTGATE	2675.00	99.9	474	0.48	0.59	0.06	0.45	9.83	0.08	1.35	44	4
WESTGATE	2671.00	99.6	477	0.48	0.67	0.16	0.42	4.44	0.09	1.43	46	11
WESTGATE	2666.00	100.3	463	0.36	0.32	0.07	0.54	4.57	0.05	1.71	18	4
WESTGATE	2661.00	100.4	462	0.57	0.59	0.10	0.50	7.08	0.09	1.62	36	6
WESTGATE	2656.00	99.7	455	1.15	0.82	0.25	0.59	4.57	0.16	3.18	25	7
09-09-56-19 W5 C167147-1-7												
BELLE FOURCHE	2268.00	100.5	446	2.40	10.88	0.59	0.18	18.95	1.10	4.08	266	14
BELLE FOURCHE	2262.00	100.2	446	1.63	3.99	0.56	0.29	7.19	0.46	2.32	172	24
BELLE FOURCHE	2257.00	100.7	447	1.23	2.97	0.53	0.30	5.65	0.35	1.99	149	26
BELLE FOURCHE	2252.00	99.6	445	2.02	8.00	0.62	0.20	13.03	0.83	3.43	233	18
BELLE FOURCHE	2247.00	100.3	448	1.93	7.23	0.60	0.21	12.21	0.76	3.22	225	18
BELLE FOURCHE	2242.00	100.2	445	1.69	12.08	0.53	0.12	23.01	1.14	4.31	280	12
BELLE FOURCHE	2237.00	100.2	444	2.46	8.56	0.57	0.23	15.22	0.92	3.48	246	16

TABLE 3 - ROCK EVAL DATA

FORMATION	DEPTH (m)	QTY	TMAX	S 1	S 2	S 3	P I	S2/S3	P C	TOC	H I	O I
BELLE FOURCHE	2604.00	101.4	450	0.51	2.52	0.26	0.17	9.69	0.25	0.80	315	32
BELLE FOURCHE	2603.00	101.0	447	0.42	1.58	0.24	0.21	6.72	0.17	0.66	239	35
BELLE FOURCHE	2602.00	100.8	447	0.23	0.60	0.20	0.28	3.09	0.07	0.26	236	77
BELLE FOURCHE	2601.00	100.7	446	0.50	1.85	0.30	0.21	6.29	0.19	0.72	256	42
BELLE FOURCHE	2600.00	101.1	448	0.32	0.72	0.25	0.31	2.96	0.08	0.39	188	64
BELLE FOURCHE	2599.00	100.6	446	0.46	1.65	0.29	0.22	5.73	0.17	0.77	215	38
BELLE FOURCHE	2598.00	100.2	448	0.15	0.20	0.18	0.44	1.11	0.02	0.07	278	250
BELLE FOURCHE	2597.00	100.4	449	0.39	1.24	0.28	0.24	4.42	0.13	0.56	222	50
BELLE FOURCHE	2596.00	102.3	450	0.31	0.95	0.27	0.25	3.58	0.10	0.50	190	53
BELLE FOURCHE	2595.50	100.6	439	3.27	5.49	0.65	0.38	8.47	0.73	4.57	120	14
BELLE FOURCHE	2595.00	101.9	451	0.55	1.37	0.33	0.29	4.20	0.16	0.65	210	50
BELLE FOURCHE	2594.00	101.3	451	0.31	1.01	0.30	0.24	3.42	0.11	0.57	177	52
BELLE FOURCHE	2593.00	100.8	449	0.55	1.78	0.43	0.24	4.14	0.19	0.74	241	58
BELLE FOURCHE	2592.00	100.3	446	2.25	8.37	0.69	0.21	12.13	0.88	2.44	343	28
BELLE FOURCHE	2591.00	100.2	445	2.41	8.54	0.77	0.22	11.18	0.91	2.33	366	32
2nd SPECKS	2590.00	100.4	444	1.31	3.73	0.68	0.26	5.54	0.42	1.29	291	52
2nd SPECKS	2589.00	100.5	445	4.41	9.00	0.80	0.33	11.25	1.12	3.00	300	26
2nd SPECKS	2588.00	100.7	447	2.35	5.74	0.61	0.29	9.45	0.67	1.83	314	33
2nd SPECKS	2587.00	100.5	446	3.50	13.01	0.66	0.21	19.75	1.37	3.48	374	19
2nd SPECKS	2586.00	100.5	445	3.70	11.42	0.65	0.25	17.70	1.26	3.05	375	21
2nd SPECKS	2585.00	100.3	446	3.56	11.57	0.63	0.24	18.37	1.26	2.90	399	21
2nd SPECKS	2584.00	100.6	445	3.20	9.75	0.55	0.25	18.07	1.08	2.58	379	21
2nd SPECKS	2583.00	100.5	447	3.65	11.04	0.55	0.25	20.08	1.22	2.77	399	20
2nd SPECKS	2582.00	100.6	446	2.93	7.74	0.47	0.28	16.74	0.89	2.13	364	22
2nd SPECKS	2581.00	100.4	446	3.60	11.26	0.63	0.25	18.78	1.23	2.97	379	21
2nd SPECKS	2580.00	100.5	445	1.09	4.13	0.48	0.21	8.62	0.43	0.82	507	59
2nd SPECKS	2579.00	101.1	443	1.31	5.51	0.71	0.20	7.76	0.57	1.51	365	47
2nd SPECKS	2578.00	100.5	444	0.88	2.51	0.44	0.26	6.05	0.28	0.73	345	61
2nd SPECKS	2577.00	100.9	446	2.51	10.61	0.37	0.19	28.67	1.09	2.59	410	14
2nd SPECKS	2576.00	101.1	446	3.40	11.33	0.66	0.23	18.26	1.23	2.81	403	23
2nd SPECKS	2575.00	100.8	447	1.38	3.47	0.51	0.29	7.03	0.40	1.29	270	39
2nd SPECKS	2574.00	100.7	447	1.89	6.78	0.48	0.22	14.28	0.72	1.95	348	24
2nd SPECKS	2573.00	100.5	447	2.01	6.61	0.49	0.24	13.62	0.71	1.89	350	26
14-29-11-28W4 DOME ET AL CLARESHOLM												
2nd SPECKS	2525.00	100.8	437	1.26	9.84	0.62	0.12	15.89	0.92	3.06	321	20
2nd SPECKS	2522.00	101.4	443	0.93	6.26	0.59	0.13	10.78	0.60	2.35	267	25
2nd SPECKS	2518.00	101.1	438	1.01	5.91	0.66	0.15	8.95	0.57	2.35	251	28
2nd SPECKS	2515.00	101.2	439	0.91	3.62	0.61	0.20	5.98	0.38	1.78	203	34
2nd SPECKS	2511.00	101.1	438	0.90	5.35	0.64	0.15	8.36	0.52	1.88	284	34
HAVEN MBR?	2507.00	101.9	432	1.39	2.63	0.76	0.35	3.48	0.33	1.41	187	54
HAVEN MBR?	2505.00	100.5	439	1.12	3.50	0.65	0.25	5.70	0.38	1.85	189	35
06-30-13-27W4 MLC DEKALB CLARESHOM C-179967												
WESTGATE	2121.00		437	0.20	1.14	0.15	0.15	7.85	0.11	1.25	91	11
WESTGATE	2122.80		432	0.33	3.35	0.29	0.09	11.55	0.30	1.68	199	17
06-29-13-27W4 CAN HUNTER ET AL CLARESHOLM C-179966												
WESTGATE	2083.00		427	0.98	6.12	0.49	0.14	12.51	0.59	2.12	290	23
WESTGATE	2081.00		427	0.51	2.39	0.34	0.18	7.14	0.24	1.44	166	23
4-8-13-27W4 SINCLAIR E. MATHEWS												
WESTGATE	2081.80	100.5	447	0.48	0.83	0.30	0.37	2.77	0.11	1.21	68	24
WESTGATE	2079.50	101.2	438	0.29	0.86	0.24	0.25	3.64	0.10	0.88	99	27

TABLE 3 - ROCK EVAL DATA

FORMATION	DEPTH (m)	QTY	TMAX	S 1	S 2	S 3	P I	S2/S3	P C	TOC	H I	O I
04-13-54-18 W5 C167146-1-4												
2nd SPECKS	2114.00	99.7	443	2.42	8.30	0.55	0.23	15.10	0.89	3.13	265	17
2nd SPECKS	2109.00	100.3	443	3.63	11.36	0.65	0.24	17.73	1.25	3.83	297	17
2nd SPECKS	2104.00	100.7	441	4.15	14.28	0.51	0.23	28.87	1.53	4.83	296	10
2nd SPECKS	2099.00	100.1	442	1.32	4.23	0.27	0.24	17.38	0.46	2.17	195	12
14-29-13-29W4 BRASCAN ET AL OXLEY												
BELLE FOURCHE	2770.00	100.8	456	0.67	0.68	0.25	0.50	2.79	0.11	1.26	54	19
BELLE FOURCHE	2769.00	101.3	455	0.49	0.59	0.24	0.46	2.48	0.09	1.77	39	16
BELLE FOURCHE	2768.00	100.8	453	0.61	0.65	0.31	0.49	2.13	0.10	1.21	54	25
BELLE FOURCHE	2767.00	101.0	455	0.63	0.75	0.33	0.46	2.30	0.11	1.23	61	26
BELLE FOURCHE	2766.00	100.6	457	0.56	0.70	0.34	0.45	2.07	0.10	1.08	64	31
BELLE FOURCHE	2765.00	102.2	453	1.14	1.39	0.60	0.46	2.33	0.21	1.42	98	42
2nd SPECKS	2763.00	100.6	451	2.33	3.67	0.84	0.39	4.36	0.50	3.21	114	26
2nd SPECKS	2762.00	102.6	448	2.50	3.70	0.77	0.41	4.83	0.52	3.19	115	24
2nd SPECKS	2761.00	101.4	449	2.93	5.29	0.90	0.36	5.95	0.68	3.81	139	23
2nd SPECKS	2760.00	101.9	445	2.90	4.11	0.75	0.41	5.52	0.58	3.11	132	24
2nd SPECKS	2759.00	100.7	445	2.98	4.60	0.82	0.40	5.68	0.63	3.38	136	24
2nd SPECKS	2758.00	101.7	450	1.57	1.65	0.75	0.49	2.20	0.27	1.74	95	43
2nd SPECKS	2757.00	102.0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0	0
2nd SPECKS	2756.00	101.2	453	0.98	1.52	0.59	0.40	2.58	0.20	1.71	88	34
2nd SPECKS	2755.00	100.3	447	1.21	1.97	0.73	0.39	2.67	0.26	1.81	108	40
10-36-11-29W4 AMTROG GULF CLARESHOLM												
2nd SPECKS	2638.00	101.0	431	3.20	11.21	0.44	0.22	25.60	1.20	3.87	292	11
2nd SPECKS	2636.00	100.1	442	2.66	11.02	0.68	0.20	16.91	1.14	3.69	298	18
2nd SPECKS	2634.00	101.4	442	1.50	6.00	0.72	0.20	8.41	0.62	2.35	256	30
2nd SPECKS	2632.00	100.5	442	1.68	6.50	0.47	0.21	13.96	0.68	2.66	244	17
2nd SPECKS	2630.00	101.0	445	1.20	5.02	0.39	0.19	12.88	0.51	2.48	203	15
2nd SPECKS	2626.00	101.3	446	0.53	1.31	0.41	0.29	3.21	0.15	1.12	116	36
2nd SPECKS	2624.00	100.8	446	1.03	2.42	0.53	0.30	4.53	0.29	1.82	134	29
2nd SPECKS	2623.00	101.3	443	0.41	1.11	0.26	0.28	4.32	0.12	1.02	109	25
2nd SPECKS	2622.00	100.8	442	1.14	3.75	0.53	0.23	7.10	0.41	1.93	195	27
2nd SPECKS	2621.00	100.9	440	1.37	5.13	0.59	0.21	8.77	0.54	2.31	222	25
2nd SPECKS	2621.00	101.4	438	1.38	4.95	0.58	0.22	8.55	0.53	2.26	220	25
2nd SPECKS	2620.00	100.6	442	0.89	2.41	0.41	0.27	5.86	0.27	1.51	164	28
2nd SPECKS	2618.00	101.3	441	0.51	1.12	0.29	0.32	3.84	0.13	1.11	100	26
2nd SPECKS	2616.00	101.9	438	2.35	8.04	0.59	0.23	13.96	0.86	3.02	266	19
2nd SPECKS	2614.00	100.9	439	0.86	1.96	0.38	0.31	5.30	0.23	1.33	147	28
2nd SPECKS	2612.00	101.6	438	1.86	5.47	0.50	0.26	11.30	0.61	2.23	245	22
HAVEN MBR.?	2610.00	101.5	443	0.60	1.34	0.30	0.31	4.47	0.16	1.27	106	23
HAVEN MBR.?	2608.00	101.9	443	0.45	1.44	0.27	0.24	5.31	0.15	1.12	129	24
HAVEN MBR.?	2606.00	102.5	441	0.67	2.14	0.40	0.24	5.40	0.23	1.39	155	28
HAVEN MBR.?	2604.00	101.1	441	0.32	0.55	0.25	0.37	2.25	0.07	0.64	86	38
HAVEN MBR.?	2602.00	103.0	442	0.51	1.67	0.34	0.24	4.96	0.18	1.20	141	28
HAVEN MBR.?	2600.00	101.3	440	0.88	3.10	0.49	0.22	6.38	0.33	1.69	183	28
HAVEN MBR.?	2598.00	101.5	441	0.84	2.55	0.47	0.25	5.43	0.28	1.67	152	28
HAVEN MBR.?	2597.00	101.1	438	0.87	2.70	0.51	0.24	5.34	0.29	1.75	154	28
06-07-12-28W4 CANADIAN SUPERIOR OXLEY C-190616												
BELLE FOURCHE	2607.00	100.4	450	0.45	1.28	0.20	0.26	6.40	0.14	0.63	203	31
BELLE FOURCHE	2606.00	101.5	449	0.31	0.86	0.19	0.26	4.64	0.09	0.36	238	51
BELLE FOURCHE	2605.00	101.3	447	0.50	1.86	0.27	0.21	7.01	0.19	0.71	262	37

TABLE 3 - ROCK EVAL DATA

FORMATION	DEPTH (m)	QTY	TMAX	S 1	S 2	S 3	P I	S2/S3	P C	TOC	H I	O I
FISH SCALES	2071.40	100.8	428	2.04	10.66	0.79	0.16	13.63	1.06	3.25	328	24
FISH SCALES	2068.50	101.6	441	0.35	3.18	0.28	0.10	11.57	0.29	1.46	218	18
6-32-13-27W4 CAN HUNTER ET AL CLARESHOLM												
BOW ISLAND	2091.00	101.0	0	0.11	0.00	0.07	1.00	0.00	0.00	0.18	0	36
BOW ISLAND	2087.00	100.7	437	0.25	3.50	0.25	0.07	14.68	0.31	1.81	194	13
BOW ISLAND	2084.00	100.2	438	0.26	3.40	0.21	0.07	16.62	0.30	1.72	198	12
WESTGATE	2081.25	100.5	438	0.28	0.74	0.11	0.28	7.05	0.08	0.93	80	11
WESTGATE	2079.50	100.2	437	0.23	1.08	0.17	0.18	6.53	0.11	1.11	97	15
FISH SCALES	2076.50	100.3	424	1.98	6.76	0.50	0.23	14.71	0.73	2.13	317	23
06-21-55-25 W4 AJAX MORINVILLE C167142-1-2												
WESTGATE	870.00	100.5	440	0.35	1.44	0.52	0.20	2.81	0.15	1.77	81	29
WESTGATE	856.00	100.1	429	0.15	1.45	0.56	0.10	2.61	0.13	1.88	77	29
8-25-12-24W4												
FISH SCALES	1356.00	100.9	425	0.25	2.60	0.41	0.09	6.41	0.23	0.93	280	43
FISH SCALES	1354.00	101.2	424	1.22	7.66	0.52	0.14	14.73	0.74	2.79	275	18
BARONS	1352.00	100.4	438	0.99	7.37	0.46	0.12	16.02	0.70	1.92	384	23
BARONS	1350.00	101.8	428	0.50	4.88	0.39	0.10	12.49	0.44	2.05	237	19
BELLE FOURCHE	1348.00	100.8	429	0.37	4.95	0.34	0.07	14.56	0.44	2.06	240	16
BELLE FOURCHE	1346.00	101.2	429	0.36	4.64	0.34	0.07	13.64	0.42	1.83	253	19
BELLE FOURCHE	1344.00	100.5	428	0.25	2.80	0.33	0.08	8.59	0.25	1.44	194	22
BELLE FOURCHE	1342.00	101.5	429	0.26	3.99	0.32	0.06	12.65	0.35	1.69	237	18
BELLE FOURCHE	1340.00	101.1	425	0.46	6.51	0.37	0.07	17.57	0.58	2.24	290	16
11-21-12-23 W4 C167150 16-22												
WESTGATE	1293.00	100.2	439	0.11	1.12	0.26	0.09	4.39	0.10	1.48	76	17
WESTGATE	1291.00	100.2	438	0.18	1.19	0.23	0.13	5.27	0.11	1.30	91	17
WESTGATE	1289.00	100.0	430	0.32	2.28	0.35	0.13	6.58	0.21	1.34	170	26
FISH SCALES	1286.00	99.8	423	1.41	10.00	0.55	0.12	18.19	0.95	2.91	344	19
FISH SCALES	1284.00	100.6	426	1.34	15.91	0.42	0.08	37.89	1.43	4.22	377	10
FISH SCALES	1282.00	100.2	423	1.20	16.46	0.45	0.07	36.98	1.47	4.13	398	10
FISH SCALES	1280.00	100.0	422	1.10	21.14	0.78	0.05	27.98	1.85	4.83	438	16
FISH SCALES	1278.00	100.0	439	0.38	11.39	0.50	0.03	23.01	0.98	2.89	395	17
BELLE FOURCHE	1276.00	99.8	440	0.19	2.38	0.26	0.07	9.35	0.21	1.54	154	16
BELLE FOURCHE	1274.00	99.6	433	0.55	9.31	0.50	0.06	18.90	0.82	2.99	312	16
BELLE FOURCHE	1272.00	100.1	430	0.34	5.45	0.48	0.06	11.38	0.48	2.18	250	22
BELLE FOURCHE	1270.00	99.6	430	0.53	8.15	0.52	0.06	15.66	0.72	2.26	360	23
BELLE FOURCHE	1268.00	100.3	432	0.39	9.17	0.44	0.04	21.11	0.79	2.58	356	17
2nd SPECKS	1220.00	100.2	425	1.29	25.15	0.60	0.05	42.30	2.20	4.51	558	13
2nd SPECKS	1218.00	99.9	425	1.39	32.95	0.65	0.04	50.86	2.86	5.32	620	12
2nd SPECKS	1216.00	99.9	423	1.41	27.42	0.83	0.05	33.95	2.40	5.31	516	16
2nd SPECKS	1214.00	100.1	432	0.36	3.74	0.49	0.09	7.62	0.34	1.99	187	24
2nd SPECKS	1212.00	99.8	427	0.83	12.48	0.80	0.06	15.68	1.11	3.43	364	23
2nd SPECKS	1210.00	99.7	429	0.35	2.66	0.37	0.12	7.26	0.25	1.07	249	34
2nd SPECKS	1208.00	100.1	429	0.63	10.92	0.72	0.06	15.57	0.96	2.94	371	24
2nd SPECKS	1206.00	100.2	429	0.46	5.25	0.50	0.08	10.60	0.47	2.22	236	22
2nd SPECKS	1204.00	100.1	434	0.57	6.14	0.41	0.09	15.11	0.55	2.52	244	16
16-10-12-23W4												
WESTGATE	1262.00	101.0	433	0.08	0.76	0.25	0.10	3.02	0.07	1.17	65	21
WESTGATE	1260.00	100.5	431	0.08	1.09	0.23	0.07	4.82	0.10	1.36	79	16
WESTGATE	1259.00	100.6	429	0.08	1.10	0.19	0.07	6.08	0.10	1.28	87	14

TABLE 3 - ROCK EVAL DATA

FORMATION	DEPTH (m)	QTY	TMAX	S 1	S 2	S 3	P I	S2/S3	P C	TOC	H I	O I
WESTGATE	1257.00	101.5	433	0.08	1.18	0.17	0.07	6.94	0.10	1.22	96	14
WESTGATE	1256.00	101.0	430	0.08	0.85	0.17	0.09	5.15	0.08	1.12	76	15
FISH SCALES	1254.00	101.1	416	1.36	12.11	0.70	0.10	22.83	1.12	3.36	360	21
FISH SCALES	1254.00	101.7	418	1.30	12.75	0.54	0.10	26.37	1.17	3.52	363	15
FISH SCALES	1252.00	101.2	419	1.28	17.36	0.59	0.07	34.51	1.55	4.12	422	14
FISH SCALES	1251.00	101.0	416	1.40	17.95	0.72	0.08	32.10	1.61	4.06	445	17
FISH SCALES	1250.00	101.8	416	1.42	17.74	0.74	0.08	29.41	1.60	4.29	414	17
BELLEFOURCHE	1248.00	100.6	416	0.71	6.45	0.65	0.10	10.04	0.59	1.89	341	34
BELLEFOURCHE	1246.00	101.1	419	0.45	3.38	0.57	0.12	5.93	0.32	0.91	372	63
BELLEFOURCHE	1244.00	101.4	420	0.49	5.18	0.55	0.09	9.60	0.47	2.40	216	23
BELLEFOURCHE	1242.00	100.4	420	0.99	7.46	0.52	0.12	14.33	0.70	3.05	245	17
BELLEFOURCHE	1240.40	101.0	425	0.31	6.33	0.35	0.05	18.41	0.55	2.08	304	16
BELLEFOURCHE	1238.50	101.1	422	0.32	4.82	0.38	0.07	12.70	0.43	2.06	234	18
				10-34-42-22 W4	C167138-1-7							
2nd SPECKS	1470.00	99.8	422	1.09	18.74	1.13	0.06	16.61	1.65	4.78	392	23
2nd SPECKS	1465.00	100.1	428	0.68	7.38	0.73	0.09	10.23	0.67	3.05	242	24
2nd SPECKS	1460.00	99.6	423	1.10	18.99	1.11	0.06	17.22	1.67	4.61	412	24
2nd SPECKS	1455.00	99.9	423	1.18	22.57	1.11	0.05	20.33	1.98	5.24	431	21
2nd SPECKS	1450.00	100.1	418	1.56	26.24	1.16	0.06	22.63	2.31	6.15	427	18
2nd SPECKS	1445.00	99.7	426	0.48	6.60	0.74	0.07	8.97	0.59	2.80	236	26
2nd SPECKS	1440.00	100.2	427	0.52	7.94	0.52	0.06	15.68	0.70	2.81	282	18
				06-16-11-22W4	C179965 (1-29)							
BELLE FOURCHE	1111.60		418	0.27	3.45	0.36	0.07	9.62	0.31	1.99	174	18
BELLE FOURCHE	1112.10		420	0.24	1.55	0.31	0.14	5.00	0.14	1.58	98	19
BELLE FOURCHE	1112.60		421	0.22	2.09	0.32	0.10	6.51	0.19	1.68	124	19
BELLE FOURCHE	1113.10		422	0.44	2.69	0.46	0.14	6.09	0.26	1.49	182	32
BELLE FOURCHE	1113.60		421	0.35	3.27	0.49	0.10	6.74	0.30	1.85	177	26
BELLE FOURCHE	1114.10		417	1.01	2.38	0.54	0.30	4.55	0.28	1.32	181	41
BELLE FOURCHE	1114.60		384	0.31	1.43	0.91	0.51	4.28	0.14	1.68	86	53
BARONS SST.	1115.10		428	0.25	2.22	0.77	0.10	2.98	0.20	1.62	137	47
BARONS SST.	1116.50		413	14.31	5.26	1.16	0.74	4.84	1.63	1.66	317	70
BARONS SST.	1117.20		423	0.73	7.40	1.51	0.09	4.91	0.68	4.45	166	34
FISH SCALES	1117.75		424	0.49	4.06	1.35	0.11	3.01	0.38	2.52	161	53
FISH SCALES	1118.25		424	0.22	1.61	1.02	0.12	1.58	0.15	1.31	122	77
FISH SCALES	1118.75		423	0.22	2.51	1.16	0.08	2.16	0.22	1.28	197	91
FISH SCALES	1119.25		422	0.20	2.60	1.04	0.07	2.52	0.23	0.95	273	109
FISH SCALES	1119.75		421	0.41	5.43	1.59	0.07	3.42	0.48	2.96	184	53
FISH SCALES	1120.25		417	0.60	8.96	1.81	0.06	4.96	0.79	4.32	207	41
FISH SCALES	1121.35		420	0.34	3.79	1.52	0.08	2.49	0.34	2.05	184	74
FISH SCALES	1122.00		419	0.34	3.54	1.44	0.09	2.46	0.32	1.96	180	73
WESTGATE	1122.50		418	0.66	8.28	1.35	0.07	6.19	0.74	3.27	253	41
WESTGATE	1123.00		416	1.93	20.58	1.16	0.09	17.77	1.87	7.17	287	16
WESTGATE	1123.25		414	2.99	30.51	1.74	0.09	17.97	2.79	10.01	306	17
WESTGATE	1123.50		417	0.86	9.96	1.29	0.08	7.72	0.90	4.34	229	30
WESTGATE	1124.00		418	0.69	6.21	0.96	0.10	6.72	0.57	2.97	209	32
WESTGATE	1124.50		415	1.56	17.72	0.91	0.08	19.59	1.61	6.54	271	13
WESTGATE	1125.00		415	1.98	25.89	1.23	0.07	21.93	2.32	9.30	278	13
WESTGATE	1125.50		419	1.48	4.82	1.00	0.24	4.85	0.52	2.19	220	45
WESTGATE	1126.00		416	1.15	10.61	1.06	0.10	10.07	0.98	4.89	217	21

TABLE 3 - ROCK EVAL DATA

FORMATION	DEPTH (m)	QTY	TMAX	S 1	S 2	S 3	P I	S2/S3	P C	TOC	H I	O I
6-34-10-22W4												
BOW ISLAND	1050.00	101.4	439	0.08	13.24	0.22	0.01	61.59	1.11	2.62	506	8
BOW ISLAND	1048.50	101.4	436	0.14	1.56	0.15	0.09	10.40	0.14	1.44	108	10
WESTGATE	1037.00	100.6	430	0.27	0.73	0.21	0.27	3.45	0.08	1.10	66	19
WESTGATE	1032.00	100.6	431	0.12	1.27	0.24	0.09	5.42	0.11	1.37	93	17
BELLEFOURCHE	1017.50	101.2	415	0.67	7.52	0.53	0.08	14.32	0.68	2.33	322	22
BELLEFOURCHE	1012.50	101.1	404	3.21	2.75	0.63	0.54	5.27	0.49	0.87	316	24
BELLEFOURCHE	1010.00	54.1	422	0.19	2.15	0.28	0.08	8.15	0.19	1.56	138	18
06-16-06-22 W4 C167149 1-3												
FISH SCALES	981.00	100.1	427	1.71	19.19	0.52	0.08	36.88	1.74	5.30	362	10
FISH SCALES	976.00	100.3	428	0.99	12.63	0.47	0.08	26.85	1.13	3.21	393	15
FISH SCALES	971.00	100.1	431	0.52	4.94	0.37	0.10	13.36	0.45	2.07	239	18
07-12-42-21 W4 C167139-1-2												
2nd SPECKS	1012.00	100.2	425	1.19	19.95	0.86	0.06	23.19	1.76	5.41	369	16
2nd SPECKS	1009.00	100.4	422	0.78	10.92	0.77	0.07	14.32	0.97	4.12	265	18
11-12-06-16 W4 C167148 1-17												
WESTGATE	630.00	100.4	436	0.23	1.21	0.34	0.16	3.63	0.12	1.57	77	21
FISH SCALES	625.00	99.6	421	0.65	9.98	0.70	0.06	14.36	0.88	3.39	294	20
FISH SCALES	620.00	99.8	418	1.42	33.04	1.08	0.04	30.91	2.87	7.96	415	13
BELLE FOURCHE	615.00	99.9	427	0.46	4.13	0.52	0.11	7.93	0.38	2.09	197	25
BELLE FOURCHE	609.00	100.0	427	0.33	2.20	0.44	0.13	4.99	0.21	2.23	98	19
BELLE FOURCHE	604.00	99.7	423	0.25	5.87	0.52	0.04	11.39	0.51	3.26	180	16
BELLE FOURCHE	599.00	99.9	421	0.23	4.82	0.47	0.05	10.25	0.42	3.07	157	15
BELLE FOURCHE	594.00	100.2	431	0.37	4.35	0.40	0.08	11.07	0.39	2.64	164	15
BELLE FOURCHE	589.00	100.0	423	0.16	2.35	0.32	0.06	7.45	0.20	2.37	99	13
BELLE FOURCHE	584.00	100.1	420	0.15	2.44	0.36	0.06	6.77	0.21	2.29	106	16
BELLE FOURCHE	579.00	100.0	425	0.10	1.31	0.33	0.07	4.04	0.12	2.04	64	16
BELLE FOURCHE	574.00	99.8	423	0.12	0.94	0.36	0.11	2.65	0.09	1.56	60	23
2nd SPECKS	569.00	100.0	418	0.93	27.22	1.01	0.04	27.00	2.34	6.37	427	16
2nd SPECKS	564.00	100.3	424	0.31	5.77	0.82	0.05	7.08	0.50	1.85	313	44
2nd SPECKS	559.00	100.5	429	0.45	3.66	0.53	0.11	6.90	0.34	2.37	154	22
2nd SPECKS	554.00	100.4	424	0.34	2.73	0.47	0.11	5.88	0.25	2.08	131	22
2nd SPECKS	549.00	100.4	430	0.66	5.95	0.42	0.10	14.26	0.55	3.03	196	13
06-22-11-06 W4 C179954 1-6												
BELLE FOURCHE	540.00	100.0	429	0.21	3.23	0.70	0.06	4.61	0.28	2.66	122	26
BELLE FOURCHE	535.00	99.9	420	0.27	1.64	0.61	0.14	2.68	0.15	1.60	102	38
BELLE FOURCHE	530.00	100.2	418	0.24	3.65	0.65	0.06	5.65	0.32	1.90	192	34
2nd SPECKS	525.00	99.8	413	1.58	53.55	1.69	0.03	31.73	4.59	9.88	544	17
2nd SPECKS	523.00	100.0	422	0.59	22.99	1.32	0.03	17.41	1.96	5.23	442	25
2nd SPECKS	520.00	100.3	427	0.44	10.94	1.01	0.04	10.95	0.94	2.86	383	35
06-34-30-08 W4 C167141 16-27												
WESTGATE	829.00	100.1	433	1.11	2.15	1.20	0.34	1.79	0.27	1.57	136	76
WESTGATE	824.00	100.6	435	0.63	3.09	0.66	0.17	4.71	0.31	2.07	149	32
WESTGATE	819.00	100.2	436	0.80	2.90	0.72	0.22	4.05	0.31	2.22	130	32
WESTGATE	814.00	100.2	429	0.44	0.78	0.32	0.36	2.46	0.10	1.08	72	29
WESTGATE	810.00	100.5	434	0.37	1.39	0.84	0.21	1.65	0.14	1.90	73	44
WESTGATE	805.00	99.8	437	0.28	1.95	0.74	0.13	2.65	0.18	1.90	103	38
WESTGATE	800.00	100.1	433	0.55	1.88	0.48	0.23	3.92	0.20	1.57	119	30
WESTGATE	795.00	100.0	435	0.61	1.31	0.60	0.32	2.19	0.16	1.90	68	31
WESTGATE	790.00	100.3	434	0.61	1.72	0.78	0.27	2.21	0.19	1.56	110	50

TABLE 3 - ROCK EVAL DATA

FORMATION	DEPTH (m)	QTY	TMAX	S 1	S 2	S 3	P I	S2/S3	P C	TOC	H I	O I
WESTGATE	785.00	100.0	431	1.07	1.82	0.57	0.37	3.19	0.24	1.61	113	35
WESTGATE	780.00	99.5	431	1.70	1.97	0.60	0.47	3.31	0.30	1.83	107	32
WESTGATE	775.00	99.7	430	0.78	1.37	0.48	0.36	2.87	0.18	1.71	80	28
FISH SCALES	770.00	100.0	432	0.57	1.89	0.72	0.23	2.66	0.20	2.03	93	35
FISH SCALES	765.00	100.4	412	2.11	12.77	1.41	0.14	9.09	1.24	5.57	229	25
BELLE FOURCHE	753.00	100.1	437	0.30	2.04	0.59	0.13	3.48	0.19	1.88	108	31
BELLE FOURCHE	748.00	99.8	428	0.60	1.76	0.62	0.26	2.83	0.19	1.75	100	35
2nd SPECKS	743.00	99.9	417	3.88	35.61	1.73	0.10	20.58	3.29	8.73	408	20
2nd SPECKS	738.00	100.4	416	8.44	27.54	1.75	0.23	15.78	3.00	8.21	335	21
2nd SPECKS	733.00	99.9	418	9.65	21.97	1.58	0.31	13.97	2.63	7.26	302	21
2nd SPECKS	728.00	100.1	417	14.75	25.65	1.78	0.37	14.43	3.36	8.11	316	22
2nd SPECKS	723.00	100.2	421	5.30	17.08	1.35	0.24	12.66	1.86	5.88	290	23
2nd SPECKS	718.00	99.8	417	5.84	15.07	1.19	0.28	12.71	1.74	5.26	286	22
2nd SPECKS	713.00	99.9	416	11.72	17.88	1.20	0.40	14.96	2.46	6.26	285	19
2nd SPECKS	708.00	100.1	417	18.76	21.79	1.63	0.46	13.37	3.37	7.39	295	22
2nd SPECKS	703.00	99.9	417	8.65	19.97	1.28	0.31	15.60	2.38	6.19	322	20
2nd SPECKS	698.00	100.0	423	7.11	18.60	1.26	0.28	14.76	2.14	5.77	322	22
2nd SPECKS	693.00	100.4	422	1.44	13.00	1.18	0.10	11.01	1.20	5.04	258	23
07-14-01-05 W4		C179953	4-6									
BELLE FOURCHE	603.00	100.4	419	0.24	1.49	0.44	0.14	3.42	0.14	1.93	77	23
BELLE FOURCHE	598.00	99.9	420	0.12	1.04	0.38	0.10	2.76	0.09	1.96	53	19
BELLE FOURCHE	593.00	100.1	420	0.18	0.25	0.12	0.42	2.16	0.03	0.42	60	29
BELLE FOURCHE	589.00	99.8	415	0.23	2.14	0.65	0.10	3.28	0.20	2.70	79	24
2nd SPECKS	583.00	100.4	420	0.93	15.79	1.20	0.06	13.21	1.39	4.30	367	28
2nd SPECKS	579.00	99.9	422	0.45	8.32	0.90	0.05	9.29	0.73	2.13	390	42
10-35-45-02 W4		C167136	2-25									
WESTGATE	498.00	100.0	430	0.26	1.59	0.40	0.14	4.02	0.15	2.12	75	18
WESTGATE	493.00	100.4	434	0.21	1.63	0.42	0.12	3.87	0.15	1.98	82	21
WESTGATE	488.00	99.7	425	0.08	0.81	0.44	0.10	1.87	0.07	1.85	43	23
WESTGATE	483.00	100.0	435	0.28	1.46	0.43	0.16	3.39	0.14	1.88	77	22
WESTGATE	478.00	99.9	430	0.06	0.64	0.34	0.09	1.89	0.06	1.44	44	23
WESTGATE	473.00	99.9	432	0.15	0.53	1.03	0.22	0.51	0.05	1.32	40	78
WESTGATE	468.00	99.8	424	0.05	0.34	0.36	0.13	0.94	0.03	1.10	30	32
WESTGATE	463.00	100.2	422	0.04	0.41	0.44	0.09	0.94	0.03	1.28	32	34
WESTGATE	458.00	100.2	422	0.18	0.46	0.41	0.28	1.12	0.05	1.12	41	36
WESTGATE	448.00	99.9	420	0.32	1.33	0.51	0.20	2.63	0.14	1.94	68	26
FISH SCALES	443.00	100.3	442	0.24	8.84	0.79	0.03	11.20	0.75	2.98	296	26
BELLE FOURCHE	438.00	100.1	441	0.32	3.14	1.14	0.10	2.76	0.28	1.85	169	62
BELLE FOURCHE	428.00	100.2	433	0.46	1.48	0.54	0.24	2.75	0.16	1.57	94	34
2nd SPECKS	417.00	100.1	417	1.94	27.39	2.89	0.07	9.49	2.44	8.48	323	34
2nd SPECKS	414.00	100.2	415	1.62	29.60	3.09	0.05	9.58	2.60	7.90	375	39
2nd SPECKS	413.00	99.9	415	1.82	24.72	2.41	0.07	10.25	2.21	6.08	406	39
2nd SPECKS	412.00	100.3	413	2.38	24.96	2.65	0.09	9.44	2.28	6.81	367	39
2nd SPECKS	411.00	100.2	417	1.43	20.85	2.24	0.06	9.33	1.85	5.73	364	39
2nd SPECKS	410.00	99.7	407	1.60	16.82	1.50	0.09	11.22	1.53	6.97	241	21
06-18-45-01 W4		C167137	1-14									
WESTGATE	459.00	100.0	427	0.08	0.57	0.34	0.12	1.67	0.05	1.36	42	25
WESTGATE	454.00	99.7	432	0.09	0.58	0.42	0.14	1.40	0.05	1.27	46	33
WESTGATE	449.00	100.2	428	0.20	1.58	0.48	0.11	3.29	0.14	1.87	84	26

TABLE 3 - ROCK EVAL DATA

FORMATION	DEPTH (m)	QTY	TMAX	S 1	S 2	S 3	P I	S2/S3	P C	TOC	H I	O I
WESTGATE	439.00	100.2	422	0.14	1.67	0.61	0.08	2.76	0.15	2.04	81	29
WESTGATE	434.00	100.2	414	0.86	11.06	1.30	0.07	8.52	0.99	5.83	189	22
BELLE FOURCHE	429.00	100.0	438	0.17	6.00	1.12	0.03	5.37	0.51	2.49	241	45
BELLE FOURCHE	424.00	99.9	437	0.24	3.11	0.58	0.07	5.40	0.28	1.99	155	29
BELLE FOURCHE	419.00	100.4	424	0.19	1.13	0.38	0.15	3.00	0.11	1.59	71	23
BELLE FOURCHE	416.00	100.3	423	0.11	0.53	0.70	0.17	0.77	0.05	1.06	50	66
BELLE FOURCHE	414.00	100.4	419	0.12	1.10	0.65	0.10	1.69	0.10	2.08	53	31
2nd SPECKS	408.00	100.0	418	0.76	28.97	2.42	0.03	11.99	2.47	7.50	386	32
2nd SPECKS	403.00	100.1	410	1.73	50.77	3.48	0.03	14.63	4.37	12.08	420	29
2nd SPECKS	398.00	99.7	412	0.71	14.86	1.54	0.05	9.65	1.30	5.59	266	27
10-25-01-27W3 (01-04) SASKOIL WILLOW CREEK C-179958												
1st SPECKS	839.00	100.8	418	0.46	19.45	1.51	0.02	12.88	1.65	5.68	342	26
1st SPECKS	838.00	100.4	415	0.52	20.66	1.39	0.02	14.88	1.76	3.53	587	39
1st SPECKS	837.00	101.9	421	0.25	9.83	1.05	0.03	9.43	0.84	3.68	267	28
1st SPECKS	836.00	101.7	413	0.47	16.06	1.12	0.03	14.40	1.37	3.15	511	35
11-16-35-8W3 (49-1) C.M.S. VANSKOY												
PENSE	523.15	101.0	433	1.39	3.96	0.39	0.26	10.14	0.44	2.08	190	19
JOLI FOU	520.90	101.4	431	0.32	2.74	0.29	0.10	9.46	0.25	1.47	187	20
JOLI FOU	519.90	100.7	432	0.23	3.12	0.25	0.07	12.75	0.28	1.28	244	19
JOLI FOU	518.90	100.8	422	0.16	1.31	0.36	0.11	3.69	0.12	2.00	65	18
JOLI FOU	517.90	101.6	418	0.11	0.65	0.27	0.14	2.47	0.06	1.18	55	22
JOLI FOU	516.90	101.4	418	0.11	0.65	0.29	0.14	2.24	0.06	1.21	54	24
JOLI FOU	515.90	101.1	416	0.05	0.23	0.35	0.19	0.67	0.02	0.93	24	37
JOLI FOU	514.90	100.6	419	0.18	0.35	0.27	0.34	1.30	0.04	0.97	36	28
JOLI FOU	514.80	101.4	428	0.05	0.51	0.22	0.09	2.42	0.04	1.25	41	17
JOLI FOU	510.00	101.1	421	0.04	0.34	0.21	0.11	1.62	0.03	0.73	47	29
JOLI FOU	504.60	102.0	431	0.00	0.15	0.17	0.00	0.91	0.01	0.55	27	30
VIKING	499.80	101.4	438	0.01	0.17	0.02	0.06	12.00	0.01	0.38	43	4
WESTGATE	494.80	101.0	446	0.01	0.18	0.03	0.06	6.00	0.01	0.57	31	5
WESTGATE	489.90	101.1	431	0.02	0.26	0.06	0.06	4.33	0.02	0.78	34	7
WESTGATE	484.80	100.4	429	0.10	0.46	0.10	0.18	4.81	0.04	0.93	49	10
FISH SCALES	484.30	101.1	435	0.36	2.19	0.39	0.14	5.60	0.21	1.86	117	21
FISH SCALES	479.80	101.1	433	0.06	1.05	0.15	0.05	7.24	0.09	1.52	69	9
BELLE FOURCHE	476.40	101.1	429	0.06	0.56	0.08	0.10	7.11	0.05	0.94	59	8
BELLE FOURCHE	470.80	101.5	431	0.16	0.74	0.12	0.18	6.12	0.07	1.40	52	8
BELLE FOURCHE	465.80	100.3	430	0.17	0.76	0.10	0.18	7.97	0.07	1.22	61	8
BELLE FOURCHE	460.80	101.9	427	0.06	0.41	0.05	0.13	8.54	0.04	1.06	38	4
BELLE FOURCHE	455.80	101.3	423	0.04	0.47	0.04	0.08	11.75	0.04	1.17	40	3
BELLE FOURCHE	450.80	101.2	423	0.22	0.57	0.07	0.28	8.81	0.06	1.08	52	6
BELLE FOURCHE	445.80	100.6	417	0.05	0.85	0.26	0.06	3.31	0.07	1.62	52	16
BELLE FOURCHE	440.80	101.2	430	0.05	0.91	0.15	0.05	6.29	0.08	1.47	62	10
BELLE FOURCHE	435.80	100.3	419	0.03	0.74	0.21	0.04	3.61	0.06	1.56	47	13
BELLE FOURCHE	430.80	100.5	411	0.24	1.22	1.81	0.16	0.67	0.12	1.62	75	111
BELLE FOURCHE	427.30	102.0	427	0.08	1.29	0.21	0.06	6.16	0.11	1.73	75	12
BELLE FOURCHE	418.50	101.2	421	0.06	0.88	0.34	0.06	2.59	0.08	1.97	44	17
BELLE FOURCHE	413.20	100.8	424	0.04	0.72	0.17	0.06	4.21	0.06	1.20	59	14
BELLE FOURCHE	408.20	102.2	425	0.02	0.72	0.12	0.03	6.28	0.06	1.26	57	9
BELLE FOURCHE	407.20	101.1	434	0.04	1.72	0.27	0.02	6.41	0.14	1.48	116	18
BELLE FOURCHE	406.20	100.1	420	0.05	1.13	0.32	0.04	3.58	0.10	1.50	75	21
BELLE FOURCHE	405.20	100.9	419	0.05	1.01	0.33	0.05	3.12	0.08	1.28	78	25

TABLE 3 - ROCK EVAL DATA

FORMATION	DEPTH (m)	QTY	TMAX	S 1	S 2	S 3	P I	S2/S3	P C	TOC	H I	O I
BELLE FOURCHE	404.20	100.5	411	0.57	12.30	1.23	0.05	9.99	1.07	4.61	267	26
BELLE FOURCHE	403.20	100.7	414	0.39	9.30	1.15	0.04	8.08	0.81	3.88	239	29
BELLE FOURCHE	402.20	100.6	420	0.19	3.17	0.68	0.06	4.66	0.28	2.30	138	29
BELLE FOURCHE	401.70	101.1	420	0.26	4.02	0.71	0.06	5.75	0.36	2.47	163	28
2nd SPECKS	401.00	101.2	406	2.35	32.86	2.26	0.07	14.53	2.93	8.67	379	26
2nd SPECKS	400.25	100.6	416	0.33	14.02	1.38	0.02	10.19	1.19	4.62	303	30
1st SPECKS	399.40	100.4	412	0.76	22.62	1.56	0.03	14.50	1.95	5.94	381	26
1st SPECKS	398.40	101.2	415	0.70	22.39	1.43	0.03	15.71	1.92	5.60	400	25
1st SPECKS	397.25	101.4	413	1.18	27.04	1.86	0.04	14.54	2.35	6.56	412	28
1st SPECKS	396.30	100.8	416	0.60	20.52	1.55	0.03	13.28	1.76	5.60	367	27
1st SPECKS	391.30	100.6	411	1.02	25.20	1.58	0.04	16.00	2.18	6.11	412	25
1st SPECKS	386.30	100.5	412	1.59	30.46	1.95	0.05	15.67	2.67	7.30	418	27
1st SPECKS	381.30	100.3	413	0.78	18.95	1.56	0.04	12.15	1.64	5.06	375	31
1st SPECKS	376.30	100.5	410	1.56	30.52	2.00	0.05	15.26	2.67	7.34	416	27
1st SPECKS	360.70	101.3	421	0.30	5.39	2.33	0.05	2.31	0.47	2.31	233	100
05-22-34-1W3 (1-57) U.S. BORAX & CHEMICAL C-179955												
PENSE	517.60	101.3	431	0.07	1.41	0.45	0.05	3.13	0.12	1.11	127	41
PENSE	515.50	101.0	433	0.02	0.87	2.97	0.02	0.29	0.07	0.69	127	433
JOLI FOU	507.80	100.9	427	0.20	4.67	0.67	0.04	7.03	0.40	1.40	335	47
JOLI FOU	506.80	101.2	421	0.03	0.30	0.50	0.08	0.73	0.02	1.21	25	41
JOLI FOU	505.80	100.4	419	0.00	0.08	0.55	0.00	0.19	0.00	0.16	52	348
JOLI FOU	504.50	101.4	412	0.02	0.14	0.28	0.13	0.48	0.01	0.77	18	39
JOLI FOU	502.80	100.6	416	0.04	0.16	0.62	0.20	0.26	0.01	0.64	25	98
JOLI FOU	501.80	100.5	415	0.09	0.19	0.22	0.32	0.88	0.02	0.70	30	33
JOLI FOU	499.60	101.9	410	0.03	0.09	0.78	0.28	0.11	0.01	0.33	25	237
JOLI FOU	498.60	100.7	397	0.01	0.07	0.31	0.15	0.22	0.00	0.40	20	85
JOLI FOU	497.50	100.6	415	0.01	0.09	0.17	0.10	0.55	0.00	0.43	23	43
JOLI FOU	496.50	100.7	318	0.00	0.01	1.29	0.00	0.00	0.00	0.30	3	470
JOLI FOU	494.50	100.4	417	0.00	0.08	0.08	0.00	0.93	0.00	0.43	18	20
JOLI FOU	493.50	101.1	420	0.00	0.11	0.85	0.00	0.13	0.01	0.51	23	185
JOLI FOU	492.60	100.5	421	0.01	0.10	0.29	0.04	0.34	0.01	0.37	27	79
JOLI FOU	491.20	53.1	370	0.01	0.05	0.33	0.01	0.15	0.01	0.41	12	81
JOLI FOU	490.10	100.9	424	0.02	0.31	0.35	0.06	0.88	0.02	0.86	35	40
JOLI FOU	489.10	102.5	423	0.02	0.20	0.32	0.08	0.62	0.01	0.73	27	43
JOLI FOU	488.10	100.5	421	0.02	0.14	0.28	0.11	0.49	0.01	0.73	19	37
JOLI FOU	487.10	101.9	422	0.01	0.18	0.34	0.06	0.53	0.01	0.78	23	43
JOLI FOU	486.10	101.3	417	0.02	0.12	0.35	0.14	0.34	0.01	0.73	16	48
JOLI FOU	485.10	100.7	420	0.01	0.14	0.36	0.07	0.39	0.01	0.72	19	50
JOLI FOU	484.10	100.4	425	0.01	0.14	0.26	0.07	0.52	0.01	0.76	18	34
JOLI FOU	483.10	101.7	390	0.00	0.02	0.70	0.00	0.02	0.00	0.34	4	209
JOLI FOU	482.10	101.2	424	0.01	0.16	0.29	0.06	0.56	0.01	0.74	21	38
JOLI FOU	481.10	100.6	426	0.01	0.10	0.27	0.09	0.37	0.01	0.55	18	50
JOLI FOU	480.20	101.3	423	0.03	0.21	0.28	0.12	0.75	0.02	0.85	25	33
JOLI FOU	479.10	101.0	423	0.02	0.19	0.33	0.10	0.57	0.01	0.77	24	43
JOLI FOU	478.20	101.4	423	0.02	0.22	0.29	0.09	0.75	0.02	0.78	27	36
VIKING	476.25	101.0	430	0.03	0.47	0.34	0.06	1.38	0.04	0.92	51	37
VIKING	475.25	101.2	429	0.06	0.70	0.37	0.07	1.90	0.06	1.21	57	30
VIKING	474.50	101.5	429	0.05	0.80	0.32	0.06	2.52	0.07	1.38	57	23
WESTGATE	473.20	101.6	429	0.06	0.91	0.57	0.06	1.59	0.08	1.62	56	35
WESTGATE	472.20	100.2	429	0.04	0.81	0.42	0.05	1.93	0.07	1.58	51	26

TABLE 3 - ROCK EVAL DATA

FORMATION	DEPTH (m)	QTY	TMAX	S 1	S 2	S 3	P I	S2/S3	P C	TOC	H I	O I
WESTGATE	471.20	100.7	430	0.06	0.91	0.51	0.07	1.79	0.08	1.52	59	33
WESTGATE	470.00	101.4	428	0.04	0.64	0.47	0.06	1.36	0.05	1.56	41	30
WESTGATE	468.90	100.9	429	0.04	0.73	0.30	0.05	2.42	0.06	1.34	54	22
WESTGATE	467.90	102.2	428	0.03	0.78	0.35	0.04	2.26	0.06	1.67	46	21
WESTGATE	466.80	101.5	428	0.02	0.73	0.24	0.02	3.04	0.06	1.33	55	18
WESTGATE	465.80	101.4	420	0.05	0.74	0.33	0.06	2.24	0.06	1.68	44	20
WESTGATE	464.80	100.7	433	0.04	1.08	0.65	0.04	1.67	0.09	1.52	71	42
WHITE SPECKS	398.20	101.0	412	1.49	31.09	1.84	0.05	16.89	2.71	8.18	380	22
WHITE SPECKS	397.20	100.5	414	1.12	26.88	1.58	0.04	17.01	2.33	6.67	403	23
WHITE SPECKS	396.20	101.7	413	1.23	28.76	1.79	0.04	16.06	2.50	7.31	393	24
WHITE SPECKS	395.20	102.2	414	1.27	29.68	1.93	0.04	15.47	2.58	7.94	374	24
WHITE SPECKS	394.20	101.0	422	0.62	17.01	1.09	0.04	15.68	1.46	4.16	409	26
WHITE SPECKS	393.20	100.9	415	1.10	23.93	1.65	0.04	14.55	2.08	6.12	391	27
WHITE SPECKS	392.50	100.6	413	0.73	13.57	1.65	0.05	8.25	1.19	4.42	307	37
WHITE SPECKS	390.20	100.7	415	0.82	15.37	1.58	0.05	9.72	1.35	4.41	349	35
WHITE SPECKS	388.00	100.8	415	0.77	14.88	1.64	0.05	9.10	1.30	4.36	341	37
WHITE SPECKS	387.00	101.2	411	0.96	21.17	1.91	0.04	11.11	1.84	6.04	350	31
WHITE SPECKS	385.90	100.3	411	0.94	19.85	2.08	0.05	9.54	1.73	6.24	318	33
WHITE SPECKS	384.90	101.5	413	1.22	19.81	2.45	0.06	8.36	1.75	5.74	345	43
WHITE SPECKS	383.90	100.9	417	0.53	9.05	2.95	0.05	3.07	0.79	4.86	186	61
WHITE SPECKS	382.90	100.4	419	0.40	11.41	2.03	0.03	5.63	0.98	4.67	244	43
WHITE SPECKS	382.00	100.5	409	0.39	6.41	1.38	0.06	4.66	0.56	3.05	210	45
WHITE SPECKS	381.13	100.6	409	2.65	38.19	2.33	0.06	16.49	3.40	9.92	385	23
11-36-22-1W2 (1-52) S.W.P BREDENBURY												
JOLI FOU	349.30	101.3	420	0.05	0.68	0.17	0.07	3.97	0.06	1.27	53	13
JOLI FOU	348.80	101.5	418	0.03	0.34	0.57	0.08	0.60	0.03	1.07	32	53
VIKING	343.80	100.5	419	0.28	1.62	0.43	0.15	3.77	0.16	2.03	79	21
VIKING	340.50	100.6	419	0.23	1.11	0.89	0.17	1.25	0.11	1.57	71	56
WESTGATE	336.30	100.7	422	0.11	0.39	0.56	0.22	0.69	0.04	1.20	32	47
WESTGATE	332.60	100.7	420	0.16	0.76	1.03	0.18	0.73	0.07	1.71	44	60
WESTGATE	328.10	101.2	422	0.27	1.83	0.69	0.13	2.67	0.17	2.64	69	26
WESTGATE	321.80	100.5	428	0.09	1.14	0.43	0.08	2.67	0.10	1.69	67	25
WESTGATE	316.80	100.6	414	0.10	1.19	0.55	0.08	2.20	0.10	1.81	65	30
WESTGATE	311.80	100.7	409	0.70	10.42	1.31	0.06	7.99	0.93	5.09	204	26
FISH SCALES	309.70	101.5	414	0.30	2.65	0.80	0.10	3.30	0.24	2.34	113	34
BELLE FOURCHE	296.70	100.7	411	0.50	5.75	1.16	0.08	4.95	0.52	3.91	147	29
BELLE FOURCHE	291.70	100.6	406	0.60	8.02	1.26	0.07	6.39	0.71	4.20	191	30
BELLE FOURCHE	290.80	100.9	408	0.67	8.98	1.51	0.07	5.95	0.80	4.95	181	30
BELLE FOURCHE	288.90	100.3	418	1.19	22.07	2.13	0.05	10.38	1.93	5.51	401	38
BELLE FOURCHE	287.00	100.3	413	1.59	30.37	1.96	0.05	15.50	2.66	7.22	421	27
BELLE FOURCHE	285.10	100.0	410	1.78	37.74	2.44	0.05	15.46	3.29	8.99	419	27
BELLE FOURCHE	283.20	101.0	409	1.85	29.59	2.43	0.06	12.17	2.62	7.87	375	30
BELLE FOURCHE	281.30	101.4	417	1.29	20.24	1.75	0.06	11.58	1.79	4.88	415	36
BELLE FOURCHE	279.40	100.6	410	1.92	30.47	2.09	0.06	14.58	2.70	8.17	373	25
2nd SPECKS	277.50	100.9	407	3.23	36.32	2.55	0.08	14.25	3.29	8.14	446	31
2nd SPECKS	275.60	100.7	412	0.25	4.85	1.22	0.05	3.99	0.42	1.40	346	87
2nd SPECKS	273.70	100.4	417	0.17	2.10	0.93	0.08	2.26	0.19	0.82	255	113
2nd SPECKS	272.70	100.3	401	4.55	46.40	2.54	0.09	18.26	4.24	10.20	455	25
2nd SPECKS	270.90	100.2	401	4.58	53.99	2.57	0.08	21.03	4.88	12.62	429	20
2nd SPECKS	268.90	100.2	405	6.28	51.91	2.31	0.11	22.47	4.84	11.95	434	19

TABLE 3 - ROCK EVAL DATA

FORMATION	DEPTH (m)	QTY	TMAX	S 1	S 2	S 3	P I	S2/S3	P C	TOC	H I	O I
2nd SPECKS	266.90	100.3	403	4.09	43.39	2.32	0.09	18.70	3.95	10.26	423	22
2nd SPECKS	264.90	100.1	404	1.78	17.36	1.86	0.09	9.33	1.59	4.65	374	40
2nd SPECKS	262.30	100.5	406	2.20	32.30	2.54	0.07	12.77	2.87	7.23	447	35
2nd SPECKS	260.30	100.7	396	1.58	16.14	2.27	0.09	7.13	1.48	9.14	177	24
MORDEN	258.30	100.6	411	1.14	17.71	1.59	0.06	11.27	1.57	6.46	274	24
MORDEN	256.30	101.1	401	0.76	8.30	3.89	0.09	2.13	0.75	6.91	120	56
MORDEN	255.40	100.6	401	1.09	10.60	4.08	0.09	2.59	0.97	7.91	134	52
MORDEN	253.90	100.4	400	1.05	7.24	3.42	0.13	2.12	0.69	6.75	107	50
MORDEN	252.40	100.2	398	0.63	4.53	3.32	0.12	1.36	0.43	6.21	73	53
MORDEN	250.80	100.9	404	0.63	3.64	2.82	0.15	1.29	0.35	5.15	70	54
MORDEN	249.30	102.8	398	0.90	7.29	3.09	0.11	2.36	0.68	6.75	108	46
1st SPECKS	247.49	101.9	412	2.39	28.74	3.67	0.08	7.84	2.59	9.11	316	40
1st SPECKS	247.02	101.5	412	0.62	9.19	2.05	0.07	4.47	0.82	2.87	320	71
1st SPECKS	246.65	101.2	410	3.85	45.04	4.22	0.08	10.69	4.07	12.17	370	34
1st SPECKS	244.65	101.0	414	1.47	25.36	3.46	0.06	7.34	2.23	6.78	374	51
1st SPECKS	242.65	101.2	416	1.04	17.76	3.47	0.06	5.12	1.57	5.51	323	63
1st SPECKS	240.65	100.5	413	0.12	0.79	0.79	0.14	1.00	0.07	0.89	88	89
1st SPECKS	235.65	100.4	415	1.93	39.68	3.32	0.05	11.97	3.46	7.98	497	41
1st SPECKS	230.65	102.0	415	1.79	30.38	3.65	0.06	8.32	2.68	7.51	405	48
1st SPECKS	225.65	100.0	413	1.67	26.92	2.77	0.06	9.74	2.38	7.50	359	37
1st SPECKS	220.65	101.1	413	2.70	40.69	5.15	0.06	7.90	3.61	10.39	391	49
1st SPECKS	215.50	100.1	422	1.14	29.48	3.33	0.04	8.91	2.55	8.02	367	41
LEA PARK	210.50	101.5	427	0.15	1.00	0.76	0.13	1.32	0.10	1.69	59	44
LEA PARK	205.50	101.3	420	0.22	0.94	0.56	0.19	1.67	0.10	1.64	57	34
LEA PARK	200.50	100.3	427	0.20	1.88	0.81	0.09	2.32	0.17	2.16	87	37
LEA PARK	195.40	100.6	420	0.16	0.79	0.69	0.17	1.14	0.07	1.59	49	43

CRIPPLE CREEK

BLACKSTONE	301	100.3	457	0.37	1.77	0.41	0.17	4.31	0.17	1.56	113	26
BLACKSTONE	291	100.35	457	0.47	1.57	0.33	0.23	4.86	0.17	1.21	130	27
BLACKSTONE	281	101.25	454	0.14	0.38	0.42	0.27	0.90	0.04	0.49	87	91
BLACKSTONE	271	101.3	456	0.40	1.66	0.43	0.20	3.86	0.17	1.51	110	28
BLACKSTONE	261	101	459	0.30	1.03	0.53	0.23	1.96	0.11	1.29	79	40
BLACKSTONE	251	100.15	455	0.34	1.10	0.57	0.24	1.96	0.12	1.24	89	45
BLACKSTONE	241	100.9	457	0.37	1.53	0.35	0.20	4.43	0.16	1.52	101	23
BLACKSTONE	231	100.9	458	0.30	1.61	0.75	0.16	2.15	0.16	1.92	84	39
BLACKSTONE	221	101.05	455	0.41	1.12	0.55	0.27	2.04	0.12	0.97	115	57
BLACKSTONE	211	100.3	457	0.35	0.70	0.46	0.34	1.52	0.09	0.71	98	65
BLACKSTONE	201	101.3	461	0.02	0.05	0.34	0.33	0.14	0.00	0.12	41	283
BLACKSTONE	191	100.95	457	0.04	0.17	0.29	0.20	0.59	0.01	0.28	60	103
BLACKSTONE	181	101.1	469	0.04	0.11	0.39	0.27	0.28	0.01	0.20	57	200
BLACKSTONE	171	101	461	0.03	0.16	0.40	0.17	0.40	0.01	0.22	74	186
BLACKSTONE	161	101.45	456	0.14	0.25	0.20	0.36	1.29	0.03	0.31	82	64
BLACKSTONE	151	101.05	455	0.20	0.73	0.35	0.21	2.08	0.07	1.02	72	34
BLACKSTONE	141	100.35	456	0.13	0.56	0.20	0.19	2.97	0.06	0.65	85	30
BLACKSTONE	131	101.5	458	0.05	0.15	0.18	0.26	0.85	0.01	0.15	103	121
BLACKSTONE	121	100.65	458	0.23	0.60	0.26	0.28	2.34	0.07	0.74	80	34
BLACKSTONE	83	100.6	461	0.06	0.37	0.22	0.13	1.68	0.03	0.68	55	32
BLACKSTONE	77	100.4	464	0.05	0.30	0.23	0.15	1.33	0.03	0.39	78	58

TABLE 3 - ROCK EVAL DATA

FORMATION	DEPTH (m)	QTY	TMAX	S 1	S 2	S 3	P I	S2/S3	P C	TOC	H I	O I
BLACKSTONE	62.25	100.25	468	0.08	0.36	0.25	0.19	1.45	0.03	0.54	66	46
BLACKSTONE	60	101.05	473	0.03	0.21	0.43	0.13	0.49	0.02	0.34	61	127
BLACKSTONE	55	100.9	467	0.05	0.29	0.17	0.14	1.71	0.03	0.66	44	26
BLACKSTONE	50.5	100.3	472	0.01	0.19	0.18	0.06	1.04	0.01	0.54	34	34
BLACKSTONE	47	100.1	468	0.03	0.20	0.12	0.12	1.63	0.01	0.49	40	24
BLACKSTONE	42.5	100.8	465	0.02	0.33	0.15	0.06	2.28	0.02	0.72	45	20
BLACKSTONE	38	101.2	471	0.01	0.22	0.20	0.05	1.08	0.01	0.52	41	38
BLACKSTONE	33	101.5	470	0.01	0.27	0.38	0.02	0.72	0.02	0.58	47	64
BLACKSTONE	28	100.4	462	0.08	0.63	0.31	0.12	2.01	0.06	1.09	57	28
BLACKSTONE	23	100.5	461	0.16	0.70	0.21	0.18	3.34	0.07	1.21	58	17
BLACKSTONE	16.45	100.95	468	0.06	0.37	0.29	0.14	1.28	0.03	0.81	46	36
BLACKSTONE	12.85	101	466	0.04	0.55	0.33	0.06	1.65	0.04	1.15	47	28
BLACKSTONE	12	100.4	464	0.05	0.43	0.16	0.11	2.69	0.04	0.93	46	17
BLACKSTONE	11	100.15	467	0.06	0.37	0.42	0.14	0.88	0.03	0.84	44	50
BLACKSTONE	10	100.75	465	0.05	0.30	0.23	0.15	1.28	0.02	0.76	38	30
BLACKSTONE	9	102.15	467	0.06	0.43	0.24	0.12	1.77	0.04	0.87	49	27
BLACKSTONE	8	100.65	464	0.08	0.70	0.31	0.10	2.26	0.06	1.32	53	24
BLACKSTONE	7	102.15	465	0.09	0.71	0.32	0.12	2.25	0.06	1.40	51	22
BLACKSTONE	6	101.45	469	0.08	0.56	0.38	0.13	1.46	0.05	1.25	44	30
BLACKSTONE	5	101.5	468	0.08	0.48	0.22	0.14	2.20	0.05	1.01	47	21
BLACKSTONE	4	100.8	463	0.09	0.54	0.57	0.14	0.96	0.05	0.95	57	59
BLACKSTONE	3.8	100.65	464	0.07	0.45	0.51	0.13	0.88	0.04	0.97	46	52
HIGHWOOD RIVER												
BLACKSTONE	69.0	100.3	454	0.13	0.46	0.16	0.22	2.87	0.04	0.66	69	24
BLACKSTONE	60.0	101.0	451	0.15	0.83	0.21	0.15	3.95	0.08	0.86	96	24
BLACKSTONE	55.0	100.6	454	0.55	1.59	0.28	0.26	5.67	0.17	1.58	100	17
BLACKSTONE	50.0	100.4	452	0.34	0.86	0.24	0.28	3.58	0.10	0.96	89	25
BLACKSTONE	45.0	100.2	455	0.33	2.03	0.36	0.14	5.63	0.19	1.74	116	20
BLACKSTONE	44.5	100.4	453	0.51	1.54	0.35	0.25	4.40	0.17	1.37	112	25
BLACKSTONE	44.0	101.4	454	0.34	1.15	0.25	0.23	4.60	0.12	0.99	116	25
BLACKSTONE	43.0	100.9	460	0.14	0.28	0.66	0.33	0.42	0.03	0.37	75	178
BLACKSTONE	42.0	100.0	456	0.43	1.33	0.27	0.24	4.92	0.14	1.27	104	21
BLACKSTONE	41.0	100.6	452	0.52	1.99	0.38	0.21	5.23	0.20	1.42	140	26
BLACKSTONE	40.0	103.1	450	0.77	3.40	0.46	0.19	7.39	0.34	1.99	170	23
BLACKSTONE	39.0	100.9	451	0.44	2.67	0.45	0.14	5.93	0.25	1.80	148	25
BLACKSTONE	38.0	102.2	452	0.50	2.27	0.40	0.18	5.67	0.23	1.87	121	21
BLACKSTONE	37.0	100.0	450	0.66	3.65	0.25	0.15	14.60	0.35	2.54	143	9
BLACKSTONE	36.0	100.0	449	0.28	1.03	0.12	0.22	8.58	0.10	0.80	128	15
BLACKSTONE	35.0	100.5	454	0.16	0.61	0.22	0.21	2.77	0.06	0.57	107	38
BLACKSTONE	34.0	100.1	454	0.56	2.51	0.51	0.18	4.92	0.25	1.48	169	34
BLACKSTONE	33.8	101.3	455	0.27	1.06	0.35	0.20	3.02	0.11	0.95	111	36
BLACKSTONE	33.5	100.0	454	0.13	0.52	0.25	0.20	2.08	0.05	0.53	98	47
BLACKSTONE	33.0	100.9	451	1.29	10.62	0.48	0.11	22.12	0.99	3.83	277	12
BLACKSTONE	32.5	102.0	450	1.37	12.30	0.50	0.10	24.60	1.13	4.41	278	11
BLACKSTONE	32.0	100.5	451	1.28	9.90	0.54	0.11	18.33	0.93	4.78	207	11
BLACKSTONE	31.5	101.7	449	0.94	14.72	0.80	0.06	18.40	1.30	5.06	290	15
BLACKSTONE	31.0	101.1	450	1.11	11.05	0.43	0.09	25.69	1.01	3.92	281	10
BLACKSTONE	30.5	100.8	447	0.90	10.92	0.41	0.08	26.63	0.98	4.31	253	9
BLACKSTONE	30.0	103.1	450	1.46	14.91	0.50	0.09	29.82	1.36	5.30	281	9
BLACKSTONE	29.5	102.4	452	1.35	11.77	0.36	0.10	32.69	1.09	4.23	278	8

TABLE 3 - ROCK EVAL DATA

FORMATION	DEPTH (m)	QTY	TMAX	S 1	S 2	S 3	P I	S2/S3	P C	TOC	H I	O I
BLACKSTONE	29.0	100.7	446	1.32	12.84	0.38	0.09	33.78	1.18	5.11	251	7
BLACKSTONE	28.5	100.5	442	0.88	6.00	0.40	0.13	15.00	0.57	3.55	169	11
BLACKSTONE	28.0	100.4	446	0.90	4.05	0.39	0.18	10.38	0.41	2.33	173	16
BLACKSTONE	27.5	102.0	447	0.69	3.94	0.33	0.15	11.93	0.38	2.49	158	13
BLACKSTONE	27.3	101.1	450	0.50	1.81	0.29	0.22	6.24	0.19	1.51	119	19
BLACKSTONE	27.0	100.7	446	0.21	1.12	0.20	0.16	5.60	0.11	1.26	88	15
BLACKSTONE	26.8	100.5	449	0.15	0.38	0.11	0.29	3.45	0.04	0.65	58	16
BLACKSTONE	26.5	100.0	448	0.11	0.37	0.15	0.23	2.46	0.04	0.64	57	23
BLACKSTONE	26.0	101.6	449	0.33	1.04	0.23	0.24	4.52	0.11	1.39	74	16
BLACKSTONE	25.0	100.2	449	0.28	1.47	0.20	0.16	7.35	0.14	1.42	103	14
BLACKSTONE	24.0	103.9	451	0.18	0.39	0.14	0.32	2.78	0.04	0.70	55	20
BLACKSTONE	23.0	100.9	445	0.51	2.71	0.35	0.16	7.74	0.26	2.21	122	15
BLACKSTONE	22.0	100.7	439	0.10	0.43	0.08	0.19	5.37	0.04	0.76	56	10
BLACKSTONE	21.0	100.9	446	0.17	0.60	0.28	0.22	2.14	0.06	1.43	41	19
BLACKSTONE	20.0	101.3	442	0.11	0.43	0.22	0.20	1.95	0.04	1.25	34	17
BLACKSTONE	14.0	100.5	443	0.77	2.58	0.29	0.23	8.89	0.27	1.90	135	15
BLACKSTONE	13.0	100.8	449	0.48	0.96	0.21	0.33	4.57	0.12	1.23	78	17
BLACKSTONE	12.0	101.2	446	0.41	1.66	0.24	0.20	6.91	0.17	1.82	91	13
BLACKSTONE	11.0	100.5	441	0.17	0.54	0.08	0.24	6.75	0.05	1.33	40	6
BLACKSTONE	10.0	100.3	442	0.11	0.14	0.06	0.46	2.33	0.02	0.38	36	15
BLACKSTONE	9.0	101.5	451	0.07	0.27	0.07	0.21	3.85	0.02	0.45	60	15
BLACKSTONE	8.0	100.4	447	0.10	0.25	0.08	0.29	3.12	0.02	0.48	52	16
BLACKSTONE	7.0	102.1	452	0.06	0.37	0.08	0.14	4.62	0.03	0.70	52	11
BLACKSTONE	6.0	100.1	449	0.07	0.25	0.01	0.22	25.00	0.02	0.58	43	1
BLACKSTONE	5.0	100.3	449	0.04	0.20	0.08	0.17	2.50	0.02	0.48	41	16
BLACKSTONE	4.0	100.4	446	0.06	0.17	0.07	0.27	2.42	0.01	0.42	40	16
BLACKSTONE	3.0	103.3	449	0.09	0.36	0.10	0.20	3.60	0.03	0.83	43	12
BLACKSTONE	2.0	100.9	448	0.06	0.38	0.19	0.14	2.00	0.03	0.79	48	24
BLACKSTONE	1.0	100.6	450	0.05	0.27	0.09	0.16	3.00	0.02	0.63	42	14
BRUIN CREEK												
BLACKSTONE	41.0	101.4	451	0.32	3.05	1.03	0.10	2.97	0.28	2.71	112	38
BLACKSTONE	40.5	101.8	450	0.49	4.29	0.64	0.11	6.81	0.40	2.65	162	24
BLACKSTONE	40.0	101.6	450	0.66	5.81	0.55	0.10	10.59	0.54	2.87	202	19
BLACKSTONE	39.5	100.6	451	0.68	4.43	0.57	0.14	7.86	0.42	2.39	185	23
BLACKSTONE	39.0	101.2	448	0.65	4.84	0.74	0.12	6.59	0.46	3.06	159	24
BLACKSTONE	38.5	101.1	450	1.13	11.27	0.52	0.09	22.01	1.03	4.41	256	11
BLACKSTONE	38.0	100.3	448	0.85	8.40	0.55	0.09	15.27	0.77	3.74	225	14
BLACKSTONE	37.5	100.5	449	0.86	7.07	0.58	0.11	12.20	0.66	3.39	209	17
BLACKSTONE	37.0	102.0	449	0.76	5.51	0.63	0.12	8.82	0.52	3.02	182	20
BLACKSTONE	36.5	100.9	451	0.45	3.91	1.69	0.10	2.31	0.36	3.12	125	54
BLACKSTONE	36.0	100.1	448	0.55	4.14	1.48	0.12	2.80	0.39	2.83	146	52
BLACKSTONE	35.5	100.7	450	0.55	2.69	1.01	0.17	2.67	0.27	1.94	139	52
BLACKSTONE	35.0	100.6	451	0.46	4.03	1.51	0.10	2.68	0.37	3.00	134	50
BLACKSTONE	34.5	102.5	450	0.55	4.72	1.37	0.11	3.45	0.44	3.13	151	43
BLACKSTONE	34.2	100.6	453	0.19	2.12	2.19	0.08	1.00	0.19	2.60	81	84
BLACKSTONE	34.2	101.6	455	0.23	0.69	0.88	0.25	1.58	0.08	1.04	66	77
BLACKSTONE	34.0	100.8	453	0.21	0.55	0.45	0.26	1.24	0.06	0.70	79	63
BLACKSTONE	33.0	100.5	460	0.03	0.20	0.51	0.13	0.39	0.02	0.54	37	94
BLACKSTONE	32.0	100.5	456	0.12	0.58	0.28	0.18	2.14	0.06	0.95	61	29
BLACKSTONE	31.0	100.6	457	0.05	0.26	0.38	0.16	0.68	0.02	0.80	32	48

TABLE 3 - ROCK EVAL DATA

FORMATION	DEPTH (m)	QTY	TMAX	S 1	S 2	S 3	P I	S2/S3	P C	TOC	H I	O I
BLACKSTONE	30.0	100.1	457	0.04	0.15	0.25	0.23	0.62	0.02	0.47	31	52
BLACKSTONE	29.0	100.3	459	0.03	0.13	0.21	0.17	0.62	0.01	0.40	32	53
BLACKSTONE	28.3	100.4	459	0.08	0.30	0.20	0.21	1.50	0.03	0.72	42	28
BLACKSTONE	27.3	100.6	458	0.07	0.39	0.40	0.16	0.99	0.03	0.99	39	40
BLACKSTONE	22.0	101.2	453	0.01	0.10	0.77	0.05	0.13	0.00	0.45	23	172
BLACKSTONE	19.0	100.9	458	0.01	0.16	0.38	0.06	0.42	0.01	0.58	28	66
BLACKSTONE	18.0	102.3	425	0.01	0.07	0.16	0.15	0.42	0.00	0.31	21	51
BLACKSTONE	17.0	101.8	454	0.03	0.25	0.13	0.12	1.96	0.02	0.60	41	21
BLACKSTONE	16.0	101.6	461	0.01	0.14	0.06	0.07	2.33	0.01	0.47	29	12
BLACKSTONE	15.0	102.0	456	0.01	0.18	0.09	0.06	2.00	0.01	0.56	32	16
BLACKSTONE	14.0	100.8	460	0.03	0.25	0.14	0.10	1.77	0.02	0.64	38	22
BLACKSTONE	13.0	101.8	464	0.02	0.12	0.10	0.11	1.23	0.01	0.43	26	22
BLACKSTONE	12.0	101.8	457	0.03	0.19	0.10	0.15	1.91	0.01	0.53	36	19
BLACKSTONE	11.0	100.8	459	0.06	0.40	0.25	0.14	1.59	0.04	0.95	41	26
BLACKSTONE	10.0	100.3	459	0.02	0.10	0.10	0.17	1.05	0.01	0.39	26	24
BLACKSTONE	9.0	100.8	450	0.07	0.35	0.46	0.16	0.76	0.03	0.74	47	62
BLACKSTONE	8.0	101.1	460	0.01	0.13	0.17	0.06	0.79	0.01	0.38	34	43
BLACKSTONE	7.0	101.0	456	0.04	0.29	0.44	0.11	0.65	0.02	0.75	38	58
BLACKSTONE	6.0	101.1	450	0.08	0.56	0.47	0.12	1.18	0.05	1.13	49	41
BLACKSTONE	5.0	100.9	452	0.05	0.48	0.58	0.09	0.82	0.04	1.10	43	52
BLACKSTONE	4.0	100.6	452	0.09	0.54	0.25	0.15	2.17	0.05	1.13	48	22
BLACKSTONE	3.0	101.1	452	0.12	1.03	0.21	0.11	5.03	0.09	1.57	65	13
BLACKSTONE	2.0	101.1	456	0.05	0.31	0.29	0.14	1.24	0.03	0.73	42	39
BLACKSTONE	1.0	101.3	458	0.06	0.32	0.19	0.17	1.73	0.03	0.77	41	24
BLACKSTONE	0.0	101.2	456	0.10	0.43	0.34	0.19	1.28	0.04	0.89	48	38
MILL CREEK												
BLACKSTONE	15	100.7	431	0.79	8.53	0.82	0.09	10.47	0.77	3.29	260	25
BLACKSTONE	14	100.35	430	0.89	10.86	0.84	0.08	12.92	0.98	3.97	273	21
BLACKSTONE	13	102	431	1.08	12.52	0.93	0.08	13.52	1.13	4.38	286	21
BLACKSTONE	12	101.7	431	0.68	9.82	1.00	0.07	9.81	0.87	3.47	283	29
BLACKSTONE	11	100.95	431	0.88	12.36	1.04	0.07	11.96	1.10	4.00	309	26
BLACKSTONE	10	100.65	432	1.11	12.46	0.65	0.08	19.32	1.13	3.61	345	18
BLACKSTONE	9	101.2	431	1.75	21.27	0.70	0.08	30.38	1.92	5.58	381	12
BLACKSTONE	8	101.9	431	1.33	20.28	0.85	0.06	23.87	1.80	5.32	381	16
BLACKSTONE	7	101.1	433	1.60	19.15	0.76	0.08	25.20	1.73	5.09	376	15
BLACKSTONE	6	101.4	432	1.18	15.32	0.76	0.07	20.39	1.37	4.64	330	16
BLACKSTONE	5	102.35	430	1.32	12.56	0.53	0.10	24.05	1.15	3.99	315	13
BLACKSTONE	4	101.8	432	1.65	17.26	0.68	0.09	25.62	1.58	4.67	369	14
BLACKSTONE	3	102	431	0.93	8.03	0.66	0.10	12.44	0.74	3.35	240	19
BLACKSTONE	2	100.5	431	0.58	1.32	0.77	0.31	1.74	0.15	1.43	92	53
BLACKSTONE	1	100.8	436	0.27	3.34	0.63	0.07	5.35	0.30	2.39	140	26