

DATE: 92/01/01

WIRELINE TEST DATA/INTERPRETATION REPORT

7122/4-1

REFERENCE LOG: ZDL

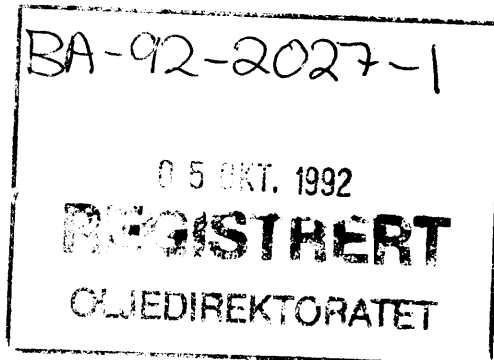
RKB: 23.5m

TEST	DEPTH m Rkb	DEPTH m ss	IHP (psi)	DRAWDOWN (psi)	SIP (psi)	EMW (FORMATION)	FHP (psi)	EMW HP	PERM (md)	COMMENTS
60	2327,5	2304	4207,5	3614	3699,7	9,4	4207,9	10,6	20,48	RECOVERED SEGREGATED SAMPLE TOP(FILLED FIRST): 10 L WATER Rw = .047 at 17.5 deg C BOTTOM(FILLED SECOND):3 L WATER Rw = .0488 at 17.5 deg C TRACE GAS WHEN CHAMBER OPEN C1=8000 ppm, C2=1000ppm C3=400ppm,IC4/NC4=70/90ppm
61	2975,6	2952,1	5354	1190		0,0	5359	10,5		NOTE: Pressure still building when shut in to attempt sample, NO RECOVERY

U4-706

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Prepared for
HYDRO



**GEOCHEMICAL ANALYSIS OF TWELVE DITCH CUTTINGS SAMPLES
FROM THE INTERVALS 1940-1970 METRES AND 2205-2295 METRES
IN WELL 7122/4-1 (ESSO) AND OF SIX STANDARDS**

Report No. 5835

April 1992

TABLE 1
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

JOB 5835				
GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY	GROSS LITHOLOGIC DESCRIPTION	G S A COLOUR CODE	TOTAL ORGANIC CARBON (Wt. %)
WELL: 7122/4-1				
5835-001	1940-1950m	A100% CLAYSTONE - platy, mod hard, non-calc, sl silty, sl pyritic, dark grey to medium dark grey.	N3 N4	- 0.86
5835-002	1950-1960m	A100% CLAYSTONE - as 5835-001A, sig cavings, dark grey to medium dark grey.	N3 N4	- 1.99
5835-003	1960-1970m	A100% CLAYSTONE - as 5835-001A, dark grey to medium dark grey.	N3 N4	- 2.53
5835-004	2205-2210m	A 95% CLAYSTONE - platy, mod hard, v sl calc, silty, dark grey to medium dark grey. B 5% Sandstone.	N3 N4	- 2.88, 2.87
5835-005	2215-2220m	A 98% CLAYSTONE - as 5835-004A, dark grey to medium dark grey. B 2% Sandstone.	N3 N4	- 3.01
5835-006	2225-2230m	A100% CLAYSTONE - as 5835-004A, dark grey to medium dark grey.	N3 N4	- 4.12
5835-007	2235-2240m	A100% CLAYSTONE - as 5835-004A, dark grey to medium dark grey.	N3 N4	- 4.07
5835-008	2245-2250m	A100% CLAYSTONE - platy, mod hard, non-calc, partly silty, greyish black to dark grey.	N2 N3	- 4.76
5835-009	2260-2265m	A100% CLAYSTONE - as 5835-008A, greyish black to dark grey.	N2 N3	- 9.77
5835-010	2270-2275m	A100% CLAYSTONE - as 5835-008A, greyish black to dark grey.	N2 N3	- 9.92
5835-011	2280-2285m	A100% CLAYSTONE - as 5835-008A, greyish black to dark grey.	N2 N3	- 10.20
5835-012	2290-2295m	A100% CLAYSTONE - as 5835-008A, greyish black to dark grey.	N2 N3	- 11.80
5835-013	STD 2107m	A100% CLAYSTONE - platy, mod hard, non-calc, silty, micromicaceous, dark brownish grey.	5YR3/1	7.97
5835-014	STD 2115m	A100% CLAYSTONE - as 5835-013A, dark brownish grey.	5YR3/1	9.70, 9.74
5835-015	STD 2120m	A100% CLAYSTONE - as 5835-013A, dark brownish grey.	5YR3/1	7.62

Abbreviations = arenaceous, argillaceous, calcareous, Cut, dolomite, Fluorescence, foraminifera fossiliferous, Lost Circulation Material, moderately, occasionally, slightly, very

TABLE 2b
STANDARD PYROLYSIS DATA

JOB 5835								
GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY	ORGANIC CARBON (%)	S0 (mg/g)	S1 (mg/g)	S2 (mg/g)	PRODN INDEX	HYDGN INDEX	TMAX (°C)

WELL: 7122/4-1

5835-002A	1950-1960m	1.85	0.20	0.39	2.71	0.12	146.5	435
5835-004A	2205-2210m	2.62	0.05	0.26	4.06	0.06	155.0	441
5835-005A	2215-2220m	2.72	0.08	0.57	4.55	0.11	167.3	441
5835-006A	2225-2230m	3.81	0.05	0.65	7.86	0.08	206.3	445
5835-007A	2235-2240m	3.76	0.05	0.63	7.08	0.08	188.3	446
5835-008A	2245-2250m	4.23	0.08	0.60	8.16	0.07	192.9	449
5835-009A	2260-2265m	8.95	0.12	0.89	14.38	0.06	160.7	446
5835-010A	2270-2275m	9.00	0.09	1.06	14.64	0.07	162.7	447
5835-011A	2280-2285m	9.67	0.11	0.46	14.92	0.03	154.3	450
5835-012A	2290-2295m	10.90	0.10	0.97	17.95	0.05	164.7	442
5835-013A	STD 2107m	7.63	0.05	0.52	13.91	0.04	182.3	424
5835-014A	STD 2115m	8.86	0.05	0.42	17.14	0.02	193.5	415
5835-015A	STD 2120m	7.28	0.07	0.53	12.65	0.04	173.8	435
5835-016A	STD 2125m	8.21	0.07	0.64	14.68	0.04	178.8	417
5835-017A	STD 2132m	8.19	0.08	0.53	16.77	0.03	204.8	431
5835-018A	STD 2137m	10.20	0.10	0.83	20.90	0.04	204.9	416

EXTRACTED LITHOLOGIES

PRODUCTION INDEX = $S1 / (S0 + S1 + S2)$ HYDROGEN INDEX = $100 \times S2 / TOC$
S0 : 100°C (180secs) S1 : 300°C (180secs) S2 : 25°C / 10min + 1 min 550°C

TABLE 3a
ROCKEVAL PYROLYSIS DATA

B 5835									
GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY	TOC (%)	S1 (mg/g)	S2 (mg/g)	S3 (mg/g)	PRODUCTION INDEX	HYDROGEN INDEX	OXYGEN INDEX	TMAX (°C)

WELL: 7122/4-1

5835-002A	1950-1960m	1.99	0.43	2.74	0.99	0.14	137.7	49.7	439
5835-004A	2205-2210m	2.88	1.20	4.98	0.96	0.19	172.9	33.3	445
5835-005A	2215-2220m	3.01	1.29	5.62	0.79	0.19	186.7	26.2	448
5835-006A	2225-2230m	4.12	1.87	9.04	0.62	0.17	219.4	15.0	449
5835-007A	2235-2240m	4.07	1.91	9.27	0.60	0.17	227.8	14.7	449
5835-008A	2245-2250m	4.76	3.00	10.48	0.72	0.22	220.2	15.1	449
5835-009A	2260-2265m	9.77	6.20	17.73	0.75	0.26	181.5	7.7	449
5835-010A	2270-2275m	9.92	6.11	16.60	1.05	0.27	167.3	10.6	452
5835-011A	2280-2285m	10.20	5.88	17.57	1.47	0.25	172.3	14.4	451
5835-012A	2290-2295m	11.80	6.97	20.90	1.25	0.25	177.1	10.6	452
5835-013A	STD 2107m	7.97	3.02	14.95	1.56	0.17	187.6	19.6	432
5835-014A	STD 2115m	9.72	3.78	17.74	1.55	0.18	182.5	15.9	434
5835-015A	STD 2120m	7.62	2.91	15.35	1.44	0.16	201.4	18.9	434
5835-016A	STD 2125m	8.62	3.39	17.50	1.22	0.16	203.0	14.2	432
5835-017A	STD 2132m	9.45	3.05	17.82	1.66	0.15	188.6	17.6	434
5835-018A	STD 2137m	10.60	2.83	22.86	1.58	0.11	215.7	14.9	434

UNEXTRACTED LITHOLOGIES

PRODUCTION INDEX = $S1 / (S1 + S2)$
OXYGEN INDEX = $100 \times S3 / TOC$

HYDROGEN INDEX = $100 \times S2 / TOC$

TABLE 3b
ROCKEVAL PYROLYSIS DATA

WELL: B 5835									
GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY	TOC (%)	S1 (mg/g)	S2 (mg/g)	S3 (mg/g)	PRODUCTION INDEX	HYDROGEN INDEX	OXYGEN INDEX	TMAX (°C)

WELL: 7122/4-1

5835-002A	1950-1960m	1.85	0.15	2.30	0.86	0.06	124.3	46.5	438
5835-004A	2205-2210m	2.62	0.18	3.76	0.91	0.05	143.5	34.7	448
5835-005A	2215-2220m	2.72	0.20	4.06	0.75	0.05	149.3	27.6	447
5835-006A	2225-2230m	3.81	0.34	6.78	0.49	0.05	178.0	12.9	450
5835-007A	2235-2240m	3.76	0.38	6.89	0.44	0.05	183.2	11.7	448
5835-008A	2245-2250m	4.23	0.24	7.85	0.38	0.03	185.6	9.0	449
5835-009A	2260-2265m	8.95	0.55	13.09	0.48	0.04	146.3	5.4	452
5835-010A	2270-2275m	9.00	0.65	12.56	0.62	0.05	139.6	6.9	452
5835-011A	2280-2285m	9.67	0.25	13.34	0.75	0.02	138.0	7.8	452
5835-012A	2290-2295m	10.90	1.47	18.01	0.80	0.08	165.2	7.3	454
5835-013A	STD 2107m	7.63	0.33	13.61	1.24	0.02	178.4	16.3	433
5835-014A	STD 2115m	8.86	0.33	15.60	1.25	0.02	176.1	14.1	433
5835-015A	STD 2120m	7.28	0.55	12.49	1.30	0.04	171.6	17.9	437
5835-016A	STD 2125m	8.21	0.72	14.91	0.89	0.05	181.6	10.8	432
5835-017A	STD 2132m	8.19	0.61	16.80	1.09	0.04	205.1	13.3	434
5835-018A	STD 2137m	10.20	0.31	21.29	1.18	0.01	208.7	11.6	434

EXTRACTED LITHOLOGIES

PRODUCTION INDEX = $S1 / (S1 + S2)$
 OXYGEN INDEX = $100 \times S3 / TOC$

HYDROGEN INDEX = $100 \times S2 / TOC$

TABLE 2a
STANDARD PYROLYSIS DATA

JOB 5835								
GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY	ORGANIC CARBON (%)	S0 (mg/g)	S1 (mg/g)	S2 (mg/g)	PRODN INDEX	HYDGN INDEX	TMAX (°C)

WELL: 7122/4-1

5835-001A	1940-1950m	0.86	0.08	0.54	0.39	0.53	45.3	427
5835-002A	1950-1960m	1.99	0.06	0.66	3.12	0.17	156.8	431
5835-003A	1960-1970m	2.53	0.04	0.43	3.08	0.12	121.7	436
5835-004A	2205-2210m	2.88	0.04	0.92	5.43	0.14	188.5	431
5835-005A	2215-2220m	3.01	0.08	1.52	5.64	0.21	187.4	431
5835-006A	2225-2230m	4.12	0.06	2.41	9.52	0.20	231.1	426
5835-007A	2235-2240m	4.07	0.08	2.40	9.59	0.20	235.6	431
5835-008A	2245-2250m	4.76	0.13	2.72	9.95	0.21	209.0	434
5835-009A	2260-2265m	9.77	0.06	7.72	19.36	0.28	198.2	446
5835-010A	2270-2275m	9.92	0.10	8.52	17.25	0.33	173.9	447
5835-011A	2280-2285m	10.20	0.08	7.07	18.94	0.27	185.7	442
5835-012A	2290-2295m	11.80	0.13	8.63	23.62	0.27	200.2	452
5835-013A	STD 2107m	7.97	0.03	3.47	15.67	0.18	196.6	413
5835-014A	STD 2115m	9.72	0.03	3.33	17.75	0.16	182.6	423
5835-015A	STD 2120m	7.62	0.03	2.81	15.27	0.16	200.4	430
5835-016A	STD 2125m	8.62	0.05	3.49	17.66	0.16	204.9	413
5835-017A	STD 2132m	9.45	0.04	3.49	18.22	0.16	192.8	414
5835-018A	STD 2137m	10.60	0.16	3.34	23.79	0.12	224.4	418

UNEXTRACTED LITHOLOGIES

PRODUCTION INDEX = $S1 / (S0 + S1 + S2)$

HYDROGEN INDEX = $100 \times S2 / TOC$

S0 : 100°C (180secs)

S1 : 300°C (180secs)

S2 : 25°C / 10min + 1 min 550°C

TABLE 2b
STANDARD PYROLYSIS DATA

JOB 5835								
GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY	ORGANIC CARBON (%)	S0 (mg/g)	S1 (mg/g)	S2 (mg/g)	PRODN INDEX	HYDGN INDEX	TMAX (°C)

WELL: 7122/4-1

5835-002A	1950-1960m	1.85	0.20	0.39	2.71	0.12	146.5	435
5835-004A	2205-2210m	2.62	0.05	0.26	4.06	0.06	155.0	441
5835-005A	2215-2220m	2.72	0.08	0.57	4.55	0.11	167.3	441
5835-006A	2225-2230m	3.81	0.05	0.65	7.86	0.08	206.3	445
5835-007A	2235-2240m	3.76	0.05	0.63	7.08	0.08	188.3	446
5835-008A	2245-2250m	4.23	0.08	0.60	8.16	0.07	192.9	449
5835-009A	2260-2265m	8.95	0.12	0.89	14.38	0.06	160.7	446
5835-010A	2270-2275m	9.00	0.09	1.06	14.64	0.07	162.7	447
5835-011A	2280-2285m	9.67	0.11	0.46	14.92	0.03	154.3	450
5835-012A	2290-2295m	10.90	0.10	0.97	17.95	0.05	164.7	442
5835-013A	STD 2107m	7.63	0.05	0.52	13.91	0.04	182.3	424
5835-014A	STD 2115m	8.86	0.05	0.42	17.14	0.02	193.5	415
5835-015A	STD 2120m	7.28	0.07	0.53	12.65	0.04	173.8	435
5835-016A	STD 2125m	8.21	0.07	0.64	14.68	0.04	178.8	417
5835-017A	STD 2132m	8.19	0.08	0.53	16.77	0.03	204.8	431
5835-018A	STD 2137m	10.20	0.10	0.83	20.90	0.04	204.9	416

EXTRACTED LITHOLOGIES

PRODUCTION INDEX = $S1 / (S0 + S1 + S2)$ HYDROGEN INDEX = $100 \times S2 / TOC$
 SO : 100 °C (180secs) S1 : 300 °C (180secs) S2 : 25 °C / 10min + 1 min 550 °C

TABLE 4a
PYROLYSIS-GC GAS-OIL INDICES

JOB 5835	DEPTH/ IDENTITY	%	%	%	%	%	INDICES		
GEOCHEM SAMPLE NUMBER							C1	C2-C5	C6-C14

WELL: 7122/4-1

5835-002A	1950-1960m	6.72	33.18	50.31	9.09	0.70	1.26	0.06	39.90
5835-006A	2225-2230m	15.45	36.97	41.30	5.80	0.48	1.05	0.07	52.42
5835-008A	2245-2250m	15.06	29.30	44.35	10.60	0.70	0.95	0.03	44.36
5835-010A	2270-2275m	17.84	38.16	37.95	5.63	0.43	1.13	0.08	56.00
5835-012A	2290-2295m	21.09	28.87	44.12	5.49	0.43	1.15	0.03	49.96
5835-013A	STD 2107m	15.50	33.30	44.81	5.91	0.48	1.25	0.08	48.80
5835-015A	STD 2120m	19.93	36.33	39.44	4.04	0.26	2.15	0.05	56.26
5835-016A	STD 2125m	18.46	34.87	39.54	6.71	0.41	2.06	0.07	53.33
5835-018A	STD 2137m	20.91	27.37	43.37	7.90	0.45	1.42	0.02	48.28

TABLE 4b
 PYROLYSIS-GC GAS-OIL INDICES

JOB 5835 GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY	% C1	% C2-C6	% C7-C14	% C15+	% nC17	INDICES		
							<u>TOLUENE</u> nC8	% PHENOL	% C1-C6

WELL: 7122/4-1

5835-002A	1950-1960m	6.72	43.54	39.94	9.09	0.70	1.26	0.06	50.26
5835-006A	2225-2230m	15.45	46.04	32.23	5.80	0.48	1.05	0.07	61.49
5835-008A	2245-2250m	15.06	37.54	36.11	10.60	0.70	0.95	0.03	52.60
5835-010A	2270-2275m	17.84	46.74	29.37	5.63	0.43	1.13	0.08	64.58
5835-012A	2290-2295m	21.09	38.31	34.68	5.49	0.43	1.15	0.03	59.40
5835-013A	STD 2107m	15.50	42.52	35.59	5.91	0.48	1.25	0.08	58.02
5835-015A	STD 2120m	19.93	45.17	30.60	4.04	0.26	2.15	0.05	65.10
5835-016A	STD 2125m	18.46	43.42	30.99	6.71	0.41	2.06	0.07	61.88
5835-018A	STD 2137m	20.91	35.42	35.32	7.90	0.45	1.42	0.02	56.33

TABLE 5
KEROGEN TYPE AND MATURATION

JOB 5835	DEPTH/ IDENTITY	ORGANIC MATTER DESCRIPTION					THERMAL MATURATION	
GEOCHEM SAMPLE NUMBER		TYPES >35%; 10-35%; <10%	REMARKS	RE- WORKED (%)	PARTICLE SIZE	PRESERV- ATION	THERMAL ALTERATION INDEX	1-10 SCALE
5835-008A	2245-2250m	(Am*;Al**;H-W-I)	differentiation difficult, treat data with caution * as 5835-006A. **		F-M	G	2	4
5835-009A	2260-2265m	(Am*;-;Al-I-W-H)	differentiation difficult, treat data with caution *includes incompletely developed material.		F-M	F	2(?)	4(?)
5835-010A	2270-2275m	(Am*;-;Al-I-W-H)	differentiaton difficult, treat data with caution *as 5835-009A.		F-M/C	F	2(?)	4(?)
5835-011A	2280-2285m	(Am*;-;Al-W-I-H)	differentiation difficult, treat data with caution *as 5835-009A.		F-M/C	F-G	2(?)	4(?)
5835-012A	2290-2295m	(Am*;-;Al-W-I-H)	differentiation difficult, treat data with caution. *as 5835-009A.		F-M/C	F-G	2(?)	4(?)

Algal, Amorphous, Herbaceous, Inertinite, Resin, Wood
preservation = Poor, Fair, Good size = Fine, Medium, Coarse

TAI SCALE 1 | 1+ to 2- | 2- | 2 | 2 TO 2+ | 2+ TO 3- | 3 | 3+ | 4 | 5
1-10 SCALE 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10

TABLE 6
KEROGEN COMPOSITION

GEOCHEM SAMPLE NUMBER	DEPTH (m)	VISUAL ESTIMATE (%)				
		Am	Al	H	W	I
5835-002A	1950-1960	5	18	10	30	37
5835-004A	2205-2210	(33*	49*	5	9	4)
5835-005A	2215-2220	(54*	33*	3	7	3)
5835-006A	2225-2230	(41*	35*	10	9	5)
5835-007A	2235-2240	(49*	33*	7	8	3)
5835-008A	2245-2250	(51*	30*	9	7	3)
5835-009A	2260-2265	(76*	9	1	5	9)
5835-010A	2270-2275	(77*	9	1	4	9)
5835-011A	2280-2285	(87*	9	1	2	1)
5835-012A	2290-2295	(87*	9	1	2	1)

* See remarks, table 5 - kerogen type and maturation

() Differentiation difficult, treat data with caution

TABLE 7
CONCENTRATION (PPM) OF EXTRACTED C₁₅₊ MATERIAL IN ROCK

JOB 5835 GEOCHEM SAMPLE NUMBER	L I T H O	DEPTH/ IDENTITY	TOTAL EXTRACT	HYDROCARBONS			NON HYDROCARBONS			
				Saturates	Aromatics	TOTAL	Preciptd. Asphaltenes	Eluted NSO's	Non-Eluted NSO's	TOTAL

WELL: 7122/4-1

5835-002A		1950-1960m	1301	477	285	762	247	285	6	539
5835-004A		2205-2210m	2759	1162	543	1704	611	436	8	1055
5835-005A		2215-2220m	3018	1249	633	1882	691	435	10	1136
5835-006A		2225-2230m	3774	1587	910	2497	697	569	10	1276
5835-007A		2235-2240m	3074	1268	674	1943	681	440	11	1132
5835-008A		2245-2250m	5959	2925	1290	4216	817	915	10	1743
5835-009A		2260-2265m	12930	6952	2386	9338	2134	1436	22	3592
5835-010A		2270-2275m	12475	6840	2618	9458	1566	1407	44	3017
5835-011A		2280-2285m	12435	6319	2676	8995	1938	1469	32	3440
5835-012A		2290-2295m	13235	6676	2674	9350	2362	1511	12	3885
5835-013A		STD 2107m	8819	3084	983	4067	2474	2272	7	4752
5835-014A		STD 2115m	8039	2679	788	3467	2887	1679	6	4572
5835-015A		STD 2120m	6786	2430	753	3183	1894	1697	11	3602
5835-016A		STD 2125m	9004	2849	1010	3859	3094	2033	19	5145
5835-017A		STD 2132m	7152	1832	717	2549	3052	1542	9	4603
5835-018A		STD 2137m	7476	2179	879	3058	2589	1817	11	4418

S-shale, SS-sandstone, L-limestone, D-dolomite, M-mixed, see Table 1.

TABLE 9
SIGNIFICANT C₁₅₊ RATIOS

JOB 5835	L I T H O	DEPTH/ IDENTITY	TOC (%)	mg/g TOC						HYDROCARBONS & TOTAL EXTRACT	SATURATES AROMATICS
				TOTAL EXTRACT	SATURATES	AROMATICS	TOTAL HYDROCARBONS	ELUTED NSO's	ASPHALTENES		

WELL: 7122/4-1

5835-002A	1950-1960m	1.85	70.31	25.77	15.42	41.19	15.42	13.37	58.59	1.67
5835-004A	2205-2210m	2.62	105.31	44.34	20.72	65.06	16.64	23.31	61.78	2.14
5835-005A	2215-2220m	2.72	110.96	45.92	23.27	69.19	16.00	25.40	62.36	1.97
5835-006A	2225-2230m	3.81	99.04	41.66	23.89	65.55	14.92	18.31	66.18	1.74
5835-007A	2235-2240m	3.76	81.77	33.73	17.94	51.66	11.70	18.12	63.18	1.88
5835-008A	2245-2250m	4.23	140.87	69.16	30.51	99.67	21.64	19.33	70.75	2.27
5835-009A	2260-2265m	8.95	144.47	77.68	26.66	104.34	16.04	23.84	72.22	2.91
5835-010A	2270-2275m	9.00	138.61	76.00	29.09	105.08	15.64	17.40	75.81	2.61
5835-011A	2280-2285m	9.67	128.60	65.35	27.68	93.02	15.19	20.04	72.34	2.36
5835-012A	2290-2295m	10.90	121.42	61.24	24.53	85.78	13.86	21.67	70.64	2.50
5835-013A	STD 2107m	7.63	115.58	40.41	12.89	53.30	29.77	32.42	46.12	3.14
5835-014A	STD 2115m	8.86	90.74	30.24	8.90	39.13	18.95	32.58	43.13	3.40
5835-015A	STD 2120m	7.28	93.21	33.39	10.34	43.73	23.31	26.02	46.91	3.23
5835-016A	STD 2125m	8.21	109.67	34.70	12.30	47.00	24.76	37.68	42.86	2.82
5835-017A	STD 2132m	8.19	87.33	22.37	8.76	31.13	18.82	37.26	35.65	2.56
5835-018A	STD 2137m	10.20	73.29	21.36	8.62	29.98	17.82	25.38	40.91	2.48

S-shale, SS-sandstone, L-limestone, D-dolomite, M-mixed, see Table 1.

TABLE 10
C₁₅₊ CHROMATOGRAPHY WEIGHTS (grams)

JOB 5835	L I T H O	DEPTH/ IDENTITY	ROCK EXTRACTED	TOTAL EXTRACT	PRECIPTD. ASPHALTENES	NC5	SATURATES	AROMATICS	ELUTED NSO's	NON-ELUTED NSO's
GEOCHEM SAMPLE NUMBER										

WELL: 7122/4-1

5835-002A	1950-1960m	15.0000	0.01951	0.00371	0.01580	0.00715	0.00428	0.00428	0.00009
5835-004A	2205-2210m	12.2500	0.03380	0.00748	0.02632	0.01423	0.00665	0.00534	0.00010
5835-005A	2215-2220m	13.8100	0.04168	0.00954	0.03214	0.01725	0.00874	0.00601	0.00014
5835-006A	2225-2230m	16.6900	0.06298	0.01164	0.05134	0.02649	0.01519	0.00949	0.00017
5835-007A	2235-2240m	16.0000	0.04919	0.01090	0.03829	0.02029	0.01079	0.00704	0.00017
5835-008A	2245-2250m	15.5600	0.09272	0.01272	0.08000	0.04552	0.02008	0.01424	0.00016
5835-009A	2260-2265m	13.6600	0.17662	0.02915	0.14747	0.09497	0.03259	0.01961	0.00030
5835-010A	2270-2275m	14.7100	0.18350	0.02303	0.16047	0.10061	0.03851	0.02070	0.00065
5835-011A	2280-2285m	13.2600	0.16489	0.02570	0.13919	0.08379	0.03549	0.01948	0.00043
5835-012A	2290-2295m	12.3600	0.16358	0.02920	0.13438	0.08251	0.03305	0.01867	0.00015
5835-013A	STD 2107m	11.9700	0.10556	0.02961	0.07595	0.03691	0.01177	0.02719	0.00008
5835-014A	STD 2115m	14.3000	0.11496	0.04128	0.07368	0.03831	0.01127	0.02401	0.00009
5835-015A	STD 2120m	13.8000	0.09364	0.02614	0.06750	0.03354	0.01039	0.02342	0.00015
5835-016A	STD 2125m	15.9100	0.14325	0.04922	0.09403	0.04532	0.01607	0.03234	0.00030
5835-017A	STD 2132m	12.7600	0.09126	0.03894	0.05232	0.02338	0.00915	0.01967	0.00012
5835-018A	STD 2137m	14.4600	0.10810	0.03744	0.07066	0.03151	0.01271	0.02628	0.00016

S-shale, SS-sandstone, L-limestone, D-dolomite, M-mixed, see Table 1.

TABLE 11
COMPOSITION (NORMALISED %) OF C₁₅₊ SATURATE (PARAFFIN - NAPHTHENE) HYDROCARBONS

GEOCHEM SAMPLE NUMBER	002A	004A	005A	006A	007A	008A
DEPTH	1950- 1960m	2205- 2210m	2215- 2220m	2225- 2230m	2235- 2240m	2245- 2250m
SAMPLE TYPE						
nC15	17.93	13.02	12.20	17.40	14.50	16.31
nC16	12.50	10.56	11.35	12.09	11.78	14.24
nC17	9.24	10.22	9.59	13.26	10.30	12.93
nC18	8.02	9.28	8.51	8.91	8.95	9.96
nC19	8.59	8.88	10.23	9.12	9.55	9.13
nC20	7.85	8.53	8.35	7.03	7.87	7.83
nC21	6.34	7.73	8.78	7.57	8.32	6.54
nC22	5.91	7.32	6.77	6.06	7.16	5.97
nC23	5.49	6.65	6.94	5.98	5.54	4.88
nC24	4.69	5.86	5.80	4.10	4.93	4.00
nC25	4.27	4.35	4.57	3.55	4.52	3.50
nC26	3.35	2.93	3.33	2.26	3.10	2.22
nC27	2.81	2.33	2.26	1.38	2.50	1.46
nC28	1.38	1.16	0.89	0.71	0.81	0.68
nC29	1.03	0.74	0.28	0.33	0.13	0.22
nC30	0.32	0.25	0.12	0.13	0.05	0.06
nC31	0.14	0.10	0.03	0.12	0.00	0.05
nC32	0.07	0.05	0.00	0.00	0.00	0.01
nC33	0.03	0.04	0.00	0.00	0.00	0.00
nC34	0.02	0.02	0.00	0.00	0.00	0.00
nC35	0.02	0.02	0.00	0.00	0.00	0.00
Paraffin	28.08	31.30	33.15	37.85	27.97	35.78
Isoprenoid	6.41	8.27	7.40	8.10	6.38	7.14
Naphthene	65.51	60.43	59.45	54.05	65.65	57.08
CPI 1 Index	1.05	1.04	1.14	1.18	1.11	1.05
CPI 2 Index	1.23	1.23	1.17	1.24	1.31	1.26
CPI 3 Index	1.19	1.14	1.07	0.93	1.28	1.01
Prist/Phytane	1.67	1.82	2.81	3.42	2.53	2.49
Prist/nC17	1.46	1.11	1.11	0.87	1.13	0.89
Phytane/nC18	1.00	0.67	0.45	0.38	0.51	0.46

Job Number : 5835

$$C.P.I. 1 = \frac{1}{2} \left[\frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{20} + C_{22} + C_{24} + C_{26}} + \frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{22} + C_{24} + C_{26} + C_{28}} \right]$$

$$C.P.I. 2 = \frac{1}{2} \left[\frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{24} + C_{26} + C_{28} + C_{30}} + \frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{26} + C_{28} + C_{30} + C_{32}} \right]$$

$$C.P.I. 3 = \frac{2 \times (C_{27})}{C_{26} + C_{28}}$$

CT - ditch cuttings CO - core SWC - sidewall core

TABLE 11
COMPOSITION (NORMALISED %) OF C₁₅₊ SATURATE (PARAFFIN - NAPHTHENE) HYDROCARBONS

GEOCHEM SAMPLE NUMBER	009A	010A	011A	012A	013	014
DEPTH	2260- 2265m	2270- 2275m	2280- 2285m	2290- 2295m	STD 2107	STD 2115
SAMPLE TYPE						
nC15	14.56	15.16	15.23	20.26	13.20	15.98
nC16	11.96	12.79	14.15	18.49	12.14	16.55
nC17	10.17	10.94	11.70	13.25	11.38	12.39
nC18	9.00	9.68	10.61	11.46	10.25	11.17
nC19	8.93	10.22	9.63	9.18	10.32	10.49
nC20	8.27	7.55	7.87	8.21	9.48	9.03
nC21	7.22	7.53	8.21	4.79	7.84	6.72
nC22	6.44	6.98	6.36	4.73	5.44	4.75
nC23	5.94	5.54	5.06	2.76	4.24	4.30
nC24	4.74	4.38	3.79	2.22	3.99	3.35
nC25	3.63	3.35	3.11	1.41	3.05	2.75
nC26	3.30	2.30	1.93	1.33	2.09	1.48
nC27	2.50	1.71	1.13	0.76	2.10	0.56
nC28	1.55	0.85	0.60	0.57	1.31	0.24
nC29	1.01	0.58	0.38	0.32	1.41	0.07
nC30	0.44	0.24	0.15	0.15	0.67	0.10
nC31	0.19	0.08	0.04	0.06	0.50	0.08
nC32	0.07	0.09	0.03	0.05	0.18	0.00
nC33	0.09	0.03	0.02	0.00	0.22	0.00
nC34	0.00	0.00	0.00	0.00	0.12	0.00
nC35	0.00	0.00	0.00	0.00	0.07	0.00
Paraffin	24.11	23.35	21.19	26.93	25.54	22.71
Isoprenoid	6.50	6.11	5.56	6.02	8.52	7.91
Naphthene	69.39	70.54	73.25	67.05	65.94	69.38
CPI 1 Index	1.03	1.05	1.13	0.84	1.08	1.11
CPI 2 Index	1.05	1.19	1.22	0.91	1.27	1.29
CPI 3 Index	1.03	1.09	0.89	0.80	1.24	0.65
Prist/Phytane	1.37	1.17	1.22	1.60	1.79	2.02
Prist/nC17	0.92	0.78	0.76	0.56	1.23	1.31
Phytane/nC18	0.76	0.76	0.69	0.41	0.76	0.72

Job Number : 5835

$$C.P.I. 1 = \frac{1}{2} \left[\frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{20} + C_{22} + C_{24} + C_{26}} + \frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{22} + C_{24} + C_{26} + C_{28}} \right]$$

$$C.P.I. 2 = \frac{1}{2} \left[\frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{24} + C_{26} + C_{28} + C_{30}} + \frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{26} + C_{28} + C_{30} + C_{32}} \right]$$

$$C.P.I. 3 = \frac{2 \times (C_{27})}{C_{26} + C_{28}}$$

CT - ditch cuttings CO - core SWC - sidewall core

TABLE 11
COMPOSITION (NORMALISED %) OF C₁₅₊ SATURATE (PARAFFIN - NAPHTHENE) HYDROCARBONS

GEOCHEM SAMPLE NUMBER	015	016	017A	018
DEPTH	STD 2120	STD 2125	STD 2132	STD 2137
SAMPLE TYPE				
nC15	16.80	18.05	20.75	20.44
nC16	15.65	15.31	19.40	14.74
nC17	13.54	13.35	13.21	10.77
nC18	12.00	12.71	11.63	8.16
nC19	11.17	10.33	8.97	8.15
nC20	9.27	8.86	8.11	7.19
nC21	6.52	6.61	5.07	5.86
nC22	4.68	4.81	3.60	4.89
nC23	3.62	3.83	2.85	4.10
nC24	2.57	2.75	2.14	3.02
nC25	2.37	2.41	1.65	3.16
nC26	1.21	0.69	0.98	2.34
nC27	0.20	0.08	0.71	2.38
nC28	0.31	0.22	0.45	1.43
nC29	0.06	0.00	0.34	1.62
nC30	0.05	0.00	0.15	0.65
nC31	0.00	0.00	0.00	0.49
nC32	0.00	0.00	0.00	0.18
nC33	0.00	0.00	0.00	0.22
nC34	0.00	0.00	0.00	0.14
nC35	0.00	0.00	0.00	0.08
Paraffin	21.84	23.07	27.53	22.41
Isoprenoid	6.96	7.59	10.54	6.31
Naphthene	71.20	69.34	61.93	71.28
CPI 1 Index	1.08	1.14	1.06	1.11
CPI 2 Index	1.16	1.71	1.22	1.35
CPI 3 Index	0.26	0.18	0.99	1.26
Prist/Phytane	1.82	1.69	3.01	2.38
Prist/nC17	1.29	1.21	1.51	1.63
Phytane/nC18	0.80	0.75	0.57	0.91

Job Number : 5835

$$C.P.I. 1 = \frac{1}{2} \left[\frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{20} + C_{22} + C_{24} + C_{26}} + \frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{22} + C_{24} + C_{26} + C_{28}} \right]$$

$$C.P.I. 2 = \frac{1}{2} \left[\frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{24} + C_{26} + C_{28} + C_{30}} + \frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{26} + C_{28} + C_{30} + C_{32}} \right]$$

$$C.P.I. 3 = \frac{2 \times (C_{27})}{C_{26} + C_{28}}$$

CT - ditch cuttings CO - core SWC - sidewall core

TABLE 12
 CARBON ISOTOPE COMPOSITIONS (‰, PDB)

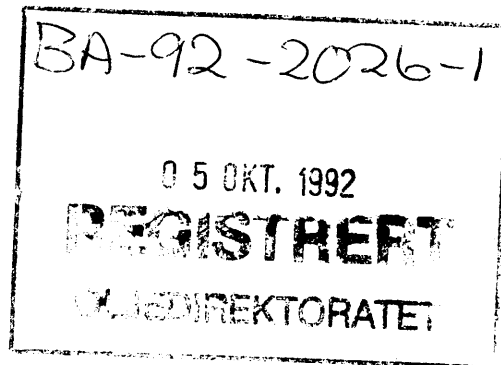
JOB 5835	DEPTH/ IDENTITY	TOTAL EXTRACT WHOLE OIL	SATURATES	AROMATICS	NSO	ASPHALTENES	KEROGEN	PYROLYSATE (S2)
GEOCHEM SAMPLE NUMBER								

WELL: 7122/4-1

5835-012A	2290-2295m	-28.00	-29.03	-27.73	-27.16	-27.58
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Prepared for
HYDRO

**RESERVOIR GEOCHEMICAL DATA -
WELL 7122/4-1 (ESSO)**

Report No. 5834

April 1992

TABLE 1
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

JOB 5834				
GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY	GROSS LITHOLOGIC DESCRIPTION	G S A COLOUR CODE	TOTAL ORGANIC CARBON (Wt. %)

WELL: 7122/4-1 CORES

5834-001	CORE 2334.00m	A100% SANDSTONE - blocky, hard, fine grained, no F, slow blooming cut, pale yellowish brown.	10YR6/2	
5834-002	CORE 2337.25m	A100% SANDSTONE - as 5834-001A, no F, instant blooming cut, pale yellowish brown.	10YR6/2	
5834-003	CORE 2341.00m	A100% SANDSTONE - as 5834-001A, no F, instant blooming cut, pale yellowish brown.	10YR6/2	
5834-004	CORE 2345.50m	A100% SANDSTONE - blocky, hard, occ dark grey arg inclusions, dull gold F, instant blooming cut, pale yellowish brown.	10YR6/2	
5834-005	CORE 2347.50m	A100% SANDSTONE - blocky, hard, numerous dark grey arg inclusions, no F, v slow blooming cut, pale yellowish brown to dark yellowish brown.	10YR6/2- 10YR4/2	
5834-006	CORE 2349.75m	A100% SANDSTONE - blocky, poorly consolidated, med to coarse grained, yellow F, instant blooming cut, pale yellowish brown.	10YR6/2	
5834-007	CORE 2351.00m	A100% SANDSTONE - blocky, poorly consolidated, med to coarse grained, dull gold F, instant blooming cut, pale yellowish brown.	10YR6/2	
5834-008	CORE 2353.00m	A100% SANDSTONE - blocky, mod hard, med to fine grained, dull gold F, slow blooming cut, pale yellowish brown.	10YR6/2	
5834-009	CORE 2354.50m	A100% SANDSTONE - as 5834-008A, dull gold F, slow blooming cut, pale yellowish brown.	10YR6/2	
5834-010	CORE 2355.50m	A100% SANDSTONE - blocky, poorly consolidated, med to fine grained, gold F, instant blooming cut, pale yellowish brown.	10YR6/2	
5834-011	CORE 2356.25m	A100% SANDSTONE - as 5834-010A, gold F, slow blooming cut, pale yellowish brown.	10YR6/2	

Abbreviations = arenaceous, argillaceous, calcareous, Cut, dolomite, Fluorescence, foraminifera fossiliferous, Lost Circulation Material, moderately, occasionally, slightly, very

TABLE 1
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

JOB 5834				
GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY	GROSS LITHOLOGIC DESCRIPTION	G S A COLOUR CODE	TOTAL ORGANIC CARBON (Wt. %)
5834-012	CORE 2357.00m	A100% SANDSTONE - blocky, poorly consolidated, med to fine grained, v dull gold F, slow blooming cut, pale yellowish brown.	10YR6/2	
5834-013	CORE 2360.00m	A100% SANDSTONE - as 5834-012A, gold F, instant blooming cut, pale yellowish brown.	10YR6/2	
5834-014	CORE 2363.00m	A100% SANDSTONE - as 5834-012A, dull gold F, instant blooming cut, pale yellowish brown.	10YR6/2	
5834-015	CORE 2365.50m	A100% SANDSTONE - blocky, v poorly consolidated, med to coarse grained, yellow F, instant streaming cut, pale yellowish brown	10YR6/2	
5834-016	CORE 2367.00m	A100% SANDSTONE - blocky, mod well consolidated, med to fine grained, dull gold F, instant blooming cut, pale yellowish brown.	10YR6/2	
5834-017	CORE 2369.00m	A100% SANDSTONE - as 5834-016A, v dull gold F, instant streaming cut, pale yellowish brown.	10YR6/2	
5834-018	CORE 2372.00m	A100% SANDSTONE - blocky, mod hard, non-calc cement, gold F, slow blooming cut, pale yellowish brown.	10YR6/2	
5834-019	CORE 2376.00m	A100% SANDSTONE - blocky, mod hard, non-calc cement, no F, slow blooming cut, pale yellowish brown.	10YR6/2	
5834-020	CORE 2379.00m	A100% SANDSTONE - as 5834-019A, dull gold F, slow blooming cut, pale yellowish brown.	10YR6/2	
5834-021	CORE 2382.00m	A100% SANDSTONE - as 5834-019A, v dull gold F, slow blooming cut, pale yellowish brown.	10YR6/2	
5834-022	CORE 2383.75m	A100% SANDSTONE - blocky, mod hard, non-calc cement, no F, v slow blooming cut, pale yellowish brown.	10YR6/2	
5834-023	CORE 2386.00m	A100% SANDSTONE - as 5834-022A, no F, v slow blooming cut, pale yellowish brown.	10YR6/2	

Abbreviations = arenaceous, argillaceous, calcareous, Cut, dolomite, Fluorescence, foraminifera fossiliferous, Lost Circulation Material, moderately, occasionally, slightly, very

TABLE 1
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

JOB 5834					
GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY	GROSS LITHOLOGIC DESCRIPTION	G S A COLOUR CODE	TOTAL ORGANIC CARBON (Wt. %)	
5834-024	CORE 2390.50m	A100% SANDSTONE - as 5834-022A, no F, v slow blooming cut, pale yellowish brown.	10YR6/2		
5834-025	CORE 2391.50m	A100% SANDSTONE - blocky, hard, fine grained, grading to siltstone, occ dark grey bands of claystone or bitumen, no F, v slow blooming cut, light olive grey.	5Y6/1		
5834-026	CORE 2392.75m	A100% SANDSTONE - blocky, hard, med grained, non-calc cement, dull gold F, slow blooming cut, light olive grey.	5Y6/1		
5834-027	CORE 2393.00m	A100% SANDSTONE - as 5834-026A, dull yellow F, instant streaming cut, light olive grey.	5Y6/1		
5834-028	CORE 2393.50m	A100% SANDSTONE - blocky, hard, v fine argillaceous bands, v fine grained, micaceous, no F, instant blooming cut, light olive grey to olive grey	5Y6/1 - 5Y4/1		
5834-029	CORE 2394.50m	A100% SANDSTONE - blocky, hard, med to coarse grained, yellow F, instant streaming cut, pale yellowish brown	10YR6/2		
5834-030	CORE 2394.75m	A100% SANDSTONE - blocky, hard, med grained, micaceous, gold F, instant blooming cut, pale yellowish brown.	10YR6/2		
5834-031	CORE 2395.75m	A100% SANDSTONE - blocky, hard, v fine grained, occ laminae of micaceous arg claystone, no F, v slow blooming cut, dark yellowish brown.	10YR4/2		
5834-032	CORE 2395.90m	A100% COALY CLAYSTONE - blocky, hard, non-calc, black to greyish black.	N1 N2	-	15.10
5834-033	CORE 2396.25m	A100% SANDSTONE - blocky, mod hard, med to fine grained, gold F, instant blooming cut, pale yellowish brown.	10YR6/2		
5834-034	CORE 2396.75m	A100% SANDSTONE - as 5834-033A, gold F, instant blooming cut, pale yellowish brown.	10YR6/2		
5834-035	CORE 2398.00m	A100% SANDSTONE - blocky, hard, med to fine grained, occ staining, micaceous, gold F, instant streaming cut, pale yellowish brown	10YR6/2		

Abbreviations = arenaceous, argillaceous, calcareous, Cut, dolomite, Fluorescence, foraminifera fossiliferous, Lost Circulation Material, moderately, occasionally, slightly, very

TABLE 1
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

JOB 5834				
GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY		GROSS LITHOLOGIC DESCRIPTION	G S A COLOUR CODE
				TOTAL ORGANIC CARBON (wt. %)
5834-036	CORE 2400.50m	A100%	SANDSTONE - as 5834-035A, yellow F, instant streaming cut, pale yellowish brown.	10YR6/2
5834-037	CORE 2400.75m	A100%	SANDSTONE - blocky, hard, fine grained, occ staining, yellow F, instant streaming cut, pale yellowish brown.	10YR6/2
5834-038	CORE 2401.75m	A100%	SANDSTONE - blocky, hard, v fine grained, occ staining, yellow F, instant streaming cut, pale yellowish brown.	10YR6/2
5834-039	CORE 2402.25m	A100%	SANDSTONE - blocky, hard, med to fine grained, occ staining, yellow F, instant blooming cut, pale yellowish brown.	10YR6/2
5834-040	CORE 2403.00m	A100%	SANDSTONE - as 5834-039A, yellow F, instant streaming cut, pale yellowish brown.	10YR6/2
5834-041	CORE 2403.75m	A100%	SANDSTONE - as 5834-039A, yellow F, instant streaming cut, pale yellowish brown.	10YR6/2
5834-042	CORE 2404.00m	A100%	SANDSTONE - blocky, hard, occ staining, yellow F, instant blooming cut, pale yellowish brown.	10YR6/2
5834-043	CORE 2404.50m	A100%	SANDSTONE - blocky, hard, v oily odour, bitumen staining on fracture surface, yellow F, instant streaming cut, dark yellowish brown	10YR4/2
5834-044	CORE 2404.75m	A100%	SANDSTONE - med grained, blocky, hard, oily odour, strong yellow F, instant streaming cut, pale yellowish brown.	10YR6/2
5834-045	CORE 2405.00m	A100%	SANDSTONE - as 5834-044A, strong yellow F, instant streaming cut, pale yellowish brown.	10YR6/2
5834-046	CORE 2406.25m	A100%	SANDSTONE - med grained, blocky, hard, micaceous, oily odour, bitumen staining, gold F, instant blooming cut, pale yellowish brown.	10YR6/2

Abbreviations = arenaceous, argillaceous, calcareous, Cut, dolomite, Fluorescence, foraminifera fossiliferous, Lost Circulation Material, moderately, occasionally, slightly, very

TABLE 2a
STANDARD PYROLYSIS DATA

JOB 5834								
GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY	ORGANIC CARBON (%)	S0 (mg/g)	S1 (mg/g)	S2 (mg/g)	PRODN INDEX	HYDGN INDEX	TMAX (°C)

WELL: 7122/4-1 CORES

5834-032A CORE 2395.90m 15.10 0.03 5.27 85.21 0.06 564.3 447

UNEXTRACTED LITHOLOGY

PRODUCTION INDEX = $S1 / (S0 + S1 + S2)$ HYDROGEN INDEX = $100 \times S2 / TOC$
 S0 : 100°C (180secs) S1 : 300°C (180secs) S2 : 25°C / 10min + 1 min 550°C

TABLE 3a
 PYROLYSIS-GC GAS-OIL INDICES

JOB 5834	DEPTH/ IDENTITY	% C1	% C2-C5	% C6-C14	% C15+	% nC17	INDICES		
GEOCHEM SAMPLE NUMBER							<u>TOLUENE</u> nC8	% PHENOL	% C1-C5

WELL: 7122/4-1 CORES

5834-032A	CORE 2395.90m	20.10	23.70	38.90	16.14	1.16	0.52	0.02	43.80
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TABLE 3b
 PYROLYSIS-GC GAS-OIL INDICES

JOB 5834	DEPTH/ IDENTITY	% C1	% C2-C6	% C7-C14	% C15+	% nC17	INDICES		
GEOCHEM SAMPLE NUMBER							$\frac{\text{TOLUENE}}{\text{nC8}}$	% PHENOL	% C1-C6

WELL: 7122/4-1 CORES

5834-032A	CORE 2395.90m	20.10	30.23	32.38	16.14	1.16	0.52	0.02	50.33
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TABLE 4
KEROGEN TYPE AND MATURATION

JOB 5834 GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY	ORGANIC MATTER DESCRIPTION					THERMAL MATURATION	
		TYPES >35%; 10-35%; <10%	REMARKS	RE- WORKED (%)	PARTICLE SIZE	PRESERV- ATION	THERMAL ALTERATION INDEX	1-10 SCALE

WELL: 7122/4-1 CORES

5834-032A	CORE 2395.90m	(H*;W-Am;I)	widespread sapropelisation, differentiation difficult, treat data with caution * degraded, unrecognisable, commonly passing to amorphous	F-M/C	G	2	4
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Algal, Amorphous, Herbaceous, Inertinite, Resin, Wood
preservation = Poor, Fair, Good size = Fine, Medium, Coarse

TA1 SCALE	1	1+ to 2-	2-	2	2 TO 2+	2+ TO 3-	3	3+	4	5
1-10 SCALE	1	2	3	4	5	6	7	8	9	10

TABLE 5
KEROGEN COMPOSITION

GEOCHEM SAMPLE NUMBER	DEPTH	VISUAL ESTIMATE (%)				
		Am	Al	H	W	I
5834-032A	2395.98m	(10	-	64*	25	1)

* See remarks, table 4 - kerogen type and maturation

() Differentiation difficult, treat data with caution

TABLE 6
CONCENTRATION (PPM) OF EXTRACTED C₁₅₊ MATERIAL IN ROCK

JOB 5834 GEOCHEM SAMPLE NUMBER	L I T H O	DEPTH/ IDENTITY	TOTAL EXTRACT	HYDROCARBONS			NON HYDROCARBONS			
				Saturates	Aromatics	TOTAL	Preciptd. Asphaltenes	Eluted NSO's	Non-Eluted NSO's	TOTAL

WELL: 7122/4-1 CORES

5834-001A	CORE	2334.00m	462	262	31	293	85	83	2	170
5834-002A	CORE	2337.25m	837	508	67	575	140	119	2	261
5834-003A	CORE	2341.00m	972	713	79	792	78	101	2	181
5834-004A	CORE	2345.50m	1053	766	83	849	110	92	2	204
5834-005A	CORE	2347.50m	2141	1480	251	1731	143	261	5	410
5834-006A	CORE	2349.75m	708	457	47	504	76	127	1	204
5834-007A	CORE	2351.00m	475	267	53	320	46	107	1	155
5834-008A	CORE	2353.00m	344	180	38	218	50	73	2	125
5834-009A	CORE	2354.50m	500	220	41	261	90	147	2	239
5834-010A	CORE	2355.50m	509	295	57	352	42	114	2	157
5834-011A	CORE	2356.25m	693	345	75	420	114	157	3	273
5834-012A	CORE	2357.00m	498	217	38	255	118	123	2	243
5834-013A	CORE	2360.00m	473	273	40	312	34	124	2	161
5834-014A	CORE	2363.00m	401	224	32	256	47	96	2	145
5834-015A	CORE	2365.50m	711	452	65	516	42	150	3	195
5834-016A	CORE	2367.00m	1141	796	111	907	37	193	5	234
5834-017A	CORE	2369.00m	716	466	71	538	36	139	3	179
5834-018A	CORE	2372.00m	605	348	48	396	55	151	3	209
5834-019A	CORE	2376.00m	620	313	57	370	95	153	2	250
5834-020A	CORE	2379.00m	647	334	57	391	97	155	4	256
5834-021A	CORE	2382.00m	291	141	25	166	49	75	1	124
5834-022A	CORE	2383.75m	259	86	17	102	73	82	1	157
5834-023A	CORE	2386.00m	354	118	22	139	71	142	2	215
5834-024A	CORE	2390.50m	317	98	20	119	100	97	2	198
5834-025A	CORE	2391.50m	796	388	77	465	159	169	3	332
5834-026A	CORE	2392.75m	1415	918	126	1044	150	217	3	371
5834-027A	CORE	2393.00m	1854	1287	170	1456	140	252	6	398
5834-028A	CORE	2393.50m	809	392	83	475	176	156	2	334
5834-029A	CORE	2394.50m	774	409	58	467	130	175	2	307
5834-030A	CORE	2394.75m	1037	641	98	739	108	186	4	298
5834-031A	CORE	2395.75m	1179	598	172	770	200	205	4	409
5834-032A	CORE	2395.90m	7790	1263	1260	2523	4465	791	11	5267

S-shale, SS-sandstone, L-limestone, D-dolomite, M-mixed, see Table 1.

TABLE 6
CONCENTRATION (PPM) OF EXTRACTED C₁₅₊ MATERIAL IN ROCK

JOB 5834 GEOCHEM SAMPLE NUMBER	L I T H O	DEPTH/ IDENTITY	TOTAL EXTRACT	HYDROCARBONS			NON HYDROCARBONS			
				Saturates	Aromatics	TOTAL	Preciptd. Asphaltenes	Eluted NSO's	Non-Eluted NSO's	TOTAL
5834-033A	CORE	2396.25m	1012	642	133	774	70	163	5	238
5834-034A	CORE	2396.75m	962	637	107	743	65	149	5	219
5834-035A	CORE	2398.00m	1671	1183	201	1384	120	161	5	287
5834-036A	CORE	2400.50m	1767	1249	209	1458	109	197	4	310
5834-037A	CORE	2400.75m	1102	793	135	928	88	83	4	175
5834-038A	CORE	2401.75m	1742	1287	238	1524	77	136	4	218
5834-039A	CORE	2402.25m	2626	1875	345	2220	180	220	6	405
5834-040A	CORE	2403.00m	2260	1609	275	1884	225	147	5	376
5834-041A	CORE	2403.75m	1314	868	178	1046	108	156	3	268
5834-042A	CORE	2404.00m	553	375	66	441	73	37	3	113
5834-043A	CORE	2404.50m	4780	3673	667	4340	113	313	15	440
5834-044A	CORE	2404.75m	2020	1431	284	1715	97	201	7	306
5834-045A	CORE	2405.00m	1511	1002	190	1193	120	193	7	320
5834-046A	CORE	2406.25m	789	422	105	527	158	103	1	262
5834-047A	CORE	2406.50m	2466	1747	332	2080	142	239	6	386
5834-048A	CORE	2407.50m	605	329	66	395	113	96	2	211
5834-049A	CORE	2408.00m	524	261	61	322	131	69	1	201
5834-050A	CORE	2408.50m	606	331	69	400	112	93	1	206
5834-051A	CORE	2409.00m	1691	616	553	1169	339	177	6	522

S-shale, SS-sandstone, L-limestone, D-dolomite, M-mixed, see Table 1.

TABLE 7
COMPOSITION (NORMALISED %) OF C₁₅₊ MATERIAL

JOB 5834 GEOCHEM SAMPLE NUMBER	L I T H O	DEPTH/ IDENTITY	HYDROCARBONS		NON HYDROCARBONS		
			Saturates	Aromatics	Preciptd. Asphaltenes	Eluted NSO's	Non-Eluted NSO's

WELL: 7122/4-1 CORES

5834-001A	CORE	2334.00m	56.71	6.64	18.48	17.85	0.47
5834-002A	CORE	2337.25m	60.68	8.06	16.79	14.21	0.25
5834-003A	CORE	2341.00m	73.28	8.15	8.02	10.36	0.19
5834-004A	CORE	2345.50m	72.70	7.92	10.45	8.74	0.19
5834-005A	CORE	2347.50m	69.13	11.73	6.70	12.20	0.25
5834-006A	CORE	2349.75m	64.50	6.69	10.73	17.89	0.19
5834-007A	CORE	2351.00m	56.25	11.16	9.67	22.62	0.30
5834-008A	CORE	2353.00m	52.34	11.14	14.70	21.38	0.45
5834-009A	CORE	2354.50m	44.01	8.23	17.96	29.34	0.45
5834-010A	CORE	2355.50m	57.88	11.21	8.18	22.42	0.30
5834-011A	CORE	2356.25m	49.72	10.85	16.38	22.60	0.45
5834-012A	CORE	2357.00m	43.66	7.54	23.60	24.72	0.48
5834-013A	CORE	2360.00m	57.66	8.38	7.23	26.30	0.43
5834-014A	CORE	2363.00m	55.78	8.02	11.75	23.88	0.56
5834-015A	CORE	2365.50m	63.47	9.11	5.92	21.03	0.47
5834-016A	CORE	2367.00m	69.74	9.73	3.22	16.91	0.40
5834-017A	CORE	2369.00m	65.10	9.97	5.08	19.45	0.39
5834-018A	CORE	2372.00m	57.49	8.00	9.03	24.91	0.57
5834-019A	CORE	2376.00m	50.54	9.14	15.30	24.63	0.38
5834-020A	CORE	2379.00m	51.59	8.81	15.06	23.99	0.55
5834-021A	CORE	2382.00m	48.52	8.67	16.68	25.74	0.38
5834-022A	CORE	2383.75m	33.07	6.43	28.35	31.63	0.52
5834-023A	CORE	2386.00m	33.17	6.14	20.07	39.97	0.66
5834-024A	CORE	2390.50m	30.97	6.45	31.61	30.45	0.52
5834-025A	CORE	2391.50m	48.76	9.62	19.99	21.22	0.41
5834-026A	CORE	2392.75m	64.88	8.93	10.61	15.35	0.24
5834-027A	CORE	2393.00m	69.39	9.15	7.58	13.58	0.30
5834-028A	CORE	2393.50m	48.43	10.30	21.73	19.25	0.28
5834-029A	CORE	2394.50m	52.80	7.54	16.79	22.63	0.24
5834-030A	CORE	2394.75m	61.77	9.47	10.44	17.91	0.41
5834-031A	CORE	2395.75m	50.74	14.60	16.93	17.36	0.38
5834-032A	CORE	2395.90m	16.22	16.17	57.32	10.15	0.14
5834-033A	CORE	2396.25m	63.38	13.12	6.92	16.10	0.48
5834-034A	CORE	2396.75m	66.19	11.08	6.73	15.47	0.53
5834-035A	CORE	2398.00m	70.78	12.06	7.20	9.64	0.31
5834-036A	CORE	2400.50m	70.65	11.82	6.15	11.14	0.23
5834-037A	CORE	2400.75m	71.94	12.22	7.97	7.52	0.35
5834-038A	CORE	2401.75m	73.87	13.64	4.43	7.82	0.24
5834-039A	CORE	2402.25m	71.43	13.13	6.86	8.37	0.22
5834-040A	CORE	2403.00m	71.21	12.15	9.96	6.48	0.20
5834-041A	CORE	2403.75m	66.05	13.58	8.24	11.90	0.23
5834-042A	CORE	2404.00m	67.79	11.84	13.25	6.62	0.49
5834-043A	CORE	2404.50m	76.84	13.96	2.36	6.54	0.30
5834-044A	CORE	2404.75m	70.81	14.06	4.82	9.97	0.34
5834-045A	CORE	2405.00m	66.33	12.60	7.96	12.78	0.43
5834-046A	CORE	2406.25m	53.57	13.26	19.98	13.02	0.18
5834-047A	CORE	2406.50m	70.87	13.48	5.74	9.69	0.22
5834-048A	CORE	2407.50m	54.32	10.85	18.64	15.85	0.34
5834-049A	CORE	2408.00m	49.86	11.69	25.07	13.10	0.28
5834-050A	CORE	2408.50m	54.54	11.46	18.46	15.31	0.23
5834-051A	CORE	2409.00m	36.45	32.68	20.04	10.47	0.36

S-shale, SS-sandstone, L-limestone, D-dolomite, M-mixed, see Table 1.

TABLE 8
SIGNIFICANT C₁₅₊ RATIOS

JOB 5834 GEOCHEM SAMPLE NUMBER	L I T H O	DEPTH/ IDENTITY	TOC (%)	mg/g TOC						HYDROCARBONS & TOTAL EXTRACT	SATURATES AROMATICS
				TOTAL EXTRACT	SATURATES	AROMATICS	TOTAL HYDROCARBONS	ELUTED NSO's	ASPHALTENES		

WELL: 7122/4-1 CORES

5834-001A	CORE	2334.00m	0.08	577.98	327.79	38.35	366.14	103.18	106.83	63.35	8.55
5834-002A	CORE	2337.25m	0.12	697.15	423.04	56.21	479.25	99.10	117.06	68.74	7.53
5834-003A	CORE	2341.00m	0.10	972.36	712.53	79.24	791.77	100.74	78.01	81.43	8.99
5834-004A	CORE	2345.50m	0.10	1053.37	765.84	83.39	849.23	92.06	110.07	80.62	9.18
5834-005A	CORE	2347.50m	0.52	411.66	284.58	48.27	332.85	50.21	27.57	80.86	5.90
5834-006A	CORE	2349.75m	0.09	787.19	507.75	52.63	560.37	140.83	84.50	71.19	9.65
5834-007A	CORE	2351.00m	0.07	678.93	381.90	75.77	457.67	153.57	65.67	67.41	5.04
5834-008A	CORE	2353.00m	0.09	381.71	199.78	42.51	242.29	81.61	56.11	63.47	4.70
5834-009A	CORE	2354.50m	0.07	714.82	314.61	58.86	373.46	209.74	128.41	52.25	5.35
5834-010A	CORE	2355.50m	0.08	636.57	368.44	71.37	439.82	142.75	52.08	69.09	5.16
5834-011A	CORE	2356.25m	0.08	866.29	430.70	93.97	524.67	195.77	141.93	60.57	4.58
5834-012A	CORE	2357.00m	0.07	711.43	310.61	53.67	364.28	175.86	167.87	51.20	5.79
5834-013A	CORE	2360.00m	0.07	675.72	389.61	56.64	446.25	177.72	48.82	66.04	6.88
5834-014A	CORE	2363.00m	0.06	668.16	372.73	53.60	426.33	159.56	78.53	63.81	6.95
5834-015A	CORE	2365.50m	0.06	1185.71	752.62	107.99	860.61	249.39	70.14	72.58	6.97
5834-016A	CORE	2367.00m	0.06	1902.30	1326.66	185.07	1511.73	321.71	61.33	79.47	7.17
5834-017A	CORE	2369.00m	0.06	1193.98	777.31	119.05	896.36	232.26	60.69	75.07	6.53
5834-018A	CORE	2372.00m	0.04	1511.75	869.04	120.94	989.98	376.64	136.49	65.49	7.19
5834-019A	CORE	2376.00m	0.06	1033.06	522.10	94.45	616.56	254.49	158.08	59.68	5.53
5834-020A	CORE	2379.00m	0.06	1078.98	556.66	95.09	651.74	258.85	162.44	60.40	5.85
5834-021A	CORE	2382.00m	0.05	581.49	282.15	50.44	332.59	149.67	97.01	57.20	5.59
5834-022A	CORE	2383.75m	0.05	518.54	171.49	33.34	204.83	164.00	146.99	39.50	5.14
5834-023A	CORE	2386.00m	0.05	708.58	235.02	43.48	278.50	283.20	142.19	39.30	5.41
5834-024A	CORE	2390.50m	0.06	528.51	163.67	34.10	197.76	160.94	167.08	37.42	4.80
5834-025A	CORE	2391.50m	0.19	419.21	204.42	40.31	244.73	88.97	83.78	58.38	5.07
5834-026A	CORE	2392.75m	0.12	1178.96	764.90	105.25	870.15	180.98	125.05	73.81	7.27
5834-027A	CORE	2393.00m	0.11	1685.43	1169.55	154.18	1323.73	228.95	127.71	78.54	7.59
5834-028A	CORE	2393.50m	0.26	311.16	150.71	32.04	182.75	59.90	67.63	58.73	4.70
5834-029A	CORE	2394.50m	0.09	859.85	453.99	64.86	518.84	194.57	144.40	60.34	7.00
5834-030A	CORE	2394.75m	0.10	1037.24	640.69	98.27	738.96	185.80	108.25	71.24	6.52
5834-031A	CORE	2395.75m	0.48	245.59	124.60	35.85	160.45	42.62	41.57	65.34	3.48
5834-032A	CORE	2395.90m	14.50	53.72	8.71	8.69	17.40	5.45	30.79	32.39	1.00

TABLE 8
SIGNIFICANT C₁₅₊ RATIOS

JOB 5834 GEOCHEM SAMPLE NUMBER	L I T H O	DEPTH/ IDENTITY	TOC (%)	mg/g TOC						HYDROCARBONS % TOTAL EXTRACT	SATURATES AROMATICS
				TOTAL EXTRACT	SATURATES	AROMATICS	TOTAL HYDROCARBONS	ELUTED NSO's	ASPHALTENES		
5834-033A	CORE	2396.25m	0.10	1012.26	641.56	132.80	774.35	162.93	70.08	76.50	4.83
5834-034A	CORE	2396.75m	0.09	1069.05	707.59	118.50	826.09	165.39	71.90	77.27	5.97
5834-035A	CORE	2398.00m	0.11	1518.86	1075.08	183.16	1258.25	146.46	109.43	82.84	5.87
5834-036A	CORE	2400.50m	0.08	2209.17	1560.83	261.08	1821.91	246.20	135.93	82.47	5.98
5834-037A	CORE	2400.75m	0.07	1574.58	1132.68	192.47	1325.15	118.36	125.55	84.16	5.89
5834-038A	CORE	2401.75m	0.06	2903.05	2144.45	396.06	2540.51	227.02	128.53	87.51	5.41
5834-039A	CORE	2402.25m	0.07	3750.85	2679.08	492.56	3171.65	313.82	257.20	84.56	5.44
5834-040A	CORE	2403.00m	0.06	3766.59	2682.19	457.68	3139.87	244.18	375.03	83.36	5.86
5834-041A	CORE	2403.75m	0.10	1313.99	867.91	178.43	1046.34	156.35	108.27	79.63	4.86
5834-042A	CORE	2404.00m	0.06	922.39	625.33	109.21	734.53	61.10	122.21	79.63	5.73
5834-043A	CORE	2404.50m	0.06	7967.25	6121.90	1111.94	7233.84	521.11	188.02	90.79	5.51
5834-044A	CORE	2404.75m	0.07	2886.30	2043.81	405.92	2449.73	287.81	139.04	84.87	5.04
5834-045A	CORE	2405.00m	0.09	1678.76	1113.53	211.58	1325.11	214.61	133.60	78.93	5.26
5834-046A	CORE	2406.25m	0.07	1126.53	603.43	149.36	752.79	146.71	225.04	66.82	4.04
5834-047A	CORE	2406.50m	0.06	4109.77	2912.48	553.88	3466.37	398.26	235.94	84.34	5.26
5834-048A	CORE	2407.50m	0.08	756.80	411.11	82.09	493.20	119.93	141.10	65.17	5.01
5834-049A	CORE	2408.00m	0.08	654.94	326.54	76.54	403.09	85.80	164.20	61.55	4.27
5834-050A	CORE	2408.50m	0.07	866.20	472.41	99.28	571.70	132.60	159.91	66.00	4.76
5834-051A	CORE	2409.00m	1.07	158.02	57.59	51.64	109.23	16.55	31.67	69.13	1.12

S-shale, SS-sandstone, L-limestone, D-dolomite, M-mixed, see Table 1.

TABLE 9
C₁₅₊ CHROMATOGRAPHY WEIGHTS (grams)

JOB 5834	L I T H O	DEPTH/ IDENTITY	ROCK EXTRACTED	TOTAL EXTRACT	PRECIPTD. ASPHALTENES	NC5	SATURATES	AROMATICS	ELUTED NSO's	NON-ELUTED NSO's
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WELL: 7122/4-1 CORES

5834-001A	CORE	2334.00m	13.6900	0.00633	0.00117	0.00517	0.00359	0.00042	0.00113	0.00003
5834-002A	CORE	2337.25m	14.3800	0.01203	0.00202	0.01001	0.00730	0.00097	0.00171	0.00003
5834-003A	CORE	2341.00m	16.2800	0.01583	0.00127	0.01456	0.01160	0.00129	0.00164	0.00003
5834-004A	CORE	2345.50m	14.9900	0.01579	0.00165	0.01414	0.01148	0.00125	0.00138	0.00003
5834-005A	CORE	2347.50m	14.8600	0.03181	0.00213	0.02968	0.02199	0.00373	0.00388	0.00008
5834-006A	CORE	2349.75m	14.9900	0.01062	0.00114	0.00948	0.00685	0.00071	0.00190	0.00002
5834-007A	CORE	2351.00m	14.1400	0.00672	0.00065	0.00607	0.00378	0.00075	0.00152	0.00002
5834-008A	CORE	2353.00m	13.0700	0.00449	0.00066	0.00383	0.00235	0.00050	0.00096	0.00002
5834-009A	CORE	2354.50m	13.3500	0.00668	0.00120	0.00548	0.00294	0.00055	0.00196	0.00003
5834-010A	CORE	2355.50m	12.9600	0.00660	0.00054	0.00606	0.00382	0.00074	0.00148	0.00002
5834-011A	CORE	2356.25m	12.7700	0.00885	0.00145	0.00740	0.00440	0.00096	0.00200	0.00004
5834-012A	CORE	2357.00m	12.5100	0.00623	0.00147	0.00476	0.00272	0.00047	0.00154	0.00003
5834-013A	CORE	2360.00m	14.6300	0.00692	0.00050	0.00642	0.00399	0.00058	0.00182	0.00003
5834-014A	CORE	2363.00m	13.3700	0.00536	0.00063	0.00473	0.00299	0.00043	0.00128	0.00003
5834-015A	CORE	2365.50m	14.9700	0.01065	0.00063	0.01002	0.00676	0.00097	0.00224	0.00005
5834-016A	CORE	2367.00m	15.4900	0.01768	0.00057	0.01711	0.01233	0.00172	0.00299	0.00007
5834-017A	CORE	2369.00m	14.2800	0.01023	0.00052	0.00971	0.00666	0.00102	0.00199	0.00004
5834-018A	CORE	2372.00m	14.4700	0.00875	0.00079	0.00796	0.00503	0.00070	0.00218	0.00005
5834-019A	CORE	2376.00m	25.4100	0.01575	0.00241	0.01334	0.00796	0.00144	0.00388	0.00006
5834-020A	CORE	2379.00m	25.2400	0.01634	0.00246	0.01388	0.00843	0.00144	0.00392	0.00009
5834-021A	CORE	2382.00m	36.0800	0.01049	0.00175	0.00874	0.00509	0.00091	0.00270	0.00004
5834-022A	CORE	2383.75m	29.3900	0.00762	0.00216	0.00546	0.00252	0.00049	0.00241	0.00004
5834-023A	CORE	2386.00m	17.0200	0.00603	0.00121	0.00482	0.00200	0.00037	0.00241	0.00004
5834-024A	CORE	2390.50m	24.4400	0.00775	0.00245	0.00530	0.00240	0.00050	0.00236	0.00004
5834-025A	CORE	2391.50m	18.2800	0.01456	0.00291	0.01165	0.00710	0.00140	0.00309	0.00006
5834-026A	CORE	2392.75m	23.9900	0.03394	0.00360	0.03034	0.02202	0.00303	0.00521	0.00008
5834-027A	CORE	2393.00m	21.6400	0.04012	0.00304	0.03708	0.02784	0.00367	0.00545	0.00012
5834-028A	CORE	2393.50m	30.3700	0.02457	0.00534	0.01923	0.01190	0.00253	0.00473	0.00007
5834-029A	CORE	2394.50m	27.2400	0.02108	0.00354	0.01754	0.01113	0.00159	0.00477	0.00005
5834-030A	CORE	2394.75m	26.0500	0.02702	0.00282	0.02420	0.01669	0.00256	0.00484	0.00011
5834-031A	CORE	2395.75m	17.8400	0.02103	0.00356	0.01747	0.01067	0.00307	0.00365	0.00008
5834-032A	CORE	2395.90m	26.7900	0.20869	0.11962	0.08907	0.03384	0.03375	0.02119	0.00029

TABLE 9
C₁₅₊ CHROMATOGRAPHY WEIGHTS (grams)

JOB 5834	L I T H O	DEPTH/ IDENTITY	ROCK EXTRACTED	TOTAL EXTRACT	PRECIPTD. ASPHALTENES	NC5	SATURATES	AROMATICS	ELUTED NSO's	NON-ELUTED NSO's
5834-033A		CORE 2396.25m	28.5400	0.02889	0.00200	0.02689	0.01831	0.00379	0.00465	0.00014
5834-034A		CORE 2396.75m	39.1000	0.03762	0.00253	0.03509	0.02490	0.00417	0.00582	0.00020
5834-035A		CORE 2398.00m	27.0000	0.04511	0.00325	0.04186	0.03193	0.00544	0.00435	0.00014
5834-036A		CORE 2400.50m	24.3700	0.04307	0.00265	0.04042	0.03043	0.00509	0.00480	0.00010
5834-037A		CORE 2400.75m	25.8300	0.02847	0.00227	0.02620	0.02048	0.00348	0.00214	0.00010
5834-038A		CORE 2401.75m	23.8600	0.04156	0.00184	0.03972	0.03070	0.00567	0.00325	0.00010
5834-039A		CORE 2402.25m	20.9400	0.05498	0.00377	0.05121	0.03927	0.00722	0.00460	0.00012
5834-040A		CORE 2403.00m	26.6200	0.06016	0.00599	0.05417	0.04284	0.00731	0.00390	0.00012
5834-041A		CORE 2403.75m	23.0900	0.03034	0.00250	0.02784	0.02004	0.00412	0.00361	0.00007
5834-042A		CORE 2404.00m	25.6400	0.01419	0.00188	0.01231	0.00962	0.00168	0.00094	0.00007
5834-043A		CORE 2404.50m	26.7700	0.12797	0.00302	0.12495	0.09833	0.01786	0.00837	0.00039
5834-044A		CORE 2404.75m	19.1100	0.03861	0.00186	0.03675	0.02734	0.00543	0.00385	0.00013
5834-045A		CORE 2405.00m	18.3800	0.02777	0.00221	0.02559	0.01842	0.00350	0.00355	0.00012
5834-046A		CORE 2406.25m	21.5200	0.01697	0.00339	0.01358	0.00909	0.00225	0.00221	0.00003
5834-047A		CORE 2406.50m	19.9200	0.04912	0.00282	0.04630	0.03481	0.00662	0.00476	0.00011
5834-048A		CORE 2407.50m	19.4900	0.01180	0.00220	0.00960	0.00641	0.00128	0.00187	0.00004
5834-049A		CORE 2408.00m	20.2500	0.01061	0.00266	0.00795	0.00529	0.00124	0.00139	0.00003
5834-050A		CORE 2408.50m	21.4400	0.01300	0.00240	0.01060	0.00709	0.00149	0.00199	0.00003
5834-051A		CORE 2409.00m	22.9300	0.03877	0.00777	0.03100	0.01413	0.01267	0.00406	0.00014

S-shale, SS-sandstone, L-limestone, D-dolomite, M-mixed, see Table 1.

TABLE 10
COMPOSITION (NORMALISED %) OF C₁₅₊ SATURATE (PARAFFIN - NAPHTHENE) HYDROCARBONS

GEOCHEM SAMPLE NUMBER	001A	002A	003A	004A	005A	006A
DEPTH	2334m	2337.25m	2341m	2345.5m	2347.5m	2349.75m
SAMPLE TYPE						
nC15	9.45	9.31	8.03	8.71	10.35	3.65
nC16	11.70	9.48	9.69	9.64	11.11	6.19
nC17	12.18	10.02	9.49	9.35	10.25	7.37
nC18	10.89	9.46	9.34	9.59	10.11	8.49
nC19	11.03	9.59	11.88	9.54	9.86	10.55
nC20	10.37	9.98	10.21	9.72	10.12	11.97
nC21	7.97	8.50	9.36	8.48	8.22	11.30
nC22	6.77	7.77	7.63	7.77	8.09	9.47
nC23	6.16	8.29	6.74	6.89	6.20	8.18
nC24	4.68	5.49	5.66	6.52	4.59	6.84
nC25	3.12	4.82	4.43	5.07	4.51	5.21
nC26	2.56	3.22	2.90	3.63	2.39	3.93
nC27	1.87	2.13	2.24	2.03	2.08	3.30
nC28	1.03	1.25	1.18	1.69	0.84	1.90
nC29	0.20	0.59	0.78	0.85	0.81	1.06
nC30	0.03	0.09	0.22	0.24	0.37	0.29
nC31	0.00	0.01	0.15	0.11	0.09	0.16
nC32	0.00	0.00	0.07	0.11	0.00	0.12
nC33	0.00	0.00	0.00	0.07	0.00	0.00
nC34	0.00	0.00	0.00	0.00	0.00	0.00
nC35	0.00	0.00	0.00	0.00	0.00	0.00
Paraffin	32.09	29.61	30.85	29.87	33.60	25.26
Isoprenoid	7.32	6.23	6.38	5.45	7.14	3.45
Naphthene	60.59	64.16	62.77	64.68	59.26	71.29
CPI 1 Index	1.03	1.12	1.09	0.98	1.08	1.07
CPI 2 Index	1.03	1.20	1.25	1.04	1.50	1.16
CPI 3 Index	1.04	0.95	1.10	0.76	1.29	1.13
Prist/Phytane	1.62	1.41	1.42	1.59	1.35	1.47
Prist/nC17	0.60	0.82	0.83	0.70	0.75	0.75
Phytane/nC18	0.42	0.62	0.60	0.43	0.56	0.44

Job Number : 5834

$$C.P.I. 1 = \frac{1}{2} \left[\frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{20} + C_{22} + C_{24} + C_{26}} + \frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{22} + C_{24} + C_{26} + C_{28}} \right]$$

$$C.P.I. 2 = \frac{1}{2} \left[\frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{24} + C_{26} + C_{28} + C_{30}} + \frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{26} + C_{28} + C_{30} + C_{32}} \right]$$

$$C.P.I. 3 = \frac{2 \times (C_{27})}{C_{26} + C_{28}}$$

CT - ditch cuttings CO - core SWC - sidewall core

TABLE 10
COMPOSITION (NORMALISED %) OF C₁₅₊ SATURATE (PARAFFIN - NAPHTHENE) HYDROCARBONS

GEOCHEM SAMPLE NUMBER	007A	008A	009A	010A	011A	012A
DEPTH	2351m	2353m	2354.5m	2355.5m	2356.25m	2357m
SAMPLE TYPE						
nC15	0.49	0.44	1.14	2.41	1.95	1.61
nC16	0.87	0.90	1.83	2.54	1.95	5.30
nC17	3.00	2.85	3.50	3.20	2.62	6.45
nC18	5.54	4.91	5.73	4.77	4.66	6.45
nC19	7.50	6.68	7.53	6.61	6.57	6.68
nC20	8.98	9.05	9.16	8.76	9.09	8.53
nC21	9.38	9.80	9.97	9.92	9.32	8.29
nC22	9.73	9.73	9.48	10.90	10.94	9.45
nC23	8.27	9.15	9.56	8.88	10.31	9.22
nC24	7.76	8.40	8.22	8.22	8.70	8.29
nC25	7.83	7.54	7.80	7.28	7.50	7.60
nC26	6.87	6.05	6.50	6.37	6.53	6.45
nC27	5.64	5.61	5.19	5.29	5.97	5.07
nC28	4.86	5.08	4.11	4.39	4.20	4.38
nC29	4.24	4.33	3.47	3.63	3.71	3.69
nC30	2.98	3.04	2.39	2.47	2.23	1.84
nC31	2.47	2.31	1.70	1.80	1.48	0.69
nC32	1.34	1.39	0.95	0.93	0.78	0.00
nC33	1.11	1.27	0.84	0.80	0.70	0.00
nC34	0.74	0.97	0.63	0.58	0.53	0.00
nC35	0.39	0.51	0.30	0.28	0.27	0.00
Paraffin	34.74	26.13	26.39	28.60	30.63	22.93
Isoprenoid	2.01	1.72	2.14	2.96	2.48	3.83
Naphthene	63.25	72.15	71.47	68.44	66.89	73.24
CPI 1 Index	1.00	1.03	1.06	0.98	1.01	0.99
CPI 2 Index	1.08	1.07	1.08	1.06	1.11	1.08
CPI 3 Index	0.96	1.01	0.98	0.98	1.11	0.94
Prist/Phytane	0.85	0.77	1.03	1.14	1.02	1.35
Prist/nC17	0.74	0.97	0.92	1.25	1.13	0.96
Phytane/nC18	0.47	0.74	0.54	0.73	0.63	0.71

Job Number : 5834

$$C.P.I. 1 = \frac{1}{2} \left[\frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{20} + C_{22} + C_{24} + C_{26}} + \frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{22} + C_{24} + C_{26} + C_{28}} \right]$$

$$C.P.I. 2 = \frac{1}{2} \left[\frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{24} + C_{26} + C_{28} + C_{30}} + \frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{26} + C_{28} + C_{30} + C_{32}} \right]$$

$$C.P.I. 3 = \frac{2 \times (C_{27})}{C_{26} + C_{28}}$$

CT - ditch cuttings CO - core SWC - sidewall core

TABLE 10
COMPOSITION (NORMALISED %) OF C₁₅₊ SATURATE (PARAFFIN - NAPHTHENE) HYDROCARBONS

GEOCHEM SAMPLE NUMBER	013A	014A	015A	016A	017A	018A
DEPTH	2360m	2363m	2365.5m	2367m	2369m	2372m
SAMPLE TYPE						
nC15	1.39	0.61	1.06	1.68	0.92	1.18
nC16	2.23	1.06	2.90	1.76	2.46	3.59
nC17	3.40	2.41	5.04	2.84	3.76	6.67
nC18	5.65	4.47	6.60	5.04	6.52	7.58
nC19	7.14	6.75	7.64	8.06	8.13	9.95
nC20	9.17	8.78	8.92	9.51	9.45	9.36
nC21	9.41	10.09	9.96	9.35	9.64	9.64
nC22	9.22	10.52	9.60	9.41	8.60	8.53
nC23	8.25	9.30	7.51	9.12	8.62	7.46
nC24	8.55	9.30	8.03	8.55	8.20	6.59
nC25	6.73	7.79	7.06	8.09	7.65	6.40
nC26	6.44	7.01	5.80	6.15	5.74	5.25
nC27	5.46	6.44	5.31	5.99	5.39	4.56
nC28	4.74	4.62	3.84	4.37	3.78	3.41
nC29	4.07	4.11	3.40	3.88	3.54	3.26
nC30	2.61	2.48	2.48	2.43	2.43	2.09
nC31	2.05	1.79	1.78	1.63	1.91	1.69
nC32	1.16	0.90	1.01	0.78	1.13	0.93
nC33	1.07	0.77	0.94	0.65	1.02	0.85
nC34	0.81	0.53	0.73	0.47	0.73	0.66
nC35	0.44	0.26	0.40	0.26	0.38	0.35
Paraffin	22.56	27.89	23.12	29.72	21.57	23.53
Isoprenoid	1.93	1.93	2.61	2.75	2.19	2.94
Naphthene	75.51	70.18	74.27	67.53	76.24	73.53
CPI 1 Index	0.96	1.01	1.01	1.06	1.08	1.06
CPI 2 Index	1.02	1.10	1.10	1.17	1.17	1.14
CPI 3 Index	0.98	1.11	1.10	1.14	1.13	1.05
Prist/Phytane	1.05	0.93	1.07	1.01	1.23	1.14
Prist/nC17	1.04	1.05	0.95	1.15	1.14	0.74
Phytane/nC18	0.60	0.61	0.68	0.64	0.53	0.57

Job Number : 5834

$$C.P.I. 1 = \frac{1}{2} \left[\frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{20} + C_{22} + C_{24} + C_{26}} + \frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{22} + C_{24} + C_{26} + C_{28}} \right]$$

$$C.P.I. 2 = \frac{1}{2} \left[\frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{24} + C_{26} + C_{28} + C_{30}} + \frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{26} + C_{28} + C_{30} + C_{32}} \right]$$

$$C.P.I. 3 = \frac{2 \times (C_{27})}{C_{26} + C_{28}}$$

CT - ditch cuttings CO - core SWC - sidewall core

TABLE 10
COMPOSITION (NORMALISED %) OF C₁₅₊ SATURATE (PARAFFIN - NAPHTHENE) HYDROCARBONS

GEOCHEM SAMPLE NUMBER	019A	020A	021A	022A	023A	024A
DEPTH	2376m	2379m	2382m	2383.75m	2386m	2390.5m
SAMPLE TYPE						
nC15	2.94	3.23	5.38	4.64	2.12	13.53
nC16	4.85	5.87	5.86	7.16	3.46	12.30
nC17	4.58	7.63	6.59	6.36	5.21	9.23
nC18	5.73	7.77	7.23	7.42	8.15	7.38
nC19	5.89	8.77	8.74	6.10	9.15	6.15
nC20	7.62	8.77	8.48	8.62	9.97	7.18
nC21	8.73	8.65	9.32	9.07	9.01	6.77
nC22	8.83	7.87	8.75	9.02	8.36	7.18
nC23	7.32	6.79	7.58	7.56	8.19	6.36
nC24	8.42	6.75	7.75	7.69	7.06	5.40
nC25	7.24	5.91	6.80	6.76	6.47	5.29
nC26	6.39	5.36	5.19	5.04	5.58	3.49
nC27	5.69	4.40	4.64	4.64	4.73	3.08
nC28	4.48	3.35	3.23	3.45	3.49	1.85
nC29	4.20	2.99	2.58	2.92	2.84	1.44
nC30	2.94	2.04	1.34	1.72	2.23	0.82
nC31	2.19	1.52	0.54	0.93	1.47	0.29
nC32	0.86	0.88	0.02	0.22	0.82	0.53
nC33	0.42	0.76	0.00	0.25	0.79	0.69
nC34	0.46	0.51	0.00	0.28	0.58	0.66
nC35	0.22	0.19	0.00	0.17	0.31	0.41
Paraffin	23.70	29.27	24.49	23.46	22.96	28.11
Isoprenoid	4.14	4.28	4.66	5.41	3.08	8.69
Naphthene	72.16	66.45	70.85	71.13	73.96	63.20
CPI 1 Index	0.98	1.00	1.04	1.02	1.04	1.06
CPI 2 Index	1.09	1.06	1.16	1.16	1.06	1.19
CPI 3 Index	1.05	1.01	1.10	1.09	1.04	1.15
Prist/Phytane	1.13	1.42	1.49	1.58	1.18	2.12
Prist/nC17	1.22	0.87	1.20	1.25	0.93	1.22
Phytane/nC19	0.86	0.60	0.73	0.68	0.50	0.72

Job Number : 5834

$$C.P.I. 1 = \frac{1}{2} \left[\frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{20} + C_{22} + C_{24} + C_{26}} + \frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{22} + C_{24} + C_{26} + C_{28}} \right]$$

$$C.P.I. 2 = \frac{1}{2} \left[\frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{24} + C_{26} + C_{28} + C_{30}} + \frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{26} + C_{28} + C_{30} + C_{32}} \right]$$

$$C.P.I. 3 = \frac{2 \times (C_{27})}{C_{26} + C_{28}}$$

CT - ditch cuttings CO - core SWC - sidewall core

TABLE 10
COMPOSITION (NORMALISED %) OF C₁₅₊ SATURATE (PARAFFIN - NAPHTHENE) HYDROCARBONS

GEOCHEM SAMPLE NUMBER	025A	026A	027A	028A	029A	030A
DEPTH	2391.5m	2392.75m	2393m	2393.5m	2394.5m	2394.75m
SAMPLE TYPE						
nC15	11.81	4.71	3.88	20.84	1.07	3.96
nC16	11.30	6.80	5.95	21.62	2.73	6.29
nC17	10.64	6.79	6.94	16.65	5.13	7.43
nC18	10.21	7.39	8.27	11.11	7.34	8.59
nC19	9.76	8.88	9.69	7.34	8.85	10.05
nC20	8.32	9.14	10.12	5.33	10.30	9.87
nC21	7.95	8.35	8.62	3.49	10.07	9.48
nC22	8.04	8.37	8.12	2.75	9.54	7.90
nC23	5.84	6.73	6.79	2.01	8.27	7.04
nC24	4.44	7.13	5.95	1.80	7.08	5.67
nC25	3.58	6.13	5.39	1.62	5.83	5.18
nC26	2.48	4.81	4.63	1.09	5.22	4.32
nC27	2.00	4.28	4.21	1.16	4.53	3.87
nC28	1.27	2.92	2.93	0.85	3.92	3.15
nC29	1.05	2.60	2.78	0.78	3.19	2.65
nC30	0.62	1.61	1.98	0.53	2.35	1.72
nC31	0.20	1.27	1.39	0.39	1.57	1.27
nC32	0.23	0.74	0.81	0.23	0.99	0.71
nC33	0.16	0.69	0.75	0.26	0.93	0.46
nC34	0.09	0.47	0.55	0.11	0.73	0.28
nC35	0.02	0.20	0.26	0.05	0.38	0.10
Paraffin	31.53	25.37	28.48	19.22	20.87	32.00
Isoprenoid	7.65	4.77	5.19	7.29	2.81	5.25
Naphthene	60.82	69.86	66.33	73.49	76.32	62.75
CPI 1 Index	1.01	0.98	1.01	1.02	1.00	1.07
CPI 2 Index	1.13	1.14	1.11	1.19	1.01	1.09
CPI 3 Index	1.07	1.11	1.11	1.20	0.99	1.04
Prist/Phytane	1.62	1.24	1.17	2.14	1.13	1.29
Prist/nC17	0.73	1.03	0.97	0.72	1.02	0.80
Phytane/nC18	0.47	0.77	0.70	0.50	0.63	0.54

Job Number : 5834

$$C.P.I. 1 = \frac{1}{2} \left[\frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{20} + C_{22} + C_{24} + C_{26}} + \frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{22} + C_{24} + C_{26} + C_{28}} \right]$$

$$C.P.I. 2 = \frac{1}{2} \left[\frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{24} + C_{26} + C_{28} + C_{30}} + \frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{26} + C_{28} + C_{30} + C_{32}} \right]$$

$$C.P.I. 3 = \frac{2 \times (C_{27})}{C_{26} + C_{28}}$$

CT - ditch cuttings CO - core SWC - sidewall core

TABLE 10
COMPOSITION (NORMALISED %) OF C₁₅₊ SATURATE (PARAFFIN - NAPHTHENE) HYDROCARBONS

GEOCHEM SAMPLE NUMBER	031A	032A	033A	034A	035A	036A
DEPTH	2395.75m	2395.9m	2396.25m	2396.75m	2398m	2400.5m
SAMPLE TYPE						
nC15	1.03	19.13	5.10	5.83	3.75	5.55
nC16	3.20	18.47	6.18	8.08	5.11	7.39
nC17	5.51	13.41	7.17	9.34	5.65	7.76
nC18	8.23	11.25	8.39	9.57	5.93	7.63
nC19	9.88	9.99	8.98	9.36	6.81	8.40
nC20	11.36	8.16	9.47	9.17	6.88	8.58
nC21	11.08	5.98	8.26	7.06	6.83	7.00
nC22	9.40	4.97	8.19	7.03	6.59	7.98
nC23	8.09	3.24	6.59	6.20	6.85	6.29
nC24	7.02	2.56	6.86	5.77	7.59	6.10
nC25	5.85	1.40	6.03	5.03	6.97	5.22
nC26	4.78	0.86	4.46	4.27	6.05	4.42
nC27	3.86	0.31	4.25	3.49	5.49	4.34
nC28	3.10	0.23	3.17	3.20	4.95	3.42
nC29	2.62	0.01	3.09	2.59	4.53	3.06
nC30	1.69	0.02	2.02	1.94	3.15	2.46
nC31	1.27	0.01	0.74	1.13	2.47	1.93
nC32	0.62	0.00	0.12	0.20	1.61	0.99
nC33	0.65	0.00	0.29	0.21	1.37	0.55
nC34	0.52	0.00	0.37	0.31	0.90	0.57
nC35	0.24	0.00	0.27	0.23	0.52	0.36
Paraffin	18.76	32.83	27.15	38.54	37.28	32.79
Isoprenoid	2.21	5.70	5.37	9.78	4.98	7.93
Naphthene	79.03	61.47	67.48	51.68	57.74	59.28
CPI 1 Index	1.04	0.96	0.99	0.95	1.00	0.94
CPI 2 Index	1.08	1.02	1.15	1.04	1.07	1.09
CPI 3 Index	0.98	0.57	1.11	0.93	1.00	1.11
Prist/Phytane	0.88	1.72	1.21	1.35	1.31	1.29
Prist/nC17	0.70	0.42	1.01	0.89	0.99	1.09
Phytane/nC18	0.54	0.29	0.71	0.64	0.72	0.86

Job Number : 5834

$$C.P.I. 1 = \frac{1}{2} \left[\frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{20} + C_{22} + C_{24} + C_{26}} + \frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{22} + C_{24} + C_{26} + C_{28}} \right]$$

$$C.P.I. 2 = \frac{1}{2} \left[\frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{24} + C_{26} + C_{28} + C_{30}} + \frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{26} + C_{28} + C_{30} + C_{32}} \right]$$

$$C.P.I. 3 = \frac{2 \times (C_{27})}{C_{26} + C_{28}}$$

CT - ditch cuttings CO - core SWC - sidewall core

TABLE 10
COMPOSITION (NORMALISED %) OF C₁₅₊ SATURATE (PARAFFIN - NAPHTHENE) HYDROCARBONS

GEOCHEM SAMPLE NUMBER	037A	038A	039A	040A	041A	042A
DEPTH	2400.75m	2401.75m	2402.25m	2403m	2403.75m	2404m
SAMPLE TYPE						
nC15	4.98	4.17	2.38	4.57	4.55	5.21
nC16	6.94	6.05	3.95	6.94	6.62	7.81
nC17	7.18	7.35	5.31	7.63	8.72	8.37
nC18	7.74	8.15	7.47	8.88	8.47	9.41
nC19	8.75	8.24	8.05	9.06	8.29	9.57
nC20	8.57	8.21	10.14	9.13	8.68	8.99
nC21	8.92	8.44	8.89	8.44	8.53	8.04
nC22	7.46	7.50	8.57	7.74	7.66	6.83
nC23	6.87	6.47	8.42	5.96	7.50	6.82
nC24	6.18	5.63	6.99	6.28	6.49	5.37
nC25	5.27	5.44	6.33	5.20	4.90	5.02
nC26	4.89	4.85	5.34	4.39	5.03	4.38
nC27	3.77	4.71	4.87	3.75	4.01	3.93
nC28	2.92	3.63	3.77	2.99	3.28	2.96
nC29	2.87	3.65	3.44	2.82	3.12	2.83
nC30	2.03	2.61	2.31	1.73	2.10	1.82
nC31	1.48	1.99	1.57	1.70	0.96	1.35
nC32	0.91	1.15	0.84	0.89	0.17	0.48
nC33	0.83	0.69	0.66	0.70	0.26	0.19
nC34	0.77	0.61	0.48	0.65	0.39	0.30
nC35	0.68	0.47	0.22	0.57	0.27	0.31
Paraffin	28.73	33.30	22.47	29.44	37.34	46.17
Isoprenoid	5.64	6.87	3.39	6.15	9.00	9.51
Naphthene	65.63	59.83	74.14	64.41	53.66	44.32
CPI 1 Index	1.04	1.06	1.04	0.97	1.00	1.07
CPI 2 Index	1.04	1.12	1.10	1.11	1.00	1.13
CPI 3 Index	0.97	1.11	1.07	1.02	0.97	1.07
Prist/Phytane	1.37	1.13	1.28	1.36	1.36	1.42
Prist/nC17	1.07	1.00	1.03	1.06	0.98	0.86
Phytane/nC18	0.72	0.79	0.57	0.67	0.74	0.54

Job Number : 5834

$$C.P.I. 1 = \frac{1}{2} \left[\frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{20} + C_{22} + C_{24} + C_{26}} + \frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{22} + C_{24} + C_{26} + C_{28}} \right]$$

$$C.P.I. 2 = \frac{1}{2} \left[\frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{24} + C_{26} + C_{28} + C_{30}} + \frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{26} + C_{28} + C_{30} + C_{32}} \right]$$

$$C.P.I. 3 = \frac{2 \times (C_{27})}{C_{26} + C_{28}}$$

CT - ditch cuttings CO - core SWC - sidewall core

TABLE 10
COMPOSITION (NORMALISED %) OF C₁₅₊ SATURATE (PARAFFIN - NAPHTHENE) HYDROCARBONS

GEOCHEM SAMPLE NUMBER	043A	044A	045A	046A	047A	048A
DEPTH	2404.5m	2404.75m	2405m	2406.25m	2406.5m	2407.5m
SAMPLE TYPE						
nC15	5.12	0.30	0.07	0.99	0.92	1.64
nC16	6.68	2.00	0.46	1.83	1.68	2.36
nC17	6.05	4.02	2.07	3.38	2.77	2.73
nC18	6.83	6.47	4.64	5.63	4.46	4.54
nC19	8.47	7.19	6.09	8.02	7.28	6.18
nC20	8.48	8.53	7.90	9.15	10.00	8.72
nC21	8.80	8.26	8.33	9.20	9.84	10.17
nC22	7.57	7.29	8.76	10.70	11.41	10.90
nC23	6.80	6.76	8.49	9.29	10.54	10.54
nC24	6.68	7.59	7.83	9.57	8.97	9.63
nC25	5.99	7.06	8.53	7.60	7.83	8.72
nC26	4.86	6.32	6.65	5.91	6.52	7.45
nC27	4.21	6.03	7.08	5.35	5.11	5.27
nC28	3.40	5.42	6.16	4.22	4.02	3.82
nC29	2.89	5.12	5.73	3.66	3.37	3.09
nC30	2.11	3.71	4.15	2.11	2.23	1.82
nC31	1.64	2.82	2.67	1.41	1.25	1.09
nC32	1.04	1.71	1.51	0.70	0.71	0.55
nC33	1.00	1.54	1.32	0.65	0.54	0.36
nC34	0.84	1.20	1.02	0.42	0.38	0.26
nC35	0.54	0.67	0.56	0.22	0.16	0.18
Paraffin	29.52	19.70	17.15	23.79	21.46	20.10
Isoprenoid	4.72	2.44	1.38	2.32	2.21	1.58
Naphthene	65.76	77.86	81.47	73.89	76.33	78.32
CPI 1 Index	1.04	1.00	1.07	0.96	0.99	1.02
CPI 2 Index	1.08	1.07	1.13	1.11	1.06	1.07
CPI 3 Index	1.02	1.03	1.11	1.06	0.97	0.94
Prist/Phytane	1.23	0.97	0.61	0.99	1.02	0.99
Prist/nC17	0.96	1.25	1.19	1.04	1.29	0.95
Phytane/nC18	0.69	0.80	0.87	0.63	0.79	0.57

Job Number : 5834

$$C.P.I. 1 = \frac{1}{2} \left[\frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{20} + C_{22} + C_{24} + C_{26}} + \frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{22} + C_{24} + C_{26} + C_{28}} \right]$$

$$C.P.I. 2 = \frac{1}{2} \left[\frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{24} + C_{26} + C_{28} + C_{30}} + \frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{26} + C_{28} + C_{30} + C_{32}} \right]$$

$$C.P.I. 3 = \frac{2 \times (C_{27})}{C_{26} + C_{28}}$$

CT - ditch cuttings CO - core SWC - sidewall core

TABLE 10
COMPOSITION (NORMALISED %) OF C₁₅₊ SATURATE (PARAFFIN - NAPHTHENE) HYDROCARBONS

GEOCHEM SAMPLE NUMBER	049A	050A	051A
DEPTH	2408m	2408.5m	2409m
SAMPLE TYPE			
nC15	5.48	1.44	15.68
nC16	6.81	1.69	14.52
nC17	6.15	1.85	11.33
nC18	6.31	3.21	9.60
nC19	6.15	4.41	9.29
nC20	8.31	6.90	7.60
nC21	8.81	9.07	7.16
nC22	8.97	10.83	5.90
nC23	7.64	9.71	4.60
nC24	8.14	9.63	4.21
nC25	6.48	8.51	3.30
nC26	4.65	7.30	2.83
nC27	4.49	6.66	2.06
nC28	3.49	4.98	1.40
nC29	2.99	4.57	0.41
nC30	1.99	3.37	0.05
nC31	1.00	2.33	0.06
nC32	0.83	1.36	0.00
nC33	0.74	1.04	0.00
nC34	0.33	0.72	0.00
nC35	0.22	0.40	0.00
Paraffin	19.38	21.93	26.86
Isoprenoid	4.89	1.29	6.81
Naphthene	75.73	76.78	66.33
CPI 1 Index	1.00	1.01	1.01
CPI 2 Index	1.09	1.09	1.02
CPI 3 Index	1.10	1.08	0.97
Prist/Phytane	1.46	0.89	1.52
Prist/nC17	1.38	1.04	0.82
Phytane/nC18	0.92	0.68	0.63

Job Number : 5834

$$C.P.I. 1 = \frac{1}{2} \left[\frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{20} + C_{22} + C_{24} + C_{26}} + \frac{C_{21} + C_{23} + C_{25} + C_{27}}{C_{22} + C_{24} + C_{26} + C_{28}} \right]$$

$$C.P.I. 2 = \frac{1}{2} \left[\frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{24} + C_{26} + C_{28} + C_{30}} + \frac{C_{25} + C_{27} + C_{29} + C_{31}}{C_{26} + C_{28} + C_{30} + C_{32}} \right]$$

$$C.P.I. 3 = \frac{2 \times (C_{27})}{C_{26} + C_{28}}$$

CT - ditch cuttings CO - core SWC - sidewall core

TABLE 11
 CARBON ISOTOPE COMPOSITIONS (‰, PDB)

JOB 5834								
GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY	TOTAL EXTRACT WHOLE OIL	SATURATES	AROMATICS	NSO	ASPHALTENES	KEROGEN	PYROLYSATE (S2)

WELL: 7122/4-1 CORES

5834-043A	CORE 2404.50m	-29.03	-29.73	-28.22	-27.86	-28.33		
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