

**Exploration Division
STNN - LET**

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Title	OLJEDIREKTORATET PL-159 SPECIAL STUDY GEOCHEMICAL CHARACTERIZATION OF THE HC IN THE CORED RESERVOIR INTERVALS IN WELL 6507/3-1
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Key words	Organic geochemistry, reservoir HC, characterization
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Abstract	<ul style="list-style-type: none"> - The samples has been analyzed by GEOCHEM LAB (extraction, separation and gaschromatography). - 5 selected samples were analyzed by Statoil Geolab on GC-MS (Biomarker analysis). - Interpretation has been carried out by Statoil in Harstad.
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BA-91 - 1221-1

S No.	Core depth (MD)RKB	Formation	Lithology
5402	3697.5		sst
5403	3772.75		sst (c-f, csst)
5404	3773.08		sst
5405	3774.5		sst (vc)
5406	3776.45		sst
5407	3776.61		sst dark sharp div.
5408	3776.64		sst light betw. these
5409	3777.25		sst
5410	3778.1		sst
5411	3779.33		sst
5412	3782.1		sst
5413	3784.46		sst
5414	3785.4		sst
541	3786.18		sst
5416	3787.4		sst
5417	3790.25		sst
5418	3792.33		sst
5419	3793.45		sst (vc/gravel)
5420	3794.6		sst
5421	3796.5		sst
5422	3801.55		sst
5423	3804.65		sst
5424	3807.8		sst
5425	3814.18		sst/sd
5426	3818.05		sst
5427	3823.75		sst
5428	3827.42		sst
5429	3829.45		sst
5430	3833.7		sst
5431	3838.7		sst
5432	3842.4		sst
5433	3994.2		sst
5434	3997.85		sst
5435	3998.8		sst
5436	4008.6		sst
5437	4010.9		sst
5438	4014.92		sst

Table 1B

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S No.	Core depth (MD)RKB	Formation	Lithology
5364	3612.18		sst
5365	3612.43		sst
5366	3613.09		sst
5367	3613.55		sst
5368	3614.55		sst
5369	3615.5		sst
5370	3617.1		sst
5371	3617.75		sst
5372	3620.25		sst
5373	3622.55		sst
5374	3625.35		sst
5375	3628.5		sst
5376	3631.6		sst
5377	3634.4		sst
5378	3637.3		sst
5379	3638.3		sst
5380	3640.38		sst
5381	3643.25		sst
5382	3644.54		sst
5383	3645.75		sst
5384	3647.32		sst/csst, lam
5385	3652.9		sst/csst
5386	3660.44		sh from tight zone between c# 2 and 7
5387	3671.55		sst/csst
5388	3673.12		sst
5389	3676.95		sst/csst
5390	3677.55		sst/csst
5391	3679.8		sst
5392	3680.9		sst
5393	3683.37		sst
5394	3685.4		sst (csst)
5395	3687.7		sst
5396	3690.33		sst
5397	3691.5		sst
5398	3692.38		sst
5399	3693.4		sst
5400	3694.95		sst
5401	3696.5		sst

Table 1A

TABLE 1 MOLECULAR RATIOS FROM STERANE AND TERPANE MASS CHROMATOGRAMS. MATURITY AND SOURCE CHARACTERISTIC RATIOS.

DEPTH mRKB	SAMPLE No	% Ts ¹	29A/30A ²	%27 ³ f+g	%28 f+g	%29 f+g	δ 22S ⁴
3617.25	S5371	61.36	0.43	19.5	29.1	51.4	1.39
3645.75	S5383	67.65	0.33	18.2	28.9	52.9	1.32
3687.70	S5395	60.47	0.43	17.8	27.7	54.5	1.34
3786.18	S5415	57.14	0.46	16.5	27.2	56.3	1.16
3833.70	S5430	60.53	0.44	22.4	25.6	52.0	1.19

1) $100 \times 27A / (27A + 27B)$ in m/z 191.

2) 29A/30A in m/z 191.

3) Weight % distribution of C27, C28 and C29 steranes in m/z 218 (27f+27g, 28f+28g, 29f+29g).

4) $[(31A/32A) + (32A/33A) + (33A/34A)] / 3$ in m/z 191.

TABLE 2 MOLECULAR RATIOS FROM STERANE AND TERPANE MASS
CHROMATOGRAMS. MATURITY RATIOS.

DEPTH mRKB	SAMPLE No	$\alpha\beta/\alpha\beta+\beta\alpha^a$	% 22S ^b	% $\beta\beta^c$	% 20S ^d	Ttx ^e
3617.25	S5371	89.15	59.80	66.73	50.00	72.41
3645.75	S5383	91.53	60.62	68.75	53.60	73.17
3687.70	S5395	88.00	58.94	63.93	47.09	78.43
3786.18	S5415	91.25	58.75	65.76	52.76	68.89
3833.70	S5430	91.53	60.69	65.18	52.70	71.15

a) $100 \cdot 30A / (30A + 30B)$ in m/z 191.

b) $100 \cdot [\{ 31A / (31A + 31B) \} + \{ 32A / (32A + 32B) \} + \{ 33A / (33A + 33B) \}] / 3$ in
m/z 191.

c) $100 \cdot (29f + 29g) / (29f + 29g + 29e + 29h)$ in m/z 217.

d) $100 \cdot 29e / (29e + 29h)$ in m/z 217.

e) $100 \cdot x / (x + 29B)$ in m/z 191.

TABLE 3 PEAK HEIGHTS OF TRITERPANES FROM M/Z 191.

DEPTH mRKB	SAMPLE No	27A	27B	29A	X	29B	30A	30B	31A	31B	32A	32B	33A	33B	34A
3617.25	S5371	27	17	99	42	16	230	28	93	65	69	45	51	34	35
3645.75	S5383	23	11	72	30	11	216	20	86	55	69	43	48	33	38
3687.70	S5395	26	17	95	40	11	220	30	104	74	85	59	57	39	44
3786.18	S5415	20	15	101	31	14	219	21	92	65	85	62	76	51	59
3833.70	S5430	23	15	96	37	15	216	20	80	50	64	41	56	38	47

TABLE 4 PEAK HEIGHTS OF STERANES FROM M/Z 217.

DEPTH	SAMPLE	29e	29f	29g	29h
mRKB	No				
3617.25	S5371	82	176	153	82
3645.75	S5383	67	160	115	58
3687.70	S5395	89	183	152	100
3786.18	S5415	86	168	145	77
3833.70	S5430	78	165	112	70

TABLE 5 PEAK HEIGHTS OF STERANES FROM M/Z 218.

DEPTH	SAMPLE	27f	27g	28f	28g	29f	29g
mRKB	No						
3096	S5016	171	150	197	155	95	94
3617.25	S5371	82	68	116	108	199	196
3645.75	S5383	60	63	110	85	174	183
3687.70	S5393	65	64	106	95	207	188
3786.18	S5415	65	51	92	99	198	198
3833.70	S5430	87	66	86	89	187	168

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TABLE 1
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

JOB 4436	DEPTH/ IDENTITY	GROSS LITHOLOGIC DESCRIPTION	G S A COLOUR CODE	TOTAL ORGANIC CARBON (Wt. %)
GEOCHEM SAMPLE NUMBER				

WELL: CORES

4436-001	S 5364	A100% SANDSTONE - med coarse grained, firm, micaceous, no F, no C, yellowish grey.	5Y8/1	
4436-002	S 5365	A100% SANDSTONE - as 4436-001A, yellowish grey.	5Y8/1	
4436-003	S 5366	A100% SANDSTONE - as 4436-001A, yellowish grey.	5Y8/1	
4436-004	S 5367	A100% SANDSTONE - as 4436-001A, yellowish grey.	5Y8/1	
4436-005	S 5368	A100% SANDSTONE - as 4436-001A, yellowish grey.	5Y8/1	
4436-006	S 5369	A100% SANDSTONE - med to coarse grained, mod soft, micaceous, no F, no C, yellowish grey.	5Y8/1	
4436-007	S 5370	A100% SANDSTONE - as 4436-006A, yellowish grey.	5Y8/1	
4436-008	S 5371	A100% SANDSTONE - as 4436-006A, yellowish grey.	5Y8/1	
4436-009	S 5372	A100% SANDSTONE - as 4436-006A, yellowish grey.	5Y8/1	
4436-010	S 5373	A100% SANDSTONE - as 4436-006A, yellowish grey.	5Y8/1	
4436-011	S 5374	A100% SANDSTONE - fine to medium grained, mod soft, sl micaceous, no F, no C, yellowish grey.	5Y8/1	
4436-012	S 5375	A100% SANDSTONE - as 4436-011A, yellowish grey.	5Y8/1	
4436-013	S 5376	A100% SANDSTONE - as 4436-011A, yellowish grey.	5Y8/1	
4436-014	S 5377	A100% SANDSTONE - fine to med grained, firm, micaceous, bituminous, no F, no C, pale yellowish brown.	10YR6/2	
4436-015	S 5378	A100% SANDSTONE - as 4436-014A, pale yellowish brown.	10YR6/2	
4436-016	S 5379	A100% SANDSTONE - as 4436-014A, 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 4436				
GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY	GROSS LITHOLOGIC DESCRIPTION	G S A COLOUR CODE	TOTAL ORGANIC CARBON (Wt. %)
4436-017	S 5380	A100% SANDSTONE - as 4436-014A, pale yellowish brown.	10YR6/2	
4436-018	S 5381	A100% SANDSTONE - as 4436-014A, pale yellowish brown.	10YR6/2	
4436-019	S 5382	A100% SANDSTONE - fine to medium grained, firm, micaceous, bituminous(?), no F, no C, pale yellowish brown.	10YR6/2	
4436-020	S 5383	A100% SANDSTONE - as 4436-019A, pale yellowish brown.	10YR6/2	
4436-021	S 5384	A100% SANDSTONE - as 4436-019A, pale yellowish brown.	10YR6/2	
4436-022	S 5385	A100% SANDSTONE - as 4436-019A, pale yellowish brown.	10YR6/2	
4436-023	S 5386	A100% CLAYSTONE - fissile to platy, firm, non calc, micaceous, greyish black to dark grey.		N2 - N3
4436-024	S 5387	A100% SANDSTONE - fine grained, firm, micaceous, bituminous(?), no F, no C, pale yellowish brown.	10YR6/2	
4436-025	S 5388	A100% SANDSTONE - as 4436-024A, pale yellowish brown.	10YR6/2	
4436-026	S 5389	A100% SANDSTONE - as 4436-024A, pale yellowish brown.	10YR6/2	
4436-027	S 5390	A100% SANDSTONE - as 4436-024A, pale yellowish brown.	10YR6/2	
4436-028	S 5391	A100% SANDSTONE - as 4436-024A, pale yellowish brown.	10YR6/2	
4436-029	S 5392	A100% SANDSTONE - fine grained, firm, micaceous, bituminous(?), no F, no C, pale yellowish brown.	10YR6/2	
4436-030	S 5393	A100% SANDSTONE - as 4436-029A, pale yellowish brown.	10YR6/2	
4436-031	S 5394	A100% SANDSTONE - as 4436-029A, pale yellowish brown.	10YR6/2	
4436-032	S 5395	A100% SANDSTONE - as 4436-029A, pale yellowish brown.	10YR6/2	

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TABLE 1
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

JOB 4436				
GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY	GROSS LITHOLOGIC DESCRIPTION	G S A COLOUR CODE	TOTAL ORGANIC CARBON (Wt. %)
4436-033	S 5396	A100% SANDSTONE - as 4436-029A, pale yellowish brown.	10YR6/2	
4436-034	S 5397	A100% SANDSTONE - fine grained, firm, sl micaceous, bituminous(?), no F, no C, pale yellowish brown.	10YR6/2	
4436-035	S 5398	A100% SANDSTONE - fine grained, hard, sl micaceous, no F, no C, yellowish grey.	5Y8/1	
4436-036	S 5399	A100% SANDSTONE - as 4436-035A, yellowish grey.	5Y8/1	
4436-037	S 5400	A100% SANDSTONE - as 4436-035A, yellowish grey.	5Y8/1	
4436-038	S 5401	A100% SANDSTONE - as 4436-035A, yellowish grey.	5Y8/1	
4436-039	S 5402	A100% SANDSTONE - as 4436-035A, yellowish grey.	5Y8/1	
4436-040	S 5403	A100% SANDSTONE - med grained, hard, sl micaceous, partly arg, no F, no C, yellowish grey.	5Y8/1	
4436-041	S 5404	A100% SANDSTONE - as 4436-040A.		
4436-042	S 5405	A100% SANDSTONE - coarse grained, quartz in weathered(?) siliceous ground mass, bedded and interstitial carbonaceous material (bitumen?), light grey to white.	N7 N9	-
4436-043	S 5406	A100% SANDSTONE - med grained, firm, sl micaceous, no F, no C, pale yellowish brown.	10YR6/2	
4436-044	S 5407	A100% SANDSTONE - as 4436-043A, pale yellowish brown.	10YR6/2	
4436-045	S 5408	A100% SANDSTONE - as 4436-043A, pale yellowish brown.	10YR6/2	
4436-046	S 5409	A100% SANDSTONE - as 4436-043A, pale yellowish brown.	10YR6/2	
4436-047	S 5410	A100% SANDSTONE - as 4436-043A, 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 4436				
GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY	GROSS LITHOLOGIC DESCRIPTION	G S A COLOUR CODE	TOTAL ORGANIC CARBON (Wt. %)
4436-048	S 5411	A100% SANDSTONE - med grained, mod soft to firm, no F, no C, pale yellowish brown.	10YR6/2	
4436-049	S 5412	A100% SANDSTONE - fine to med grained, hard, sl micaceous, bituminous(?), no F, no C, pale yellowish brown.	10YR6/2	
4436-050	S 5413	A100% SANDSTONE - as 4436-049A, pale yellowish brown.	10YR6/2	
4436-051	S 5414	A100% SANDSTONE - fine to coarse grained, friable to firm, partly weathered, oolitic(?), no F, no C, pale yellowish brown.	10YR6/2	
4436-052	S 5415	A100% SANDSTONE - fine to med grained, firm to hard, no F, no C, pale yellowish brown.	10YR6/2	
4436-053	S 5416	A100% SANDSTONE - as 4436-052A, pale yellowish brown.	10YR6/2	
4436-054	S 5417	A100% SANDSTONE - fine grained, hard, sl micaceous, bituminous(?), no F, no C, very light grey.	N8	
4436-055	S 5418	A100% SANDSTONE - as 4436-054A, very light grey.	N8	
4436-056	S 5419	A100% SANDSTONE - as 4436-051A, pale yellowish brown.	10YR6/2	
4436-057	S 5420	A100% SANDSTONE - fine grained, v hard, sl micaceous, bituminous(?), no F, no C, very light grey.	N8	
4436-058	S 5421	A100% SANDSTONE - as 4436-057A, very light grey.	N8	
4436-059	S 5422	A100% SANDSTONE - as 4436-057A, very light grey.	N8	
4436-060	S 5423	A100% SANDSTONE - as 4436-057A, very light grey.	N8	
4436-061	S 5424	A100% SANDSTONE - as 4436-057A, very light grey.	N8	
4436-062	S 5425	A100% SANDSTONE - fine grained, v hard, sl micaceous, bituminous(?), very light grey.	N8	

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 4436				
GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY	GROSS LITHOLOGIC DESCRIPTION	G S A COLOUR CODE	TOTAL ORGANIC CARBON (Wt. %)
4436-063	S 5426	A100% SANDSTONE - as 4436-062A, very light grey.	N8	
4436-064	S 5427	A100% SANDSTONE - as 4436-062A, very light grey.	N8	
4436-065	S 5428	A100% SANDSTONE - as 4436-062A, very light grey.	N8	
4436-066	S 5429	A100% SANDSTONE - as 4436-062A, very light grey.	N8	
4436-067	S 5430	A100% SANDSTONE - fine grained, hard, sl micaceous, bituminous, very light grey.	N8	
4436-068	S 5431	A100% SANDSTONE - as 4436-067A, very light grey.	N8	
4436-069	S 5432	A100% SANDSTONE - as 4436-067A, very light grey.	N8	
4436-070	S 5433	A100% SANDSTONE - as 4436-067A, very light grey.	N8	
4436-071	S 5434	A100% SANDSTONE - as 4436-067A, very light grey.	N8	
4436-072	S 5435	A100% SANDSTONE - fine grained, hard to v hard, sl micaceous, bituminous, very light grey.	N8	
4436-073	S 5436	A100% SANDSTONE - as 4436-072A, very light grey.	N8	
4436-074	S 5437	A100% SANDSTONE - as 4436-072A, very light grey.	N8	
4436-075	S 5438	A100% SANDSTONE - as 4436-072A, very light grey.	N8	

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TABLE 2
STANDARD PYROLYSIS DATA

JOB 4436								
GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY	ORGANIC CARBON (%)	S0 (mg/g)	S1 (mg/g)	S2 (mg/g)	PRODN INDEX	HYDGN INDEX	TMAX (°C)

WELL: CORES

4436-001A	S 5364		0.01	0.10	0.20	0.32		402
4436-002A	S 5365		0.02	0.20	0.12	0.59		384
4436-003A	S 5366		0.03	0.28	0.14	0.62		401
4436-004A	S 5367		0.03	0.33	0.09	0.73		399
4436-005A	S 5368		0.02	0.30	0.14	0.65		405
4436-006A	S 5369		0.02	0.17	0.25	0.39		434
4436-007A	S 5370		0.02	0.25	0.19	0.54		392
4436-008A	S 5371		0.03	0.43	0.24	0.61		393
4436-009A	S 5372		0.02	0.27	0.12	0.66		412
4436-010A	S 5373		0.03	0.64	0.15	0.78		407
4436-011A	S 5374		0.02	0.25	0.35	0.40		420
4436-012A	S 5375		0.02	0.36	0.24	0.58		403
4436-013A	S 5376		0.03	0.18	0.23	0.41		390
4436-014A	S 5377		0.04	0.73	0.31	0.68		424
4436-015A	S 5378		0.05	0.33	0.29	0.49		417
4436-016A	S 5379		0.05	0.49	0.34	0.56		429
4436-017A	S 5380		0.04	0.47	0.42	0.51		433
4436-018A	S 5381		0.06	0.39	0.58	0.38		432
4436-019A	S 5382		0.06	0.55	0.18	0.70		369
4436-020A	S 5383		0.05	0.64	0.37	0.60		414
4436-021A	S 5384		0.07	1.04	0.94	0.51		440
4436-022A	S 5385		0.05	0.43	0.81	0.33		435
4436-023A	S 5386		0.07	0.47	2.46	0.16		443
4436-024A	S 5387		0.07	0.67	0.32	0.63		431
4436-025A	S 5388		0.06	0.58	0.23	0.67		430
4436-026A	S 5389		0.05	0.47	0.46	0.48		429
4436-027A	S 5390		0.06	0.37	0.49	0.40		433
4436-028A	S 5391		0.07	0.40	0.24	0.56		425
4436-029A	S 5392		0.04	0.53	0.31	0.60		436
4436-030A	S 5393		0.05	0.54	0.29	0.61		415
4436-031A	S 5394		0.08	0.68	0.32	0.63		423
4436-032A	S 5395		0.01	1.20	0.77	0.61		418
4436-033A	S 5396		0.06	1.59	0.58	0.71		431
4436-034A	S 5397		0.01	0.86	0.47	0.64		420
4436-035A	S 5398		0.02	0.47	0.30	0.59		410
4436-036A	S 5399		0.03	1.52	0.52	0.73		416
4436-037A	S 5400		0.06	2.90	0.57	0.82		412
4436-038A	S 5401		0.06	1.37	0.26	0.81		408
4436-039A	S 5402		0.06	1.26	0.37	0.75		409
4436-040A	S 5403		0.09	0.48	0.19	0.63		431
4436-041A	S 5404		0.09	1.40	0.73	0.63		414
4436-042A	S 5405		0.07	0.45	0.43	0.47		441
4436-043A	S 5406		0.05	2.21	0.69	0.75		415
4436-044A	S 5407		0.01	1.83	1.05	0.63		422
4436-045A	S 5408		0.06	1.87	0.81	0.68		417
4436-046A	S 5409		0.01	2.64	1.00	0.72		416
4436-047A	S 5410		0.01	3.10	0.90	0.77		414
4436-048A	S 5411		0.01	0.49	0.57	0.46		421
4436-049A	S 5412		0.01	0.83	0.67	0.55		428
4436-050A	S 5413		0.02	0.11	0.05	0.61		419
4436-051A	S 5414		0.01	1.01	0.82	0.55		421
4436-052A	S 5415		0.02	1.86	0.96	0.65		414
4436-053A	S 5416		0.02	1.40	0.64	0.68		409

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

HYDROGEN INDEX = 100 x S2 / TOC

S0 : 100°C (180secs)

S1 : 300°C (180secs)

S2 : 25°C / 10min + 1 min 550°C

TABLE 2
STANDARD PYROLYSIS DATA

JOB 4436								
GEOCHEM SAMPLE NUMBER	DEPTH/ IDENTITY	ORGANIC CARBON (%)	S0 (mg/g)	S1 (mg/g)	S2 (mg/g)	PRODN INDEX	HYDGN INDEX	TMAX (°C)
4436-054A	S 5417		0.03	0.18	0.26	0.38		441
4436-055A	S 5418		0.02	0.07	0.09	0.39		435
4436-056A	S 5419		0.10	0.48	0.13	0.68		429
4436-057A	S 5420		0.09	0.46	0.10	0.71		431
4436-058A	S 5421		0.07	0.38	0.87	0.29		443
4436-059A	S 5422		0.07	0.34	0.02	0.79		430
4436-060A	S 5423		0.04	0.38	0.23	0.58		435
4436-061A	S 5424		0.07	0.30	0.10	0.64		454
4436-062A	S 5425		0.05	0.69	0.14	0.78		418
4436-063A	S 5426		0.08	0.34	0.01	0.79		410
4436-064A	S 5427		0.06	0.43	0.04	0.81		557
4436-065A	S 5428		0.03	0.37	0.09	0.76		421
4436-066A	S 5429		0.06	0.29	0.09	0.66		432
4436-067A	S 5430		0.05	1.96	0.72	0.72		411
4436-068A	S 5431		0.12	0.70	0.05	0.80		424
4436-069A	S 5432		0.08	0.50	0.15	0.68		440
4436-070A	S 5433		0.06	0.34	0.09	0.69		449
4436-071A	S 5434		0.02	0.33	1.03	0.24		444
4436-072A	S 5435		0.06	0.31	0.04	0.76		433
4436-073A	S 5436		0.06	0.18	0.18	0.43		441
4436-074A	S 5437		0.06	0.27	0.14	0.57		435
4436-075A	S 5438		0.04	0.13	0.14	0.42		454

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 3
CONCENTRATION (PPM) OF EXTRACTED C₁₅₊ MATERIAL IN ROCK

JOB 4436 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
4436-001	S	5364	770	413	57	470	264	35	2	300
4436-002	S	5365	591	446	40	486	64	39	2	105
4436-003	S	5366	863	640	78	718	84	59	2	145
4436-004	S	5367	963	743	98	841	73	46	3	122
4436-005	S	5368	976	753	85	838	83	51	4	138
4436-006	S	5369	863	649	88	736	82	42	3	127
4436-007	S	5370	825	650	53	703	76	42	5	122
4436-008	S	5371	1460	1190	102	1291	84	77	8	169
4436-009	S	5372	1323	1060	94	1154	87	77	5	169
4436-010	S	5373	1399	1115	94	1208	99	86	6	190
4436-011	S	5374	920	694	66	760	109	46	4	159
4436-012	S	5375	1126	916	87	1003	33	86	4	123
4436-013	S	5376	1137	779	97	876	153	105	4	261
4436-014	S	5377	2220	1673	224	1897	157	157	9	323
4436-015	S	5378	1007	667	85	752	96	154	5	255
4436-016	S	5379	1583	1179	107	1285	139	157	2	298
4436-017	S	5380	1399	1075	110	1184	93	119	3	215
4436-018	S	5381	1297	860	132	992	165	139	2	306
4436-019	S	5382	1136	856	83	938	85	109	4	198
4436-020	S	5383	1835	1315	131	1446	213	172	4	389
4436-021	S	5384	1916	1408	166	1574	166	173	3	342
4436-022	S	5385	1650	1012	136	1148	330	169	4	502
4436-023	S	5386	1228	606	176	782	283	160	3	446
4436-024	S	5387	777	473	84	558	79	139	2	219
4436-025	S	5388	1042	740	107	846	86	105	5	196
4436-026	S	5389	1106	730	128	858	149	95	4	248
4436-027	S	5390	1554	1080	195	1275	138	134	7	279
4436-028	S	5391	962	643	96	738	121	97	3	221
4436-029	S	5392	1051	686	101	787	179	82	4	265
4436-030	S	5393	1508	1107	143	1249	76	175	8	259
4436-031	S	5394	1706	1286	158	1444	107	148	7	262
4436-032	S	5395	3059	2312	363	2675	129	243	12	384

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

TABLE 3
CONCENTRATION (PPM) OF EXTRACTED C₁₅₊ MATERIAL IN ROCK

JOB 4436 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
4436-033	S	5396	1663	1155	192	1348	122	188	5	315
4436-034	S	5397	2492	1898	247	2146	157	184	5	346
4436-035	S	5398	2328	1771	229	1999	144	175	10	329
4436-036	S	5399	4117	3212	467	3679	161	261	16	439
4436-037	S	5400	6714	5401	772	6173	111	402	27	541
4436-038	S	5401	3482	2726	368	3094	128	248	11	387
4436-039	S	5402	3811	3042	410	3452	87	264	8	359
4436-040	S	5403	616	308	97	405	129	79	3	210
4436-041	S	5404	4071	3200	421	3621	135	307	8	451
4436-042	S	5405	608	364	84	448	86	72	2	160
4436-043	S	5406	4336	3492	358	3850	118	358	9	486
4436-044	S	5407	4929	3907	411	4317	153	449	10	612
4436-045	S	5408	3706	2937	307	3244	133	321	8	462
4436-046	S	5409	5645	4546	465	5011	174	454	6	634
4436-047	S	5410	6338	5208	520	5729	138	452	19	610
4436-048	S	5411	2526	1823	193	2017	139	362	8	509
4436-049	S	5412	2676	2065	234	2299	160	206	11	377
4436-050	S	5413	359	201	22	222	64	72	2	137
4436-051	S	5414	4072	3343	335	3678	134	252	8	394
4436-052	S	5415	5536	4461	377	4838	142	544	12	698
4436-053	S	5416	3947	3091	253	3343	164	435	5	603
4436-054	S	5417	755	460	49	510	138	106	2	246
4436-055	S	5418	307	117	15	132	93	81	1	176
4436-056	S	5419	407	101	36	137	132	137	2	271
4436-057	S	5420	354	124	19	144	121	89	1	210
4436-058	S	5421	1024	273	94	367	420	236	2	657
4436-059	S	5422	272	98	10	107	109	56	1	165
4436-060	S	5423	435	217	23	240	104	89	2	195
4436-061	S	5424	308	80	13	93	74	140	2	215
4436-062	S	5425	272	109	10	119	70	81	2	153
4436-063	S	5426	239	100	7	107	69	61	3	132
4436-064	S	5427	259	114	9	123	62	73	2	136
4436-065	S	5428	248	110	10	120	59	69	1	128
4436-066	S	5429	306	172	15	187	69	49	1	119

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

TABLE 3
CONCENTRATION (PPM) OF EXTRACTED C₁₅₊ MATERIAL IN ROCK

JOB 4436 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
4436-067		S 5430	4173	3415	256	3671	173	316	13	502
4436-068		S 5431	320	160	15	175	73	71	2	145
4436-069		S 5432	429	224	22	247	78	103	2	182
4436-070		S 5433	234	70	14	84	77	71	2	149
4436-071		S 5434	922	379	118	498	244	177	4	425
4436-072		S 5435	382	175	18	192	59	128	2	189
4436-073		S 5436	403	108	27	135	140	126	2	268
4436-074		S 5437	733	405	29	433	234	63	3	300
4436-075		S 5438	377	144	11	155	142	76	4	222

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

TABLE 4
COMPOSITION (NORMALISED %) OF C₁₅₊ MATERIAL

JOB 4436 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: CORES

4436-001	S	5364	53.57	7.44	34.23	4.53	0.23
4436-002	S	5365	75.49	6.80	10.81	6.59	0.31
4436-003	S	5366	74.15	9.03	9.75	6.86	0.22
4436-004	S	5367	77.15	10.21	7.53	4.79	0.31
4436-005	S	5368	77.14	8.73	8.49	5.28	0.36
4436-006	S	5369	75.13	10.18	9.46	4.87	0.36
4436-007	S	5370	78.79	6.40	9.15	5.06	0.60
4436-008	S	5371	81.49	6.97	5.75	5.24	0.55
4436-009	S	5372	80.15	7.08	6.57	5.79	0.41
4436-010	S	5373	79.72	6.69	7.08	6.12	0.39
4436-011	S	5374	75.47	7.20	11.87	5.00	0.47
4436-012	S	5375	81.32	7.72	2.95	7.62	0.38
4436-013	S	5376	68.54	8.55	13.44	9.22	0.31
4436-014	S	5377	75.35	10.11	7.08	7.06	0.39
4436-015	S	5378	66.24	8.41	9.56	15.34	0.45
4436-016	S	5379	74.45	6.73	8.75	9.94	0.13
4436-017	S	5380	76.82	7.83	6.63	8.49	0.23
4436-018	S	5381	66.25	10.18	12.71	10.73	0.13
4436-019	S	5382	75.30	7.28	7.48	9.60	0.34
4436-020	S	5383	71.68	7.14	11.60	9.36	0.22
4436-021	S	5384	73.50	8.66	8.66	9.04	0.13
4436-022	S	5385	61.37	8.22	19.97	10.22	0.22
4436-023	S	5386	49.38	14.30	23.05	13.06	0.21
4436-024	S	5387	60.90	10.87	10.11	17.86	0.25
4436-025	S	5388	70.97	10.22	8.28	10.07	0.45
4436-026	S	5389	65.99	11.58	13.49	8.63	0.32
4436-027	S	5390	69.51	12.55	8.86	8.63	0.45
4436-028	S	5391	66.82	9.95	12.59	10.11	0.26
4436-029	S	5392	65.24	9.60	17.04	7.78	0.34
4436-030	S	5393	73.37	9.47	5.06	11.57	0.53
4436-031	S	5394	75.35	9.27	6.25	8.69	0.43
4436-032	S	5395	75.57	11.87	4.21	7.95	0.39
4436-033	S	5396	69.49	11.58	7.33	11.31	0.30
4436-034	S	5397	76.18	9.92	6.28	7.40	0.22
4436-035	S	5398	76.06	9.83	6.19	7.50	0.42
4436-036	S	5399	78.01	11.33	3.92	6.34	0.40
4436-037	S	5400	80.44	11.50	1.65	5.99	0.41
4436-038	S	5401	78.29	10.58	3.69	7.12	0.32
4436-039	S	5402	79.82	10.75	2.29	6.93	0.21
4436-040	S	5403	50.00	15.82	20.91	12.83	0.44
4436-041	S	5404	78.59	10.34	3.33	7.54	0.20
4436-042	S	5405	59.86	13.80	14.16	11.83	0.36
4436-043	S	5406	80.54	8.26	2.72	8.26	0.21
4436-044	S	5407	79.26	8.33	3.10	9.10	0.21
4436-045	S	5408	79.25	8.28	3.58	8.67	0.22
4436-046	S	5409	80.53	8.23	3.09	8.04	0.11
4436-047	S	5410	82.17	8.21	2.18	7.14	0.30
4436-048	S	5411	72.18	7.65	5.50	14.35	0.31
4436-049	S	5412	77.18	8.74	5.97	7.70	0.41
4436-050	S	5413	55.92	6.00	17.69	19.91	0.47
4436-051	S	5414	82.10	8.22	3.30	6.18	0.21
4436-052	S	5415	80.58	6.81	2.56	9.83	0.21
4436-053	S	5416	78.30	6.41	4.14	11.01	0.13

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

TABLE 4
COMPOSITION (NORMALISED %) OF C₁₅₊ MATERIAL

JOB 4436 GEOCHEM SAMPLE NUMBER	L I T H O	DEPTH/ IDENTITY	HYDROCARBONS		NON HYDROCARBONS		
			Saturates	Aromatics	Preciptd. Asphaltenes	Eluted NSO's	Non-Eluted NSO's
4436-054	S	5417	60.94	6.52	18.22	14.00	0.32
4436-055	S	5418	38.01	4.80	30.37	26.47	0.36
4436-056	S	5419	24.71	8.82	32.51	33.53	0.43
4436-057	S	5420	35.15	5.45	34.16	25.08	0.17
4436-058	S	5421	26.64	9.19	41.00	23.00	0.16
4436-059	S	5422	35.80	3.50	39.92	20.58	0.21
4436-060	S	5423	49.83	5.37	23.89	20.46	0.46
4436-061	S	5424	25.87	4.31	23.88	45.44	0.50
4436-062	S	5425	40.00	3.76	25.74	29.70	0.79
4436-063	S	5426	41.61	3.13	28.86	25.28	1.12
4436-064	S	5427	43.87	3.44	23.87	28.17	0.65
4436-065	S	5428	44.40	4.09	23.71	27.59	0.22
4436-066	S	5429	56.24	4.83	22.46	16.14	0.33
4436-067	S	5430	81.84	6.13	4.15	7.57	0.30
4436-068	S	5431	50.00	4.61	22.70	22.18	0.51
4436-069	S	5432	52.28	5.23	18.10	23.99	0.40
4436-070	S	5433	29.96	6.17	32.82	30.40	0.66
4436-071	S	5434	41.11	12.84	26.43	19.15	0.46
4436-072	S	5435	45.74	4.62	15.44	33.62	0.58
4436-073	S	5436	26.77	6.66	34.70	31.30	0.57
4436-074	S	5437	55.16	3.89	31.87	8.65	0.43
4436-075	S	5438	38.23	2.85	37.66	20.26	1.00

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

TABLE 5
SIGNIFICANT C₁₅₊ RATIOS

JOB 4436	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: CORES

4436-001	S 5364									61.01	7.20
4436-002	S 5365									82.29	11.11
4436-003	S 5366									83.18	8.22
4436-004	S 5367									87.36	7.55
4436-005	S 5368									85.87	8.83
4436-006	S 5369									85.30	7.38
4436-007	S 5370									85.19	12.31
4436-008	S 5371									88.45	11.70
4436-009	S 5372									87.22	11.32
4436-010	S 5373									86.41	11.92
4436-011	S 5374									82.67	10.48
4436-012	S 5375									89.04	10.54
4436-013	S 5376									77.09	8.02
4436-014	S 5377									85.46	7.45
4436-015	S 5378									74.65	7.88
4436-016	S 5379									81.18	11.07
4436-017	S 5380									84.65	9.81
4436-018	S 5381									76.43	6.51
4436-019	S 5382									82.58	10.34
4436-020	S 5383									78.82	10.04
4436-021	S 5384									82.17	8.48
4436-022	S 5385									69.58	7.47
4436-023	S 5386									63.68	3.45
4436-024	S 5387									71.77	5.60
4436-025	S 5388									81.20	6.94
4436-026	S 5389									77.57	5.70
4436-027	S 5390									82.06	5.54
4436-028	S 5391									76.78	6.71
4436-029	S 5392									74.84	6.80
4436-030	S 5393									82.84	7.75
4436-031	S 5394									84.62	8.13
4436-032	S 5395									87.44	6.36

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

TABLE 5
SIGNIFICANT C₁₅₊ RATIOS

JOB 4436	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		
4436-033	S	5396								81.07	6.00
4436-034	S	5397								86.10	7.68
4436-035	S	5398								85.89	7.74
4436-036	S	5399								89.34	6.88
4436-037	S	5400								91.94	6.99
4436-038	S	5401								88.87	7.40
4436-039	S	5402								90.57	7.43
4436-040	S	5403								65.82	3.16
4436-041	S	5404								88.93	7.60
4436-042	S	5405								73.66	4.34
4436-043	S	5406								88.80	9.75
4436-044	S	5407								87.59	9.51
4436-045	S	5408								87.53	9.57
4436-046	S	5409								88.76	9.78
4436-047	S	5410								90.38	10.01
4436-048	S	5411								79.82	9.44
4436-049	S	5412								85.92	8.83
4436-050	S	5413								61.93	9.32
4436-051	S	5414								90.32	9.99
4436-052	S	5415								87.39	11.82
4436-053	S	5416								84.71	12.22
4436-054	S	5417								67.46	9.34
4436-055	S	5418								42.81	7.93
4436-056	S	5419								33.53	2.80
4436-057	S	5420								40.59	6.45
4436-058	S	5421								35.83	2.90
4436-059	S	5422								39.30	10.24
4436-060	S	5423								55.20	9.28
4436-061	S	5424								30.18	6.00
4436-062	S	5425								43.76	10.63
4436-063	S	5426								44.74	13.29
4436-064	S	5427								47.31	12.75
4436-065	S	5428								48.49	10.84
4436-066	S	5429								61.06	11.66

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

TABLE 5
SIGNIFICANT C₁₅₊ RATIOS

JOB 4436	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		
4436-067		S 5430								87.97	13.35
4436-068		S 5431								54.61	10.85
4436-069		S 5432								57.51	10.00
4436-070		S 5433								36.12	4.86
4436-071		S 5434								53.96	3.20
4436-072		S 5435								50.36	9.91
4436-073		S 5436								33.43	4.02
4436-074		S 5437								59.05	14.17
4436-075		S 5438								41.08	13.40

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

TABLE 6
C₁₅₊ CHROMATOGRAPHY WEIGHTS (grams)

JOB 4436	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: CORES

4436-001	S	5364	16.9200	0.01303	0.00446	0.00857	0.00698	0.00097	0.00059	0.00003
4436-002	S	5365	16.4300	0.00971	0.00105	0.00866	0.00733	0.00066	0.00064	0.00003
4436-003	S	5366	16.0400	0.01385	0.00135	0.01250	0.01027	0.00125	0.00095	0.00003
4436-004	S	5367	16.6800	0.01606	0.00121	0.01485	0.01239	0.00164	0.00077	0.00005
4436-005	S	5368	16.9000	0.01649	0.00140	0.01509	0.01272	0.00144	0.00087	0.00006
4436-006	S	5369	16.1600	0.01395	0.00132	0.01263	0.01048	0.00142	0.00068	0.00005
4436-007	S	5370	16.2900	0.01344	0.00123	0.01221	0.01059	0.00086	0.00068	0.00008
4436-008	S	5371	17.5000	0.02555	0.00147	0.02408	0.02082	0.00178	0.00134	0.00014
4436-009	S	5372	16.4500	0.02176	0.00143	0.02033	0.01744	0.00154	0.00126	0.00009
4436-010	S	5373	16.3600	0.02288	0.00162	0.02126	0.01824	0.00153	0.00140	0.00009
4436-011	S	5374	16.3100	0.01500	0.00178	0.01322	0.01132	0.00108	0.00075	0.00007
4436-012	S	5375	18.6400	0.02099	0.00062	0.02037	0.01707	0.00162	0.00160	0.00008
4436-013	S	5376	17.0800	0.01942	0.00261	0.01682	0.01331	0.00166	0.00179	0.00006
4436-014	S	5377	20.5400	0.04560	0.00323	0.04237	0.03436	0.00461	0.00322	0.00018
4436-015	S	5378	15.4700	0.01558	0.00149	0.01409	0.01032	0.00131	0.00239	0.00007
4436-016	S	5379	19.0600	0.03018	0.00264	0.02754	0.02247	0.00203	0.00300	0.00004
4436-017	S	5380	18.4400	0.02580	0.00171	0.02409	0.01982	0.00202	0.00219	0.00006
4436-018	S	5381	17.9500	0.02329	0.00296	0.02033	0.01543	0.00237	0.00250	0.00003
4436-019	S	5382	17.8800	0.02032	0.00152	0.01880	0.01530	0.00148	0.00195	0.00007
4436-020	S	5383	20.1500	0.03697	0.00429	0.03268	0.02650	0.00264	0.00346	0.00008
4436-021	S	5384	19.7000	0.03774	0.00327	0.03447	0.02774	0.00327	0.00341	0.00005
4436-022	S	5385	19.3300	0.03189	0.00637	0.02552	0.01957	0.00262	0.00326	0.00007
4436-023	S	5386	19.8200	0.02434	0.00561	0.01873	0.01202	0.00348	0.00318	0.00005
4436-024	S	5387	20.2400	0.01573	0.00159	0.01414	0.00958	0.00171	0.00281	0.00004
4436-025	S	5388	19.2400	0.02005	0.00166	0.01839	0.01423	0.00205	0.00202	0.00009
4436-026	S	5389	19.9100	0.02202	0.00297	0.01905	0.01453	0.00255	0.00190	0.00007
4436-027	S	5390	20.2000	0.03139	0.00278	0.02861	0.02182	0.00394	0.00271	0.00014
4436-028	S	5391	19.7500	0.01899	0.00239	0.01655	0.01269	0.00189	0.00192	0.00005
4436-029	S	5392	19.8100	0.02083	0.00355	0.01728	0.01359	0.00200	0.00162	0.00007
4436-030	S	5393	20.1700	0.03042	0.00154	0.02888	0.02232	0.00288	0.00352	0.00016
4436-031	S	5394	19.2100	0.03278	0.00205	0.03073	0.02470	0.00304	0.00285	0.00014
4436-032	S	5395	19.1600	0.05862	0.00247	0.05615	0.04430	0.00696	0.00466	0.00023

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

TABLE 6
C₁₅₊ CHROMATOGRAPHY WEIGHTS (grms)

JOB 4436	L I T H O	DEPTH/ IDENTITY	ROCK EXTRACTED	TOTAL EXTRACT	PRECIPTD. ASPHALTENES	NC5	SATURATES	AROMATICS	ELUTED NSO's	NON-ELUTED NSO's
4436-033	S	5396	19.9500	0.03317	0.00243	0.03074	0.02305	0.00384	0.00375	0.00010
4436-034	S	5397	20.0600	0.04999	0.00314	0.04685	0.03808	0.00496	0.00370	0.00011
4436-035	S	5398	19.3600	0.04507	0.00279	0.04228	0.03428	0.00443	0.00338	0.00019
4436-036	S	5399	19.0100	0.07827	0.00307	0.07520	0.06106	0.00887	0.00496	0.00031
4436-037	S	5400	17.4700	0.11729	0.00194	0.11535	0.09435	0.01349	0.00703	0.00048
4436-038	S	5401	18.9200	0.06587	0.00243	0.06344	0.05157	0.00697	0.00469	0.00021
4436-039	S	5402	16.3600	0.06235	0.00143	0.06092	0.04977	0.00670	0.00432	0.00013
4436-040	S	5403	18.4800	0.01138	0.00238	0.00900	0.00569	0.00180	0.00146	0.00005
4436-041	S	5404	19.1900	0.07813	0.00260	0.07553	0.06140	0.00808	0.00589	0.00016
4436-042	S	5405	18.3500	0.01116	0.00158	0.00958	0.00668	0.00154	0.00132	0.00004
4436-043	S	5406	19.3200	0.08377	0.00228	0.08149	0.06747	0.00692	0.00692	0.00018
4436-044	S	5407	19.2600	0.09493	0.00294	0.09199	0.07524	0.00791	0.00864	0.00020
4436-045	S	5408	18.0200	0.06678	0.00239	0.06439	0.05292	0.00553	0.00579	0.00015
4436-046	S	5409	16.8700	0.09523	0.00294	0.09229	0.07669	0.00784	0.00766	0.00010
4436-047	S	5410	17.6200	0.11168	0.00243	0.10925	0.09177	0.00917	0.00797	0.00034
4436-048	S	5411	18.0700	0.04565	0.00251	0.04313	0.03295	0.00349	0.00655	0.00014
4436-049	S	5412	16.2100	0.04338	0.00259	0.04079	0.03348	0.00379	0.00334	0.00018
4436-050	S	5413	17.6200	0.00633	0.00112	0.00521	0.00354	0.00038	0.00126	0.00003
4436-051	S	5414	19.0700	0.07765	0.00256	0.07509	0.06375	0.00638	0.00480	0.00016
4436-052	S	5415	18.9000	0.10463	0.00268	0.10195	0.08431	0.00713	0.01029	0.00022
4436-053	S	5416	17.1200	0.06757	0.00280	0.06477	0.05291	0.00433	0.00744	0.00009
4436-054	S	5417	16.6400	0.01257	0.00229	0.01028	0.00766	0.00082	0.00176	0.00004
4436-055	S	5418	18.3200	0.00563	0.00171	0.00392	0.00214	0.00027	0.00149	0.00002
4436-056	S	5419	16.9900	0.00692	0.00225	0.00467	0.00171	0.00061	0.00232	0.00003
4436-057	S	5420	17.1100	0.00606	0.00207	0.00399	0.00213	0.00033	0.00152	0.00001
4436-058	S	5421	17.9600	0.01839	0.00754	0.01085	0.00490	0.00169	0.00423	0.00003
4436-059	S	5422	17.8400	0.00486	0.00194	0.00292	0.00174	0.00017	0.00100	0.00001
4436-060	S	5423	20.1300	0.00875	0.00209	0.00666	0.00436	0.00047	0.00179	0.00004
4436-061	S	5424	19.5900	0.00603	0.00144	0.00459	0.00156	0.00026	0.00274	0.00003
4436-062	S	5425	18.6000	0.00505	0.00130	0.00375	0.00202	0.00019	0.00150	0.00004
4436-063	S	5426	18.6700	0.00447	0.00129	0.00318	0.00186	0.00014	0.00113	0.00005
4436-064	S	5427	17.9500	0.00465	0.00111	0.00354	0.00204	0.00016	0.00131	0.00003
4436-065	S	5428	18.6800	0.00464	0.00110	0.00354	0.00206	0.00019	0.00128	0.00001
4436-066	S	5429	19.6200	0.00601	0.00135	0.00466	0.00338	0.00029	0.00097	0.00002

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

TABLE 6
C₁₅₊ CHROMATOGRAPHY WEIGHTS (grams)

JOB 4436	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										
4436-067		S 5430	19.1500	0.07991	0.00332	0.07659	0.06540	0.00490	0.00605	0.00024
4436-068		S 5431	18.3300	0.00586	0.00133	0.00453	0.00293	0.00027	0.00130	0.00003
4436-069		S 5432	17.4000	0.00746	0.00135	0.00611	0.00390	0.00039	0.00179	0.00003
4436-070		S 5433	19.4200	0.00454	0.00149	0.00305	0.00136	0.00028	0.00138	0.00003
4436-071		S 5434	18.9100	0.01744	0.00461	0.01283	0.00717	0.00224	0.00334	0.00008
4436-072		S 5435	18.1600	0.00693	0.00107	0.00586	0.00317	0.00032	0.00233	0.00004
4436-073		S 5436	17.5100	0.00706	0.00245	0.00461	0.00189	0.00047	0.00221	0.00004
4436-074		S 5437	18.9100	0.01387	0.00442	0.00945	0.00765	0.00054	0.00120	0.00006
4436-075		S 5438	18.6000	0.00701	0.00264	0.00437	0.00268	0.00020	0.00142	0.00007

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