MOBIL EXPLORATION NORWAY INC.

WELL 35/11-6

HOLE/CASING/MUD/CEMENTING DATA

HOLE SIZE/ MUD TYPE	CASING AND THREAD	SHOE DEPTH (mRKB)	CEMENTING
36": ML–462mRKB SEAWATER/ VISCOUS PILLS	30",310 LB/FT VETCO ST2RB, & 457 LB/FT DRILQUIP H90–QS + H60–QS GRADE X–52	455	45 MT NORCEM G MIXED WITH 10.6% D124,0.1L/100KG D47, 4.44L/100KG D77, 49.23L/100KG SEAWATER AT 1.68sg (14.0ppg).
26": 462–985mRKB SEAWATER/ VISCOUS PILLS	20",133 LB/FT VETCO RL4S & DRILQUIP E–60 GRADE X–56	979	LEAD SLURRY: 28MT LITEFILL CEMENT MIXED WITH:– 2.1% BWOC PREHYDRATE D20 AT 1.56sg (13.0ppg). FOLLOWED BY 75MT NORCEM G MIXED WITH:– 2.1% BWOC PREHYDRATED D20,0.1L/100KG D47. TAIL SLURRY: 28MT NORCEM G AT 1.89sg (15.8ppg).
17.5": 985–1996mRKB KCL/POLYMER	13.375",72 LB/FT BUTTRESS GRADE N80 & L80	1988	SALTWATER FLUSH: 200 BBL LEAD SLURRY: 38MT CLASS G MIXED WITH:– 3.5% BWOC PREHYDRATED D20,0.6L/100KG D81,0.1L/100KG D47, 107.3L/I00KG FRESH WATER AT 1.5sg (12.5ppg). TAIL SLURRY: 24MT CLASS G MIXED WITH:– 0.7L/100KG D81,0.1L/100KG D47, 37.67L/100KG FRESH WATER AT 1.94sg (16.2ppg).
12.25": 1996–3310mRKB KCL/POLYMER	9.625", 53.5 LB/FT VAM/VAM ACE GRADE L80	3296	MUDPUSH XT SPACER: 176 BB LEAD SLURRY: 51.5MT CLASS G MIXED WITH:– 1.7% BWOC PREHYDRATED D20,0.1L/100KG D47,1.1L/100KG D801, 78.79 L/100KG FRESHWATER TAIL SLURRY: 14.7MT CLASS G MIXED WITH:– 0.1L/100KG D47,0.6L/100KG D81,0.6 L/100KG D801,43.26L/100KG FRESHWATER AT 1.9sg (15.8ppg).
8.5": 3310–3990mRKB KCL/POLYMER	7" LINER NOT SET		ABANDONMENT PLUGS AT:– 3990–3184 mRKB (4 SEPARATE PLUGS) 620–420 mRKB, SQUEEZE CEMENT AT 700M BETWEEN 9.625" AND 13.375" ANNULUS.

Figure 1.4

MOBIL EXPLORATION NORWAY INC.
WELL 35/11-6

RFT RESULTS

DATE/ RUN No. / TEST No.	DEPTH (mRKB) MD	DEPTH (mRKB) TVD	HYDSTAT MUD PRESSURE psia	FM PRESSURE (HP GAUGE) psia	FM PRESSURE (HP GAUGE) Mpa	TEMP deg C	REMARKS
16 MAR 92							
RUN 2A							
1	2737.0	2735.9	5008.8			86.6	TIGHT
2	2752.0	2750.9	5034.3			80.9	TIGHT
3	2754.0	2752.9	5036.6			81.8	TIGHT
4	3064.0	3062.8	5592.7			90.0	TIGHT
5	3066.5	3065.3	5595.1			90.2	SEAL FAILURE
6	3066.1	3064.9	5593.3			90.4	SEAL FAILURE
7	3072.5	3071.3	5603.3			90.8	SEAL FAILURE
8	3072.8	3071.6	5602.8			91.2	SEAL FAILURE
9	3098.5	3097.3	5647.1			94.2	TIGHT
10	3112.5	3111.3	5672.2			94.7	TIGHT
11	3113.8	3112.6	5672.7			94.9	TIGHT
12	3157.0	3155.8	5747.9			99.4	SEAL FAILURE / TIGHT
13	3157.1	3155.9	5748.1			99.4	SEAL FAILURE
14	3164.5	3163.3	5761.9			100.3	TIGHT
15	3171.0	3169.8	5772.0			100.9	TIGHT
16	3174.5	3173.3	5777.7	4787.0	33.005	101.5	GOOD PERMEABILITY
17	3180.0	3178.8	5786.5	4819.1	33.266	102.4	FAIR PERMEABILITY
18	3188.5	3187.3	5801.2	4811.6	33.174	103.1	GOOD PERMEABILITY
19	3174.5	3173.3	5772.9	4785.3	32.994	106.1	SEGREGATED SAMPLE
20	3072.0	3070.8	5593.1			95.4	NOT STABLE / PLUGGING
21	3072.2	3071.0	5591.9			95.6	SEAL FAILURE
22	3072.4	3071.2	5591.8	5586.2	38.516	95.8	GOOD PERMEABILITY
23	3072.6	3071.4	5591.4	5586.0	38.514	96.0	GOOD PERMEABILITY
24	3073.0	3071.8	5592.6	5587.1	38.522	96.3	GOOD PERMEABILITY
17 MAR 92							
RUN 2B							
25	3072.3	3071.1	5593.6	5556+	38.307	98.59	LOW PERMEABILITY – Fm Press still building
26	3072.4	3071.2	5593.8	5586.2	38.515	98.7	GOOD PERMEABILITY
27	3072.5	3071.3	5593.9	5587.7	38.522	99.0	GOOD PERMEABILITY
28	3072.6	3071.4	5590.7	5586.3	38.516	99.3	GOOD PERMEABILITY

Figure 2.13a

MOBIL EXPLORATION NORWAY INC.
WELL 35/11-6

RFT RESULTS (Continued)

DATE/ RUN No. / TEST No.	DEPTH (mRKB) MD	DEPTH (mRKB) TVD	HYDSTAT MUD PRESSURE psia	FM PRESSURE (HP GAUGE) psia	FM PRESSURE (HP GAUGE) Mpa	TEMP deg C	REMARKS
17 MAR 92							
RUN 2B							
29	3072.7	3071.5	5588.4	5586.3	38.516	100.1	SEGREGATED SAMPLE
30	3072.8	3071.6	5582.7	5437+	37.489	100.1	POOR – Appears depleted after taking sample.
31	3072.9	3071.7	5582.1	5441+	37.515	100.1	POOR – Appears depleted after taking sample.
32	3156.9	3155.7	5720.2	866+		107.2	LOW PERMEABILITY – Fm Press still building.
33	3164.7	3163.5	5735.3	5361+	36.967	107.8	LOW PERMEABILITY – Fm Press still building.
34	3175.0	3173.8	5754.8	4792.5	39.677	108.5	LOW PERMEABILITY
35	3176.9	3175.7	5758.4	5760.4	39.716	108.8	SUPERCHARGED? / SEAL-FAILURE?
36	3180.5	3179.3	5766.9	4811.0	33.171	110.1	GOOD PERMEABILITY
37	3187.8	3186.6	5780.2	4826.5	33.277	110.5	LOW PERMEABILITY
38	3192.5	3191.3	5788.4	486+		110.6	V.LOW PERMEABILITY
10 APR 92							
RUN 3C							
1	3518.0	3516.7	7454.3			114	TIGHT
2	3519.0	3517.7	7434.5			114	SEAL FAILURE
3	3519.2	3517.9	7420.2	7379+	50.878	114	LOW PERMEABILITY – Fm probably Supercharged.
4	3520.0	3518.7	7391.8			114	SEAL FAILURE
5	3520.2	3518.9	7388.8			115	TIGHT
6	3523.0	3521.7	7399.5	7248.7	49.978	115	GOOD PERMEABILITY
7	3535.5	3534.2	7419.3	7361.6	50.756	116	LOW PERMEABILITY
8	3534.5	3533.2	7417.0			116	TIGHT
9	3535.0	3533.7	7418.5	7348+	50.663	117	LOW PERMEABILITY
10	3565.3	3564.0	7480.1			117	PROBE PLUGGED
11	3565.5	3564.2	7472.3			117	TIGHT
12	3568.2	3566.9	7482.8			118	TIGHT
13	3591.6	3590.3	7524.5			119	TIGHT
14	3591.4	3590.1	7523.4			119	TIGHT
15	3601.0	3599.7	7543.0			120	TIGHT

Figure 2.13b

MOBIL EXPLORATION NORWAY INC.
WELL 35/11-6

RFT RESULTS (Continued)

DATE/ RUN No. TEST No.	DEPTH (mRKB) MD	DEPTH (mRKB) TVD	HYDSTAT MUD PRESSURE psia	FM PRESSURE (HP GAUGE) psia	FM PRESSURE (HP GAUGE) Mpa	TEMP deg C	REMARKS
10 APR 92							
RUN 3C							
16	3602.5	3601.2	7549.0	7495.3	51.678	120	FAIR PERMEABILITY
17	3609.0	3607.7	7559.4			118	TIGHT
18	3613.5	3612.2	7571.7	7503.9	54.737	120	LOW PERMEABILITY - Fm Pressure not stable.
19	3618.0	3616.7	7574.6			121	TIGHT
20	3618.2	3616.9	7578.3	7328.8	50.530	121	HP PEAKED AT 7331.3 - Retest.
21	3618.2	3616.9	7578.3	7332.1	50.553	121	LOW PERMEABILITY
22	3623.2	3621.9	7584.3	7321.4	50.479	121	GOOD PERMEABILITY
23	3629.5	3627.2	7596.5	7330.9	50.545	122	FAIR - GOOD PERM.
24	3633.5	3632.2	7604.4	7400.0	51.021	122	POOR PERMEABILITY - Possibly Supercharged.
25	3678.7	3677.4	7700.1			123	TIGHT
26	3678.5	3677.2	7694.5			123	SEAL FAILURE
27	3678.5	3677.2	7698.1	7409.6	51.087	123	FAIR PERMEABILITY
28	3683.0	3681.7	7705.7	7403.3	51.044	124	GOOD PERMEABILITY
29	3686.5	3685.2	7711.1	7405.5	51.059	124	FAIR PERMEABILITY
30	3697.0	3695.7	7726.5	7418.8	51.151	125	FAIR PERMEABILITY
31	3701.4	3700.1	7735.2	7425.1	51.194	125	GOOD PERMEABILITY
32	3706.0	3704.7	7749.8			125	TIGHT
33	3704.7	3703.4	7741.9	7429.3	51.223	126	FAIR PERMEABILITY
34	3712.5	3711.2	7760.9	7443.1	51.318	126	GOOD PERMEABILITY
35	3718.0	3716.7	7772.7			127	TIGHT
36	3715.7	3714.4	7769.1	7531.9	51.930	127	FAIR PERMEABILITY
37	3733.0	3731.7	7798.4	7504+	51.738	128	LOW PERMEABILITY - Fm Press still building.
38	3733.2	3731.9	7802.8	7493+	51.662	128	SEAL FAILURE
39	3733.5	3732.2	7805.2	7511.1	51.787	128	LOW PERMEABILITY
40	3736.0	3734.7	7806.9	7778+	53.627	129	LOW PERMEABILITY - Fm Press still building.
41	3773.5	3772.2	7876.4			132	TIGHT
42	3774.1	3772.8	7887.6			132	TIGHT
43	3774.5	3773.2	7889.6			132	TIGHT
44	3802.0	3800.7	7936.4			134	TIGHT

Figure 2.13c

MOBIL EXPLORATION NORWAY INC.
WELL 35/11-6

RFT RESULTS (Continued)

DATE/ RUN No. / TEST No.	DEPTH (mRKB) MD	DEPTH (mRKB) TVD	HYDSTAT MUD PRESSURE psia	FM PRESSURE (HP GAUGE) psia	FM PRESSURE (HP GAUGE) Mpa	TEMP deg C	REMARKS
10 APR 92							
RUN 3C							
45	3803.0	3801.7	7944.4	7680.3	52.954	134	LOW PERMEABILITYY
46	3804.0	3802.7	7946.7	7800+	53.779	134	LOW PERMEABILITY - Supercharged.
47	3810.5	3809.2	7957.0			135	TIGHT
48	3811.0	3809.7	7961.3			135	SEAL FAILURE / TIGHT
49	3826.0	3824.7	7986.4			135	SEAL FAILURE
50	3825.7	3824.4	7988.7	7618.1	52.594	135	GOOD PERMEABILITY
51	3833.0	3831.7	8003.0	7622.4	52.555	137	FAIR PREMEABILITY
52	3830.0	3828.7	7997.4	1230+	8.481	137	V.LOW PERMEABILITY
11 APR 92							
53	3855.0	3853.7	8046.0			137	TIGHT
54	3603.0	3601.7	7553.0	7489.7	51.369	126	V.LOW PERMEABILITY
55	3602.8	3601.5	7548.8			126	TIGHT
56	3602.6	3601.3	7545.7			126	TIGHT
57	3603.1	3601.8	7547.6			126	TIGHT
58	3581.3	3580.0	7504.6			125	TIGHT
59	3581.0	3579.7	7501.0			124	TIGHT
60	3580.8	3579.5	7500.5	7480+	51.573	124	V.LOW PERMEABILITY - Supercharged.
61	3535.8	3534.5	7414.2	7480+	51.573	122	TIGHT
62	3535.5	3534.2	7411.0			122	TIGHT
63	3535.3	3534.0	7410.2			122	TIGHT
64	3535.0	3533.7	7408.6			122	TIGHT
65	3534.8	3533.5	7407.7			122	TIGHT
66	3523.3	3522.0	7385.3			122	TIGHT
67	3523.2	3521.9	7384.1			122	TIGHT
68	3523.1	3521.8	7384.6			122	TIGHT
69	3523.0	3521.7	7385.4			122	TIGHT
70	3522.9	3521.6	7381.3	7294+	50.289	121	LOW PERMEABILITY - Fm probably Supercharged.
71	3522.8	3521.5	7383.5			121	TIGHT
72	3522.7	3521.4	7383.9			121	TIGHT
73	3522.5	3521.2	7383.9	7265.2	50.091	122	LOW PERMEABILITY

Figure 2.13d

MOBIL EXPLORATION NORWAY INC.
WELL 35/11-6

RFT RESULTS (Continued)

DATE/ RUN No. / TEST No.	DEPTH (mRKB) MD	DEPTH (mRKB) TVD	HYDSTAT MUD PRESSURE psia	FM PRESSURE (HP GAUGE) psia	FM PRESSURE (HP GAUGE) Mpa	TEMP deg C	REMARKS
11 APR 92							
RUN 3C							
74	3522.6	3521.3	7383.4	6939+	47.845	122	LOW PERMEABILITYY - Fm Press still building.
75	3522.4	3521.1	7380.7	7261.4	50.965	123	GOOD PERMEABILITY - Segregated Sample.
76	3520.0	3518.7	7375.9			123	TIGHT
77	3519.5	3518.2	7376.7			123	TIGHT
78	3518.5	3517.2	7373.9			123	TIGHT

Figure 2.13e

MOBIL EXPLORATION NORWAY INC. — REPEAT FORMATION TESTING WORKSHEET

WELL: 35/11-6 | FIELD: Wildcat | LOCATION: Norway | RIG: Sovereign Explorer

DATE: 16/03/92 | LOGGING Co: Schlumberger | RUN No: 2A | GAUGE: HP

GEOLOGIST: Howes/Kelman | MUD TYPE: KCL/GEL/POLYMER | MUD DENSITY: 1.26 g/cc | HOLE SIZE: 12.25" (Avg. 13.46")

TEST No	DEPTH mRKB	TYPE	HYD PRESS BEFORE psi	TIME SET	FORMATION PRESS psi	TIME RETRAC	HYD PRESS AFTER psi	RESULT	TEMP	REMARKS
1	2737	P	5008.63	10:36	—	10:38	5008.36	TIGHT	80.6	Dry Test.
2	2752	P	5034.26	11:02	—	11:05	5033.57	TIGHT	80.9	Dry Test.
3	2754	P	5036.56	11:27	—	11:28	5036.61	TIGHT	81.1	Dry Test.
4	3064	P	5592.68	11:57	—	12:02	5592.16	TIGHT	90.0	Dry Test. Reset probe.
5	3066.5	P	5595.1	12:21	—	12:23	5594.55	NO TEST	90.2	Seal failure. Washout.
6	3066.1	P	5593.26	12:32	—	12:34	5592.80	NO TEST	90.4	Seal failure.
7	3072.5	P	5603.33	12:56	—	13:02	5602.50	NO TEST	90.8	Seal failure. Reset probe twice.
8	3072.8	P	5602.84	13:12	—	13:16	5602.40	NO TEST	91.2	Seal failure. Reset probe.
9	3098.5	P	5647.05	13:47	—	13:54	5647.36	TIGHT	94.2	Dry Test.
10	3112.5	P	5672.18	14:18	—	14:21	5671.81	TIGHT	94.7	Dry Test.
11	3113.8	P	5672.66	14:35	—	14:38	5672.01	TIGHT	94.9	Dry Test.
12	3157	P	5747.95	15:45	—	15:50	5748.90	TIGHT	99.4	Seal failure-reset probe. Dry Test
13	3157.1	P	5748.12	16:00	—	16:04	5747.50	NO TEST	99.4	Seal failure. Reset probe.
14	3164.5	P	5761.92	16:17	—	16:19	5761:14	TIGHT	100.3	Dry Test.

NOTES:

REF. LOG: Run 2A DIT-SDT-GR-AMS | CONVERSION CONSTANTS: KPa = PSI * 6.89474 | PPG (EMW) = psi/(TVDepth * 0.1703)

MOBIL EXPLORATION NORWAY INC. — REPEAT FORMATION TESTING WORKSHEET

WELL: 35/11-6 | FIELD: Wildcat | LOCATION: Norway | RIG: Sovereign Explorer

DATE: 16/03/92 | LOGGING Co: Schlumberger | RUN No: 2A | GAUGE: HP

GEOLOGIST: Howes/Kelman | MUD TYPE: KCL/GEL/POLYMER | MUD DENSITY: 1.26 g/cc | HOLE SIZE: 12.25" (Avg. 13.46")

TEST No	DEPTH mRKB	TYPE	HYD PRESS BEFORE psi	TIME SET	FORMATION PRESS psi	TIME RETRAC	HYD PRESS AFTER psi	RESULT	TEMP	REMARKS
15	3171	P	5772.03	16:40	—	16:42	5771.84	TIGHT	100.9	Dry Test.
16	3174.5	P	5777.74	16.59	4786.97	17:14	5777.50	GOOD	101.5	Good perm. Drawdown 4500 psi.
17	3180	P	5786.52	17:36	4819.09	17:45	5785.69	GOOD	102.4	Fair-Good perm. Drawdown 300 psi.
18	3188.5	P	5801.15	18:10	4811.55	18:25	5800.70	GOOD	103.1	Good perm. Drawdown 3200 psi.
19	3174.5	S	5772.9	18:49	4785.33	19:31	5774.34	GOOD	106.1	Good perm. Drawdown 4350 psi.
20	3072	P	5593.05	20:47	—	20:58	5592.37	NO TEST	95.4	Not Stable/Plugging Reset probe.
21	3072.2	P	5591.94	21:09	--	21:16	5591.77	NO TEST	95.6	Seal failure. Reset probe twice.
22	3072.4	P	5591.79	21:21	5586.23	21:34	5591.37	GOOD	95.8	Reset three times. Good perm.
23	3072.6	P	5591.43	21:43	5586.00	21:50	5591.33	GOOD	96.0	Reset probe. Good perm.
24	3073	P	5592.60	22:21	5587.13	22:23	5592.60	GOOD	96.3	Reset probe twice. Good perm.

NOTES:

Pretests 22, 23 and 24 were first thought to be seal failures but have now been re-appraised as good tests.

REF. LOG: Run 2A DIT-SDT-GR-AMS | CONVERSION CONSTANTS: KPa = PSI * 6.89474 | PPG (EMW) = psi/(TVDepth * 0.1703)

MOBIL EXPLORATION NORWAY INC. — REPEAT FORMATION TESTING WORKSHEET

WELL: 35/11-6 | FIELD: Wildcat | LOCATION: Norway | RIG: Sovereign Explorer

DATE: 16/03/92 | LOGGING Co: Schlumberger | RUN No: 2A | GAUGE: HP

GEOLOGIST: Howes/Kelman | MUD TYPE: KCL/GEL/POLYMER | MUD DENSITY: 1.26 g/cc | HOLE SIZE: 12.25" (Avg. 13.48")

TEST No	DEPTH mRKB	TYPE	HYD PRESS BEFORE psi	TIME SET	FORMATION PRESS psi	TIME RETRAC	HYD PRESS AFTER psi	RESULT	TEMP	REMARKS
19	3174.5	S (#1)	5772.9	18:49	4785.33	19:55	5774.34	GOOD	106.1	Good perm. Drawdown 4350 psi.

18:53 Open Lower Chamber to fill 2 3/4 gallon sample.
Max pressure 4785.2 psi.

19:33 Open Upper Chamber to fill 1 gallon sample.
Max pressure 4780.35 psi.

SAMPLE RECOVERED FROM LOWER CHAMBER ON RIG FLOOR

PRESSURE IN CHAMBER AT SURFACE - 100 psi

SAMPLE CONTAINED - Trace of GAS.
- Trace of LIGHT OIL
- 9380 cc of MUD FILTRATE/WATER CHLORIDES - 31000 mg/l
DENSITY - 1.03 g/cc

NO GAS ANALYSIS IN CHROMATOGRAPH PERFORMED BECAUSE OF INSUFFICIENT GAS RECOVERED

NOTES:

REF. LOG: Run 2A DIT-SDT-GR-AMS | CONVERSION CONSTANTS: KPa = PSI * 6.89474 | PPG (EMW) = psi/(TVDepth * 0.1703)

MOBIL EXPLORATION NORWAY INC. — REPEAT FORMATION TESTING WORKSHEET

WELL: 35/11-6 | FIELD: Wildcat | LOCATION: Norway | RIG: Sovereign Explorer

DATE: 17/03/92 | LOGGING Co: Schlumberger | RUN No: 2B | GAUGE: HP

GEOLOGIST: Howes/Kelman | MUD TYPE: KCL/GEL/POLYMER | MUD DENSITY: 1.26 | HOLE SIZE: 12.25" (Avg. 13.48")

TEST No	DEPTH mRKB	TYPE	HYD PRESS BEFORE psi	TIME SET	FORMATION PRESS psi	TIME RETRAC	HYD PRESS AFTER psi	RESULT	TEMP	REMARKS
25	3072.3	P	5593.42	13:11	—/5556+	13:21	5593.40	NO TEST	98.5	Not stabilised/Low perm.
26	3072.4	P	5593.81	13:31	5586.9/5586.2	13:36	5591.60	GOOD	98.7	Good perm - Reset probe.
27	3072.5	P	5591.91	13:47	5588.1/5587.7	13:54	5590.92	GOOD	99.0	Good perm - Reset probe.
28	3072.6	P	5590.70	14:07	5586.8/5586.3	14:12	5589.80	GOOD	99.3	Good perm. Reset probe.
29	3072.7	P/S	5588.42	14:35	5586.30	15:22	5581.90	GOOD	100.1	V. good perm. Drawdown 5280 psi
30	3072.8	P	5582.73	15:20	5437.36	15:23	5582.09	POOR	100.1	Appears depleted. Abandon test.
31	3072.9	P	5582.13	15:48	5441.17	15:50	5581.75	POOR	100.1	Appears depleted. Abandon test.
32	3156.9	P	5720.24	16:30	866.10+	16:38	5720.78	TIGHT	107.2	Drawdown 812 psi. Low perm. Reset probe - no change.
33	3164.7	P	5735.26	17:04	5361.55+	17:15	5734.59	TIGHT	107.8	Low perm. Probably supercharged Pressure rising slowly. Drawdown 3500 psi
34	3175	P	5754.80	17:41	4792.48	17:41	5754.70	GOOD	108.5	Drawdown 530 psi. Low perm.
35	3176.9	P	5758.40	18:02	5760.4	18.10	5757.74	POOR	108.8	Supercharged? - Reset probe.
36	3180.5	P	5766.89	18:35	4811.02	18:50	5767.79	GOOD	110.1	Drawdown 4180 psi. Good perm.

NOTES: Decrease in mud hydrostatic readings in pretests 1 - 5 observed in both HP and Strain Gauges.

REF LOG: Run 2A DIT-SDT-GR-AMS | CONVERSION CONSTANTS: KPa = PSI * 6.89474 | PPG (EMW) = psi/(TVDepth * 0.1703)

MOBIL EXPLORATION NORWAY INC. — REPEAT FORMATION TESTING WORKSHEET

WELL: 35/11-6 | FIELD: Wildcat | LOCATION: Norway | RIG: Sovereign Explorer

DATE: 17/03/92 | LOGGING Co: Schlumberger | RUN No: 2B | GAUGE: HP

GEOLOGIST: Howes/Kelman | MUD TYPE: KCL/GEL/POLYMER | MUD DENSITY: 1.26 | HOLE SIZE: 12.25" (Avg. 13.48")

TEST No	DEPTH mRKB	TYPE	HYD PRESS BEFORE psi	TIME SET	FORMATION PRESS psi	TIME RETRAC	HYD PRESS AFTER psi	RESULT	TEMP	REMARKS
37	3187.8	P	5780.24	19:13	4826.50	19:22	5779.76	GOOD	110.5	Drawdown 240 psi. Low perm.
38	3192.5	P	5788.40	19:40	468+	19:44	5788.50	TIGHT	110.6	Drawdown 163 psi. Very low perm.

NOTES:

REF LOG: Run 2A DIT-SDT-GR-AMS | CONVERSION CONSTANTS: KPa = PSI * 6.89474 | PPG (EMW) = psi/(TVDepth * 0.1703)

MOBIL EXPLORATION NORWAY INC. — REPEAT FORMATION TESTING WORKSHEET

WELL: 35/11-6 | FIELD: Wildcat | LOCATION: Norway | RIG: Sovereign Explorer

DATE: 17/03/92 | LOGGING Co: Schlumberger | RUN No: 2B | GAUGE: HP

GEOLOGIST: Howes/Kelman | MUD TYPE: KCL/GEL/POLYMER | MUD DENSITY: 1.26 g/cc | HOLE SIZE: 12.25" (Avg. 13.48")

TEST No	DEPTH mRKB	TYPE	HYD PRESS BEFORE psi	TIME SET	FORMATION PRESS psi	TIME RETRAC	HYD PRESS AFTER psi	RESULT	TEMP	REMARKS
29	3072.7	S (#2)	5588.42	14:35	5586.30	15:34	5581.90	GOOD	100.1	Very Good Perm. Drawdown 5285 psi.

14:37 Open Lower Chamber 2 3/4 gallons. Max pressure 5460.10 psi.
14:55 Close Lower Chamber.
15:00 Open Upper Chamber 1 gallon. Max pressure 5425.36 psi.
15:32 Close Upper Chamber.

SAMPLE RECOVERED FROM LOWER CHAMBER ON RIG FLOOR

PRESSURE IN CHAMBER AT SURFACE - 1200 psi

SAMPLE CONTAINED - 11 cu ft. GAS
- 9000 cc HEAVY OIL (API 18-19) DENSITY - 0.94 g/cc
- Trace MUD FILTRATE/WATER CHLORIDES - 3000 mg/l

GAS ANALYSIS BY HALLIBURTON CHROMATOGRAPH

C1	196590 ppm	19.66%
C2	55031 ppm	5.50%
C3	61539 ppm	6.15%
iC4	6840 ppm	0.68%
nC4	18277 ppm	1.83%
nC5	2330 ppm	0.23%

NOTES: iC5 was present in sample, but Halliburton did not have iC5 calibration gas.

REF. LOG: Run 2A DIT-SDT-GR-AMS | CONVERSION CONSTANTS: KPa = PSI * 6.89474 | PPG (EMW) = psi/(TVDepth * 0.1703)

MOBIL EXPLORATION NORWAY INC. — REPEAT FORMATION TESTING WORKSHEET

WELL: 35/11-6 FIELD: WILDCAT LOCATION: NORTH SEA RIG: SOVEREIGN EXPLORER

DATE: 10TH APRIL 1992 LOGGING Co: SCHLUMBERGER RUN No: 3C GAUGE: HP

GEOLOGIST: TJH/JK MUD TYPE: GEL/KCL/POLYMER MUD DENSITY: 1.49 g/cc HOLE SIZE: 8.5"

TEST No	DEPTH mRKB	TYPE	HYD PRESS BEFORE psi	TIME SET	FORMATION PRESS psi	TIME RETRAC	HYD PRESS AFTER psi	RESULT	TEMP	REMARKS
1	3518.0	P	7454.30	01:44	-	01:45	7454.92	DRY	114	Tight.
2	3519.0	P	7434.51	01:52	-	01:55	7426.64	NO TEST	114	Seal Failure. Reset Probe 1 Time.
3	3519.2	P	7420.22	01:59	-	02:02	7412.24	DRY	114	Tight. Possibly Supercharged.
4	3520.0	P	7391.79	02:27	-	02:28	7389.85	NO TEST	114	Seal Failure.
5	3520.2	P	7388.77	02:33	-	02:39	7388.60	DRY	115	Tight.
6	3523.0	P	7399.48	02:49	7248.66	02:58	7395.00	GOOD	115	Good Perm. Drawdown 6600psi.
7	3535.5	P	7419.33	03:16	7361.60	03:33	7419.20	GOOD	116	Low Perm.
8	3534.5	P	7416.97	03:39	-	03:42	7418.10	DRY	116	Tight.
9	3535.0	P	7418.45	03:59	7348.10	04:10	7417.70	FAIR	117	Tight. HP Gauge Not Stable.
10	3565.3	P	7480.08	04:41	-	04:45	7477.20	NO TEST	117	Probe Plugged.
11	3565.5	P	7472.26	04:54	-	04:59	7477.70	DRY	117	Very Tight.
12	3568.2	P	7482.77	05:14	-	05:16	7482.56	DRY	118	Very Tight.
13	3591.6	P	7524.50	05:59	-	06:02	7523.06	DRY	119	Very Tight.
14	3591.4	P	7523.40	06:10	-	06:14	7527.36	DRY	119	Very Tight.

NOTES: RFT tool run with MAXIS 500 unit. MDT tool failed and was unrepairable.

REF LOG: Run 3C DIT-LSS-GR-AMS | CONVERSION CONSTANTS: KPa = PSI * 6.89474 | PPG (EMW) = psi/(TVDepth * 0.1703)

MOBIL EXPLORATION NORWAY INC. — REPEAT FORMATION TESTING WORKSHEET

WELL: 35/11-6 FIELD: WILDCAT LOCATION: NORTH SEA RIG: SOVEREIGN EXPLORER

DATE: 10TH APRIL 1992 LOGGING Co: SCHLUMBERGER RUN No: 3C GAUGE: HP

GEOLOGIST: TJH/JK MUD TYPE: GEL/KCL/POLYMER MUD DENSITY: 1.49 g/cc HOLE SIZE: 8.5"

TEST No	DEPTH mRKB	TYPE	HYD PRESS BEFORE psi	TIME SET	FORMATION PRESS psi	TIME RETRAC	HYD PRESS AFTER psi	RESULT	TEMP	REMARKS
15	3601.0	P	7543.00	06:36	-	06.40	7545.24	DRY	120	Tight.
16	3602.5	P	7549.03	06:56	7495.30	07:00	7547.20	GOOD	120	Fair Perm.
17	3609.0	P	7559.35	07:06	-	07.09	7557.38	DRY	118	Tight.
18	3613.5	P	7571.73	07:21	(7503.9)	07:54	7568.40	POOR	120	Low Perm. Tool reset-not stable.
19	3618.0	P	7574.60	08:30	-	08:32	7575.30	DRY	121	Tight.
20	3618.2	P	7578.30	08.45	7328.83	08:52	7576.80	GOOD	121	HP Peaked at 7331.28. Retest.
21	3618.2	P	7576.03	08:57	7332.11	09:08	7576.18	GOOD	121	Low Perm.
22	3623.2	P	7584.34	09:34	7321.36	09:39	7584.73	GOOD	121	Good Perm.
23	3629.5	P	7596.48	10:01	7330.93	10:05	7596.90	GOOD	122	Mod-Good Perm.
24	3633.5	P	7604.37	10:27	7400.00	10:46	7604.90	GOOD	122	Poor Perm. Possibly Supercharged.
25	3678.7	P	7700.09	11:36	-	11:38	7702.41	DRY	123	Tight.
26	3678.5	P	7694.53	11:50	-	11:55	7694.27	NO TEST	123	Seal Failure.
27	3678.5	P	7698.14	12:02	7409.60	12:12	7692.0	GOOD	123	Fair Perm. Drawdown to 2500 psi.
28	3683.0	P	7705.65	12:32	7403.30	12:42	7703.75	GOOD	124	Good Perm. Drawdown to 6500 psi.

NOTES: RFT tool run with MAXIS 500 unit. MDT tool failed and was unrepairable.

REF LOG: Run 3C DIT-LSS-GR-AMS | CONVERSION CONSTANTS: KPa = PSI * 6.89474 | PPG (EMW) = psi/(TVDepth * 0.1703)

MOBIL EXPLORATION NORWAY INC. — REPEAT FORMATION TESTING WORKSHEET

WELL: 35/11-6 FIELD: WILDCAT LOCATION: NORTH SEA RIG: SOVEREIGN EXPLORER

DATE: 10TH APRIL 1992 LOGGING Co: SCHLUMBERGER RUN No: 3C GAUGE: HP

GEOLOGIST: TJH/JK MUD TYPE: GEL/KCL/POLYMER MUD DENSITY: 1.49 g/cc HOLE SIZE: 8.5"

TEST No	DEPTH mRKB	TYPE	HYD PRESS BEFORE psi	TIME SET	FORMATION PRESS psi	TIME RETRAC	HYD PRESS AFTER psi	RESULT	TEMP	REMARKS
29	3686.5	P	7711.12	13:05	7405.54	13:16	7710.04	GOOD	124	Fair Perm. Drawdown to 5500 psi.
30	3697.0	P	7726.52	13:46	7418.80	13.57	7728.00	GOOD	125	Fair Perm. Drawdown to 6000 psi.
31	3701.4	P	7735.16	14:14	7425.14	14:20	7734.21	GOOD	125.3	Good Perm. Drawdown to 7000 psi
32	3706.0	P	7749.76	14:43	-	14:45	7747.00	DRY	125.4	Dry Test.
33	3704.7	P	7741.90	15:06	7429.32	15:17	7739.24	GOOD	126	Fair Perm. Drawdown to 6500 psi.
34	3712.5	P	7760.93	15:41	7443.06	15:45	7759.65	GOOD	126.3	Good Perm. Drawdown to 7300 psi.
35	3718.0	P	7772.68	16:02	-	16.04	7769.00	DRY	126.6	Dry Test.
36	3715.7	P	7769.14	16:16	7531.90	16:33	7767.18	GOOD	127.2	Fair Perm. Drawdown to 7000 psi.
37	3733.0	P	7798.40	17:04	7504.05+	17:12	7799.93	DRY	127.8	Poor Perm. Fmt Press not Stable.
38	3733.2	P	7802.78	17:25	7493.50+	17:33	7800.90	NO TEST	128	Seal Failure.
39	3733.5	P	7805.18	17:39	7511.07	17:53	7804.66	POOR	128.3	Poor Perm. Drawdown to 500 psi.
40	3736.0	P	7806.90	18.14	7778.66+	18:23	7807.38	DRY	129.5	Low Perm. Fmt Press not stable.
41	3773.5	P	7876.36	19:08	-	19:10	-	DRY	131.8	Dry Test.
42	3774.1	P	7887.63	19:18	-	19.20	-	DRY	131.8	Dry Test.

NOTES: RFT tool run with MAXIS 500 unit. MDT tool failed and was unrepairable.

REF LOG: Run 3C DIT-LSS-GR-AMS | CONVERSION CONSTANTS: KPa = PSI * 6.89474 | PPG (EMW) = psi/(TVDepth * 0.1703)

MOBIL EXPLORATION NORWAY INC. REPEAT FORMATION TESTING WORKSHEET

WELL: 35/11-6 FIELD: WILDCAT LOCATION: NORTH SEA RIG: SOVEREIGN EXPLORER

DATE: 10/11TH APRIL 1992 LOGGING Co: SCHLUMBERGER RUN No: 3C GAUGE: HP

GEOLOGIST: TJH/RJH/JRK MUD TYPE: GEL/KCL/POLYMER MUD DENSITY: 1.49 g/cc HOLE SIZE: 8.5"

TEST No	DEPTH mRKB	TYPE	HYD PRESS BEFORE psi	TIME SET	FORMATION PRESS psi	TIME RETRAC	HYD PRESS AFTER psi	RESULT	TEMP	REMARKS
43	3774.5	P	7889.64	19:28	-	19:30	7891.75	DRY	132	Dry Test.
44	3802.0	P	7936.36	20:05	-	20.07	-	DRY	134	Dry Test. Hydrostatic not stable.
45	3803.0	P	7944.41	20:25	7680.29	20:38	7943.42	POOR	134	Low Perm. Drawdown to 100 psi.
46	3804.0	P	7946.74	20:54	7800 +\-	21:05	7945.05	POOR	134	Low Perm. Supercharged.
47	3810.5	P	7956.97	21:32	-	21.34	7954.47	DRY	135	Dry Test.
48	3811.0	P	7961.34	21:52	-	22:01	7967.93	DRY	135	Seal failure. Dry Test.
49	3826.0	P	7986.36	22:26	-	22:30	7986.19	NO TEST	135	Seal Failure.
50	3825.7	P	7988.69	22:46	7628.10	22:49	7987.45	GOOD	135	Good Perm. Drawdown to 7400 psi.
51	3833.0	P	8002.96	23:12	7622.44	22:22	8001.48	GOOD	136.6	Fair Perm. Drawdown to 4000 psi.
52	3830.0	P	7997.4	23:29	1230+	23:32	7997.72	POOR	137	Very Low Perm.
53	3855.0	P	8045.98	00:14	-	00:17	8044.45	DRY	137	Dry Test.
54	3603.0	P	7552.97	01:19	7489.66	01:37	7549.32	GOOD	126.2	Very Low Perm. Drawdown to 0 psi.
55	3602.8	P	7548.75	01:57	-	02:00	7546.41	DRY	126.1	Dry Test.
56	3602.6	P	7545.73	02:15	-	02:28	7544.24	DRY	126.1	Dry Test.

NOTES: RFT tool run with MAXIS 500 unit. MDT tool failed and was unrepairable.

REF LOG: Run 3C DIT-LSS-GR-AMS | CONVERSION CONSTANTS: KPa = PSI * 6.89474 | PPG (EMW) = psi/(TVDepth * 0.1703)

MOBIL EXPLORATION NORWAY INC. — REPEAT FORMATION TESTING WORKSHEET

WELL: 35/11-6 FIELD: WILDCAT LOCATION: NORTH SEA RIG: SOVEREIGN EXPLORER

DATE: 11TH APRIL 1992 LOGGING Co: SCHLUMBERGER RUN No: 3C GAUGE: HP

GEOLOGIST: TJH/RJH/JRK MUD TYPE: GEL/KCL/POLYMER MUD DENSITY: 1.49 g/cc HOLE SIZE: 8.5"

TEST No	DEPTH mRKB	TYPE	HYD PRESS BEFORE psi	TIME SET	FORMATION PRESS psi	TIME RETRAC	HYD PRESS AFTER psi	RESULT	TEMP	REMARKS
57	3603.1	P	7547.64	02:45	-	02:48	7546.00	DRY	126	Dry Test.
58	3581.3	P	7504.60	03:15	-	03:17	7502.51	DRY	125.2	Dry Test.
59	3581.0	P	7501.00	03:30	-	03.34	7501.00	DRY	124.5	Dry Test.
60	3580.8	P	7500.54	03:44	7480 +	04:24	7499.11	POOR	124.2	Very Low Perm. Supercharged.
61	3535.8	P	7414.22	04:47	-	04:50	7411.33	DRY	122	Dry Test.
62	3535.5	P	7410.96	05:02	-	05:05	7410.73	DRY	122.5	Dry Test.
63	3535.3	P	7410.18	05:15	-	05:19	7410.42	DRY	122.5	Dry Test.
64	3535.0	P	7408.59	05:32	-	05:34	7408.52	DRY	121.8	Dry Test.
65	3534.8	P	7407.69	05:46	-	05:48	7407.73	DRY	121.8	Dry Test.
66	3523.3	P	7385.28	06:17	-	06:18	7383.24	DRY	121.8	Dry Test.
67	3523.2	P	7384.07	06:26	-	06:28	7383.63	DRY	121.6	Dry Test.
68	3523.1	P	7384.55	06:35	-	06:36	7382.38	DRY	121.7	Dry Test.
69	3523.0	P	7385.42	06:45	-	06:46	7382.68	DRY	121.7	Dry Test.
70	3522.9	P	7381.32	07:23	7293.8 +	07:34	7382.24	POOR	120.7	Low Perm. Probably Supercharged.

NOTES: RFT tool run with MAXIS 500 unit. MDT tool failed and was unrepairable.

REF LOG: Run 3C DIT-LSS-GR-AMS | CONVERSION CONSTANTS: KPa = PSI * 6.89474 | PPG (EMW) = psi/(TVDepth * 0.1703)

MOBIL EXPLORATION NORWAY INC. — REPEAT FORMATION TESTING WORKSHEET

WELL: 35/11-6 FIELD: WILDCAT LOCATION: NORTH SEA RIG: SOVEREIGN EXPLORER

DATE: 11TH APRIL 1992 LOGGING Co: SCHLUMBERGER RUN No: 3C GAUGE: HP

GEOLOGIST: RJH/JK MUD TYPE: GEL/KCL/POLYMER MUD DENSITY: 1.49 g/cc HOLE SIZE: 8.5"

TEST No	DEPTH mRKB	TYPE	HYD PRESS BEFORE psi	TIME SET	FORMATION PRESS psi	TIME RETRAC	HYD PRESS AFTER psi	RESULT	TEMP	REMARKS
71	3522.8	P	7383.49	07:40	-	07:43	7381.13	DRY	121.3	Dry Test.
72	3522.7	P	7383.9	07:48	-	07:50	-	DRY	121.5	Dry Test.
73	3522.5	P	7383.9	07:51	7265.17	08:00	7381.54	POOR	121.8	Poor Perm.
74	3522.6	P	7383.39	08:08	6939.3 +	08:10	7381.84	POOR	121.9	Poor Perm. Abandon Test.
75	3522.4	P/S	7380.69	08:24	7261.39	09:30	7376.85	GOOD	123.5	Reset Tool. Good Perm.
76	3520.0	P	7375.91	09:46	-	09:47	7374.24	DRY	123	Dry Test.
77	3519.5	P	7376.73	09:55	-	09:56	7375.72	DRY	122.8	Dry Test.
78	3518.5	P	7373.89	10.03	-	10.05	7373.08	DRY	123	Dry Test.

NOTES: RFT tool run with MAXIS 500 unit. MDT tool failed and was unrepairable.

REFERENCE LOG: Run 3C DIT-LSS-AMS | CONVERSION CONSTANTS: KPa = PSI * 6.89474 | PPG (EMW) = psi/(TVDepth * 0.1703)

MOBIL EXPLORATION NORWAY INC. — REPEAT FORMATION TESTING WORKSHEET

WELL: 35/11-6 FIELD: WILDCAT LOCATION: NORTH SEA RIG: SOVEREIGN EXPLORER

DATE: 11TH APRIL 1992 LOGGING Co: SCHLUMBERGER RUN No: 3C GAUGE: HP

GEOLOGIST: RJH/JK MUD TYPE: GEL/KCL/POLYMER MUD DENSITY: 1.49 g/cc HOLE SIZE: 8.5"

TEST No	DEPTH mRKB	TYPE	HYD PRESS BEFORE psi	TIME SET	FORMATION PRESS psi	TIME RETRAC	HYD PRESS AFTER psi	RESULT	TEMP	REMARKS
75	3522.4	S (#3)	7380.69	08:24	7261.31	09:30	7376.85	GOOD	123.5	Good Perm. Drawdown 6750 psi Formation Pressure allowed to stabilise for 20mins after taking Segregated sample - 7247.22 psi

08:32 Open 2 3/4 Gallon Chamber.
08:54 Close 2 3/4 Gallon Chamber. Max build up pressure 7236.57 psi.
08:55 Open 1 Gallon Chamber.
09:08 Close 1 Gallon Chamber. Max build up pressure 7234.9 psi
Allow formation pressure to stabilise for 20 mins, Max pressure - 7247.22 psi.

SAMPLE RECOVERED FROM LOWER CHAMBER (2-3/4 GALLON) ON RIG FLOOR

PRESSURE IN CHAMBER AT SURFACE - No pressure detected.

SAMPLE CONTAINED - Only very slight traces of GAS present.
- Trace of OIL.
- 9500 cc of MUD FILRATE/WATER.

ANALYSIS OF MUD FILTRATE/WATER - DENSITY - 1.036 g/cc
- CHLORIDES - 26500 to 27000 mg/l
- Retort indicates only very slight traces of OIL.

NB: INSUFFICIENT GAS PRESENT TO ANALYSE

NOTES: RFT tool run with MAXIS 500 unit. MDT tool failed and was unrepairable.

REFERENCE LOG: DIT-SDT-GR-AMS | CONVERSION CONSTANTS: KPa = PSI * 6.89474 | PPG (EMW) = psi/(TVDepth * 0.1703)

	MENI WELL 35/11-6							
	MUD PROPERTIES RECAP							
REPORT#	1	2	3	4	5	6	7	8
DATE	28 Jan 92	29 Jan 92	30 Jan 92	31 Jan 92	01 Feb 92	02 Feb 92	03 Feb 92	04 Feb 92
TIME		2300	2400	2200	2200	2200	2200	2200
DEPTH		Pits	450	462	462	926	700	985
WT. s.g.		1.07	1.07	1.07	1.07	1.07	1.07	1.07
TEMP °C								
PV								
YP								
GELS								
PH		10	10	10	10	10	10	10
API FL								
HTHP								
Pm								
Pf / Mf								
Cl ppm								
Ca ppm								
% Sand								
% SOL								
%LGSol								
MBT ppb								
K+ppm								
600								
300								
200								
100								
6								
3								

	MENI WELL 35/11-6							
	MUD PROPERTIES RECAP							
REPORT#	9	10	11	12	13	14	15	16
DATE	05 Feb 92	06 Feb 92	07 Feb 92	08 Feb 92	09 Feb 92	10 Feb 92	11 Feb 92	12 Feb 92
TIME	2200	2200	2400	24:00	2400	2400	23:00	22:30
DEPTH	985	985	985	1271m	00:00	00:00	1780m	1881m
WT. s.g.	1.2	1.2	1.2	1.24 s.g.	1.28	1.28	1.28 s.g.	1.28 s.g.
TEMP °C		50		29°C	28	50	50°C	30°C
PV		29	29	17	18	19	22	26
YP		31	27	22	16	17	28	24
GELS		1527	1527	13/60	634	11535	15/72/92	25 / 93
PH	10	8.7	8.7	9.2	8	8	8.4	8.6
API FL		6.4	6.4	11.0	5	7.4	6.4	9.0
HTHP								
Pm				0.10	0	0	0.00	0.00
Pf / Mf				.1/.4	0/.4	0/.04	0/0.4	0/0.4
Cl ppm				35000	36500	33000	3500	39000
Ca ppm				620	680	680	760	800
% Sand				0.60 %	0.50 %	0.5	0.50 %	0.50 %
% SOL				11.00 %	11.5	12	12.00 %	13.50 %
%LGSol				5.75 %	4.29	5.4	5.36 %	7.90 %
MBT ppb				54	45	43	43.0	95.0
K+ppm			70	64	65	50	70.0	60.0
600		89	85	56	52	55	72	76
300		60	56	39	34	36	50	50
200		48	45	32	27	29	41	40
100		34	32	24	22	20	29	30
6		18	15	15	9	10	19	25
3		18	15	14	8	9	19	24

	MENI WELL 35/11-6							
	MUD PROPERTIES RECAP							
REPORT#	17	18	19	20	21	22	23	24
DATE	13 Feb 92	14 Feb 92	15 Feb 92	16 Feb 92	17 Feb 92	18 Feb 92	19 Feb 92	20 Feb 92
TIME	24:00	10:00	2100	2200	600	2200		2100
DEPTH	1993m	1996m	1996	1996	1996	1996		00:00
WT. s.g.	1.28 s.g.	1.28 s.g.	1.28	1.28	1.28	1.28		1.19
TEMP °C	32°C	32°C	31	31	30	30		24
PV	19	17	29	29	26	26		45
YP	26	26	8	12	9	9		120
GELS	18 / 46	13 / 48	849	1348	938	938		2178
PH	9.2	9.2	9.7	9	9.2	9.2		10.6
API FL	8.2	7.6	7.5	7.4	7.7	7.7		3.4
HTHP								
Pm	0.10	0.50	TR	0.5	0.6	0.6		
Pf / Mf	.03/.6	Tr/0.7	.1/.35	.1/.4	0.1/0.4	0.1/0.4		
Cl ppm	4000	40000	41000	41000	41000	41000		55000
Ca ppm	450	400	410	400	400	400		
% Sand	0.50 %	0.50 %	0.5	0.5	0.5	0.5		0
% SOL	12.50 %	14.50 %	15	14.6	14.5	14.5		10
%LGSol	6.50 %	6.00 %	5.99	5.8	5.8	5.8		1.95
MBT ppb	71.0	79.0	71	71	71	71		71
K+ppm	60.0	60.0	60	60	58	58		60
600	64	60	66	70	61	61		210
300	45	43	37	41	35	35		165
200	37	35	29	30	27	27		140
100	29	29	19	20	18	18		102
6	18	17	8	10	8	8		27
3	18	17	7	9	7	7		20

	MENI WELL 35/11-6							
	MUD PROPERTIES RECAP							
REPORT#	25	26	27	28	29	30	31	32
DATE	21 Feb 92	22 Feb 92	23 Feb 92	24 Feb 92	25 Feb 92	26 Feb 92	27 Feb 92	28 Feb 92
TIME	2300	2300	24:00	23:00	22:30	21:00	20:00	20:00
DEPTH	2078	00:00	2117m	2135m	2165m	2344m	2542m	2770m
WT. s.g.	1.19	1.19	1.19 s.g.	1.19 s.g.	1.19 s.g.	1.20 s.g.	1.23 s.g.	1.20 s.g.
TEMP °C	28	21	22°C	22°C	30°C	25°C	29°C	25°C
PV	23	23	20	19	21	22	23	20
YP	25	25	22	22	19	25	31	25
GELS	746	636	06 / 40	05 / 30	06 / 38	9/044	11/054	7/043
PH	10.6	9.8	10.2	10.2	9.4	9.1	8.3	8.9
API FL	5.8	5.4	4.6	4.7	4.8	4.5	5.3	4.9
HTHP								15.5
Pm	0.8	0.2	0.20	0.20	0.20	0.20	0.10	0.20
Pf / Mf	.02/1.2	0.2/0.8	0.1/0.4	0.1/0.4	0.1/0.5	.1/.5	.1/1.3	.1/.9
Cl ppm	48000	34000	37000	36000	32000	31000	29000	24000
Ca ppm	480	320	800	980	600	730	230	200
% Sand	TR	tr	TR	TR	TR	trace	Trace	0.30 %
% SOL	10	11	11.00 %	10.00 %	10.00 %	11.00 %	12.00 %	10.50 %
%LGSol	2.64	2.92	3.14 %	1.26 %	1.99 %	3.16 %	3.41 %	3.17 %
MBT ppb	55	56	57.0	55.0	55.0	53.0	59.0	56.0
K+ppm	53	40	40.0	40.0	35.0	35.0	30.0	30.0
600	71	71	62	60	61	69	77	65
300	48	48	42	41	40	47	54	45
200	38	40	34	32	32	38	45	37
100	27	29	25	21	22	28	33	27
6	10	12	10	9	9	11	15	11
3	9	11	9	8	8	10	14	11

	MENI WELL 35/11-6							
	MUD PROPERTIES RECAP							
REPORT#	33	34	35	36	37	38	39	40
DATE	29 Feb 92	01 Mar 92	02 Mar 92	03 Mar 92	04 Mar 92	05 Mar 92	06 Mar 92	07 Mar 92
TIME	22:00	22:00	22:00	22:00	22:00	22:00	24:00	21:00
DEPTH	2770m	2770m	2770m	3005m	3072m	3080m	3129m	3162m
WT. s.g.	1.20 s.g.	1.20 s.g.	1.20 s.g.	1.22 s.g.	1.24 s.g.	1.24 s.g.	1.24 s.g.	1.24 s.g.
TEMP °C	23°C	22°C	25°C	37°C	30°C	27°C	36°C	
PV	20	20	20	16	14	13	17	16
YP	23	23	25	35	24	23	28	27
GELS	7/043	6/042	8/043	12/045	14/54/66	11/49/50	11/038	12/044
PH	8.9	8.9	8.9	8.8	9.7	9.5	9.7	9.5
API FL	4.9	4.9	4.9	5.8	7.6	6.9	7.8	7.6
HTHP	15.0	15.0	15.5		18.6	19.2		
Pm	0.20	0.20	0.20	0.10	0.10	0.20	0.20	0.20
Pf / Mf	.1/.9	.1/.9	.1/.9	.1/.7	.1/.8	.1/.8	.1/.9	.1/.7
Cl ppm	24000	24000	24000	24000	23000	23000	25000	25000
Ca ppm	220	200	200	160	140	120	120	100
% Sand	0.30 %	0.30 %	0.30 %	0.50 %	0.50 %	0.40 %	0.60 %	0.60 %
% SOL	10.50 %	10.50 %	10.50 %	11.50 %	11.50 %	12.00 %	12.50 %	12.50 %
%LGSol	3.17 %	3.17 %	3.04 %	3.75 %	2.58 %	2.72 %	3.57 %	3.60 %
MBT ppb	56.0	56.0	56.0	52.0	55	48	45	50
K+ppm	30.0	30.0	30.0	29.0	28	27	32	30
600	63	63	65	67	52	49	62	59
300	43	43	45	51	38	36	45	43
200	35	35	36	42	32	31	30	36
100	25	25	27	31	26	24	20	29
6	10	10	11	16	16	15	14	14
3	9	9	10	15	15	14	13	13

	MENI WELL 35/11-6							
	MUD PROPERTIES RECAP							
REPORT#	41	42	43	44	45	46	47	48
DATE	08 Mar 92	09 Mar 92	10 Mar 92	11 Mar 92	12 Mar 92	13 Mar 92	14 Mar 92	15 Mar 92
TIME	24:00	23:30	24:00	23:30	21:00	22:00	22:00	22:00
DEPTH	3180m	3194m	3206m	3304m	3304m	3304m	3304m	3304m
WT. s.g.	1.24 s.g.	1.26 s.g.	1.26 s.g.	1.26 s.g.	1.26 s.g.	1.26 s.g.	1.26 s.g.	1.26 s.g.
TEMP °C	30°C	19°C	30°C	33°C				21°C
PV	11	15	14	19	19	17	17	18
YP	22	23	25	22	22	23	22	23
GELS	7/040	6/035	7/036	8/046	7/035	6/033	7/035	7/033
PH	8.9	8.8	8.7	8.7	8.6	8.5	8.6	8.6
API FL	5.8	5.4	5.7	5.6	5.4	5.5	5.3	5.3
HTHP								
Pm	0.20	0.20	0.20	0.20	0.10	0.10	0.10	0.10
Pf / Mf	.1/.8	.1/.7	.1/.7	.1/.7	.05/.7	.05/.7	.1/.7	.05/.6
Cl ppm	27000	30000	30000	30000	30000	30000	32000	33000
Ca ppm	280	160	160	280	260	260	270	260
% Sand	0.70 %	0.80 %	0.70 %	0.70 %	0.70 %	0.70 %	0.50 %	0.50 %
% SOL	12.50 %	13.00 %	13.00 %	13.00 %	13.00 %	13.00 %	13.00 %	13.00 %
%LGSol	3.80 %	3.50 %	3.30 %	3.30 %	3.30 %	3.30 %	3.30 %	3.30 %
MBT ppb	48	45	45	45	45	45	45	45
K+ppm	30	30	30	30	30	30	30	30
600	44	53	53	60	60	57	56	59
300	33	38	39	41	41	40	39	41
200	28	32	33	33	33	32	32	33
100	20	21	24	24	22	21	21	22
6	12	11	12	10	10	9	9	9
3	11	10	11	10	9	8	8	8

	MENI WELL 35/11-6							
	MUD PROPERTIES RECAP							
REPORT#	49	50	51	52	53	54	55	56
DATE	16 Mar 92	17 Mar 92	18 Mar 92	19 Mar 92	20 Mar 92	21 Mar 92	22 Mar 92	23 Mar 92
TIME	22:00	22:00	22:00	22:00	22:00	22:00	22:00	20:00
DEPTH	3304m	3304m	3304m	3296m	3296m	3315m	3475m	3500m
WT. s.g.	1.26 s.g.	1.26 s.g.	1.26 s.g.	1.26 s.g.	1.26 s.g.	1.26 s.g.	1.52 s.g.	1.52 s.g.
TEMP °C			21°C	30°C	28°C	30°C	32°C	35°C
PV	18	18	19	19	20	21	19	19
YP	23	23	24	20	19	16	17	17
GELS	7/035	7/035	07 / 37	07 / 32	08 / 31	07 / 34	12 / 40	11 / 38
PH	8.5	8.5	8.5	9.5	9.2	8.4	8.4	8.8
API FL	5.4	5.4	5.2	7.6	7.8	6.4	6.2	6.3
HTHP								
Pm	0.10	0.10	0.10	0.40	0.40	0.30	0.10	0.10
Pf / Mf	.05/.6	.05/.6	.05/.6	0.1/2.6	.1/2.4	0.1/0.8	0.1/0.6	0.1/0.6
Cl ppm	33000	33000	32000	32000	32000	32000	30000	30000
Ca ppm	270	270	270	300	300	200	420	400
% Sand	0.50 %	0.50 %	0.25 %	0.70 %	0.70 %	0.25 %		0.25 %
% SOL	13.00 %	13.00 %	13.00 %	13.00 %	13.00 %	13.00 %	22.00 %	22.00 %
%LGSol	303.00 %	3.30 %	3.20 %	3.30 %	3.30 %	3.30 %	5.60 %	5.50 %
MBT ppb	45	45	45	45	45	45	44	42
K+ppm	30	30	30	27	26	27	31	31
600	59	59	62	58	59	58	55	55
300	41	41	43	39	39	37	36	36
200	33	33	34	31	30	29	28	30
100	22	22	23	20	19	20	20	22
6	9	9	9	7	8	9	12	11
3	8	8	8	6	7	8	11	10

	MENI WELL 35/11-6							
	MUD PROPERTIES RECAP							
REPORT#	57	58	59	60	61	62	63	64
DATE	24 Mar 92	25 Mar 92	26 Mar 92	27 Mar 92	28 Mar 92	29 Mar 92	30 Mar 92	31 Mar 92
TIME	24:00	24:00	22:00	22:00	24:00	23:00	23:00	22:00
DEPTH	3524m	3548m	3558m	3581m	3601m	3625m	3642m	3671m
WT. s.g.	1.52 s.g.	1.52 s.g.	1.52 s.g.	1.51 s.g.	1.51 s.g.	1.51 s.g.	1.51 s.g.	1.51 s.g.
TEMP °C	34°C	32°C	33°C	32°C	34°C	33°C	34°C	34°C
PV	19	18	18	23	25	27	27	27
YP	16	17	16	19	20	19	20	20
GELS	12 / 41	10 / 41	06 / 34	06 / 25	05 / 24	04 / 22	03 / 21	04 / 21
PH	8.6	8.5	9.1	9.9	9.6	9.8	9.4	9.2
API FL	6.1	5.7	5.0	3.8	4.1	3.8	3.7	3.9
HTHP	16.0	14.8	14.8	13.7	12.2	12.0	12.4	12.3
Pm	0.10	0.10	0.20	0.20	0.10	0.10	0.10	0.10
Pf / Mf	0.1/0.6	0.1/0.6	0.1/0.7	0.1/0.7	0.1/0.7	0.1/0.6	0.1/0.7	0.1/0.7
Cl ppm	30000	31000	32000	34000	33000	33000	33000	32000
Ca ppm	200	240	400	810	880	880	810	710
% Sand	0.25 %	0.25 %	0.25 %	0.25 %	0.25 %	0.25 %	0.25 %	0.25 %
% SOL	21.50 %	21.00 %	21.00 %	21.00 %	20.50 %	20.50 %	20.50 %	21.00 %
%LGSol	4.40 %	3.50 %	3.10 %	3.30 %	2.40 %	2.40 %	2.40 %	3.50 %
MBT ppb	41	40	34	38	38	39	39	38
K+ppm	31	32	32	32	32	32	32	32
600	54	53	52	65	70	73	74	74
300	35	35	34	42	45	46	47	47
200	29	28	24	31	34	35	36	36
100	22	21	18	18	21	23	23	23
6	12	11	9	7	8	9	10	9
3	11	10	8	6	7	8	9	8

	MENI WELL 35/11-6							
	MUD PROPERTIES RECAP							
REPORT#	65	66	67	68	69	70	71	72
DATE	01 Apr 92	02 Apr 92	03 Apr 92	04 Apr 92	05 Apr 92	06 Apr 92	07 Apr 92	08 Apr 92
TIME	22:00	02:00	24:00	23:00	23:30	24:00	24:00	24:00
DEPTH	3701m	3705m	3760m	3755m	3800m	3877m	3939m	3990m
WT. s.g.	1.51 s.g.	1.51 s.g.	1.51 s.g.	1.51 s.g.	1.50 s.g.	1.50 s.g.	1.49 s.g.	1.49 s.g.
TEMP °C	34°C	25°C	34°C	31°C		34°C	34°C	
PV	27	27	27	25	24	24	24	30
YP	20	20	18	19	18	20	24	26
GELS	05 / 27	05 / 29	05 / 26	04 / 24	04 / 25	04 / 28	05 / 30	5/029
PH	9.0	9.3	9.0	9.2	9.1	9.1	9.1	10.2
API FL	3.8	3.8	4.4	4.7	5.2	5.6	4.0	3.0
HTHP	12.5	12.5	14.4	14.6	14.8	15.6	16.6	13.8
Pm	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.40
Pf / Mf	0.1/0.7	0.1/0.7	0.1/0.7	0.1/0.7	0.1/0.7	0.1/0.7	0.1/0.7	.2/.8
Cl ppm	31500	31500	31000	31500	32000	32000	32000	32000
Ca ppm	660	660	640	560	560	540	480	420
% Sand	0.25 %	0.25 %	0.25 %	0.25 %	0.25 %	0.25 %	0.25 %	0.25 %
% SOL	21.00 %	21.00 %	20.50 %	20.50 %	20.00 %	20.00 %	21.00 %	20.00 %
%LGSol	3.50 %	3.50 %	2.56 %	2.72 %	2.48 %	2.48 %	4.60 %	2.74 %
MBT ppb	38	38	35	35	33	32	32	30
K+ppm	32	32	32	32	31	32	30	32
600	74	74	72	69	66	68	72	86
300	47	47	45	44	42	44	48	56
200	36	36	36	34	34	35	38	43
100	23	23	24	23	23	24	26	27
6	9	9	9	8	9	9	9	9
3	8	8	8	7	8	8	8	8

	MENI WELL 35/11-6							
	MUD PROPERTIES RECAP							
REPORT#	73	74	75	76	77	78	79	80
DATE	09 Apr 92	10 Apr 92	11 Apr 92	12 Apr 92	13 Apr 92	14 Apr 92	15 Apr 92	16 Apr 92
TIME	24:00	24:00	24:00	24:00	24:00	24:00	24:00	10:00
DEPTH	3990m	3990m	3990m	3990m	3200m	3200m	3184m	560m
WT. s.g.	1.49 s.g.	1.49 s.g.	1.49 s.g.	1.49 s.g.	1.49 s.g.	1.49 s.g.	1.46 s.g.	1.46 s.g.
TEMP °C							20°C	20°C
PV	30	33	33	36	38	38	39	39
YP	26	29	29	29	30	30	28	28
GELS	4/022	4/022	4/022	5/022	6/030	6/030	6/030	6/030
PH	10.2	10.1	10.1	10.5	11.2	11.6	11.5	11.4
API FL	3.0	3.2	3.2	3.2	3.7	3.7	3.9	3.9
HTHP	13.2	13.2	13.2	12.4	14.2			
Pm	0.40	0.40	0.40	0.80	2.00	2.50	2.60	2.50
Pf / Mf	.2/.8	.2/.8	.2/.8	0.2/1	.3/1.5	.3/1.9	.3/1.6	.3/.6
Cl ppm	32000	32000	32000	30000	30000	30000	31000	32000
Ca ppm	420	440	440	480	520	520	520	500
% Sand	0.25 %	0.25 %	0.25 %	0.25 %	0.25 %	0.25 %	0.25 %	0.25 %
% SOL	20.00 %	20.00 %	20.00 %	20.00 %	20.00 %	20.00 %	20.00 %	20.00 %
%LGSol	2.50 %	2.45 %	2.45 %	2.50 %	2.60 %	2.60 %	2.60 %	2.60 %
MBT ppb	30	30	30	32	30	30	30	30
K+ppm	32	32	32	30	30	30	30	30
600	95	95	95	101	106	106	106	106
300	62	62	62	65	68	68	67	67
200	47	47	47	49	52	52	52	52
100	29	29	29	31	33	33	33	33
6	9	9	9	9	10	10	10	10
3	8	8	8	8	10	10	10	10

M-I Norge A.S.
Magcobar/IMCO
A Dresser/Halliburton Company
The Drilling Fluids Company

MOBIL EXP NORWAY INC

Sovereign Explorer

Total Well Materials Consumption

Well No : 35/11-6
Mud Type : SPUD-MUD
KCl/Gel/Polymer

Total length drilled : 3815 m

Formation Volume Drilled : 626.0m3

MATERIAL	UNIT SIZE	UNITS USED	UNIT COST	COST	NOK/ m3
BARITE	1000	850	624.20	530570.00	191.13
BENTONITE	1000	213	1892.00	402996.00	145.17
CAUSTIC	25	155	117.10	18150.50	6.54
SODA ASH	25	101	58.30	5888.30	2.12
LIME	20	64	48.38	3096.32	1.12
XC POLYMER	25	81	1732.36	140321.16	50.55
POLYSAL	25	509	156.70	79760.30	28.73
ANTISOL REG	25	227	722.86	164089.22	59.11
ANTISOL LV	25	195	722.86	140957.70	50.78
LAMPAC LV	25	30	662.80	19884.00	7.16
POLY PLUS	22.68	122	706.00	86132.00	31.03
BOREWELL FE	25	391	95.00	37145.00	13.38
KOH	25	1	170.70	170.70	0.06
SOD BICARB	25	71	77.20	5481.20	1.97
CITRIC ACID	25	15	259.50	3892.50	1.40
BACBAN 3	5	4	1407.00	5628.00	2.03
SI.DEFOAMER	200	12	4305.00	51660.00	18.61
RENAX 100	196	29	3345.00	97005.00	34.94
DESCO CF	11.34	70	192.50	13475.00	4.85
OILEX	214	2	3658.84	7317.68	2.64
AGIPAC LV	25	215	508.52	109331.80	39.38
KCL SX		700	44.30	31010.00	11.17
BRINE	m3	474	555.70	263401.80	94.89
DRILL+SEA W	m3	2260	0.00	0.00	0.00
TOTAL WELL MATERIAL COST :				2217364.18	NOK

Geochemical Report for Well NOCS 35/11-6

Authors: Kjell Arne Bakken
Sunil Bharati
Ian L. Ferriday

Geolab Nor A/S
Postboks 5740 Fossegrenda
7002 Trondheim
Norway

Date : 06.07.92

Chapter 1

INTRODUCTION

Well NOCS 35/11-6 was analysed on behalf of Mobil Exploration Norway by authorization of Dag Isaksen.

The well is located in the Norwegian sector of the North Sea and is situated north-west of the Troll gas field (61°11'45.82"N, 03°27'55.46"E). The water depth was 369.5 m and KB elevation was 26.5 m. All depths given are relative to KB unless otherwise specified. The location of the well is shown in Figure 1.

Samples (cuttings, side-wall cores, conventional cores and "oil") were supplied by Mobil and delivered to Geolab Nor's laboratory in Trondheim. A preliminary stratigraphy based on seismic and biostratigraphic data to date was provided by Mobil and is used in this report. Note that this stratigraphy may differ slightly from the final stratigraphy.

Both screening and follow-up analyses were performed. Samples for analyses were selected in agreement with Dag Isaksen on a continuous basis. The well was analyzed from 1000 m to 3956.70 m (range of samples supplied to Geolab Nor). Conventional core samples were preferred for analyses where available and side-wall cores were preferred to cuttings samples. One oil sample (3072.7 m) was also analyzed. The results are presented in the relevant stratigraphic sections of this report.

The report is divided into chapters according to the various analytical methods used. Within the chapters the results are mainly discussed in a (descending) stratigraphic context.

1.1 General Comments

The cuttings samples were supplied unwashed in cans. The samples were analysed for headspace and occluded gas, washed, described and picked before analyses commenced. The conventional core samples were supplied as core-chips which were used after removal of any superficial contamination. The side-wall cores were cleansed of drill mud before analyses.

The quality of the rock samples was good. No analytical problems were encountered.

1.2 Analytical Program

In accordance with the contract, sample availability and the screening analyses results, the following analytical program was executed for Well NOCS 35/11-6 in the section from 1000 m to 3989 m:

Analysis type	No of samples	Figures	Tables
Headspace and Occluded Gas	143	2a-c	1a-c
Lithology description	143	3	2
Rock-Eval pyrolysis	58	4a,5a,6	3
Quantitative GHM (S_1 and S_2), wellsite	188	4b-d,5b	4
		7a-e,8a-c	
Soxhlet Extraction of organic matter	14		
MPLC/HPLC separation	15		5a-e
Whole oil GC	1		
Saturated hydrocarbon GC	15	9a-f	6
Aromatic hydrocarbon GC	15	10a-g	7
Vitrinite reflectance	28	11	8

Visual kerogen microscopy	15	12	8,9
Isotope composition C_{15}+ fractions	11	13,14	10a-b
GC - MS of saturated and aromatic HC	11	15a-n	11a-i
GC - MS cross-plots		16a-e	

Abbreviations

List of abbreviations used for lithology description
(sorted alphabetically)

ang	=	angular
bar	=	Baryte (mud additive)
bit	=	bituminous
bl	=	blue/blueish
blk	=	black
br	=	brittle
brn	=	brown/brownish
Ca	=	Carbonate (limestone/chalk/dolomite/siderite)
calc	=	calcareous
carb	=	carbonaceous
cem	=	cement used as additive (under "cont") or to describe cemented S/Sst
Chert	=	Chert
chk	=	Chalk/chalky
cly	=	clayey/shaly
cngl	=	conglomeratic
Coal	=	Coal
Coal-ad	=	Coal-like additive (e.g. chromlignosulfonate)
Congl	=	Conglomerat
Cont	=	Contamination(s)
crs	=	coarse grained
dd	=	dried drilling mud
dol	=	Dolomite/dolomitic
drk	=	dark (colour)
dsk	=	dusk/dusky (colour)
evap	=	Salt/Gypsum/Halite (natural "Other" or as additive "Cont"
f	=	fine grained
fe	=	ferruginous
fib	=	fibres (mud additive/contamination)
fis	=	fissile
fos	=	fossiliferous
glauc	=	glauconite/glauconitic
gn	=	green/greenish
gy	=	grey/greyish
hd	=	hard
ign	=	Igneous (material derived from igneous source)
Kaolin	=	Kaolin(ite)
kln	=	kaolinitic
l	=	loose
lam	=	laminated/laminae
lt	=	light (colour)
m	=	medium (colour or grain size)
Marl	=	Marl (calcareous claystone/mudstone)
mic	=	micaceous
Mica-ad	=	Mica used as mud additive

mrl	= marly
No Mat.	= No material left over after washing
ns	= nutshells (mud additive)
ol	= olive
ool	= Oolite/oolitic
or	= orange
Other	= Other lithology/mineral, specified after this word
pi	= pink/pinkish
pl	= pale (colour)
prp	= paint/rust/plastic contaminations/additives
pu	= purple
pyr	= Pyrite/pyritic
red	= red/reddish
rnd	= round/rounded
s	= sandy
sft	= soft
S/Sst	= Sand and/or sandstone
Sh/Clst	= Shale and/or claystone
sid	= Siderite/sideritic
sil	= siliceous/cherty
slt	= silty
Sltst	= siltstone
st	= stained (with natural oil or oil-like additive)
tar-ad	= Tar-like additive (e.g. "Black Magic")
trbfgs	= turbodrilled fragments
Tuff	= Tuff
tuff	= tuffaceous
v col	= various colours
w	= white
wx	= waxy
y	= yellow/yellowish

List of abbreviations used for parameters, ratios and analytical methods
(sorted alphabetically)

CPI	=	Carbon Preference Index, $0.5 \times \frac{C25+C27+C29+C31+C33}{C24+C26+C28+C30+C32} + \frac{C25+C27+C29+C31+C33}{C26+C28+C30+C32+C34}$
EOM	=	Extractable Organic Matter
FID	=	Flame Ionisation Detector
FPD	=	Flame Photometric Detector
GC	=	Gas Chromatograph
GC-MS	=	Gas Chromatograph - Mass Spectrometer
GHM	=	Geofina Hydrocarbon Meter (combined thermal extraction - pyrolysis gas chromatograph)
HC	=	Hydrocarbons
HI	=	Hydrogen Index (100 x S2/TOC)
HPLC	=	High Pressure Liquid Chromatograph
MDBT(4/1)	=	Ratio of 4-/1-methyl dibenzothiophene
MNR	=	Ratio of 2-/1-methyl naphthalene
MP	=	Methyl phenanthrene
MPI1	=	Methyl phenanthrene Index, 1.5x(3MP+2MP) / P+9MP+1MP
MPLC	=	Medium Pressure Liquid Chromatograph
NSO	=	Nitrogen-, Sulphur- and Oxygen-compounds
OI	=	Oxygen Index (100 x S3/TOC)
P	=	Phenanthrene
PI	=	Production Index (S1/(S1+S2))
PP	=	Petroleum Potential (S1+S2)
Ro (%)	=	Measured Vitrinite Reflectance in Percent
Rock-Eval	=	Oil show and source rock evaluation instrument
S1	=	Amount of Free Hydrocarbons, Rock-Eval
S2	=	Amount of Kerogen pyrolysate, Rock-Eval
S3	=	Amount of Oxidised Organic Material
SCI	=	Spore Colour Index (maturity indicator)
TCD	=	Thermal Conductivity Detector
TAI	=	Thermal Alteration Index (maturity indicator)
Tmax	=	Temperature of maximum pyrolysate yield, Rock-Eval
TOC	=	Total Organic Carbon

EXPERIMENTAL PROCEDURES

Headspace Gas Analysis

The analysis is performed using a Perkin Elmer 8310 gas chromatograph with a 50 m Plot fused silica Al_2O_3/KCL column, loop injector and flame ionization detector. Nitrogen is used as carrier gas and the column is run from 70°C to 200°C, at a rate of 12°C/min. Final hold time is 5 min.

Two cm^3 of headspace gas are removed from each sample can for chromatographic analysis of the C_1 to C_7 range of hydrocarbons.

Occluded Gas Analysis

The gas chromatograph used for this analysis is identical to that used for headspace gas analysis and is operated under the same conditions.
The canned samples are washed in thermostat-controlled water to remove drilling contaminants and sieved on a 2 mm mesh sieve to remove large, caved rock fragments. An aliquot (ca 25 mg) of sieved sample is crushed with 25 cm^3 water in an airtight ball mill. After crushing, 2 cm^3 of the released gas are removed from the ball mill for gas chromatographic analysis.

Total Organic Carbon (TOC) and Total Carbon Analysis

This analysis is performed using a LECO CS244 Carbon Analyser.

Hand-picked lithologies from cuttings samples are crushed with a mortar and pestle and approximately 200 mg (50 mg for coals) are accurately weighed into LECO crucibles. The samples are then treated three times with 10 % hydrochloric acid to remove oxidized (carbonate) carbon, and washed four times with distilled water. The samples are dried on a hotplate at 60 - 70°C before analysis of total organic carbon. Total carbon is also analysed on the same instrument using approximately 200 mg of

untreated crushed whole rock. Oxidized (carbonate) carbon is calculated by weight difference.
Total organic carbon can also be analysed on the Rock-Eval II Pyrolyser during the normal run of the instrument.

Rock-Eval Pyrolysis

This analysis is performed by using a Rock-Eval II Pyrolyser. Approximately 100 mg crushed whole rock is analysed. The sample is first heated at 300°C for thee min in an atmosphere of helium to release the free hydrocarbons present (S1 peak) and then pyrolysed by increasing the temperature from 300°C to 600°C (temp. gradient 25°C/min) (S2 peak). Both the S1 and S2 yields are measured using a flame ionization detector (FID). In the temperature interval between 300°C and 390°C, the released gases are split and a proportion passed through a carbon dioxide trap, which is connected to a thermal conductivity detector (TCD). The value obtained from the TCD corresponds to the amount of oxygen contained in the kerogen of the sample and is reported as the S3 peak.

The ROCK-EVAL II Pyrolyser also analyses the TOC of each sample during the normal run of the instrument.

Thermal Extraction/Pyrolysis Gas Chromatography

The instrument used for this analysis is a Varian 3400 Gas Chromatograph interfaced to a pyrolysis oven (the pyrolyser). Up to 15 mg of whole rock sample is loaded on the pyrolyser and heated isothermally, at 300°C, for 4 min, during which time thermal extraction of the free hydrocarbons occurs (equivalent to the S1 peak of the Rock-Eval). The released gases pass to a 25 m OV1 column with a liquid nitrogen-cooled trap.

After 4 min the pyrolysis oven is temperature programmed up to 530°C, at a rate of 37°C/min, causing bound hydrocarbons to be released from the kerogen (equivalent to the S2 peak of the Rock-Eval). The released gases pass to a 25 m OV1 column with a liquid nitrogen-cooled trap.

The temperature program of the gas chromatograph oven, in which the columns are housed is -10°C to 290°C at a rate of 6°C/min.
Both the columns are linked to a FID.

Solvent Extraction of Organic Matter (EOM)

The samples are extracted using a Tecator Soxtec HT-System. Carefully weighed samples are taken in a pre-extracted thimble. Some activated copper is added to the extraction cup and dichloromethane is used as an extraction solvent. The samples are boiled for 1 hour and then rinsed for 2 hours. If the samples contain more than 10 % TOC, then the whole procedure is repeated once. The resulting solution is filtered and the solvent removed by rotary evaporation (200 mb, 30°C). The amount of EOM is gravimetrically established.

Removal of Asphaltenes

Asphaltenes are removed from the EOM by precipitation in n-pentane. N-pentane is added to the EOM and the solution is then stored in the dark and at ambient temperature for at least 8 hours. The solution is then filtered (Baker 10-spe system) and the precipitated asphaltenes dissolved in dichloromethane are returned to the original flask. The solvent is removed by rotary evaporation (200 mb and 30°C).

Chromatographic Separation of deasphaltened EOM

Chromatographic separation is performed using an MPLC system developed by the company. The EOM (minus asphaltenes) is injected into the MPLC and separated using hexane as an eluent. The saturated and aromatic hydrocarbon fractions are collected and the solvent removed using a rotary evaporator at 30°C. The fractions are then transfered to small pre-weighed vials and evaporated to dryness in a stream of nitrogen. The vials are re-weighed to obtain the weights of both the saturated and the aromatic fractions. The weight of the NSO fraction which is retained on the column, is obtained by weight difference.

Gas Chromatographic Analyses

Saturated hydrocarbon fractions:

The instrument used for this analysis is a PERKIN ELMER 8320 Gas Chromatograph equipped with an FID detector and an OV1 column. The carrier gas is helium and the temperature program runs from 80°C to 300°C at a rate of 4°C/min. Final hold time is 20 mins. The saturated hydrocarbon fraction is diluted by 1:30 and a 1 microlitre aliquot of this is injected into the instrument.

Aromatic hydrocarbon fractions:

The instrument used is a Varian 3400 Gas Chromatograph with a 25 m SE 54 capillary column, split injector and a column splitter leading to FID and FPD detectors, which allows simultaneous analysis of co-eluting hydrocarbons and sulphur compounds. The carrier gas is helium and the temperature program runs from 40°C to 290°C at a rate of 4°C/min. Final hold time is 10 mins. The aromatic hydrocarbon fraction is diluted by 1:30 and a 1 microlitre aliquot of this is injected into the instrument.

Whole Oil/Whole Extract

Whole oil chromatograms are determined on a Perkin Elmer Sigma 2000 gas chromatograph fitted with a split injector, 25 m SE54 capillary column and effluent splitter connected to FID and FPD detectors allowing simultaneous determination of hydrocarbons and sulphur compounds. Approximately 0.1 microlitres of whole oil are injected and the temperature program on the chromatograph runs from -10°C to 300°C at 4°C/min.

Vitrinite Reflectance Analysis

Samples to be analysed for vitrinite reflectance are ground to small granules (if necessary) using a pestle and mortar and are then mounted in a fast setting resin. The resin blocks are first ground flat using a coarse corundum paper to expose the rock granule surfaces and then with three finer grades of corundum paper to improve these surfaces and reduce scratches. The blocks are finally polished on a rotating Selvyt-covered lap using three grades of diamond suspension fluid. An appropriate lubricant is used when necessary.

Reflectance measurements are made under oil immersion at 546nm using a Zeiss Universal Photo microscope II equipped with a HP 9000 series computer system. The polished blocks are mounted on the microscope stage and scanned manually in order to locate and measure particles of vitrinite. An attempt is made to obtain readings from 15-20 individual particles per sample, but this is not always possible in samples with low amounts of phytoclasts.

Visual Kerogen Misroscopy

Kerogen concentrates are obtained from samples prepared by HCl and HF digestion followed by zinc bromide flotation to remove pyrite and other heavy mineral residues.

The cleaned concentrates are mounted on slides by smearing, these being analysed microscopically in transmitted white light and UV light (530 nm barrier filter) to determine the Spore Colour or Thermal Alteration Indices (SCI or TAI) and the colour and intensity of spore fluorescence. The spore colour index ,backed by spore fluorescence, is used as an alternative maturity parameter to verify the results obtained from vitrinite reflectance.

Fluorescence Colour	Colour Index	Corresp. Vitrinite Reflectance
Green	1	0.2 %
Green/yellow	2	0.2-0.3 %
Yellow	3	0.3 %
Yellow/orange	4	0.4 %
Light orange	5	0.5 %
Moderate-orange	6	0.6 %
Dark orange	7	0.8 %
Dark orange/red	8	1.0 %
Spore fluorescence extinction	9	1.3 %

NB. This table only provides a rudimentary correlation as vitrinite reflectance and spore fluorescence colour are both independently affected by factors such as depositional environment and categanic history.

Combined Gas Chromatography - Mass Spectrometry (GC-MS)

The GC-MS analyses are performed on a VG TS250 system interfaced to a Hewlett Packard 5890 gas chromatograph. The GC is fitted with a fused silica SE54 capillary column (40 m x 0.22 mm i.d.) directly into the ion source. Helium (12 psi) is used as carrier gas and the injections are performed in splitless mode. The GC oven is programmed from 45°C to 150°C at 35°C/min, at which point the programme rate is 2°C/min up to 310°C where the column is held isothermally for 15 min. For the aromatic hydrocarbons, the GC oven is programmed from 50°C to 310°C at 5°C/min. and held isothermally at 310°C for 15 min. The mass spectrometer is operated in electron impact (EI) mode at 70 eV electron energy, a trap current of 500 uA and a source temperature of 220°C. The instrument resolution used is 1500 (10 % value).

The data system used is a VG PDP11/73 for acquiring data, and a Vax station 3100

for peak processing the data. The samples are analysed in multiple ion detection mode (MID) at a scan cycle time of approximately 1.1 sec.
Calculation of peak ratios is performed from peak heights in the appropriate mass fragmentograms.

Saturated Fractions

Terpanes

The most commonly used fragment ions for detection of terpanes are M/Z 163 for detection of 25,28,30 trisnormoretane or 25,28,30 trisnorhopane, M/Z 177 for detection of demethylated hopanes or moretanes, M/Z 191 for detection of tricyclic, tetracyclic- and pentacyclic terpanes and M/Z 205 for methylated hopanes or moretanes. The molecular ions M/Z 370 and 384 are also recorded for identification of C_{27} and C_{28} triterpanes respectively.

Steranes

The most commonly used fragment ions for detection of steranes are M/Z 149 to distinguish between 5α and 5β steranes, M/Z 189 and 259 for detection of rearranged steranes, M/Z 217 for detection of rearranged and normal steranes and M/Z 218 for detection of 14β(H) 17β(H) steranes.

The M/Z 231 fragment ion is used to detect possible aromatic contamination of the saturated fraction. It is also used for detection of methyl steranes.

Aromatic Fractions

Alkyl-substituted Benzenes

The M/Z 106 fragment ion is often used to detect the alkyl-substituted benzenes. It is especially useful for the detection of di-substituted benzenes. M/Z 134 can also be used for the detection of C_4-alkylbenzenes, but benzothiophene will also give a signal with this fragment ion.

Naphthalenes

Methyl naphthalenes are normally detected by the M/Z 142 fragment ion, while C_2-naphthalenes are detected by M/Z 156 and C_3-naphthalenes by M/Z 170.

Benzothiophenes and Dibenzothiophenes

Benzothiophene can be detected, as mentioned above, by M/Z 134. The M/Z 198 and M/Z 212 fragment ions are used for methyl-substituted dibenzothiophenes and dimethyl-substituted dibenzothiophenes respectively.

Phenanthrenes

Phenanthrene is detected using the M/Z 178 fragment ion. Anthracene will, if present, also give a signal in the M/Z 178 fragment ion. Methyl-substituted phenanthrenes give signals in the M/Z 192 fragment ion, while the M/Z 206 fragment ion shows the dimethyl-substituted phenanthrenes and the M/Z 220 fragment ion shows the C_3 substituted phenanthrenes.

Aromatic Steranes

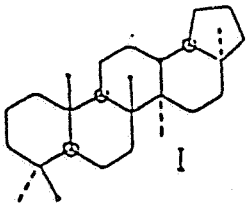
Monoaromatic steranes are detected using the M/Z 253 fragment ion, while the triaromatic steranes are detected using the M/Z 231 fragment ion.

Mass Fragmentograms representing Terpanes
(M/Z 163, 177, 191, 205, 370, 384, 398, 412 and 426)

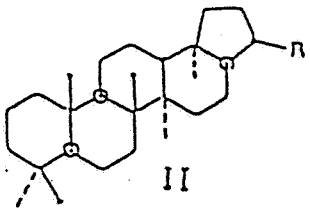
Peak Identification: (α and β refer to hydrogen atoms at C-17 and C-21 respectively unless indicated otherwise)

A.	18α trisnorneohopane (T_s)	$C_{27}H_{44}$	(I)
B.	17α trisnorhopane (T_m)	$C_{27}H_{46}$	(II, R=H)
Z.	Bisnorhopane	$C_{28}H_{48}$	(IV)
C.	αβ norhopane	$C_{29}H_{50}$	(II, R=C_2H_5)
D.	βα norhopane	$C_{29}H_{50}$	(III, R=C_2H_5)
E.	αβ hopane	$C_{30}H_{52}$	(II, R=i-C_3H_7)
F.	βα hopane	$C_{30}H_{52}$	(III, R=i-C_3H_7)
G.	22S αβ homohopane	$C_{31}H_{54}$	(II, R=i-C_4H_9)
H.	22R αβ homohopane	$C_{31}H_{54}$	(II, R=i-C_4H_9)
I.	βα homohopane	$C_{31}H_{54}$	(III, R=i-C_4H_9)
J.	22S αβ bishomohopane	$C_{32}H_{56}$	(II, R=i-C_5H_{11})
	22R αβ bishomohopane	$C_{32}H_{56}$	(II, R=i-C_5H_{11})
K.	22S αβ trishomohopane	$C_{33}H_{58}$	(II, R=i-C_6H_{13})
	22R αβ trishomohopane	$C_{33}H_{58}$	(II, R=i-C_6H_{13})
L.	22S αβ tetrakishomohopane	$C_{34}H_{60}$	(II, R=i-C_7H_{15})
	22R αβ tetrakishomohopane	$C_{34}H_{60}$	(II, R=i-C_7H_{15})
M.	22S αβ pentakishomohopane	$C_{35}H_{62}$	(II, E=i-C_8H_{17})
	22R αβ pentakishomohopane	$C_{35}H_{62}$	(II, R=i-C_8H_{17})
P.	Tricyclic terpane	$C_{23}H_{42}$	(V, R=i-C_4H_9)
Q.	Tricyclic terpane	$C_{24}H_{44}$	(V, R=i-C_5H_{11})
R.	Tricyclic terpane (17R, 17S)	$C_{25}H_{66}$	(V, R=i-C_6H_{13})
S.	Tetracyclic terpane	$C_{24}H_{42}$	(VI)
T.	Tricyclic terpane (17R, 17S)	$C_{26}H_{48}$	(V, R=i-C_7H_{15})
N.	Tricyclic terpane	$C_{21}H_{38}$	(V, R=C_2H_5)
O.	Tricyclic terpane	$C_{22}H_{40}$	(V, R=C_3H_7)
Y.	25,28,30-trisnorhopane/moretane	$C_{27}H_{46}$	(VII)
X.	αβ diahopane	$C_{30}H_{52}$	(VIII)

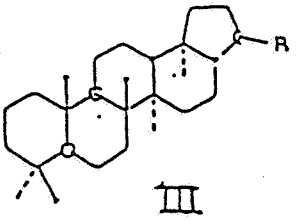
STRUCTURES REPRESENTING TERPANES



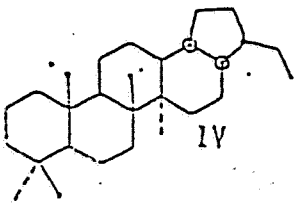
I



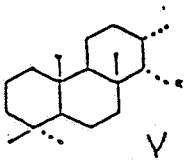
II



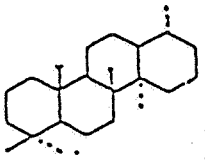
III



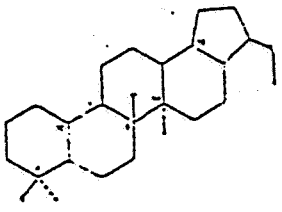
IV



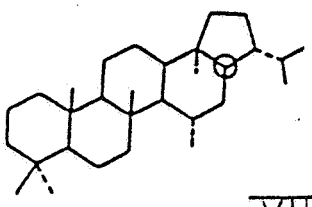
V



VI



VII



VIII

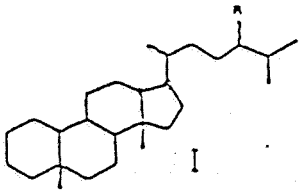
Mass Fragmentograms representing Steranes

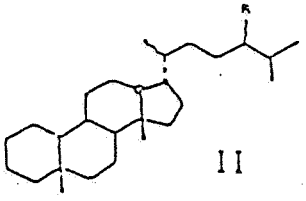
(M/Z 149, 189, 217, 218, 259, 372, 386, 400 and 414)

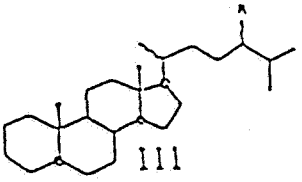
Peak Identifications: α and β refer to hydrogen atoms at C-5, C-14 and C-17 in regular steranes and at C-13 and C-17 in diasteranes).

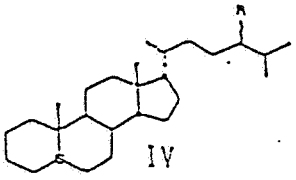
a.	20S βα diacholestane	$C_{27}H_{48}$	(I, R=H)
b.	20R βα diacholestane	$C_{27}H_{48}$	(I, R=H)
c.	20S αβ diacholestane	$C_{27}H_{48}$	(II, R=H)
d.	20R αβ diacholestane	$C_{27}H_{48}$	(II, R=H)
e.	20S βα 24-methyl-diacholestane	$C_{28}H_{50}$	(I, R=CH_3)
f.	20R βα 24-methyl-diacholestane	$C_{28}H_{50}$	(I, R=CH_3)
g.	20S αβ 24-methyl-diacholestane	$C_{28}H_{50}$	(II, R=CH_3)
	+ 20S ααα cholestane	$C_{27}H_{48}$	(III, R=H)
h.	20S βα 24-ethyl-diacholestane	$C_{29}H_{52}$	(II, R=C_2H_5)
	+ 20R αββ cholestane	$C_{27}H_{48}$	(IV, R=H)
i.	20S αββ cholestane	$C_{27}H_{48}$	(IV, R=H)
	+ 20R αβ 24-methyl-diacholestane	$C_{28}H_{50}$	(II, R=CH_3)
j.	20R ααα cholestane	$C_{27}H_{48}$	(III, R=H)
k.	20R βα 24-ethyl-diacholestane	$C_{29}H_{52}$	(I, R=C_2H_5)
l.	20R αβ 24-ethyl-diacholestane	$C_{29}H_{52}$	(II, R=C_2H_5)
m.	20S ααα 24-methyl-cholestane	$C_{28}H_{50}$	(III, R=CH_3)
n.	20R αββ 24-methyl-cholestane	$C_{28}H_{50}$	(IV, R=CH_3)
	+ 20R αβ 24-ethyl-diacholestane	$C_{29}H_{52}$	(II, R=C_2H_5)
o.	20S αββ 24-methyl-cholestane	$C_{28}H_{50}$	(IV, R=CH_3)
p.	20R ααα 24-methyl-cholestane	$C_{28}H_{50}$	(III, R=CH_3)
q.	20S ααα 24-ethyl-cholestane	$C_{29}H_{52}$	(III, R=C_2H_5)
r.	20R αββ 24-ethyl-cholestane	$C_{29}H_{52}$	(IV, R=C_2H_5)
s.	20S αββ 24-ethyl-cholestane	$C_{29}H_{52}$	(IV, R=C_2H_5)
t.	20R ααα 24-ethyl-cholestane	$C_{29}H_{52}$	(III, R=C_2H_5)
u.	5α sterane	$C_{21}H_{36}$	(VI, R=C_2H_5)
v.	5α sterane	$C_{22}H_{38}$	(VI, R=C_3H_7)

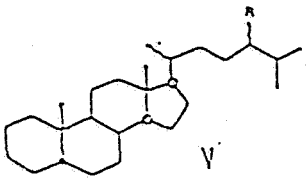
STRUCTURES REPRESENTING STERANES

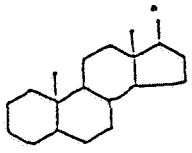

I


II


III


IV


V

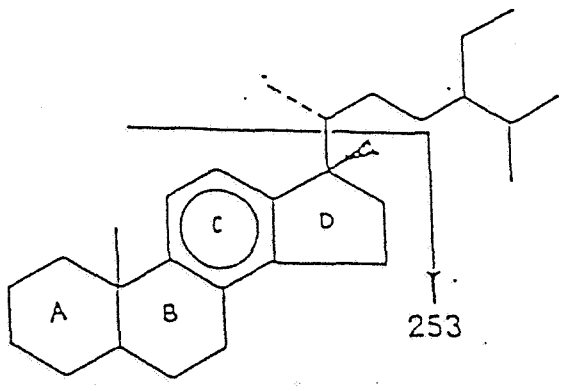

VI

Mass Fragmentograms representing Monoaromatic Steranes (M/Z 253)

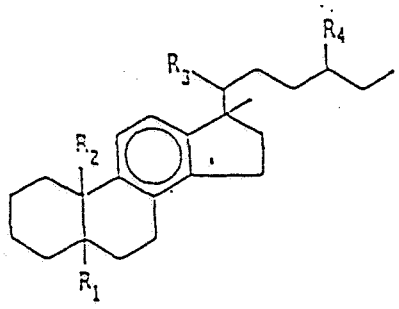
Description of C-ring monoaromatic steroid hydrocarbons

Peak	Substituents R_1	R_2	R_3	R_4	Abbreviation of Compound
A1					$C_{21}M$
B1					$C_{22}MA$
C1	β(H)	CH_3	$S(CH_3)$	H	$\beta SC_{27}MA$
	β(H)	CH_3	$R(CH_3)$	H	$\beta RC_{27}MA$
D1	CH_3	H	$R(CH_3)$	H	$RC_{27}DMA$
	α(H)	CH_3	$S(CH_3)$	H	$\alpha SC_{27}MA$
E1	β(H)	CH_3	$S(CH_3)$	CH_3	$\beta SC_{28}MA$
	CH_3	H	$S(CH_3)$	CH_3	$SC_{28}DMA$
F1	α(H)	CH_3	$R(CH_3)$	H	$\alpha RC_{27}MA$
	α(H)	CH_3	$S(CH_3)$	CH_3	$\alpha SC_{28}MA$
	β(H)	CH_3	$R(CH_3)$	CH_3	$\beta RC_{28}MA$
G1	CH_3	H	$R(CH_3)$	CH_3	$RC_{28}DMA$
	β(H)	CH_3	$S(CH_3)$	C_2H_5	$\beta SC_{29}MA$
	CH_3	H	$S(CH_3)$	C_2H_5	$SC_{29}DMA$
	α(H)	CH_3	$R(CH_3)$	CH_3	$\alpha RC_{28}MA$
H1	β(H)	CH_3	$R(CH_3)$	C_2H_5	$\beta RC_{29}MA$
	CH_3	H	$R(CH_3)$	C_2H_5	$RC_{29}DMA$
I1	α(H)	CH_3	$R(CH_3)$	C_2H_5	$\alpha RC_{29}MA$

STRUCTURES REPRESENTING MONOAROMATIC STERANES



I

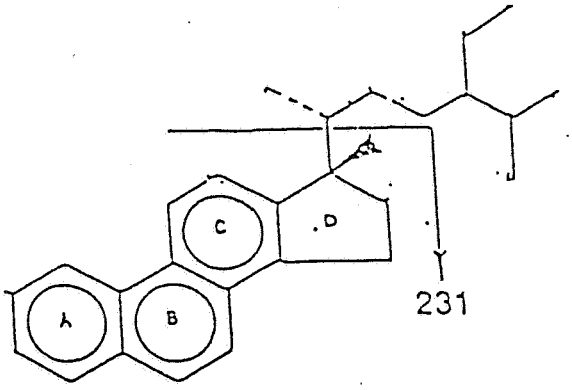


Mass Fragmentograms representing Triaromatic Steranes (M/Z 231)

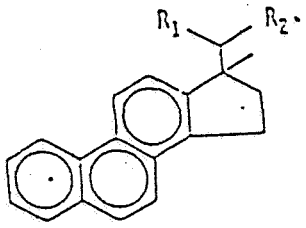
Description of ABC-ring triaromatic steroid hydrocarbons

	Substituents		Abbreviation
Peak	**R_1**	**R_2**	**of Compound**
a1	CH_3	H	$C_{20}TA$
b1	CH_3	CH_3	$C_{21}TA$
c1	$S(CH_3)$	C_6H_{1-3}	$SC_{26}TA$
d1	$R(CH_3)$	C_6H_{13}	$RC_{26}TA$
	$S(CH_3)$	C_7H_{15}	$SC_{27}TA$
e1	$S(CH_3)$	C_8H_{17}	$SC_{28}TA$
f1	$S(CH_3)$	C_7H_{15}	$RC_{27}TA$
g1	$R(CH_3)$	C_8H_{17}	$RC_{28}TA$

STRUCTURES REPRESENTING TRIAROMATIC STERANES



II



Stable Carbon Isotope Ratio Mass Spectrometry

Carbon isotope analysis is performed on a dual inlet VG SIRA 10 instrument. The combustion of the samples is performed by a Carlo Erba EA 1108 element analyser directly connected to the inlet system of the mass spectrometer.

The combustion temperature is 1020°C and the carrier gas used was Helium. After the combustion H_2O and CO_2 are trapped in individual cool traps. The CO_2 gas is then heated up before admission into the mass spectrometer. The whole operation is controlled by an IBM PC50 computer system.

δ-values

The isotope ratios are given as δ-values in ‰ versus the PDB-standard:

$$\delta^{13}C = (R \text{ sample} - R \text{ standard}/R \text{ standard}) \times 1000$$

$$R = {}^{13}C/{}^{12}C$$

The PDB-standard (a marine chalk of the Pee Dee-formation, USA) was created by Craig 1957. All results of $^{13}C/^{12}C$-analysis of organic matter today are calculated (Craig correction) against this international standard.

Reproducibility

The precision of the combustion system and the mass spectrometer is controlled by determination of an international calibrated standard, NBS22 oil and a house standard carbon. Replicate analyses are also performed on samples.

Table 1a: C1 to C7 hydrocarbons in HEADSPACE gas
(µl gas/kg rock)

Project: AREA 35/11
Well: NOCS 35/11-6
Depth unit of measure: m * Indicated values in ml gas/kg rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 / nC4
1000.00	2276	64	46	2	6	1	2394	118	4.9	0.33
1080.00	6349	31	5	2	2	-	6389	40	0.6	1.00
1160.00	29646	142	28	6	2	1	29824	178	0.6	3.00
1240.00	10039	42	9	2	1	1	10093	54	0.5	2.00
1320.00	17309	84	9	2	1	71	17405	96	0.6	2.00
1400.00	12238	147	18	15	5	2	12423	185	1.5	3.00
1480.00	11382	120	19	28	8	12	11557	175	1.5	3.50
1560.00	13726	132	11	6	2	-	13877	151	1.1	3.00
1640.00	20001	397	23	9	3	1	20433	432	2.1	3.00
1720.00	11555	429	54	8	3	1	12049	494	4.1	2.67
1800.00	7261	158	19	4	2	-	7444	183	2.5	2.00
1880.00	9699	183	30	5	3	1	9920	221	2.2	1.67
1960.00	793	53	25	7	4	3	882	89	10.1	1.75
2040.00	574	77	81	7	21	19	760	186	24.5	0.33
2120.00	998	23	11	5	3	3	1040	42	4.0	1.67
2200.00	1393	224	687	68	318	165	2690	1297	48.2	0.21
2280.00	1389	47	185	30	215	94	1866	477	25.6	0.14
2360.00	3294	166	327	38	120	46	3945	651	16.5	0.32
2440.00	1633	98	94	44	32	25	1901	268	14.1	1.38
2520.00	3064	193	84	33	15	9	3389	325	9.6	2.20
2600.00	6	-	-	-	-	-	6	-	-	-
2618.00	6503	219	105	37	17	6	6881	378	5.5	2.18
2636.00	2998	299	163	40	19	7	3519	521	14.8	2.11

Table 1a: C1 to C7 hydrocarbons in HEADSPACE gas
(μl gas/kg rock)

Project: AREA 35/11
Well: NOCS 35/11-6
Depth unit of measure: m * Indicated values in ml gas/kg rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wetness	iC4/nC4
2654.00	2442	213	113	30	19	15	2817	375	13.3	1.58
2672.00	3482	352	539	46	225	88	4644	1162	25.0	0.20
2690.00	2316	197	102	25	16	9	2656	340	12.8	1.56
2708.00	10628	3403	5078	620	1042	204	20771	10143	48.8	0.60
2726.00	6259	510	438	51	126	51	7384	1125	15.2	0.40
2744.00	3460	297	354	42	123	43	4276	816	19.1	0.34
2762.00	3148	310	163	38	19	12	3678	530	14.4	2.00
2780.00	709	93	126	30	62	35	1020	311	30.5	0.48
2798.00	3290	574	580	96	57	7	4597	1307	28.4	1.68
2816.00	5416	1541	1425	169	256	94	8807	3391	38.5	0.66
2834.00	5985	1765	1986	210	453	97	10399	4414	42.5	0.46
2852.00	5158	1127	1362	166	370	140	8183	3025	37.0	0.45
2870.00	2154	236	298	48	80	41	2816	662	23.5	0.60
2888.00	4004	775	1502	163	509	211	6953	2949	42.4	0.32
2906.00	12539	2210	5266	947	2563	810	23525	10986	46.7	0.37
2915.00	8439	1645	2706	399	1174	425	14363	5924	41.2	0.34
2924.00	10407	2646	4239	544	1673	551	19509	9102	46.7	0.33
2933.00	9908	2864	4600	594	1999	766	19965	10057	50.4	0.30
2942.00	10379	3101	5830	697	2586	1028	22593	12214	54.1	0.27
2951.00	9545	2468	4428	561	1908	627	18910	9365	49.5	0.29
2960.00	7889	2139	4636	562	2254	813	17480	9591	54.9	0.25
2969.00	2524	614	1321	169	686	401	5314	2790	52.5	0.25
2978.00	7719	2438	4940	561	2474	1157	18132	10413	57.4	0.23

Table 1a: C1 to C7 hydrocarbons in HEADSPACE gas
(μl gas/kg rock)

Project: AREA 35/11
Well: NOCS 35/11-6
Depth unit of measure: m * Indicated values in ml gas/kg rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4/nC4
2987.00	13640	4436	7174	628	2683	907	28561	14921	52.2	0.23
2996.00	8664	3567	6276	501	2273	742	21281	12617	59.3	0.22
3005.00	6416	2247	4325	372	1671	535	15031	8615	57.3	0.22
3014.00	9177	3467	6734	566	2480	793	22424	13247	59.1	0.23
3023.00	6925	2749	5521	454	2059	654	17708	10783	60.9	0.22
3032.00	6641	2644	5571	477	2184	755	17517	10876	62.1	0.22
3041.00	9829	3875	7599	759	2487	499	24549	14720	60.0	0.31
3050.00	5795	2379	4352	418	1405	334	14349	8554	59.6	0.30
3059.00	5154	2796	5581	505	1992	523	16028	10874	67.8	0.25
3068.00	4279	1724	3211	323	1087	625	10624	6345	59.7	0.30
3077.00	8004	2806	4977	464	1653	478	17904	9900	55.3	0.28
3086.00	2536	565	890	90	369	14456	4450	1914	43.0	0.24
3095.00	7819	2707	4545	465	1594	569	17130	9311	54.4	0.29
3104.00	13822	4226	6458	723	1758	445	26987	13165	48.8	0.41
3113.00	848	289	452	53	128	47	1770	922	52.1	0.41
3122.00	20227	5792	7765	750	2293	720	36827	16600	45.1	0.33
3131.00	9497	2649	2690	225	690	244	15751	6254	39.7	0.33
3140.00	10276	3078	2686	222	661	203	16923	6647	39.3	0.34
3149.00	11501	4040	3520	320	940	335	20321	8820	43.4	0.34
3158.00	11490	3180	2319	188	562	245	17739	6249	35.2	0.33
3167.00	545	374	608	71	277	238	1875	1330	70.9	0.26
3176.00	744	287	487	54	271	273	1843	1099	59.6	0.20
3185.00	3877	1581	2320	280	999	561	9057	5180	57.2	0.28

Table 1a: C1 to C7 hydrocarbons in HEADSPACE gas
(μl gas/kg rock)

Project: AREA 35/11
Well: NOCS 35/11-6
Depth unit of measure: m * Indicated values in ml gas/kg rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4/nC4
3194.00	7037	1675	1853	220	800	564	11585	4548	39.3	0.28
3203.00	8612	1753	1159	89	179	99	11792	3180	27.0	0.50
3212.00	14022	3344	1502	92	229	48	19189	5167	26.9	0.40
3221.00	12275	2676	1645	101	412	143	17109	4834	28.3	0.25
3230.00	12577	3414	1761	119	306	65	18177	5600	30.8	0.39
3239.00	10969	3101	1935	131	359	97	16495	5526	33.5	0.36
3257.00	7800	3778	3571	284	946	422	16379	8579	52.4	0.30
3266.00	4996	3028	4033	347	1116	404	13520	8524	63.1	0.31
3275.00	4738	2926	6000	665	2629	1289	16958	12220	72.1	0.25
3284.00	4125	2411	4960	547	2107	942	14150	10025	70.9	0.26
3293.00	7299	3461	7631	908	3707	1906	23006	15707	68.3	0.24
3302.00	7106	4695	10230	1116	4869	4900	28016	20910	74.6	0.23
3311.00	1368	702	1685	410	1691	1886	5856	4488	76.6	0.24
3320.00	1549	631	1472	233	942	1416	4827	3278	67.9	0.25
3329.00	2113	1322	3265	464	1862	2148	9026	6913	76.6	0.25
3338.00	2810	1658	3347	387	1583	1113	9785	6975	71.3	0.24
3347.00	2680	1570	3190	373	1502	1907	9315	6635	71.2	0.25
3356.00	1816	1596	4324	585	2400	2523	10721	8905	83.1	0.24
3365.00	5882	4486	8553	949	3817	2923	23687	17805	75.2	0.25
3374.00	5058	3859	6849	751	2925	2099	19442	14384	74.0	0.26
3383.00	6899	5067	7465	686	2831	2884	22948	16049	69.9	0.24
3392.00	6863	4947	7022	622	2665	2032	22119	15256	69.0	0.23
3401.00	7820	5084	7884	800	3283	3281	24871	17051	68.6	0.24

Table 1a: C1 to C7 hydrocarbons in HEADSPACE gas
(μl gas/kg rock)

Project: AREA 35/11
Well: NOCS 35/11-6
Depth unit of measure: m * Indicated values in ml gas/kg rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4/nC4
3410.00	7091	6048	9296	902	3439	2894	26776	19685	73.5	0.26
3419.00	4290	4283	7965	849	3358	2914	20745	16455	79.3	0.25
3428.00	3628	3721	7065	837	3204	3244	18455	14827	80.3	0.26
3437.00	2749	2668	5781	685	2776	2194	14659	11910	81.3	0.25
3446.00	1917	1457	3407	520	1652	1076	8953	7036	78.6	0.31
3455.00	2575	2510	5264	664	2530	1908	13543	10968	81.0	0.26
3464.00	4237	3060	4897	564	1979	1787	14737	10500	71.3	0.28
3473.00	3324	2568	3906	380	1307	994	11485	8161	71.1	0.29
3482.00	10672	4057	2851	233	652	448	18465	7793	42.2	0.36
3491.00	4699	2218	1869	158	438	324	9382	4683	49.9	0.36
3500.00	4594	2948	3227	315	968	759	12052	7458	61.9	0.33
3509.00	1193	567	832	93	308	470	2993	1800	60.1	0.30
3518.00	9654	1608	1101	121	380	425	12864	3210	25.0	0.32
3527.00	18471	2314	984	73	236	258	22078	3607	16.3	0.31
3536.00	28954	3771	1364	82	196	217	34367	5413	15.8	0.42
3545.00	16962	3340	1398	97	217	177	22014	5052	23.0	0.45
3554.00	28774	3747	1194	67	149	130	33931	5157	15.2	0.45
3563.00	43795	11809	5365	349	793	460	62111	18316	29.5	0.44
3572.00	18171	4079	2260	176	548	564	25234	7063	28.0	0.32
3581.00	36186	7211	2929	205	411	235	46942	10756	22.9	0.50
3590.00	6710	1445	925	85	208	351	9373	2663	28.4	0.41
3599.00	3796	1265	1002	99	271	591	6433	2637	41.0	0.37
3617.00	2944	817	805	78	344	466	4988	2044	41.0	0.23

Table 1a: C1 to C7 hydrocarbons in HEADSPACE gas
(μl gas/kg rock)

Project: AREA 35/11
Well: NOCS 35/11-6
Depth unit of measure: m * Indicated values in ml gas/kg rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4/nC4
3626.00	1269	372	433	52	260	842	2386	1117	46.8	0.20
3644.00	1297	329	423	44	305	503	2398	1101	45.9	0.14
3653.00	1136	573	1726	131	1007	1074	4573	3437	75.2	0.13
3671.00	1050	295	237	32	75	98	1689	639	37.8	0.43
3680.00	1115	404	662	51	322	515	2554	1439	56.3	0.16
3698.00	855	340	243	24	94	247	1556	701	45.1	0.26
3707.00	772	223	246	37	169	340	1447	675	46.7	0.22
3725.00	4048	2071	1509	255	555	1215	8438	4390	52.0	0.46
3734.00	1564	780	1380	343	939	2059	5006	3442	68.8	0.37
3752.00	5673	2241	1747	401	1070	3091	11132	5459	49.0	0.37
3761.00	1313	952	1404	356	1002	2734	5027	3714	73.9	0.36
3779.00	2233	835	544	90	217	587	3919	1686	43.0	0.41
3788.00	1135	627	553	103	258	789	2676	1541	57.6	0.40
3806.00	1363	767	736	115	519	1403	3500	2137	61.1	0.22
3815.00	1417	748	695	126	326	624	3312	1895	57.2	0.39
3833.00	4074	1682	1476	151	446	733	7829	3755	48.0	0.34
3842.00	2049	815	751	123	340	657	4078	2029	49.8	0.36
3860.00	1130	919	1471	336	926	2377	4782	3652	76.4	0.36
3869.00	645	622	1154	278	791	1968	3490	2845	81.5	0.35
3887.00	837	569	1701	453	1351	28927	4911	4074	83.0	0.34
3896.00	1294	605	1425	385	1062	2339	4771	3477	72.9	0.36
3914.00	509	572	1491	294	910	1737	3776	3267	86.5	0.32
3923.00	613	599	1541	314	892	1754	3959	3346	84.5	0.35

Table 1a: C1 to C7 hydrocarbons in HEADSPACE gas
(µl gas/kg rock)

Project: AREA 35/11
Well: NOCS 35/11-6
Depth unit of measure: m * Indicated values in ml gas/kg rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4/nC4
3941.00	463	424	1604	483	1376	2921	4350	3887	89.4	0.35
3950.00	931	495	998	267	749	1697	3440	2509	72.9	0.36
3968.00	271	130	213	52	141	305	807	536	66.4	0.37
3977.00	235	141	253	74	189	507	892	657	73.7	0.39
3989.00	637	562	1958	172	1162	7815	4491	3854	85.8	0.15

Table 1b: C1 to C7 hydrocarbons in CUTTINGS gas
(µl gas/kg rock)

Project: AREA 35/11
Well: NOCS 35/11-6
Depth unit of measure: m * Indicated values in ml gas/kg source rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4/nC4
1000.00	98	4	8	1	8	10	119	21	17.7	0.13
1080.00	79	5	2	-	1	4	87	8	9.2	-
1160.00	89	6	3	1	1	-	100	11	11.0	1.00
1240.00	55	4	2	-	1	-	62	7	11.3	-
1320.00	84	3	1	-	-	-	88	4	4.6	-
1400.00	76	9	6	8	4	3	103	27	26.2	2.00
1480.00	44	7	24	8	27	41	110	66	60.0	0.30
1560.00	60	8	4	4	2	1	78	18	23.1	2.00
1640.00	38	7	4	3	2	3	54	16	29.6	1.50
1720.00	29	15	19	10	5	1	78	49	62.8	2.00
1800.00	42	9	7	4	2	1	64	22	34.4	2.00
1880.00	20	5	7	3	2	5	37	17	46.0	1.50
1960.00	13	2	5	2	3	7	25	12	48.0	0.67
2040.00	11	1	10	2	15	49	39	28	71.8	0.13
2120.00	38	10	22	3	26	55	99	61	61.6	0.12
2200.00	26	4	7	1	11	34	49	23	46.9	0.09
2280.00	27	3	10	3	24	56	67	40	59.7	0.13
2360.00	27	4	8	3	12	51	54	27	50.0	0.25
2440.00	37	13	107	18	120	68	295	258	87.5	0.15
2520.00	42	12	31	17	51	38	153	111	72.6	0.33
2600.00	31	7	12	6	6	3	62	31	50.0	1.00
2618.00	60	35	86	12	50	75	243	183	75.3	0.24
2636.00	26	6	15	6	6	2	59	33	55.9	1.00

Table 1b: C1 to C7 hydrocarbons in CUTTINGS gas
(µl gas/kg rock)

Project: AREA 35/11
Well: NOCS 35/11-6
Depth unit of measure: m * Indicated values in ml gas/kg source rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 / nC4
2654.00	48	15	31	11	20	56	125	77	61.6	0.55
2672.00	45	18	100	21	119	142	303	258	85.2	0.18
2690.00	52	21	40	13	19	35	145	93	64.1	0.68
2708.00	55	29	195	20	141	54	440	385	87.5	0.14
2726.00	63	45	369	40	410	253	927	864	93.2	0.10
2744.00	50	27	100	23	98	150	298	248	83.2	0.23
2762.00	58	19	39	14	13	8	143	85	59.4	1.08
2780.00	37	23	194	27	194	153	475	438	92.2	0.14
2798.00	56	19	68	18	20	7	181	125	69.1	0.90
2816.00	53	94	452	63	239	119	901	848	94.1	0.26
2834.00	57	65	299	61	111	54	593	536	90.4	0.55
2852.00	35	29	159	33	133	107	389	354	91.0	0.25
2870.00	54	31	259	31	236	125	611	557	91.2	0.13
2888.00	40	21	105	19	85	79	270	230	85.2	0.22
2906.00	51	25	117	29	131	179	353	302	85.6	0.22
2915.00	155	295	1862	432	2032	1318	4776	4621	96.8	0.21
2924.00	219	640	3790	830	3413	1853	8892	8673	97.5	0.24
2933.00	253	877	5015	1073	4324	1815	11542	11289	97.8	0.25
2942.00	167	392	2932	711	3200	1917	7402	7235	97.7	0.22
2951.00	288	655	4201	853	4112	2303	10109	9821	97.2	0.21
2960.00	323	733	5040	1092	5345	3160	12533	12210	97.4	0.20
2969.00	365	704	4970	1046	5250	2803	12335	11970	97.0	0.20
2978.00	351	998	6529	1156	5976	2939	15010	14659	97.7	0.19

Table 1b: C1 to C7 hydrocarbons in CUTTINGS gas
(µl gas/kg rock)

Project: AREA 35/11
Well: NOCS 35/11-6
Depth unit of measure: m * Indicated values in ml gas/kg source rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 / nC4
2987.00	177	867	5873	967	5079	2307	12963	12786	98.6	0.19
2996.00	495	1553	83104	1163	6070	2251	92385	91890	99.5	0.19
3005.00	314	1077	6852	1052	5605	2468	14900	14586	97.9	0.19
3014.00	398	1199	7311	1036	5553	2092	15497	15099	97.4	0.19
3023.00	211	876	6667	1046	5546	2181	14346	14135	98.5	0.19
3032.00	246	1056	7709	1289	6568	2924	16868	16622	98.5	0.20
3041.00	398	1327	8422	1332	6457	2307	17936	17538	97.8	0.21
3050.00	450	1626	9151	1401	6555	2482	19183	18733	97.7	0.21
3059.00	386	1357	8799	1499	6791	2448	18832	18446	98.0	0.22
3068.00	564	1923	10921	1863	8043	3167	23314	22750	97.6	0.23
3077.00	395	1045	5848	995	4446	1724	12729	12334	96.9	0.22
3086.00	178	312	1828	358	1796	1331	4472	4294	96.0	0.20
3095.00	246	762	3946	656	3070	1751	8680	8434	97.2	0.21
3104.00	343	987	4390	646	2777	1071	9143	8800	96.3	0.23
3113.00	351	1195	5853	888	3980	2007	12267	11916	97.1	0.22
3122.00	630	1453	5420	763	3337	1686	11603	10973	94.6	0.23
3131.00	603	1682	4193	439	1835	581	8752	8149	93.1	0.24
3140.00	934	2646	6529	776	3098	1179	13983	13049	93.3	0.25
3149.00	479	1757	3933	420	1906	841	8495	8016	94.4	0.22
3158.00	664	1462	2496	258	1153	624	6033	5369	89.0	0.22
3167.00	181	543	2369	405	1999	1383	5497	5316	96.7	0.20
3176.00	157	260	1456	285	1458	1196	3616	3459	95.7	0.20
3185.00	142	435	2199	378	1819	1187	4973	4831	97.1	0.21

Table 1b: C1 to C7 hydrocarbons in CUTTINGS gas
(µl gas/kg rock)

Project: AREA 35/11
Well: NOCS 35/11-6
Depth unit of measure: m * Indicated values in ml gas/kg source rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 / nC4
3194.00	208	571	2394	429	2009	1429	5611	5403	96.3	0.21
3203.00	178	378	1310	262	1183	873	3311	3133	94.6	0.22
3212.00	405	799	1903	290	1388	757	4785	4380	91.5	0.21
3221.00	676	1196	1629	195	789	474	4485	3809	84.9	0.25
3230.00	433	1095	1446	150	546	188	3670	3237	88.2	0.27
3239.00	668	1517	2253	221	782	277	5441	4773	87.7	0.28
3257.00	178	681	2046	239	1187	651	4331	4153	95.9	0.20
3266.00	105	261	1433	225	1182	1606	3206	3101	96.7	0.19
3275.00	125	181	1456	266	1547	1318	3575	3450	96.5	0.17
3284.00	117	311	2052	417	2204	2112	5101	4984	97.7	0.19
3293.00	128	232	1749	356	2072	1759	4537	4409	97.2	0.17
3302.00	149	340	3400	822	4861	9858	9572	9423	98.4	0.17
3311.00	64	126	1118	337	1808	3824	3453	3389	98.2	0.19
3320.00	353	161	362	70	411	1438	1357	1004	74.0	0.17
3329.00	55	108	1270	342	1962	3995	3737	3682	98.5	0.17
3338.00	100	298	2271	488	2756	5334	5913	5813	98.3	0.18
3347.00	102	297	2468	556	3049	4202	6472	6370	98.4	0.18
3356.00	91	276	2849	687	3803	6908	7706	7615	98.8	0.18
3365.00	202	992	7289	1600	8301	14577	18384	18182	98.9	0.19
3374.00	211	1119	7732	1836	9133	17584	20031	19820	99.0	0.20
3383.00	323	1670	9447	1951	9204	10016	22595	22272	98.6	0.21
3392.00	305	1707	9513	1963	9477	11937	22965	22660	98.7	0.21
3401.00	371	2000	11674	2473	12455	21899	28973	28602	98.7	0.20

Table 1b: C1 to C7 hydrocarbons in CUTTINGS gas
(µl gas/kg rock)

Project: AREA 35/11
Well: NOCS 35/11-6
Depth unit of measure: m * Indicated values in ml gas/kg source rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 / nC4
3410.00	292	1645	9545	1925	9372	14745	22779	22487	98.7	0.21
3419.00	173	847	6028	1380	7044	9171	15472	15299	98.9	0.20
3428.00	211	895	6569	1647	8257	12360	17579	17368	98.8	0.20
3437.00	212	647	5220	1397	7115	14358	14591	14379	98.6	0.20
3446.00	142	381	2928	821	4186	7104	8458	8316	98.3	0.20
3455.00	179	498	4110	1049	5471	10697	11307	11128	98.4	0.19
3464.00	320	1451	7810	1434	6658	8728	17673	17353	98.2	0.22
3473.00	161	689	4096	745	3813	6807	9504	9343	98.3	0.20
3482.00	1057	4310	8705	867	3434	2843	18373	17316	94.3	0.25
3491.00	504	2223	4874	552	2196	2067	10349	9845	95.1	0.25
3500.00	155	935	3560	581	2761	6289	7992	7837	98.1	0.21
3509.00	107	357	1746	315	1542	3419	4067	3960	97.4	0.20
3518.00	1277	1948	1378	96	542	986	5241	3964	75.6	0.18
3527.00	1753	1954	1476	90	569	1444	5842	4089	70.0	0.16
3536.00	7431	5433	3118	154	665	523	16801	9370	55.8	0.23
3545.00	1668	1939	1697	110	528	890	5942	4274	71.9	0.21
3554.00	8046	7232	4276	251	893	873	20698	12652	61.1	0.28
3563.00	1222	3185	3104	228	737	682	8476	7254	85.6	0.31
3572.00	1178	2025	1937	147	657	983	5944	4766	80.2	0.22
3581.00	3841	3039	2364	186	679	754	10109	6268	62.0	0.27
3590.00	1513	1068	861	75	357	1007	3874	2361	60.9	0.21
3599.00	169	68	130	17	83	461	467	298	63.8	0.20
3617.00	176	123	171	21	148	698	639	463	72.5	0.14

Table 1b: C1 to C7 hydrocarbons in CUTTINGS gas
(µl gas/kg rock)

Project: AREA 35/11
Well: NOCS 35/11-6
Depth unit of measure: m * Indicated values in ml gas/kg source rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 / nC4
3626.00	242	32	86	15	129	581	504	262	52.0	0.12
3644.00	171	47	231	41	349	926	839	668	79.6	0.12
3653.00	156	55	121	18	109	634	459	303	66.0	0.17
3671.00	424	60	90	17	83	282	674	250	37.1	0.20
3680.00	348	96	324	37	351	677	1156	808	69.9	0.11
3698.00	201	31	60	14	89	625	395	194	49.1	0.16
3707.00	523	256	344	58	276	992	1457	934	64.1	0.21
3725.00	221	157	303	64	268	1367	1013	792	78.2	0.24
3734.00	121	95	475	187	809	3370	1687	1566	92.8	0.23
3752.00	210	406	820	320	1142	5758	2898	2688	92.8	0.28
3761.00	88	69	218	63	325	2674	763	675	88.5	0.19
3779.00	89	67	119	23	118	1202	416	327	78.6	0.19
3788.00	141	122	171	44	198	1464	676	535	79.1	0.22
3806.00	67	14	66	20	111	998	278	211	75.9	0.18
3815.00	73	49	166	48	223	1467	559	486	86.9	0.22
3833.00	184	399	606	68	385	1355	1642	1458	88.8	0.18
3842.00	108	201	326	68	311	2126	1014	906	89.4	0.22
3860.00	98	126	357	107	501	3294	1189	1091	91.8	0.21
3869.00	147	79	315	118	552	3614	1211	1064	87.9	0.21
3887.00	252	86	303	143	711	3854	1495	1243	83.1	0.20
3896.00	129	68	237	88	445	2823	967	838	86.7	0.20
3914.00	91	59	379	124	578	3178	1231	1140	92.6	0.21
3923.00	96	73	432	143	644	3535	1388	1292	93.1	0.22

Table 1b: C1 to C7 hydrocarbons in CUTTINGS gas
(µl gas/kg rock)

Project: AREA 35/11
Well: NOCS 35/11-6
Depth unit of measure: m * Indicated values in ml gas/kg source rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4/nC4
3941.00	84	30	408	252	1069	6387	1843	1759	95.4	0.24
3950.00	58	42	324	210	792	4428	1426	1368	95.9	0.27
3968.00	77	27	173	87	350	1958	714	637	89.2	0.25
3977.00	63	59	232	110	410	2342	874	811	92.8	0.27
3989.00	81	14	150	26	316	1000	587	506	86.2	0.08

Table 1c: C1 to C7 hydrocarbons in HEADSPACE and CUTTINGS gas
(μl gas/kg rock)

Project: AREA 35/11
Well: NOCS 35/11-6
Depth unit of measure: m * Indicated values in ml gas/kg source rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4/nC4
1000.00	2374	68	54	3	14	11	2513	139	5.5	0.21
1080.00	6428	36	7	2	3	4	6476	48	0.7	0.67
1160.00	29735	148	31	7	3	1	29924	189	0.6	2.33
1240.00	10094	46	11	2	2	1	10155	61	0.6	1.00
1320.00	17393	87	10	2	1	71	17493	100	0.6	2.00
1400.00	12314	156	24	23	9	5	12526	212	1.7	2.56
1480.00	11426	127	43	36	35	53	11667	241	2.1	1.03
1560.00	13786	140	15	10	4	1	13955	169	1.2	2.50
1640.00	20039	404	27	12	5	4	20487	448	2.2	2.40
1720.00	11584	444	73	18	8	2	12127	543	4.5	2.25
1800.00	7303	167	26	8	4	1	7508	205	2.7	2.00
1880.00	9719	188	37	8	5	6	9957	238	2.4	1.60
1960.00	806	55	30	9	7	10	907	101	11.1	1.29
2040.00	585	78	91	9	36	68	799	214	26.8	0.25
2120.00	1036	33	33	8	29	58	1139	103	9.0	0.28
2200.00	1419	228	694	69	329	199	2739	1320	48.2	0.21
2280.00	1416	50	195	33	239	150	1933	517	26.8	0.14
2360.00	3321	170	335	41	132	97	3999	678	17.0	0.31
2440.00	1670	111	201	62	152	93	2196	526	24.0	0.41
2520.00	3106	205	115	50	66	47	3542	436	12.3	0.76
2600.00	37	7	12	6	6	3	68	31	45.6	1.00
2618.00	6563	254	191	49	67	81	7124	561	7.9	0.73

Table 1c: C1 to C7 hydrocarbons in HEADSPACE and CUTTINGS gas
(μl gas/kg rock)

Project: AREA 35/11
Well: NOCS 35/11-6
Depth unit of measure: m * Indicated values in ml gas/kg source rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4/nC4
2636.00	3024	305	178	46	25	9	3578	554	15.5	1.84
2654.00	2490	228	144	41	39	71	2942	452	15.4	1.05
2672.00	3527	370	639	67	344	230	4947	1420	28.7	0.19
2690.00	2368	218	142	38	35	44	2801	433	15.5	1.09
2708.00	10683	3432	5273	640	1183	258	21211	10528	49.6	0.54
2726.00	6322	555	807	91	536	304	8311	1989	23.9	0.17
2744.00	3510	324	454	65	221	193	4574	1064	23.3	0.29
2762.00	3206	329	202	52	32	20	3821	615	16.1	1.63
2780.00	746	116	320	57	256	188	1495	749	50.1	0.22
2798.00	3346	593	648	114	77	14	4778	1432	30.0	1.48
2816.00	5469	1635	1877	232	495	213	9708	4239	43.7	0.47
2834.00	6042	1830	2285	271	564	151	10992	4950	45.0	0.48
2852.00	5193	1156	1521	199	503	247	8572	3379	39.4	0.40
2870.00	2208	267	557	79	316	166	3427	1219	35.6	0.25
2888.00	4044	796	1607	182	594	290	7223	3179	44.0	0.31
2906.00	12590	2235	5383	976	2694	989	23878	11288	47.3	0.36
2915.00	8594	1940	4568	831	3206	1743	19139	10545	55.1	0.26
2924.00	10626	3286	8029	1374	5086	2404	28401	17775	62.6	0.27
2933.00	10161	3741	9615	1667	6323	2581	31507	21346	67.8	0.26
2942.00	10546	3493	8762	1408	5786	2945	29995	19449	64.8	0.24
2951.00	9833	3123	8629	1414	6020	2930	29019	19186	66.1	0.23
2960.00	8212	2872	9676	1654	7599	3973	30013	21801	72.6	0.22

Table 1c: C1 to C7 hydrocarbons in HEADSPACE and CUTTINGS gas
(μl gas/kg rock)

Project: AREA 35/11
Well: NOCS 35/11-6
Depth unit of measure: m * Indicated values in ml gas/kg source rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4/nC4
2969.00	2889	1318	6291	1215	5936	3204	17649	14760	83.6	0.20
2978.00	8070	3436	11469	1717	8450	4096	33142	25072	75.7	0.20
2987.00	13817	5303	13047	1595	7762	3214	41524	27707	66.7	0.21
2996.00	9159	5120	89380	1664	8343	2993	113666	105*	91.9	0.20
3005.00	6730	3324	11177	1424	7276	3003	29931	23201	77.5	0.20
3014.00	9575	4666	14045	1602	8033	2885	37921	28346	74.8	0.20
3023.00	7136	3625	12188	1500	7605	2835	32054	24918	77.7	0.20
3032.00	6887	3700	13280	1766	8752	3679	34385	27498	80.0	0.20
3041.00	10227	5202	16021	2091	8944	2806	42485	32258	75.9	0.23
3050.00	6245	4005	13503	1819	7960	2816	33532	27287	81.4	0.23
3059.00	5540	4153	14380	2004	8783	2971	34860	29320	84.1	0.23
3068.00	4843	3647	14132	2186	9130	3792	33938	29095	85.7	0.24
3077.00	8399	3851	10825	1459	6099	2202	30633	22234	72.6	0.24
3086.00	2714	877	2718	448	2165	15787	8922	6208	69.6	0.21
3095.00	8065	3469	8491	1121	4664	2320	25810	17745	68.8	0.24
3104.00	14165	5213	10848	1369	4535	1516	36130	21965	60.8	0.30
3113.00	1199	1484	6305	941	4108	2054	14037	12838	91.5	0.23
3122.00	20857	7245	13185	1513	5630	2406	48430	27573	56.9	0.27
3131.00	10100	4331	6883	664	2525	825	24503	14403	58.8	0.26
3140.00	11210	5724	9215	998	3759	1382	30906	19696	63.7	0.27
3149.00	11980	5797	7453	740	2846	1176	28816	16836	58.4	0.26
3158.00	12154	4642	4815	446	1715	869	23772	11618	48.9	0.26

Table 1c: C1 to C7 hydrocarbons in HEADSPACE and CUTTINGS gas
(µl gas/kg rock)

Project: AREA 35/11
Well: NOCS 35/11-6
Depth unit of measure: m * Indicated values in ml gas/kg source rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4/nC4
3167.00	726	917	2977	476	2276	1621	7372	6646	90.2	0.21
3176.00	901	547	1943	339	1729	1469	5459	4558	83.5	0.20
3185.00	4019	2016	4519	658	2818	1748	14030	10011	71.4	0.23
3194.00	7245	2246	4247	649	2809	1993	17196	9951	57.9	0.23
3203.00	8790	2131	2469	351	1362	972	15103	6313	41.8	0.26
3212.00	14427	4143	3405	382	1617	805	23974	9547	39.8	0.24
3221.00	12951	3872	3274	296	1201	617	21594	8643	40.0	0.25
3230.00	13010	4509	3207	269	852	253	21847	8837	40.5	0.32
3239.00	11637	4618	4188	352	1141	374	21936	10299	47.0	0.31
3257.00	7978	4459	5617	523	2133	1073	20710	12732	61.5	0.25
3266.00	5101	3289	5466	572	2298	2010	16726	11625	69.5	0.25
3275.00	4863	3107	7456	931	4176	2607	20533	15670	76.3	0.22
3284.00	4242	2722	7012	964	4311	3054	19251	15009	78.0	0.22
3293.00	7427	3693	9380	1264	5779	3665	27543	20116	73.0	0.22
3302.00	7255	5035	13630	1938	9730	14758	37588	30333	80.7	0.20
3311.00	1432	828	2803	747	3499	5710	9309	7877	84.6	0.21
3320.00	1902	792	1834	303	1353	2854	6184	4282	69.2	0.22
3329.00	2168	1430	4535	806	3824	6143	12763	10595	83.0	0.21
3338.00	2910	1956	5618	875	4339	6447	15698	12788	81.5	0.20
3347.00	2782	1867	5658	929	4551	6109	15787	13005	82.4	0.20
3356.00	1907	1872	7173	1272	6203	9431	18427	16520	89.7	0.21
3365.00	6084	5478	15842	2549	12118	17500	42071	35987	85.5	0.21

Table 1c: C1 to C7 hydrocarbons in HEADSPACE and CUTTINGS gas
(µl gas/kg rock)

Project: AREA 35/11
Well: NOCS 35/11-6
Depth unit of measure: m * Indicated values in ml gas/kg source rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 / nC4
3374.00	5269	4978	14581	2587	12058	19683	39473	34204	86.7	0.21
3383.00	7222	6737	16912	2637	12035	12900	45543	38321	84.1	0.22
3392.00	7168	6654	16535	2585	12142	13969	45084	37916	84.1	0.21
3401.00	8191	7084	19558	3273	15738	25180	53844	45653	84.8	0.21
3410.00	7383	7693	18841	2827	12811	17639	49555	42172	85.1	0.22
3419.00	4463	5130	13993	2229	10402	12085	36217	31754	87.7	0.21
3428.00	3839	4616	13634	2484	11461	15604	36034	32195	89.4	0.22
3437.00	2961	3315	11001	2082	9891	16552	29250	26289	89.9	0.21
3446.00	2059	1838	6335	1341	5838	8180	17411	15352	88.2	0.23
3455.00	2754	3008	9374	1713	8001	12605	24850	22096	88.9	0.21
3464.00	4557	4511	12707	1998	8637	10515	32410	27853	85.9	0.23
3473.00	3485	3257	8002	1125	5120	7801	20989	17504	83.4	0.22
3482.00	11729	8367	11556	1100	4086	3291	36838	25109	68.2	0.27
3491.00	5203	4441	6743	710	2634	2391	19731	14528	73.6	0.27
3500.00	4749	3883	6787	896	3729	7048	20044	15295	76.3	0.24
3509.00	1300	924	2578	408	1850	3889	7060	5760	81.6	0.22
3518.00	10931	3556	2479	217	922	1411	18105	7174	39.6	0.24
3527.00	20224	4268	2460	163	805	1702	27920	7696	27.6	0.20
3536.00	36385	9204	4482	236	861	740	51168	14783	28.9	0.27
3545.00	18630	5279	3095	207	745	1067	27956	9326	33.4	0.28
3554.00	36820	10979	5470	318	1042	1003	54629	17809	32.6	0.31
3563.00	45017	14994	8469	577	1530	1142	70587	25570	36.2	0.38

Table 1c: C1 to C7 hydrocarbons in HEADSPACE and CUTTINGS gas
(µl gas/kg rock)

Project: AREA 35/11
Well: NOCS 35/11-6
Depth unit of measure: m * Indicated values in ml gas/kg source rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 / nC4
3572.00	19349	6104	4197	323	1205	1547	31178	11829	37.9	0.27
3581.00	40027	10250	5293	391	1090	989	57051	17024	29.8	0.36
3590.00	8223	2513	1786	160	565	1358	13247	5024	37.9	0.28
3599.00	3965	1333	1132	116	354	1052	6900	2935	42.5	0.33
3617.00	3120	940	976	99	492	1164	5627	2507	44.6	0.20
3626.00	1511	404	519	67	389	1423	2890	1379	47.7	0.17
3644.00	1468	376	654	85	654	1429	3237	1769	54.7	0.13
3653.00	1292	628	1847	149	1116	1708	5032	3740	74.3	0.13
3671.00	1474	355	327	49	158	380	2363	889	37.6	0.31
3680.00	1463	500	986	88	673	1192	3710	2247	60.6	0.13
3698.00	1056	371	303	38	183	872	1951	895	45.9	0.21
3707.00	1295	479	590	95	445	1332	2904	1609	55.4	0.21
3725.00	4269	2228	1812	319	823	2582	9451	5182	54.8	0.39
3734.00	1685	875	1855	530	1748	5429	6693	5008	74.8	0.30
3752.00	5883	2647	2567	721	2212	8849	14030	8147	58.1	0.33
3761.00	1401	1021	1622	419	1327	5408	5790	4389	75.8	0.32
3779.00	2322	902	663	113	335	1789	4335	2013	46.4	0.34
3788.00	1276	749	724	147	456	2253	3352	2076	61.9	0.32
3806.00	1430	781	802	135	630	2401	3778	2348	62.2	0.21
3815.00	1490	797	861	174	549	2091	3871	2381	61.5	0.32
3833.00	4258	2081	2082	219	831	2088	9471	5213	55.0	0.26
3842.00	2157	1016	1077	191	651	2783	5092	2935	57.6	0.29

Table 1c: C1 to C7 hydrocarbons in HEADSPACE and CUTTINGS gas
(μl gas/kg rock)

Project: AREA 35/11
Well: NOCS 35/11-6
Depth unit of measure: m * Indicated values in ml gas/kg source rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4/nC4
3860.00	1228	1045	1828	443	1427	5671	5971	4743	79.4	0.31
3869.00	792	701	1469	396	1343	5582	4701	3909	83.2	0.29
3887.00	1089	655	2004	596	2062	32781	6406	5317	83.0	0.29
3896.00	1423	673	1662	473	1507	5162	5738	4315	75.2	0.31
3914.00	600	631	1870	418	1488	4915	5007	4407	88.0	0.28
3923.00	709	672	1973	457	1536	5289	5347	4638	86.7	0.30
3941.00	547	454	2012	735	2445	9308	6193	5646	91.2	0.30
3950.00	989	537	1322	477	1541	6125	4866	3877	79.7	0.31
3968.00	348	157	386	139	491	2263	1521	1173	77.1	0.28
3977.00	298	200	485	184	599	2849	1766	1468	83.1	0.31
3989.00	718	576	2108	198	1478	8815	5078	4360	85.9	0.13

Table 2 : Lithology description for well NOCS 35/11-6

Depth unit of measure: m

Depth Int	Cvd	Type TOC%	%	Grp Frm Age Lithology description	Trb	Sample
1000.00						0057
			60	Sh/Clst: lt or to pl y brn, slt		0057-1L
			25	S/Sst : w to m y brn, crs, l		0057-2L
			10	Sh/Clst: brn gy to dsk y gn to gn blk, slt, glauc, cngl		0057-3L
			5	Cont : prp		0057-4L
1080.00						0058
		1.79	100	Sh/Clst: lt or to lt brn gy, slt, mic		0058-1L
			tr	Cont : prp		0058-2L
1160.00						0059
			100	Sh/Clst: lt or to lt brn gy, slt, mic		0059-1L
			tr	Cont : prp		0059-2L
			tr	Other : lt bl gn to dsk y gn, fos, glauc		0059-3L
1240.00						0060
			80	Sh/Clst: lt or to lt ol gy, pyr, slt, mic, glauc		0060-1L
			10	Other : dsk y gn, fos, glauc, l		0060-2L
			10	Cont : prp		0060-3L
			tr	S/Sst : w, crs, l		0060-4L
			tr	Cont : w, bar		0060-5L
1320.00						0061
		2.04	70	Sh/Clst: lt or to brn gy to lt ol gy, pyr, slt, mic, glauc		0061-1L
			10	Other : dsk y gn, fos, glauc, l		0061-2L
			10	S/Sst : w, crs, l		0061-3L
			5	Other : brn gy, sil		0061-4L
			5	Cont : prp		0061-5L

Table 2 : Lithology description for well NOCS 35/11-6

Depth unit of measure: m

Depth		Type		Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description				
1400.00								0062
			90	Sh/Clst:		brn gy to lt or, pyr, slt, mic, glauc		0062-1L
			5	Cont	:	prp		0062-2L
			5	Ca	:	dsk brn, dol		0062-3L
			tr	Other	:	dsk y gn, fos, glauc, l		0062-4L
			tr	S/Sst	:	lt gy, crs		0062-5L
1480.00								0063
			75	Sh/Clst:		lt gy to lt gn gy to pl bl gn		0063-1L
			15	Sh/Clst:		brn gy to lt or, pyr, slt, mic, glauc		0063-2L
			10	Sh/Clst:		m brn to red brn		0063-3L
1560.00								0064
			85	Sh/Clst:		lt gy to lt gn gy to pl bl gn		0064-1L
			15	Sh/Clst:		brn gy to lt or, pyr, slt, mic, glauc		0064-2L
			tr	Sh/Clst:		m brn to red brn		0064-3L
			tr	S/Sst	:	w, crs		0064-4L
1640.00								0065
		0.33	70	Sh/Clst:		lt gy to lt gn gy to pl bl gn		0065-1L
			15	Sh/Clst:		brn gy to lt or, pyr, slt, mic, glauc		0065-2L
			10	Sh/Clst:		m brn to red brn		0065-3L
			5	Other	:	prp		0065-4L
1720.00								0066
			55	Sh/Clst:		lt gy to lt gn gy to pl bl gn		0066-1L
			25	Sh/Clst:		m gy to brn gy, pyr, slt, mic, glauc		0066-2L
			10	Sh/Clst:		m brn to red brn, mic		0066-3L
			5	Other	:	prp		0066-4L
			5	S/Sst	:	w, crs		0066-5L

Table 2 : Lithology description for well NOCS 35/11-6

Depth unit of measure: m

Depth Int	Cvd	Type TOC%	%	Grp Frm Age Lithology description	Trb	Sample
1800.00						0067
			55	Sh/Clst: lt gy to lt gn gy to pl bl gn		0067-1L
		2.11	30	Sh/Clst: m gy to brn gy, pyr, slt, mic, glauc		0067-2L
			10	Sh/Clst: m brn to red brn, mic		0067-3L
			5	Other : prp		0067-4L
			tr	S/Sst : w, crs		0067-5L
1880.00						0068
			65	Sh/Clst: lt gy to lt gn gy to pl bl gn		0068-1L
			25	Sh/Clst: m gy to brn gy, pyr, slt, mic, glauc		0068-2L
			5	Sh/Clst: m brn to red brn, mic		0068-3L
			5	Other : prp		0068-4L
			tr	S/Sst : w, crs		0068-5L
1960.00						0069
			85	Sh/Clst: lt gy to m gy, slt		0069-1L
			15	Cont : prp		0069-2L
2000.00	swc					0001
		0.66	100	Sh/Clst: drk gy, calc, slt, sft		0001-1L
2029.00	swc					0002
			100	Sh/Clst: gy blk, calc, slt, sft		0002-1L
2040.00						0070
			60	Sh/Clst: m gy to drk gy, slt		0070-1L
			35	Other : lt gy w, slt, f, sft		0070-2L
			5	Cont : prp		0070-3L

Table 2 : Lithology description for well NOCS 35/11-6

Depth unit of measure: m

Depth Int	Cvd	Type TOC%	%	Grp Frm Age Lithology description	Trb	Sample
2054.00		swc				0003
			100	Sh/Clst: gy blk, calc, slt		0003-1L
2077.00		swc				0004
			100	Sh/Clst: drk gn gy to gy blk, calc, slt, lam		0004-1L
2097.00		swc				0005
	0.25		100	Sh/Clst: drk brn to lt brn gn, calc, slt, glauc		0005-1L
2120.00						0071
			60	Sh/Clst: lt gy to m gy to drk gy, calc, slt		0071-1L
			25	Sh/Clst: red brn, slt, fe		0071-2L
			15	Cont : prp		0071-3L
			tr	Ca : w		0071-4L
2127.00		swc				0006
			100	Sh/Clst: drk gy, calc, slt		0006-1L
2152.00		swc				0007
			100	Sh/Clst: drk gy, calc, pyr, slt		0007-1L
2180.00		swc				0008
			100	Sh/Clst: gy blk, calc, slt		0008-1L

Table 2 : Lithology description for well NOCS 35/11-6

Depth unit of measure: m

Depth Int	Cvd	Type TOC%	%	Grp Frm Age Lithology description	Trb	Sample
2200.00						0072
			65	Sh/Clst: m gy to drk gy, calc, pyr, slt		0072-1L
			35	Cont : prp		0072-2L
2205.00		swc				0009
		0.58	95	Sh/Clst: gy blk, pyr, slt		0009-1L
			5	Cont : m brn, dd		0009-2L
2227.00		swc				0010
			100	Sh/Clst: gy blk, slt		0010-1L
2256.50		swc				0011
			95	Sh/Clst: gy blk, slt		0011-1L
			5	Cont : brn gy, dd		0011-2L
2280.00						0073
			80	Sh/Clst: m gy to drk gy, calc, pyr, slt		0073-1L
			15	Cont : prp		0073-2L
			5	Other : brn gy, sil		0073-3L
2286.50		swc				0012
			100	Sh/Clst: lt brn gn to m gy, slt, glauc		0012-1L
			tr	Cont : brn gy, dd		0012-2L
2313.00		swc				0013
		0.53	95	Sh/Clst: gy blk, calc, slt		0013-1L
			5	Cont : brn gy, dd		0013-2L

Table 2 : Lithology description for well NOCS 35/11-6

Depth unit of measure: m

Depth Int	Cvd	Type TOC%	%	Grp Frm Age Lithology description	Trb	Sample
2340.00		swc				0014
			100	Sh/Clst: drk gy, calc, slt		0014-1L
2360.00						0074
			65	Sh/Clst: m gy to drk gy, calc, pyr, slt		0074-1L
			30	Cont : prp		0074-2L
			5	Ca : lt gy w, f		0074-3L
2373.00		swc				0015
			100	Sh/Clst: gy blk, pyr, slt, mic		0015-1L
2405.00		swc				0016
		0.89	100	Sh/Clst: gy blk, calc, slt, mic		0016-1L
2424.50		swc				0017
			95	Sh/Clst: drk gy to gy blk, calc, slt, mic		0017-1L
			5	Cont : brn gy, dd		0017-2L
2440.00						0075
			75	Sh/Clst: m gy to drk gy, pyr, slt		0075-1L
			25	Cont : prp		0075-2L
			tr	Sltst : lt gy		0075-3L
2451.50		swc				0018
			100	Sh/Clst: gy blk, slt, mic		0018-1L
			tr	Cont : brn gy, dd		0018-2L

Table 2 : Lithology description for well NOCS 35/11-6

Depth unit of measure: m

Depth	Type		Grp	Frm	Age	Trb	Sample
Int Cvd	TOC%	%	Lithology description				
2480.00	swc						0019
	0.74	100	Sh/Clst: gy blk, pyr, slt				0019-1L
		tr	Cont : brn gy, dd				0019-2L
2520.00							0076
		65	Sh/Clst: m gy to drk gy, pyr, slt				0076-1L
		25	Cont : prp				0076-2L
		10	Sltst : lt gy w to lt gy				0076-3L
2532.50	swc						0020
		100	Sh/Clst: gy blk, slt				0020-1L
		tr	Cont : brn gy, dd				0020-2L
2562.50	swc						0021
		100	Sh/Clst: drk gy to gy blk, pyr, slt				0021-1L
		tr	Cont : brn gy, dd				0021-2L
2600.00							0077
		75	Sh/Clst: m gy to drk gy, pyr, slt				0077-1L
		15	Cont : prp				0077-2L
		10	S/Sst : lt gy w to lt gy, f				0077-3L
2618.00							0078
		90	Sh/Clst: m gy to drk gy, pyr, slt, st				0078-1L
		10	Cont : prp				0078-2L

Table 2 : Lithology description for well NOCS 35/11-6

Depth unit of measure: m

Depth Int	Depth Cvd	Type TOC%	%	Grp	Frm	Age	Trb	Sample	Lithology description
2623.50		swc						0022	
		0.83	100					0022-1L	Sh/Clst: gy blk, slt, mic
			tr					0022-2L	Cont : brn gy, dd
2636.00								0079	
			80					0079-1L	Sh/Clst: m gy to drk gy, pyr, slt, st
			20					0079-2L	Cont : prp
			tr					0079-3L	S/Sst : brn gy, f
2650.00		swc						0023	
			100					0023-1L	Sh/Clst: gy blk, slt, mic
			tr					0023-2L	Cont : brn gy, dd
2654.00								0080	
			95					0080-1L	Sh/Clst: m gy to drk gy, pyr, slt, st
			5					0080-2L	Cont : prp
			tr					0080-3L	S/Sst : brn gy to lt brn gy, f
			tr					0080-4L	Other : gy brn, sil
2672.00								0081	
			70					0081-1L	Sh/Clst: m gy to drk gy, pyr, slt, st
			15					0081-2L	Sltst : m gy to lt gy w, calc, glauc
			10					0081-3L	Cont : prp
			5					0081-4L	Other : gy brn, sil
2676.00		swc						0024	
			100					0024-1L	Sh/Clst: gy blk, slt, mic
			tr					0024-2L	Cont : brn gy, dd

Table 2 : Lithology description for well NOCS 35/11-6

Depth unit of measure: m

Depth Int	Cvd	Type TOC%	%	Grp Frm Age Lithology description	Trb	Sample
2690.00						0082
			75	Sh/Clst: m gy to drk gy, pyr, slt, st		0082-1L
			15	S/Sst : m gy to lt gy w, calc, glauc, f		0082-2L
			5	Cont : prp		0082-3L
			5	Ca : lt gy w, cly, f		0082-4L
2708.00						0083
			60	Ca : w to lt gy w, glauc, f		0083-1L
			30	Sh/Clst: lt gy to m gy to drk gy, pyr, slt, glauc		0083-2L
			10	Cont : prp		0083-3L
2711.00	swc					0025
	0.99		100	Sh/Clst: drk gy to gy blk, slt, mic		0025-1L
			tr	Cont : brn gy, dd		0025-2L
2726.00						0084
			80	Sh/Clst: m gy to drk gy, calc, pyr, slt, glauc, st		0084-1L
			10	Ca : w to lt gy w to brn gy, glauc, f		0084-2L
			10	Cont : prp		0084-3L
2733.00	swc					0026
			100	Sh/Clst: drk gy, calc, slt		0026-1L
			tr	Cont : brn gy, dd		0026-2L
2744.00						0085
			70	Sh/Clst: m gy to drk gy, calc, pyr, slt, glauc		0085-1L
			20	Ca : w to lt gy w to brn gy, glauc, f		0085-2L
			10	Cont : prp		0085-3L

Table 2 : Lithology description for well NOCS 35/11-6

Depth unit of measure: m

Depth Int	Cvd	Type TOC%	%	Grp Frm Age / Lithology description	Trb	Sample
2756.50		swc				0027
			95	Sh/Clst: dsk y gn to pl y gn to m gy, calc, glauc		0027-1L
			5	Cont : brn gy, dd		0027-2L
2762.00						0086
			45	Sh/Clst: m gy to drk gy, calc, pyr, slt, glauc		0086-1L
			40	Ca : w to lt gy w to brn gy, glauc, f		0086-2L
			15	Cont : prp		0086-3L
2768.00		swc				0028
			95	Sh/Clst: drk gy to dsk y gn to pl y gn to lt gy, calc, slt, mic, glauc		0028-1L
			5	Cont : brn gy, dd		0028-2L
2775.00		swc				0029
			95	Sh/Clst: gy blk to lt gy pi, calc, slt, mic		0029-1L
			5	Cont : brn gy, dd		0029-2L
2780.00						0087
			75	Sh/Clst: m gy to drk gy, calc, pyr, slt, glauc		0087-1L
			15	Ca : lt gy w to lt gy, glauc, f		0087-2L
			10	Cont : prp		0087-3L

Table 2 : Lithology description for well NOCS 35/11-6

Depth unit of measure: m

Depth	Type		Grp	Frm	Age	Trb	Sample
Int Cvd	TOC%	%	Lithology description				
2798.00	swc						0030
		100	Sh/Clst: red brn, slt, mic, fe				0030-1L
2798.00							0088
		70	Sh/Clst: m gy to drk gy, calc, pyr, slt, glauc				0088-1L
		15	Ca : lt gy w to lt gy, glauc, f				0088-2L
		15	Cont : prp				0088-3L
		tr	Sh/Clst: drk red brn, slt				0088-4L
2802.00	swc						0031
	3.26	100	Sh/Clst: gy blk, calc, slt, mic				0031-1L
2809.50	swc						0032
		100	Sh/Clst: gy blk, calc, slt				0032-1L
2816.00	swc						0033
		100	Sh/Clst: drk gy to gy blk, calc, slt, mic				0033-1L
2816.00							0089
		65	Sh/Clst: m gy to drk gy to gy blk, calc, pyr, slt, st				0089-1L
		30	Sh/Clst: drk red brn to red brn, slt, fe				0089-2L
		5	Ca : w, glauc, f				0089-3L

Table 2 : Lithology description for well NOCS 35/11-6

Depth unit of measure: m

Depth Int	Depth Cvd	Type TOC%	%	Grp Frm Age Lithology description	Trb	Sample
2821.50		swc				0034
			95	Sh/Clst: drk gy to gy blk, calc, slt, mic		0034-1L
			5	Cont : brn gy, dd		0034-2L
2834.00						0090
			50	Sh/Clst: gy blk to m gy to drk gy, calc, pyr, slt, st		0090-1L
			30	Sh/Clst: drk red brn to red brn, slt, fe		0090-2L
			15	Ca : lt gy w, cly, f		0090-3L
			5	Cont : prp		0090-4L
2840.00		swc				0036
			95	Sh/Clst: drk gy to gy blk, slt, mic		0036-1L
			5	Cont : brn gy, dd		0036-2L
2852.00						0091
			35	Sh/Clst: gy blk to m gy to drk gy, calc, pyr, slt, st		0091-1L
			30	Sh/Clst: drk red brn to red brn, slt, fe		0091-2L
			30	Ca : w to lt gy w, f		0091-3L
			5	Cont : prp		0091-4L
2865.00		swc				0035
	0.75		95	Sh/Clst: gy blk, calc, slt, mic		0035-1L
			5	Cont : brn gy, dd		0035-2L
2870.00						0092
			70	Sh/Clst: gy blk to m gy to drk gy, calc, pyr, slt, st		0092-1L
			10	Ca : w to lt gy w, f		0092-2L
			10	Cont : prp		0092-3L
			5	Sltst : m gy		0092-4L
			5	Sh/Clst: red brn, slt		0092-5L

Table 2 : Lithology description for well NOCS 35/11-6

Depth unit of measure: m

Depth	Type		Grp	Frm	Age	Trb	Sample
Int Cvd	TOC%	%	Lithology description				
2888.00							0093
		65	Sh/Clst:	gy blk to m gy to drk gy, calc, pyr, slt, st			0093-1L
		20	Cont	: prp			0093-2L
		10	Ca	: lt gy w to lt gy, glauc, f			0093-3L
		5	Sh/Clst:	red brn, slt			0093-4L
2891.00 swc							0037
		90	Sh/Clst:	m gy to drk gy, slt, mic, hd			0037-1L
		10	Cont	: brn gy, dd			0037-2L
2898.50 swc							0038
	0.48	90	Sh/Clst:	gy blk, slt, hd			0038-1L
		10	Cont	: lt brn gy, dd			0038-2L
2905.00 swc							0039
	2.79	95	Sh/Clst:	gy blk, slt, hd			0039-1L
		5	Cont	: lt brn gy, dd			0039-2L
2906.00							0094
		65	Sh/Clst:	gy blk to m gy to drk gy, calc, pyr, slt, st			0094-1L
		20	Ca	: lt gy w to lt gy, glauc, f			0094-2L
		10	Sh/Clst:	red brn, slt			0094-3L
		5	Cont	: prp			0094-4L
2915.00 swc							0040
		95	Sh/Clst:	gy blk, slt, hd			0040-1L
		5	Cont	: lt brn gy, dd			0040-2L

Table 2 : Lithology description for well NOCS 35/11-6

Depth unit of measure: m

Depth Int	Cvd	Type TOC%	%	Grp Frm Age Lithology description	Trb	Sample
2915.00						0095
			75	Sh/Clst: gy blk to drk gy, pyr, slt, st		0095-1L
			10	Ca : lt gy w to lt gy, glauc, f		0095-2L
			10	Cont : prp		0095-3L
			5	Sh/Clst: drk brn, slt		0095-4L
2924.00						0096
			80	Sh/Clst: gy blk, pyr, slt, st		0096-1L
			10	Ca : lt gy w to lt gy, glauc, f		0096-2L
			5	Cont : prp		0096-3L
			5	Sh/Clst: drk brn, slt		0096-4L
2933.00						0097
			90	Sh/Clst: gy blk, pyr, slt, st		0097-1L
			5	Ca : lt gy w to lt gy, glauc, f		0097-2L
			5	Cont : prp		0097-3L
			tr	Sh/Clst: drk brn, slt		0097-4L
2938.50	swc					0041
		4.04	100	Sh/Clst: gy blk to blk, slt, mic, hd		0041-1L
			tr	Cont : lt brn gy, dd		0041-2L
2942.00						0098
			90	Sh/Clst: gy blk to drk gy, pyr, slt, st		0098-1L
			5	Ca : lt gy w to lt gy, glauc, f		0098-2L
			5	Cont : prp		0098-3L
			tr	Sh/Clst: drk brn, slt		0098-4L

Table 2 : Lithology description for well NOCS 35/11-6

Depth unit of measure: m

Depth	Type		Grp	Frm	Age	Trb	Sample
Int Cvd	TOC%	%	Lithology description				
2951.00							0099
		90	Sh/Clst:	gy blk to drk gy, pyr, slt, st			0099-1L
		5	Ca	: lt gy w to lt gy, glauc, f			0099-2L
		5	Cont	: prp			0099-3L
		tr	Sltst	: m gy			0099-4L
		tr	Sh/Clst:	drk brn, slt, fe			0099-5L
2960.00	swc						0042
4.12		100	Sh/Clst:	gy blk to drk y brn, slt, mic, hd			0042-1L
		tr	Cont	: lt brn gy, dd			0042-2L
2960.00							0100
		90	Sh/Clst:	gy blk to drk gy, pyr, slt, st			0100-1L
		5	Ca	: lt gy w to lt gy, glauc, f			0100-2L
		5	Cont	: prp			0100-3L
2969.00							0101
		95	Sh/Clst:	gy blk to drk gy, pyr, slt, st			0101-1L
		5	Ca	: lt gy w to lt gy, glauc, f			0101-2L
		tr	Cont	: prp			0101-3L
		tr	Sh/Clst:	drk red brn, slt, fe			0101-4L
2978.00							0102
		95	Sh/Clst:	gy blk to drk gy, pyr, slt, st			0102-1L
		5	Cont	: prp			0102-2L
2986.00	swc						0043
		100	Sh/Clst:	blk, slt, mic, hd			0043-1L
		tr	Cont	: lt brn gy, dd			0043-2L

Table 2 : Lithology description for well NOCS 35/11-6

Depth unit of measure: m

Depth Int	Cvd	Type TOC%	%	Grp Frm Age Lithology description	Trb	Sample
2987.00						0103
			100	Sh/Clst: gy blk to drk gy, pyr, slt, st		0103-1L
			tr	Cont : prp		0103-2L
2996.00						0104
		4.12	100	Sh/Clst: gy blk to drk gy, pyr, slt, st		0104-1L
			tr	Cont : prp		0104-2L
			tr	Marl : lt gy		0104-3L
3005.00						0105
			95	Sh/Clst: gy blk to drk gy, pyr, slt, st		0105-1L
			5	Cont : prp		0105-2L
			tr	Marl : lt gy		0105-3L
3012.00	swc					0044
		3.28	100	Sh/Clst: blk, slt, mic		0044-1L
			tr	Cont : lt brn gy, dd		0044-2L
3014.00						0106
			95	Sh/Clst: gy blk to drk gy, pyr, slt, st		0106-1L
			5	Cont : prp		0106-2L
			tr	Marl : lt gy		0106-3L
3023.00						0107
			100	Sh/Clst: gy blk to drk gy, pyr, slt, st		0107-1L
			tr	Cont : prp		0107-2L

Table 2 : Lithology description for well NOCS 35/11-6

Depth unit of measure: m

Depth	Type		Grp	Frm	Age	Trb	Sample
Int Cvd	TOC%	%	Lithology description				
3032.00							0108
		100	Sh/Clst: gy blk to drk gy, pyr, slt, st				0108-1L
		tr	Cont : prp				0108-2L
3038.50	swc						0045
		100	Sh/Clst: gy blk to blk, pyr, slt, mic				0045-1L
		tr	Cont : lt brn gy, dd				0045-2L
3041.00							0109
	4.15	95	Sh/Clst: gy blk to drk gy, pyr, slt, st				0109-1L
		5	Cont : prp				0109-2L
		tr	Sh/Clst: drk red brn, slt, fe				0109-3L
3050.00							0110
		100	Sh/Clst: gy blk to drk gy, pyr, slt, st				0110-1L
		tr	Cont : prp				0110-2L
3055.00	swc						0046
	4.51	100	Sh/Clst: gy blk, pyr, slt, mic				0046-1L
		tr	Cont : lt brn gy, dd				0046-2L
3059.00							0111
		95	Sh/Clst: gy blk to drk gy, pyr, slt, st				0111-1L
		5	Cont : prp				0111-2L

Table 2 : Lithology description for well NOCS 35/11-6

Depth unit of measure: m

Depth	Type		Grp	Frm	Age	Trb	Sample
Int Cvd	TOC%	%	Lithology description				
3062.50	swc						0047
		100	Sh/Clst: gy blk, pyr, slt, mic				0047-1L
		tr	Cont : lt brn gy, dd				0047-2L
3068.00							0112
		95	Sh/Clst: gy blk to drk gy, pyr, slt, st				0112-1L
		5	Cont : prp				0112-2L
3077.00							0113
		85	Sh/Clst: gy blk to drk gy to m gy, pyr, slt, st				0113-1L
		10	Cont : prp				0113-2L
		5	Sh/Clst: drk red brn, slt, fe				0113-3L
		tr	Ca : lt gy w, f				0113-4L
3086.00							0114
		50	Sh/Clst: gy blk to drk gy, pyr, slt, st				0114-1L
		40	Sh/Clst: lt gy to m gy to lt gn gy, slt				0114-2L
		5	Cont : prp				0114-3L
		5	Sh/Clst: drk red brn, slt, fe				0114-4L
3093.00	swc						0048
	3.85	100	Sh/Clst: gy blk, pyr, slt, mic				0048-1L
		tr	Cont : lt brn gy, dd				0048-2L
3095.00							0115
		70	Sh/Clst: gy blk to dsk y brn, pyr, slt, st				0115-1L
		20	Sh/Clst: lt gy to m gy to lt gn gy, slt				0115-2L
		5	Cont : prp				0115-3L
		5	Sh/Clst: drk red brn, slt, fe				0115-4L

Table 2 : Lithology description for well NOCS 35/11-6

Depth unit of measure: m

Depth	Type		Grp	Frm	Age	Trb	Sample
Int Cvd	TOC%	%	Lithology description				
3104.00							0116
		80	Sh/Clst:	gy blk to dsk y brn, pyr, slt, st			0116-1L
		10	Sh/Clst:	lt gy to m gy to pl pu, slt			0116-2L
		5	Cont :	prp			0116-3L
		5	Sh/Clst:	drk red brn, slt, fe			0116-4L
3113.00							0117
		90	Sh/Clst:	gy blk to dsk y brn, pyr, slt, st			0117-1L
		5	Sh/Clst:	lt gy to m gy to pl pu, slt			0117-2L
		5	Cont :	prp			0117-3L
3115.00	swc						0049
	4.23	100	Sh/Clst:	gy blk, pyr, slt, mic			0049-1L
		tr	Cont :	lt brn gy, dd			0049-2L
3122.00							0118
		80	Sh/Clst:	gy blk to dsk y brn, pyr, slt, st, trbofgs			0118-1L
		10	Sh/Clst:	lt gy to m gy to pl pu, slt			0118-2L
		5	Cont :	prp			0118-3L
		5	Sltst :	lt gy w			0118-4L
3131.00							0119
	4.63	90	Sh/Clst:	gy blk to m gy, calc, pyr, slt, st, trbofgs			0119-1L
		10	Cont :	prp			0119-2L
		tr	Ca :	w, f, trbofgs			0119-3L

Table 2 : Lithology description for well NOCS 35/11-6

Depth unit of measure: m

Depth	Type		Grp	Frm	Age	Trb	Sample
Int Cvd	TOC%	%	Lithology description				
3133.00	swc						0050
		95	Sh/Clst:		gy blk, pyr, slt, mic		0050-1L
		5	Cont	:	lt brn gy, dd		0050-2L
3140.00							0120
		95	Sh/Clst:		gy blk to m gy, calc, pyr, slt, st, trbofgs		0120-1L
		5	Cont	:	prp		0120-2L
		tr	Sh/Clst:		lt gy to lt gn gy, slt		0120-3L
3149.00							0121
		80	Sh/Clst:		gy blk to lt gy w, calc, pyr, slt, st, trbofgs		0121-1L
		15	Cont	:	prp		0121-2L
		5	Sh/Clst:		m gy, slt		0121-3L
3154.00	swc						0051
	2.50	100	Sltst	:	drk gy to gy blk, pyr, mic, hd		0051-1L
		tr	Cont	:	lt brn gy, dd		0051-2L
3158.00							0122
		80	Sltst	:	drk gy to lt gy, mic		0122-1L
		15	Sh/Clst:		gy blk, slt		0122-2L
		5	Cont	:	prp		0122-3L
3167.00							0123
	1.24	40	S/Sst	:	lt gy w to drk gy, f, crs		0123-1L
		25	Sh/Clst:		lt gy to m gy, slt		0123-2L
		20	Cont	:	prp		0123-3L
		10	Sh/Clst:		gy blk to drk gy, slt		0123-4L
		5	Sh/Clst:		m brn, slt, trbofgs		0123-5L

Table 2 : Lithology description for well NOCS 35/11-6

Depth unit of measure: m

Depth Int	Cvd	Type TOC%	%	Grp Frm Age Lithology description	Trb	Sample
3176.00						0124
			35	S/Sst : lt gy w to drk gy, f, crs		0124-1L
			25	Sh/Clst: lt gy to m gy, slt		0124-2L
			20	Cont : prp		0124-3L
			15	Sh/Clst: gy blk to drk gy, slt		0124-4L
			5	Sh/Clst: m brn, slt, trbofgs		0124-5L
3184.80	ccp					0233
			100	S/Sst : w to lt gy to drk gy, calc, f, crs, hd, kln		0233-1L
3185.00						0125
		0.07	40	S/Sst : w, f, crs, hd		0125-1L
			25	Sh/Clst: m gy to lt gy, calc, pyr, slt		0125-2L
			20	Sh/Clst: gy blk, slt		0125-3L
			15	Cont : prp		0125-4L
3194.00						0126
			35	S/Sst : w, f, crs, hd		0126-1L
			25	Sh/Clst: m gy to lt gy, calc, pyr, slt		0126-2L
			20	Sh/Clst: gy blk, slt		0126-3L
			20	Cont : prp		0126-4L
3202.00	swc					0052
		3.35	100	Sh/Clst: gy blk, pyr, slt		0052-1L
			tr	Cont : lt brn gy, dd		0052-2L

Table 2 : Lithology description for well NOCS 35/11-6

Depth unit of measure: m

Depth	Type		Grp	Frm	Age	Trb	Sample
Int Cvd	TOC%	%	Lithology description				
3203.00							0127
		45	Sh/Clst:		m gy to lt gy, calc, pyr, slt		0127-1L
		35	Sh/Clst:		gy blk, slt		0127-2L
		10	Cont	:	prp		0127-3L
		5	S/Sst	:	w, f, crs, hd		0127-4L
		5	Sh/Clst:		drk red brn, slt, fe		0127-5L
3212.00							0128
		85	Sh/Clst:		gy blk, slt, pyr, st		0128-1L
		10	Sh/Clst:		lt gy to m gy to lt gn gy, calc, slt		0128-2L
		5	Cont	:	prp		0128-3L
		tr	S/Sst	:	w to m gy, f, crs, hd		0128-4L
3221.00							0129
		80	Sh/Clst:		gy blk, slt, pyr, st		0129-1L
		10	Sh/Clst:		lt gy to m gy to lt gn gy, calc, slt, st		0129-2L
		5	Cont	:	prp		0129-3L
		5	Ca	:	lt gy to m gy, f		0129-4L
		tr	S/Sst	:	w, f, crs, hd		0129-5L
3223.00	swc						0053
		90	Sh/Clst:		gy blk, slt		0053-1L
		10	Cont	:	lt brn gy, dd		0053-2L
3230.00							0130
	2.99	90	Sh/Clst:		gy blk, slt, pyr, st		0130-1L
		5	Sh/Clst:		lt gy to m gy to lt gn gy, calc, slt, st		0130-2L
		5	Cont	:	prp		0130-3L
		tr	Ca	:	lt gy to m gy, f		0130-4L
		tr	S/Sst	:	w, f, crs, hd		0130-5L

Table 2 : Lithology description for well NOCS 35/11-6

Depth unit of measure: m

Depth	Type		Grp	Frm	Age	Trb	Sample
Int Cvd	TOC%	%	Lithology description				
3239.00							0131
		100	Sh/Clst:		gy blk, slt, pyr, st		0131-1L
		tr	Sh/Clst:		lt gy to m gy to lt gn gy, calc, slt, st		0131-2L
		tr	Cont	:	prp		0131-3L
		tr	Ca	:	lt gy to m gy, f		0131-4L
		tr	S/Sst	:	w, f, crs, hd		0131-5L
3247.50	swc						0054
	1.94	100	Sh/Clst:		gy blk to drk y brn, pyr, slt		0054-1L
		tr	Cont	:	lt brn gy, dd		0054-2L
3257.00							0132
		90	Sh/Clst:		gy blk, slt, pyr, st		0132-1L
		5	Cont	:	prp		0132-2L
		5	Ca	:	lt gy to m gy, f		0132-3L
		tr	S/Sst	:	w, f, crs, hd		0132-4L
		tr	Sh/Clst:		lt gy to m gy, pyr, slt		0132-5L
3266.00							0133
		90	Sh/Clst:		gy blk, slt, pyr, st, trbofgs		0133-1L
		5	Cont	:	prp		0133-2L
		5	Ca	:	lt gy to m gy, f		0133-3L
		tr	S/Sst	:	w, f, crs, hd		0133-4L
		tr	Sh/Clst:		lt gy to m gy to lt gn gy, pyr, slt		0133-5L
3273.00	swc						0055
		90	Sh/Clst:		gy blk, pyr, slt		0055-1L
		10	Cont	:	lt brn gy, dd		0055-2L

Table 2 : Lithology description for well NOCS 35/11-6

Depth unit of measure: m

Depth Int	Cvd	Type TOC%	%	Grp Frm Age / Lithology description	Trb	Sample
3275.00						0134
			100	Sh/Clst: gy blk to drk gy, slt, pyr, st, trbofgs		0134-1L
			tr	Cont : prp		0134-2L
			tr	Ca : lt gy to m gy, f		0134-3L
			tr	Sh/Clst: lt gy to m gy to lt gn gy, pyr, slt		0134-4L
3284.00						0135
			90	Sh/Clst: gy blk to drk gy, slt, pyr, st, trbofgs		0135-1L
			5	Cont : prp		0135-2L
			5	Ca : lt gy to m gy, f		0135-3L
			tr	Sh/Clst: lt gy to m gy to lt gn gy, pyr, slt		0135-4L
			tr	S/Sst : w to or gy, f, crs, hd		0135-5L
3293.00						0136
			90	Sh/Clst: brn gy to drk gy, slt, pyr, st, trbofgs		0136-1L
			5	Cont : prp		0136-2L
			5	Ca : lt gy to m gy, f		0136-3L
			tr	Sh/Clst: m gy, pyr, slt		0136-4L
3295.00	swc					0056
		1.60	95	Sh/Clst: gy blk to drk y brn, pyr, slt, mic		0056-1L
			5	Cont : lt brn gy, dd		0056-2L

Table 2 : Lithology description for well NOCS 35/11-6

Depth unit of measure: m

Depth Int	Cvd	Type TOC%	%	Grp Frm Age Lithology description	Trb	Sample
3302.00						0170
			100	Sh/Clst: gy blk to dsk y brn, slt		0170-1L
3311.00						0171
			60	Sh/Clst: gy blk to dsk y brn, slt		0171-1L
			30	Cont : cem		0171-2L
	cvd		10	Sh/Clst: m gy, gy red		0171-3L
3317.00	swc					0137
			95	Sh/Clst: gy blk, slt		0137-1L
			5	Cont : brn gy, dd		0137-2L
3320.00						0172
			70	Cont : cem		0172-2L
			10	Sh/Clst: gy blk to dsk y brn, slt		0172-1L
	cvd		10	Sh/Clst: m gy, gy red		0172-3L
			10	Cont : prp		0172-4L
3329.00						0173
			80	Sh/Clst: gy blk to dsk y brn, slt		0173-1L
			10	Cont : cem		0173-2L
			10	Cont : prp		0173-4L
	cvd		tr	Sh/Clst: m gy, gy red		0173-3L
3338.00						0174
			80	Sh/Clst: gy blk to dsk y brn, slt		0174-1L
			10	Cont : cem		0174-2L
	cvd		5	Sh/Clst: m gy, gy red		0174-3L
			5	Cont : prp		0174-4L

Table 2 : Lithology description for well NOCS 35/11-6

Depth unit of measure: m

Depth	Type		Grp	Frm	Age	Trb	Sample
Int Cvd	TOC%	%	Lithology description				
3340.00	swc						0138
	2.75	100	Sh/Clst: gy blk to dsk y brn, slt				0138-1L
		tr	Cont : lt brn gy, dd				0138-2L
3347.00							0175
		85	Sh/Clst: gy blk to dsk y brn, slt				0175-1L
		5	Cont : cem				0175-2L
cvd		5	Sh/Clst: m gy, gy red				0175-3L
		5	Cont : prp				0175-4L
3356.00							0176
		90	Sh/Clst: gy blk to dsk y brn, slt				0176-1L
		5	Cont : cem				0176-2L
cvd		5	Sh/Clst: m gy, gy red				0176-3L
		tr	Cont : prp				0176-4L
3365.00							0177
	3.31	100	Sh/Clst: gy blk to dsk y brn, slt				0177-1L
cvd		tr	Sh/Clst: m gy, gy red				0177-2L
		tr	Cont : prp				0177-3L
3374.00	swc						0139
		100	Sh/Clst: gy blk to blk, slt				0139-1L
		tr	Cont : lt brn gy, dd				0139-2L
3374.00							0178
		100	Sh/Clst: gy blk to dsk y brn, slt				0178-1L

Table 2 : Lithology description for well NOCS 35/11-6

Depth unit of measure: m

Depth Int	Cvd	Type TOC%	%	Grp Frm Age Lithology description	Trb	Sample
3383.00						0179
			100	Sh/Clst: gy blk to dsk y brn, slt		0179-1L
3392.00						0180
			100	Sh/Clst: gy blk to dsk y brn, slt		0180-1L
3401.00						0181
			100	Sh/Clst: gy blk to dsk y brn, slt		0181-1L
3410.00						0182
			100	Sh/Clst: gy blk to dsk y brn, slt		0182-1L
3418.00	swc					0140
		2.28	95	Sh/Clst: gy blk to blk, slt		0140-1L
			5	Cont : lt brn gy, dd		0140-2L
3419.00						0183
			100	Sh/Clst: gy blk to dsk y brn, slt		0183-1L
3428.00						0184
			100	Sh/Clst: gy blk to dsk y brn, slt		0184-1L
3437.00						0185
			100	Sh/Clst: gy blk to dsk y brn, slt		0185-1L

Table 2 : Lithology description for well NOCS 35/11-6

Depth unit of measure: m

Depth		Type		Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description				
3437.50		swc						0141
			95	Sh/Clst: gy blk to dsk y brn, slt				0141-1L
			5	Cont : lt brn gy, dd				0141-2L
3445.50		swc						0142
			100	Sh/Clst: gy blk to dsk y brn, slt				0142-1L
			tr	Cont : lt brn gy, dd				0142-2L
3446.00								0186
			100	Sh/Clst: gy blk to dsk y brn, slt				0186-1L
3454.00		swc						0143
		2.02	95	Sh/Clst: gy blk, slt				0143-1L
			5	Cont : lt brn gy, dd				0143-2L
3455.00								0187
			100	Sh/Clst: gy blk to dsk y brn, slt				0187-1L
			tr	Cont : prp				0187-2L
3464.00								0188
			100	Sh/Clst: gy blk to dsk y brn, slt				0188-1L
3473.00								0189
			100	Sh/Clst: gy blk to dsk y brn, slt				0189-1L
	cvd		tr	Sh/Clst: m gy				0189-2L

Table 2 : Lithology description for well NOCS 35/11-6

Depth unit of measure: m

Depth	Type		Grp	Frm	Age	Trb	Sample
Int Cvd	TOC%	%	Lithology description				
3477.80	swc						0144
		70	Sh/Clst: gy blk to blk, slt				0144-1L
		30	Cont : lt brn gy, dd				0144-2L
3482.00							0190
		100	Sh/Clst: gy blk to dsk y brn, slt				0190-1L
		tr	Cont : prp				0190-2L
3491.00							0191
	3.16	100	Sh/Clst: gy blk to dsk y brn, slt				0191-1L
		tr	Cont : prp				0191-2L
3494.00	swc						0145
		100	Sh/Clst: blk, slt				0145-1L
		tr	Cont : lt brn gy, dd				0145-2L
3500.00							0192
		90	Sh/Clst: gy blk to dsk y brn, slt				0192-1L
		10	Cont : cem				0192-2L
3501.50	swc						0146
	2.40	100	Sh/Clst: blk to gy blk, slt				0146-1L
		tr	Cont : lt brn gy, dd				0146-2L
3509.00							0193
		80	Sh/Clst: gy blk to dsk y brn, slt				0193-1L
		15	Cont : prp				0193-3L
		5	Cont : cem				0193-2L
		tr	S/Sst : lt gy, l				0193-4L

Table 2 : Lithology description for well NOCS 35/11-6

Depth unit of measure: m

Depth	Type		Grp	Frm	Age	Trb	Sample
Int Cvd	TOC%	%	Lithology description				
3518.00							0194
		70	Cont	: prp, bar			0194-2L
cvd		20	Sh/Clst	: gy blk to dsk y brn, slt			0194-1L
		10	S/Sst	: lt gy, l			0194-3L
3527.00							0195
		70	Cont	: prp, bar			0195-2L
		20	S/Sst	: lt gy, l			0195-3L
cvd		10	Sh/Clst	: gy blk to dsk y brn, slt			0195-1L
3536.00							0196
		60	Cont	: prp, bar			0196-2L
		30	S/Sst	: lt gy, l			0196-3L
cvd		10	Sh/Clst	: gy blk to dsk y brn, slt			0196-1L
3545.00							0197
		60	Cont	: prp, bar			0197-2L
		30	S/Sst	: w to lt gy, y gy, l			0197-3L
cvd		10	Sh/Clst	: gy blk to dsk y brn, slt			0197-1L
3554.00							0198
		50	Cont	: prp, bar			0198-2L
		40	S/Sst	: w to lt gy, y gy, l			0198-3L
		10	Coal	: blk			0198-4L
cvd		tr	Sh/Clst	: gy blk to dsk y brn, slt			0198-1L
3563.00							0199
		40	Cont	: cem, prp, bar			0199-2L
		35	S/Sst	: w to lt gy, y gy, l			0199-3L
		15	Coal	: blk			0199-4L
cvd		10	Sh/Clst	: gy blk to dsk y brn, m gy, slt			0199-1L

Table 2 : Lithology description for well NOCS 35/11-6

Depth unit of measure: m

Depth	Type		Grp	Frm	Age	Trb	Sample
Int Cvd	TOC%	%	Lithology description				
3572.00							0200
		50	Cont	: cem, prp, bar			0200-1L
	0.17	30	S/Sst	: w to lt gy, y gy, l			0200-2L
		10	Sh/Clst	: blk to dsk y brn			0200-3L
		10	Coal	: blk			0200-4L
3581.00							0201
		50	Cont	: cem, prp, bar			0201-1L
		20	S/Sst	: w to lt gy, y gy, l			0201-2L
		20	Sh/Clst	: blk to dsk y brn			0201-3L
		10	Coal	: blk			0201-4L
3590.00							0202
		50	Cont	: cem, prp, bar			0202-1L
		20	S/Sst	: w to lt gy, y gy, l			0202-2L
		20	Sh/Clst	: blk to dsk y brn			0202-3L
		10	Coal	: blk			0202-4L
3599.00							0203
		40	Cont	: cem, prp, bar			0203-1L
		30	S/Sst	: w to lt gy, y gy, l			0203-2L
		20	Sh/Clst	: blk to dsk y brn			0203-3L
		10	Coal	: blk			0203-4L
3617.00							0204
		70	S/Sst	: w to lt gy, y gy, l			0204-2L
		15	Cont	: cem, prp, bar			0204-1L
		10	Sh/Clst	: blk to dsk y brn			0204-3L
		5	Coal	: blk			0204-4L

Table 2 : Lithology description for well NOCS 35/11-6

Depth unit of measure: m

Depth Int	Depth Cvd	Type TOC%	%	Grp Frm Age / Lithology description	Trb	Sample
3626.00						0205
			70	S/Sst : w to lt gy, y gy, l		0205-2L
			15	Cont : cem, prp, bar		0205-1L
			10	Sh/Clst: blk to dsk y brn		0205-3L
			5	Coal : blk		0205-4L
3644.00						0206
			70	S/Sst : w to lt gy, y gy, l		0206-2L
			15	Cont : cem, prp, bar		0206-1L
			10	Sh/Clst: blk to dsk y brn		0206-3L
			5	Coal : blk		0206-4L
3653.00						0207
			70	S/Sst : w to lt gy, y gy, l		0207-2L
			15	Cont : cem, prp, bar		0207-1L
			10	Sh/Clst: blk to dsk y brn		0207-3L
			5	Coal : blk		0207-4L
3671.00						0208
		0.86	70	Sh/Clst: blk to dsk y brn		0208-3L
			15	Cont : cem, prp, bar		0208-1L
			10	S/Sst : w to lt gy, y gy, l		0208-2L
			5	Coal : blk		0208-4L
3680.00						0209
			80	S/Sst : w to lt gy, y gy		0209-2L
			10	Cont : cem, prp, bar		0209-1L
			10	Sh/Clst: blk to dsk y brn		0209-3L
			tr	Coal : blk		0209-4L

Table 2 : Lithology description for well NOCS 35/11-6

Depth unit of measure: m

Depth	Type		Grp	Frm	Age	Trb	Sample
Int Cvd	TOC%	%	Lithology description				
3698.00							0210
		90	S/Sst	:	w to lt gy, y gy		0210-2L
		5	Cont	:	cem, prp, bar		0210-1L
		5	Sh/Clst	:	blk to dsk y brn		0210-3L
		tr	Coal	:	blk		0210-4L
3707.00							0211
		70	S/Sst	:	w to lt gy, y gy		0211-2L
		20	Cont	:	cem, prp, bar		0211-1L
		10	Sh/Clst	:	blk to dsk y brn		0211-3L
		tr	Coal	:	blk		0211-4L
3714.50 swc							0147
	1.43	100	Sh/Clst	:	brn gy to m gy to dsk bl gn, slt, s, glauc, cngl		0147-1L
3719.50 swc							0148
		100	Sh/Clst	:	brn gy to m gy to dsk bl gn, slt, s, glauc, cngl		0148-1L
3722.00 swc							0149
	0.78	100	Sltst	:	gy blk to w, s		0149-1L
		tr	Cont	:	lt brn gy, dd		0149-2L
3723.00 swc							0150
		100	Sh/Clst	:	gy blk to lt gy w, slt		0150-1L
		tr	Cont	:	lt brn gy, dd		0150-2L

Table 2 : Lithology description for well NOCS 35/11-6

Depth unit of measure: m

Depth	Type		Grp	Frm	Age	Trb	Sample
Int Cvd	TOC%	%	Lithology description				
3725.00							0212
		80	S/Sst	:	w to lt gy, y gy		0212-2L
		10	Cont	:	cem, prp, bar		0212-1L
		10	Sh/Clst	:	blk to dsk y brn		0212-3L
		tr	Coal	:	blk		0212-4L
3730.00	swc						0151
	1.60	95	Sh/Clst	:	gy blk, slt		0151-1L
		5	Cont	:	lt brn gy, dd		0151-2L
3731.50	swc						0152
		95	Sh/Clst	:	gy blk, slt		0152-1L
		5	Cont	:	lt brn gy, dd		0152-2L
3734.00							0213
		65	S/Sst	:	w to lt gy, y gy		0213-2L
		25	Sh/Clst	:	blk to dsk y brn		0213-3L
		10	Cont	:	cem, prp, bar		0213-1L
3734.80	swc						0153
	0.14	100	Sh/Clst	:	lt gy w to dsk y brn, carb, cly, mic, f		0153-1L
		tr	Cont	:	lt brn gy, dd		0153-2L
3736.50	swc						0154
		100	Sh/Clst	:	lt gy w to lt gy, cly, mic, f, crs		0154-1L
		tr	Cont	:	lt brn gy, dd		0154-2L

Table 2 : Lithology description for well NOCS 35/11-6

Depth unit of measure: m

Depth	Type		Grp	Frm	Age	Trb	Sample
Int Cvd	TOC%	%	Lithology description				
3744.50	swc						0155
	1.85	95	Sh/Clst: gy blk, slt				0155-1L
		5	Cont : lt brn gy, dd				0155-2L
3752.00							0214
		80	Sh/Clst: dsk y brn				0214-3L
		10	Cont : cem, prp, bar				0214-1L
		10	S/Sst : w to lt gy, y gy				0214-2L
3761.00							0215
		75	Sh/Clst: dsk y brn				0215-3L
		20	Cont : cem, prp, bar				0215-1L
		5	S/Sst : w to lt gy, y gy				0215-2L
3765.50	swc						0156
	0.41	100	Sh/Clst: gy blk, slt				0156-1L
3772.20	swc						0157
	0.68	100	Sltst : lt gy to drk gy, mic				0157-1L
		tr	Cont : brn gy, dd				0157-2L
3779.00							0216
		90	S/Sst : w to lt gy, y gy				0216-2L
		5	Cont : cem, prp, bar				0216-1L
		5	Sh/Clst: dsk y brn				0216-3L

Table 2 : Lithology description for well NOCS 35/11-6

Depth unit of measure: m

Depth Int	Cvd	Type TOC%	%	Grp Frm Age Lithology description	Trb	Sample
3783.50	swc					0158
		0.37	100	S/Sst : lt gy to drk gy, cly, mic		0158-1L
			tr	Cont : brn gy, dd		0158-2L
3788.00						0217
			70	S/Sst : w to lt gy, y gy		0217-2L
			20	Cont : cem, prp, bar		0217-1L
			10	Sh/Clst: dsk y brn		0217-3L
3788.50	swc					0159
			95	S/Sst : lt gy w to lt gy to brn gy, cly, mic		0159-1L
			5	Cont : brn gy, dd		0159-2L
3794.50	swc					0160
		0.09	95	S/Sst : lt gy w to lt gy, mic		0160-1L
			5	Cont : brn gy, dd		0160-2L
3806.00						0218
		0.04	80	S/Sst : w to lt gy, y gy		0218-2L
			10	Cont : cem, prp, bar		0218-1L
			10	Sh/Clst: dsk y brn		0218-3L
3815.00						0219
			85	S/Sst : w to lt gy, y gy		0219-2L
			10	Sh/Clst: dsk y brn		0219-3L
			5	Cont : cem, prp, bar		0219-1L

Table 2 : Lithology description for well NOCS 35/11-6

Depth unit of measure: m

Depth	Type		Grp	Frm	Age	Trb	Sample
Int Cvd	TOC%	%	Lithology description				
3833.00							0220
	0.03	95	S/Sst	: w to lt gy, y gy			0220-2L
		5	Sh/Clst	: dsk y brn			0220-3L
		tr	Cont	: cem, prp, bar			0220-1L
3842.00							0221
		90	S/Sst	: w to lt gy, y gy			0221-2L
		10	Sh/Clst	: drk gy to dsk y brn			0221-3L
		tr	Cont	: cem, prp, bar			0221-1L
3860.00							0222
		75	S/Sst	: w to lt gy, y gy			0222-2L
		25	Sh/Clst	: drk gy to dsk y brn			0222-3L
		tr	Cont	: cem, prp, bar			0222-1L
3866.00 swc							0161
	0.41	50	S/Sst	: lt gy, mic			0161-1L
	1.76	45	Sh/Clst	: gy blk to dsk y brn, slt			0161-2L
		5	Cont	: lt brn gy, dd			0161-3L
3869.00							0223
		65	S/Sst	: w to lt gy, y gy			0223-2L
		25	Sh/Clst	: drk gy to dsk y brn			0223-3L
		10	Cont	: prp			0223-1L
3870.00 swc							0162
	1.12	55	S/Sst	: lt gy, mic			0162-1L
		40	Sh/Clst	: gy blk to dsk y brn, slt			0162-2L
		5	Cont	: lt brn gy, dd			0162-3L

Table 2 : Lithology description for well NOCS 35/11-6

Depth unit of measure: m

Depth	Type		Grp	Frm	Age	Trb	Sample
Int Cvd	TOC%	%	Lithology description				
3879.00	swc						0163
	1.23	95	Sh/Clst: gy blk to dsk y brn, slt				0163-1L
		5	Cont : lt brn gy, dd				0163-2L
3887.00							0224
		70	Sh/Clst: drk gy to dsk y brn				0224-3L
		20	Cont : prp				0224-1L
		10	S/Sst : w to lt gy, y gy				0224-2L
3892.50	swc						0164
	0.54	95	S/Sst : lt gy w to lt gy to gy blk, cly, f				0164-1L
		5	Cont : lt brn gy, dd				0164-2L
3896.00							0225
		50	Sh/Clst: drk gy to dsk y brn				0225-3L
		30	S/Sst : w to lt gy, y gy				0225-2L
		20	Cont : prp				0225-1L
3914.00							0226
		40	S/Sst : w to lt gy, y gy				0226-2L
		40	Sh/Clst: drk gy to dsk y brn				0226-3L
		20	Cont : prp				0226-1L
3916.00	swc						0165
		100	Sh/Clst: gy blk to lt gy w to lt gy, slt, s, f, lam				0165-1L
		tr	Cont : lt brn gy, dd				0165-2L

Table 2 : Lithology description for well NOCS 35/11-6

Depth unit of measure: m

Depth	Type		Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description			
3923.00							0227
			40	S/Sst	: w to lt gy, y gy		0227-2L
			40	Sh/Clst	: drk gy to dsk y brn		0227-3L
			20	Cont	: prp		0227-1L
3940.00	swc						0166
		1.48	95	Sh/Clst	: gy blk, slt		0166-1L
			5	Cont	: lt brn gy, dd		0166-2L
3941.00							0228
			80	Sh/Clst	: drk gy to dsk y brn		0228-3L
			10	Cont	: prp		0228-1L
			10	S/Sst	: w to lt gy, y gy		0228-2L
3942.50	swc						0167
			95	Sh/Clst	: gy blk to dsk y brn, slt		0167-1L
			5	Cont	: lt brn gy, dd		0167-2L
3945.30	swc						0168
			95	S/Sst	: lt gy w to lt gy to dsk bl gn, carb, mic, glauc, f		0168-1L
			5	Cont	: lt brn gy, dd		0168-2L
3950.00							0229
			70	S/Sst	: w to lt gy, y gy		0229-2L
			20	Sh/Clst	: drk gy to dsk y brn		0229-3L
			10	Cont	: prp		0229-1L

Table 2 : Lithology description for well NOCS 35/11-6

Depth unit of measure: m

Depth Int	Cvd	Type TOC%	%	Grp Frm Age Lithology description	Trb	Sample
3956.70		swc				0169
			95	S/Sst : lt gy w to lt gy, carb, cly, mic, f		0169-1L
			5	Cont : brn gy, dd		0169-2L
3968.00						0230
			95	S/Sst : w to lt gy, y gy		0230-2L
			5	Sh/Clst: drk gy to dsk y brn		0230-3L
			tr	Cont : prp		0230-1L
3977.00						0231
			100	S/Sst : w to lt gy, y gy		0231-2L
			tr	Cont : prp		0231-1L
			tr	Sh/Clst: drk gy to dsk y brn		0231-3L
3989.00						0232
		0.01	100	S/Sst : w to lt gy, y gy		0232-2L
			tr	Cont : prp		0232-1L
			tr	Sh/Clst: drk gy to dsk y brn		0232-3L

Table 3 : Rock-Eval table for well NOCS 35/11-6

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
1080.00	cut	Sh/Clst: lt or to lt brn gy	0.32	2.54	1.18	2.15	1.79	142	66	2.9	0.11	421	0058-1L
1320.00	cut	Sh/Clst: lt or to brn gy to lt ol gy	0.16	2.13	1.29	1.65	2.04	104	63	2.3	0.07	430	0061-1L
1640.00	cut	Sh/Clst: lt gy to lt gn gy to pl bl gn	0.01	0.13	1.06	0.12	0.33	39	321	0.1	0.07	423	0065-1L
1800.00	cut	Sh/Clst: m gy to brn gy	0.05	1.64	1.26	1.30	2.11	78	60	1.7	0.03	435	0067-2L
2000.00	swc	Sh/Clst: drk gy	0.05	0.23	1.74	0.13	0.66	35	264	0.3	0.18	423	0001-1L
2097.00	swc	Sh/Clst: drk brn to lt brn gn	0.01	0.02	1.48	0.01	0.25	8	592	-	0.33	409	0005-1L
2205.00	swc	Sh/Clst: gy blk	0.06	0.24	0.88	0.27	0.58	41	152	0.3	0.20	421	0009-1L
2313.00	swc	Sh/Clst: gy blk	0.04	0.18	1.01	0.18	0.53	34	191	0.2	0.18	423	0013-1L
2405.00	swc	Sh/Clst: gy blk	0.09	0.59	0.51	1.16	0.89	66	57	0.7	0.13	426	0016-1L
2480.00	swc	Sh/Clst: gy blk	0.04	0.38	0.55	0.69	0.74	51	74	0.4	0.10	428	0019-1L
2623.50	swc	Sh/Clst: gy blk	0.07	0.50	0.84	0.60	0.83	60	101	0.6	0.12	430	0022-1L
2711.00	swc	Sh/Clst: drk gy to gy blk	0.08	0.63	1.29	0.49	0.99	64	130	0.7	0.11	432	0025-1L
2802.00	swc	Sh/Clst: gy blk	0.33	6.06	1.27	4.77	3.26	186	39	6.4	0.05	429	0031-1L
2865.00	swc	Sh/Clst: gy blk	0.11	0.39	1.28	0.30	0.75	52	171	0.5	0.22	429	0035-1L

Table 3 : Rock-Eval table for well NOCS 35/11-6

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
2898.50	swc	Sh/Clst: gy blk	0.07	0.23	1.33	0.17	0.48	48	277	0.3	0.23	427	0038-1L
2905.00	swc	Sh/Clst: gy blk	0.89	11.98	0.70	17.11	2.79	429	25	12.9	0.07	434	0039-1L
2938.50	swc	Sh/Clst: gy blk to blk	1.62	15.62	0.79	19.77	4.04	387	20	17.2	0.09	434	0041-1L
2960.00	swc	Sh/Clst: gy blk to drk y brn	2.85	22.25	0.37	60.14	4.12	540	9	25.1	0.11	430	0042-1L
2996.00	cut	Sh/Clst: gy blk to drk gy	1.73	18.73	0.36	52.03	4.12	455	9	20.5	0.08	434	0104-1L
3012.00	swc	Sh/Clst: blk	1.54	9.35	0.48	19.48	3.28	285	15	10.9	0.14	438	0044-1L
3041.00	cut	Sh/Clst: gy blk to drk gy	1.86	19.23	0.48	40.06	4.15	463	12	21.1	0.09	440	0109-1L
3055.00	swc	Sh/Clst: gy blk	2.25	14.55	0.46	31.63	4.51	323	10	16.8	0.13	439	0046-1L
3093.00	swc	Sh/Clst: gy blk	2.26	9.80	0.53	18.49	3.85	255	14	12.1	0.19	435	0048-1L
3115.00	swc	Sh/Clst: gy blk	1.61	7.77	0.97	8.01	4.23	184	23	9.4	0.17	441	0049-1L
3131.00	cut	Sh/Clst: gy blk to m gy	1.63	12.18	0.51	23.88	4.63	263	11	13.8	0.12	438	0119-1L
3154.00	swc	Sltst : drk gy to gy blk	1.02	4.87	0.85	5.73	2.50	195	34	5.9	0.17	436	0051-1L
3167.00	cut	S/Sst : lt gy w to drk gy	0.47	2.10	0.32	6.56	1.24	169	26	2.6	0.18	435	0123-1L
3185.00	cut	S/Sst : w	0.02	0.03	0.16	0.19	0.07	43	229	0.1	0.40	439	0125-1L
3202.00	swc	Sh/Clst: gy blk	0.48	2.72	1.07	2.54	3.35	81	32	3.2	0.15	446	0052-1L

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
3230.00	cut	Sh/Clst: gy blk	0.47	3.65	0.31	11.77	2.99	122	10	4.1	0.11	449	0130-1L
3247.50	swc	Sh/Clst: gy blk to drk y brn	0.51	1.74	1.57	1.11	1.94	90	81	2.3	0.23	446	0054-1L
3295.00	swc	Sh/Clst: gy blk to drk y brn	0.83	3.99	0.30	13.30	1.60	249	19	4.8	0.17	446	0056-1L
3340.00	swc	Sh/Clst: gy blk to dsk y brn	1.35	7.33	0.38	19.29	2.75	267	14	8.7	0.16	444	0138-1L
3365.00	cut	Sh/Clst: gy blk to dsk y brn	1.88	13.72	0.66	20.79	3.31	415	20	15.6	0.12	449	0177-1L
3418.00	swc	Sh/Clst: gy blk to blk	1.22	6.39	0.63	10.14	2.28	280	28	7.6	0.16	450	0140-1L
3454.00	swc	Sh/Clst: gy blk	0.98	4.22	1.09	3.87	2.02	209	54	5.2	0.19	445	0143-1L
3491.00	cut	Sh/Clst: gy blk to dsk y brn	1.09	6.38	0.72	8.86	3.16	202	23	7.5	0.15	448	0191-1L
3501.50	swc	Sh/Clst: blk to gy blk	0.60	2.29	1.22	1.88	2.40	95	51	2.9	0.21	451	0146-1L
3572.00	cut	S/Sst : w to lt gy, y gy	0.05	0.13	0.16	0.81	0.17	76	94	0.2	0.28	445	0200-2L
3671.00	cut	Sh/Clst: blk to dsk y brn	0.24	0.35	0.24	1.46	0.86	41	28	0.6	0.41	446	0208-3L
3714.50	swc	Sh/Clst: brn gy to m gy to dsk bl gn	0.43	0.86	2.78	0.31	1.43	60	194	1.3	0.33	455	0147-1L
3722.00	swc	Sltst : gy blk to w	0.44	0.65	1.21	0.54	0.78	83	155	1.1	0.40	446	0149-1L
3730.00	swc	Sh/Clst: gy blk	0.84	2.41	1.17	2.06	1.60	151	73	3.3	0.26	455	0151-1L

Table 3 : Rock-Eval table for well NOCS 35/11-6

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
3734.80	swc	Sh/Clst: lt gy w to dsk y brn	0.10	0.10	0.49	0.20	0.14	71	350	0.2	0.50	436	0153-1L
3744.50	swc	Sh/Clst: gy blk	1.22	3.30	0.58	5.69	1.85	178	31	4.5	0.27	452	0155-1L
3765.50	swc	Sh/Clst: gy blk	0.23	0.39	0.54	0.72	0.41	95	132	0.6	0.37	448	0156-1L
3772.20	swc	Sltst : lt gy to drk gy	0.45	0.63	0.47	1.34	0.68	93	69	1.1	0.42	453	0157-1L
3783.50	swc	S/Sst : lt gy to drk gy	0.24	0.33	0.57	0.58	0.37	89	154	0.6	0.42	445	0158-1L
3794.50	swc	S/Sst : lt gy w to lt gy	0.11	0.10	0.53	0.19	0.09	111	589	0.2	0.52	415	0160-1L
3806.00	cut	S/Sst : w to lt gy, y gy	0.02	0.04	0.10	0.40	0.04	100	250	0.1	0.33	433	0218-2L
3833.00	cut	S/Sst : w to lt gy, y gy	0.01	0.01	0.06	0.17	0.03	33	200	-	0.50	389	0220-2L
3866.00	swc	S/Sst : lt gy	0.14	0.11	1.20	0.09	0.41	27	293	0.3	0.56	437	0161-1L
3866.00	swc	Sh/Clst: gy blk to dsk y brn	0.63	1.25	1.13	1.11	1.76	71	64	1.9	0.34	449	0161-2L
3870.00	swc	S/Sst : lt gy	0.57	1.30	1.29	1.01	1.12	116	115	1.9	0.30	452	0162-1L
3879.00	swc	Sh/Clst: gy blk to dsk y brn	0.78	1.42	1.09	1.30	1.23	115	89	2.2	0.35	452	0163-1L
3892.50	swc	S/Sst : lt gy w to lt gy to gy blk	0.75	1.37	1.65	0.83	0.54	254	306	2.1	0.35	452	0164-1L
3940.00	swc	Sh/Clst: gy blk	0.81	1.40	0.90	1.56	1.48	95	61	2.2	0.37	452	0166-1L

Table 3 : Rock-Eval table for well NOCS 35/11-6

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
3989.00	cut	S/Sst : w to lt gy, y gy	0.01	0.02	0.12	0.17	0.01	200	1200	-	0.33	456	0232-2L

Table 4: GHM Analyses Mobil Well 35/11-6 page 1

Sample depth	Sample type	Lithology	S1 mg HC / g Rock	S2	PP	PI	Tmax C
1510	CUT	SD/CLST	0.29	0.41	0.70	0.42	426
1560	CUT	CLST	0.15	0.80	0.94	0.16	430
1700	CUT	SD/CLST	0.07	0.30	0.37	0.18	426
2765	CUT	LS	0.03	0.10	0.12	0.21	454
2774	CUT	CLST	0.22	0.41	0.64	0.35	436
2786	CUT	CLST	0.22	0.17	0.39	0.57	436
2807	CUT	CLST	0.10	0.91	1.01	0.10	443
2825	CUT	CLST	0.10	1.22	1.32	0.08	444
2846	CUT	CLST	0.10	0.19	0.29	0.33	444
2864	CUT	CLST	0.05	0.18	0.23	0.22	434
2882	CUT	CLST	0.05	0.35	0.40	0.12	440
2900	CUT	CLST	0.03	0.25	0.28	0.12	437
2912	CUT	CLST	1.03	12.47	13.50	0.08	444
2924	CUT	CLST	2.66	26.72	29.38	0.09	438
2936	CUT	CLST	1.75	21.12	22.87	0.08	442
2945	CUT	CLST	1.32	13.39	14.71	0.09	437
2966	CUT	CLST	1.92	21.94	23.86	0.08	431
2981	CUT	CLST	3.09	22.17	25.26	0.12	437
2995	CUT	CLST	3.25	23.16	26.40	0.12	428
3005	CUT	CLST	2.11	15.19	17.31	0.12	436
3017	CUT	CLST	3.13	15.45	18.58	0.17	434
3026	CUT	CLST	3.43	22.14	25.57	0.13	437
3032	CUT	CLST	4.21	25.71	29.91	0.14	430
3050	CUT	CLST	3.43	23.39	26.82	0.13	437
3053	CUT	CLST	2.96	23.66	26.62	0.11	436
3068	CUT	SD/CLST	2.82	6.52	9.34	0.30	441
3071	CUT	SAND	1.43	3.35	4.77	0.30	432
3072	CUT	CLST/SD	3.05	13.10	16.15	0.19	431
3072	CUT	SD/CLST	2.19	8.87	11.06	0.20	444
3072	CCP	SST	0.70	1.24	1.94	0.36	445
3074	CUT	CLST	0.23	1.12	1.35	0.17	446
3077	CUT	SD/CLST	1.82	9.44	11.26	0.16	442
3076.85	CCP	CLST	3.92	19.49	23.41	0.17	434
3089	CUT	CLST	3.70	15.87	19.57	0.19	431
3095	CUT	CLST	3.88	17.22	21.10	0.18	437
3104	CUT	CLST	1.88	9.37	11.25	0.17	434
3113	CUT	CLST	2.60	11.91	14.51	0.18	443
3122	CUT	CLST	2.71	16.08	18.79	0.14	430
3131	CUT	CLST	2.35	11.21	13.56	0.17	438
3140	CUT	CLST	3.25	18.42	21.67	0.15	431
3152	CUT	SST/CLST	1.88	6.62	8.51	0.22	445
3158	CUT	CLST/SST	2.60	14.65	17.25	0.15	444
3160	CUT	SST	0.42	0.95	1.37	0.31	430
3162	CCP	SST	0.85	0.16	1.01	0.84	419
3163	CUT	SD/SST	0.31	0.92	1.23	0.25	442
3164	CCP	SST	0.04	0.05	0.08	0.46	431
3168	CCP	SST	1.51	0.24	1.75	0.86	428
3169	CCP	SST	0.45	1.13	1.58	0.29	416

Table 4: GHM Analyses Mobil Well 35/11-6 page 2

Sample depth	Sample type	Lithology	S1 mg HC / g Rock	S2	PP	PI	Tmax C
3170.5	CCP	SST	2.21	0.42	2.64	0.84	442
3171	CUT	SD/SST	0.26	0.84	1.10	0.24	443
3171.5	CCP	SST	4.45	1.53	5.98	0.74	418
3172	CCP	SST	0.24	0.78	1.02	0.23	449
3173	CCP	SST	5.06	1.20	6.26	0.81	431
3178	CCP	CLST	2.35	18.34	20.69	0.11	430
3181	CUT	SST	0.05	0.14	0.18	0.26	441
3182	CCP	SST	0.03	0.07	0.10	0.28	444
3185	CCP	SST	3.30	0.60	3.90	0.85	419
3187	CCP	SST	0.03	0.14	0.17	0.19	348
3188	CUT	SST	0.19	1.18	1.37	0.14	439
3189	CCP	SST	0.16	0.39	0.55	0.29	441
3191	CCP	CLST	1.41	12.10	13.51	0.10	438
3193	CUT	SST	0.36	3.97	4.33	0.08	438
3195	CUT	SST	0.07	0.12	0.18	0.36	440
3200	CUT	CLST	0.51	5.24	5.75	0.09	447
3209	CUT	CLST	0.75	6.09	6.84	0.11	447
3218	CUT	CLST	0.98	8.08	9.06	0.11	441
3227	CUT	CLST	0.91	7.10	8.00	0.11	446
3236	CUT	CLST	0.94	6.56	7.50	0.13	445
3245	CUT	CLST	0.86	6.46	7.32	0.12	448
3254	CUT	CLST	0.99	5.49	6.48	0.15	445
3263	CUT	CLST	0.56	5.60	6.15	0.09	449
3272	CUT	CLST	1.76	9.65	11.42	0.15	446
3281	CUT	CLST	0.93	5.13	6.07	0.15	436
3290	CUT	CLST	0.89	6.60	7.48	0.12	448
3299	CUT	CLST	1.11	10.13	11.24	0.10	447
3305	CUT	CLST	2.30	7.01	9.31	0.25	445
3317	CUT	CLST	4.03	17.62	21.65	0.19	439
3323	CUT	CLST	3.00	20.53	23.54	0.13	451
3335	CUT	CLST	2.67	8.13	10.80	0.25	451
3341	CUT	CLST	1.38	6.37	7.75	0.18	443
3353	CUT	CLST	ERR	13.86	ERR	ERR	441
3359	CUT	CLST	3.38	15.24	18.62	0.18	445
3371	CUT	CLST	ERR	39.72	ERR	ERR	438
3383	CUT	CLST	ERR	29.54	ERR	ERR	448
3395	CUT	CLST	6.67	24.29	30.95	0.22	434
3407	CUT	CLST	6.56	32.99	39.56	0.17	448
3419	CUT	CLST	5.11	15.14	20.25	0.25	455
3422	CUT	LMST	1.34	0.74	2.08	0.64	441
3431	CUT	CLST	1.19	6.64	7.84	0.15	449
3443	CUT	CLST	1.62	6.68	8.29	0.20	441
3455	CUT	CLST	2.00	4.47	6.47	0.31	453
3461	CUT	CLST	0.84	3.90	4.74	0.18	449
3467	CUT	CLST	1.08	5.78	6.86	0.16	451
3473	CUT	CLST	0.96	3.90	4.86	0.20	451
3485	CUT	CLST	1.14	4.46	5.60	0.20	448
3497	CUT	CLST	0.97	2.96	3.93	0.25	455
3503	CUT	CLST	1.47	9.10	10.56	0.14	452

Table 4: GHM Analyses Mobil Well 35/11-6 page 3

Sample depth	Sample type	Lithology	S1 mg HC / g Rock	S2	PP	PI	Tmax C
3365	CUT	CLST	2.56	12.21	14.76	0.17	445
3425	CUT	CLST	1.58	7.00	8.58	0.18	452
3473	CUT	LMST	0.92	3.93	4.86	0.19	451
3491	CUT	CLST	1.11	5.08	6.19	0.18	442
3501	CCP	CLST	1.01	4.83	5.84	0.17	452
3502	CCP	CLST	1.50	8.59	10.08	0.15	458
3504	CCP	CLST	1.47	6.94	8.41	0.17	442
3506	CCP	CLST	0.90	4.62	5.52	0.16	458
3512	CCP	SST	0.31	0.74	1.05	0.30	462
3512.88	CCP	SST	1.67	4.64	6.31	0.27	447
3513	CCP	SST	1.04	0.63	1.68	0.62	454
3513.25	CCP	SST	2.17	0.29	2.47	0.88	417
3508	CCP	CLST	1.31	6.70	8.01	0.16	457
3510	CCP	CLST	1.22	5.72	6.94	0.18	459
3516	CCP	SST	1.27	0.29	1.56	0.81	426
3518	CUT	SST	0.91	0.33	1.25	0.73	610
3518	CCP	SST	4.42	1.13	5.55	0.80	427
3520	CCP	SST	0.96	1.94	2.90	0.33	452
3522	CCP	SST	1.35	0.14	1.49	0.90	439
3524	CCP	SST	0.24	0.23	0.47	0.51	463
3524	CUT	SST	2.23	0.39	2.62	0.85	431
3530	CCP	SST	1.06	0.49	1.55	0.68	459
3542.75	CCP	SST	0.23	0.54	0.78	0.30	462
3517	CCP	SST	1.94	0.28	2.22	0.87	422
3521	CCP	SST	0.73	2.67	3.40	0.22	454
3526	CCP	SLTST	0.34	1.19	1.53	0.22	466
3528	CCP	SST	0.23	0.08	0.30	0.74	476
3532	CCP	SST	0.16	0.09	0.25	0.64	454
3537	CCP	COAL	20.80	134.03	154.83	0.13	452
3538	CCP	SST	0.12	0.15	0.27	0.45	463
3544	CCP	SST	0.08	0.06	0.14	0.55	466
3545	CCP	SLTST	4.56	17.44	22.00	0.21	461
3547	CCP	SST	0.20	0.20	0.39	0.50	465
3549	CCP	SLTST	0.16	0.35	0.51	0.31	473
3558	CCP	SST	0.10	0.03	0.13	0.77	431
3551	CCP	SLTST	2.65	15.06	17.71	0.15	460
3554	CCP	COAL	17.45	77.31	94.77	0.18	610
3556	CCP	SLTST	0.30	0.92	1.22	0.25	610
3566	CUT	SST	0.16	0.46	0.61	0.25	454
3572	CUT	SST	0.58	2.71	3.30	0.18	458
3559	CCP	SST	0.07	0.10	0.17	0.40	459
3565	CCP	SST	0.10	0.17	0.27	0.36	460
3575	CCP	SST	1.50	0.61	2.11	0.71	460
3581	CCP	CLST	0.70	2.93	3.63	0.19	461
3584	CCP	CLST	1.27	5.90	7.17	0.18	458
3586	CCP	SST	0.75	2.49	3.24	0.23	459
3589	CCP	CLST	0.27	1.96	2.23	0.12	458
3594	CCP	CARB.SST	1.97	8.23	10.21	0.19	457
3597	CCP	ARG.COAL	21.57	114.66	136.23	0.16	458

Table 4: GHM Analyses Mobil Well 35/11-6 page 4

Sample depth	Sample type	Lithology	S1 mg HC / g Rock	S2	PP	PI	Tmax C
3598	CCP	SST	0.06	0.04	0.11	0.58	456
3605	CCP	SST	0.07	0.12	0.19	0.36	453
3608.8	CCP	SST	0.05	0.04	0.09	0.57	461
3612	CCP	SST	0.04	0.04	0.08	0.53	449
3616	CCP	SST	0.02	0.03	0.05	0.37	463
3619	CCP	SST	0.04	0.04	0.08	0.48	455
3622	CCP	SST	0.03	0.04	0.06	0.42	455
3623	CCP	SST	0.02	0.02	0.04	0.43	458
3627	CCP	SST	0.04	0.11	0.15	0.24	422
3630	CCP	SST	0.01	0.02	0.03	0.38	460
3633	CCP	SST	0.02	0.03	0.04	0.36	459
3635	CCP	SST	0.02	0.03	0.04	0.41	463
3638	CCP	SST	0.04	0.03	0.07	0.59	435
3641	CCP	SST	0.01	0.03	0.04	0.21	458
3644	CCP	SST	0.01	0.03	0.04	0.28	446
3647	CCP	SST	0.02	0.04	0.06	0.37	461
3650	CCP	SST	0.03	0.06	0.09	0.31	460
3653	CCP	SST	0.01	0.03	0.04	0.36	456
3654.4	CCP	CLST	1.14	6.59	7.73	0.15	458
3654.5	CCP	COAL	19.05	131.93	150.99	0.13	433
3657	CCP	SST	0.06	0.12	0.18	0.33	459
3660	CCP	CLST	1.11	7.14	8.25	0.14	459
3663	CCP	CLST	0.29	0.76	1.06	0.28	454
3666	CCP	CLST	0.59	2.02	2.61	0.22	461
3669	CCP	CLST	0.33	0.98	1.31	0.25	465
3672	CCP	CLST	0.42	1.16	1.58	0.27	458
3673	CCP	SST	0.08	0.12	0.20	0.42	466
3675	CCP	SST	0.45	1.94	2.39	0.19	455
3678	CCP	SST	0.03	0.04	0.07	0.44	429
3681	CCP	SST	0.03	0.05	0.08	0.38	457
3684	CCP	SST	1.09	2.60	3.69	0.30	462
3687	CCP	SST	0.06	0.08	0.14	0.44	459
3689	CCP	SST	0.18	0.58	0.76	0.24	457
3692	CCP	SST	0.03	0.04	0.07	0.45	427
3695.5	CCP	SST	0.03	0.03	0.06	0.44	455
3698	CCP	SST	0.01	0.01	0.03	0.52	428
3701	CCP	SST	0.00	0.03	0.04	0.08	377
3703	CCP	SST	0.03	0.00	0.03	0.88	460
3703.7	CCP	SST	0.39	0.25	0.65	0.61	457
3704.3	CCP	SST	0.07	0.09	0.16	0.46	429
3710	CUT	SST	0.12	0.16	0.29	0.43	435
3722	CUT	SST/CLST	0.48	1.57	2.05	0.23	455

Table 5 a: Weight of EOM and Chromatographic Fraction for well NOCS 35/11-6

Depth unit of measure: m

Depth	Typ	Lithology	Rock Extracted (g)	EOM (mg)	Sat (mg)	Aro (mg)	Asph (mg)	NSO (mg)	HC (mg)	Non-HC (mg)	TOC(e) (%)	Sample
2924.00	cut	Sh/Clst: gy blk	7.8	30.2	9.7	9.7	4.6	6.2	19.4	10.8	4.53	0096-1L
2942.00	cut	Sh/Clst: gy blk to drk gy	7.3	25.7	9.0	9.0	2.9	4.8	18.0	7.7	3.81	0098-1L
3032.00	cut	Sh/Clst: gy blk to drk gy	7.6	29.7	9.2	10.7	3.9	5.9	19.9	9.8	4.85	0108-1L
3072.70	oil	bulk	-	62.2	38.6	17.7	2.6	3.3	56.3	5.9	-	0234-0B
3104.00	cut	Sh/Clst: gy blk to dsk y brn	7.0	24.1	5.9	9.2	5.3	3.7	15.1	9.0	4.42	0116-1L
3131.00	cut	Sh/Clst: gy blk to m gy	8.7	13.7	3.6	5.7	3.6	0.8	9.3	4.4	5.10	0119-1L
3167.00	cut	S/Sst : lt gy w to drk gy	5.2	7.0	0.9	2.6	2.4	1.1	3.5	3.5	1.60	0123-1L
3184.80	ccp	S/Sst : w to lt gy to drk gy	9.0	24.3	14.3	6.2	1.8	2.0	20.5	3.8	0.35	0233-1L
3230.00	cut	Sh/Clst: gy blk	6.7	10.1	2.1	3.5	2.8	1.7	5.6	4.5	3.75	0130-1L
3410.00	cut	Sh/Clst: gy blk to dsk y brn	7.0	44.1	14.0	14.4	9.6	6.1	28.4	15.7	4.23	0182-1L
3491.00	cut	Sh/Clst: gy blk to dsk y brn	7.8	22.2	5.7	6.8	7.6	2.1	12.5	9.7	4.29	0191-1L
3671.00	cut	Sh/Clst: blk to dsk y brn	4.6	4.9	1.2	1.7	1.1	0.9	2.9	2.0	1.45	0208-3L
3730.00	swc	Sh/Clst: gy blk	5.1	14.7	5.3	4.5	3.0	1.9	9.8	4.9	1.93	0151-1L
3879.00	swc	Sh/Clst: gy blk to dsk y brn	3.8	8.8	3.0	2.0	2.6	1.2	5.0	3.8	1.59	0163-1L

Depth unit of measure: m

Depth	Typ	Lithology	Rock Extracted (g)	EOM (mg)	Sat (mg)	Aro (mg)	Asph (mg)	NSO (mg)	HC (mg)	Non-HC (mg)	TOC(e) (%)	Sample
3940.00	swc	Sh/Clst: gy blk	1.9	6.0	2.3	1.2	1.5	1.0	3.5	2.5	1.62	0166-1L

Table 5 b: Concentration of EOM and Chromatographic Fraction (wt ppm rock) for well NOCS 35/11-6

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
2924.00	cut	Sh/Clst: gy blk	3856	1238	1238	587	791	2477	1379	0096-1L
2942.00	cut	Sh/Clst: gy blk to drk gy	3515	1231	1231	396	656	2462	1053	0098-1L
3032.00	cut	Sh/Clst: gy blk to drk gy	3902	1208	1406	512	775	2614	1287	0108-1L
3072.70	oil	bulk	-	-	-	-	-	-	-	0234-0B
3104.00	cut	Sh/Clst: gy blk to dsk y brn	3457	846	1319	760	530	2166	1291	0116-1L
3131.00	cut	Sh/Clst: gy blk to m gy	1576	414	655	414	92	1070	506	0119-1L
3167.00	cut	S/Sst : lt gy w to drk gy	1348	173	500	462	211	674	674	0123-1L
3184.80	ccp	S/Sst : w to lt gy to drk gy	2697	1587	688	199	221	2275	421	0233-1L
3230.00	cut	Sh/Clst: gy blk	1507	313	522	417	253	835	671	0130-1L
3410.00	cut	Sh/Clst: gy blk to dsk y brn	6327	2008	2065	1377	875	4074	2252	0182-1L
3491.00	cut	Sh/Clst: gy blk to dsk y brn	2831	727	867	969	267	1594	1237	0191-1L
3671.00	cut	Sh/Clst: blk to dsk y brn	1065	260	369	239	195	630	434	0208-3L
3730.00	swc	Sh/Clst: gy blk	2905	1047	889	592	375	1936	968	0151-1L
3879.00	swc	Sh/Clst: gy blk to dsk y brn	2309	787	524	682	314	1312	997	0163-1L

Table 5 b: Concentration of EOM and Chromatographic Fraction (wt ppm rock) for well NOCS 35/11-6

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
3940.00	swc	Sh/Clst: gy blk	3225	1236	645	806	537	1881	1344	0166-1L

Table 5 c: Concentration of EOM and Chromatographic Fraction (mg/g TOC(e)) for well NOCS 35/11-6

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
2924.00	cut	Sh/Clst: gy blk	85.14	27.35	27.35	12.97	17.48	54.69	30.45	0096-1L
2942.00	cut	Sh/Clst: gy blk to drk gy	92.28	32.31	32.31	10.41	17.23	64.63	27.65	0098-1L
3032.00	cut	Sh/Clst: gy blk to drk gy	80.47	24.93	28.99	10.57	15.99	53.92	26.55	0108-1L
3072.70	oil	bulk	-	-	-	-	-	-	-	0234-0B
3104.00	cut	Sh/Clst: gy blk to dsk y brn	78.23	19.15	29.86	17.20	12.01	49.01	29.21	0116-1L
3131.00	cut	Sh/Clst: gy blk to m gy	30.91	8.12	12.86	8.12	1.81	20.98	9.93	0119-1L
3167.00	cut	S/Sst : lt gy w to drk gy	84.30	10.84	31.31	28.90	13.25	42.15	42.15	0123-1L
3184.80	ccp	S/Sst : w to lt gy to drk gy	770.57	453.46	196.61	57.08	63.42	650.07	120.50	0233-1L
3230.00	cut	Sh/Clst: gy blk	40.20	8.36	13.93	11.14	6.77	22.29	17.91	0130-1L
3410.00	cut	Sh/Clst: gy blk to dsk y brn	149.58	47.48	48.84	32.56	20.69	96.33	53.25	0182-1L
3491.00	cut	Sh/Clst: gy blk to dsk y brn	66.01	16.95	20.22	22.60	6.24	37.17	28.84	0191-1L
3671.00	cut	Sh/Clst: blk to dsk y brn	73.46	17.99	25.49	16.49	13.49	43.48	29.99	0208-3L
3730.00	swc	Sh/Clst: gy blk	150.53	54.27	46.08	30.72	19.46	100.35	50.18	0151-1L
3879.00	swc	Sh/Clst: gy blk to dsk y brn	145.26	49.52	33.01	42.92	19.81	82.54	62.73	0163-1L

Table 5 c: Concentration of EOM and Chromatographic Fraction (mg/g TOC(e)) for well NOCS 35/11-6

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
3940.00	swc	Sh/Clst: gy blk	199.12	76.33	39.82	49.78	33.19	116.16	82.97	0166-1L

Table 5 d: Composition of material extracted from the rock (%) for well NOCS 35/11-6

Depth unit of measure: m

Depth	Typ	Lithology	Sat / EOM	Aro / EOM	Asph / EOM	NSO / EOM	HC / EOM	Non-HC / EOM	Sat / Aro	HC / Non-HC	Sample
2924.00	cut	Sh/Clst: gy blk	32.12	32.12	15.23	20.53	64.24	35.76	100.00	179.63	0096-1L
2942.00	cut	Sh/Clst: gy blk to drk gy	35.02	35.02	11.28	18.68	70.04	29.96	100.00	233.77	0098-1L
3032.00	cut	Sh/Clst: gy blk to drk gy	30.98	36.03	13.13	19.87	67.00	33.00	85.98	203.06	0108-1L
3072.70	oil	bulk	62.06	28.46	4.18	5.31	90.51	9.49	218.08	954.24	0234-0B
3104.00	cut	Sh/Clst: gy blk to dsk y brn	24.48	38.17	21.99	15.35	62.66	37.34	64.13	167.78	0116-1L
3131.00	cut	Sh/Clst: gy blk to m gy	26.28	41.61	26.28	5.84	67.88	32.12	63.16	211.36	0119-1L
3167.00	cut	S/Sst : lt gy w to drk gy	12.86	37.14	34.29	15.71	50.00	50.00	34.62	100.00	0123-1L
3184.80	ccp	S/Sst : w to lt gy to drk gy	58.85	25.51	7.41	8.23	84.36	15.64	230.65	539.47	0233-1L
3230.00	cut	Sh/Clst: gy blk	20.79	34.65	27.72	16.83	55.45	44.55	60.00	124.44	0130-1L
3410.00	cut	Sh/Clst: gy blk to dsk y brn	31.75	32.65	21.77	13.83	64.40	35.60	97.22	180.89	0182-1L
3491.00	cut	Sh/Clst: gy blk to dsk y brn	25.68	30.63	34.23	9.46	56.31	43.69	83.82	128.87	0191-1L
3671.00	cut	Sh/Clst: blk to dsk y brn	24.49	34.69	22.45	18.37	59.18	40.82	70.59	145.00	0208-3L
3730.00	swc	Sh/Clst: gy blk	36.05	30.61	20.41	12.93	66.67	33.33	117.78	200.00	0151-1L
3879.00	swc	Sh/Clst: gy blk to dsk y brn	34.09	22.73	29.55	13.64	56.82	43.18	150.00	131.58	0163-1L

Table 5 d: Composition of material extracted from the rock (%) for well NOCS 35/11-6

Depth unit of measure: m

Depth	Typ	Lithology	Sat / EOM	Aro / EOM	Asph / EOM	NSO / EOM	HC / EOM	Non-HC / EOM	Sat / Aro	HC / Non-HC	Sample
3940.00	swc	Sh/Clst: gy blk	38.33	20.00	25.00	16.67	58.33	41.67	191.67	140.00	0166-1L

Table 6 : Saturated Hydrocarbon Ratios for well NOCS 35/11-6

Depth unit of measure: m

Depth	Typ	Lithology	Pristane nC17	Pristane Phytane	Pristane + Phytane nC17 + nC18	Phytane nC18	CPI	Sample
2924.00	cut	Sh/Clst: gy blk	1.19	1.90	0.98	0.74	1.09	0096-1L
2942.00	cut	Sh/Clst: gy blk to drk gy	1.21	1.82	1.02	0.80	1.02	0098-1L
3032.00	cut	Sh/Clst: gy blk to drk gy	1.25	1.95	1.04	0.78	1.01	0108-1L
3072.70	oil	bulk	1.61	1.95	1.33	0.99	1.31	0234-0B
3104.00	cut	Sh/Clst: gy blk to dsk y brn	1.16	2.29	0.90	0.59	1.05	0116-1L
3131.00	cut	Sh/Clst: gy blk to m gy	1.28	3.09	0.89	0.46	1.09	0119-1L
3167.00	cut	S/Sst : lt gy w to drk gy	-	-	-	-	-	0123-1L
3184.80	ccp	S/Sst : w to lt gy to drk gy	0.46	1.50	0.36	0.27	1.07	0233-1L
3230.00	cut	Sh/Clst: gy blk	1.32	4.51	0.84	0.32	1.13	0130-1L
3410.00	cut	Sh/Clst: gy blk to dsk y brn	0.57	2.66	0.43	0.27	1.02	0182-1L
3491.00	cut	Sh/Clst: gy blk to dsk y brn	1.00	4.72	0.61	0.22	1.13	0191-1L
3671.00	cut	Sh/Clst: blk to dsk y brn	0.64	2.24	0.49	0.32	1.07	0208-3L
3730.00	swc	Sh/Clst: gy blk	0.42	2.97	0.28	0.14	1.13	0151-1L
3879.00	swc	Sh/Clst: gy blk to dsk y brn	0.29	2.43	0.20	0.12	1.21	0163-1L

Table 6 : Saturated Hydrocarbon Ratios for well NOCS 35/11-6

Depth unit of measure: m

Depth	Typ	Lithology	Pristane / nC17	Pristane / Phytane	Pristane + Phytane / nC17 + nC18	Phytane / nC18	CPI	Sample
3940.00	swc	Sh/Clst: gy blk	0.26	2.17	0.19	0.12	1.18	0166-1L

Table 7 : Aromatic Hydrocarbon Ratios for well NOCS 35/11-6

Depth unit of measure: m

Depth	Typ	Lithology	MNR	DMNR	BPhR	2/1MP	MPI1	MPI2	Rc	DBT/P	4/1MDBT	(3+2) /1MDBT	Sample
2924.00	cut	Sh/Clst: gy blk	1.13	1.60	0.11	0.84	0.60	0.62	0.76	0.25	0.77	0.32	0096-1L
2942.00	cut	Sh/Clst: gy blk to drk gy	1.09	1.59	0.11	0.84	0.62	0.63	0.77	0.30	0.71	0.35	0098-1L
3032.00	cut	Sh/Clst: gy blk to drk gy	1.16	1.55	0.10	0.83	0.56	0.59	0.74	0.27	1.18	0.45	0108-1L
3072.70	oil	bulk	2.01	1.42	-	1.65	1.25	1.48	1.15	-	-	-	0234-0B
3104.00	cut	Sh/Clst: gy blk to dsk y brn	1.21	1.81	0.16	0.78	0.48	0.54	0.69	0.27	2.23	0.94	0116-1L
3131.00	cut	Sh/Clst: gy blk to m gy	1.22	1.86	0.17	0.92	0.58	0.67	0.75	0.25	2.94	1.71	0119-1L
3167.00	cut	S/Sst : lt gy w to drk gy	1.16	2.12	0.32	1.10	0.55	0.68	0.73	0.24	6.55	5.08	0123-1L
3184.80	ccp	S/Sst : w to lt gy to drk gy	1.14	2.17	0.29	1.23	0.79	0.92	0.87	0.15	-	-	0233-1L
3230.00	cut	Sh/Clst: gy blk	1.24	1.86	0.13	0.88	0.54	0.60	0.72	0.16	2.08	1.76	0130-1L
3410.00	cut	Sh/Clst: gy blk to dsk y brn	1.09	1.54	0.12	0.66	0.50	0.53	0.70	0.12	3.49	0.93	0182-1L
3491.00	cut	Sh/Clst: gy blk to dsk y brn	1.18	2.07	0.18	1.05	0.65	0.75	0.79	0.13	3.35	2.03	0191-1L
3671.00	cut	Sh/Clst: blk to dsk y brn	1.19	2.66	0.23	1.05	0.59	0.64	0.75	0.16	-	-	0208-3L
3730.00	swc	Sh/Clst: gy blk	1.22	2.52	0.14	1.16	0.76	0.87	0.86	0.14	5.89	2.20	0151-1L
3879.00	swc	Sh/Clst: gy blk to dsk y brn	-	2.78	-	1.09	0.73	0.81	0.84	0.13	-	-	0163-1L
3940.00	swc	Sh/Clst: gy blk	-	1.80	-	1.04	0.75	0.84	0.85	0.12	-	-	0166-1L

Table 8 : Thermal Maturity Data for well NOCS 35/11-6

Depth unit of measure: m

Depth	Typ	Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation	Spore Fluorescence Colour	SCI	Tmax (°C)	Sample
1000.00	cut	bulk	0.15	3	0.01	-	-	-	0057-0B
1080.00	cut	bulk	0.33	4	0.06	-	-	-	0058-0B
1080.00	cut	Sh/Clst: lt or to lt brn gy	-	-	-	-	3.0-3.5	421	0058-1L
1160.00	cut	bulk	0.34	3	0.02	-	-	-	0059-0B
1240.00	cut	bulk	0.25	7	0.02	-	-	-	0060-0B
1320.00	cut	Sh/Clst: lt or to brn gy to lt ol gy	-	-	-	-	4.0	430	0061-1L
1400.00	cut	bulk	0.37	9	0.03	-	-	-	0062-0B
1560.00	cut	bulk	NDP	-	-	-	-	-	0064-0B
1720.00	cut	bulk	0.61	3	0.04	-	-	-	0066-0B
1800.00	cut	Sh/Clst: m gy to brn gy	-	-	-	-	4.5	435	0067-2L
1880.00	cut	bulk	0.42	3	0.02	-	-	-	0068-0B
2000.00	swc	bulk	0.83	6	0.06	-	-	-	0001-0B
2097.00	swc	bulk	NDP	-	-	-	-	-	0005-0B

Table 8 : Thermal Maturity Data for well NOCS 35/11-6

Depth unit of measure: m

Depth	Typ	Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation	Spore Fluorescence Colour	SCI	Tmax (°C)	Sample
2205.00	swc	bulk	0.72	4	0.03	-	-	-	0009-0B
2313.00	swc	bulk	0.57	3	0.01	-	-	-	0013-0B
2405.00	swc	bulk	0.56	3	0.07	-	-	-	0016-0B
2405.00	swc	Sh/Clst: gy blk	-	-	-	-	5.5-6.0	426	0016-1L
2532.50	swc	bulk	0.79	3	0.09	-	-	-	0020-0B
2623.50	swc	bulk	0.85	10	0.08	-	-	-	0022-0B
2711.00	swc	bulk	0.82	13	0.09	-	-	-	0025-0B
2802.00	swc	bulk	0.61	2	0.00	-	-	-	0031-0B
2802.00	swc	Sh/Clst: gy blk	-	-	-	-	5.5	429	0031-1L
2905.00	swc	bulk	0.52	3	0.10	-	-	-	0039-0B
2905.00	swc	Sh/Clst: gy blk	-	-	-	-	5.5	434	0039-1L
2960.00	swc	Sh/Clst: gy blk to drk y brn	-	-	-	-	5.5	430	0042-1L
3012.00	swc	bulk	0.58	6	0.04	-	-	-	0044-0B
3055.00	swc	Sh/Clst: gy blk	-	-	-	-	6.0(?)	439	0046-1L

Table 8 : Thermal Maturity Data for well NOCS 35/11-6

Depth unit of measure: m

Depth	Typ	Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation	Spore Fluorescence Colour	SCI	Tmax (°C)	Sample
3093.00	swc	bulk	0.64	4	0.01	-	-	-	0048-0B
3115.00	swc	Sh/Clst: gy blk	-	-	-	-	7.0(?)	441	0049-1L
3202.00	swc	bulk	0.71	3	0.04	-	-	-	0052-0B
3202.00	swc	Sh/Clst: gy blk	-	-	-	-	7.0	446	0052-1L
3295.00	swc	bulk	0.61	5	0.03	-	-	-	0056-0B
3295.00	swc	Sh/Clst: gy blk to drk y brn	-	-	-	-	7.0(??)	446	0056-1L
3418.00	swc	bulk	0.64	4	0.06	-	-	-	0140-0B
3418.00	swc	Sh/Clst: gy blk to blk	-	-	-	-	8.0-8.5	450	0140-1L
3501.50	swc	bulk	0.65	8	0.05	-	-	-	0146-0B
3501.50	swc	Sh/Clst: blk to gy blk	-	-	-	-	7.0-7.5	451	0146-1L
3714.50	swc	bulk	NDP	-	-	-	-	-	0147-0B
3744.50	swc	Sh/Clst: gy blk	-	-	-	-	8.5	452	0155-1L
3794.50	swc	bulk	NDP	-	-	-	-	-	0160-0B
3879.00	swc	Sh/Clst: gy blk to dsk y brn	-	-	-	-	9.0	452	0163-1L

Table 8 : Thermal Maturity Data for well NOCS 35/11-6

Depth unit of measure: m

Depth	Typ	Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation	Spore Fluorescence Colour	SCI	Tmax (°C)	Sample
3892.50	swc	bulk	0.78	5	0.10	-	-	-	0164-0B
3942.50	swc	bulk	NDP	-	-	-	-	-	0167-0B

Table 9 : Visual Kerogen Composition Data for well NOCS 35/11-6

Depth unit of measure: m

Depth	Typ	Lithology	LIPT %	Amor L	LipDet	Spo/Pol	Cuticl	Resin	Algae	Dinofl	Acrit	BitL	INERT %	Fusin	SemFus	IntDet	Micrin	Sclero	BitI	VITR %	Telin	ColCol	VitDet	AmorV	BitV	Sample
1080.00	cut	Sh/Clst: lt or to lt brn gy	50	*	*	**			*	*		*	15			*				35	**		*		?	0058-1L
1320.00	cut	Sh/Clst: lt or to brn gy to lt ol gy	80	*	*	**			*	*			15			*				5	*		**			0061-1L
1800.00	cut	Sh/Clst: m gy to brn gy	85	**	**	*			*	*			5			*				10			*			0067-2L
2405.00	swc	Sh/Clst: gy blk	10			**			*	*			60	**	**	*				30			*			0016-1L
2802.00	swc	Sh/Clst: gy blk	70	**	**	*			*	*		*	20	**	**	*				10	**	*	*			0031-1L
2905.00	swc	Sh/Clst: gy blk	90	**	*	*			*	*		?	5	*		*				5	*		**			0039-1L
2960.00	swc	Sh/Clst: gy blk to drk y brn	80	**	*	*			*	*		?	15	*		*				5	*		**			0042-1L
3055.00	swc	Sh/Clst: gy blk	85	**	*	*	*		*	*			10	*		*				5	*		**			0046-1L
3115.00	swc	Sh/Clst: gy blk	55	*		*			*				15	*	**	*				30	*	*	*			0049-1L
3202.00	swc	Sh/Clst: gy blk	10	**		*			*	*			40	*	**	*				50	**	*	*			0052-1L
3295.00	swc	Sh/Clst: gy blk to drk y brn	65	*		*	*		**	*		?	10		**	*				25	**	*	*	*	?	0056-1L
3418.00	swc	Sh/Clst: gy blk to blk	60	**		*			*				20	*	**	*				20	**	*	*			0140-1L

Table 9 : Visual Kerogen Composition Data for well NOCS 35/11-6

Depth unit of measure: m

Depth	Typ	Lithology	LIPT %	Amor L	LipDet	Sp/Pol	Cutic	Resin	Alga	Dinofl	Acrit	Bit L	INERT %	Fusin	Sem Fus	Sint Det	Micrin	Sclero	Bit I	VITR %	Telin	Colin	Vit Det	Amor V	Bit V	Sample
3501.50	swc	Sh/Clst: blk to gy blk	45	**	*	**	*		*				15	*	**	*				40	**	*	*			0146-1L
3744.50	swc	Sh/Clst: gy blk	50			*	**		?				5		*					45	**	*				0155-1L
3879.00	swc	Sh/Clst: gy blk to dsk y brn	40	*		**			*				30	*		*				30	**	*				0163-1L

Table 10a: Tabulation of carbon isotope data for EOM/EOM - fractions for well NOCS 35/11-6

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Saturated	Aromatic	NSO	Asphaltenes	Kerogen	Sample
2924.00	cut	Sh/Clst	-30.88	-31.63	-31.03	-30.47	-29.56	-	0096-1
3032.00	cut	Sh/Clst	-28.30	-29.63	-28.71	-27.90	-27.07	-	0108-1
3072.70	oil	bulk	-28.23	-28.68	-27.35	-27.01	-27.40	-	0234-0
3131.00	cut	Sh/Clst	-25.44	-27.78	-25.52	-25.45	-24.47	-	0119-1
3184.80	ccp	S/Sst	-27.94	-28.39	-27.09	-26.89	-27.01	-	0233-1
3230.00	cut	Sh/Clst	-	-27.30	-24.49	-24.14	-23.57	-	0130-1
3410.00	cut	Sh/Clst	-27.95	-29.17	-27.76	-27.54	-27.18	-	0182-1
3491.00	cut	Sh/Clst	-24.08	-26.06	-24.05	-24.34	-23.78	-	0191-1
3671.00	cut	Sh/Clst	-	-27.12	-26.57	-26.83	-26.78	-	0208-3
3730.00	swc	Sh/Clst	-27.05	-27.57	-26.57	-26.72	-26.22	-	0151-1
3879.00	swc	Sh/Clst	-	-28.78	-25.28	-25.61	-25.33	-	0163-1

Table 10b: Tabulation of cv values from carbon isotope data for well NOCS 35/11-6

Depth unit of measure: m

Depth	Typ	Lithology	Saturated	Aromatic	cv value	Sample
2924.00	cut	Sh/Clst	-31.63	-31.03	-0.51	0096-1
3032.00	cut	Sh/Clst	-29.63	-28.71	-0.42	0108-1
3072.70	oil	bulk	-28.68	-27.35	0.19	0234-0
3131.00	cut	Sh/Clst	-27.78	-25.52	1.98	0119-1
3184.80	ccp	S/Sst	-28.39	-27.09	0.04	0233-1
3230.00	cut	Sh/Clst	-27.30	-24.49	3.05	0130-1
3410.00	cut	Sh/Clst	-29.17	-27.76	0.52	0182-1
3491.00	cut	Sh/Clst	-26.06	-24.05	0.89	0191-1
3671.00	cut	Sh/Clst	-27.12	-26.57	-2.02	0208-3
3730.00	swc	Sh/Clst	-27.57	-26.57	-0.88	0151-1
3879.00	swc	Sh/Clst	-28.78	-25.28	5.04	0163-1

Table 11a: Variation in Triterpane Distribution (peak height) SIR for Well NOCS 35/11-6

Depth unit of measure: m

Depth	Lithology	B/A	B/B+A	B B+E+F	C/E	C/C+E	X/E	Z/E	Z/C	Z/Z+E	Q/E	E/E+F	C+D C+D+E+F	D+F/C+E	J1 J1+J2%	Sample
2924.00	Sh/Clst	1.58	0.61	0.18	0.55	0.35	0.05	0.02	0.04	0.02	0.03	0.84	0.35	0.18	56.66	0096-1
3032.00	Sh/Clst	1.60	0.62	0.14	0.56	0.36	0.06	0.60	1.09	0.38	0.03	0.86	0.36	0.16	59.01	0108-1
3072.70	oil	1.48	0.60	0.13	0.51	0.34	0.06	0.36	0.71	0.26	0.04	0.88	0.34	0.15	59.17	0234-0
3131.00	Sh/Clst	2.91	0.74	0.19	0.63	0.39	0.06	0.28	0.45	0.22	0.02	0.86	0.38	0.15	60.12	0119-1
3184.80	S/Sst	0.32	0.24	0.10	0.36	0.26	0.32	0.13	0.37	0.12	0.13	0.92	0.27	0.10	62.09	0233-1
3230.00	Sh/Clst	7.73	0.89	0.23	0.66	0.40	0.07	0.05	0.08	0.05	0.01	0.82	0.39	0.20	59.53	0130-1
3410.00	Sh/Clst	0.60	0.38	0.10	0.37	0.27	0.14	0.02	0.06	0.02	0.04	0.92	0.27	0.09	59.82	0182-1
3491.00	Sh/Clst	2.76	0.73	0.20	0.50	0.33	0.15	0.03	0.06	0.03	0.04	0.90	0.33	0.10	61.04	0191-1
3671.00	Sh/Clst	1.16	0.54	0.18	0.68	0.40	0.08	0.09	0.13	0.08	0.11	0.89	0.41	0.12	59.28	0208-3
3730.00	Sh/Clst	0.81	0.45	0.19	0.68	0.41	0.49	0.13	0.19	0.12	0.19	0.92	0.41	0.09	61.54	0151-1
3879.00	Sh/Clst	0.53	0.35	0.21	0.61	0.38	1.14	0.15	0.24	0.13	0.26	0.90	0.39	0.13	60.30	0163-1

Table 11b: Variation in Sterane Distribution (peak height) SIR for Well NOCS 35/11-6

Depth unit of measure: m

Depth	Lithology	Ratio1	Ratio2	Ratio3	Ratio4	Ratio5	Ratio6	Ratio7	Ratio8	Ratio9	Ratio10	Sample
2924.00	Sh/Clst	0.42	30.79	41.70	1.43	0.54	0.23	0.17	0.26	0.44	0.52	0096-1
3032.00	Sh/Clst	0.52	38.48	60.18	1.03	0.66	0.19	0.15	0.43	0.63	1.23	0108-1
3072.70	oil	0.59	39.44	65.08	0.93	0.70	0.19	0.14	0.48	0.65	1.54	0234-0
3131.00	Sh/Clst	0.64	39.91	61.51	0.90	0.67	0.30	0.24	0.44	0.66	1.33	0119-1
3184.80	S/Sst	0.89	55.12	78.60	1.31	0.77	0.46	0.33	0.65	1.23	4.09	0233-1
3230.00	Sh/Clst	0.63	39.78	56.42	0.76	0.62	0.21	0.16	0.39	0.66	1.08	0130-1
3410.00	Sh/Clst	0.84	49.97	75.87	1.32	0.76	0.37	0.28	0.61	1.00	3.14	0182-1
3491.00	Sh/Clst	0.87	49.39	72.72	1.27	0.73	0.47	0.38	0.57	0.98	2.63	0191-1
3671.00	Sh/Clst	0.61	36.89	64.30	1.30	0.71	0.31	0.23	0.47	0.58	1.43	0208-3
3730.00	Sh/Clst	0.81	48.02	76.63	1.11	0.77	0.42	0.31	0.62	0.92	3.15	0151-1
3879.00	Sh/Clst	0.77	47.56	78.24	0.89	0.79	0.51	0.41	0.64	0.91	3.43	0163-1

Ratio1: a / a + j
Ratio2: q / q + t * 100%
Ratio3: 2(r + s)/(q + t + 2(r + s)) * 100%
Ratio4: a + b + c + d / h + k + l + n
Ratio5: r + s / r + s + q

Ratio6: u + v / u + v + q + r + s + t
Ratio7: u + v / u + v + i + m + n + q + r + s + t
Ratio8: r + s / q + r + s + t
Ratio9: q / t
Ratio10: r + s / t

Table 11c: Variation in Triaromatic Sterane Distribution for Well Well NOCS 35/11-6

Depth unit of measure: m

Depth	Lithology	Ratio1	Ratio2	Ratio3	Ratio4	Ratio5	Sample
2924.00	Sh/Clst	0.35	0.27	0.11	0.13	0.15	0096-1
3032.00	Sh/Clst	0.30	0.25	0.12	0.13	0.18	0108-1
3072.70	oil	0.22	0.18	0.08	0.09	0.13	0234-0
3131.00	Sh/Clst	0.47	0.41	0.22	0.23	0.33	0119-1
3184.80	S/Sst	0.79	0.77	0.58	0.55	0.69	0233-1
3230.00	Sh/Clst	0.54	0.41	0.26	0.28	0.42	0130-1
3410.00	Sh/Clst	0.60	0.56	0.39	0.35	0.57	0182-1
3491.00	Sh/Clst	0.88	0.85	0.72	0.73	0.82	0191-1
3671.00	Sh/Clst	0.52	0.46	0.22	0.24	0.30	0208-3
3730.00	Sh/Clst	0.93	0.91	0.82	0.82	0.88	0151-1
3879.00	Sh/Clst	0.91	0.90	0.77	0.78	0.83	0163-1

Ratio1: a1 / a1 + g1
Ratio2: b1 / b1 + g1
Ratio3: a1 + b1 / a1 + b1 + c1 + d1 + e1 + f1 + g1
Ratio4: a1 / a1 + e1 + f1 + g1
Ratio5: a1 / a1 + d1

Table 11d: Variation in Monoaromatic Sterane Distribution for Well NOCS 35/11-6

Depth unit of measure: m

Depth	Lithology	Ratio1	Ratio2	Ratio3	Ratio4	Sample
2924.00	Sh/Clst	0.20	0.12	0.12	0.10	0096-1
3032.00	Sh/Clst	0.27	0.17	0.15	0.12	0108-1
3072.70	oil	0.28	0.16	0.17	0.13	0234-0
3131.00	Sh/Clst	0.28	0.18	0.17	0.14	0119-1
3184.80	S/Sst	0.60	0.44	0.44	0.36	0233-1
3230.00	Sh/Clst	0.24	0.13	0.14	0.11	0130-1
3410.00	Sh/Clst	0.47	0.39	0.29	0.23	0182-1
3491.00	Sh/Clst	0.34	0.28	0.26	0.24	0191-1
3671.00	Sh/Clst	0.22	0.14	0.14	0.11	0208-3
3730.00	Sh/Clst	0.33	0.33	0.21	0.21	0151-1
3879.00	Sh/Clst	0.32	0.38	0.21	0.27	0163-1

Ratio1: A1 / A1 + E1
Ratio2: B1 / B1 + E1
Ratio3: A1 / A1 + E1 + G1
Ratio4: A1+B1 / A1+B1+C1+D1+E1+F1+G1+H1+I1

Table 11e: Aromatisation of Steranes for Well NOCS 35/11-6

Depth unit of measure: m

Depth	Lithology	Ratio1	Ratio2	Sample
2924.00	Sh/Clst	0.46	0.79	0096-1
3032.00	Sh/Clst	0.39	0.89	0108-1
3072.70	oil	0.55	0.79	0234-0
3131.00	Sh/Clst	0.38	0.92	0119-1
3184.80	S/Sst	0.48	0.90	0233-1
3230.00	Sh/Clst	0.33	0.94	0130-1
3410.00	Sh/Clst	0.31	0.95	0182-1
3491.00	Sh/Clst	0.40	0.95	0191-1
3671.00	Sh/Clst	0.52	0.80	0208-3
3730.00	Sh/Clst	0.65	1.00	0151-1
3879.00	Sh/Clst	0.66	1.00	0163-1

Ratio1: $\dfrac{C1+D1+E1+F1+G1+H1+I1}{C1+D1+E1+F1+G1+H1+I1 + c1+d1+e1+f1+g1}$

Ratio2: g1 / g1 + I1

Table 11f: Raw GCMS triterpane data (peak height) SIR for Well NOCS 35/11-6 Page: 1

Depth unit of measure: m

Depth	Lithology	p	q	r	s	t	a	b	z	c	Sample
		x	d	e	f	g	h	i	j1		
		j2	k1	k2	l1	l2	m1	m2			
2924.00	Sh/Clst	554738.8	169775.5	162680.9	423322.4	83272.8	864052.0	1361180.5	123169.9	2933219.8	0096-1
		262147.0	530064.0	5336164.5	980426.5	2488465.8	1786368.0	622582.3	1195712.5		
		914780.9	1060855.5	798344.0	779687.8	618249.4	604750.0	476066.0			
3032.00	Sh/Clst	444096.0	165852.4	159950.0	455611.3	66755.3	767400.0	1225972.0	3867229.5	3557238.0	0108-1
		379104.0	600289.0	6405143.0	1009072.3	2467506.5	1682528.0	521648.0	1326424.8		
		921296.5	1350939.5	922296.9	871681.8	573036.0	771001.0	577923.0			
3072.70	oil	304186.4	151336.9	82848.0	293072.0	51758.3	474573.0	700320.0	1417616.5	2004651.5	0234-0
		256005.0	339287.0	3958295.0	529448.5	1283612.4	879339.8	236448.0	802458.0		
		553643.6	680162.8	455887.1	384456.5	258429.9	287989.0	208515.0			
3131.00	Sh/Clst	215067.0	78151.3	50530.0	348719.5	31919.5	327986.0	953584.0	1015795.4	2259971.8	0119-1
		222202.0	298255.0	3595251.5	601432.0	1489861.1	963808.9	314585.4	730158.9		
		484428.4	464789.8	313448.0	291239.6	191902.9	154737.0	111724.0			
3184.80	S/Sst	97716.0	69069.4	35473.6	71487.0	25672.0	200402.3	64668.4	68263.3	183480.0	0233-1
		166118.9	24688.0	513863.3	45408.0	183008.0	129211.1	38258.3	148432.0		
		90641.3	108086.6	69173.4	65803.4	46215.6	50359.3	35780.5			

Depth unit of measure: m

Depth	Lithology	p	q	r	s	t	a	b	z	c	Sample
		x	d	e	f	g	h	i	j1		
		j2	k1	k2	l1	l2	m1	m2			
3230.00	Sh/Clst	128250.8	51968.6	39273.2	426409.5	17750.3	226304.0	1748382.4	261456.0	3173865.0	0130-1
		351817.0	511329.5	4773525.0	1082832.0	2815405.5	1968690.5	660960.0	1412268.0		
		960087.4	693939.5	463352.9	430059.8	275184.0	194804.5	136418.6			
3410.00	Sh/Clst	250064.0	117894.5	49020.3	325975.6	38880.0	558678.0	336006.0	65400.6	1048234.0	0182-1
		379340.5	76605.5	2798685.0	255289.5	1169618.4	779744.0	143423.0	732611.5		
		491982.3	407051.5	256172.8	232985.8	147707.2	111530.0	72914.1			
3491.00	Sh/Clst	257978.3	100704.0	43704.4	490920.0	24568.0	271709.0	749422.3	87792.0	1356050.1	0191-1
		419776.0	109837.0	2708990.0	311263.0	1472448.8	980124.5	216890.4	808293.4		
		515990.7	352211.5	230193.0	197742.1	130200.0	67848.0	44914.7			
3671.00	Sh/Clst	324531.8	151081.9	96003.3	221014.4	63805.6	293328.0	341513.3	118463.9	932214.8	0208-3
		111518.0	116160.0	1371192.0	161864.0	592410.3	394903.5	89722.3	344911.0		
		236943.8	228062.8	143930.8	132810.3	90898.1	106139.5	72617.0			
3730.00	Sh/Clst	368150.8	139651.6	67554.9	252416.0	46496.0	233168.0	189952.0	96054.5	501350.4	0151-1
		358067.8	47973.5	732944.0	64496.0	341461.4	234164.0	63585.0	271488.0		
		169696.0	151292.0	94524.8	96936.0	59011.0	57158.4	46968.4			

Depth unit of measure: m

Depth	Lithology	p	q	r	s	t	a	b	z	c	Sample
		x	d	e	f	g	h	i	j1		
		j2	k1	k2	l1	l2	m1	m2			
3879.00	Sh/Clst	80605.3	37976.0	21000.4	84728.0	11352.0	83101.4	44418.8	21708.0	89353.9	0163-1
		167040.0	15719.0	146803.4	15674.6	63995.0	45734.5	19533.3	45056.9		
		29663.5	21147.2	13141.7	14893.8	6870.3	6971.7	3759.3			

Depth unit of measure: m

Depth	Lithology	u	v	a	b	c	d	e	f	g	Sample
		h	i	j	k	l	m	n	o		
		p	q	r	s	t					
2924.00	Sh/Clst	898676.1	419237.3	2024640.0	1276384.0	527488.0	563156.9	921871.3	567145.6	1386589.5	0096-1
		1238982.8	782794.3	2831792.8	934900.0	364542.0	644613.0	522124.3	464468.5		
		1438124.5	993771.0	767601.5	386738.5	2234318.5					
3032.00	Sh/Clst	748759.5	314447.4	1538864.0	925762.5	390961.0	435263.3	730585.4	440818.3	1054992.0	0108-1
		1397960.6	660107.9	1394448.5	934756.5	390880.3	505568.3	476357.9	469675.6		
		749984.0	972422.6	1328467.6	581137.0	1554709.1					
3072.70	oil	493379.4	227861.0	1152512.6	700322.5	276448.0	302288.0	519513.8	312045.5	646160.0	0234-0
		1145048.4	603382.1	793270.1	702845.0	287776.0	380515.6	473444.3	546132.4		
		506244.3	632962.0	854839.4	640500.5	972016.0					
3131.00	Sh/Clst	409656.3	146468.9	680055.5	403497.8	175220.5	186951.7	288849.9	167585.1	288080.8	0119-1
		773041.7	233334.8	380811.5	506116.3	189124.8	119595.5	145792.9	154661.9		
		178793.6	284170.8	347001.9	221850.8	427887.0					
3184.80	S/Sst	170289.9	74905.1	338361.6	191053.4	75080.5	81901.8	143404.5	87138.3	61828.4	0233-1
		251551.1	121416.3	40284.4	152642.1	55721.2	32852.9	62739.0	79574.1		
		23937.1	56127.4	99100.6	87885.0	45708.0					

Depth unit of measure: m

Depth	Lithology	u	v	a	b	c	d	e	f	g	Sample
		h	i	j	k	l	m	n	o		
		p	q	r	s	t					
3230.00	Sh/Clst	249305.3	95505.8	536670.9	329213.3	152352.0	163742.2	243492.6	142321.5	246675.4	0130-1
		741440.1	226608.1	313891.6	485006.0	202743.5	115051.9	119678.7	135737.4		
		183767.0	314651.5	294108.3	218005.1	476378.7					
3410.00	Sh/Clst	352244.8	142305.7	723328.0	431541.8	183411.2	184966.4	188009.6	122148.1	169118.6	0182-1
		561109.5	247596.9	139244.9	345810.5	120392.0	77131.6	122450.3	130370.5		
		52927.9	166406.9	276205.0	247194.0	166597.3					
3491.00	Sh/Clst	228658.8	106955.2	336556.2	192920.9	86365.4	77626.3	89389.4	55195.5	66202.7	0191-1
		266028.9	115005.4	48542.3	171423.4	70185.9	28431.1	39389.8	56985.3		
		21475.1	79590.8	108651.9	106175.8	81555.9					
3671.00	Sh/Clst	270286.9	113678.0	506402.0	324562.7	118258.3	134236.3	216794.9	131840.0	237128.6	0208-3
		368550.3	222687.0	327802.7	239686.6	92080.5	92113.9	134869.3	144478.4		
		160456.0	168421.3	230876.8	180334.4	288190.4					
3730.00	Sh/Clst	241339.3	92774.0	356127.2	209954.3	94256.0	95009.7	165302.9	83872.4	97652.6	0151-1
		312325.3	148293.3	85467.1	201326.9	83334.3	42868.1	81896.4	93247.3		
		36986.3	83408.8	149436.4	135267.5	90291.5					

Depth unit of measure: m

Depth	Lithology	u	v	a	b	c	d	e	f	g	Sample
		h	i	j	k	l	m	n	o		
		p	q	r	s	t					
3879.00	Sh/Clst	56919.1	27938.1	45088.7	28474.8	13171.8	10105.7	18775.5	14614.3	17096.4	0163-1
		51565.8	20649.0	13532.0	32832.0	12609.0	8345.6	12380.3	12316.3		
		5827.1	13882.5	23243.1	29241.4	15309.6					

Table 11h: Raw GCMS triaromatic sterane data (peak height) for Well NOCS 35/11-6

Depth unit of measure: m

Depth	Lithology	a1	b1	c1	d1	e1	f1	g1	Sample
2924.00	Sh/Clst	1829842.0	1299157.0	3997803.0	10399408.0	3660364.0	4790188.5	3434799.5	0096-1
3032.00	Sh/Clst	1076136.0	834474.5	1901829.5	4771138.5	2918553.5	1963200.0	2569359.0	0108-1
3072.70	oil	266515.0	205972.6	582051.3	1792533.8	1076376.0	756091.9	921734.4	0234-0
3131.00	Sh/Clst	416688.9	326437.3	346963.4	861539.8	547972.0	385501.3	464885.3	0119-1
3184.80	S/Sst	733839.3	655603.0	102729.5	325187.0	242946.4	153356.8	196586.8	0233-1
3230.00	Sh/Clst	522656.0	305408.0	306332.0	714198.0	538326.4	336928.0	445042.5	0130-1
3410.00	Sh/Clst	927269.9	782149.8	256208.0	711170.0	723940.3	340996.0	622223.2	0182-1
3491.00	Sh/Clst	358880.7	275499.1	34383.9	80782.3	59801.9	21893.4	48162.5	0191-1
3671.00	Sh/Clst	607115.9	487174.4	568688.0	1411173.4	685942.8	685686.8	568813.9	0208-3
3730.00	Sh/Clst	499572.1	390531.5	23699.2	66138.6	41752.0	29392.0	38841.6	0151-1
3879.00	Sh/Clst	235147.2	191770.4	19009.9	46536.0	25432.0	16761.1	22384.0	0163-1

Table 11i: Raw GCMS monoaromatic sterane data (peak height) for Well NOCS 35/11-6

Depth unit of measure: m

Depth	Lithology	a1	b1	c1	d1	e1	f1	g1	h1	i1	Sample
2924.00	Sh/Clst	1709071.0	883664.5	2935781.5	2707975.8	6690801.0	994428.0	5384614.5	3050318.3	924209.0	0096-1
3032.00	Sh/Clst	818862.0	471115.8	1267216.0	891941.0	2223829.0	400911.0	2517412.8	1564803.1	324461.5	0108-1
3072.70	oil	631176.0	309216.0	987442.9	710161.2	1628449.3	283200.0	1496333.3	1001585.6	250162.0	0234-0
3131.00	Sh/Clst	175046.4	96421.1	188044.8	166122.6	445441.1	92692.0	408595.4	266645.3	41164.0	0119-1
3184.80	S/Sst	341829.0	181415.3	151489.3	113961.6	230633.6	69009.8	213097.6	127145.6	22651.3	0233-1
3230.00	Sh/Clst	97414.8	44858.6	138425.3	103954.7	302298.3	81770.5	289896.7	195712.2	30728.0	0130-1
3410.00	Sh/Clst	212868.6	151667.0	221025.0	149434.3	237468.2	59795.6	295095.1	211110.3	32063.3	0182-1
3491.00	Sh/Clst	29946.7	22637.8	29604.0	12032.0	59151.8	16231.5	27564.7	18707.7	2444.8	0191-1
3671.00	Sh/Clst	336292.9	193192.4	622532.6	502738.6	1206454.8	194176.9	929752.0	583690.6	144946.8	0208-3
3730.00	Sh/Clst	49191.0	49222.0	55566.0	42490.0	99253.1	27573.1	88803.0	57644.5	0.0	0151-1
3879.00	Sh/Clst	41890.1	53313.5	39334.0	31019.4	87283.8	27233.4	71936.6	0.0	0.0	0163-1