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Rapport/Report

Fortrolig/ Confidential <input checked="" type="checkbox"/>	Tittel/Forfatter(e) Title/Author(s)	Sign. <i>B.D.</i>
Fordeling/Distribution J. Augustson, HA (10) R. Steel (1) E. Nysæther (1) A. Bjørseth (1) B. Dahl (1) Arkiv	<p>Source Rock Analysis of Cretaceous Sections Well 7117/9-1 and 7117/9-2 by B. Dahl</p> <p>Coworkers: A. Steen, G.C. Speers, L. Aakvaag</p>	

Resyme/Konklusjon/Anbefaling
Summary/Conclusion Recommendation

The Cretaceous sections from two wells at Senjaryggen have been analysed by Rock-Eval pyrolysis and TOC.

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**REGISTRERT
OLJEDIREKTORATET**

Emneord/Key words Source rock evaluation, Rock-Eval TOC.		Emnekategori/Subject category Petroleum Geochemistry	
Divisjon Seksjon Avdeling Division Section Dept Geology	Kvadrant Blokk Brønn Quadrant Block - Well 7117/9	Dato/Date 20.05.85 Side/Pages - Appendix - Figs. 5 Tables 2 - Encl. 2	
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Table 1. Source rock data, Well 7117/9-1

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0 DEPTH m	2 S1 kg/tonn	3 S2 kg/tonn	4 S3 kg/tonn	5 PI	6 OI	7 HI	8 Tmax C	9 TOC %
1 2048	0.03	0.25	1.03	0.11	87.3	21.2	409	1.180
2 2058	0.01	0.24	0.91	0.04	78.4	20.7	412	1.165
3 2075	0.06	0.12	1.37	0.33	123.4	10.8	285	1.110
4 2085	0.02	0.22	0.96	0.08	96.0	22.0	409	1.000
5 2110	0.08	0.40	0.97	0.17	86.6	35.7	402	1.120
6 2120	0.02	0.30	0.81	0.06	72.3	26.8	412	1.120
7 2150	0.04	0.32	0.92	0.11	85.2	29.6	414	1.075
8 2160	0.00	0.21	0.88	0.00	72.7	17.4	413	1.210
9 2170	0.02	0.27	0.85	0.07	88.5	28.1	409	0.960
10 2190	0.02	0.30	0.72	0.06	66.7	27.8	416	1.080
11 2200	0.01	0.31	0.84	0.03	73.7	27.2	422	1.140
12 2210	0.01	0.30	0.71	0.03	64.5	27.3	422	1.100
13 2220	0.01	0.26	0.74	0.04	64.9	22.8	422	1.140
14 2235	0.01	0.25	0.72	0.04	67.3	23.4	420	1.070
15 2248	0.02	0.36	0.76	0.05	67.9	32.1	420	1.120
16 2255	0.02	0.28	0.82	0.07	78.1	26.7	413	1.050
17 2265	0.01	0.29	0.85	0.03	22.7	66.4	420	1.280
18 2280	0.01	0.28	0.84	0.03	70.6	23.5	418	1.190
19 2290	0.02	0.25	0.85	0.07	69.1	20.3	420	1.230
20 2300	0.02	0.29	0.91	0.06	79.1	25.2	423	1.150
21 2308	0.02	0.36	1.33	0.05	85.8	23.2	422	1.550
22 2325	0.00	0.18	1.38	0.00	101.5	13.2	399	1.360
23 2335	0.03	0.43	1.13	0.07	77.9	29.7	419	1.450
24 2345	0.02	0.39	0.82	0.05	70.7	33.6	419	1.160
25 2355	0.02	0.34	0.73	0.06	55.7	26.0	423	1.310
26 2373	0.05	0.30	0.98	0.14	98.0	30.0	411	1.000
27 2383	0.05	0.25	1.05	0.17	100.0	23.8	330	1.050
28 2393	0.02	0.40	0.63	0.05	59.4	37.7	422	1.060
29 2415	0.02	0.28	0.62	0.07	53.9	24.3	422	1.150
30 2425	0.03	0.36	0.76	0.08	62.3	29.5	423	1.220
31 2435	0.07	0.22	0.90	0.24	84.1	20.6	360	1.070
32 2445	0.01	0.30	0.60	0.03	50.0	25.0	423	1.200
33 2458	0.01	0.47	0.72	0.02	67.3	43.9	422	1.070
34 2468	0.04	0.33	0.61	0.11	58.7	31.7	421	1.040
35 2478	0.05	0.35	0.65	0.13	58.0	31.2	422	1.120
36 2485	0.04	0.22	0.66	0.15	56.9	19.0	426	1.160
37 2505	0.02	0.23	0.69	0.08	65.7	21.9	421	1.050
38 2515	0.07	0.30	0.83	0.19	78.3	28.3	370	1.060
39 2525	0.07	0.32	0.65	0.18	60.2	29.6	423	1.080
40 2535	0.04	1.15	0.78	0.03	71.6	105.5	443	1.090
41 2545	0.07	0.37	0.64	0.16	52.9	30.6	420	1.215
42 2555	0.05	0.38	0.72	0.12	56.7	29.9	424	1.270
43 2565	0.04	0.36	0.57	0.10	47.1	29.8	422	1.210
44 2595	0.03	0.27	0.57	0.10	66.3	31.4	424	0.860
45 2605	0.07	0.21	0.62	0.25	18.3	53.9	425	1.150
46 2615	0.03	0.29	0.56	0.09	63.6	33.0	420	0.880
47 2625	0.00	0.25	0.69	0.00	58.0	21.0	425	1.190
48 2640	0.00	0.32	0.72	0.00	65.5	29.1	428	1.105
49 2650	0.03	0.38	0.80	0.07	67.8	32.2	429	1.180
50 2660	0.00	0.18	0.87	0.00	87.0	18.0	425	1.005
51 2685	0.01	0.23	0.43	0.04	40.6	21.7	423	1.060
52 2695	0.01	0.21	0.53	0.05	55.8	22.1	422	0.950
53 2703	0.00	0.20	0.45	0.00	50.0	22.2	424	0.900
54 2730	0.21	1.03	0.94	0.17	200.0	219.1	465	0.470

Table 1. Cont.

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0 DEPTH m	2 S1 kg/tonn	3 S2 kg/tonn	4 S3 kg/tonn	5 PI	6 OI	7 HI	8 Tmax C	9 TOC %
55 2750	0.08	0.83	1.08	0.09	124.1	95.4	469	0.870
56 2788	0.00	0.27	0.81	0.00	84.4	28.1	427	0.960
57 2798	0.01	0.31	0.54	0.03	65.1	37.3	423	0.830
58 2820	0.00	0.32	0.51	0.00	49.0	30.8	428	1.045
59 2830	0.02	0.31	0.76	0.06	80.9	33.0	430	0.940
60 2840	0.00	0.30	0.54	0.00	52.4	29.1	422	1.030
61 2850	0.06	0.65	0.94	0.08	101.1	69.9	460	0.930
62 2888	0.01	0.23	0.51	0.04	54.8	24.7	426	0.930
63 2898	0.02	0.29	0.68	0.06	66.0	28.2	431	1.030
64 2910	0.01	0.23	0.39	0.04	44.3	26.1	426	0.880
65 2920	0.05	0.28	0.40	0.15	45.5	31.8	426	0.880
66 2940	0.01	0.19	0.29	0.05	33.0	21.6	427	0.880
67 2970	0.01	0.13	0.64	0.07	72.7	14.8	444	0.880
68 2980	0.01	0.14	0.71	0.07	78.0	15.4	298	0.910
69 3000	0.01	0.18	0.80	0.05	89.9	20.2	445	0.895
70 3013	0.02	0.19	0.88	0.10	98.9	21.3	408	0.890
71 3030	0.03	0.16	0.90	0.16	92.8	16.5	442	0.970
72 3040	0.02	0.13	0.62	0.13	61.4	12.9	366	1.010
73 3060	0.03	0.22	1.10	0.12	103.8	20.8	444	1.060
74 3070	0.00	0.12	0.67	0.00	65.0	11.7	374	1.035
75 3090	0.01	0.14	0.57	0.07	62.0	15.2	435	0.920
76 3100	0.01	0.20	0.38	0.05	39.6	20.8	431	0.960
77 3120	0.01	0.18	0.46	0.05	50.5	19.8	433	0.910
78 3130	0.00	0.15	0.67	0.00	73.6	16.5	358	0.910
79 3150	0.02	0.14	0.55	0.12	59.1	15.1	326	0.930
80 3160	0.03	0.19	0.50	0.14	50.0	19.0	421	1.000
81 3180	0.03	0.17	0.82	0.15	85.4	17.7	393	0.960
82 3190	0.01	0.15	0.43	0.06	46.7	16.3	432	0.920
83 3200	0.01	0.22	0.44	0.04	46.8	23.4	426	0.940

Table 2. Source rock data, Well 7117/9-2

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0 DEPTH m	2 S1 kg/tonn	3 S2 kg/tonn	4 S3 kg/tonn	5 P ^r	6 OI	7 HI	8 Tmax C	9 TOC %
1 1395.0	0.07	0.00	0.43	1.00	95.6	0.0	441	0.450
2 1405.0	0.05	0.01	0.47	0.83	97.9	2.1	418	0.480
3 1415.0	0.04	0.00	0.60	1.00	127.6	0.0	440	0.470
4 1425.0	0.06	0.20	0.56	0.23	121.7	43.5	258	0.460
5 1435.0	0.11	0.29	0.74	0.28	148.0	58.0	247	0.500
6 1445.0	0.05	0.32	0.65	0.14	86.2	57.1	398	0.560
7 1455.0	0.07	0.45	0.63	0.13	101.6	72.6	389	0.620
8 1465.0	0.13	0.68	0.68	0.16	70.1	70.1	411	0.970
9 1475.0	0.05	0.57	0.89	0.08	97.8	62.6	408	0.910
10 1485.0	0.09	0.66	0.79	0.12	76.7	64.1	405	1.030
11 1495.0	0.10	0.76	1.02	0.12	77.9	58.0	415	1.310
12 1505.0	0.07	0.71	0.78	0.09	51.3	46.7	415	1.520
13 1515.0	0.07	0.74	0.83	0.09	53.2	47.4	416	1.560
14 1525.0	0.03	0.47	0.92	0.06	61.7	31.5	416	1.490
15 1535.0	0.13	0.68	0.89	0.16	57.1	43.6	421	1.560
16 1545.0	0.07	0.60	0.91	0.10	58.7	38.7	420	1.550
17 1555.0	0.07	0.64	0.72	0.10	50.3	44.8	420	1.430
18 1565.0	0.05	0.60	0.81	0.08	54.0	40.0	421	1.500
19 1575.0	0.03	0.57	0.77	0.05	45.8	33.9	420	1.680
20 1585.0	0.05	0.57	0.77	0.08	48.7	36.1	421	1.580
21 1595.0	0.08	0.81	0.86	0.09	51.5	48.5	419	1.670
22 1605.0	0.12	0.70	1.08	0.15	70.1	45.5	422	1.540
23 1615.0	0.04	0.63	0.95	0.06	69.3	46.0	414	1.370
24 1625.0	0.06	0.70	0.70	0.08	49.6	49.6	418	1.410
25 1640.0	0.04	0.61	0.61	0.06	30.0	30.0	424	2.030
26 1650.0	0.05	0.58	0.61	0.08	42.4	40.3	421	1.445
27 1660.0	0.05	0.62	0.68	0.07	45.3	41.3	419	1.500
28 1670.0	0.05	0.61	0.64	0.08	47.4	45.2	421	1.350
29 1680.0	0.03	0.50	0.75	0.06	56.4	37.6	420	1.330
30 1690.0	0.05	0.68	0.94	0.07	64.8	46.9	418	1.450
31 1700.0	0.04	0.58	0.76	0.06	51.4	39.2	421	1.480
32 1710.0	0.03	0.52	0.58	0.05	42.0	37.7	421	1.380
33 1720.0	0.04	0.57	0.79	0.07	42.9	31.0	421	1.840
34 1730.0	0.03	0.52	0.62	0.05	45.3	38.0	421	1.370
35 1740.0	0.03	0.44	0.56	0.06	46.3	36.4	416	1.210
36 1750.0	0.06	0.69	0.81	0.08	61.4	52.3	418	1.320
37 1760.0	0.03	0.65	0.78	0.04	51.0	42.5	422	1.530
38 1770.0	0.09	0.88	0.83	0.09	52.5	55.7	421	1.585
39 1780.0	0.01	0.59	0.75	0.02	48.7	38.3	421	1.540
40 1790.0	0.05	0.86	0.80	0.05	53.7	57.7	426	1.490
41 1800.0	0.02	0.70	0.64	0.03	42.7	46.7	425	1.500
42 1810.0	0.06	0.57	1.42	0.10	92.2	37.0	422	1.540
43 1820.0	0.02	0.41	1.01	0.05	65.2	26.5	423	1.550
44 1830.0	0.02	0.56	0.75	0.03	46.0	34.4	423	1.630
45 1840.0	0.02	0.38	1.41	0.05	87.6	23.6	415	1.610
46 1850.0	0.02	0.27	1.28	0.07	88.9	18.7	422	1.440
47 1860.0	0.03	0.49	0.71	0.06	48.3	33.3	421	1.470
48 1870.0	0.10	0.68	0.82	0.13	59.9	49.6	384	1.370
49 1880.0	0.08	0.80	0.83	0.09	52.2	50.3	425	1.590
50 1890.0	0.03	0.53	0.88	0.05	60.7	36.6	418	1.450
51 1900.0	0.03	0.27	1.33	0.10	93.7	19.0	325	1.420
52 1910.0	0.03	0.50	0.76	0.06	55.9	36.8	422	1.360
53 1920.0	0.03	0.37	0.86	0.08	49.1	21.1	426	1.750
54 1930.0	0.02	0.35	0.66	0.05	50.0	26.5	424	1.320

Table 2. Cont.

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0 DEPTH m	2 S1 kg/tonn	3 S2 kg/tonn	4 S3 kg/tonn	5 PI	6 OI	7 HI	8 Tmax C	9 TOC %
55 1940.0	0.01	0.35	1.07	0.03	70.4	23.0	423	1.525
56 1950.0	0.02	0.27	1.02	0.07	66.2	17.5	431	1.540
57 1960.0	0.03	0.67	0.82	0.04	53.6	43.8	422	1.530
58 1970.0	0.06	0.53	0.53	0.10	36.1	36.1	428	1.470
59 1980.0	0.04	0.58	0.63	0.06	41.7	38.4	431	1.510
60 1990.0	0.05	0.54	1.28	0.08	79.5	33.5	410	1.610
61 2000.0	0.07	0.82	0.88	0.08	62.9	58.6	423	1.405
62 2010.0	0.09	0.92	0.81	0.09	56.6	64.3	422	1.430
63 2016.0	0.06	0.86	0.66	0.07	44.3	57.7	424	1.490
64 2025.0	0.05	1.90	1.04	0.03	61.9	113.1	445	1.680
65 2035.0	0.06	0.61	1.20	0.09	77.9	39.6	409	1.540
66 2045.0	0.06	0.57	1.72	0.10	104.2	34.8	408	1.645
67 2055.0	0.04	0.66	0.60	0.06	37.3	41.0	433	1.610
68 2065.0	0.03	0.55	0.77	0.05	49.4	35.3	428	1.560
69 2075.0	0.03	0.51	0.73	0.06	45.3	31.7	428	1.610
70 2085.0	0.02	0.40	0.66	0.05	44.3	26.8	429	1.490
71 2095.0	0.03	0.24	1.28	0.11	87.1	16.3	438	1.470
72 2105.0	0.04	0.46	0.70	0.08	49.6	32.9	427	1.405
73 2115.0	0.04	0.44	0.66	0.08	50.8	33.8	428	1.300
74 2127.0	0.01	0.42	0.73	0.02	51.0	29.4	429	1.430
75 2135.0	0.01	0.45	0.82	0.02	61.7	33.8	428	1.330
76 2142.0	0.01	0.23	1.59	0.04	111.2	16.1	427	1.430
77 2150.0	0.02	0.26	1.58	0.07	105.3	17.3	431	1.500
78 2157.0	0.03	0.29	0.87	0.09	61.3	20.4	421	1.420
79 2169.5	0.07	0.07	0.29	0.50	38.2	9.2	358	0.760
80 2177.0	0.02	0.21	0.63	0.09	54.3	18.1	423	1.160
81 2185.0	0.04	0.28	0.66	0.12	51.2	21.7	424	1.290
82 2192.0	0.02	0.24	0.52	0.08	42.6	19.7	423	1.220
83 2202.0	0.03	0.29	0.53	0.09	36.1	19.7	427	1.470
84 2212.0	0.05	0.29	0.61	0.15	47.7	22.7	422	1.280
85 2220.0	0.07	0.34	0.69	0.17	50.7	25.0	423	1.360
86 2227.0	0.03	0.32	0.64	0.09	46.7	23.4	423	1.370
87 2235.0	0.04	0.38	0.67	0.10	46.9	26.6	424	1.435
88 2242.0	0.07	0.30	0.54	0.19	40.9	22.7	429	1.320
89 2250.0	0.06	0.27	0.55	0.18	45.1	22.1	422	1.220
90 2257.0	0.05	0.24	0.63	0.17	52.5	20.0	423	1.200
91 2262.0	0.06	0.32	0.64	0.16	53.3	26.7	423	1.200
92 2270.0	0.03	0.29	0.75	0.09	56.8	22.0	425	1.320
93 2277.0	0.02	0.43	0.87	0.04	63.0	31.2	435	1.380
94 2285.0	0.02	0.28	0.66	0.07	46.8	19.9	424	1.410
95 2292.0	0.04	0.34	0.69	0.11	48.3	23.8	422	1.430
96 2305.0	0.05	0.18	0.48	0.22	40.0	15.0	433	1.200
97 2312.0	0.03	0.23	0.60	0.12	47.2	18.1	424	1.275
98 2320.0	0.03	0.29	0.78	0.09	60.0	22.3	421	1.300
99 2327.0	0.01	0.28	0.68	0.03	51.5	21.2	422	1.320
100 2335.0	0.03	0.29	0.68	0.09	53.1	22.7	423	1.280
101 2341.0	0.04	0.25	0.46	0.14	29.7	16.1	440	1.550
102 2350.0	0.03	0.22	0.68	0.12	50.7	16.4	428	1.345
103 2357.0	0.02	0.28	0.61	0.07	43.3	19.9	423	1.410
104 2367.5	0.03	0.26	0.42	0.10	26.9	16.7	428	1.560
105 2375.0	0.07	0.24	0.62	0.23	43.4	16.8	417	1.430
106 2382.0	0.02	0.26	0.58	0.07	40.0	17.9	723	1.450
107 2390.0	0.05	0.22	0.61	0.19	46.2	16.7	411	1.320
108 2397.0	0.07	0.23	0.67	0.23	50.4	17.3	389	1.330

Table 2. Cont.

0 DEPTH m	2 S1 kg/tonn	3 S2 kg/tonn	4 S3 kg/tonn	5 PI	6 OI	7 HI	8 Tmax C	9 TOC %	
109	2405.0	0.06	0.31	0.79	0.16	59.0	23.1	421	1.340
110	2412.0	0.09	0.42	0.89	0.18	60.1	28.4	420	1.480
111	2420.0	0.04	0.30	0.57	0.12	38.5	20.3	426	1.480
112	2427.0	0.06	0.45	0.74	0.12	48.4	29.4	424	1.530
113	2435.0	0.05	0.31	0.87	0.14	61.7	22.0	421	1.410
114	2442.0	0.03	0.11	0.88	0.21	59.1	7.4	373	1.490
115	2450.0	0.01	0.09	0.66	0.10	46.2	6.3	343	1.430
116	2457.0	0.03	0.16	0.77	0.16	50.3	10.5	268	1.530
117	2465.0	0.04	0.19	0.78	0.17	50.6	12.3	276	1.540
118	2474.5	0.16	0.20	0.59	0.44	37.3	12.7	329	1.580
119	2485.0	0.02	0.17	0.80	0.11	49.1	10.4	441	1.630
120	2492.0	0.05	0.29	0.89	0.15	54.6	17.8	417	1.630
121	2500.0	0.05	0.23	0.93	0.18	55.0	13.6	417	1.690
122	2507.0	0.11	0.18	0.69	0.38	37.3	9.7	359	1.850
123	2515.0	0.03	0.24	0.98	0.11	57.6	14.1	327	1.700
124	2522.0	0.03	0.25	1.16	0.11	65.9	14.2	371	1.760
125	2529.5	0.07	0.25	0.72	0.22	37.7	13.1	419	1.910
126	2537.0	0.04	0.24	0.83	0.14	50.0	14.5	359	1.660
127	2545.0	0.03	0.20	0.98	0.13	55.1	11.2	334	1.780
128	2552.0	0.02	0.19	0.93	0.10	45.6	9.3	435	2.450
129	2559.5	0.05	0.15	0.60	0.25	33.5	8.4	399	1.790
130	2567.0	0.07	0.28	0.83	0.20	50.0	16.9	363	1.660
131	2575.0	0.03	0.18	0.73	0.14	43.7	10.8	371	1.670
132	2582.0	0.03	0.27	0.81	0.10	50.0	16.7	424	1.620
133	2590.0	0.06	0.19	0.77	0.24	42.8	10.6	438	1.800
134	2599.0	0.04	0.12	0.42	0.25	18.8	5.4	465	2.230
135	2607.0	0.05	0.15	0.89	0.25	48.9	8.2	415	1.820
136	2615.0	0.08	0.22	0.77	0.27	41.6	11.9	334	1.850
137	2622.0	0.04	0.08	1.05	0.33	57.1	4.3	441	1.840
138	2630.0	0.06	0.22	0.75	0.21	43.9	12.9	407	1.710
139	2637.0	0.04	0.20	0.93	0.17	49.7	10.7	334	1.870
140	2645.0	0.02	0.25	0.77	0.07	44.5	14.5	409	1.730
141	2655.5	0.03	0.14	0.50	0.18	26.2	7.3	301	1.910
142	2662.0	0.05	0.14	0.53	0.26	34.2	9.0	392	1.550
143	2670.0	0.04	0.18	0.55	0.18	33.5	11.0	351	1.640
144	2680.0	0.03	0.12	0.67	0.20	37.0	6.6	326	1.810
145	2690.0	0.03	0.19	0.65	0.14	39.4	11.5	354	1.650
146	2700.0	0.01	0.18	0.85	0.05	47.0	9.9	415	1.810
147	2706.0	0.07	0.27	0.68	0.21	30.1	11.9	426	2.260
148	2712.0	0.05	0.24	0.79	0.17	42.5	12.9	418	1.860
149	2720.5	0.08	0.35	0.61	0.19	33.3	19.1	408	1.830
150	2730.0	0.10	0.50	0.83	0.17	39.5	23.8	424	2.100
151	2737.0	0.08	0.46	0.68	0.15	32.9	22.2	429	2.070
152	2745.0	0.05	0.37	0.61	0.12	29.0	17.6	432	2.100
153	2752.0	0.06	0.49	0.59	0.11	26.7	22.2	433	2.210
154	2760.0	0.15	0.76	0.37	0.16	15.5	31.8	437	2.390
155	2767.0	0.10	0.60	0.58	0.14	28.4	29.4	433	2.040
156	2775.0	0.07	0.38	0.40	0.16	22.1	21.0	436	1.810
157	2782.0	0.09	0.45	0.45	0.17	24.7	24.7	433	1.825
158	2790.0	0.07	0.52	0.64	0.12	31.2	25.4	435	2.050
159	2795.0	0.19	0.84	0.48	0.18	19.4	34.0	448	2.470
160	2805.0	0.08	0.54	0.84	0.13	41.4	26.6	433	2.030
161	2812.0	0.08	0.70	0.91	0.10	38.2	29.4	436	2.380
162	2823.0	0.13	0.76	0.41	0.15	13.1	24.4	444	3.120

Table 2. Cont.

0 DEPTH m	2 S1 kg/tonn	3 S2 kg/tonn	4 S3 kg/tonn	5 FI	6 OI	7 HI	8 Tmax C	9 TOC %
109 2405.0	0.06	0.31	0.79	0.16	59.0	23.1	421	1.340
110 2412.0	0.09	0.42	0.89	0.18	60.1	28.4	420	1.480
111 2420.0	0.04	0.30	0.57	0.12	38.5	20.3	426	1.480
112 2427.0	0.06	0.45	0.74	0.12	48.4	29.4	424	1.530
113 2435.0	0.05	0.31	0.87	0.14	61.7	22.0	421	1.410
114 2442.0	0.03	0.11	0.88	0.21	59.1	7.4	373	1.490
115 2450.0	0.01	0.09	0.66	0.10	46.2	6.3	343	1.430
116 2457.0	0.03	0.16	0.77	0.16	50.3	10.5	268	1.530
117 2465.0	0.04	0.19	0.78	0.17	50.6	12.3	276	1.540
118 2474.5	0.16	0.20	0.59	0.44	37.3	12.7	329	1.580
119 2485.0	0.02	0.17	0.80	0.11	49.1	10.4	441	1.630
120 2492.0	0.05	0.29	0.89	0.15	54.6	17.8	417	1.630
121 2500.0	0.05	0.23	0.93	0.18	55.0	13.6	417	1.690
122 2507.0	0.11	0.18	0.69	0.38	37.3	9.7	359	1.850
123 2515.0	0.03	0.24	0.98	0.11	57.6	14.1	327	1.700
124 2522.0	0.03	0.25	1.16	0.11	65.9	14.2	371	1.760
125 2529.5	0.07	0.25	0.72	0.22	37.7	13.1	419	1.910
126 2537.0	0.04	0.24	0.83	0.14	50.0	14.5	359	1.660
127 2545.0	0.03	0.20	0.98	0.13	55.1	11.2	334	1.780
128 2552.0	0.02	0.19	0.93	0.10	45.6	9.3	435	2.450
129 2559.5	0.05	0.15	0.60	0.25	33.5	8.4	399	1.790
130 2567.0	0.07	0.28	0.83	0.20	50.0	16.9	363	1.660
131 2575.0	0.03	0.18	0.73	0.14	43.7	10.8	371	1.670
132 2582.0	0.03	0.27	0.81	0.10	50.0	16.7	424	1.620
133 2590.0	0.06	0.19	0.77	0.24	42.8	10.6	438	1.800
134 2599.0	0.04	0.12	0.42	0.25	18.8	5.4	465	2.230
135 2607.0	0.05	0.15	0.89	0.25	48.9	8.2	415	1.820
136 2615.0	0.08	0.22	0.77	0.27	41.6	11.9	334	1.850
137 2622.0	0.04	0.08	1.05	0.33	57.1	4.3	441	1.840
138 2630.0	0.06	0.22	0.75	0.21	43.9	12.9	407	1.710
139 2637.0	0.04	0.20	0.93	0.17	49.7	10.7	334	1.870
140 2645.0	0.02	0.25	0.77	0.07	44.5	14.5	409	1.730
141 2655.5	0.03	0.14	0.50	0.18	26.2	7.3	301	1.910
142 2662.0	0.05	0.14	0.53	0.26	34.2	9.0	392	1.550
143 2670.0	0.04	0.18	0.55	0.18	33.5	11.0	351	1.640
144 2680.0	0.03	0.12	0.67	0.20	37.0	6.6	326	1.810
145 2690.0	0.03	0.19	0.65	0.14	39.4	11.5	354	1.650
146 2700.0	0.01	0.18	0.85	0.05	47.0	9.9	415	1.810
147 2706.0	0.07	0.27	0.68	0.21	30.1	11.9	426	2.260
148 2712.0	0.05	0.24	0.79	0.17	42.5	12.9	418	1.860
149 2720.5	0.08	0.35	0.61	0.19	33.3	19.1	408	1.830
150 2730.0	0.10	0.50	0.83	0.17	39.5	23.8	424	2.100
151 2737.0	0.08	0.46	0.68	0.15	32.9	22.2	429	2.070
152 2745.0	0.05	0.37	0.61	0.12	29.0	17.6	432	2.100
153 2752.0	0.06	0.49	0.59	0.11	26.7	22.2	433	2.210
154 2760.0	0.15	0.76	0.37	0.16	15.5	31.8	437	2.390
155 2767.0	0.10	0.60	0.58	0.14	28.4	29.4	433	2.040
156 2775.0	0.07	0.38	0.40	0.16	22.1	21.0	436	1.810
157 2782.0	0.09	0.45	0.45	0.17	24.7	24.7	433	1.825
158 2790.0	0.07	0.52	0.64	0.12	31.2	25.4	435	2.050
159 2795.0	0.19	0.84	0.48	0.18	19.4	34.0	448	2.470
160 2805.0	0.08	0.54	0.84	0.13	41.4	26.6	433	2.030
161 2812.0	0.08	0.70	0.91	0.10	38.2	29.4	436	2.380
162 2823.0	0.13	0.76	0.41	0.15	13.1	24.4	444	3.120

Table 2. Cont.

0 DEPTH m	2 S1 kg/tonn	3 S2 kg/tonn	4 S3 kg/tonn	5 PI	6 OI	7 HI	8 Tmax C	9 TOC %
163 2830.0	0.12	0.83	0.72	0.13	30.1	34.7	433	2.390
164 2837.0	0.11	0.65	0.64	0.14	28.3	28.8	437	2.260
165 2845.5	0.21	0.71	0.45	0.23	17.2	27.2	440	2.610
166 2852.0	0.13	0.72	0.89	0.15	35.0	28.3	436	2.540
167 2860.0	0.12	0.68	0.92	0.15	35.8	26.5	434	2.570
168 2870.0	0.07	0.64	0.63	0.10	25.2	25.6	436	2.490
169 2880.0	0.10	0.58	0.43	0.15	23.2	31.4	434	1.850
170 2891.0	0.12	0.89	0.41	0.12	14.5	31.4	449	2.830
171 2900.0	0.10	0.67	0.57	0.13	24.2	28.4	442	2.360
172 2907.0	0.10	0.57	0.48	0.15	20.7	24.6	438	2.320
173 2915.5	0.15	0.82	0.40	0.15	16.0	32.8	448	2.500
174 2925.0	0.15	0.83	0.75	0.15	31.5	34.9	442	2.385
175 2932.0	0.15	0.77	0.49	0.16	23.2	36.5	436	2.110
176 2940.0	0.12	0.64	0.50	0.16	22.2	28.4	438	2.250
177 2952.0	0.22	0.69	0.49	0.24	21.1	29.7	449	2.320
178 2960.0	0.16	0.67	0.74	0.19	35.6	32.2	439	2.080
179 2967.0	0.16	0.75	0.46	0.18	21.5	35.0	439	2.140
180 2975.0	0.14	0.66	0.50	0.17	23.5	31.0	437	2.130
181 2985.0	0.17	1.02	1.42	0.14	54.8	39.4	438	2.590
182 2992.0	0.10	0.97	1.10	0.09	41.2	36.3	437	2.670
183 2997.5	0.19	0.88	0.37	0.18	11.7	27.8	441	3.160
184 3007.0	0.14	0.92	0.59	0.13	24.1	37.6	442	2.450
185 3015.0	0.08	0.65	0.73	0.11	33.2	29.5	441	2.205
186 3022.0	0.06	0.35	0.82	0.15	40.2	17.2	445	2.040
187 3030.0	0.08	0.33	0.99	0.20	44.8	14.9	429	2.210
188 3037.0	0.12	0.33	0.79	0.27	38.3	16.0	423	2.060
189 3042.0	0.16	0.48	0.66	0.25	28.1	20.4	433	2.350
190 3050.0	0.11	0.53	0.67	0.17	30.9	24.4	431	2.170
191 3060.0	0.12	0.46	0.78	0.21	36.3	21.4	431	2.150
192 3070.0	0.13	0.48	0.63	0.21	29.2	22.2	428	2.160
193 3075.0	0.13	0.44	0.79	0.23	35.1	19.6	431	2.250
194 3084.0	0.07	0.32	0.36	0.18	21.1	18.7	403	1.710
195 3095.0	0.06	0.36	0.61	0.14	30.3	17.9	431	2.010
196 3105.0	0.14	0.37	0.63	0.27	35.4	20.8	414	1.785
197 3115.0	0.04	0.27	0.83	0.13	43.9	14.3	427	1.890
198 3125.0	0.08	0.25	0.33	0.24	28.9	21.9	414	1.140
199 3139.0	0.10	0.23	0.37	0.30	30.1	18.7	349	1.230
200 3150.0	0.13	0.50	1.11	0.21	54.4	24.5	415	2.040
201 3475.1	0.18	0.84	0.46	0.18	16.3	29.8	440	2.825
202 3676.8	0.37	1.00	0.77	0.27	24.4	31.6	458	3.160

ADDITIONAL ANALYSES

WELL 7117/9-2

Norsk Hydro A/S

09 17 84

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10 additional samples from well 7117/9-2 from the interval 1410-2910m have undergone lithological description, are picked and then analysed for TOC content. Three of the samples, from 1710m, 1800m and 2910m, consist of two different, equally important lithologies, and two TOC-measurements are undertaken on these samples (A and B). The data are presented in table 1.



Lithology and Total Organic Carbon measurements

TABLE NO.: 1.
WELL NO.: 7117/9-2

Sample	Depth (m)	TOC	Lithology
A-6093	1410	0.45	98% Claystone, light grey, with some irregular grey laminae
A-6099	1500	0.27	95% Claystone, light grey, slightly bioturbated 3% Claystone, grey, laminated
A-6113	1710	2.31 0.46	50% Siltstone, grey 40% Sandstone, very fine grained 10% Claystone, light grey (caved)
A-6119	1800	2.10 0.74	50% Siltstone/Claystone, grey 10% Sandstone, very fine grained 40% Claystone, light grey (caved)
A-6126	1905	2.08	75% Siltstone, grey 8% Sandstone, very fine grained 18% Claystone, light grey (caved)
A-7791	2100	2.0	98% Claystone, silty, grey, slightly bioturbated
A-7806	2310	1.51	98% Siltstone/Claystone, grey, slightly bioturbated, grading up into very fine Sandstone
A-7826	2610	1.65	90% Siltstone/Claystone, grey 10% Sandstone, very fine and greenish grey Mudstone traces of siderite and calcite crystals
A-7832	2700	1.47	98% Claystone/Siltstone, grey
A-7846	2910	1.84 3.07	50% Siltstone/Claystone, grey 50% Claystone/Siltstone, grey to dark grey

**IKU**

Visual Kerogen Analysis

TABLE NO.: 2.
WELL NO.: 7117/9-2

Sample	Depth (m)	Composition of residue	Particle size	Preservation palynomorphs	Thermal maturation index	Remarks
A-7785	2010	W, P, S, Cut, WR!/Am, Cy	F-M-L	fair	1/1+	Abundant structured woody particles.
A-7798	2205	W, S, P, WR!/Am, Cy	F-M-L	fair to good	1/1+, 2+	Some grey amorphous material embedding inorganic compounds. Abundant structured woody material and fairly dark angular coaly fragments. Abundant bisaccate pollen and spores.
A-7812	2400	W, P, S, Cut, WR!/Am, Cy	F-M-L	fair	1/1+, 1+	Abundant acid resistant minerals. Structured fairly dark woody material dominates as at 2010m.

ABBREVIATIONS

Am Amorphous
He Herbaceous
Cut Cuticles

Cy Cysts, algae
P Pollen grains
S Spores

W Woody material
C Coal
R! Reworked

F Fine
M Medium
L Large

**IKU**

Visual Kerogen Analysis

TABLE NO.: 2.
WELL NO.: 7117/9-2

Sample	Depth (m)	Composition of residue	Particle size	Preservation palynomorphs	Thermal maturation index	Remarks
A-7826	2610	W, S, P, Cut, WR!/Am, Cy	F-M-L	fair to poor	1/1+, 1+	Grey amorphous material with embedded acid resistant minerals. Poorly sorted sample.
A-7839	2805	W, WR!, P, S, Cut/Am, Cy	F-M	poor	2-, 2-/2	Laminated aggregates. Dark angular woody particles and structured woody particles dominate.
A-7853	3015	W, WR!, S, P, Cut/Am	F-M-L		2-/2	Aggregates of granulate grey amorphous material. Acid resistant minerals embedded. Irregular woody dark fragments dominate.

ABBREVIATIONS

Am Amorphous
He Herbaceous
Cut Cuticles

Cy Cysts, algae
P Pollen grains
S Spores

W Woody material
C Coal
RI Reworked

F Fine
M Medium
L Large

T A B L E 3.

TABULATION OF MATURITY DATA

IKU No.	DEPTH (m/ft)	VITRINITE REFLECTANCE Ro(%) and Counts			MATURATION INDEX (TAI)	FLUOR-ESCENCE
A 6106	1605	0.30(1)	0.50(22)	-	N.A.	5
A 7785	2010	0.49(22)	-	-	1/1+ *	5/6
A 7798	2205	0.49(5)	0.69(5)	-	1/1+,2+ *	5/6
A 7812	2400	N.A.	-	-	1/1+,1+ *	-
A 7819	2500	0.66(11)	-	-	N.A.	5/6
A 7826	2610	N.A.	-	-	1/1+,1+ *	-
A 7832	2700	0.79(20)*	-	-	N.A.	6/7
A 7839	2805	0.81(16)	-	-	2-,2-/2 *	6
A 7846(B)	2910	0.67(9)*	-	-	N.A.	6
A 7846(A)	2910	0.86(21)*	-	-	N.A.	7
A 7853	3015	0.74(11)	0.97(2)	-	2-/2 *	6/7
A 7860	3120	0.83(13)*	-	-	N.A.	6
A 7866	3210	0.87(4)	-	-	N.A.	6/7
A 8231	3315	1.02(16)	-	-	N.A.	7
A 8244	3510	0.99(3)	1.29(5)	-	2-/2 2	6/7
A 8395	3600	1.02(8)	1.31(2)	-	3-	6/7
B 632	3677	1.18(9)	1.43(6)	-	2-/2 2	6/7
A 8406	3780	1.41(16)	-	-	3-	7
A 8415	3915	1.25(11)	1.52(2)	-	2-/2 2	7
A 8421	4005	0.88(10)	1.34(1)	-	3-	6
A 8434	4200	1.25(6)	1.46(2)	-	2-/2 2	-
B 640	4388.10	0.82(1)	1.34(13)	1.73(2)	3-	2-/2 2
A 8454	4500	0.83(1)	1.29(2)	1.53(3)	2-/2 2	6/7
A 8461	4605	1.22(1)	1.67(1)	-	3-	-
A 8572	4800	1.65(13)	-	-	2-/2 2	-

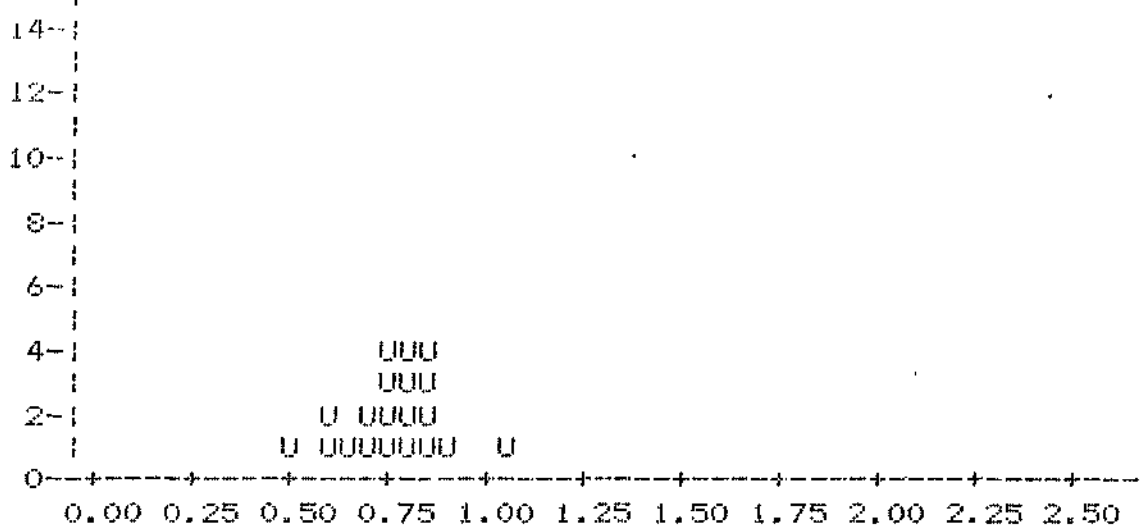
T A B L E 3.

TABULATION OF MATURITY DATA

I	:	DEPTH	:	VITRINITE REFLECTANCE			:	MATURATION	:	FLUOR-	I
I	:	IKU No.	:				:	INDEX	:	ESCENCE	I
I	:	(m/Ft)	:	Ro(%) and Counts			:	(TAI)	:		I
I	:		:				:		:		I
I	:	B 548	:	4870	:	1.52(1) 1.87(9) 2.50(1)	:	2-1/2 2	:		I
I	:		:		:	-	:	3-	:		I
I	:	A 8586	:	5010	:	1.30(8) 1.90(1)	:	2-1/2 2	:	8	I
I	:		:		:	-	:	3-	:		I

DATE : 27 - 1 - 84.

LAB# A7832 2685.04 711779 12

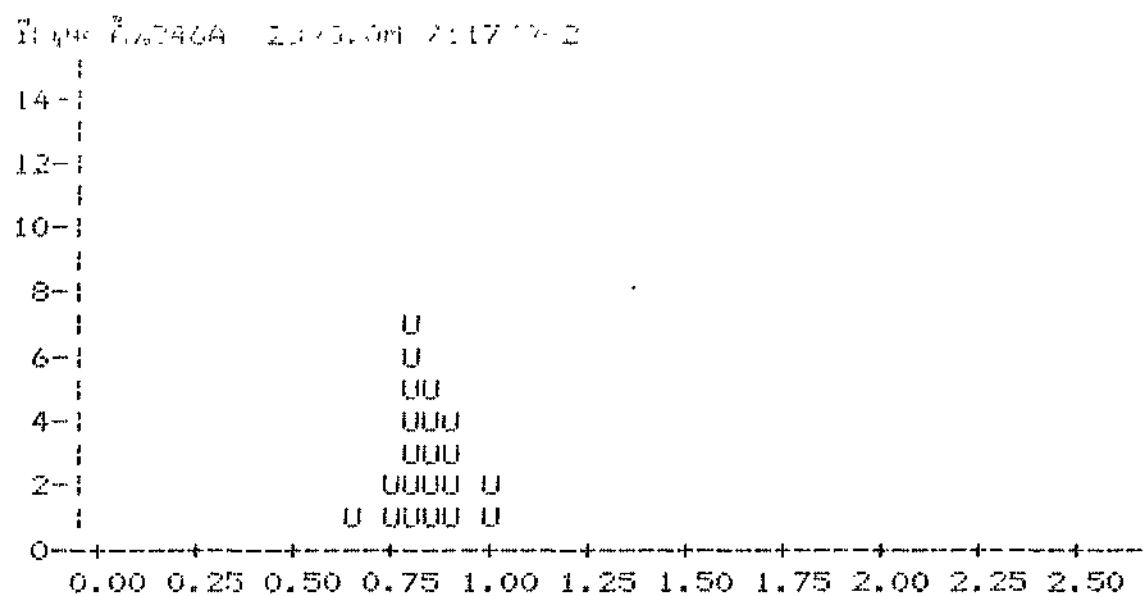


PP LOW HIGH LIT #VAL MEAN STDV
 Y 0.53 2.00 ALL 20 0.79 0.12
 OVERALL 20 0.79 0.12

ORDERED VALUES FOLLOW:

0.53U 0.63U 0.64U 0.66U 0.73U 0.73U 0.75U 0.76U 0.78U 0.79U 0.80U 0.81U 0.83U
 0.83U 0.85U 0.87U 0.88U 0.88U 0.91U 1.09U

Fig. 1a: Histograms from vitrinite reflectance analysis.



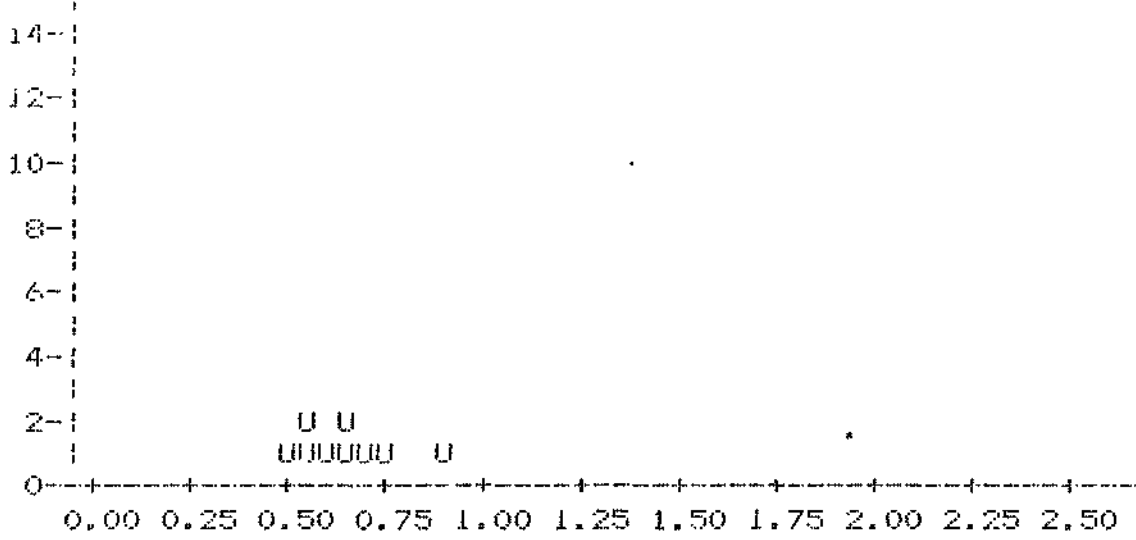
PP LOW HIGH LIT #VAL MEAN STDV
Y 0.63 1.02 ALL 21 0.86 0.08
OVERALL 21 0.86 0.08

ORDERED VALUES FOLLOW:

0.68U 0.78U 0.79U 0.80U 0.80U 0.81U 0.81U 0.82U 0.83U 0.84U 0.85U 0.88U 0.88U
0.89U 0.89U 0.91U 0.92U 0.92U 0.93U 1.00U 1.01U

Fig. 1b: Histogram from vitrinite reflectance analysis.

11 00 07640B 1025.011 711772-2



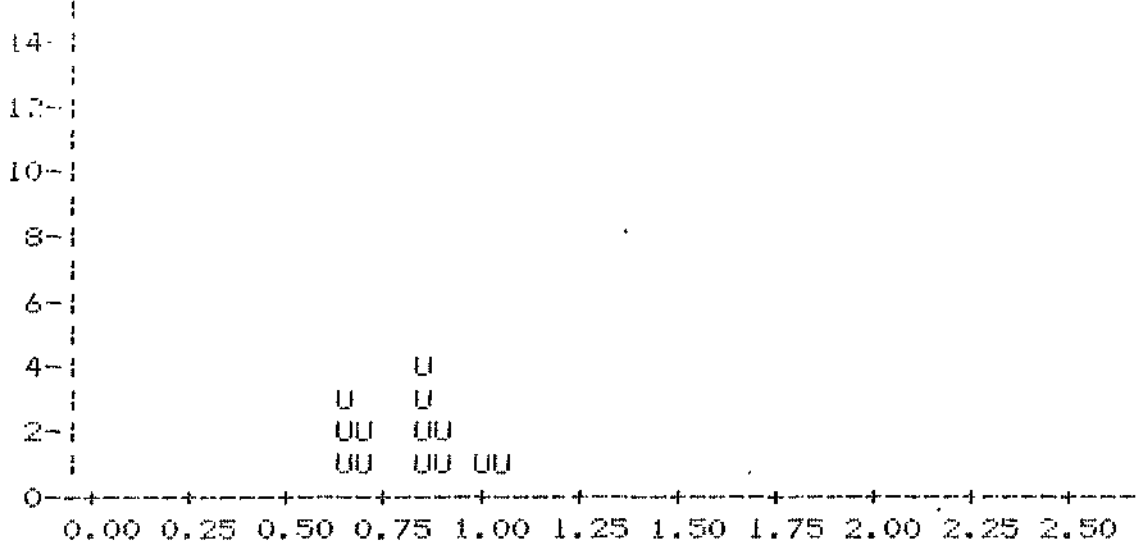
PP LOW HIGH LIT #VAL MEAN STDV
Y 0.54 1.00 ALL 9 0.67 0.12
OVERALL 9 0.67 0.12

ORDERED VALUES FOLLOW:

0.54U 0.57U 0.58U 0.60U 0.66U 0.66U 0.71U 0.79U 0.93U

Fig. 1c: Histogram from vitrinite reflectance analysis.

Fig# 1d 0 0.000000 71177 0



FP LOW HIGH LIT #VAL MEAN STDV
 Y 0.67 1.09 ALL 13 0.84 0.13
 OVERALL 13 0.84 0.13

ORDERED VALUES FOLLOW:

0.67U 0.68U 0.68U 0.73U 0.74U 0.85U 0.85U 0.86U 0.86U 0.91U 0.94U 1.01U 1.08U

Fig. 1d: Histogram from vitrinite reflectance analysis.