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Prepared for
NORSK HYDRO

GEOCHEMICAL EVALUATION
OF NORSK HYDRO'S WELL 7321/8-1

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INTRODUCTION

This report presents a geochemical evaluation of the section between 900 metres and 3396 metres in Norsk Hydro's 7321/8-1 Barents Sea Key Area III well. The well was drilled to a total depth of 3482 metres and penetrated Upper Permian sediments.

A detailed analytical programme was provided by the client. This was designed to:-

- a) investigate the hydrocarbon potential of the section in terms of richness, maturity and potential for oil and gas
- b) detect and characterise shows of migrated hydrocarbons especially within the interval 1437-1573 metres. A suite of core and sidewall core samples was included in the study for this purpose.

Detailed discussions of Organic Facies, Source Richness, Thermal Maturity, Show Detection, Show Characterisation and Oil Correlation are presented in the appropriate text chapters and have been integrated to form the Conclusions.

Authorisation for this project was provided by S.G. Holehouse, Norsk Hydro a.s, Harstad under the conditions of contract KO1485/OG-U & FOU.

ANALYTICAL

Ninety eight (98) core samples covering the interval 1444.0 -1544.0 metres and forty (40) sidewall cores from the section between 1545.0 metres and 2276.8 metres were received in August 1987. In addition, a core from 1481.0 metres, twenty seven (27) sidewall cores from 1773.4 - 3396.0 metres and fifteen (15) ditch cuttings samples from the intervals 900-980 metres, 1380-1430 metres and



2230 metres were received for geochemical analysis in three batches during October 1987. Finally, a set of kerogen slides prepared by Robertson Research International Limited was received in early December. These samples were assigned the Geochem job number 1602.

All depths quoted in this study are relative to K.B.. Geochem were provided with the following items for this study:-

- a) analytical data from the Exploration Logging Services geochemical report for the 7321/8-1 well,
- b) a lithostratigraphic summary,
- c) a set of wireline logs (scale 1:500).

All analyses were performed according to Norsk Hydro standards. The following analyses were performed in this study:

ANALYSIS	NUMBER OF ANALYSES		
	CUTTINGS	SWC	CORE
Sample preparation	15	34	1
Total organic carbon	15	34	1
Pyrolysis	15	34	1
Kerogen type and spore colouration	9	27	1
Programmed pyrolysis-GC	11	14	2
C ₁₅₊ extractions etc. (source)	15	34	1
C ₁₅₊ extractions etc. (reservoir)	-	33	98
GC-MS biomarker analysis (source)	4	6	-
GC-MS biomarker analysis (reservoir)	-	5	5
Carbon isotopes - extract, fractions (source)	20	30	-
Carbon isotopes - extract, fractions (reservoir)	-	25	25

The data are presented in tables 1 through 12 and graphically in figures 1 through 13. A brief description of the analytical techniques employed in this study is included in the back of this report.



TABLE 1
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

GEOCHEM SAMPLE NUMBER	DEPTH	GROSS LITHOLOGIC DESCRIPTION	G S A Colour Code	TOTAL ORGANIC CARBON (Wt. % of Rock)
<u>Well 7321/8-1</u>				
1602-139	900m	A 70% Silty mudstone, grading to siltstone, sub-platy to platy, mod. soft, non-calc., greyish yellowish brown to dark yellowish brown B 30% Shaly mudstone, subfissile to platy, mod. hard, non-calc., medium grey to medium dark grey	10YR3/2- 10YR4/2 N5-4	1.08
1602-140	910m	A 90% Siltstone, grading to silty mudstone, sub-platy to platy, mod. soft, non-calc., greyish yellowish brown to yellowish brown B 10% Shaly mudstone, subfissile to platy, mod. soft, non-calc., dark grey to medium dark grey	10YR3/2- 10YR5/2 N3-4	1.17
1602-141	920m	A 98% Siltstone, grading to silty mudstone in part, platy to sub-platy, mod. hard, non-calc., greyish yellowish brown to yellowish brown Minor shaly mudstone	10YR3/2- 10YR5/2	1.23
1602-142	950m	A 98% Mudstone, sl. silty in part, subfissile to platy, mod. soft, non-calc., greyish yellowish brown to dark yellowish brown	10YR3/2- 10YR4/2	1.46
1602-143	980m	A 98% Silty mudstone, occ. grading to siltstone, platy to sub-platy, mod. hard, non-calc., greyish yellowish brown to yellowish brown Minor shaly mudstone	10YR3/2- 10YR5/2	1.60
1602-144 SWC	1173.4m	A 85% Claystone, platy to sub-platy, soft, non-calc., dark olive grey B 15% Limestone, v. sl. aren., crystalline, mod. soft, very light grey to very pale orange	5Y3/1 N8-10YR8/2	0.67
1602-145 SWC	1322.0m	A 98% Drilling mud only - no sample		1.19
1602-146	1365m	A 98% Shaly mudstone, subfissile to platy, mod. hard, non-calc., dark grey to medium dark grey	N3-4	2.71
1602-147 SWC	1377.0m	A 98% Dom. drilling mud with occ. traces of shaly mudstone, blocky, mod. soft, non-calc., (olive grey)	(5Y4/1)	0.66

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



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1602-148	1380m	A 60% Shale, subfissile to platy, mod. hard, non-calc., greyish black to dark grey	N2-3	1.49
		B 30% Shaly mudstone, platy to subfissile, mod. hard, non-calc., medium grey	N5	
		C 10% Shale, subfissile, mod. hard, non-calc., greyish red	10R4/2	
1602-149	1390m	A 85% Shale, as 1602-148A	N2-3	1.95, 1.90
		B 10% Shaly mudstone, as 1602-148B	N5	
		C 5% Shale, as 1602-148C	10R4/2	
1602-150	1400m	A 95% Shale, as 1602-148A	N2-3	2.27
		B 5% Shale, as 1602-148B	N5	
1602-151	1410m	A 98% Shale, subfissile to platy, mod. hard, non-calc., v. sl. silty, v. sl. micaceous, greyish black to dark grey Minor grey shale, red mudstone	N2-3	2.77
1602-152	1415m	A 98% Shale, as 1602-151A	N2-3	3.46
1602-153	1420m	A 98% Shale, as 1602-151A	N2-3	3.83
1602-154	1425m	A 98% Shale, as 1602-151A	N2-3	3.86
1602-155	1430m	A 98% Shale, as 1602-151A	N2-3	3.10
1602-001 CORE	1444.00m	A 98% Sandstone, very fine to fine grained, subangular to subrounded, mod sorted, with poorly developed argillaceous laminae, pale yellowish brown	10YR6/2	
1602-002 CORE	1445.00m	A 98% Sandstone, very fine to fine grained, subangular to subrounded, mod. sorted, with frequent poorly developed argillaceous laminae, medium yellowish brown	10YR5/2	
1602-003 CORE	1446.00m	A 98% Sandstone, as 1602-002A	10YR5/2	
1602-004 CORE	1447.00m	A 98% Sandstone, very fine to fine grained, subangular to subrounded, mod. sorted, with frequent poorly developed argillaceous laminae, pale yellowish brown	10YR6/2	
1602-005 CORE	1448.00m	A 98% Sandstone, very fine to fine grained, subangular to subrounded, mod sorted, generally argillaceous, medium yellowish brown	10YR5/2	

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1602-006 CORE	1449.00m	A 98% Sandstone, fine to medium grained, subangular, mod sorted, occasional argillaceous laminae, pale yellowish brown	10YR6/2	
1602-007 CORE	1450.00m	A 98% Sandstone, very fine to fine grained, subangular to subrounded, mod sorted, with poorly developed argillaceous laminae, pale yellowish brown	10YR6/2	
1602-008 CORE	1451.00m	A 98% Sandstone, as 1602-007A	10YR6/2	
1602-009 CORE	1452.00m	A 98% Sandstone, fine to medium grained, subangular to subrounded, mod sorted, with frequent argillaceous laminae, occasional clay lenses, pale yellowish brown - yellowish brown	10YR6/2- 10YR5/2	
1602-010 CORE	1453.00m	A 98% Sandstone, very fine to fine grained, subangular to subrounded, mod sorted, calc. cement, light grey	N7	
1602-011 CORE	1454.00m	A 98% Sandstone, fine to medium grained, subangular to subrounded; mod sorted, with poorly developed argillaceous laminae, yellowish brown	10YR5/2	
1602-012 CORE	1455.00m	A 98% Sandstone, fine to medium grained, subangular to subrounded, mod sorted, calc. cement, very light grey	N8	
1602-013 CORE	1456.00m	A 98% Sandstone, fine grained, subangular to subrounded, mod sorted, fairly argillaceous, yellowish brown	10YR5/2	
1602-014 CORE	1457.00m	A 98% Sandstone, very fine to fine grained, subangular to subrounded, mod sorted, with distinct argillaceous laminae, yellowish brown - greyish yellowish brown	10YR5/2- 10YR3/2	
1602-015 CORE	1458.00m	A 98% Sandstone, very fine to fine grained, subangular to subrounded, mod sorted, with distinct argillaceous laminae, light grey + greyish yellowish brown	N7 + 10YR3/2	
1602-016 CORE	1459.00m	A 70% Sandstone, fine to medium grained, subangular to subrounded, mod sorted, pale orange brown B 30% Carbonaceous mudstone, subfissile, mod hard, non calcareous, occurring as distinct beds in the sandstone, greyish yellowish brown	10YR7/2 10YR3/2	



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GEOCHEM SAMPLE NUMBER	DEPTH	GROSS LITHOLOGIC DESCRIPTION	G S A Colour Code	TOTAL ORGANIC CARBON (Wt. % of Rock)
1602-017 CORE	1460.00m	A 98% Sandstone, fine grained, subangular to subrounded, mod sorted, very argillaceous in ill defined beds, pale yellowish brown + greyish yellowish brown	10YR6/2 + 10YR3/2	
1602-018 CORE	1461.00m	A 98% Sandstone, as 1602-017A	10YR6/2 + 10YR3/2	
1602-019 CORE	1462.00m	A 98% Sandstone, fine to medium grained, subangular to subrounded, mod sorted, with poorly developed argillaceous laminae, pale orange	10YR7/2	
1602-020 CORE	1463.00m	A 98% Sandstone, fine to coarse grained, subangular to subrounded, mod sorted, occasional argillaceous flecks, light grey	N7	
1602-021 CORE	1464.00m	A 98% Sandstone, fine to medium grained, subangular to subrounded, poorly sorted, extremely argillaceous, with occasional distinct argillaceous/ carbonaceous bands, greyish yellowish brown - yellowish brown	10YR3/2 - 10YR5/2	
1602-022 CORE	1466.00m	A 98% Sandstone, fine to medium grained, subangular to subrounded, mod sorted, calc. cement, light grey	N7	
1602-023 CORE	1467.00m	A 98% Sandstone, fine to occ. medium grained, subangular to subrounded, mod sorted, calc. cement, occasional argillaceous lenses, light grey	N7	
1602-024 CORE	1468.00m	A 98% Mudstone, subfissile, mod hard, non calc., with thin laterally incontinous sandstone stringers, dark grey + greyish orange pink	N3 + 5YR7/2	
1602-025 CORE	1469.00m	A 98% Mudstone, subfissile, mod hard, non calc., sl. carbonaceous, with thin laterally incontinous sandstone stringers, dark grey + pale orange	N3 + 10YR7/2	
1602-026 CORE	1470.00m	A 98% Mudstone, platy, mod hard, non calc., with indistinct sandstone stringers, dark grey	N3	
1602-027 CORE	1471.00m	A 98% Mudstone, platy, mod hard, non calc., sl. micaceous with thin sandstone laminae, dark grey + pale orange	N3 + 10YR7/2	

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Lost Circulation Material, moderately, occasionally, slightly, very

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1602-028 CORE	1472.00m	A 98% Sandstone, fine grained, subangular to subrounded, mod sorted, with significant (35%) thin mudstone beds, N3 pale orange + dark grey	10YR7/2	
1602-029 CORE	1473.00m	A 98% Sandstone, fine to medium grained, subangular to subrounded, mod sorted, pale orange	10YR7/2	
1602-030 CORE	1474.00m	A 98% Sandstone, medium to coarse grained, subangular to subrounded, mod sorted, pale orange	10YR7/2	
1602-031 CORE	1475.00m	A 98% Sandstone, fine to medium grained, subangular to subrounded, mod sorted, light grey	N7	
1602-032 CORE	1476.00m	A 98% Sandstone, fine to medium grained, subangular to subrounded, mod sorted, pale orange	10YR7/2	
1602-033 CORE	1477.00m	A 98% Sandstone, fine to medium grained, subangular to subrounded, mod sorted, light grey	N7	
1602-034 CORE	1478.00m	A 98% Sandstone, fine to medium grained, subangular to subrounded, mod sorted, pale orange	10YR7/2	
1602-035 CORE	1479.00m	A 98% Silty mudstone, platy, mod hard, non calc., with thin micaceous/ argillaceous laminae, pale orange + medium dark grey	10YR7/2 + N4	
1602-036 CORE	1480.00m	A 98% Sandstone, fine grained, subangular to subrounded, mod to fairly well sorted, with distinct thin argillaceous/carbonaceous laminae, pale orange + dark grey	10YR7/2 + N3	
1602-037 CORE	1481.00m	A 65% Mudstone, subfissile, mod hard, non calc., carbonaceous, greyish black B 35% Sandstone, fine grained, subangular to subrounded, mod sorted, generally occurring as stringers in the mudstone, pale orange	N2 10YR7/2	3.25
1602-181 CORE	1481.00m	A 65% Sandstone, v. fine to fine grained, subangular to subrounded, fairly well sorted, sl. argillaceous, light grey B 35% Shaly mudstone, subfissile, mod. hard, non-calc. as thin interbeds in the above, dark grey	N7 N3	2.11



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GEOCHEM SAMPLE NUMBER	DEPTH	GROSS LITHOLOGIC DESCRIPTION	GSA Colour Code	TOTAL ORGANIC CARBON (Wt. % of Rock)
1602-038 CORE	1482.00m	A 65% Sandstone, very fine to fine grained, subangular to subrounded, fairly well sorted, pale orange B 35% Mudstone, platy, mod hard, non calc., dark grey		
1602-039 CORE	1483.00m	A 98% Sandstone, very fine to fine grained, subangular to subrounded, mod to fairly well sorted, with ill-defined argillaceous laminae, light grey		
1602-040 CORE	1484.00m	A 98% Silty mudstone, massive, mod hard, non calc., sl. micaceous, yellowish olive grey	5Y6/2	
1602-041 CORE	1485.00m	A 98% Mudstone, sl. silty, platy to subfissile, mod hard, non calc., medium dark grey	N4	
1602-042 CORE	1486.00m	A 75% Mudstone, platy, mod hard, non calc., greyish black B 25% Sandstone, fine grained, subangular to subrounded, mod sorted, occurring as stringers in the mudstone, pale orange		10YR7/2
1602-043 CORE	1487.00m	A 65% Sandstone, fine grained, subangular to subrounded, mod sorted, pale orange B 35% Mudstone, subfissile, mod hard, non calc., occurring as thin beds within the sandstone, dark grey		10YR7/2 N3
1602-044 CORE	1488.00m	A 98% Sandstone, fine to medium grained, subangular to subrounded, mod sorted, with occasional argillaceous lenses, pale orange		10YR7/2
1602-045 CORE	1490.00m	A 98% Sandstone, fine grained, subangular to subrounded, mod sorted, light grey	N7	
1602-046 CORE	1491.00m	A 98% Sandstone, very fine to fine grained, subangular to subrounded, mod sorted, occasional poorly developed argillaceous laminae, pale orange		10YR7/2
1602-047 CORE	1492.00m	A 98% Sandstone, fine grained, subangular to subrounded, medium to fairly well sorted, light grey	N7	
1602-048 CORE	1494.00m	A 98% Sandstone, fine grained, subangular to subrounded, mod sorted, occasional indistinct argillaceous/carbonaceous laminae, pale orange		10YR7/2

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1602-049 CORE	1495.00m	A 98% Sandstone, very fine grained, subangular to subrounded, mod sorted, occasional mudstone/carbonaceous laterally incontinuous laminae, pale orange	10YR7/2	
1602-050 CORE	1496.00m	A 98% Sandstone, fine to medium grained, subangular to subrounded, mod sorted, pale orange	10YR7/2	
1602-051 CORE	1497.00m	A 98% Sandstone, fine to medium grained, subangular to subrounded, mod sorted, light grey	N7	
1602-052 CORE	1498.00m	A 98% Sandstone, fine to medium grained, subangular to subrounded, mod sorted, pale orange	10YR7/2	
1602-053 CORE	1499.00m	A 98% Sandstone, fine to coarse grained, subangular to subrounded, mod sorted, sl. argillaceous, very pale orange	10YR8/2	
1602-054 CORE	1500.00m	A 98% Sandstone, fine to medium grained, subangular to subrounded, mod sorted, with thin laterally incontinuous carbonaceous laminae, slow milky cut, pale orange + dark grey	10YR7/2 + N3	
1602-055 CORE	1501.00m	A 98% Sandstone, fine to medium grained, subangular to subrounded, mod sorted, with occasional laterally incontinuous carbonaceous laminae, yellowish brown	10YR5/2	
1602-056 CORE	1502.00m	A 98% sandstone, fine to medium grained, subangular to subrounded, mod sorted, with laterally inconsistent argillaceous/carbonaceous laminae, pale yellowish brown	10YR6/2	
1602-057 CORE	1503.00m	A 98% Sandstone, medium to coarse grained, subangular to subrounded, mod sorted, argillaceous matrix, light grey	N7	
1602-058 CORE	1504.00m	A 98% Sandstone, fine to medium grained, subangular to subrounded, mod sorted, sl. argillaceous, pale orange	10YR7/2	
1602-059 CORE	1505.00m	A 98% Sandstone, fine to coarse grained, subangular to subrounded, mod sorted, pale orange	10YR7/2	
1602-060 CORE	1506.00m	A 98% Sandstone, fine to medium grained, subangular to subrounded, mod sorted, sl. argillaceous, light grey	N7	



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1602-061 CORE	1507.00m	A 98% Sandstone, fine to medium grained, subangular to subrounded, mod sorted, pale orange	10YR7/2	
1602-062 CORE	1508.00m	A 98% Sandstone, as 1594-060A	N7	
1602-063 CORE	1509.00m	A 98% Sandstone, fine grained, subangular to subrounded, mod to fairly well sorted, light grey	N7	
1602-064 CORE	1510.00m	A 98% Sandstone, fine to medium grained, subangular to subrounded, mod sorted, sl. argillaceous, light grey	N7	
1602-065 CORE	1511.00m	A 98% Sandstone, medium to coarse grained, subangular to subrounded, mod to poorly sorted, pale orange	10YR7/2	
1602-066 CORE	1512.00m	A 98% Sandstone, fine to medium grained, subangular to subrounded, mod sorted, pale orange	10YR7/2	
1602-067 CORE	1513.00m	A 98% Sandstone, fine to medium grained, subangular to subrounded, mod sorted, pale orange	10YR7/2	
1602-068 CORE	1514.00m	A 98% Sandstone, medium to coarse grained, subangular to subrounded, mod sorted, pale orange	10YR7/2	
1602-069 CORE	1515.00m	A 98% Sandstone, medium to coarse grained, subangular to subrounded, mod sorted, pale orange	10YR7/2	
1602-070 CORE	1516.00m	A 98% Sandstone, as 1602-069A	10YR7/2	
1602-071 CORE	1517.00m	A 98% Sandstone, fine to medium grained, subangular to subrounded, mod sorted, light grey	N7	
1602-072 CORE	1518.00m	A 98% Sandstone, fine to medium grained, subangular to subrounded, mod sorted, light grey	N7	
1602-073 CORE	1519.00m	A 98% Sandstone, fine to medium grained, subangular to subrounded, mod sorted, pale orange	10YR7/2	
1602-074 CORE	1520.00m	A 98% Sandstone, fine to medium grained, subangular to subrounded, mod sorted, pale orange	10YR7/2	
1602-075 CORE	1521.00m	A 98% Sandstone, fine to medium grained, subangular to subrounded, mod sorted, with argillaceous lenses, pale orange	10YR7/2	

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1602-076 CORE	1522.00m	A 98% Sandstone, medium to coarse grained, subangular to subrounded, mod sorted, pale orange	10YR7/2	
1602-077 CORE	1523.00m	A 98% Sandstone, fine to medium grained, subangular to subrounded, mod sorted, light grey	N7	
1602-078 CORE	1524.00m	A 98% Sandstone, fine to medium grained, subangular to subrounded, mod sorted, light grey	N7	
1602-079 CORE	1525.00m	A 98% Sandstone, fine to medium grained, subangular to subrounded, mod sorted, pale orange	10YR7/2	
1602-080 CORE	1526.00m	A 98% Sandstone, fine to medium grained, subangular to subrounded, mod sorted, pale orange	10YR7/2	
1602-081 CORE	1527.00m	A 98% Sandstone, fine to medium grained, subangular to subrounded, mod sorted, with indistinct argillaceous laminae, pale orange + dark olive grey	10YR7/2 + 5Y3/1	
1602-082 CORE	1528.00m	A 98% Sandstone, fine to medium grained, subangular to subrounded, mod sorted, with frequent laterally incontinuous argillaceous/carbonaceous lenses, pale yellowish brown + dark grey	10YR6/2 + N3	
1602-083 CORE	1529.00m	A 98% Sandstone, fine to coarse grained, subangular to subrounded, mod sorted, with occasional argillaceous lenses, pale yellowish	10YR6/2	
1602-084 CORE	1530.00m	A 98% Sandstone, fine to medium grained, subangular to subrounded, mod sorted, pale orange	10YR7/2	
1602-085 CORE	1531.00m	A 98% Sandstone, fine to coarse grained, subangular to subrounded, mod sorted, sl. calcareous, pale orange	10YR7/2	
1602-086 CORE	1532.00m	A 98% Sandstone, fine to medium grained, subangular to subrounded, mod sorted, pale orange	10YR7/2	
1602-087 CORE	1533.00m	A 98% Sandstone, fine to medium grained, subangular to subrounded, mod sorted, light grey	N7	
1602-088 CORE	1534.00m	A 98% Sandstone, fine to medium grained, subangular to subrounded, mod sorted, pale orange	10YR7/2	
1602-089 CORE	1535.00m	A 98% Sandstone, as 1602-088A	10YR7/2	



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1602-090 CORE	1536.00m	A 98% Sandstone, medium to coarse grained, subangular to subrounded, mod sorted, pale orange	10YR7/2	
1602-091 CORE	1537.00m	A 98% Sandstone, coarse grained, subangular to subrounded, mod sorted, with poorly developed argillaceous laminae, pale orange	10YR7/2	
1602-092 CORE	1538.00m	A 98% Sandstone, fine to medium grained, subangular to subrounded, mod sorted, light grey	N7	
1602-093 CORE	1539.00m	A 98% Sandstone, fine grained, subangular to subrounded, mod sorted with thin micaceous mudstone laminae and beds, light grey + dark grey	N7 + N3	
1602-094 CORE	1540.00m	A 98% Sandstone, very fine to fine grained, subangular to subrounded, mod to fairly well sorted, with occasional thin argillaceous/carbonaceous laminae, pale orange	10YR7/2	
1602-095 CORE	1541.00m	A 98% Sandstone, very fine grained, subangular to subrounded, fairly well sorted, occasional very poorly developed argillaceous laminae, yellowish brown	10YR5/2	
1602-096 CORE	1542.00m	A 98% Mudstone, subfissile, mod. hard, non calc., sl. micaceous and carbonaceous, dark grey, thinly interbedded with sandstone, fine grained, subangular to subrounded, mod sorted, pale orange	N3 + 10YR7/2	
) 1602-097 CORE	1543.00m	A 98% Sandstone, very fine to fine grained, subangular to subrounded, mod sorted, calcareous cement, pale orange	10YR7/2	
1602-098 CORE	1544.00m	A 98% Sandstone, fine grained, subangular to subrounded, mod sorted, with fairly distinct argillaceous/carbonaceous laminae, yellowish brown	10YR5/2	
1602-099 SWC	1545.00m	A 60% Claystone, blocky, soft, non-calc., olive grey B 40% Sandstone, v. fine to fine grained, subangular to subrounded, mod sorted, very light grey to white	5Y4/1 N8-9	
1602-100 SWC	1545.5m	A 98% Sandstone, v. fine to fine grained, subangular to subrounded, mod sorted with frequent argillaceous laminae, light grey to very light grey	N7-8	

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

TABLE 1
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS



GEOCHEM SAMPLE NUMBER	DEPTH	GROSS LITHOLOGIC DESCRIPTION	G S A Colour Code	TOTAL ORGANIC CARBON (Wt. % of Rock)
1602-101 SWC	1546.0m	A 98% Sandstone, v. fine to fine grained, subangular to subrounded, mod. hard, sl. calc. matrix, sl. argillaceous, very light grey	N8	
1602-102 SWC	1546.8m	A 98% Sandstone, v. fine to fine grained, subangular to subrounded, mod. to fairly well sorted, with distinct argillaceous laminae, very light grey + olive grey	N8+5Y4/1	
1602-103 SWC	1547.5m	A 98% Sandstone, v. fine to fine grained, subang. to subrounded, mod. to fairly well sorted, sl. argillaceous, very light grey	N8	
1602-104 SWC	1548.0m	A 65% Sandstone, v. fine to fine grained, subangular to subrounded, fairly well sorted, very light grey B 35% Claystone, as interbeds in the above, mod. soft, non-calc., dark olive grey	N8 5Y3/1	
1602-105 SWC	1548.5m	A 70% Claystone, blocky, soft, non-calc., olive grey B 30% Sandstone, v. fine to fine grained, subang. to subrounded, fairly well sorted, very light grey	5Y4/1 N8	
1602-106 SWC	1551.0m	A 60% Sandstone, v. fine grained, subangular to subrounded, mod. to fairly well sorted, very light grey B 40% Claystone, platy, mod. soft, non-calc., olive grey	N8 5Y4/1	
1602-107 SWC	1551.5m	A 98% Sandstone, v. fine to fine grained, subangular to subrounded, fairly well sorted, sl. argillaceous, very light grey	N8	
1602-108 SWC	1552.0m	A 98% Sandstone, v. fine grained, subangular to subrounded, fairly well sorted, light grey	N7	
1602-109 SWC	1555.0m	A 70% Sandstone, v. fine to fine grained, subangular to subrounded, mod. to fairly well sorted, very light grey B 30% Claystone, interbedded with the above mod. soft, non-calc., medium dark grey	N8 N4	
1602-110 SWC	1557.0m	A 55% Sandstone, v. fine grained, subangular to subrounded, fairly well sorted, very light grey B 45% Claystone, interbedded with the above, mod. soft, non-calc., medium dark grey	N8 N4	

TABLE 1
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS



GEOCHEM SAMPLE NUMBER	DEPTH	GROSS LITHOLOGIC DESCRIPTION	G S A Colour Code	TOTAL ORGANIC CARBON (Wt. % of Rock)
1602-111 SWC	1557.5m	A 70% Claystone, mod. soft, non-calc., olive grey	5Y4/1	
		B 30% Sandstone, v. fine grained, subangular to subrounded, fairly well sorted interbedded with the above, light grey to very light grey	N7-8	
1602-112 SWC	1558.0m	A 55% Claystone, as 1602-111A	5Y4/1	
		B 45% Sandstone, as 1602-111B	N7-8	
1602-113 SWC	1559.0m	A 60% Sandstone, v. fine grained, subangular to subrounded, fairly well sorted, very light grey	N8	
		B 40% Claystone, interbedded with the above, mod. soft, non-calc., olive grey	5Y4/1	
1602-114 SWC	1560.0m	A 98% Sandstone, v. fine to fine grained, subangular to subrounded, mod. sorted with frequent argillaceous laminae, light grey to very light grey	N7-8	
1602-115 SWC	1561.0m	A 60% Sandstone, v. fine grained, subangular to subrounded, fairly well sorted, very light grey	N8	
		B 40% Claystone, interbedded with the above, mod. soft, non-calc., olive grey	5Y4/1	
1602-116 SWC	1562.0m	A 80% Claystone, mod. soft, non-calc., olive grey	5Y4/1	
		B 20% Sandstone, v. fine grained, subangular to subrounded, fairly well sorted, thinly interbedded with the above, very light grey	N8	
1602-117 SWC	1562.5m	A 65% Sandstone, v. fine grained, subangular to subrounded, fairly well sorted, very light grey	N8	
		B 35% Claystone, interbedded with the above, mod. soft, non-calc., dark olive grey to olive grey	5Y3/1- 5Y4/1	
1602-118 SWC	1563.0m	A 65% Claystone, mod. soft, non-calc., dark olive grey	5Y3/1	
		B 35% Sandstone, v. fine grained, subangular to subrounded, fairly well sorted, interbedded with the above, very light grey	N8	
1602-119 SWC	1564.0m	A 50% Claystone, as 1602-118A	5Y3/1	
		B 50% Sandstone, as 1602-118B	N8	

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



TABLE 1
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

GEOCHEM SAMPLE NUMBER	DEPTH	GROSS LITHOLOGIC DESCRIPTION	G S A Colour Code	TOTAL ORGANIC CARBON (Wt. % of Rock)
1602-120 SWC	1564.5m	A 80% Sandstone, v. fine to fine grained, subangular to subrounded, mod. to fairly well sorted, very light grey	N8	
		B 20% Claystone, as thin interbeds in the above, mod. soft, non-calc., dark olive grey	5Y3/1	
1602-121 SWC	1565.0m	A 75% Claystone, mod. soft, non-calc., dark olive grey	5Y3/1	
		B 25% Sandstone, v. fine grained, subangular to subrounded, fairly well sorted as interbeds in the above, very light grey	N8	
1602-122 SWC	1565.5m	A 65% Sandstone, v. fine grained, subangular to subrounded, fairly well sorted, very light grey	N8	
		B 35% Claystone, as interbeds in the above, mod. soft, non-calc., dark olive grey	5Y3/1	
1602-123 SWC	1566.0m	A 70% Sandstone, as 1602-122A	N8	
		B 30% Claystone, as 1602-122B	5Y3/1	
1602-124 SWC	1566.5m	A 50% Sandstone, as 1602-122A	N8	
		B 50% Claystone, as 1602-122B	5Y3/1	
1602-125 SWC	1567.0m	A 98% Silty mudstone, poorly developed laminations, mod. soft, non-calc., olive grey	5Y4/1	
1602-126 SWC	1567.5m	A 60% Claystone, mod. soft, non-calc., olive grey	5Y4/1	
		B 40% Sandstone, fine to med. grained, subangular to subrounded, mod. sorted, very light grey to white	N8-9	
1602-127 SWC	1570.0m	A 98% Claystone, sub-platy to platy, mod. soft, non-calc., dark olive grey	5Y3/1	
1602-128 SWC	1573.0m	A 55% Sandstone, v. fine grained, subangular to subrounded, fairly well sorted, light grey	N7	
		B 45% Claystone, sub-platy, mod. soft, non-calc., dark olive grey	5Y3/1	
1602-129 SWC	1628.0m	A 98% Sandstone, fine grained, subangular to subrounded, fairly well sorted, very light grey	N8	
1602-130 SWC	1830.8m	A 98% Claystone, sub-platy to platy, mod. soft, non-calc. with thin sandstone laminae, dark olive grey	5Y3/1	0.68,0.69
1602-131 SWC	1850.9m	A 98% Claystone, sub-platy to platy, mod. soft to mod. hard, non-calc, dark olive grey	5Y3/1	0.49,0.52

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



TABLE 1
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

GEOCHEM SAMPLE NUMBER	DEPTH	GROSS LITHOLOGIC DESCRIPTION	G S A Colour Code	TOTAL ORGANIC CARBON (Wt. % of Rock)
1602-156 SWC	1915.3m	A 98% Silty claystone, sub-platy, soft, non-calc., medium light grey	5Y6/1	0.38
1602-132 SWC	1942.3m	A 98% Carb. mudstone, sub-platy to platy, mod. soft, non-calc., black to greyish black	N1-2	25.20
1602-133 SWC	2117.4m	A 98% Claystone, sub-platy to platy, mod. soft, non-calc., dark olive grey	5Y3/1	0.96,0.96
1602-134 SWC	2141.2m	A 98% Shaly mudstone, platy to subfissile, mod. hard, non-calc., olive black	5Y2/1	0.91,0.93
1602-135 SWC	2158.2m	A 98% Shaly mudstone, platy to subfissile, mod. hard, non-calc., greyish black to olive black	N2-5Y2/1	1.92,1.92
1602-136 SWC	2184.6m	A 98% Shaly mudstone, platy to subfissile, mod. hard, non-calc., greyish black	N2	1.98,2.01
1602-157 SWC	2213.7m	A 98% Siltstone, massive, mod. hard, non-calc., dusky yellowish brown	10YR2/2	0.78
1602-137 SWC	2229.1m	A 98% Shaly mudstone, platy to subfissile, mod. hard, non-calc., greyish black	N2	3.19,3.19
1602-158	2230m	A 50% Sandstone, v. fine grained, grading to siltstone in part, subangular to subrounded, fairly well sorted, rare carb. flecks, light grey to very light grey	N7-8	1.12
		B 30% Mudstone, sl. silty in part, subfissile to platy, mod. hard, non-calc., greyish black to dark grey	N2-3	
		C 20% Limestone, microcrystalline, sl. argillaceous, platy, mod. hard, medium dark grey to medium light grey	N4-6	
1602-138 SWC	2276.8m	A 98% Shaly mudstone, platy to subfissile, mod. hard, non-calc., olive black	5Y2/1	1.17,1.18
1602-159 SWC	2582.5m	A 98% Sandstone, v. fine to fine grained, subangular to subrounded, mod. sorted with frequent argillaceous lenses, sl. carb. soft, white + greyish yellowish brown	N9+10YR3/2	0.62,0.62
1602-160 SWC	2625.0m	A 98% Sandstone, v. fine to fine grained, subangular to subrounded, mod. to fairly well sorted, light grey	N7	0.14
1602-161 SWC	2634.0m	A 98% Sandstone, fine to med. grained, subangular to subrounded, fairly argillaceous in part, light grey to medium yellowish brown	N7-5Y7/1	0.31

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



TABLE 1
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

GEOCHEM SAMPLE NUMBER	DEPTH	GROSS LITHOLOGIC DESCRIPTION	GSA Colour Code	TOTAL ORGANIC CARBON (Wt. % of Rock)
1602-162 SWC	2650.0m	A 98% Mudstone, sl. silty in part, mod. soft, non-calc., greyish black to medium dark grey	N2-4	1.16
1602-163 SWC	2662.0m	A 98% Mudstone, occ. sl. silty, subfissile to platy, mod. soft, non-calc., dark grey	N3	1.34
1602-164 SWC	2668.0m	A 98% Sandstone, v. fine to fine grained, subangular to subrounded, mod. to fairly well sorted, very light grey	N8	0.15
1602-165 SWC	2681.5m	A 98% Sandstone, v. argillaceous, v. fine to fine grained, subang. to subrounded, mod. to poorly sorted with argillaceous lenses, medium grey to light grey	N5-7	0.68
1602-166 SWC	2685.0m	A 98% Mudstone, v. sl. silty, blocky, soft, non-calc., greyish black	N2	1.10
1602-167 SWC	2690.0m	A 98% Mudstone, as 1602-166A	N2	1.16,1.17
1602-168 SWC	2719.0m	A 98% Shaly mudstone, subfissile to platy, mod. hard, non-calc., dark grey	N3	1.21
1602-169 SWC	2759.0m	A 50% Silty mudstone, sub-platy to blocky, mod. soft, non-calc., olive grey B 50% Mudstone, v. sl. silty in part, platy to sub-platy, mod. soft, greyish black	5Y4/1 N2	0.71
1602-170 SWC	2778.0m	A 98% Mudstone, as 1602-169B	N2	1.48
1602-171 SWC	2813.0m	A 98% Mudstone, blocky, soft, non-calc., olive black	5Y2/1	0.85
1602-172 SWC	2830.0m	A 98% Mudstone, blocky, soft, non-calc., greyish black to dark grey	N2-3	1.34
1602-173 SWC	2910.0m	A 98% Mudstone, sl. silty in part, blocky, mod. soft, non-calc., greyish black to dark grey	N2-3	1.47
1602-174 SWC	3063.0m	A 98% Mudstone, platy to sub-platy, mod. soft, non-calc., greyish black	N2	1.14
1602-175 SWC	3100.0m	A 98% Mudstone, v. sl. silty, platy, mod. soft, non-calc., greyish black	N2	1.23
1602-176 SWC	3269.0m	A 98% Shaly mudstone, subfissile to platy, mod. soft, non-calc., greyish black	N2	1.37
1602-177 SWC	3302.0m	A 98% Mudstone, blocky, soft, non-calc., olive black	5Y2/1	1.10
1602-178 SWC	3366.0m	A 98% Mudstone, platy to sub-platy, mod. soft, non-calc., greyish black	N2	1.65,1.59

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



TABLE 1
ORGANIC CARBON RESULTS AND GROSS LITHOLOGIC DESCRIPTIONS

GEOCHEM SAMPLE NUMBER	DEPTH	GROSS LITHOLOGIC DESCRIPTION	G S A Colour Code	TOTAL ORGANIC CARBON (Wt. % of Rock)
1602-179 SWC	3373.5m	A 98% Mudstone, platy to sub-platy, mod. soft, non-calc., greyish black	N2	0.78
1602-180 SWC	3396.0m	A 98% Mudstone, platy to sub-platy, mod. soft, non-calc., sl. micaceous, yellowish brown	10YR3/2	0.95

Table 2

STANDARD PYROLYSIS DATA

GEOCHEM SAMPLE NUMBER	DEPTH	ORGANIC CARBON	S0 (mg/g)	S1 (mg/g)	S2 (mg/g)	PRODUCTION INDEX	HYDROGEN INDEX	T max (deg.C)
1602-139A	900	1.08	0.01	1.13	1.60	0.41	148.1	437
1602-140A	910	1.17	0.00	2.33	2.00	0.54	170.9	437
1602-141A	920	1.23	0.00	2.77	2.05	0.57	166.7	437
1602-142A	950	1.46	0.00	1.29	2.48	0.34	169.9	437
1602-143A	980	1.60	0.00	1.60	2.36	0.40	147.5	437
1602-144A	1173.4	0.67	0.00	0.32	0.70	0.31	104.5	446
1602-145A	1322.0	1.19	0.02	1.64	1.46	0.53	122.7	445
1602-146A	1365	2.71	0.00	1.30	2.39	0.35	88.2	451
1602-147A	1377.0	0.66	0.00	0.36	0.40	0.47	60.6	445
1602-148A	1380	1.49	0.00	0.45	1.08	0.29	72.5	445
1602-149A	1390	1.93	0.00	1.60	2.45	0.40	126.9	445
1602-150A	1400	2.27	0.00	2.21	3.40	0.39	149.8	450
1602-151A	1410	2.77	0.01	2.65	4.48	0.37	161.7	451
1602-152A	1415	3.46	0.01	2.92	6.09	0.32	176.0	453
1602-153A	1420	3.83	0.02	3.00	6.25	0.32	163.2	453
1602-154A	1425	3.86	0.01	2.49	5.26	0.32	136.3	453
1602-155A	1430	3.10	0.00	2.27	4.51	0.33	145.5	454
1602-037A	1481.0	3.25	0.07	1.64	4.15	0.28	127.7	450
1602-181B	1481.0	2.11	0.05	0.97	2.01	0.33	95.3	448
1602-130A	1830.8	0.69	0.00	0.16	0.24	0.40	34.8	448
1602-131A	1850.9	0.51	0.00	0.25	0.31	0.45	60.8	451
1602-132A	1942.3	25.20	0.07	10.73	53.35	0.17	211.7	465
1602-133A	2117.4	0.96	0.01	0.28	0.29	0.49	30.2	464
1602-134A	2141.2	0.92	0.01	0.29	0.19	0.60	20.7	457
1602-135A	2158.2	1.92	0.03	0.69	1.01	0.41	52.6	452
1602-136A	2184.6	2.00	0.04	1.49	0.89	0.63	44.5	460
1602-137A	2229.1	3.19	0.02	0.63	1.54	0.29	48.3	455
1602-158A	2230.0	1.12	0.01	0.33	0.47	0.41	42.0	458
1602-138A	2276.8	1.18	0.01	0.46	0.27	0.63	22.9	458
1602-159A	2582.5	0.62	0.00	0.21	0.18	0.54	29.0	417
1602-160A	2625.0	0.14	0.00	0.12	0.09	0.57	64.3	412

Table 2

STANDARD PYROLYSIS DATA

GEOCHEM SAMPLE NUMBER	DEPTH	ORGANIC CARBON	S0 (mg/g)	S1 (mg/g)	S2 (mg/g)	PRODUCTION INDEX	HYDROGEN INDEX	T max (deg.C)
1602-161A	2634.0	0.31	0.00	0.16	0.13	0.55	41.9	415
1602-162A	2650.0	1.16	0.01	0.14	0.24	0.37	20.7	431
1602-163A	2662.0	1.34	0.01	0.12	0.24	0.33	17.9	430
1602-164A	2668.0	0.15	0.00	0.14	0.10	0.58	66.7	424
1602-165A	2681.5	0.68	0.01	0.15	0.23	0.39	33.8	433
1602-166A	2685.0	1.10	0.01	0.16	0.26	0.38	23.6	435
1602-167A	2690.0	1.17	0.01	0.07	0.16	0.30	13.7	434
1602-168A	2719.0	1.21	0.01	0.07	0.14	0.33	11.6	436
1602-169A	2759.0	0.71	0.00	0.11	0.12	0.48	16.9	435
1602-170A	2778.0	1.48	0.01	0.09	0.20	0.31	13.5	440
1602-171A	2813.0	0.85	0.00	0.10	0.05	0.67	5.9	435
1602-172A	2830.0	1.34	0.00	0.14	0.19	0.42	14.2	436
1602-173A	2910.0	1.47	0.00	0.12	0.15	0.44	10.2	437
1602-174A	3063.0	1.14	0.00	0.14	0.18	0.44	15.8	441
1602-175A	3100.0	1.23	0.01	0.16	0.16	0.50	13.0	438
1602-176A	3269.0	1.37	0.01	0.11	0.05	0.69	3.6	436
1602-177A	3302.0	1.10	0.01	0.13	0.07	0.65	6.4	432
1602-178A	3366.0	1.62	0.05	0.21	0.04	0.84	2.5	439
1602-179A	3373.5	0.78	0.01	0.18	0.03	0.86	3.8	433
1602-180A	3396.0	0.95	0.01	0.25	0.01	0.96	1.1	433

TABLE 3a
GAS - OIL INDEX



GEOCHEM SAMPLE NUMBER	DEPTH	DRY GAS	WET GAS	GASOLINES KEROSENES	GAS OIL DISTILLATE	GAS-OIL INDEX
		% C ₁	% C ₂ - C ₅	% C ₆ - C ₁₄	% C ₁₅₊	$\frac{\% C_1 - C_5}{\text{TOTAL}}$
1602-139A	900	9.14	37.42	52.13	1.31	46.56
1602-141A	920	9.67	36.96	50.61	2.76	46.63
1602-142A	950	9.22	32.98	50.82	6.98	42.20
1602-147A	1377.0	4.47	43.16	50.97	1.40	47.63
1602-148A	1380	10.58	43.50	44.27	1.65	54.08
1602-149A	1390	9.05	37.14	46.63	7.18	46.19
1602-150A	1400	11.41	32.05	49.69	6.85	43.46
1602-151A	1410	23.79	25.47	44.68	6.06	49.26
1602-152A	1415	12.03	37.85	47.32	2.81	49.88
1602-153A	1420	9.76	39.80	44.94	5.50	49.56
1602-154A	1425	25.29	25.69	44.52	4.50	50.98
1602-155A	1430	11.39	42.33	44.08	2.20	53.72
1602-037A	1481.0	11.11	40.54	48.05	0.30	51.65
1602-181B	1481.0	9.59	45.91	43.47	1.02	55.51
1602-129A	1628.0	12.36	38.12	49.52	0.00	50.48
1602-131A	1850.9	11.55	34.35	52.90	1.20	45.90
1602-132A	1942.3	24.58	36.48	32.45	6.50	61.05
1602-133A	2117.4	10.93	36.95	52.02	0.10	47.88
1602-134A	2141.2	15.05	43.70	41.05	0.20	58.75
1602-137A	2229.1	23.47	44.19	32.24	0.10	67.66
1602-161A	2634.0	13.41	48.78	37.71	0.10	62.19
1602-162A	2650.0	24.00	46.29	29.50	0.21	70.29
1602-166A	2685.0	29.90	37.63	32.32	0.15	67.53
1602-171A	2813.0	26.67	44.00	29.23	0.10	70.67
1602-178A	3366.0	12.59	53.14	34.27	0.00	65.73
1602-179A	3373.5	10.91	52.98	36.01	0.10	63.89
1602-180A	3396.0	10.19	45.86	43.80	0.15	56.05

TABLE 3b
GAS - OIL INDEX



GEOCHEM SAMPLE NUMBER	DEPTH	DRY GAS	WET GAS	GASOLINES KEROSENES	GAS OIL DISTILLATE	GAS-OIL INDEX
		% C ₁	% C ₂ -C ₆	% C ₇ -C ₁₄	% C ₁₅ +	% C ₁ -C ₅ TOTAL
1602-139A	900	9.14	48.25	41.31	1.31	57.38
1602-141A	920	9.67	47.32	40.26	2.76	56.98
1602-142A	950	9.22	42.90	40.90	6.98	52.12
1602-147A	1377.0	4.47	59.21	34.92	1.40	63.68
1602-148A	1380	10.58	52.97	34.80	1.65	63.55
1602-149A	1390	9.05	45.78	37.99	7.18	54.83
1602-150A	1400	11.41	41.53	40.21	6.85	52.94
1602-151A	1410	23.79	36.56	33.59	6.06	60.35
1602-152A	1415	12.03	46.70	38.47	2.81	58.72
1602-153A	1420	9.76	50.18	34.56	5.50	59.94
1602-154A	1425	25.29	36.46	33.75	4.50	61.75
1602-155A	1430	11.39	54.95	31.46	2.20	66.34
1602-037A	1481.0	11.11	48.90	39.69	0.30	60.01
1602-181B	1481.0	9.59	56.45	32.94	1.02	66.04
1602-129A	1628.0	12.36	53.35	34.29	0.00	65.71
1602-131A	1850.9	11.55	49.20	38.05	1.20	60.75
1602-132A	1942.3	24.58	41.42	27.51	6.50	65.99
1602-133A	2117.4	10.93	49.25	39.72	0.10	60.18
1602-134A	2141.2	15.05	52.47	32.28	0.20	67.52
1602-137A	2229.1	23.47	49.32	27.11	0.10	72.79
1602-161A	2634.0	13.41	68.91	17.58	0.10	82.32
1602-162A	2650.0	24.00	59.43	16.36	0.21	83.43
1602-166A	2685.0	29.90	48.45	21.50	0.15	78.35
1602-171A	2813.0	26.67	56.00	17.23	0.10	82.67
1602-178A	3366.0	12.59	58.74	28.67	0.00	71.33
1602-179A	3373.5	10.91	64.93	24.06	0.10	75.84
1602-180A	3396.0	10.19	63.06	26.60	0.15	73.25

TABLE 4
KEROGEN TYPE AND MATURATION

GEOCHEM SAMPLE NUMBER	DEPTH	ORGANIC MATTER DESCRIPTION					THERMAL MATURATION	
		TYPES > 35%; 10-36%; < 10%	REMARKS	RE- WORKED (%)	PARTICLE SIZE	PRESERV- ATION	THERMAL ALTERATION INDEX	1 - 10 SCALE
<u>WELL 7321/8-1</u>								
1602-141	920m	Am; -; W-H-Al-I	finely disseminated	-	F-M	F-G	2	4
1602-148	1380m	Am; Al*; H-W-I	* degraded, passing to amorphous	-	F-M	F-G	2 to 2+/2+(?)	5.3(?)
1602-149	1390m	Am; -; Al-W-H-I		-	F-M	F-G	2 to 2+/2+(?)	5.3(?)
1602-150	1400m	Am; -; Al-H-W-I		-	F-M/C	F-G	2 to 2+/2+(?)	5.4
1602-151	1410m	Am; Al*; H*W-I	* includes degraded, unrecognisable material	-	F-M/C	F-G	2 to 2+/2+	5.4
1602-152	1415m	Am; H*; Al-W-I	* commonly degraded, includes unrecognisable material	-	F-M	F-G	2+ max	5.5
1602-153	1420m	Am; H*; Al-W-I	* as 152	-	F-M/C	F-G	2+	5.5
1602-154	1425m	Am; H*; Al-W-I	* as 152	-	F-M	F-G	2+	5.5
1602-155	1430m	Am; H*W; Al-I	* as 152	-	F-M/C	F	2+	5.5
1602-181	1481.00m	(W; H-I; Am)	differentiation frequently difficult, includes major proportions of very fine grained, amorphous - like material believed to comprise finely comminuted W and H	-	F-M/C	F	2+	5.5
1602-130	1830.8m	W; I; H	W/I differentiation difficult	-	M	G	2+	5.7
1602-131	1850.9m	W; I; H	W/I differentiation difficult	-	M	G	2+	5.7

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 4
KEROGEN TYPE AND MATURATION

GEOCHEM SAMPLE NUMBER	DEPTH	ORGANIC MATTER DESCRIPTION					THERMAL MATURATION	
		TYPES >35%: 10-35%: <10%	REMARKS	RE- WORKED (%)	PARTICLE SIZE	PRESERV- ATION	THERMAL ALTERATION INDEX	1 - 10 SCALE
1602-132	1942.3m	W;-; I-H		-	F-C	G	2+	5.8
1602-133	2117.4m	W;H*; I-Am	* frequently very fine grained, unrecognisable	-	F-C	F-G	2+ to 3-	6
1602-134	2141.2m	H; Am*-W; I	* extremely finely disseminated, unrecognisable may include very finely comminuted H and W	-	F-M/C	F	2+ to 3-	6
1602-135	2158.2m	H*; W-Am**; I	* frequently degraded, includes finely comminuted and degraded, unrecognisable material ** unrecognisable, possibly finely comminuted H ± W rather than true amorphous material	-	F-M	F	2+ to 3-	6
1602-136	2184.6m	W-H;-; I		-	M-C	G	2+ to 3-	6
1602-137	2229.1m	H*; W-AM**; I	<u>frequently fine grained and/ or degraded, differentiation difficult</u> * ** as 135	-	F-M	F	2+ to 3-	6.1
1602-138	2276.8m	H-W;-; I-Am		-	F-C	G	2+ to 3-	6.1
1602-159	2582.5m	(W-I; H; Am)	W/I differentiation extremely difficult, lean unreliable	-	F-M	F	3-	6.3

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 4
KEROGEN TYPE AND MATURATION

GEOCHEM SAMPLE NUMBER	DEPTH	ORGANIC MATTER DESCRIPTION					THERMAL MATURATION	
		TYPES > 35%, 10-35%, < 10%	REMARKS	RE WORKED (%)	PARTICLE SIZE	PRESERV- ATION	THERMAL ALTERATION INDEX	1-10 SCALE
1602-161	2634.0m	Am*; W; I-H	* extremely finely disseminated, <u>unrecognisable</u> may include very finely comminuted wood etc.	-	F	F	3- to 3(?)	6.5(?)
1602-162	2650.0m	W; H-I; -		-	F-M	G	3-	6.3
1602-163	2662.0m	W; I-H; -	W/I differentiation difficult	-	M	G	3-	6.3
1602-165	2668.0m	W-I; -; H-Am (-A1)	W/I differentiation difficult lean	-	F-M	G	3-	6.3
1602-166	2685.0m	W; I-H; Am	Sapropelisation W/I differentiation difficult	-	F-M	F-G	3-	6.3
1602-167	2690.0m	W; H-I; Am		-	F-M	G	3-	6.3
1602-168	2719.0m	W; I-H; Am-A1	W/I differentiation difficult	-	M	G	3- to 3	6.6
1602-169	2759.0m	W; I-H; Am	W/I differentiation difficult	-	M-C	G	3- to 3	6.6
1602-170	2778.0m	W; H-I; -		-	M-C	G	3- to 3	6.7
1602-172	2830.0m	W; H-I; Am	fairly lean	-	F-M	F-G	3 max	7
1602-173	2910.0m	W; H-I; Am		-	M	G	3(?)	7
1602-175	3100.0m	W; H; I-Am		-	M	G	3 to 3+	7.4
1602-176	3269.0m	Am*; -; I-W-H	* includes incompletely developed material, degraded, highly mature	-	F-M/C	F	3 to 3+	7.7

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 4
KEROGEN TYPE AND MATURATION**

GEOCHEM SAMPLE NUMBER	DEPTH	ORGANIC MATTER DESCRIPTION					THERMAL MATURATION	
		TYPES >35%; 10-35%; <10%	REMARKS	RE- WORKED (%)	PARTICLE SIZE	PRESERV- ATION	THERMAL ALTERATION INDEX	1 - 10 SCALE
1602-177	3302.0m	Am; -; I-W-A1-H		-	F-M	F	3 to 3+/3+	7.8
1602-178	3366.0m	-----	) highly mature, degraded,	-	F-M	F	3+	8
1602-179	3373.5m	-----	) largely unrecognisable - of	-	F-M	F	3+	8
1602-180	3396.0m	-----	) terrestrial(?) origin	-	F-M/C	F	3+	8

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 5

KEROGEN COMPOSITIONWELL : 7321/8-1

GEOCHEM SAMPLE NUMBER	DEPTH (metres)	AM	VISUAL KEROGEN (%)			
			AL	H	W	I
1602-141	920	80	<10	<10	<10	<5
1602-148	1380	80	10	<5	<5	<5
1602-149	1390	90	<10	<5	<5	1
1602-150	1400	85	<10	<5	<5	1
1602-151	1410	70	15	<10	<10	<5
1602-152	1415	75	<10	10	<10	<5
1602-153	1420	80	<10	10	<10	1
1602-154	1425	75	<10	10	<10	<5
1602-155	1430	65	<5	15	15	<5
1602-181	1481.00	(<10	-	30	55	10)
1602-130	1830.8	-	-	<10	85	10
1602-131	1850.9	-	-	<10	85	10
1602-132	1942.3	-	-	<5	90	<10
1602-133	2117.4	<10	-	25*	65	<10
1602-134	2141.2	25*	-	45	25	<5
1602-135	2158.2	10*	-	60*	25	<5
1602-136	2184.6	-	-	45	50	<10
1602-137	2229.1	10max*	-	60*	25	<5

* see remarks, table 4

TABLE 5

KEROGEN COMPOSITIONWELL : 7321/8-1

GEOCHEM SAMPLE NUMBER	DEPTH (metres)	AM	VISUAL KEROGEN (%)			
			AL	H	W	I
1602-138	2276.8	1	-	50	45	<10
1602-159	2582.5	(<5	-	15	50	35)
1602-161	2634.0	80*	-	<5	10	<10
1602-162	2650.0	-	-	25	55	20
1602-163	2662.0	-	-	15	70	15
1602-165	2668.0	<5	1	<10	50	35
1602-166	2685.0	1	-	20	55	25
1602-167	2690.0	1	-	30	55	10max
1602-168	2719.0	1	1	15	65	20
1602-169	2759.0	<5	-	15	60	20
1602-170	2778.0	-	-	30	60	10
1602-172	2830.0	1	-	25	60	10
1602-173	2910.0	1	-	30	60	10
1602-175	3100.0	1	-	30	60	<10
1602-176	3269.0	95*	-	1	1	<5
1602-177	3302.0	95	1	1	1	<5
1602-178	3366.0	)	highly mature, degraded,			
1602-179	3373.5	)	unrecognisable - of terrestrial(?)			
1602-180	3396.0	)	origin			

* see remarks, table 4

TABLE 6a
T C T D A T A
(PEAK AREA NORM%)

GEOCHEM SAMPLE NO.	001A	002A	003A	004A	005A	006A	007A
DEPTH	1444.00	1445.00	1446.00	1447.00	1448.00	1449.00	1450.00
nC4	13.73	2.52	3.37	1.12	8.85	1.75	3.52
nC5	11.28	9.14	10.84	4.08	27.39	10.90	17.98
nC6	2.77	6.85	10.54	2.12	3.33	5.28	8.00
nC7	2.65	2.45	2.22	0.67	1.87	2.19	2.16
nC8	3.03	6.51	3.80	0.65	2.01	2.70	3.61
nC9	2.94	2.17	4.11	1.78	4.45	3.28	4.64
nC10	4.43	4.13	6.46	3.45	4.20	14.77	6.10
nC11	3.48	5.16	8.59	2.94	5.08	13.75	7.25
nC12	3.86	5.12	8.92	3.23	0.71	16.20	7.90
nC13	2.66	5.97	9.38	4.08	0.57	13.15	9.09
nC14	3.85	5.25	8.30	5.92	0.92	5.75	9.01
nC15	3.66	5.35	5.29	6.81	1.67	4.63	10.76
nC16	4.28	5.51	3.52	11.16	3.12	3.36	5.40
nC17	5.05	5.50	3.01	13.71	4.93	1.52	3.41
nC18	6.58	5.15	3.09	12.10	5.60	0.77	1.17
nC19	5.50	4.95	2.82	10.43	5.68	0.00	0.00
nC20	4.79	4.22	2.51	6.85	3.99	0.00	0.00
nC21	4.45	3.51	1.75	4.44	3.81	0.00	0.00
nC22	3.71	3.32	1.47	2.63	3.53	0.00	0.00
nC23	3.01	2.74	0.00	1.25	3.44	0.00	0.00
nC24	2.62	2.50	0.00	0.60	2.84	0.00	0.00
nC25	1.66	1.98	0.00	0.00	2.03	0.00	0.00
Abundance	990	515	425	407	396	407	518

JOB NO. 1602
WELL 7321/8-1

TABLE 6a
T C T D A T A
(PEAK AREA NORM%)

GEOCHEM SAMPLE NO.	008A	009A	010A	011A	012A	013A	014A
DEPTH	1451.00	1452.00	1453.00	1454.00	1455.00	1456.00	1457.00
nC4	3.98	5.52	9.41	9.66	0.00	5.74	17.24
nC5	2.61	5.64	21.22	2.02	21.20	2.24	17.70
nC6	5.20	2.82	3.14	4.04	9.38	3.93	10.57
nC7	5.81	3.42	2.74	3.52	4.72	4.40	7.22
nC8	7.52	5.21	3.33	3.03	8.45	6.19	9.88
nC9	8.02	5.58	4.42	2.86	5.30	6.75	9.58
nC10	9.64	8.65	2.32	5.72	6.01	7.86	10.20
nC11	9.27	7.78	4.05	6.20	5.88	7.92	6.92
nC12	9.95	7.57	4.20	6.41	4.85	5.95	3.83
nC13	10.45	9.16	3.88	6.09	4.10	5.69	2.16
nC14	9.75	7.87	3.04	4.65	4.66	4.00	1.08
nC15	8.02	7.14	3.62	4.37	5.77	2.36	0.40
nC16	5.47	5.81	4.56	4.29	5.27	2.72	0.23
nC17	4.30	5.01	4.14	5.70	6.01	2.87	0.47
nC18	0.00	4.08	3.45	3.90	4.01	4.36	0.72
nC19	0.00	3.09	3.64	3.56	1.99	4.39	0.70
nC20	0.00	2.16	3.27	3.10	1.78	5.15	0.62
nC21	0.00	1.49	3.27	2.88	0.63	5.52	0.48
nC22	0.00	1.02	3.28	3.49	0.00	4.93	0.00
nC23	0.00	0.54	3.36	4.14	0.00	2.63	0.00
nC24	0.00	0.41	3.07	5.00	0.00	2.48	0.00
nC25	0.00	0.00	2.59	5.38	0.00	1.92	0.00
Abundance	452	610	412	555	514	486	986

JOB NO. 1602
WELL 7321/8-1

TABLE 6a
T C T D A T A
(PEAK AREA NORM%)

GEOCHEM SAMPLE NO.	015A	016	017A	018A	019A	020A	021A
DEPTH	1458.00	1459.00	1460.00	1461.00	1462.00	1463.00	1464.00
nC4	6.42	14.10	12.39	5.33	1.58	6.77	9.86
nC5	37.44	1.90	2.17	26.90	34.77	12.32	32.80
nC6	6.46	16.25	8.34	6.86	18.95	8.58	9.61
nC7	9.71	13.38	5.63	13.25	0.00	2.52	6.88
nC8	7.31	13.83	5.43	10.43	0.00	1.83	6.64
nC9	5.88	10.37	4.16	12.24	0.00	1.58	5.02
nC10	6.14	9.05	8.16	4.35	0.00	3.31	4.80
nC11	5.36	8.88	9.73	2.58	0.00	2.21	3.75
nC12	4.64	5.63	7.64	3.75	0.00	2.46	3.23
nC13	3.85	2.90	4.45	4.01	2.18	2.60	5.82
nC14	2.71	2.04	2.46	3.58	3.58	3.47	3.85
nC15	1.51	1.43	1.95	2.72	1.81	6.10	2.95
nC16	0.76	0.23	2.75	1.70	3.50	8.16	0.71
nC17	0.45	0.00	3.38	0.95	4.70	9.89	0.50
nC18	0.56	0.00	5.25	1.01	4.43	7.96	0.65
nC19	0.47	0.00	3.24	0.37	4.34	7.63	0.87
nC20	0.33	0.00	2.68	0.00	4.36	4.87	0.49
nC21	0.00	0.00	2.36	0.00	3.62	3.63	0.22
nC22	0.00	0.00	2.18	0.00	3.38	2.26	0.48
nC23	0.00	0.00	1.28	0.00	3.12	1.86	0.60
nC24	0.00	0.00	1.62	0.00	3.26	0.00	0.27
nC25	0.00	0.00	2.76	0.00	2.41	0.00	0.00
Abundance	822	2510	2022	1707	1506	982	4700

JOB NO. 1602
WELL 7321/8-1

TABLE 6a
T C T D A T A
(PEAK AREA NORM%)

GEOCHEM SAMPLE NO.	022A	023A	024A	025A	026A	027A	028A
DEPTH	1466.00	1467.00	1468.00	1469.00	1470.00	1471.00	1472.00
nC4	2.01	10.89	0.00	0.00	6.06	9.83	6.52
nC5	28.42	33.29	14.44	44.67	41.10	27.75	36.87
nC6	8.76	10.39	17.54	5.98	4.11	7.70	5.65
nC7	3.43	0.94	7.91	8.37	3.98	7.46	4.59
nC8	5.51	7.12	10.20	8.61	3.95	7.30	5.02
nC9	3.29	2.13	7.34	6.65	4.40	6.22	4.09
nC10	2.30	0.63	4.64	6.71	4.67	6.32	4.41
nC11	2.51	0.75	4.95	6.18	6.12	5.01	4.34
nC12	2.71	0.36	3.93	4.82	6.31	4.22	3.87
nC13	2.79	0.72	4.99	3.96	5.79	3.10	4.03
nC14	2.73	1.55	5.27	2.05	4.93	2.62	3.43
nC15	5.43	1.47	4.72	1.24	2.50	2.13	4.48
nC16	4.79	1.09	3.98	0.75	1.72	2.20	3.79
nC17	0.77	0.98	3.50	0.00	1.40	2.10	3.45
nC18	1.66	0.54	2.81	0.00	0.93	2.81	2.33
nC19	2.52	0.32	1.94	0.00	0.83	1.42	1.60
nC20	0.02	0.31	1.18	0.00	0.65	0.87	0.71
nC21	0.29	0.86	0.66	0.00	0.27	0.59	0.26
nC22	3.06	2.62	0.00	0.00	0.29	0.36	0.18
nC23	5.24	8.43	0.00	0.00	0.00	0.00	0.22
nC24	7.48	5.30	0.00	0.00	0.00	0.00	0.17
nC25	4.27	9.31	0.00	0.00	0.00	0.00	0.00
Abundance	450	171	1840	1955	2606	2804	3209

JOB NO. 1602
WELL 7321/8-1

TABLE 6a
T C T D A T A
(PEAK AREA NORM%)

GEOCHEM SAMPLE NO.	029A	030A	031A	032A	033A	034A	035A
DEPTH	1473.00	1474.00	1475.00	1476.00	1477.00	1478.00	1479.00
nC4	6.37	6.21	0.00	1.99	6.53	12.32	11.93
nC5	11.87	12.75	0.00	5.06	6.16	12.76	5.63
nC6	5.11	6.68	4.09	2.17	4.66	2.31	7.50
nC7	4.27	8.89	1.61	1.05	1.30	1.73	7.39
nC8	5.35	6.11	1.80	1.18	2.30	1.34	6.61
nC9	4.04	3.82	1.57	1.58	3.18	1.53	5.80
nC10	8.80	2.65	2.23	1.44	4.58	0.56	5.17
nC11	3.77	2.15	4.02	3.25	5.87	1.01	5.17
nC12	3.44	2.12	4.88	3.90	8.56	2.77	5.38
nC13	4.03	3.78	7.51	5.16	10.49	1.96	7.52
nC14	3.64	4.52	8.63	7.97	12.49	1.72	8.49
nC15	4.74	4.43	10.06	10.76	12.74	3.45	8.09
nC16	4.62	5.56	8.91	11.96	11.16	5.44	5.51
nC17	5.32	6.46	6.81	11.87	7.55	6.61	3.78
nC18	4.63	6.10	5.77	8.07	2.41	6.69	2.60
nC19	4.13	5.35	6.79	4.02	0.00	6.98	2.17
nC20	3.55	3.88	5.60	2.85	0.00	6.07	1.25
nC21	3.19	2.74	5.18	3.30	0.00	5.40	0.00
nC22	2.52	2.34	4.83	3.26	0.00	5.06	0.00
nC23	3.05	1.66	4.43	3.48	0.00	4.63	0.00
nC24	2.03	1.15	3.27	2.72	0.00	4.16	0.00
nC25	1.54	0.65	2.00	2.97	0.00	5.50	0.00
Abundance	875	510	486	415	310	420	601

JOB NO. 1602
WELL 7321/8-1

TABLE 6a
T C T D A T A
(PEAK AREA NORM%)

GEOCHEM SAMPLE NO.	036A	037	038	039A	040A	041A	042
DEPTH	1480.00	1481.00	1482.00	1483.00	1484.00	1485.00	1486.00
nC4	16.21	9.75	18.22	1.17	28.28	4.49	21.28
nC5	10.92	3.46	2.99	7.15	1.64	35.43	22.98
nC6	11.31	4.53	4.49	7.85	1.95	9.78	12.23
nC7	8.76	5.50	4.77	6.58	2.48	6.97	9.51
nC8	1.29	2.12	4.74	7.67	3.34	4.80	8.91
nC9	4.65	5.35	2.71	6.54	4.54	3.78	7.39
nC10	3.76	7.95	2.88	7.27	4.76	5.82	6.14
nC11	6.66	6.86	3.43	6.30	4.53	5.21	5.29
nC12	3.79	7.90	3.50	5.95	5.60	4.39	3.35
nC13	4.87	8.16	3.75	7.99	8.24	4.07	1.84
nC14	5.79	4.23	4.83	10.08	3.49	3.04	0.82
nC15	5.36	6.77	4.60	9.21	9.54	2.63	0.25
nC16	3.63	6.11	5.31	6.29	5.60	2.30	0.00
nC17	3.05	3.18	4.84	3.70	3.23	1.61	0.00
nC18	2.88	2.45	6.75	2.84	2.17	1.19	0.00
nC19	3.03	2.49	4.94	0.88	2.97	1.23	0.00
nC20	2.26	2.66	5.13	1.09	3.32	1.10	0.00
nC21	1.79	3.51	4.30	1.44	1.28	0.72	0.00
nC22	0.00	1.65	2.56	0.00	1.65	0.66	0.00
nC23	0.00	1.94	1.74	0.00	0.84	0.40	0.00
nC24	0.00	1.90	2.08	0.00	0.57	0.19	0.00
nC25	0.00	1.51	1.44	0.00	0.00	0.17	0.00
Abundance	672	812	1410	1100	682	761	1706

JOB NO. 1602
WELL 7321/8-1

TABLE 6a
T C T D A T A
(PEAK AREA NORM%)

GEOCHEM SAMPLE NO.	043	044A	045A	046A	047A	048A	049A
DEPTH	1487.00	1488.00	1490.00	1491.00	1492.00	1494.00	1495.00
nC4	4.47	6.52	3.72	2.42	0.00	0.00	2.14
nC5	14.72	1.70	4.23	3.64	2.29	3.13	1.69
nC6	9.97	3.65	1.04	1.36	0.29	1.31	1.77
nC7	8.83	1.88	1.01	0.17	0.42	0.61	1.26
nC8	7.94	1.69	0.73	0.12	0.00	0.00	1.02
nC9	5.94	1.23	0.58	0.18	0.10	0.70	0.74
nC10	6.23	1.82	0.63	0.40	0.32	1.06	0.93
nC11	6.00	2.10	0.31	0.15	0.70	1.00	0.91
nC12	5.41	3.93	0.55	0.29	1.82	2.88	1.82
nC13	6.01	10.22	0.78	0.51	5.20	7.71	4.61
nC14	5.27	13.91	1.23	1.28	10.16	8.89	7.88
nC15	5.21	12.12	1.90	3.33	14.04	9.05	8.86
nC16	3.53	7.99	3.67	8.05	13.24	8.63	8.73
nC17	2.79	7.14	6.14	11.43	12.42	8.31	9.59
nC18	2.48	7.03	8.11	12.45	9.83	8.20	8.17
nC19	2.29	5.93	10.31	14.88	8.89	8.25	8.73
nC20	1.17	3.86	9.66	11.60	6.13	6.93	7.04
nC21	0.74	2.35	10.64	8.49	4.66	6.54	5.95
nC22	0.62	1.88	9.98	6.76	3.38	6.28	5.48
nC23	0.38	1.06	9.25	5.39	2.56	4.91	4.91
nC24	0.00	0.70	8.07	4.10	1.99	3.37	4.07
nC25	0.00	1.30	7.46	3.00	1.56	2.25	3.72
Abundance	1766	706	983	706	852	906	1012

JOB NO. 1602
WELL 7321/8-1

TABLE 6a
T C T D A T A
(PEAK AREA NORM%)

GEOCHEM SAMPLE NO.	050A	051A	052A	053A	054A	055A	056A
DEPTH	1496.00	1497.00	1498.00	1499.00	1500.00	1501.00	1502.00
nC4	0.11	0.13	0.90	1.32	2.91	6.11	2.19
nC5	3.52	3.85	3.61	16.74	4.33	2.50	0.00
nC6	0.35	0.62	0.72	14.01	6.01	2.25	5.47
nC7	0.74	0.00	0.08	0.60	5.25	0.52	7.12
nC8	0.47	0.30	0.75	0.90	5.64	0.91	3.06
nC9	1.51	0.00	0.99	0.85	4.35	0.90	3.26
nC10	0.97	0.00	1.98	2.64	6.59	3.95	5.51
nC11	0.71	0.29	3.93	6.57	5.28	2.23	6.51
nC12	1.43	0.79	6.65	3.74	5.50	17.14	6.43
nC13	4.29	1.81	11.79	4.08	6.44	8.04	8.42
nC14	9.11	3.90	14.05	4.75	6.75	7.97	8.93
nC15	12.31	5.46	10.09	7.13	6.40	10.14	8.76
nC16	12.54	6.24	5.80	8.26	6.08	9.71	7.17
nC17	11.81	9.75	6.01	8.55	5.76	6.45	6.79
nC18	9.60	11.22	7.59	7.85	4.30	5.09	5.79
nC19	9.08	11.19	7.91	6.86	4.33	4.53	4.95
nC20	6.63	9.26	4.78	3.70	3.48	3.11	2.92
nC21	5.14	8.88	3.40	1.46	3.13	2.14	1.96
nC22	3.64	8.08	2.75	0.00	2.40	1.82	1.57
nC23	2.61	7.40	2.38	0.00	2.22	1.69	1.22
nC24	1.96	6.44	2.01	0.00	1.58	1.40	1.02
nC25	1.46	4.40	1.85	0.00	1.27	1.40	0.95
Abundance	752	520	593	606	1459	690	942

JOB NO. 1602
WELL 7321/8-1

TABLE 6a
T C T D A T A
(PEAK AREA NORM%)

GEOCHEM SAMPLE NO.	057A	058A	059A	060A	061A	062A	063A
DEPTH	1503.00	1504.00	1505.00	1506.00	1507.00	1508.00	1509.00
nC4	0.89	0.62	2.76	3.39	0.12	5.32	2.20
nC5	3.75	9.12	0.56	1.87	0.21	0.29	0.00
nC6	0.37	4.21	0.28	0.57	0.61	0.58	0.00
nC7	0.53	1.32	0.27	0.00	0.82	0.58	0.33
nC8	0.53	1.27	0.27	0.25	1.73	0.61	0.87
nC9	0.59	1.75	0.56	1.10	1.74	1.29	1.17
nC10	0.62	3.02	1.03	1.55	3.07	2.36	2.58
nC11	1.00	3.47	1.44	2.42	3.83	4.63	3.97
nC12	1.53	4.82	2.41	3.84	6.19	8.38	7.69
nC13	2.98	8.96	4.20	7.22	11.06	14.24	12.85
nC14	5.45	13.17	6.00	10.74	15.38	17.81	13.34
nC15	8.84	13.82	9.31	11.75	17.45	18.69	15.68
nC16	10.49	8.21	11.58	9.35	18.18	14.18	13.57
nC17	11.92	4.68	12.18	8.36	12.40	0.86	10.37
nC18	10.85	4.06	10.07	7.69	5.60	4.12	6.29
nC19	10.33	5.14	9.09	8.08	1.62	2.00	4.25
nC20	7.46	4.98	6.37	6.33	0.00	1.29	2.09
nC21	6.24	3.61	5.29	5.09	0.00	1.06	0.94
nC22	5.15	2.34	4.67	3.89	0.00	0.73	0.50
nC23	4.25	1.42	4.23	2.92	0.00	0.44	0.42
nC24	3.46	0.00	3.87	2.18	0.00	0.30	0.44
nC25	2.76	0.00	3.55	1.39	0.00	0.24	0.45
Abundance	355	666	503	410	592	719	777

JOB NO. 1602
WELL 7321/8-1

TABLE 6a
T C T DATA
(PEAK AREA NORM%)

GEOCHEM SAMPLE NO.	064A	065A	066A	067A	068A	069A	070A
DEPTH	1510.00	1511.00	1512.00	1513.00	1514.00	1515.00	1516.00
nC4	0.00	0.18	6.36	0.17	0.31	0.38	2.74
nC5	1.12	0.30	0.91	0.84	0.17	5.45	5.47
nC6	0.09	0.10	0.61	0.24	0.17	0.88	1.23
nC7	0.30	0.45	0.64	0.00	0.37	0.98	0.76
nC8	0.50	0.42	1.00	0.53	0.38	0.84	0.53
nC9	0.54	0.31	1.01	0.37	0.48	1.52	0.33
nC10	0.82	0.50	2.87	0.66	0.93	6.70	0.60
nC11	1.92	0.98	3.54	2.12	1.46	7.12	0.67
nC12	3.54	2.23	5.17	3.81	2.89	12.33	1.16
nC13	7.25	7.04	5.23	6.71	4.57	16.15	1.73
nC14	10.05	16.34	4.70	9.85	6.47	16.59	3.00
nC15	13.05	17.74	5.38	10.44	7.95	16.18	4.24
nC16	12.02	8.51	6.94	8.41	10.14	12.84	5.40
nC17	10.64	7.94	7.55	8.03	12.59	2.04	7.80
nC18	8.48	9.89	7.99	7.44	12.94	0.00	9.43
nC19	8.10	10.12	8.67	8.14	12.31	0.00	11.02
nC20	5.78	6.04	6.94	7.03	9.37	0.00	9.51
nC21	4.59	3.86	5.67	6.33	6.47	0.00	8.29
nC22	3.55	2.89	5.06	5.65	4.32	0.00	8.27
nC23	2.94	1.91	4.95	5.05	2.79	0.00	7.88
nC24	2.52	1.35	4.50	4.26	1.88	0.00	5.81
nC25	2.20	0.91	4.32	3.92	1.04	0.00	4.14
Abundance	415	584	752	822	806	492	614

JOB NO. 1602
WELL 7321/8-1

TABLE 6a
T C T D A T A
(PEAK AREA NORM%)

GEOCHEM SAMPLE NO.	071A	072A	073A	074A	075A	076A	077A
DEPTH	1517.00	1518.00	1519.00	1520.00	1521.00	1522.00	1523.00
nC4	4.48	2.03	0.93	2.35	3.91	0.31	9.72
nC5	0.49	10.10	5.71	8.49	5.06	3.56	0.84
nC6	0.98	2.11	0.82	0.71	2.94	2.25	0.84
nC7	0.17	2.68	0.55	0.81	0.54	0.23	0.30
nC8	0.27	1.44	0.46	0.40	0.43	0.49	0.44
nC9	0.73	0.78	0.45	0.39	1.26	0.02	1.04
nC10	0.68	2.24	1.02	0.44	2.23	1.03	3.01
nC11	0.67	1.56	1.13	0.18	3.23	1.23	3.44
nC12	1.49	3.27	2.03	0.66	5.79	2.50	4.84
nC13	3.65	8.39	5.11	1.81	8.78	5.83	6.60
nC14	6.98	0.00	10.64	4.93	11.06	10.67	9.20
nC15	8.68	19.24	15.26	7.88	12.42	13.82	10.20
nC16	8.87	15.92	15.27	9.82	11.74	12.52	9.11
nC17	9.43	11.77	13.81	11.40	10.92	11.30	9.00
nC18	8.78	5.49	9.96	7.08	7.66	9.08	7.47
nC19	8.60	3.71	7.58	6.71	6.02	7.85	6.65
nC20	7.74	3.04	4.31	6.59	2.44	5.51	5.13
nC21	6.91	2.40	1.93	8.73	1.52	3.96	4.11
nC22	6.23	1.76	1.01	7.74	0.85	2.90	3.17
nC23	5.48	1.03	2.00	6.85	0.74	2.06	2.22
nC24	4.82	0.60	0.00	6.01	0.44	1.62	1.61
nC25	3.89	0.45	0.00	0.00	0.00	1.28	1.05
Abundance	685	596	820	772	911	493	551

JOB NO. 1602
WELL 7321/8-1

TABLE 6a
T C T DATA
(PEAK AREA NORM%)

GEOCHEM SAMPLE NO.	078A	079A	080A	081A	082A	083A	084A
DEPTH	1524.00	1525.00	1526.00	1527.00	1528.00	1529.00	1530.00
nC4	3.11	0.00	0.00	18.49	9.11	2.71	2.21
nC5	2.67	3.06	0.00	24.94	3.08	1.13	0.33
nC6	2.45	2.84	0.00	9.38	7.95	0.57	0.66
nC7	0.52	0.35	0.17	8.60	7.03	0.40	0.73
nC8	0.68	0.26	0.45	7.37	6.53	0.92	0.22
nC9	1.41	0.77	0.29	5.14	4.92	0.95	0.29
nC10	2.19	1.45	0.78	4.47	4.46	1.35	1.02
nC11	2.68	2.25	1.45	5.04	3.84	1.61	1.05
nC12	4.17	3.94	3.78	6.24	3.81	2.12	1.70
nC13	5.95	6.82	8.76	8.01	5.45	4.17	2.11
nC14	7.00	8.99	11.46	2.30	11.01	6.59	4.13
nC15	8.01	10.85	10.90	0.00	13.32	9.33	8.16
nC16	7.92	10.31	8.44	0.00	8.31	9.79	9.49
nC17	8.52	9.47	9.10	0.00	5.37	10.25	10.79
nC18	10.17	7.45	8.63	0.00	3.64	9.02	11.35
nC19	11.81	6.46	7.99	0.00	2.18	9.45	11.78
nC20	6.87	5.24	6.11	0.00	0.00	7.30	10.07
nC21	4.26	5.05	5.40	0.00	0.00	7.27	8.21
nC22	3.34	4.63	4.85	0.00	0.00	5.11	6.00
nC23	2.62	4.08	4.39	0.00	0.00	4.13	4.36
nC24	2.00	3.36	3.83	0.00	0.00	3.66	3.19
nC25	1.66	2.36	3.20	0.00	0.00	2.16	2.14
Abundance	618	415	851	4060	3720	1206	415

JOB NO. 1602
WELL 7321/8-1

TABLE 6a
T C T D A T A
(PEAK AREA NORM%)

GEOCHEM SAMPLE NO.	085A	086A	087A	088A	089A	090A	091A
DEPTH	1531.00	1532.00	1533.00	1534.00	1535.00	1536.00	1537.00
nC4	2.39	5.64	3.28	0.00	7.51	0.23	1.10
nC5	2.93	8.31	1.09	0.50	2.38	2.00	1.56
nC6	2.59	0.83	1.56	0.00	2.83	1.25	1.32
nC7	0.32	0.70	1.39	0.91	2.61	0.00	1.53
nC8	0.45	0.89	0.69	0.27	3.35	0.00	1.74
nC9	0.41	0.24	0.57	13.21	2.50	0.00	1.28
nC10	1.74	0.41	0.48	13.21	1.86	0.00	2.19
nC11	1.03	0.37	0.35	14.23	1.53	1.02	2.93
nC12	1.74	0.00	0.62	11.72	1.52	2.87	5.94
nC13	7.84	0.57	0.75	10.73	1.60	4.31	9.64
nC14	15.31	1.00	1.21	9.47	3.11	5.67	12.58
nC15	19.13	1.62	2.38	7.63	4.40	8.88	15.00
nC16	15.60	3.69	4.14	6.47	3.75	7.59	12.42
nC17	11.18	10.38	6.60	5.04	5.87	5.38	11.07
nC18	7.90	12.91	8.19	4.21	10.48	8.74	7.77
nC19	4.69	13.43	10.30	2.40	13.07	14.19	5.44
nC20	1.86	9.88	9.70	0.00	9.89	9.73	2.57
nC21	1.07	7.86	10.37	0.00	7.40	8.12	1.17
nC22	0.91	6.55	9.97	0.00	5.23	6.31	0.65
nC23	0.50	6.47	9.32	0.00	3.82	5.97	0.58
nC24	0.43	4.76	8.35	0.00	2.76	4.28	0.66
nC25	0.00	3.49	8.69	0.00	2.52	3.46	0.85
Abundance	985	515	520	750	780	715	725

JOB NO. 1602
WELL 7321/8-1

TABLE 6a
T C T DATA
(PEAK AREA NORM%)

GEOCHEM SAMPLE NO.	092A	093A	094A	095A	096A	097A	098A
DEPTH	1538.00	1539.00	1540.00	1541.00	1542.00	1543.00	1544.00
nC4	0.00	2.37	2.07	0.16	2.38	0.19	5.72
nC5	4.92	5.09	3.79	0.67	13.87	1.48	11.80
nC6	4.71	3.23	1.39	1.34	10.08	0.57	3.23
nC7	1.20	6.38	1.11	0.22	6.77	0.09	6.54
nC8	0.00	5.20	0.50	0.54	5.31	0.09	3.16
nC9	0.00	3.25	0.17	0.14	3.30	0.05	2.12
nC10	0.00	3.90	0.21	0.39	3.10	0.11	2.08
nC11	0.00	4.93	0.54	0.00	1.55	0.09	2.29
nC12	1.06	5.49	0.53	0.19	1.36	0.11	2.63
nC13	0.90	11.14	0.61	0.31	2.36	0.25	2.70
nC14	0.96	8.30	0.98	0.77	2.02	0.49	7.68
nC15	1.05	6.78	1.61	1.70	4.15	0.76	9.79
nC16	1.43	5.09	4.00	2.66	6.38	3.68	8.87
nC17	5.10	4.51	9.65	0.45	5.46	9.53	8.53
nC18	10.16	3.89	12.51	15.18	4.52	12.73	7.32
nC19	14.96	4.02	13.33	18.60	3.00	14.54	6.03
nC20	13.38	3.44	10.09	15.11	3.43	12.39	3.86
nC21	11.93	3.17	8.92	12.54	4.41	10.75	2.58
nC22	9.97	2.84	8.05	10.04	6.10	10.01	1.65
nC23	8.72	2.24	7.51	8.23	4.99	8.81	0.90
nC24	5.69	3.25	6.76	6.27	3.38	7.42	0.50
nC25	3.85	1.48	5.70	4.47	2.08	5.85	0.00
Abundance	718	1610	772	991	1055	820	1640

JOB NO. 1602
WELL 7321/8-1

TABLE 6a
T C T D A T A
(PEAK AREA NORM%)

GEOCHEM SAMPLE NO.	099	100A	101A	102A	104	105	106
DEPTH	1545.0	1545.5	1546.0	1546.8	1548.0	1548.5	1551.0
nC4	3.37	0.98	1.16	2.31	0.88	0.38	1.72
nC5	4.82	4.29	4.36	3.17	0.88	0.94	2.03
nC6	1.65	0.67	1.22	0.89	0.38	0.14	1.25
nC7	1.64	0.91	1.25	1.09	0.44	0.11	4.08
nC8	2.16	0.92	1.44	1.98	1.01	0.47	2.85
nC9	2.76	1.21	3.64	2.94	0.88	0.34	2.57
nC10	4.07	1.10	5.34	3.72	0.25	1.12	4.38
nC11	4.76	2.07	6.98	4.85	1.37	0.63	4.79
nC12	6.64	3.58	8.98	6.06	2.89	4.79	5.51
nC13	7.07	6.99	13.52	7.57	5.71	6.61	8.30
nC14	10.22	9.40	14.67	10.01	7.20	8.26	10.55
nC15	11.61	11.19	13.25	11.47	6.95	9.64	10.84
nC16	10.17	10.87	8.25	9.63	7.07	5.77	8.52
nC17	10.79	10.21	5.08	8.79	10.33	4.26	6.89
nC18	9.18	10.28	0.96	7.35	11.65	7.22	6.08
nC19	5.30	8.73	0.70	5.98	11.95	13.60	6.16
nC20	2.28	5.56	0.78	3.65	9.25	11.68	4.39
nC21	1.49	3.78	1.23	2.57	7.29	8.28	3.21
nC22	0.00	2.96	1.75	1.94	5.32	5.48	2.29
nC23	0.00	1.91	1.80	1.75	3.84	3.89	1.61
nC24	0.00	1.40	1.70	1.27	2.64	3.31	1.16
nC25	0.00	0.99	1.94	1.00	1.81	3.06	0.81
Abundance	1820	925	610	871	1720	1310	3850

JOB NO. 1602
WELL 7321/8-1

TABLE 6a
T C T DATA
(PEAK AREA NORM%)

GEOCHEM SAMPLE NO.	107A	108A	109	110	111	112	113
DEPTH	1551.5	1552.0	1555.0	1557.0	1557.5	1558.0	1559.0
nC4	0.84	3.02	8.12	12.03	2.34	7.08	0.42
nC5	0.64	5.00	17.57	6.45	7.22	15.04	4.75
nC6	0.55	0.52	5.65	11.46	5.61	8.56	10.67
nC7	0.28	0.75	5.69	10.38	4.32	8.08	6.99
nC8	0.00	0.70	4.42	5.95	6.57	9.73	7.63
nC9	1.16	0.61	5.96	7.60	6.93	8.88	6.19
nC10	2.79	1.51	5.84	10.60	8.69	10.22	8.96
nC11	4.56	3.10	6.97	10.05	7.74	7.16	8.94
nC12	9.08	6.31	7.51	7.31	6.76	6.01	7.77
nC13	15.42	14.80	8.33	6.29	7.08	5.06	8.60
nC14	19.19	12.73	9.54	5.53	6.06	4.11	6.98
nC15	23.39	16.99	3.33	3.02	6.04	2.49	6.42
nC16	13.22	16.56	2.90	2.48	5.63	2.13	4.65
nC17	3.79	5.97	2.46	0.47	5.18	1.23	3.53
nC18	0.96	1.90	3.11	0.10	3.52	0.85	2.74
nC19	0.41	1.25	1.39	0.14	3.26	0.45	1.97
nC20	0.22	0.90	0.73	0.07	2.38	0.46	1.12
nC21	0.24	0.96	0.27	0.02	1.76	0.33	0.64
nC22	0.37	1.09	0.21	0.03	1.14	0.39	0.42
nC23	0.58	1.38	0.00	0.00	0.70	0.24	0.31
nC24	0.92	1.80	0.00	0.00	0.63	0.17	0.30
nC25	1.39	2.15	0.00	0.00	0.46	1.34	0.00
Abundance	2856	2161	399	552	995	852	1410

JOB NO. 1602
WELL 7321/8-1

TABLE 6a
T C T D A T A
(PEAK AREA NORM%)

GEOCHEM SAMPLE NO.	114A	115	116	117	118	119	120
DEPTH	1560.0	1561.0	1562.0	1562.5	1563.0	1564.0	1564.5
nC4	1.27	17.73	0.33	0.65	4.11	4.00	0.67
nC5	11.05	7.47	10.30	11.82	1.47	1.86	6.00
nC6	5.45	8.33	6.85	7.06	0.00	6.40	5.80
nC7	2.65	4.10	5.70	8.94	9.12	7.17	6.64
nC8	3.06	9.44	7.81	10.13	6.14	8.19	7.86
nC9	6.54	7.49	6.60	9.85	6.20	8.41	6.32
nC10	5.98	3.84	7.39	10.65	7.26	7.22	7.92
nC11	6.38	4.35	6.75	9.72	8.13	7.37	6.85
nC12	4.82	4.67	6.21	9.45	7.88	6.12	7.78
nC13	5.81	4.02	5.96	8.35	8.29	6.07	7.43
nC14	4.95	4.32	4.90	5.15	7.10	6.38	7.31
nC15	5.15	4.14	4.57	3.43	6.89	6.14	6.60
nC16	4.21	3.43	4.17	2.30	6.23	5.30	8.50
nC17	4.28	2.49	4.68	2.25	5.92	4.53	7.02
nC18	5.64	2.03	4.41	0.23	4.83	2.26	3.79
nC19	5.74	2.38	4.51	0.00	3.93	1.35	2.33
nC20	4.79	2.16	3.15	0.00	2.38	0.53	0.84
nC21	3.82	2.08	2.06	0.00	1.58	0.36	0.33
nC22	3.04	1.69	1.48	0.00	0.99	0.95	0.00
nC23	2.11	1.65	1.00	0.00	0.64	1.59	0.00
nC24	2.00	1.19	0.60	0.00	0.37	2.76	0.00
nC25	1.28	1.00	0.56	0.00	0.52	5.04	0.00
Abundance	2162	1102	1210	992	1356	1029	608

JOB NO. 1602
WELL 7321/8-1

TABLE 6a
T C T D A T A
(PEAK AREA NORM%)

GEOCHEM SAMPLE NO.	121	122	123	124	125A	126	127A
DEPTH	1565.0	1565.5	1566.0	1566.5	1567.00	1567.5	1570.0
nC4	0.90	1.80	22.14	1.76	0.83	0.34	4.52
nC5	6.24	9.84	15.18	1.12	1.70	6.21	13.05
nC6	5.01	7.12	7.05	8.48	1.38	15.04	9.18
nC7	5.41	5.44	6.52	5.88	4.53	0.39	5.94
nC8	5.52	6.80	6.05	8.45	4.43	13.35	9.10
nC9	6.18	6.30	5.12	8.94	5.75	8.06	7.74
nC10	8.11	6.20	5.05	10.19	8.42	8.26	9.30
nC11	7.14	5.98	4.99	8.80	9.38	8.53	7.58
nC12	6.65	5.99	3.43	7.67	9.30	7.11	6.91
nC13	7.46	7.47	3.45	8.07	13.89	5.99	6.15
nC14	6.66	7.19	2.19	7.38	7.48	3.79	4.69
nC15	7.14	8.30	2.23	5.84	6.67	3.45	4.38
nC16	6.15	6.14	2.37	4.16	5.04	2.89	3.22
nC17	5.17	4.44	2.74	3.02	4.50	3.95	2.37
nC18	4.83	3.44	2.45	2.87	3.75	5.34	1.99
nC19	3.97	3.91	2.41	2.60	3.53	2.14	1.26
nC20	1.89	1.88	1.78	1.69	2.49	0.60	0.73
nC21	1.15	0.96	1.36	1.06	2.25	0.51	0.84
nC22	0.86	0.42	1.05	0.73	1.39	0.61	1.05
nC23	1.54	0.37	0.97	0.51	1.33	0.84	0.00
nC24	1.36	0.00	0.72	0.44	1.11	1.27	0.00
nC25	0.65	0.00	0.76	0.35	0.85	1.33	0.00
Abundance	615	862	1510	718	1120	1086	832

JOB NO. 1602
WELL 7321/8-1

TABLE 6a
T C T DATA
(PEAK AREA NORM%)

GEOCHEM SAMPLE NO.	128	129	156A	157A	160A	164A
DEPTH	1573.0	1628.0	1915.3	2213.7	2625.0	2668.0
nC4	4.37	5.26	26.80	6.36	2.42	9.36
nC5	18.91	27.91	21.44	19.18	27.38	56.37
nC6	9.33	28.29	21.38	27.51	43.10	7.48
nC7	10.11	3.36	18.09	7.57	4.27	4.49
nC8	12.18	1.10	12.28	6.34	0.50	6.61
nC9	11.81	1.66	0.00	3.48	0.16	2.05
nC10	11.51	2.62	0.00	1.81	1.91	1.76
nC11	8.34	3.31	0.00	1.21	0.71	1.01
nC12	4.63	1.53	0.00	2.18	1.29	2.45
nC13	2.20	0.00	0.00	0.72	0.82	7.20
nC14	0.61	0.95	0.00	1.23	0.98	1.22
nC15	0.48	0.00	0.00	0.97	1.84	0.00
nC16	0.74	1.04	0.00	1.36	1.28	0.00
nC17	0.85	1.59	0.00	2.37	1.86	0.00
nC18	0.90	2.39	0.00	4.14	1.73	0.00
nC19	0.91	3.20	0.00	4.78	1.75	0.00
nC20	0.71	3.03	0.00	2.92	1.71	0.00
nC21	0.62	2.94	0.00	1.87	1.02	0.00
nC22	0.46	2.60	0.00	1.14	1.25	0.00
nC23	0.35	2.50	0.00	0.87	1.85	0.00
nC24	0.00	2.46	0.00	0.78	1.25	0.00
nC25	0.00	2.24	0.00	1.19	0.91	0.00
Abundance	980	165	86	206	110	121

JOB NO. 1602
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TABLE 6b
T C T D A T A
(PEAK HEIGHT NORM%)

GEOCHEM SAMPLE NO.	001A	002A	003A	004A	005A	006A	007A
DEPTH	1444.00	1445.00	1446.00	1447.00	1448.00	1449.00	1450.00
nC4	6.23	0.87	1.04	0.63	12.61	1.83	2.33
nC5	9.46	5.77	13.37	4.91	25.94	12.72	22.41
nC6	4.32	4.33	13.01	0.96	5.05	6.17	10.55
nC7	3.56	2.53	2.56	0.72	2.70	2.49	2.64
nC8	3.77	2.95	3.43	0.76	1.64	2.67	3.67
nC9	3.25	3.05	4.09	1.18	3.22	3.65	4.96
nC10	4.16	4.69	6.89	2.02	3.69	8.70	6.08
nC11	3.64	5.53	8.65	2.65	1.71	14.31	7.04
nC12	4.74	6.63	8.62	3.10	0.67	17.55	7.59
nC13	3.57	6.40	8.97	4.25	0.68	14.34	8.10
nC14	4.27	5.36	8.12	5.58	1.12	5.96	8.20
nC15	4.47	6.81	4.83	7.23	2.06	4.65	7.70
nC16	5.28	6.38	3.51	11.70	3.82	3.15	4.92
nC17	6.33	6.93	2.89	15.63	5.60	1.43	2.80
nC18	7.10	5.90	2.68	12.67	6.26	0.37	1.00
nC19	6.37	5.45	2.69	10.09	5.62	0.00	0.00
nC20	5.30	5.09	2.20	6.86	4.41	0.00	0.00
nC21	4.81	4.24	1.57	4.53	4.05	0.00	0.00
nC22	4.00	3.87	0.88	2.78	3.37	0.00	0.00
nC23	2.82	3.08	0.00	1.26	2.74	0.00	0.00
nC24	1.82	2.35	0.00	0.48	1.95	0.00	0.00
nC25	0.74	1.80	0.00	0.00	1.09	0.00	0.00
Abundance	990	515	425	407	396	407	518

JOB NO. 1602
WELL 7321/8-1

TABLE 6b
T C T D A T A
(PEAK HEIGHT NORM%)

GEOCHEM SAMPLE NO.	008A	009A	010A	011A	012A	013A	014A
DEPTH	1451.00	1452.00	1453.00	1454.00	1455.00	1456.00	1457.00
nC4	3.25	1.82	10.60	7.31	0.00	5.17	5.36
nC5	3.25	2.39	30.76	3.23	15.02	2.62	17.21
nC6	6.45	1.13	3.73	6.46	6.64	4.60	10.28
nC7	6.72	2.87	2.59	1.74	5.92	5.62	10.47
nC8	7.87	4.63	2.50	2.55	5.90	7.25	11.36
nC9	9.28	6.09	3.90	3.27	4.27	8.33	12.12
nC10	9.32	8.55	2.17	5.03	6.90	8.61	12.19
nC11	9.09	9.47	3.13	6.76	6.13	8.38	8.84
nC12	9.74	9.41	3.36	6.95	5.57	6.33	4.83
nC13	9.81	10.11	3.52	6.12	4.77	5.99	2.53
nC14	9.77	8.88	3.03	5.12	5.87	4.06	1.09
nC15	7.79	8.36	3.35	4.81	6.72	2.29	0.31
nC16	4.89	6.77	3.52	4.35	7.84	2.88	0.24
nC17	2.79	5.87	3.39	5.98	8.22	2.71	0.47
nC18	0.00	4.44	3.10	4.21	5.59	4.15	0.74
nC19	0.00	3.36	2.97	3.14	2.59	4.06	0.77
nC20	0.00	2.34	2.99	3.15	1.49	4.60	0.66
nC21	0.00	1.60	3.10	3.22	0.54	4.74	0.53
nC22	0.00	1.08	2.61	3.61	0.00	3.45	0.00
nC23	0.00	0.55	2.50	4.19	0.00	2.03	0.00
nC24	0.00	0.29	1.83	4.36	0.00	1.25	0.00
nC25	0.00	0.00	1.37	4.45	0.00	0.87	0.00
Abundance	452	610	412	555	514	486	986

JOB NO. 1602
WELL 7321/8-1

TABLE 6b
T C T D A T A
(PEAK HEIGHT NORM%)

GEOCHEM SAMPLE NO.	015A	016	017A	018A	019A	020A	021A
DEPTH	1458.00	1459.00	1460.00	1461.00	1462.00	1463.00	1464.00
nC4	7.08	4.82	7.32	14.52	1.88	3.86	9.45
nC5	37.97	2.80	2.44	22.07	27.73	4.60	26.93
nC6	6.53	20.93	9.12	10.74	15.41	3.20	9.66
nC7	8.14	17.24	7.17	9.38	0.00	2.51	8.05
nC8	6.92	13.80	6.30	9.37	0.00	1.49	7.56
nC9	6.11	10.96	5.32	7.98	0.00	1.35	6.35
nC10	6.49	10.25	8.92	3.50	0.00	2.18	5.57
nC11	5.48	8.08	10.74	3.26	0.00	1.81	3.99
nC12	4.62	4.71	8.41	3.52	0.00	1.89	3.99
nC13	3.92	2.34	5.41	4.61	1.78	2.55	6.76
nC14	2.62	1.98	2.64	3.63	2.21	4.51	4.22
nC15	1.47	1.65	2.28	2.95	2.64	7.82	3.11
nC16	0.74	0.43	3.08	1.83	4.22	11.90	0.83
nC17	0.45	0.00	3.26	1.20	5.80	14.23	0.54
nC18	0.47	0.00	4.95	1.05	6.05	11.34	0.66
nC19	0.32	0.00	3.50	0.42	5.83	9.08	0.76
nC20	0.65	0.00	2.53	0.00	5.70	6.34	0.45
nC21	0.00	0.00	2.06	0.00	5.08	4.66	0.25
nC22	0.00	0.00	1.53	0.00	4.87	3.02	0.34
nC23	0.00	0.00	1.11	0.00	4.30	1.67	0.31
nC24	0.00	0.00	1.00	0.00	3.59	0.00	0.23
nC25	0.00	0.00	0.91	0.00	2.90	0.00	0.00
Abundance	822	2510	2022	1707	1506	982	4700

JOB NO. 1602

WELL 7321/8-1

TABLE 6b
T C T D A T A
(PEAK HEIGHT NORM%)

GEOCHEM SAMPLE NO.	022A	023A	024A	025A	026A	027A	028A
DEPTH	1466.00	1467.00	1468.00	1469.00	1470.00	1471.00	1472.00
nC4	2.40	17.37	0.00	0.00	8.67	9.95	7.77
nC5	34.83	27.10	14.52	56.18	43.15	0.00	46.22
nC6	11.95	8.26	9.89	3.79	3.82	14.03	4.57
nC7	2.92	1.15	10.18	5.65	5.83	11.07	2.84
nC8	5.86	3.14	9.94	6.75	4.04	10.06	3.30
nC9	2.96	1.80	7.66	5.52	3.84	9.63	3.44
nC10	3.14	2.06	5.51	5.78	4.19	8.70	3.38
nC11	1.87	1.63	5.29	5.45	4.92	7.56	3.40
nC12	1.80	1.19	4.70	4.13	5.30	5.70	3.46
nC13	2.15	2.10	5.08	3.31	4.76	4.36	3.92
nC14	3.43	1.87	5.62	1.97	3.69	3.37	3.38
nC15	4.26	2.08	5.50	0.96	2.16	2.76	3.78
nC16	5.58	2.17	4.78	0.50	1.68	2.97	3.17
nC17	0.81	1.97	4.05	0.00	1.29	2.58	2.95
nC18	1.22	1.21	3.24	0.00	0.89	3.43	2.02
nC19	3.63	0.84	2.04	0.00	0.75	1.69	1.26
nC20	0.03	0.89	1.31	0.00	0.51	1.06	0.55
nC21	0.26	1.12	0.69	0.00	0.30	0.68	0.24
nC22	2.12	3.21	0.00	0.00	0.21	0.39	0.13
nC23	3.50	5.15	0.00	0.00	0.00	0.00	0.12
nC24	3.44	6.53	0.00	0.00	0.00	0.00	0.09
nC25	1.83	7.16	0.00	0.00	0.00	0.00	0.00
Abundance	450	171	1840	1955	2606	2804	3209

JOB NO. 1602
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TABLE 6b
T C T D A T A
(PEAK HEIGHT NORM%)

GEOCHEM SAMPLE NO.	029A	030A	031A	032A	033A	034A	035A
DEPTH	1473.00	1474.00	1475.00	1476.00	1477.00	1478.00	1479.00
nC4	14.85	3.04	0.00	0.56	7.97	4.46	3.55
nC5	13.72	13.25	0.00	2.05	7.47	4.18	7.71
nC6	5.92	7.96	2.09	1.34	5.65	1.63	10.28
nC7	3.70	11.26	0.78	0.73	1.56	2.26	9.19
nC8	3.85	4.84	1.35	0.68	2.37	1.39	7.34
nC9	4.29	4.00	0.90	1.23	3.32	1.09	5.92
nC10	4.37	2.89	2.28	1.64	4.75	0.71	5.70
nC11	3.25	2.28	2.65	2.79	5.73	0.90	4.86
nC12	3.23	2.10	5.36	4.25	7.59	1.88	6.41
nC13	3.47	2.81	7.54	6.07	9.30	1.83	7.87
nC14	3.69	4.29	9.77	9.14	11.94	2.33	9.06
nC15	4.48	4.61	11.25	11.61	12.21	4.98	7.96
nC16	4.63	5.90	9.89	13.00	10.74	7.64	5.27
nC17	4.63	6.88	7.56	13.40	7.37	9.39	3.65
nC18	4.20	6.31	6.17	8.82	2.03	9.38	2.43
nC19	4.25	5.30	6.55	4.03	0.00	8.82	1.90
nC20	3.32	3.97	5.80	3.04	0.00	7.70	0.88
nC21	3.13	2.94	5.42	3.27	0.00	7.41	0.00
nC22	2.28	2.30	5.01	3.64	0.00	6.85	0.00
nC23	2.15	1.55	4.38	3.59	0.00	5.71	0.00
nC24	1.44	0.98	3.16	2.76	0.00	4.81	0.00
nC25	1.15	0.54	2.10	2.34	0.00	4.64	0.00
Abundance	875	510	486	415	310	420	601

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WELL 7321/8-1

TABLE 6b
T C T D A T A
(PEAK HEIGHT NORM%)

GEOCHEM SAMPLE NO.	036A	037	038	039A	040A	041A	042
DEPTH	1480.00	1481.00	1482.00	1483.00	1484.00	1485.00	1486.00
nC4	20.76	14.50	20.10	0.94	10.41	10.20	31.57
nC5	13.18	4.27	5.58	9.76	3.22	27.11	21.29
nC6	13.65	5.58	8.38	10.72	3.82	7.48	9.73
nC7	8.85	3.31	5.22	7.07	3.97	4.90	9.14
nC8	0.79	2.36	4.59	7.24	4.66	3.82	7.42
nC9	3.65	3.52	3.93	6.49	4.25	5.71	6.19
nC10	3.65	4.66	3.68	6.48	5.02	6.54	5.25
nC11	3.88	5.45	3.79	6.20	5.75	6.48	4.31
nC12	3.52	7.55	3.84	5.76	6.77	5.64	2.76
nC13	4.33	6.32	3.93	7.84	11.48	4.71	1.49
nC14	5.10	4.89	4.65	9.26	2.95	3.86	0.63
nC15	4.73	8.31	4.25	8.90	12.26	3.15	0.21
nC16	3.37	6.23	4.30	5.85	7.38	2.24	0.00
nC17	2.73	4.67	4.32	3.46	3.91	1.95	0.00
nC18	2.42	3.21	5.11	1.79	2.72	1.37	0.00
nC19	2.08	3.22	3.55	0.83	3.54	1.52	0.00
nC20	1.80	2.92	3.13	0.91	3.48	1.29	0.00
nC21	1.52	3.29	2.63	0.49	1.77	0.86	0.00
nC22	0.00	1.67	1.93	0.00	1.40	0.59	0.00
nC23	0.00	1.56	1.39	0.00	0.78	0.31	0.00
nC24	0.00	1.46	1.11	0.00	0.46	0.17	0.00
nC25	0.00	1.06	0.59	0.00	0.00	0.12	0.00
Abundance	672	812	1410	1100	682	761	1706

JOB NO. 1602
WELL 7321/8-1

TABLE 6b
T C T D A T A
(PEAK HEIGHT NORM%)

GEOCHEM SAMPLE NO.	043	044A	045A	046A	047A	048A	049A
DEPTH	1487.00	1488.00	1490.00	1491.00	1492.00	1494.00	1495.00
nC4	7.47	4.88	2.58	2.57	0.00	0.00	3.44
nC5	11.77	1.75	6.82	1.16	6.56	4.30	2.28
nC6	7.98	3.76	2.01	0.44	0.12	1.76	2.39
nC7	8.47	0.82	1.56	0.09	0.39	1.05	1.24
nC8	9.40	0.74	1.11	0.10	0.00	0.00	0.77
nC9	6.90	1.09	0.90	0.13	0.12	1.01	0.87
nC10	6.68	1.93	0.68	0.28	0.30	1.26	1.10
nC11	6.16	2.50	0.43	0.14	0.68	1.45	0.94
nC12	5.35	4.88	0.66	0.26	2.04	4.20	2.33
nC13	5.46	8.73	1.00	0.57	5.76	8.95	5.17
nC14	5.44	11.77	1.45	1.34	9.98	8.56	7.55
nC15	4.90	14.19	2.59	4.19	12.22	7.95	8.67
nC16	3.60	8.95	4.60	9.07	12.19	7.72	9.19
nC17	2.84	8.71	7.54	12.52	11.86	7.58	9.34
nC18	2.67	8.17	9.20	13.12	9.55	7.38	8.29
nC19	2.21	6.43	10.59	13.81	8.28	6.98	7.99
nC20	1.12	4.25	10.53	10.74	6.12	6.58	6.96
nC21	0.75	2.56	10.81	9.17	4.56	6.49	6.26
nC22	0.51	1.79	9.05	7.66	3.62	6.46	5.22
nC23	0.31	1.02	7.37	5.85	2.55	5.50	4.45
nC24	0.00	0.59	5.41	4.08	1.76	3.07	3.19
nC25	0.00	0.51	3.13	2.71	1.34	1.72	2.35
Abundance	1766	706	983	706	852	906	1012

JOB NO. 1602
WELL 7321/8-1

TABLE 6b
T C T DATA
(PEAK HEIGHT NORM%)

GEOCHEM SAMPLE NO.	050A	051A	052A	053A	054A	055A	056A
DEPTH	1496.00	1497.00	1498.00	1499.00	1500.00	1501.00	1502.00
nC4	0.05	0.13	0.48	1.96	4.51	1.52	0.73
nC5	2.44	11.00	2.82	18.77	6.76	1.97	0.00
nC6	0.22	0.22	0.19	15.70	6.74	1.77	4.94
nC7	0.95	0.00	0.05	0.44	4.12	0.36	6.91
nC8	0.40	0.21	0.20	0.62	4.88	0.54	3.50
nC9	1.55	0.00	0.47	0.63	4.87	0.83	3.53
nC10	0.90	0.00	1.27	1.69	5.53	2.09	4.85
nC11	0.57	0.25	3.23	3.70	5.16	2.63	6.20
nC12	1.53	0.75	7.12	3.03	6.11	9.06	6.46
nC13	4.82	1.86	11.97	3.29	6.52	8.69	8.50
nC14	10.01	4.15	14.50	4.92	6.41	12.56	8.95
nC15	11.97	5.55	10.16	8.18	5.96	13.40	8.88
nC16	12.33	6.83	6.38	8.60	5.72	10.59	7.53
nC17	11.51	10.01	6.31	9.34	5.36	9.24	7.23
nC18	9.57	10.71	8.18	8.15	4.32	6.75	6.32
nC19	8.48	10.28	7.79	6.03	4.21	6.20	5.21
nC20	7.08	8.60	5.22	3.60	3.29	3.74	3.23
nC21	5.67	8.04	4.08	1.35	3.04	2.46	2.29
nC22	3.96	7.39	3.20	0.00	2.39	1.90	1.67
nC23	2.78	6.27	2.78	0.00	1.91	1.67	1.30
nC24	1.88	4.56	1.98	0.00	1.31	1.14	0.95
nC25	1.33	3.18	1.61	0.00	0.87	0.87	0.84
Abundance	752	520	593	606	1459	690	942

JOB NO. 1602
WELL 7321/8-1

TABLE 6b
T C T DATA
(PEAK HEIGHT NORM%)

GEOCHEM SAMPLE NO.	057A	058A	059A	060A	061A	062A	063A
DEPTH	1503.00	1504.00	1505.00	1506.00	1507.00	1508.00	1509.00
nC4	0.35	0.88	1.52	5.75	0.24	19.73	0.39
nC5	1.47	7.43	0.74	2.36	0.24	0.65	0.00
nC6	0.24	3.43	0.37	0.73	0.73	1.31	0.00
nC7	0.49	1.43	0.32	0.00	0.93	1.08	0.19
nC8	0.38	1.43	0.30	0.30	1.62	1.21	0.39
nC9	0.42	1.66	0.48	0.66	1.98	1.80	0.93
nC10	0.55	2.99	0.92	1.45	3.14	3.86	2.19
nC11	0.94	3.40	1.49	2.58	4.35	8.12	4.41
nC12	1.62	5.43	2.56	4.44	6.43	13.65	8.31
nC13	3.09	9.92	4.45	7.43	12.30	0.00	14.01
nC14	6.16	14.45	6.36	10.82	16.37	0.00	14.16
nC15	9.62	13.82	9.28	10.99	16.26	0.00	14.55
nC16	11.38	8.96	12.20	9.07	16.71	20.21	13.69
nC17	12.58	4.84	12.37	8.74	11.92	13.23	11.04
nC18	11.20	3.87	10.11	7.10	5.39	6.49	6.62
nC19	10.06	5.16	8.70	7.67	1.38	3.08	4.32
nC20	7.57	4.34	6.73	6.32	0.00	1.96	2.22
nC21	6.39	3.54	5.37	5.03	0.00	1.54	0.95
nC22	5.59	1.91	4.91	3.58	0.00	0.98	0.49
nC23	4.27	1.11	4.27	2.50	0.00	0.54	0.40
nC24	3.21	0.00	3.57	1.57	0.00	0.33	0.37
nC25	2.43	0.00	2.97	0.92	0.00	0.23	0.38
Abundance	355	666	503	410	592	719	777

JOB NO. 1602
WELL 7321/8-1

TABLE 6b
T C T DATA
(PEAK HEIGHT NORM%)

GEOCHEM SAMPLE NO.	064A	065A	066A	067A	068A	069A	070A
DEPTH	1510.00	1511.00	1512.00	1513.00	1514.00	1515.00	1516.00
nC4	0.00	0.57	4.23	0.27	0.43	0.93	7.47
nC5	1.06	0.38	1.46	0.61	0.22	13.06	0.00
nC6	0.10	0.13	0.97	0.13	0.22	1.64	2.34
nC7	0.20	0.43	0.36	0.00	0.24	1.46	1.41
nC8	0.31	0.12	0.70	0.31	0.24	1.53	0.80
nC9	0.52	0.20	0.74	0.36	0.62	2.77	0.60
nC10	0.96	0.41	1.61	0.55	1.00	7.26	1.06
nC11	1.85	0.92	2.57	1.39	1.69	12.90	1.15
nC12	3.59	2.31	4.22	3.90	3.37	0.00	1.67
nC13	7.50	7.12	4.69	6.73	5.22	0.00	2.93
nC14	10.17	17.27	4.55	9.27	6.76	18.90	5.08
nC15	12.43	17.00	5.47	10.64	8.56	18.13	7.15
nC16	12.04	9.20	8.14	9.11	10.87	17.91	8.98
nC17	10.14	7.74	9.67	8.06	13.37	3.49	0.00
nC18	8.75	9.67	9.99	7.82	12.24	0.00	9.34
nC19	7.79	9.07	9.65	7.92	11.94	0.00	8.72
nC20	6.09	6.27	8.10	7.16	8.84	0.00	8.14
nC21	5.09	4.30	6.65	6.74	6.09	0.00	7.63
nC22	3.82	2.99	4.95	6.24	3.80	0.00	7.73
nC23	3.21	2.02	4.43	5.60	2.31	0.00	8.02
nC24	2.44	1.23	3.65	3.89	1.31	0.00	6.21
nC25	1.92	0.66	3.20	3.29	0.64	0.00	3.56
Abundance	415	584	752	822	806	492	614

JOB NO. 1602
WELL 7321/8-1

TABLE 6b
T C T D A T A
(PEAK HEIGHT NORM%)

GEOCHEM SAMPLE NO.	071A	072A	073A	074A	075A	076A	077A
DEPTH	1517.00	1518.00	1519.00	1520.00	1521.00	1522.00	1523.00
nC4	1.62	2.16	0.99	3.68	9.58	0.25	19.45
nC5	1.06	5.98	5.40	6.34	6.24	5.11	0.67
nC6	2.12	1.24	0.77	0.53	3.62	3.23	0.67
nC7	0.26	0.89	0.47	0.25	0.58	0.25	0.28
nC8	0.46	0.86	0.55	0.23	0.48	0.44	0.50
nC9	0.50	0.84	0.56	0.54	0.81	0.03	1.00
nC10	0.65	1.25	0.81	0.34	1.54	0.95	2.52
nC11	1.00	1.66	1.09	0.71	2.85	1.34	3.37
nC12	2.08	3.48	2.14	0.81	5.26	2.70	4.54
nC13	5.47	9.90	5.48	2.38	9.00	5.95	6.35
nC14	9.49	0.00	10.37	5.47	10.39	11.28	9.00
nC15	0.00	21.60	16.02	8.96	12.37	13.56	9.56
nC16	9.61	18.07	15.61	10.19	11.01	12.71	8.44
nC17	9.63	13.44	14.64	11.79	9.53	11.58	7.87
nC18	9.44	5.95	10.32	8.26	7.10	8.41	6.57
nC19	9.30	3.80	7.47	8.52	4.97	7.67	5.59
nC20	9.35	3.12	3.99	7.42	2.17	5.31	4.46
nC21	8.46	2.52	1.93	7.90	1.03	3.56	3.55
nC22	7.12	1.57	0.91	6.48	0.71	2.38	2.45
nC23	5.71	0.89	0.48	5.48	0.45	1.53	1.60
nC24	3.99	0.49	0.00	3.72	0.27	1.03	0.97
nC25	2.68	0.29	0.00	0.00	0.00	0.74	0.55
Abundance	685	596	820	772	911	493	551

JOB NO. 1602
WELL 7321/8-1

TABLE 6b
T C T DATA
(PEAK HEIGHT NORM%)

GEOCHEM SAMPLE NO.	078A	079A	080A	081A	082A	083A	084A
DEPTH	1524.00	1525.00	1526.00	1527.00	1528.00	1529.00	1530.00
nC4	2.61	0.00	0.00	23.18	8.11	0.69	3.55
nC5	2.97	4.30	0.00	28.11	3.45	1.10	0.43
nC6	0.86	4.00	0.00	8.54	8.92	0.55	0.86
nC7	0.68	0.52	0.16	7.00	7.29	0.45	0.41
nC8	0.42	0.29	0.32	6.00	6.77	0.55	0.29
nC9	0.89	0.81	0.15	4.97	5.14	0.67	0.33
nC10	1.46	1.29	0.47	3.99	4.62	1.27	0.68
nC11	2.43	2.60	1.29	4.24	4.17	1.89	1.21
nC12	4.57	4.45	4.11	5.47	3.93	2.68	2.39
nC13	6.83	7.49	8.51	6.82	5.75	4.73	3.14
nC14	6.35	9.51	11.49	1.67	10.72	7.48	5.55
nC15	7.63	11.17	10.54	0.00	12.40	10.39	9.92
nC16	8.13	10.21	8.93	0.00	8.32	9.90	11.27
nC17	9.04	9.06	9.95	0.00	5.17	10.77	0.00
nC18	11.10	7.34	8.41	0.00	3.30	9.87	12.80
nC19	11.70	6.32	7.75	0.00	1.95	9.41	12.79
nC20	7.51	5.08	6.30	0.00	0.00	7.73	10.91
nC21	4.75	4.58	5.81	0.00	0.00	7.10	8.72
nC22	3.91	4.19	5.10	0.00	0.00	5.18	6.23
nC23	2.81	3.06	4.55	0.00	0.00	3.56	4.21
nC24	2.00	2.21	3.38	0.00	0.00	2.62	2.62
nC25	1.35	1.51	2.78	0.00	0.00	1.43	1.70
Abundance	618	415	851	4060	3720	1206	415

JOB NO. 1602

WELL 7321/8-1

TABLE 6b
T C T D A T A
(PEAK HEIGHT NORM%)

GEOCHEM SAMPLE NO.	085A	086A	087A	088A	089A	090A	091A
DEPTH	1531.00	1532.00	1533.00	1534.00	1535.00	1536.00	1537.00
nC4	1.11	3.07	6.93	0.00	3.69	0.04	0.47
nC5	3.19	6.58	0.86	1.66	1.09	2.44	1.37
nC6	3.02	0.66	1.23	0.00	1.15	0.99	1.17
nC7	0.33	0.37	1.94	0.59	0.88	0.00	1.63
nC8	0.49	0.24	0.77	0.24	0.98	0.00	1.67
nC9	0.47	0.11	0.39	14.69	0.73	0.00	1.31
nC10	1.82	0.21	0.42	14.64	1.00	0.00	2.09
nC11	0.86	0.26	0.42	14.27	0.58	0.54	3.24
nC12	1.74	0.00	0.69	13.19	0.73	2.15	5.66
nC13	7.79	0.42	1.00	11.38	1.39	3.87	9.96
nC14	15.59	0.83	1.61	9.18	3.29	6.86	12.88
nC15	19.66	1.55	3.02	7.33	4.67	9.08	14.22
nC16	17.02	4.41	4.92	5.53	4.54	7.69	13.61
nC17	10.98	11.77	7.67	3.52	7.26	6.65	11.05
nC18	7.57	14.76	9.36	2.46	13.53	10.58	8.22
nC19	4.16	13.93	11.21	1.33	15.68	15.92	5.36
nC20	1.85	10.55	10.20	0.00	12.85	9.76	2.52
nC21	0.99	8.62	11.06	0.00	9.61	7.18	1.16
nC22	0.71	7.40	8.95	0.00	6.59	5.79	0.60
nC23	0.38	6.43	7.45	0.00	4.62	4.61	0.52
nC24	0.26	4.53	5.90	0.00	3.04	3.42	0.61
nC25	0.00	3.31	4.01	0.00	2.09	2.44	0.69
Abundance	985	515	520	750	780	715	725

JOB NO. 1602
WELL 7321/8-1

TABLE 6b
T C T DATA
(PEAK HEIGHT NORM%)

GEOCHEM SAMPLE NO.	092A	093A	094A	095A	096A	097A	098A
DEPTH	1538.00	1539.00	1540.00	1541.00	1542.00	1543.00	1544.00
nC4	0.00	0.87	1.68	0.23	2.42	0.22	9.65
nC5	3.82	7.91	2.07	0.18	26.08	0.43	0.00
nC6	2.72	5.14	0.85	0.37	7.93	0.18	4.61
nC7	1.07	5.23	1.30	0.22	5.33	0.12	7.48
nC8	0.00	2.93	0.38	0.13	5.76	0.10	3.74
nC9	0.00	2.99	0.15	0.05	3.99	0.06	2.94
nC10	0.00	3.56	0.15	0.17	3.10	0.08	2.56
nC11	0.00	4.33	0.49	0.00	1.33	0.07	2.79
nC12	0.34	5.60	0.52	0.07	1.34	0.11	3.22
nC13	0.37	9.55	0.68	0.17	1.75	0.24	2.31
nC14	0.50	8.44	1.05	0.56	1.91	0.42	8.89
nC15	0.57	7.94	1.86	1.30	4.48	0.85	9.90
nC16	1.24	6.39	4.81	2.78	6.11	4.69	9.53
nC17	6.23	5.66	11.15	0.23	5.63	10.97	9.22
nC18	13.64	4.65	12.44	17.10	3.67	13.01	7.66
nC19	17.45	4.52	12.02	19.27	2.95	13.59	6.06
nC20	14.13	3.77	10.63	16.10	2.99	12.78	3.95
nC21	12.64	3.26	9.46	13.44	3.91	11.35	2.77
nC22	9.91	2.69	9.02	10.72	3.89	9.98	1.57
nC23	7.36	2.09	8.10	7.92	2.83	8.80	0.80
nC24	4.95	1.47	6.19	5.39	1.62	6.74	0.35
nC25	3.08	1.01	5.01	3.62	0.97	5.21	0.00
Abundance	718	1610	772	991	1055	820	1640

JOB NO. 1602
WELL 7321/8-1

TABLE 6b
T C T D A T A
(PEAK HEIGHT NORM%)

GEOCHEM SAMPLE NO.	099	100A	101A	102A	104	105	106
DEPTH	1545.0	1545.5	1546.0	1546.8	1548.0	1548.5	1551.0
nC4	2.01	0.36	0.94	2.41	2.02	0.36	1.65
nC5	4.63	10.69	2.18	2.35	1.07	0.92	4.14
nC6	1.14	1.66	0.86	1.23	0.61	0.22	1.17
nC7	1.59	2.54	1.34	1.12	0.62	0.16	1.87
nC8	1.80	1.98	1.29	1.38	1.02	0.39	2.86
nC9	2.26	2.30	2.59	1.73	0.77	0.29	2.99
nC10	3.02	2.71	4.07	2.28	0.30	0.52	3.93
nC11	3.95	3.64	7.24	2.81	1.17	0.27	4.52
nC12	5.49	6.92	10.26	4.46	2.86	4.12	5.96
nC13	7.86	15.18	13.61	7.61	5.36	6.79	8.39
nC14	11.07	0.00	16.82	10.60	6.44	8.80	10.22
nC15	11.85	0.00	14.46	13.00	7.29	11.49	10.28
nC16	11.39	0.00	9.67	11.15	7.91	5.33	8.77
nC17	12.35	0.00	5.37	10.90	9.95	4.41	7.11
nC18	11.00	0.00	0.81	8.51	10.69	8.08	6.24
nC19	5.09	17.85	0.45	6.75	10.62	14.01	5.89
nC20	2.22	11.92	0.70	4.02	9.11	13.03	4.52
nC21	1.28	8.81	1.16	2.86	7.39	7.94	3.43
nC22	0.00	6.01	1.64	1.86	6.00	5.44	2.55
nC23	0.00	3.70	1.76	1.35	4.29	3.22	1.73
nC24	0.00	2.37	1.52	0.96	2.75	2.28	1.08
nC25	0.00	1.38	1.26	0.65	1.77	1.91	0.71
Abundance	1820	925	610	871	1720	1310	3850

JOB NO. 1602

WELL 7321/8-1

TABLE 6b
T C T D A T A
(PEAK HEIGHT NORM%)

GEOCHEM SAMPLE NO.	107A	108A	109	110	111	112	113
DEPTH	1551.5	1552.0	1555.0	1557.0	1557.5	1558.0	1559.0
nC4	0.30	1.25	4.52	11.28	1.47	15.03	0.36
nC5	0.44	1.72	6.90	16.76	3.78	16.72	2.51
nC6	0.38	0.42	2.92	11.57	2.96	11.85	5.76
nC7	0.18	0.67	4.91	9.24	4.99	9.20	7.78
nC8	0.00	0.89	5.19	6.82	6.41	8.70	6.58
nC9	1.22	0.79	7.25	5.60	6.19	7.10	6.45
nC10	3.39	1.67	7.50	6.38	8.49	6.47	8.59
nC11	5.95	3.77	7.94	5.42	8.22	4.45	9.35
nC12	10.83	8.33	9.51	6.63	7.60	4.60	9.91
nC13	15.28	14.09	12.53	5.93	7.71	3.70	9.48
nC14	18.25	12.70	12.75	5.83	7.47	3.26	8.41
nC15	19.47	16.38	4.66	4.79	6.99	2.56	7.49
nC16	13.72	17.81	4.01	2.79	6.63	2.04	5.40
nC17	4.81	7.21	3.19	0.62	6.09	1.21	4.05
nC18	1.25	2.25	2.78	0.11	3.86	0.74	2.74
nC19	0.48	1.33	1.78	0.07	3.40	0.38	2.04
nC20	0.28	1.04	1.00	0.09	2.70	0.37	1.29
nC21	0.30	1.12	0.35	0.03	2.02	0.30	0.73
nC22	0.44	1.26	0.31	0.05	1.31	0.30	0.47
nC23	0.68	1.54	0.00	0.00	0.75	0.23	0.33
nC24	1.01	1.74	0.00	0.00	0.54	0.17	0.28
nC25	1.37	2.01	0.00	0.00	0.41	0.61	0.00
Abundance	2856	2161	399	552	995	852	1410

JOB NO. 1602

WELL 7321/8-1

TABLE 6b
T C T DATA
(PEAK HEIGHT NORM%)

GEOCHEM SAMPLE NO.	107A	108A	109	110	111	112	113
DEPTH	1551.5	1552.0	1555.0	1557.0	1557.5	1558.0	1559.0
nC4	0.30	1.25	4.52	11.28	1.47	15.03	0.36
nC5	0.44	1.72	6.90	16.76	3.78	16.72	2.51
nC6	0.38	0.42	2.92	11.57	2.96	11.85	5.76
nC7	0.18	0.67	4.91	9.24	4.99	9.20	7.78
nC8	0.00	0.89	5.19	6.82	6.41	8.70	6.58
nC9	1.22	0.79	7.25	5.60	6.19	7.10	6.45
nC10	3.39	1.67	7.50	6.38	8.49	6.47	8.59
nC11	5.95	3.77	7.94	5.42	8.22	4.45	9.35
nC12	10.83	8.33	9.51	6.63	7.60	4.60	9.91
nC13	15.28	14.09	12.53	5.93	7.71	3.70	9.48
nC14	18.25	12.70	12.75	5.83	7.47	3.26	8.41
nC15	19.47	16.38	4.66	4.79	6.99	2.56	7.49
nC16	13.72	17.81	4.01	2.79	6.63	2.04	5.40
nC17	4.81	7.21	3.19	0.62	6.09	1.21	4.05
nC18	1.25	2.25	2.78	0.11	3.86	0.74	2.74
nC19	0.48	1.33	1.78	0.07	3.40	0.38	2.04
nC20	0.28	1.04	1.00	0.09	2.70	0.37	1.29
nC21	0.30	1.12	0.35	0.03	2.02	0.30	0.73
nC22	0.44	1.26	0.31	0.05	1.31	0.30	0.47
nC23	0.68	1.54	0.00	0.00	0.75	0.23	0.33
nC24	1.01	1.74	0.00	0.00	0.54	0.17	0.28
nC25	1.37	2.01	0.00	0.00	0.41	0.61	0.00
Abundance	2856	2161	399	552	995	852	1410

JOB NO. 1602
WELL 7321/8-1

TABLE 6b
T C T D A T A
(PEAK HEIGHT NORM%)

GEOCHEM SAMPLE NO.	114A	115	116	117	118	119	120
DEPTH	1560.0	1561.0	1562.0	1562.5	1563.0	1564.0	1564.5
nC4	1.00	13.17	0.51	0.50	0.57	4.46	0.45
nC5	5.16	31.63	4.40	15.68	1.84	2.28	7.35
nC6	4.60	3.86	2.99	11.31	0.00	7.63	7.10
nC7	2.93	3.52	5.77	10.46	7.25	9.20	7.85
nC8	3.49	4.15	7.07	10.59	6.35	8.15	5.35
nC9	4.61	3.74	7.97	8.49	6.86	8.48	5.61
nC10	6.39	3.07	8.72	8.27	7.69	6.83	5.79
nC11	6.22	3.16	7.98	7.30	8.47	7.74	6.47
nC12	5.60	3.37	7.28	7.98	8.74	6.91	8.19
nC13	5.56	3.58	6.85	7.48	8.76	6.79	7.99
nC14	5.67	3.83	6.02	5.52	8.11	6.86	8.31
nC15	5.79	3.89	5.34	2.72	7.16	6.51	7.46
nC16	5.00	3.37	4.85	1.55	6.95	6.11	9.21
nC17	5.18	2.55	5.02	2.02	6.11	5.24	7.04
nC18	6.27	2.06	4.95	0.15	5.01	2.49	3.54
nC19	6.74	2.46	4.56	0.00	3.87	1.04	1.55
nC20	6.03	2.05	3.49	0.00	2.42	0.45	0.56
nC21	4.80	2.05	2.39	0.00	1.62	0.28	0.18
nC22	3.71	1.61	1.59	0.00	1.05	0.39	0.00
nC23	2.64	1.27	1.07	0.00	0.65	0.57	0.00
nC24	1.68	0.95	0.66	0.00	0.37	0.82	0.00
nC25	0.91	0.66	0.51	0.00	0.16	0.79	0.00
Abundance	2162	1102	1210	992	1356	1029	608

JOB NO. 1602
WELL 7321/8-1

TABLE 6b
T C T D A T A
(PEAK HEIGHT NORM%)

GEOCHEM SAMPLE NO.	121	122	123	124	125A	126	127A
DEPTH	1565.0	1565.5	1566.0	1566.5	1567.00	1567.5	1570.0
nC4	1.16	1.60	13.44	1.03	0.42	0.55	3.27
nC5	1.99	12.77	12.31	1.46	6.99	4.48	6.70
nC6	3.27	9.24	5.46	11.09	1.35	5.28	4.71
nC7	5.55	7.06	6.87	9.09	3.78	0.48	8.84
nC8	5.94	6.54	7.24	9.44	3.49	8.66	10.21
nC9	6.18	4.83	6.93	7.43	4.18	8.11	8.60
nC10	7.49	3.92	6.84	7.47	5.78	10.62	9.62
nC11	7.38	3.86	5.70	6.65	8.37	9.83	9.63
nC12	7.58	4.27	4.44	6.68	9.82	9.29	8.17
nC13	7.74	6.22	4.05	7.69	11.99	7.62	7.08
nC14	8.39	8.72	2.96	7.29	8.68	5.23	6.22
nC15	8.50	8.56	2.80	5.93	7.59	4.22	4.92
nC16	7.43	6.93	3.12	4.69	6.38	3.83	3.77
nC17	6.13	5.46	3.71	4.18	5.41	5.16	2.87
nC18	5.59	3.78	3.28	3.04	4.43	7.52	2.20
nC19	4.05	3.09	2.97	2.38	3.80	2.70	1.47
nC20	2.06	1.86	2.29	1.63	2.28	0.82	0.82
nC21	1.23	0.79	1.87	1.15	1.80	0.66	0.54
nC22	0.79	0.31	1.43	0.68	1.27	0.85	0.37
nC23	0.88	0.19	1.01	0.47	0.95	1.08	0.00
nC24	0.43	0.00	0.69	0.31	0.74	1.40	0.00
nC25	0.26	0.00	0.60	0.22	0.51	1.59	0.00
Abundance	615	862	1510	718	1120	1086	832

JOB NO. 1602
WELL 7321/8-1

TABLE 6b
T C T DATA
(PEAK HEIGHT NORM%)

GEOCHEM SAMPLE NO.	128	129	156A	157A	160A	164A
DEPTH	1573.0	1628.0	1915.3	2213.7	2625.0	2668.0
nC4	6.99	4.44	59.03	2.18	8.73	10.05
nC5	20.08	30.15	13.71	19.48	29.38	52.89
nC6	10.26	21.17	12.77	35.74	25.45	10.79
nC7	9.98	3.41	7.59	8.98	3.58	5.79
nC8	11.50	1.28	6.90	3.36	0.79	3.04
nC9	10.98	1.30	0.00	1.15	0.30	3.42
nC10	9.90	2.67	0.00	0.84	2.28	1.76
nC11	7.84	2.77	0.00	0.95	0.98	1.13
nC12	4.57	1.25	0.00	1.13	1.12	4.21
nC13	2.10	0.00	0.00	0.62	0.90	5.81
nC14	0.56	0.79	0.00	0.80	1.30	1.10
nC15	0.44	0.00	0.00	0.85	2.68	0.00
nC16	0.63	1.07	0.00	1.08	2.06	0.00
nC17	0.83	1.95	0.00	2.85	2.91	0.00
nC18	0.79	3.15	0.00	4.49	2.92	0.00
nC19	0.75	4.05	0.00	5.17	2.67	0.00
nC20	0.65	4.02	0.00	3.98	2.48	0.00
nC21	0.55	4.13	0.00	2.42	1.76	0.00
nC22	0.35	3.70	0.00	1.57	2.21	0.00
nC23	0.25	3.20	0.00	0.94	2.28	0.00
nC24	0.00	2.92	0.00	0.64	1.87	0.00
nC25	0.00	2.61	0.00	0.76	1.35	0.00
Abundance	980	165	86	206	110	121

JOB NO. 1602
WELL 7321/8-1



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

JOB	LITHO	DEPTH	TOTAL EXTRACT	HYDROCARBONS			NON HYDROCARBONS			
				Saturates	Aromatics	TOTAL	Precipitd. Asphaltenes	Eluted NSO's	Non-eluted NSO's	TOTAL
1602-139		900	1267	914	86	999	144	122	2	268
1602-140A		910	3589	2828	243	3071	218	296	4	518
1602-141A		920	4162	3327	275	3603	224	327	8	559
1602-142A		950	1431	827	110	936	322	170	3	495
1602-143A		980	2777	1728	222	1950	507	315	5	827
1602-144		1173.4	206	54	33	87	60	58	1	119
1602-145		1322.0	2205	916	226	1142	774	284	5	1063
1602-146A		1365	2261	541	222	763	1143	353	2	1498
1602-147A		1377.0	2016	712	152	864	670	476	5	1152
1602-148		1380	1030	331	179	510	253	266	2	520
1602-149		1390	1982	1250	244	1494	231	252	5	488
1602-150A		1400	2250	1420	399	1819	174	256	2	431
1602-151A		1410	3618	2265	554	2819	358	430	11	799
1602-152A		1415	4081	2539	687	3226	368	471	15	854
1602-153A		1420	4525	2558	856	3414	619	488	4	1111
1602-154A		1425	3622	2077	809	2885	336	394	6	736
1602-155A		1430	3199	1920	564	2484	320	388	7	715
1602-001A		1444.00	224	96	21	117	82	24	1	107
1602-002A		1445.00	232	114	26	140	74	16	2	92
1602-003A		1446.00	319	165	32	197	104	16	2	122
1602-004A		1447.00	275	165	33	197	58	19	1	78
1602-005A		1448.00	261	153	29	182	64	13	2	79
1602-006A		1449.00	183	101	18	119	52	11	1	65
1602-007A		1450.00	277	164	30	194	68	13	2	83
1602-008A		1451.00	245	140	21	161	71	12	1	84
1602-009A		1452.00	396	235	42	277	93	23	2	118
1602-010A		1453.00	86	29	9	38	39	7	1	47
1602-011A		1454.00	300	167	31	198	80	21	2	103
1602-012A		1455.00	110	38	12	51	49	9	1	59
1602-013A		1456.00	329	160	39	199	88	41	0	130
1602-014A		1457.00	224	104	22	126	67	30	1	97
1602-015A		1458.00	229	106	26	132	82	14	1	97
1602-016		1459.00	420	229	63	292	100	26	2	128
1602-017A		1460.00	279	132	34	166	85	28	0	113
1602-018A		1461.00	337	184	37	220	93	23	1	117
1602-019A		1462.00	203	104	25	129	60	13	1	74
1602-020A		1463.00	107	53	7	60	38	8	1	47
1602-021A		1464.00	713	457	93	550	82	79	3	163
1602-022A		1466.00	127	68	7	75	35	14	2	52
1602-023A		1467.00	113	48	8	56	46	10	1	57
1602-024A		1468.00	949	302	163	465	221	260	3	484
1602-025A		1469.00	1030	578	209	787	148	92	3	243
1602-026A		1470.00	938	492	160	652	221	62	2	285
1602-027A		1471.00	1056	549	180	729	271	52	4	327
1602-028A		1472.00	594	336	78	414	135	42	4	180

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

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



JOB	LITHO	DEPTH	TOTAL EXTRACT	HYDROCARBONS			NON HYDROCARBONS			
				Saturates	Aromatics	TOTAL	Precipitd. Asphaltenes	Eluted NSO's	Non-eluted NSO's	TOTAL
1602-029A		1473.00	253	169	23	193	42	17	2	60
1602-030A		1474.00	298	200	31	231	51	14	2	67
1602-031A		1475.00	179	115	14	129	36	12	1	49
1602-032A		1476.00	148	100	13	113	25	9	1	35
1602-033A		1477.00	329	213	26	239	48	41	2	90
1602-034A		1478.00	296	155	20	176	52	67	1	120
1602-035A		1479.00	676	481	67	548	88	35	4	128
1602-036A		1480.00	597	266	131	398	140	57	3	200
1602-037		1481.00	440	214	84	298	106	34	2	141
1602-181		1481.00	726	288	116	404	153	168	1	322
1602-038		1482.00	497	260	56	316	155	25	1	181
1602-039A		1483.00	690	410	65	475	124	87	4	215
1602-040A		1484.00	480	328	45	373	75	31	2	107
1602-041A		1485.00	517	177	98	274	192	47	3	242
1602-042		1486.00	698	229	152	380	131	182	5	318
1602-043		1487.00	438	227	53	280	129	28	1	158
1602-044A		1488.00	462	355	38	393	41	27	0	68
1602-045A		1490.00	756	585	62	647	64	41	4	108
1602-046A		1491.00	1003	793	118	911	40	49	4	92
1602-047A		1492.00	663	526	57	583	42	30	9	81
1602-048A		1494.00	1035	790	105	895	89	48	2	140
1602-049A		1495.00	1016	807	81	888	72	53	4	128
1602-050A		1496.00	491	373	38	411	51	27	2	80
1602-051A		1497.00	761	573	61	635	67	57	2	126
1602-052A		1498.00	734	590	52	643	51	38	3	91
1602-053A		1499.00	597	457	46	503	60	33	1	94
1602-054A		1500.00	2153	1131	239	1370	652	123	8	783
1602-055A		1501.00	751	529	61	591	109	47	3	160
1602-056A		1502.00	951	521	174	695	181	71	4	256
1602-057A		1503.00	350	273	27	300	29	20	2	51
1602-058A		1504.00	711	515	81	596	78	35	2	115
1602-059A		1505.00	581	425	59	484	61	35	2	97
1602-060A		1506.00	593	475	44	520	40	31	2	73
1602-061A		1507.00	639	497	60	557	50	30	3	82
1602-062A		1508.00	870	723	65	788	40	40	2	82
1602-063A		1509.00	839	683	70	754	39	45	2	86
1602-064A		1510.00	224	133	14	147	66	10	1	77
1602-065A		1511.00	528	419	42	462	32	32	2	66
1602-066A		1512.00	835	663	81	744	50	38	3	91
1602-067A		1513.00	889	720	71	791	46	49	3	98
1602-068A		1514.00	882	708	67	775	53	51	3	108
1602-069A		1515.00	565	457	43	500	38	26	1	65
1602-070A		1516.00	873	715	69	785	37	51	1	89
1602-071A		1517.00	929	692	95	787	77	61	3	142
1602-072A		1518.00	632	507	49	556	39	34	3	76

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



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

JOB	LITHO	DEPTH	TOTAL EXTRACT	HYDROCARBONS			NON HYDROCARBONS			
				Saturates	Aromatics	TOTAL	Precipitd. Asphaltenes	Eluted NSO's	Non-eluted NSO's	TOTAL
1602-073A		1519.00	920	703	87	790	82	46	2	130
1602-074A		1520.00	785	623	76	700	48	34	4	86
1602-075A		1521.00	1021	708	137	845	123	51	2	176
1602-076A		1522.00	561	455	43	498	34	27	2	63
1602-077A		1523.00	546	434	39	473	39	31	2	73
1602-078A		1524.00	619	502	49	551	34	32	2	67
1602-079A		1525.00	401	304	26	330	48	21	1	71
1602-080A		1526.00	857	694	62	756	52	46	3	100
1602-081A		1527.00	1257	1011	92	1103	87	63	4	154
1602-082A		1528.00	1294	969	98	1066	146	74	7	227
1602-083A		1529.00	900	688	67	754	94	48	3	145
1602-084A		1530.00	490	363	32	395	59	32	4	96
1602-085A		1531.00	755	593	52	645	64	43	3	111
1602-086A		1532.00	571	445	39	485	56	28	2	86
1602-087A		1533.00	672	550	48	598	40	32	2	74
1602-088A		1534.00	815	626	64	690	75	44	6	125
1602-089A		1535.00	671	497	50	547	76	45	3	124
1602-090A		1536.00	1001	788	75	863	83	51	4	138
1602-091A		1537.00	960	778	72	850	58	50	2	109
1602-092A		1538.00	797	659	61	719	34	41	3	78
1602-093A		1539.00	1277	926	115	1042	158	75	3	236
1602-094A		1540.00	745	584	66	649	56	32	8	96
1602-095A		1541.00	1092	894	81	974	55	61	2	118
1602-096A		1542.00	758	417	73	490	229	38	2	269
1602-097A		1543.00	1130	855	89	944	110	71	4	186
1602-098A		1544.00	1107	824	107	931	101	70	5	176
1602-099		1545.0	906	642	85	727	83	95	1	179
1602-100A		1545.5	482	189	23	212	191	77	2	270
1602-101A		1546.0	113	34	6	39	56	17	1	74
1602-102A		1546.8	796	572	58	630	98	67	1	167
1602-103A		1547.5	107	45	5	50	48	7	1	56
1602-104		1548.0	1171	819	91	910	183	75	3	261
1602-105		1548.5	390	250	25	275	85	29	2	115
1602-106		1551.0	2970	2447	185	2632	170	157	11	338
1602-107A		1551.5	3197	2655	197	2851	176	166	3	345
1602-108A		1552.0	2015	1661	120	1781	143	88	4	235
1602-109		1555.0	265	121	21	142	74	48	1	123
1602-110		1557.0	209	64	9	73	89	46	1	137
1602-111		1557.5	240	82	13	95	106	38	1	145
1602-112		1558.0	723	277	80	357	214	150	2	366
1602-113		1559.0	654	327	71	398	123	129	3	256
1602-114A		1560.0	1010	422	78	500	221	284	5	510
1602-115		1561.0	553	244	77	321	117	112	3	232
1602-116		1562.0	142	31	8	39	60	42	1	103
1602-117		1562.5	437	177	100	277	76	82	1	160

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

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

JOB	LITHO	DEPTH	TOTAL EXTRACT	HYDROCARBONS			NON HYDROCARBONS			
				Saturates	Aromatics	TOTAL	Preciptd. Asphaltenes	Eluted NSO's	Non-eluted NSO's	TOTAL
1602-118		1563.0	586	215	92	307	205	73	1	279
1602-119		1564.0	341	98	56	154	76	109	2	187
1602-120		1564.5	743	338	114	452	125	164	3	291
1602-121		1565.0	378	76	27	103	101	171	2	274
1602-122		1565.5	712	285	132	416	132	162	2	296
1602-123		1566.0	1061	352	180	533	226	299	4	529
1602-124		1566.5	686	202	115	316	217	151	3	370
1602-125A		1567.0	563	214	132	346	133	82	1	217
1602-126		1567.5	356	118	57	175	118	61	1	181
1602-127A		1570.0	544	69	27	95	98	347	3	448
1602-128		1573.0	737	242	142	384	194	156	3	352
1602-129A		1628.0	507	159	35	195	188	122	2	312
1602-130A		1830.8	267	113	57	170	65	31	1	97
1602-131A		1850.9	148	59	16	75	62	11	1	73
1602-156A		1915.3	651	186	66	252	192	205	1	399
1602-132A		1942.3	1646	309	419	728	723	194	2	919
1602-133A		2117.4	808	291	147	438	145	222	2	370
1602-134A		2141.2	314	130	64	194	33	86	1	120
1602-135A		2158.2	320	204	35	239	39	41	1	81
1602-136A		2184.6	404	297	27	324	58	21	1	80
1602-157A		2213.7	456	114	85	199	155	100	2	257
1602-137A		2229.1	801	241	188	429	227	143	2	372
1602-158		2230	183	35	31	66	33	83	1	117
1602-138A		2276.8	367	122	34	156	76	133	2	211
1602-159A		2582.5	155	53	40	93	37	24	1	62
1602-160A		2625.0	124	57	8	65	44	15	1	60
1602-161A		2634.0	876	415	62	477	237	158	4	398
1602-162A		2650.0	600	228	102	330	129	138	2	269
1602-163A		2662.0	238	69	26	94	50	92	1	143
1602-164A		2668.0	337	147	29	176	66	93	1	161
1602-165A		2681.5	298	111	42	153	39	105	1	145
1602-166A		2685.0	652	219	92	311	123	216	2	341
1602-167A		2690.0	303	105	41	146	63	93	1	157
1602-168A		2719.0	270	102	38	141	58	71	1	130
1602-169		2759.0	210	77	35	112	46	52	1	98
1602-170A		2778.0	264	113	39	152	46	66	1	113
1602-171A		2813.0	318	129	43	172	52	93	1	146
1602-172A		2830.0	373	139	105	244	28	99	1	129
1602-173A		2910.0	521	243	91	334	62	123	1	187
1602-174A		3063.0	298	138	31	168	76	51	2	130
1602-175A		3100.0	308	149	37	186	50	71	1	122
1602-176A		3269.0	292	158	19	178	69	45	1	115
1602-177A		3302.0	281	119	42	161	75	42	3	119
1602-178A		3366.0	503	259	37	295	99	107	1	208
1602-179A		3373.5	532	198	125	323	120	88	1	209
1602-180A		3396.0	493	275	56	331	52	110	1	163



TABLE 8
COMPOSITION (NORMALISED %) OF C₁₅₊ MATERIAL

JOB	LITHO	DEPTH	HYDROCARBONS		NON HYDROCARBONS		
GEOCHEM SAMPLE NUMBER			Saturates	Aromatics	Precipitd. Asphaltenes	Eluted NSO's	Non eluted NSO's
1602-139		900	72.08	6.76	11.37	9.67	0.13
1602-140A		910	78.78	6.78	6.09	8.26	0.10
1602-141A		920	79.94	6.62	5.38	7.86	0.20
1602-142A		950	57.75	7.67	22.47	11.88	0.23
1602-143A		980	62.22	8.00	18.24	11.36	0.17
1602-144		1173.4	26.33	15.95	29.11	28.35	0.25
1602-145		1322.0	41.53	10.26	35.08	12.89	0.24
1602-146A		1365	23.94	9.80	50.56	15.61	0.09
1602-147A		1377.0	35.32	7.53	33.25	23.64	0.26
1602-148		1380	32.11	17.38	24.59	25.77	0.15
1602-149		1390	63.09	12.29	11.64	12.74	0.25
1602-150A		1400	63.11	17.72	7.71	11.36	0.09
1602-151A		1410	62.60	15.32	9.91	11.88	0.29
1602-152A		1415	62.23	16.83	9.01	11.55	0.37
1602-153A		1420	56.54	18.91	13.68	10.78	0.10
1602-154A		1425	57.34	22.33	9.27	10.89	0.18
1602-155A		1430	60.03	17.63	9.99	12.14	0.21
1602-001A		1444.00	42.80	9.39	36.53	10.65	0.63
1602-002A		1445.00	49.04	11.25	32.06	6.79	0.85
1602-003A		1446.00	51.73	9.95	32.58	5.13	0.60
1602-004A		1447.00	59.79	11.89	20.98	6.82	0.52
1602-005A		1448.00	58.58	11.19	24.44	5.04	0.75
1602-006A		1449.00	54.91	9.81	28.65	5.84	0.80
1602-007A		1450.00	59.38	10.67	24.44	4.82	0.69
1602-008A		1451.00	56.91	8.74	29.07	4.88	0.41
1602-009A		1452.00	59.44	10.66	23.52	5.79	0.58
1602-010A		1453.00	33.91	10.92	45.40	8.62	1.15
1602-011A		1454.00	55.41	10.34	26.66	6.95	0.65
1602-012A		1455.00	34.68	11.26	44.59	8.11	1.35
1602-013A		1456.00	48.75	11.86	26.81	12.46	0.12
1602-014A		1457.00	46.73	9.81	29.81	13.27	0.38
1602-015A		1458.00	46.11	11.48	35.80	6.03	0.58
1602-016		1459.00	54.60	14.93	23.89	6.09	0.48
1602-017A		1460.00	47.18	12.29	30.40	9.97	0.17
1602-018A		1461.00	54.42	10.83	27.49	6.84	0.43
1602-019A		1462.00	51.21	12.32	29.71	6.28	0.48
1602-020A		1463.00	49.32	6.39	35.62	7.31	1.37
1602-021A		1464.00	64.10	13.04	11.43	11.05	0.39
1602-022A		1466.00	53.52	5.86	27.73	11.33	1.56
1602-023A		1467.00	42.57	7.14	40.86	8.57	0.86
1602-024A		1468.00	31.81	17.17	23.27	27.43	0.31
1602-025A		1469.00	56.15	20.26	14.38	8.94	0.27
1602-026A		1470.00	52.47	17.09	23.55	6.63	0.26
1602-027A		1471.00	51.99	17.07	25.70	4.89	0.35
1602-028A		1472.00	56.62	13.05	22.74	6.99	0.59

TABLE 8
COMPOSITION (NORMALISED %) OF C₁₅₊ MATERIAL

JOB	LITHO	DEPTH	HYDROCARBONS		NON HYDROCARBONS		
			Saturates	Aromatics	Preciptd. Asphaltenes	Eluted NSO's	Non eluted NSO's
1602-029A		1473.00	66.92	9.28	16.47	6.74	0.60
1602-030A		1474.00	67.01	10.53	17.13	4.70	0.63
1602-031A		1475.00	64.45	8.06	20.32	6.48	0.70
1602-032A		1476.00	67.74	8.82	16.63	6.21	0.60
1602-033A		1477.00	64.73	7.84	14.56	12.32	0.56
1602-034A		1478.00	52.50	6.87	17.50	22.75	0.37
1602-035A		1479.00	71.19	9.94	13.02	5.22	0.63
1602-036A		1480.00	44.60	21.97	23.44	9.55	0.44
1602-037		1481.00	48.71	19.12	24.00	7.77	0.40
1602-181		1481.00	39.70	15.97	21.08	23.16	0.09
1602-038		1482.00	52.23	11.27	31.16	5.12	0.22
1602-039A		1483.00	59.40	9.40	17.98	12.62	0.60
1602-040A		1484.00	68.38	9.28	15.55	6.44	0.34
1602-041A		1485.00	34.20	18.93	37.20	9.17	0.50
1602-042		1486.00	32.75	21.72	18.80	26.07	0.66
1602-043		1487.00	51.88	12.13	29.37	6.38	0.24
1602-044A		1488.00	76.88	8.34	8.92	5.78	0.08
1602-045A		1490.00	77.45	8.21	8.40	5.36	0.58
1602-046A		1491.00	79.02	11.78	3.94	4.88	0.38
1602-047A		1492.00	79.23	8.59	6.31	4.57	1.31
1602-048A		1494.00	76.37	10.13	8.65	4.65	0.21
1602-049A		1495.00	79.42	7.96	7.07	5.17	0.37
1602-050A		1496.00	75.87	7.79	10.47	5.45	0.43
1602-051A		1497.00	75.33	8.05	8.81	7.55	0.25
1602-052A		1498.00	80.41	7.15	6.89	5.19	0.36
1602-053A		1499.00	76.58	7.73	9.99	5.46	0.25
1602-054A		1500.00	52.52	11.11	30.30	5.71	0.36
1602-055A		1501.00	70.54	8.16	14.57	6.30	0.43
1602-056A		1502.00	54.77	18.31	19.01	7.50	0.41
1602-057A		1503.00	77.77	7.70	8.35	5.64	0.54
1602-058A		1504.00	72.45	11.39	10.94	4.93	0.28
1602-059A		1505.00	73.08	10.15	10.55	5.95	0.27
1602-060A		1506.00	80.18	7.51	6.70	5.29	0.32
1602-061A		1507.00	77.74	9.41	7.78	4.64	0.42
1602-062A		1508.00	83.11	7.43	4.57	4.65	0.24
1602-063A		1509.00	81.40	8.39	4.63	5.39	0.19
1602-064A		1510.00	59.47	6.10	29.42	4.54	0.47
1602-065A		1511.00	79.47	8.04	6.14	5.99	0.37
1602-066A		1512.00	79.33	9.74	6.00	4.57	0.37
1602-067A		1513.00	80.95	8.03	5.14	5.51	0.37
1602-068A		1514.00	80.21	7.57	6.06	5.82	0.34
1602-069A		1515.00	80.95	7.53	6.65	4.68	0.19
1602-070A		1516.00	81.90	7.93	4.20	5.85	0.12
1602-071A		1517.00	74.51	10.25	8.34	6.56	0.35
1602-072A		1518.00	80.26	7.74	6.23	5.31	0.46

TABLE 8
COMPOSITION (NORMALISED %) OF C₁₅₊ MATERIAL

JOB	LITHO	DEPTH	HYDROCARBONS		NON HYDROCARBONS		
			Saturates	Aromatics	Precipd. Asphaltenes	Eluted NSO's	Non eluted NSO's
1602-073A		1519.00	76.46	9.45	8.96	4.95	0.18
1602-074A		1520.00	79.38	9.73	6.12	4.32	0.45
1602-075A		1521.00	69.30	13.44	12.01	5.02	0.23
1602-076A		1522.00	81.00	7.71	6.08	4.76	0.44
1602-077A		1523.00	79.43	7.20	7.20	5.73	0.44
1602-078A		1524.00	81.19	7.94	5.44	5.19	0.24
1602-079A		1525.00	75.79	6.52	12.01	5.31	0.37
1602-080A		1526.00	81.05	7.24	6.03	5.36	0.33
1602-081A		1527.00	80.40	7.34	6.89	5.00	0.36
1602-082A		1528.00	74.89	7.54	11.25	5.76	0.55
1602-083A		1529.00	76.48	7.40	10.46	5.35	0.31
1602-084A		1530.00	74.05	6.47	12.02	6.62	0.84
1602-085A		1531.00	78.44	6.90	8.48	5.73	0.45
1602-086A		1532.00	78.02	6.86	9.82	4.91	0.39
1602-087A		1533.00	81.86	7.11	5.99	4.77	0.27
1602-088A		1534.00	76.82	7.88	9.20	5.34	0.76
1602-089A		1535.00	74.05	7.46	11.39	6.64	0.47
1602-090A		1536.00	78.75	7.50	8.26	5.12	0.36
1602-091A		1537.00	81.08	7.51	6.02	5.17	0.22
1602-092A		1538.00	82.65	7.62	4.22	5.15	0.36
1602-093A		1539.00	72.52	9.00	12.38	5.88	0.22
1602-094A		1540.00	78.37	8.80	7.46	4.33	1.04
1602-095A		1541.00	81.83	7.39	5.07	5.56	0.14
1602-096A		1542.00	54.98	9.60	30.20	5.01	0.21
1602-097A		1543.00	75.70	7.87	9.75	6.30	0.38
1602-098A		1544.00	74.39	9.69	9.15	6.34	0.43
1602-099		1545.0	70.86	9.39	9.12	10.50	0.14
1602-100A		1545.5	39.27	4.73	39.64	16.00	0.36
1602-101A		1546.0	29.75	4.96	49.59	14.88	0.83
1602-102A		1546.8	71.80	7.27	12.36	8.46	0.11
1602-103A		1547.5	42.31	4.81	45.19	6.73	0.96
1602-104		1548.0	69.98	7.76	15.60	6.41	0.25
1602-105		1548.5	63.91	6.52	21.74	7.39	0.43
1602-106		1551.0	82.40	6.23	5.72	5.27	0.38
1602-107A		1551.5	83.04	6.16	5.51	5.19	0.11
1602-108A		1552.0	82.41	5.95	7.08	4.38	0.18
1602-109		1555.0	45.50	8.00	28.00	18.00	0.50
1602-110		1557.0	30.54	4.19	42.51	22.16	0.60
1602-111		1557.5	34.15	5.49	43.90	15.85	0.61
1602-112		1558.0	38.27	11.11	29.63	20.74	0.25
1602-113		1559.0	50.00	10.89	18.81	19.80	0.50
1602-114A		1560.0	41.75	7.77	21.84	28.16	0.49
1602-115		1561.0	44.04	13.99	21.24	20.21	0.52
1602-116		1562.0	21.49	5.79	42.15	29.75	0.83
1602-117		1562.5	40.56	22.82	17.46	18.87	0.28



TABLE 8
COMPOSITION (NORMALISED %) OF C₁₅₊ MATERIAL

JOB	LITHO	DEPTH	HYDROCARBONS		NON HYDROCARBONS		
			Saturates	Aromatics	Precipd. Asphaltenes	Eluted NSO's	Non eluted NSO's
1602-118		1563.0	36.68	15.72	34.93	12.45	0.22
1602-119		1564.0	28.72	16.49	22.34	31.91	0.53
1602-120		1564.5	45.45	15.38	16.78	22.03	0.35
1602-121		1565.0	20.24	7.14	26.79	45.24	0.60
1602-122		1565.5	39.95	18.51	18.51	22.80	0.23
1602-123		1566.0	33.21	16.97	21.30	28.16	0.36
1602-124		1566.5	29.37	16.73	31.60	21.93	0.37
1602-125A		1567.0	38.02	23.44	23.70	14.58	0.26
1602-126		1567.5	33.19	15.97	33.19	17.23	0.42
1602-127A		1570.0	12.68	4.88	18.05	63.90	0.49
1602-128		1573.0	32.85	19.34	26.28	21.17	0.36
1602-129A		1628.0	31.44	6.99	37.12	24.02	0.44
1602-130A		1830.8	42.27	21.31	24.40	11.68	0.34
1602-131A		1850.9	40.10	10.63	41.55	7.25	0.48
1602-156A		1915.3	28.62	10.14	29.53	31.52	0.18
1602-132A		1942.3	18.77	25.43	43.90	11.81	0.10
1602-133A		2117.4	35.98	18.25	17.99	27.51	0.26
1602-134A		2141.2	41.49	20.43	10.53	27.24	0.31
1602-135A		2158.2	63.69	11.04	12.10	12.95	0.21
1602-136A		2184.6	73.48	6.71	14.33	5.18	0.30
1602-157A		2213.7	25.09	18.64	34.05	21.86	0.36
1602-137A		2229.1	30.12	23.42	28.31	17.89	0.26
1602-158		2230	18.97	17.00	18.18	45.45	0.40
1602-138A		2276.8	33.33	9.21	20.61	36.40	0.44
1602-159A		2582.5	34.39	25.79	23.98	15.38	0.45
1602-160A		2625.0	45.61	6.43	35.67	11.70	0.58
1602-161A		2634.0	47.39	7.11	27.01	18.01	0.47
1602-162A		2650.0	38.02	17.07	21.56	23.05	0.30
1602-163A		2662.0	28.97	10.75	21.03	38.79	0.47
1602-164A		2668.0	43.56	8.71	19.70	27.65	0.38
1602-165A		2681.5	37.11	14.18	13.14	35.31	0.26
1602-166A		2685.0	33.57	14.15	18.94	33.09	0.24
1602-167A		2690.0	34.65	13.52	20.85	30.70	0.28
1602-168A		2719.0	37.82	14.21	21.32	26.40	0.25
1602-169		2759.0	36.89	16.50	21.68	24.60	0.32
1602-170A		2778.0	42.58	14.85	17.37	24.93	0.28
1602-171A		2813.0	40.61	13.38	16.20	29.34	0.47
1602-172A		2830.0	37.29	28.18	7.63	26.69	0.21
1602-173A		2910.0	46.72	17.44	12.00	23.68	0.16
1602-174A		3063.0	46.26	10.25	25.48	17.17	0.83
1602-175A		3100.0	48.21	12.17	16.23	23.15	0.24
1602-176A		3269.0	54.12	6.59	23.63	15.38	0.27
1602-177A		3302.0	42.51	14.97	26.65	14.97	0.90
1602-178A		3366.0	51.41	7.28	19.72	21.36	0.23
1602-179A		3373.5	37.28	23.46	22.47	16.54	0.25
1602-180A		3396.0	55.66	11.32	10.57	22.26	0.19



TABLE 9
SIGNIFICANT RATIOS (%) OF C₁₅₊ FRACTIONS AND ORGANIC CARBON

JOB	LITHO	DEPTH	ORGANIC CARBON (wt. %)	HYDROCARBONS TOTAL EXTRACT	HYDROCARBONS ORG. CARBON	TOTAL EXTRACT ORG. CARBON	SATURATES AROMATICS
GEOCHEM SAMPLE NUMBER							
1602-139		900	1.05	78.84	9.52	12.07	10.66
1602-140A		910	1.04	85.56	29.53	34.51	11.63
1602-141A		920	1.02	86.56	35.32	40.80	12.08
1602-142A		950	1.46	65.42	6.41	9.80	7.53
1602-143A		980	1.44	70.22	13.54	19.28	7.77
1602-144		1173.4	0.60	42.28	1.45	3.43	1.65
1602-145		1322.0	1.82	51.79	6.28	12.12	4.05
1602-146A		1365	2.58	33.74	2.96	8.76	2.44
1602-147A		1377.0	1.15	42.86	7.51	17.53	4.69
1602-148		1380	1.47	49.48	3.47	7.01	1.85
1602-149		1390	1.82	75.37	8.21	10.89	5.13
1602-150A		1400	2.06	80.83	8.83	10.92	3.56
1602-151A		1410	2.63	77.92	10.72	13.76	4.09
1602-152A		1415	3.16	79.07	10.21	12.91	3.70
1602-153A		1420	3.35	75.45	10.19	13.51	2.99
1602-154A		1425	3.69	79.67	7.82	9.81	2.57
1602-155A		1430	3.15	77.65	7.89	10.15	3.41
1602-001A		1444.00	0.10	52.19	11.71	22.44	4.56
1602-002A		1445.00	0.14	60.30	9.99	16.56	4.36
1602-003A		1446.00	0.14	61.69	14.07	22.80	5.20
1602-004A		1447.00	0.15	71.68	13.16	18.36	5.03
1602-005A		1448.00	0.24	69.78	7.59	10.87	5.23
1602-006A		1449.00	0.06	64.72	19.75	30.52	5.59
1602-007A		1450.00	0.11	70.05	17.62	25.15	5.56
1602-008A		1451.00	0.09	65.65	17.89	27.25	6.51
1602-009A		1452.00	0.18	70.10	15.40	21.97	5.58
1602-010A		1453.00	0.05	44.83	7.67	17.12	3.11
1602-011A		1454.00	0.13	65.75	15.20	23.11	5.36
1602-012A		1455.00	0.06	45.95	8.42	18.33	3.08
1602-013A		1456.00	0.17	60.62	11.73	19.35	4.11
1602-014A		1457.00	0.30	56.54	4.21	7.45	4.76
1602-015A		1458.00	0.29	57.59	4.54	7.89	4.02
1602-016		1459.00	0.82	69.53	3.56	5.12	3.66
1602-017A		1460.00	0.42	59.47	3.96	6.65	3.84
1602-018A		1461.00	0.48	65.24	4.59	7.03	5.03
1602-019A		1462.00	0.22	63.53	5.85	9.21	4.16
1602-020A		1463.00	0.07	55.71	8.51	15.28	7.71
1602-021A		1464.00	0.90	77.14	6.11	7.92	4.92
1602-022A		1466.00	0.07	59.37	10.77	18.14	9.13
1602-023A		1467.00	0.07	49.71	8.03	16.15	5.96
1602-024A		1468.00	1.43	48.98	3.25	6.63	1.85
1602-025A		1469.00	2.09	76.42	3.76	4.93	2.77
1602-026A		1470.00	1.65	69.56	3.95	5.68	3.07
1602-027A		1471.00	1.88	69.06	3.88	5.62	3.04
1602-028A		1472.00	1.23	69.68	3.36	4.83	4.34



TABLE 9
SIGNIFICANT RATIOS (%) OF C₁₅₊ FRACTIONS AND ORGANIC CARBON

JOB	LITHO	DEPTH	ORGANIC CARBON (wt. %)	HYDROCARBONS		TOTAL EXTRACT	SATURATES
GEOCHEM SAMPLE NUMBER				TOTAL EXTRACT	ORG. CARBON	ORG. CARBON	AROMATICS
1602-029A		1473.00	0.12	76.20	16.07	21.09	7.21
1602-030A		1474.00	0.12	77.54	19.29	24.87	6.36
1602-031A		1475.00	0.08	72.50	16.18	22.32	8.00
1602-032A		1476.00	0.06	76.55	18.85	24.63	7.68
1602-033A		1477.00	0.10	72.56	23.88	32.92	8.26
1602-034A		1478.00	0.09	59.37	19.53	32.89	7.64
1602-035A		1479.00	0.48	81.13	11.43	14.08	7.16
1602-036A		1480.00	0.76	66.57	5.23	7.86	2.03
1602-037		1481.00	3.28	67.83	0.91	1.34	2.55
1602-181		1481.00	1.35	55.67	2.99	5.38	2.49
1602-038		1482.00	0.98	63.50	3.22	5.07	4.64
1602-039A		1483.00	0.33	68.80	14.39	20.92	6.32
1602-040A		1484.00	0.29	77.66	12.85	16.54	7.37
1602-041A		1485.00	1.58	53.13	1.74	3.27	1.81
1602-042		1486.00	1.93	54.47	1.97	3.62	1.51
1602-043		1487.00	0.12	64.01	23.35	36.48	4.28
1602-044A		1488.00	0.12	85.22	32.77	38.46	9.22
1602-045A		1490.00	0.11	85.66	58.86	68.71	9.44
1602-046A		1491.00	0.11	90.80	82.80	91.20	6.71
1602-047A		1492.00	0.11	87.82	52.96	60.31	9.22
1602-048A		1494.00	0.35	86.50	25.57	29.56	7.54
1602-049A		1495.00	0.29	87.38	30.62	35.04	9.97
1602-050A		1496.00	0.12	83.65	34.23	40.92	9.74
1602-051A		1497.00	0.09	83.38	70.50	84.55	9.35
1602-052A		1498.00	0.11	87.56	58.42	66.72	11.25
1602-053A		1499.00	0.12	84.30	41.96	49.77	9.91
1602-054A		1500.00	1.76	63.63	7.78	12.23	4.73
1602-055A		1501.00	0.22	78.71	26.85	34.11	8.64
1602-056A		1502.00	0.76	73.08	9.14	12.51	2.99
1602-057A		1503.00	0.10	85.47	29.95	35.04	10.10
1602-058A		1504.00	0.20	83.84	29.81	35.55	6.36
1602-059A		1505.00	0.10	83.23	48.35	58.09	7.20
1602-060A		1506.00	0.11	87.69	47.26	53.89	10.68
1602-061A		1507.00	0.09	87.15	61.85	70.96	8.26
1602-062A		1508.00	0.11	90.55	71.61	79.09	11.18
1602-063A		1509.00	0.16	89.79	47.09	52.45	9.70
1602-064A		1510.00	0.15	65.57	9.81	14.96	9.74
1602-065A		1511.00	0.12	87.51	38.47	43.96	9.89
1602-066A		1512.00	0.09	89.06	82.67	92.82	8.15
1602-067A		1513.00	0.10	88.98	79.09	88.89	10.09
1602-068A		1514.00	0.11	87.78	70.42	80.23	10.60
1602-069A		1515.00	0.11	88.48	45.45	51.37	10.75
1602-070A		1516.00	0.09	89.83	87.18	97.05	10.33
1602-071A		1517.00	0.06	84.76	131.18	154.77	7.27
1602-072A		1518.00	0.10	88.00	55.59	63.17	10.37



TABLE 9
SIGNIFICANT RATIOS (%) OF C₁₅₊ FRACTIONS AND ORGANIC CARBON

JOB	LITHO	DEPTH	ORGANIC CARBON (wt. %)	HYDROCARBONS		TOTAL EXTRACT	SATURATES
GEOCHEM SAMPLE NUMBER				TOTAL EXTRACT	ORG. CARBON	ORG. CARBON	AROMATICS
1602-073A		1519.00	0.09	85.91	87.79	102.18	8.09
1602-074A		1520.00	0.07	89.10	99.97	112.19	8.16
1602-075A		1521.00	0.31	82.74	27.25	32.93	5.16
1602-076A		1522.00	0.08	88.71	62.26	70.18	10.50
1602-077A		1523.00	0.09	86.63	52.59	60.71	11.03
1602-078A		1524.00	0.10	89.13	55.14	61.87	10.22
1602-079A		1525.00	0.10	82.31	32.97	40.06	11.63
1602-080A		1526.00	0.10	88.28	75.63	85.66	11.20
1602-081A		1527.00	0.51	87.75	21.63	24.65	10.95
1602-082A		1528.00	0.42	82.44	25.39	30.80	9.93
1602-083A		1529.00	0.22	83.87	34.29	40.89	10.34
1602-084A		1530.00	0.09	80.52	43.86	54.48	11.45
1602-085A		1531.00	0.11	85.34	58.60	68.67	11.37
1602-086A		1532.00	0.10	84.88	48.46	57.10	11.37
1602-087A		1533.00	0.09	88.97	66.47	74.71	11.51
1602-088A		1534.00	0.09	84.70	76.71	90.57	9.75
1602-089A		1535.00	0.11	81.50	49.74	61.02	9.93
1602-090A		1536.00	0.10	86.26	86.35	100.11	10.50
1602-091A		1537.00	0.11	88.59	77.28	87.23	10.79
1602-092A		1538.00	0.10	90.27	71.93	79.68	10.85
1602-093A		1539.00	1.18	81.53	8.83	10.83	8.05
1602-094A		1540.00	0.19	87.17	34.17	39.20	8.90
1602-095A		1541.00	0.12	89.22	81.20	91.01	11.07
1602-096A		1542.00	0.85	64.58	5.76	8.92	5.73
1602-097A		1543.00	0.10	83.57	94.42	112.98	9.62
1602-098A		1544.00	0.38	84.08	24.50	29.14	7.68
1602-099		1545.0	0.57	80.25	12.76	15.90	7.54
1602-100A		1545.5	0.56	44.00	3.79	8.62	8.31
1602-101A		1546.0	0.28	34.71	1.40	4.03	6.00
1602-102A		1546.8	0.62	79.07	10.15	12.84	9.88
1602-103A		1547.5	0.44	47.12	1.14	2.42	8.80
1602-104		1548.0	1.35	77.74	6.74	8.67	9.02
1602-105		1548.5	0.80	70.43	3.44	4.88	9.80
1602-106		1551.0	0.83	88.63	31.71	35.78	13.23
1602-107A		1551.5	0.35	89.20	81.47	91.34	13.48
1602-108A		1552.0	0.26	88.36	68.50	77.52	13.84
1602-109		1555.0	0.78	53.50	1.82	3.40	5.69
1602-110		1557.0	0.65	34.73	1.12	3.22	7.29
1602-111		1557.5	1.06	39.63	0.90	2.27	6.22
1602-112		1558.0	1.13	49.38	3.16	6.40	3.44
1602-113		1559.0	0.65	60.89	6.12	10.06	4.59
1602-114A		1560.0	0.66	49.51	7.58	15.30	5.37
1602-115		1561.0	0.70	58.03	4.58	7.90	3.15
1602-116		1562.0	1.24	27.27	0.31	1.15	3.71
1602-117		1562.5	0.89	63.38	3.11	4.91	1.78



TABLE 9
SIGNIFICANT RATIOS (%) OF C₁₅₊ FRACTIONS AND ORGANIC CARBON

JOB	LITHO	DEPTH	ORGANIC CARBON (wt. %)	HYDROCARBONS	HYDROCARBONS	TOTAL EXTRACT	SATURATES
GEOCHEM SAMPLE NUMBER				TOTAL EXTRACT	ORG CARBON	ORG. CARBON	AROMATICS
1602-118		1563.0	1.00	52.40	3.07	5.86	2.33
1602-119		1564.0	0.97	45.21	1.59	3.51	1.74
1602-120		1564.5	0.61	60.84	7.41	12.18	2.95
1602-121		1565.0	0.92	27.38	1.12	4.10	2.83
1602-122		1565.5	1.01	58.47	4.12	7.05	2.16
1602-123		1566.0	0.57	50.18	9.34	18.62	1.96
1602-124		1566.5	0.90	46.10	3.51	7.62	1.76
1602-125A		1567.0	1.53	61.46	2.26	3.68	1.62
1602-126		1567.5	1.07	49.16	1.63	3.32	2.08
1602-127A		1570.0	1.18	17.56	0.81	4.61	2.60
1602-128		1573.0	0.53	52.19	7.25	13.90	1.70
1602-129A		1628.0	0.21	38.43	9.27	24.13	4.50
1602-130A		1830.8	0.67	63.57	2.54	3.99	1.98
1602-131A		1850.9	0.51	50.72	1.47	2.91	3.77
1602-156A		1915.3	0.38	38.77	6.64	17.13	2.82
1602-132A		1942.3	22.35	44.20	0.22	0.74	0.74
1602-133A		2117.4	1.04	54.23	4.21	7.77	1.97
1602-134A		2141.2	0.92	61.92	2.11	3.41	2.03
1602-135A		2158.2	1.91	74.73	1.25	1.67	5.77
1602-136A		2184.6	2.00	80.18	1.62	2.02	10.95
1602-157A		2213.7	0.81	43.73	2.46	5.63	1.35
1602-137A		2229.1	3.17	53.54	1.35	2.53	1.29
1602-158		2230	1.08	35.97	0.61	1.70	1.12
1602-138A		2276.8	1.16	42.54	1.34	3.16	3.62
1602-159A		2582.5	0.49	60.18	1.90	3.16	1.33
1602-160A		2625.0	0.21	52.05	3.08	5.91	7.09
1602-161A		2634.0	0.30	54.50	15.91	29.18	6.67
1602-162A		2650.0	1.29	55.09	2.56	4.65	2.23
1602-163A		2662.0	1.31	39.72	0.72	1.82	2.70
1602-164A		2668.0	0.18	52.27	9.78	18.71	5.00
1602-165A		2681.5	0.66	51.29	1.70	4.52	2.62
1602-166A		2685.0	1.09	47.72	2.85	5.98	2.37
1602-167A		2690.0	1.28	48.17	1.14	2.37	2.56
1602-168A		2719.0	1.17	52.03	1.20	2.31	2.66
1602-169		2759.0	0.96	53.40	1.17	2.19	2.24
1602-170A		2778.0	1.53	57.42	0.99	1.73	2.87
1602-171A		2813.0	0.80	53.99	2.15	3.98	3.04
1602-172A		2830.0	1.34	65.47	1.82	2.78	1.32
1602-173A		2910.0	1.31	64.16	2.55	3.98	2.68
1602-174A		3063.0	1.13	56.51	1.49	2.64	4.51
1602-175A		3100.0	1.15	60.38	1.62	2.68	3.96
1602-176A		3269.0	1.34	60.71	1.32	2.18	8.21
1602-177A		3302.0	1.04	57.49	1.55	2.70	2.84
1602-178A		3366.0	1.62	58.69	1.82	3.10	7.06
1602-179A		3373.5	0.74	60.74	4.37	7.19	1.59
1602-180A		3396.0	0.84	66.98	3.93	5.87	4.92

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

GEOCHEM SAMPLE NUMBER	139	140A	141A	142A	143A
DEPTH	900.0	910.0	920.0	950.0	980.0
SAMPLE TYPE	CT	CT	CT	CT	CT
nC15	3.43	4.08	5.76	7.59	8.43
nC16	4.99	5.39	6.91	7.48	7.94
nC17	5.78	6.59	7.07	6.99	9.94
nC18	6.92	6.96	7.49	6.88	9.05
nC19	8.12	6.54	7.43	6.78	7.53
nC20	7.28	7.22	7.02	6.67	7.94
nC21	8.30	7.22	6.39	6.40	7.39
nC22	7.94	7.01	7.49	6.07	6.01
nC23	7.16	7.38	6.49	5.64	6.08
nC24	7.22	6.91	6.65	5.47	5.25
nC25	6.86	6.17	5.76	5.15	5.18
nC26	5.78	5.39	5.81	4.28	3.87
nC27	4.99	6.23	5.71	4.50	3.66
nC28	4.51	4.81	4.19	3.63	2.69
nC29	3.85	3.98	3.04	4.07	2.14
nC30	2.35	2.62	2.15	2.49	1.93
nC31	1.93	1.88	1.88	2.33	1.80
nC32	1.14	1.15	1.15	1.63	1.24
nC33	0.72	1.10	0.79	1.73	0.97
nC34	0.48	0.73	0.58	1.84	0.62
nC35	0.24	0.63	0.26	2.38	0.35
Paraffin	68.73	67.31	70.66	71.99	68.46
Isoprenoid	2.11	2.22	3.07	2.85	3.88
Naphttene	29.16	30.47	26.27	25.17	27.66
CPI 1 Index	1.02	1.07	0.96	1.04	1.11
CPI 2 Index	1.08	1.12	1.05	1.17	1.12
CPI 3 Index	0.97	1.22	1.14	1.14	1.12
Prist/Phytane	1.68	1.74	1.96	2.04	2.28
Prist/nC17	0.33	0.32	0.41	0.38	0.40
Phytane/nC18	0.17	0.17	0.20	0.19	0.19

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

Job Number : 1602

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

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



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

GEOCHEM SAMPLE NUMBER	144	145	146A	147A	148
DEPTH	1173.4	1322.0	1365.0	1377.0	1380.0
SAMPLE TYPE	SWC	SWC	CT	SWC	CT
nC15	15.08	12.11	8.13	17.74	23.67
nC16	12.76	9.87	8.13	14.02	19.76
nC17	11.08	8.97	8.27	9.93	13.39
nC18	9.54	8.97	10.26	7.94	8.98
nC19	10.05	8.16	9.76	5.96	6.53
nC20	7.60	7.44	8.20	5.09	4.90
nC21	6.70	6.28	7.91	4.84	4.24
nC22	5.15	5.83	7.27	4.84	3.59
nC23	4.90	5.47	5.84	4.71	3.10
nC24	3.48	4.93	5.13	3.72	2.45
nC25	3.35	4.39	4.78	3.72	2.12
nC26	2.32	3.41	3.64	2.98	1.63
nC27	1.93	3.32	2.92	3.10	1.31
nC28	1.55	2.69	2.57	3.72	0.98
nC29	1.55	2.51	2.07	2.36	0.82
nC30	1.03	1.61	1.35	1.24	0.49
nC31	0.77	1.35	1.21	1.36	0.49
nC32	0.52	0.81	0.78	0.74	0.49
nC33	0.39	0.90	0.86	0.87	0.49
nC34	0.13	0.63	0.43	0.62	0.33
nC35	0.13	0.36	0.50	0.50	0.24
Paraffin	59.46	51.43	67.97	60.28	53.52
Isoprenoid	3.75	4.06	3.29	3.07	3.23
Naphthene	36.78	44.51	28.73	36.65	43.25
CPI 1 Index	1.13	1.03	1.02	1.03	1.05
CPI 2 Index	1.16	1.14	1.09	1.06	1.09
CPI 3 Index	1.00	1.09	0.94	0.93	1.00
Prist/Phytane	2.50	2.14	3.00	2.73	4.29
Prist/nC17	0.41	0.60	0.44	0.38	0.37
Phytane/nC18	0.19	0.28	0.12	0.17	0.13

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

Job Number : 1602

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

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



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

GEOCHEM SAMPLE NUMBER	149	150A	151A	152A	153A
DEPTH	1390.0	1400.0	1410.0	1415.0	1420.0
SAMPLE TYPE	CT	CT	CT	CT	CT
nC15	12.96	12.61	13.41	18.63	12.69
nC16	10.60	12.51	11.82	12.31	11.51
nC17	10.80	12.00	12.10	8.72	11.05
nC18	8.85	9.56	10.23	8.03	9.59
nC19	7.41	9.05	9.10	7.18	8.49
nC20	6.28	7.12	7.22	6.50	8.31
nC21	5.86	6.51	6.47	5.30	6.39
nC22	5.56	5.60	5.91	4.79	5.94
nC23	5.66	4.48	4.41	4.44	4.57
nC24	4.53	4.07	3.75	4.44	3.65
nC25	4.32	3.46	3.75	3.42	3.20
nC26	3.81	2.75	2.35	3.08	3.11
nC27	3.29	2.95	2.25	2.73	2.56
nC28	2.57	1.93	1.88	2.39	2.19
nC29	2.06	1.42	1.50	2.05	2.28
nC30	1.54	1.12	1.03	1.71	1.37
nC31	1.44	1.02	1.03	1.37	1.10
nC32	0.93	0.61	0.66	0.85	0.73
nC33	0.72	0.61	0.56	0.85	0.64
nC34	0.51	0.41	0.38	0.68	0.46
nC35	0.31	0.20	0.19	0.51	0.18
Paraffin	50.76	59.68	56.46	53.87	63.85
Isoprenoid	5.90	6.68	5.67	3.78	5.89
Naphthene	43.34	33.64	37.87	42.36	30.26
CPI 1 Index	1.06	1.05	1.05	0.96	0.96
CPI 2 Index	1.07	1.14	1.20	1.01	1.06
CPI 3 Index	1.03	1.26	1.07	1.00	0.97
Prist/Phytane	1.90	2.14	2.24	1.93	2.37
Prist/nC17	0.70	0.64	0.57	0.53	0.59
Phytane/nC18	0.45	0.37	0.30	0.30	0.29

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

Job Number : 1602

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

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

CT - ditch cuttings CO - core SWC - sidewall core



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

GEOCHEM SAMPLE NUMBER	154A	155A	001A	002A	003A
DEPTH	1425.0	1430.0	1444.00	1445.00	1446.00
SAMPLE TYPE	CT	CT	CO	CO	CO
nC15	9.79	7.69	1.24	0.25	8.46
nC16	8.80	6.88	5.15	3.63	11.07
nC17	8.41	7.94	8.14	9.54	11.94
nC18	7.81	8.88	8.86	11.91	12.29
nC19	7.81	8.25	8.60	11.23	9.94
nC20	7.22	8.69	8.79	9.54	9.07
nC21	6.53	7.75	9.12	9.29	7.15
nC22	6.33	7.44	9.12	9.21	7.59
nC23	5.34	7.44	8.01	8.11	5.67
nC24	4.95	5.81	7.30	6.59	4.10
nC25	4.45	5.31	5.93	5.66	3.57
nC26	4.06	4.06	5.08	4.31	2.62
nC27	4.06	3.56	4.23	3.46	1.92
nC28	3.17	3.06	3.13	2.45	1.48
nC29	3.07	2.44	2.80	1.86	1.05
nC30	2.28	1.56	1.69	1.10	0.52
nC31	1.78	1.19	1.30	0.84	0.52
nC32	1.19	0.69	0.72	0.42	0.35
nC33	1.29	0.69	0.39	0.34	0.26
nC34	1.09	0.44	0.26	0.17	0.26
nC35	0.59	0.25	0.13	0.08	0.17
Paraffin	49.58	64.99	63.67	61.13	63.55
Isoprenoid	4.56	3.94	3.24	3.25	6.37
Naphthene	45.86	31.07	33.10	35.62	30.08
CPI 1 Index	1.00	1.05	1.00	1.04	0.97
CPI 2 Index	1.09	1.10	1.09	1.12	1.12
CPI 3 Index	1.12	1.00	1.03	1.02	0.94
Prist/Phytane	2.00	2.03	1.69	1.86	1.88
Prist/nC17	0.73	0.51	0.39	0.36	0.55
Phytane/nC18	0.39	0.23	0.21	0.16	0.28

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

Job Number : 1602

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

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

CT - ditch cuttings CO - core SWC - sidewall core



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

GEOCHEM SAMPLE NUMBER	004A	005A	006A	007A	008A
DEPTH	1447.00	1448.00	1449.00	1450.00	1451.00
SAMPLE TYPE	CO	CO	CO	CO	CO
nC15	4.37	2.49	0.74	1.81	4.71
nC16	12.39	7.38	4.07	5.11	8.60
nC17	12.39	11.53	9.16	10.14	10.29
nC18	17.24	12.36	11.01	10.39	10.44
nC19	12.14	11.53	11.56	11.71	9.34
nC20	9.71	11.07	11.01	11.62	8.60
nC21	8.14	8.67	9.44	8.24	8.01
nC22	6.07	8.12	8.70	6.93	7.57
nC23	5.10	6.55	7.68	7.42	6.62
nC24	3.40	5.17	6.38	6.51	5.51
nC25	2.91	4.06	5.55	5.44	4.78
nC26	1.82	3.14	3.98	3.87	3.82
nC27	1.46	2.21	2.87	3.30	3.24
nC28	0.97	1.57	2.68	2.23	2.28
nC29	0.61	1.11	2.04	2.14	2.06
nC30	0.61	1.01	1.11	0.82	1.32
nC31	0.24	0.83	0.93	0.82	1.03
nC32	0.12	0.55	0.46	0.49	0.81
nC33	0.12	0.37	0.37	0.49	0.44
nC34	0.12	0.18	0.19	0.33	0.29
nC35	0.06	0.09	0.09	0.16	0.22
Paraffin	47.42	65.14	53.59	62.33	66.47
Isoprenoid	5.93	5.35	3.42	4.88	5.03
Naphthene	46.65	29.51	42.98	32.79	28.49
CPI 1 Index	1.14	0.99	1.01	1.05	1.03
CPI 2 Index	1.13	1.03	1.09	1.22	1.10
CPI 3 Index	1.04	0.94	0.86	1.08	1.06
Prist/Phytane	1.86	1.62	1.56	1.97	2.03
Prist/nC17	0.66	0.44	0.42	0.51	0.49
Phytane/nC18	0.25	0.25	0.23	0.25	0.24

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

Job Number : 1602

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

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

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

GEOCHEM SAMPLE NUMBER	009A	010A	011A	012A	013A
DEPTH	1452.00	1453.00	1454.00	1455.00	1456.00
SAMPLE TYPE	CO	CO	CO	CO	CO
nC15	10.18	2.95	6.61	4.01	6.90
nC16	11.32	4.02	11.36	6.27	10.63
nC17	11.09	4.33	11.44	10.62	11.85
nC18	9.49	3.89	12.29	11.71	11.28
nC19	9.49	3.45	9.75	11.04	10.23
nC20	8.19	3.77	9.32	9.62	9.09
nC21	7.42	3.52	7.12	7.27	7.87
nC22	6.73	3.58	5.85	5.85	6.66
nC23	5.81	4.08	5.51	5.02	5.84
nC24	4.36	4.40	4.41	4.60	4.55
nC25	3.98	5.03	4.32	4.18	3.65
nC26	3.21	6.60	2.88	3.34	3.08
nC27	2.68	7.47	2.29	3.26	2.68
nC28	1.68	8.79	1.78	3.01	1.87
nC29	1.53	8.92	1.69	3.01	1.54
nC30	1.07	7.60	1.10	2.17	0.81
nC31	0.77	6.91	0.93	1.92	0.57
nC32	0.46	4.40	0.51	1.25	0.57
nC33	0.31	3.14	0.34	0.84	0.16
nC34	0.15	2.01	0.34	0.59	0.08
nC35	0.08	1.13	0.17	0.42	0.08
Paraffin	69.41	67.95	67.97	66.44	62.73
Isoprenoid	3.24	1.75	5.93	4.17	3.82
Naphthene	27.35	30.30	26.09	29.39	33.45
CPI 1 Index	1.06	0.98	1.07	1.01	1.05
CPI 2 Index	1.13	1.03	1.19	1.10	1.08
CPI 3 Index	1.09	0.97	0.98	1.03	1.08
Prist/Phytane	2.05	1.73	1.86	2.75	2.13
Prist/nC17	0.28	0.38	0.50	0.43	0.35
Phytane/nC18	0.16	0.24	0.25	0.14	0.17

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

Job Number : 1602

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

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

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

GEOCHEM SAMPLE NUMBER	014A	015A	016	017A	018A
DEPTH	1457.00	1458.00	1459.00	1460.00	1461.00
SAMPLE TYPE	CO	CO	CO	CO	CO
nC15	0.30	0.56	1.15	4.84	2.27
nC16	2.01	2.12	2.79	7.46	7.02
nC17	5.23	5.22	4.11	7.91	9.64
nC18	7.84	8.12	5.42	8.20	9.77
nC19	8.45	9.32	5.75	7.80	9.91
nC20	8.27	9.88	6.51	6.94	9.22
nC21	8.51	9.67	6.35	7.68	8.95
nC22	8.57	9.46	7.61	7.00	7.64
nC23	8.15	8.26	8.10	6.43	6.81
nC24	7.17	7.06	7.17	6.66	5.44
nC25	7.05	6.70	8.05	6.26	4.75
nC26	5.47	4.73	7.50	4.72	3.79
nC27	5.23	4.80	7.55	4.04	3.58
nC28	4.32	3.81	5.53	2.96	2.89
nC29	3.95	3.25	4.93	2.79	2.27
nC30	3.04	2.12	3.50	2.45	1.86
nC31	2.25	1.83	2.85	1.82	1.45
nC32	1.52	1.20	1.64	1.14	1.10
nC33	1.46	1.06	1.97	1.65	0.83
nC34	0.79	0.49	0.82	0.74	0.48
nC35	0.43	0.35	0.71	0.51	0.34
Paraffin	67.39	61.64	80.56	66.33	71.37
Isoprenoid	1.84	2.22	1.54	3.66	4.22
Napthene	30.77	36.15	17.90	30.01	24.41
CPI 1 Index	1.06	1.06	1.06	1.05	1.07
CPI 2 Index	1.11	1.17	1.14	1.11	1.06
CPI 3 Index	1.07	1.12	1.16	1.05	1.07
Prist/Phytane	1.25	1.04	2.18	2.03	1.69
Prist/nC17	0.29	0.35	0.32	0.47	0.39
Phytane/nC18	0.16	0.22	0.11	0.22	0.23

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

Job Number : 1602

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

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



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

GEOCHEM SAMPLE NUMBER	019A	020A	021A	022A	023A
DEPTH	1462.00	1463.00	1464.00	1466.00	1467.00
SAMPLE TYPE	CO	CO	CO	CO	CO
nC15	2.11	0.38	2.24	4.88	7.09
nC16	5.58	2.12	3.18	7.47	10.93
nC17	10.63	5.46	4.05	8.85	11.87
nC18	10.94	8.35	5.42	9.22	12.64
nC19	10.63	9.10	5.67	10.60	10.59
nC20	9.88	9.86	6.29	10.69	7.69
nC21	9.43	10.62	7.60	9.03	6.92
nC22	8.30	9.64	9.03	7.56	5.64
nC23	7.54	9.18	9.15	7.00	4.78
nC24	5.81	7.21	8.53	5.90	3.84
nC25	5.28	6.83	7.91	5.99	3.67
nC26	4.00	5.46	5.98	3.23	2.99
nC27	2.79	4.48	5.79	2.30	2.65
nC28	2.19	3.03	4.48	2.49	2.13
nC29	1.58	2.96	4.73	1.57	1.79
nC30	1.06	1.82	3.05	1.01	1.28
nC31	0.75	1.52	2.43	0.55	1.11
nC32	0.53	0.99	1.74	0.74	0.60
nC33	0.53	0.53	1.56	0.37	0.77
nC34	0.30	0.30	0.68	0.28	0.51
nC35	0.15	0.15	0.50	0.28	0.51
Paraffin	72.58	73.22	79.82	42.40	43.96
Isoprenoid	4.43	4.50	1.24	2.42	3.49
Naphthene	22.99	22.28	18.94	55.18	52.55
CPI 1 Index	1.06	1.10	1.05	1.08	1.06
CPI 2 Index	1.07	1.15	1.16	1.11	1.11
CPI 3 Index	0.90	1.05	1.11	0.81	1.03
Prist/Phytane	1.89	1.38	1.27	1.14	1.82
Prist/nC17	0.38	0.65	0.22	0.34	0.43
Phytane/nC18	0.19	0.31	0.13	0.29	0.22

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

Job Number : 1602

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

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



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

GEOCHEM SAMPLE NUMBER	024A	025A	026A	027A	028A
DEPTH	1468.00	1469.00	1470.00	1471.00	1472.00
SAMPLE TYPE	CO	CO	CO	CO	CO
nC15	1.56	12.87	8.55	8.43	7.62
nC16	2.48	11.79	9.20	8.43	9.18
nC17	3.90	9.70	8.10	8.31	9.47
nC18	5.11	8.43	8.10	7.22	8.83
nC19	5.39	6.35	7.45	6.92	9.89
nC20	6.25	6.16	7.13	5.40	10.11
nC21	7.66	6.26	6.80	5.34	8.04
nC22	8.94	7.07	6.74	6.07	7.12
nC23	9.87	6.71	6.68	6.92	6.55
nC24	9.65	5.08	5.18	5.89	5.05
nC25	9.16	4.81	5.57	6.19	4.63
nC26	6.81	3.54	4.54	5.16	3.84
nC27	6.53	3.17	4.02	5.04	2.78
nC28	6.03	2.27	3.43	3.70	1.92
nC29	3.62	1.81	2.98	3.40	1.71
nC30	2.56	1.18	1.94	2.31	1.07
nC31	1.92	1.00	1.62	2.00	0.43
nC32	0.99	0.63	1.10	1.40	0.50
nC33	0.85	0.63	0.06	0.97	0.57
nC34	0.43	0.36	0.45	0.55	0.36
nC35	0.28	0.18	0.32	0.36	0.36
Paraffin	65.29	65.23	66.74	67.38	62.64
Isoprenoid	0.88	2.78	3.24	2.82	4.15
Naphthene	33.83	31.99	30.02	29.80	33.21
CPI 1 Index	1.05	1.06	1.07	1.09	1.03
CPI 2 Index	1.07	1.16	1.11	1.15	1.05
CPI 3 Index	1.02	1.09	1.01	1.14	0.96
Prist/Phytane	1.71	1.94	2.00	2.29	1.91
Prist/nC17	0.22	0.29	0.40	0.35	0.46
Phytane/nC18	0.10	0.17	0.20	0.18	0.26

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

Job Number : 1602

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

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



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

GEOCHEM SAMPLE NUMBER	029A	030A	031A	032A	033A
DEPTH	1473.00	1474.00	1475.00	1476.00	1477.00
SAMPLE TYPE	CO	CO	CO	CO	CO
nC15	5.11	3.28	4.71	5.27	7.55
nC16	7.78	6.02	8.47	9.06	12.98
nC17	8.50	10.29	9.56	10.84	14.59
nC18	8.56	11.38	10.28	9.73	13.08
nC19	8.26	12.81	10.28	9.58	11.57
nC20	7.84	10.73	8.76	8.09	9.15
nC21	7.96	10.29	7.60	8.46	7.55
nC22	8.08	8.43	7.24	6.31	6.34
nC23	6.89	7.01	6.52	6.38	5.03
nC24	5.35	5.47	5.36	5.27	3.72
nC25	6.24	4.60	4.78	4.68	2.62
nC26	4.16	3.17	3.98	5.27	1.61
nC27	3.98	2.30	3.62	3.12	1.41
nC28	2.79	1.75	2.61	2.52	0.91
nC29	2.61	1.09	2.03	1.78	0.70
nC30	1.49	0.55	1.45	1.19	0.40
nC31	1.60	0.33	1.16	0.97	0.30
nC32	0.95	0.22	0.65	0.67	0.20
nC33	0.89	0.11	0.51	0.37	0.10
nC34	0.59	0.11	0.29	0.30	0.10
nC35	0.36	0.05	0.14	0.15	0.10
Paraffin	73.21	64.17	64.74	59.76	70.25
Isoprenoid	4.70	4.43	5.58	6.08	7.70
Naphtene	22.10	31.40	29.68	34.16	22.05
CPI 1 Index	1.11	1.08	1.03	1.04	1.06
CPI 2 Index	1.29	1.11	1.10	0.92	1.19
CPI 3 Index	1.15	0.93	1.10	0.80	1.12
Prist/Phytane	1.92	1.52	2.13	1.63	2.52
Prist/nC17	0.50	0.40	0.61	0.58	0.54
Phytane/nC18	0.26	0.24	0.27	0.40	0.24

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

Job Number : 1602

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

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



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

GEOCHEM SAMPLE NUMBER	034A	035A	036A	037	181
DEPTH	1478.00	1479.00	1480.00	1481.00	1481.00
SAMPLE TYPE	CO	CO	CO	CO	CO
nC15	4.98	7.95	8.27	6.43	7.68
nC16	8.07	9.93	9.99	10.01	7.80
nC17	9.25	10.21	10.20	11.28	8.22
nC18	8.98	9.25	9.42	9.93	7.80
nC19	9.44	8.15	9.84	10.09	7.92
nC20	8.52	7.81	8.13	8.34	7.02
nC21	8.20	8.01	7.63	7.78	6.66
nC22	6.95	6.85	6.70	6.51	6.54
nC23	6.56	6.85	6.35	6.04	6.48
nC24	6.10	5.62	5.71	5.32	5.46
nC25	4.92	4.79	4.99	4.21	4.98
nC26	4.20	3.15	3.49	3.42	4.32
nC27	4.20	2.81	2.85	2.78	4.50
nC28	2.89	2.12	1.85	2.22	3.48
nC29	2.23	1.99	1.78	1.75	2.94
nC30	1.57	1.44	0.93	1.19	2.40
nC31	1.18	1.10	0.71	1.11	1.92
nC32	0.79	0.96	0.43	0.56	1.20
nC33	0.46	0.55	0.36	0.48	1.26
nC34	0.33	0.27	0.21	0.32	0.90
nC35	0.20	0.21	0.14	0.24	0.48
Paraffin	68.91	72.67	71.64	62.76	60.83
Isoprenoid	4.84	5.67	4.80	3.49	3.76
Naphthene	26.25	21.65	23.56	33.75	35.41
CPI 1 Index	1.06	1.11	1.07	1.04	1.06
CPI 2 Index	1.09	1.13	1.20	1.07	1.09
CPI 3 Index	1.19	1.06	1.07	0.99	1.15
Prist/Phytane	2.15	2.00	1.85	1.92	1.86
Prist/nC17	0.52	0.51	0.43	0.32	0.49
Phytane/nC18	0.25	0.28	0.25	0.19	0.28

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

Job Number : 1602

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

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

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

GEOCHEM SAMPLE NUMBER	038	039A	040A	041A	042
DEPTH	1482.00	1483.00	1484.00	1485.00	1486.00
SAMPLE TYPE	CO	CO	CO	CO	CO
nC15	3.21	5.65	9.91	11.97	10.32
nC16	9.34	7.16	10.06	11.73	10.40
nC17	12.46	8.04	10.34	10.82	10.04
nC18	12.17	8.27	10.06	10.91	9.24
nC19	11.39	8.10	7.65	8.69	10.32
nC20	9.93	7.80	7.22	7.71	7.94
nC21	9.64	7.16	7.15	6.97	7.44
nC22	7.40	6.58	6.52	6.48	5.05
nC23	6.81	6.64	6.73	5.90	5.70
nC24	4.67	5.53	5.17	5.00	4.33
nC25	3.89	5.07	4.53	4.02	5.27
nC26	2.82	4.54	3.33	2.87	3.03
nC27	2.14	4.37	2.97	2.38	2.89
nC28	1.27	3.32	2.05	1.64	1.95
nC29	1.07	3.26	1.98	1.23	1.73
nC30	0.58	2.27	1.20	0.66	1.37
nC31	0.49	1.98	1.06	0.41	1.08
nC32	0.49	1.46	0.71	0.25	0.72
nC33	0.10	1.22	0.71	0.16	0.58
nC34	0.10	0.82	0.42	0.08	0.36
nC35	0.05	0.76	0.21	0.12	0.22
Paraffin	58.87	63.85	72.48	69.79	77.98
Isoprenoid	5.39	5.02	7.24	4.01	3.83
Naphthene	35.75	31.13	20.28	26.21	18.19
CPI 1 Index	1.15	1.06	1.11	1.04	1.26
CPI 2 Index	1.14	1.10	1.17	1.14	1.29
CPI 3 Index	1.05	1.11	1.11	1.05	1.16
Prist/Phytane	2.03	1.87	2.20	2.33	1.72
Prist/nC17	0.49	0.64	0.66	0.37	0.31
Phytane/nC18	0.25	0.33	0.31	0.16	0.20

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

Job Number : 1602

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

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

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

GEOCHEM SAMPLE NUMBER	043	044A	045A	046A	047A
DEPTH	1487.00	1488.00	1490.00	1491.00	1492.00
SAMPLE TYPE	CO	CO	CO	CO	CO
nC15	11.71	8.16	5.08	8.87	6.52
nC16	11.20	9.39	8.02	10.27	8.92
nC17	10.87	9.86	8.96	9.22	9.54
nC18	10.12	9.73	8.76	9.85	9.17
nC19	8.61	9.05	8.62	8.80	8.55
nC20	7.19	7.96	9.36	7.39	7.82
nC21	6.69	6.80	8.09	7.39	7.69
nC22	5.60	6.46	8.09	6.26	7.26
nC23	5.10	6.05	6.68	5.00	6.89
nC24	6.86	5.10	6.15	4.36	5.35
nC25	3.51	4.76	6.02	3.87	4.98
nC26	2.93	3.61	4.48	3.31	3.63
nC27	2.59	3.27	3.81	2.67	3.63
nC28	1.92	2.52	2.74	1.90	2.89
nC29	1.76	2.31	2.01	1.76	2.34
nC30	1.17	1.63	1.20	1.13	1.48
nC31	0.92	1.29	0.80	1.06	1.23
nC32	0.59	0.75	0.40	0.70	0.80
nC33	0.33	0.68	0.40	5.63	0.62
nC34	0.25	0.41	0.27	0.35	0.43
nC35	0.08	0.20	0.07	0.21	0.25
Paraffin	60.31	63.89	61.34	62.27	66.08
Isoprenoid	4.39	5.65	5.29	6.40	5.29
Naphtene	35.30	30.47	33.37	31.33	28.63
CPI 1 Index	0.91	1.04	1.01	1.04	1.09
CPI 2 Index	1.01	1.14	1.15	1.10	1.15
CPI 3 Index	1.07	1.07	1.06	1.03	1.11
Prist/Phytane	2.11	2.02	1.69	1.92	2.02
Prist/nC17	0.45	0.60	0.60	0.73	0.56
Phytane/nC18	0.23	0.30	0.37	0.36	0.29

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

Job Number : 1602

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

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



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

GEOCHEM SAMPLE NUMBER	048A	049A	050A	051A	052A
DEPTH	1494.00	1495.00	1496.00	1497.00	1498.00
SAMPLE TYPE	CO	CO	CO	CO	CO
nC15	8.33	1.13	0.62	8.60	6.29
nC16	9.28	2.79	3.43	11.89	9.23
nC17	9.83	6.10	7.17	12.80	10.14
nC18	8.53	7.76	8.41	12.80	10.14
nC19	7.71	8.76	8.78	12.35	10.00
nC20	7.65	9.36	8.35	9.97	8.88
nC21	7.10	8.43	8.35	8.69	8.74
nC22	6.89	8.10	8.35	5.94	8.04
nC23	6.28	7.96	7.60	5.30	6.29
nC24	5.60	7.03	6.98	4.12	4.90
nC25	4.51	6.64	6.23	2.74	5.03
nC26	3.69	5.11	5.17	1.55	3.43
nC27	3.07	5.18	5.17	1.19	2.66
nC28	2.87	4.11	3.80	0.73	1.75
nC29	2.66	3.52	3.49	0.55	1.47
nC30	1.50	2.46	2.55	0.27	0.91
nC31	1.71	1.99	1.93	0.18	0.70
nC32	1.02	1.33	1.37	0.09	0.49
nC33	0.82	1.13	1.12	0.09	0.42
nC34	0.61	0.73	0.75	0.09	0.28
nC35	0.34	0.40	0.37	0.05	0.21
Paraffin	58.51	63.16	65.09	68.37	73.75
Isoprenoid	6.07	3.44	3.93	8.19	6.39
Naphthene	35.42	33.40	30.98	23.44	19.86
CPI 1 Index	0.99	1.06	1.04	1.14	1.08
CPI 2 Index	1.10	1.13	1.11	1.23	1.20
CPI 3 Index	0.94	1.12	1.15	1.04	1.03
Prist/Phytane	1.92	1.56	1.42	2.20	1.64
Prist/nC17	0.69	0.54	0.50	0.64	0.53
Phytane/nC18	0.42	0.27	0.30	0.29	0.32

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

Job Number : 1602

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

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



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

GEOCHEM SAMPLE NUMBER	053A	054A	055A	056A	057A
DEPTH	1499.00	1500.00	1501.00	1502.00	1503.00
SAMPLE TYPE	CO	CO	CO	CO	CO
nC15	6.30	2.63	3.47	8.69	6.29
nC16	7.63	4.91	7.16	10.88	9.79
nC17	7.86	7.54	10.34	10.96	12.82
nC18	7.80	8.53	10.56	10.81	12.24
nC19	6.94	10.24	10.78	10.20	11.31
nC20	6.76	8.89	10.12	8.99	10.72
nC21	7.63	9.74	8.27	7.33	9.44
nC22	6.47	8.68	7.53	6.27	8.28
nC23	6.82	7.54	6.94	5.90	6.29
nC24	5.78	6.69	5.69	4.61	3.61
nC25	4.68	5.90	5.17	4.16	3.50
nC26	5.20	4.13	3.55	2.65	2.33
nC27	4.62	3.34	3.18	2.34	1.05
nC28	3.76	2.85	2.14	1.89	0.93
nC29	3.12	2.77	1.92	1.44	0.58
nC30	2.54	1.64	1.26	0.83	0.47
nC31	2.14	1.14	0.66	0.76	0.23
nC32	1.45	0.92	0.59	0.45	0.12
nC33	1.21	0.85	0.30	0.38	0.00
nC34	0.81	0.71	0.22	0.30	0.00
nC35	0.46	0.36	0.15	0.15	0.00
Paraffin	56.19	74.95	67.84	68.44	64.08
Isoprenoid	5.59	3.89	5.06	5.43	6.42
Naphthene	38.23	21.16	27.10	26.13	29.50
CPI 1 Index	1.05	1.06	1.06	1.08	1.08
CPI 2 Index	0.98	1.12	1.16	1.18	1.06
CPI 3 Index	1.03	0.96	1.12	1.03	0.64
Prist/Phytane	1.57	1.61	1.81	1.76	1.46
Prist/nC17	0.77	0.42	0.46	0.46	0.46
Phytane/nC18	0.50	0.23	0.25	0.27	0.33

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

Job Number : 1602

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

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



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

GEOCHEM SAMPLE NUMBER	058A	059A	060A	061A	062A
DEPTH	1504.00	1505.00	1506.00	1507.00	1508.00
SAMPLE TYPE	CO	CO	CO	CO	CO
nC15	9.41	3.03	6.65	7.46	7.84
nC16	10.49	6.51	9.04	9.95	9.45
nC17	10.64	7.78	10.56	8.67	10.15
nC18	10.25	8.60	8.68	9.74	9.94
nC19	9.18	8.47	8.68	7.82	9.73
nC20	7.86	8.47	7.52	7.89	8.47
nC21	7.48	7.65	7.01	7.68	7.70
nC22	6.09	7.14	6.87	6.33	6.93
nC23	5.47	6.57	6.36	5.97	6.44
nC24	4.70	6.19	4.92	5.19	5.74
nC25	4.01	5.56	4.63	4.55	4.48
nC26	3.32	4.68	3.98	4.12	3.36
nC27	2.85	4.36	3.54	3.55	2.94
nC28	2.08	3.60	3.11	3.06	2.31
nC29	1.93	3.35	2.46	2.49	1.75
nC30	1.31	2.53	2.02	1.78	1.05
nC31	1.08	1.90	1.37	1.35	0.77
nC32	0.69	1.26	0.87	0.78	0.35
nC33	0.54	1.14	0.72	0.71	0.35
nC34	0.39	0.76	0.65	0.57	0.21
nC35	0.23	0.44	0.36	0.36	0.07
Paraffin	64.72	53.11	60.90	60.78	58.21
Isoprenoid	6.64	4.40	5.64	6.00	5.54
Naphthene	28.64	42.50	33.47	33.22	36.25
CPI 1 Index	1.06	1.01	1.03	1.04	1.03
CPI 2 Index	1.10	1.07	1.03	1.04	1.10
CPI 3 Index	1.06	1.05	1.00	0.99	1.04
Prist/Phytane	2.09	1.67	1.84	1.73	1.96
Prist/nC17	0.65	0.67	0.57	0.72	0.62
Phytane/nC18	0.32	0.36	0.38	0.37	0.32

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

Job Number : 1602

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

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



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

GEOCHEM SAMPLE NUMBER	063A	064A	065A	066A	067A
DEPTH	1509.00	1510.00	1511.00	1512.00	1513.00
SAMPLE TYPE	CO	CO	CO	CO	CO
nC15	8.13	5.49	8.51	8.10	4.73
nC16	10.09	8.44	10.17	11.66	8.96
nC17	11.82	10.59	12.15	11.01	10.49
nC18	10.32	9.95	9.50	9.47	8.45
nC19	10.02	9.95	11.49	9.64	9.25
nC20	10.62	8.68	8.18	8.50	9.47
nC21	7.38	8.04	7.36	7.29	8.01
nC22	6.93	8.04	7.44	6.64	6.63
nC23	5.72	6.29	6.12	6.64	6.85
nC24	4.37	4.70	4.05	5.75	6.70
nC25	4.29	5.33	3.80	4.86	5.90
nC26	2.64	4.14	2.81	3.56	4.01
nC27	2.41	2.71	2.64	2.11	2.99
nC28	1.73	2.23	1.65	1.78	2.18
nC29	1.28	1.67	1.40	1.05	1.89
nC30	0.90	1.11	0.91	0.57	1.24
nC31	0.60	0.96	0.66	0.49	1.02
nC32	0.30	0.64	0.41	0.32	0.44
nC33	0.23	0.48	0.33	0.32	0.36
nC34	0.15	0.32	0.25	0.16	0.29
nC35	0.08	0.24	0.17	0.08	0.15
Paraffin	58.53	68.30	75.02	61.23	53.20
Isoprenoid	7.18	6.20	8.18	6.25	5.54
Naphtene	34.29	25.50	16.80	32.52	41.26
CPI 1 Index	1.04	1.02	1.07	1.02	1.05
CPI 2 Index	1.22	1.09	1.19	1.05	1.17
CPI 3 Index	1.10	0.85	1.19	0.79	0.96
Prist/Phytane	2.79	1.71	2.00	1.80	2.18
Prist/nC17	0.76	0.54	0.60	0.60	0.68
Phytane/nC18	0.31	0.34	0.38	0.38	0.39

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

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

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

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

GEOCHEM SAMPLE NUMBER	068A	069A	070A	071A	072A
DEPTH	1514.00	1515.00	1516.00	1517.00	1518.00
SAMPLE TYPE	CO	CO	CO	CO	CO
nC15	9.10	4.59	1.83	5.78	6.81
nC16	10.34	9.76	3.28	9.30	8.48
nC17	10.49	10.83	5.05	10.61	9.19
nC18	9.25	13.37	5.90	9.88	9.25
nC19	8.96	12.20	6.29	9.08	7.84
nC20	7.50	10.15	6.68	8.20	7.52
nC21	6.92	10.63	7.34	7.54	7.71
nC22	6.12	9.27	8.72	6.88	6.81
nC23	5.61	5.17	8.52	6.30	6.43
nC24	4.73	3.51	8.58	5.42	4.82
nC25	4.08	3.22	7.99	4.83	5.33
nC26	3.35	2.05	6.23	4.10	4.50
nC27	3.42	1.76	6.16	3.29	3.73
nC28	2.77	1.07	4.72	2.56	3.34
nC29	2.40	0.88	4.32	2.12	2.31
nC30	1.75	0.49	2.88	1.46	1.86
nC31	1.38	0.39	2.23	1.02	1.61
nC32	0.73	0.29	1.25	0.66	0.96
nC33	0.58	0.20	1.11	0.51	0.84
nC34	0.36	0.10	0.66	0.29	0.45
nC35	0.15	0.10	0.26	0.15	0.19
Paraffin	56.50	63.08	55.07	66.76	63.77
Isoprenoid	6.05	10.95	2.27	5.57	6.11
Naphtene	37.45	25.97	42.66	27.66	30.12
CPI 1 Index	1.05	1.07	1.03	1.03	1.09
CPI 2 Index	1.10	1.24	1.15	1.06	1.06
CPI 3 Index	1.12	1.13	1.13	0.99	0.95
Prist/Phytane	2.06	3.24	1.86	2.08	1.81
Prist/nC17	0.69	1.23	0.53	0.53	0.67
Phytane/nC18	0.38	0.31	0.24	0.27	0.37

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

Job Number : 1602

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

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

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



GEOCHEM SAMPLE NUMBER	073A	074A	075A	076A	077A
DEPTH	1519.00	1520.00	1521.00	1522.00	1523.00
SAMPLE TYPE	CO	CO	CO	CO	CO
nC15	4.92	8.41	4.07	9.70	9.29
nC16	7.81	10.96	9.30	12.60	10.50
nC17	9.13	9.23	11.62	11.15	10.98
nC18	9.19	9.98	12.49	10.47	10.02
nC19	9.13	9.68	13.85	10.21	8.81
nC20	7.88	7.28	9.20	8.94	8.33
nC21	7.81	7.81	9.10	7.74	7.21
nC22	7.42	7.06	7.55	6.89	7.05
nC23	6.50	6.53	6.30	5.19	5.61
nC24	5.71	4.88	4.84	4.51	5.13
nC25	5.12	4.20	3.58	3.49	4.01
nC26	3.81	3.45	2.42	2.64	3.37
nC27	3.74	3.00	1.94	1.87	2.80
nC28	2.82	1.95	1.26	1.19	2.08
nC29	2.82	1.80	0.97	1.11	1.68
nC30	1.90	1.13	0.58	0.68	1.28
nC31	1.51	0.83	0.39	0.60	0.80
nC32	0.98	0.53	0.19	0.34	0.48
nC33	0.92	0.60	0.19	0.26	0.24
nC34	0.59	0.45	0.10	0.26	0.24
nC35	0.26	0.23	0.05	0.17	0.08
Paraffin	61.86	59.17	64.51	63.48	68.05
Isoprenoid	5.81	6.40	6.19	6.54	5.94
Naphtene	32.33	34.43	29.30	29.98	26.01
CPI 1 Index	1.05	1.10	1.09	1.00	0.97
CPI 2 Index	1.16	1.13	1.15	1.12	1.04
CPI 3 Index	1.13	1.11	1.05	0.98	1.03
Prist/Phytane	1.86	1.67	2.00	2.03	2.11
Prist/nC17	0.67	0.73	0.55	0.62	0.54
Phytane/nC18	0.36	0.41	0.26	0.33	0.28

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

Job Number : 1602

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

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



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

GEOCHEM SAMPLE NUMBER	078A	079A	080A	081A	082A
DEPTH	1524.00	1525.00	1526.00	1527.00	1528.00
SAMPLE TYPE	CO	CO	CO	CO	CO
nC15	7.40	2.33	10.06	7.58	7.55
nC16	11.10	6.04	9.54	10.13	9.59
nC17	10.95	8.79	10.66	11.16	9.39
nC18	9.67	9.40	8.57	11.56	8.93
nC19	9.37	9.27	9.46	8.45	8.67
nC20	8.16	8.37	7.90	9.25	8.01
nC21	7.93	8.03	7.75	7.82	6.89
nC22	7.40	7.76	6.78	6.46	6.57
nC23	5.59	7.00	5.29	7.42	6.17
nC24	5.66	6.18	5.07	5.02	5.06
nC25	4.83	5.01	4.40	3.91	5.06
nC26	3.32	4.53	3.43	3.19	4.01
nC27	2.87	3.91	2.83	2.47	3.87
nC28	1.89	3.29	2.31	1.83	2.76
nC29	1.28	3.23	1.94	1.44	2.63
nC30	0.76	1.92	1.12	0.80	1.71
nC31	0.53	1.85	0.89	0.64	1.31
nC32	0.45	1.10	0.67	0.40	0.85
nC33	0.38	1.03	0.67	0.24	0.53
nC34	0.30	0.62	0.45	0.16	0.33
nC35	0.15	0.34	0.22	0.08	0.13
Paraffin	60.46	59.74	62.33	66.60	68.98
Isoprenoid	5.39	4.22	6.04	6.27	5.75
Napthene	34.16	36.04	31.63	27.14	25.27
CPI 1 Index	1.01	1.00	1.01	1.11	1.06
CPI 2 Index	1.15	1.09	1.09	1.07	1.17
CPI 3 Index	1.10	1.00	0.99	0.98	1.15
Prist/Phytane	1.74	1.78	2.17	2.19	2.02
Prist/nC17	0.52	0.52	0.62	0.58	0.59
Phytane/nC18	0.34	0.27	0.36	0.26	0.31

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

Job Number : 1602

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

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

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

GEOCHEM SAMPLE NUMBER	083A	084A	085A	086A	087A
DEPTH	1529.00	1530.00	1531.00	1532.00	1533.00
SAMPLE TYPE	CO	CO	CO	CO	CO
nC15	6.95	5.47	6.18	7.02	10.85
nC16	9.69	8.49	9.16	9.92	10.03
nC17	10.11	9.24	11.22	10.84	10.33
nC18	9.83	8.49	10.08	9.31	9.29
nC19	9.06	7.92	9.24	9.47	9.44
nC20	8.08	8.11	8.47	8.47	7.80
nC21	7.16	6.85	8.70	7.71	6.76
nC22	7.30	7.23	8.02	6.79	6.02
nC23	6.25	6.54	6.64	6.11	5.27
nC24	5.27	5.72	5.27	5.11	4.09
nC25	4.42	4.78	4.50	4.20	3.57
nC26	3.65	4.40	3.05	3.44	3.57
nC27	3.30	4.65	2.98	3.28	3.34
nC28	2.60	3.52	1.83	2.29	2.60
nC29	2.11	2.89	1.60	2.14	1.93
nC30	1.40	1.63	0.76	1.45	1.56
nC31	1.05	1.32	0.92	1.07	1.26
nC32	0.70	1.07	0.46	0.61	0.97
nC33	0.56	0.88	0.38	0.38	0.74
nC34	0.35	0.57	0.38	0.23	0.37
nC35	0.14	0.25	0.15	0.15	0.22
Paraffin	62.26	65.31	69.87	65.04	58.22
Isoprenoid	5.68	4.93	6.03	4.97	6.75
Naphthene	32.05	29.76	24.11	29.99	35.03
CPI 1 Index	1.00	0.99	1.09	1.05	1.02
CPI 2 Index	1.07	1.09	1.28	1.12	1.01
CPI 3 Index	1.06	1.17	1.22	1.15	1.08
Prist/Phytane	1.77	2.24	1.83	2.03	1.84
Prist/nC17	0.58	0.56	0.50	0.47	0.73
Phytane/nC18	0.34	0.27	0.30	0.27	0.44

$$\text{C.P.I. 1} = \frac{1}{2} \frac{\text{C}_{21} + \text{C}_{23} + \text{C}_{25} + \text{C}_{27}}{\text{C}_{20} + \text{C}_{22} + \text{C}_{24} + \text{C}_{26}} + \frac{\text{C}_{21} + \text{C}_{23} + \text{C}_{25} + \text{C}_{27}}{\text{C}_{22} + \text{C}_{24} + \text{C}_{26} + \text{C}_{28}}$$

Job Number : 1602

$$\text{C.P.I. 2} = \frac{1}{2} \frac{\text{C}_{25} + \text{C}_{27} + \text{C}_{29} + \text{C}_{31}}{\text{C}_{24} + \text{C}_{26} + \text{C}_{28} + \text{C}_{30}} + \frac{\text{C}_{25} + \text{C}_{27} + \text{C}_{29} + \text{C}_{31}}{\text{C}_{26} + \text{C}_{28} + \text{C}_{30} + \text{C}_{32}}$$

$$\text{C.P.I. 3} = \frac{2x (\text{C}_{27})}{\text{C}_{26} + \text{C}_{28}}$$

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

GEOCHEM SAMPLE NUMBER	088A	089A	090A	091A	092A
DEPTH	1534.00	1535.00	1536.00	1537.00	1538.00
SAMPLE TYPE	CO	CO	CO	CO	CO
nC15	6.84	8.27	8.92	8.79	7.90
nC16	8.21	8.48	10.85	10.04	9.37
nC17	8.93	9.54	11.58	10.70	10.18
nC18	8.79	9.96	10.29	9.52	9.67
nC19	8.73	9.33	9.41	8.42	10.63
nC20	7.95	8.13	8.36	7.55	8.04
nC21	7.04	7.56	7.32	7.47	6.79
nC22	6.38	7.00	6.91	6.30	7.75
nC23	6.06	6.86	5.79	5.71	5.68
nC24	5.02	4.95	4.74	4.91	5.17
nC25	4.76	4.38	3.78	4.18	4.43
nC26	3.65	3.67	3.22	3.59	3.54
nC27	3.97	2.90	2.81	3.37	3.10
nC28	3.26	2.19	1.69	2.64	1.77
nC29	3.06	2.12	1.69	2.12	1.70
nC30	2.28	1.55	0.88	1.54	1.11
nC31	1.82	1.06	0.72	1.17	1.11
nC32	1.30	0.85	0.48	0.81	0.66
nC33	0.98	0.57	0.32	0.59	0.74
nC34	0.65	0.42	0.16	0.37	0.44
nC35	0.33	0.21	0.08	0.22	0.22
Paraffin	56.66	63.37	65.27	62.39	65.11
Isoprenoid	5.57	5.96	5.88	5.62	6.54
Naphthene	37.76	30.68	28.86	31.99	28.35
CPI 1 Index	1.07	1.07	1.02	1.06	0.96
CPI 2 Index	1.13	1.06	1.15	1.06	1.17
CPI 3 Index	1.15	0.99	1.15	1.08	1.17
Prist/Phytane	1.75	1.89	2.11	2.08	1.72
Prist/nC17	0.70	0.64	0.53	0.57	0.62
Phytane/nC18	0.41	0.33	0.28	0.31	0.38

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

Job Number : 1602

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

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

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

GEOCHEM SAMPLE NUMBER	093A	094A	095A	096A	097A
DEPTH	1539.00	1540.00	1541.00	1542.00	1543.00
SAMPLE TYPE	CO	CO	CO	CO	CO
nC15	9.99	7.78	8.48	7.11	7.87
nC16	9.71	9.75	10.50	9.44	9.58
nC17	8.58	9.55	11.28	10.28	10.47
nC18	9.21	9.96	9.95	10.14	9.87
nC19	8.50	9.89	9.25	8.94	9.65
nC20	8.01	8.87	7.47	8.52	8.09
nC21	7.16	7.30	6.45	7.61	8.24
nC22	6.80	6.75	6.38	7.46	6.76
nC23	5.24	6.41	5.60	5.85	6.38
nC24	5.10	5.25	4.67	5.00	5.20
nC25	4.32	4.64	4.12	4.23	4.38
nC26	3.47	3.34	3.34	3.45	3.34
nC27	3.19	2.93	3.19	3.03	2.75
nC28	2.55	2.32	2.33	2.32	1.86
nC29	2.20	1.77	2.41	2.04	1.63
nC30	1.70	1.09	1.63	1.34	1.04
nC31	1.42	0.89	1.17	1.20	1.04
nC32	0.99	0.68	0.70	0.77	0.74
nC33	0.85	0.34	0.54	0.63	0.59
nC34	0.64	0.27	0.39	0.42	0.30
nC35	0.35	0.20	0.16	0.21	0.22
Paraffin	51.23	67.43	57.77	62.25	69.47
Isoprenoid	6.10	5.47	6.78	5.04	5.98
Naphtlene	42.67	27.09	35.44	32.71	24.55
CPI 1 Index	0.98	1.04	1.02	0.99	1.10
CPI 2 Index	1.07	1.11	1.13	1.10	1.13
CPI 3 Index	1.06	1.04	1.12	1.05	1.06
Prist/Phytane	1.75	2.22	2.15	1.95	1.90
Prist/nC17	0.88	0.59	0.71	0.52	0.54
Phytane/nC18	0.47	0.25	0.38	0.27	0.30

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

Job Number : 1602

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

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

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

GEOCHEM SAMPLE NUMBER	098A	099	100A	101A	102A
DEPTH	1544.00	1545.0	1545.5	1546.0	1546.8
SAMPLE TYPE	CO	SWC	SWC	SWC	SWC
nC15	8.85	7.40	11.93	11.31	11.85
nC16	11.47	10.69	12.45	13.44	11.85
nC17	12.47	11.76	12.27	11.96	11.12
nC18	11.17	10.44	10.47	9.08	11.53
nC19	10.46	9.38	8.15	9.08	9.09
nC20	8.65	8.63	7.12	7.88	7.63
nC21	7.85	6.83	6.01	7.32	6.17
nC22	7.24	7.07	5.41	6.39	5.52
nC23	5.33	5.59	4.38	6.12	5.44
nC24	4.12	4.77	3.78	4.36	4.38
nC25	3.22	3.70	3.35	3.71	3.41
nC26	2.52	3.13	2.92	2.60	3.17
nC27	2.01	2.88	2.40	1.95	2.44
nC28	1.41	1.81	1.97	1.30	1.70
nC29	1.11	1.97	2.06	1.11	1.38
nC30	0.50	1.23	1.46	0.65	1.06
nC31	0.60	0.99	1.29	0.74	0.89
nC32	0.30	0.66	0.77	0.56	0.49
nC33	0.40	0.49	0.77	0.28	0.41
nC34	0.20	0.33	0.60	0.14	0.32
nC35	0.10	0.25	0.43	0.05	0.16
Paraffin	70.55	64.00	49.98	68.03	70.40
Isoprenoid	6.88	5.26	4.03	6.12	8.46
Naphthene	22.57	30.74	45.99	25.85	21.14
CPI 1 Index	1.01	0.97	0.99	1.10	1.01
CPI 2 Index	1.14	1.13	1.09	1.16	1.03
CPI 3 Index	1.03	1.17	0.98	1.00	1.00
Prist/Phytane	2.23	2.03	1.76	1.85	2.15
Prist/nC17	0.54	0.47	0.42	0.49	0.74
Phytane/nC18	0.27	0.26	0.28	0.35	0.33

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

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

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

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

GEOCHEM SAMPLE NUMBER	103A	104	105	106	107A
DEPTH	1547.5	1548.0	1548.5	1551.0	1551.5
SAMPLE TYPE	SWC	SWC	SWC	SWC	SWC
nC15	9.80	10.17	10.43	10.83	9.96
nC16	10.47	9.75	10.36	9.96	10.67
nC17	10.39	9.54	10.00	10.17	10.10
nC18	10.39	8.58	9.29	9.67	8.95
nC19	9.28	7.75	7.71	8.50	7.81
nC20	8.09	6.92	6.29	6.18	7.09
nC21	7.72	6.50	6.07	6.69	6.88
nC22	6.31	6.22	4.93	6.03	5.37
nC23	5.49	5.67	4.14	5.09	5.95
nC24	4.68	5.74	3.43	4.51	4.87
nC25	3.49	4.56	3.14	4.22	4.15
nC26	2.60	4.36	2.50	3.27	3.44
nC27	2.45	3.67	2.43	3.13	3.37
nC28	1.86	2.90	1.86	2.83	2.79
nC29	1.86	2.49	1.86	2.54	2.79
nC30	1.26	1.66	1.43	1.60	1.79
nC31	1.04	1.24	1.57	1.38	1.22
nC32	1.04	0.76	1.93	1.02	1.07
nC33	0.74	0.76	3.07	0.80	0.79
nC34	0.52	0.48	3.79	1.31	0.57
nC35	0.52	0.28	3.79	0.29	0.36
Paraffin	63.57	61.87	64.97	69.81	78.83
Isoprenoid	5.29	4.96	5.94	7.36	6.21
Napththene	31.15	33.16	29.10	22.83	14.96
CPI 1 Index	1.06	0.97	1.08	1.05	1.11
CPI 2 Index	1.08	1.03	1.07	1.11	1.08
CPI 3 Index	1.10	1.01	1.11	1.02	1.08
Prist/Phytane	2.03	2.05	1.98	2.22	2.24
Prist/nC17	0.54	0.57	0.61	0.71	0.54
Phytane/nC18	0.26	0.31	0.33	0.34	0.27

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

Job Number : 1602

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

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



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

GEOCHEM SAMPLE NUMBER	108A	109	110	111	112
DEPTH	1552.0	1555.0	1557.0	1557.5	1558.0
SAMPLE TYPE	SWC	SWC	SWC	SWC	SWC
nC15	9.49	1.13	8.78	11.30	11.89
nC16	10.44	3.91	6.94	10.51	12.84
nC17	10.22	10.09	6.88	10.66	11.61
nC18	9.56	16.52	7.15	9.16	9.90
nC19	8.98	18.16	6.67	7.74	8.94
nC20	7.45	11.73	5.79	6.40	6.76
nC21	7.45	8.83	5.31	5.21	6.37
nC22	5.99	6.68	5.24	5.53	5.14
nC23	6.13	4.67	5.45	5.45	4.85
nC24	5.40	3.66	4.83	4.90	3.90
nC25	4.23	3.28	5.04	4.50	4.28
nC26	3.36	2.65	4.08	3.63	3.43
nC27	3.21	2.14	4.29	3.63	2.47
nC28	2.19	1.39	4.36	3.00	1.81
nC29	1.90	1.26	4.42	2.61	1.81
nC30	1.17	1.01	3.68	1.74	1.33
nC31	1.02	0.76	3.81	1.50	0.95
nC32	0.58	0.76	2.52	0.87	0.57
nC33	0.58	0.63	2.04	0.79	0.57
nC34	0.44	0.50	1.57	0.55	0.38
nC35	0.22	0.25	1.16	0.32	0.19
Paraffin	75.44	56.56	64.89	60.40	65.32
Isoprenoid	8.04	4.21	3.09	4.29	5.97
Naphtlene	16.52	39.23	32.02	35.31	28.71
CPI 1 Index	1.09	1.04	1.05	1.01	1.10
CPI 2 Index	1.14	1.07	1.12	1.12	1.12
CPI 3 Index	1.16	1.06	1.02	1.10	0.95
Prist/Phytane	1.98	1.03	1.33	2.10	2.20
Prist/nC17	0.69	0.38	0.40	0.45	0.54
Phytane/nC18	0.37	0.22	0.29	0.25	0.29

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

Job Number : 1602

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

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



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

GEOCHEM SAMPLE NUMBER	113	114A	115	116	117
DEPTH	1559.0	1560.0	1561.0	1562.0	1562.5
SAMPLE TYPE	SWC	SWC	SWC	SWC	SWC
nC15	9.76	14.03	9.68	8.77	13.33
nC16	11.57	15.62	8.74	8.07	11.03
nC17	14.25	13.80	8.40	8.14	11.31
nC18	11.96	11.86	7.06	8.07	10.30
nC19	8.70	9.58	6.05	7.79	9.66
nC20	7.56	6.96	5.58	7.09	8.09
nC21	6.98	5.70	5.78	7.93	7.26
nC22	5.64	4.33	6.52	7.72	5.70
nC23	4.30	3.65	6.45	5.54	5.33
nC24	4.11	3.08	5.38	5.19	3.95
nC25	3.35	2.74	4.91	4.42	3.22
nC26	2.68	1.94	4.30	3.79	2.76
nC27	2.58	1.82	3.83	3.65	2.57
nC28	1.82	1.25	3.43	2.67	1.66
nC29	1.72	1.37	3.29	3.23	1.47
nC30	1.05	0.68	2.62	2.04	0.74
nC31	0.86	0.80	2.15	2.53	0.64
nC32	0.57	0.34	1.68	1.19	0.46
nC33	0.29	0.23	1.75	1.05	0.28
nC34	0.19	0.11	1.41	0.70	0.18
nC35	0.05	0.11	1.01	0.42	0.05
Paraffin	65.61	51.99	62.08	66.06	63.73
Isoprenoid	6.78	5.45	4.34	5.19	6.09
Naphtene	27.61	42.56	33.58	28.74	30.18
CPI 1 Index	1.03	1.08	1.02	1.01	1.10
CPI 2 Index	1.14	1.28	1.04	1.22	1.14
CPI 3 Index	1.15	1.14	0.99	1.13	1.17
Prist/Phytane	2.27	2.41	2.15	1.67	2.06
Prist/nC17	0.50	0.54	0.57	0.60	0.57
Phytane/nC18	0.26	0.26	0.31	0.37	0.30

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

Job Number : 1602

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

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

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

GEOCHEM SAMPLE NUMBER	118	119	120	121	122
DEPTH	1563.0	1564.0	1564.5	1565.0	1565.5
SAMPLE TYPE	SWC	SWC	SWC	SWC	SWC
nC15	15.78	14.05	15.49	7.87	14.74
nC16	15.56	13.62	15.60	6.49	14.44
nC17	14.91	10.23	15.17	6.62	14.54
nC18	11.24	9.80	13.58	6.99	12.62
nC19	9.83	7.03	8.70	6.99	9.79
nC20	8.00	5.72	7.75	6.68	8.28
nC21	6.27	4.25	5.94	7.05	6.46
nC22	4.54	3.82	4.24	6.93	4.24
nC23	3.46	3.90	3.08	7.24	3.53
nC24	2.38	3.56	2.12	6.68	2.52
nC25	1.84	3.56	1.59	5.99	2.12
nC26	1.51	3.38	1.38	4.93	1.72
nC27	1.40	3.30	1.17	4.37	1.41
nC28	0.97	3.47	1.06	4.87	0.91
nC29	0.76	3.12	0.95	3.31	0.91
nC30	0.54	2.17	0.42	2.37	0.61
nC31	0.43	1.82	0.74	2.00	0.50
nC32	0.22	1.21	0.42	1.00	0.30
nC33	0.22	0.87	0.27	0.81	0.20
nC34	0.11	0.61	0.21	0.44	0.10
nC35	0.05	0.52	0.11	0.37	0.05
Paraffin	61.19	59.62	53.20	66.78	56.49
Isoprenoid	7.07	3.93	8.69	4.04	8.16
Naphtene	31.74	36.45	38.10	29.18	35.36
CPI 1 Index	1.08	0.98	1.05	1.02	1.12
CPI 2 Index	1.09	1.05	1.12	1.01	1.13
CPI 3 Index	1.13	0.96	0.96	0.89	1.08
Prist/Phytane	2.45	1.53	2.76	2.03	2.04
Prist/nC17	0.55	0.39	0.79	0.61	0.67
Phytane/nC18	0.30	0.27	0.32	0.29	0.38

$$\text{C.P.I. 1} = \frac{1}{2} \frac{\text{C}_{21} + \text{C}_{23} + \text{C}_{25} + \text{C}_{27}}{\text{C}_{20} + \text{C}_{22} + \text{C}_{24} + \text{C}_{26}} + \frac{\text{C}_{21} + \text{C}_{23} + \text{C}_{25} + \text{C}_{27}}{\text{C}_{22} + \text{C}_{24} + \text{C}_{26} + \text{C}_{28}}$$

Job Number : 1602

$$\text{C.P.I. 2} = \frac{1}{2} \frac{\text{C}_{25} + \text{C}_{27} + \text{C}_{29} + \text{C}_{31}}{\text{C}_{24} + \text{C}_{26} + \text{C}_{28} + \text{C}_{30}} + \frac{\text{C}_{25} + \text{C}_{27} + \text{C}_{29} + \text{C}_{31}}{\text{C}_{26} + \text{C}_{28} + \text{C}_{30} + \text{C}_{32}}$$

$$\text{C.P.I. 3} = \frac{2x (\text{C}_{27})}{\text{C}_{26} + \text{C}_{28}}$$

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

GEOCHEM SAMPLE NUMBER	123	124	125A	126	127A
DEPTH	1566.0	1566.5	1567.0	1567.5	1570.0
SAMPLE TYPE	SWC	SWC	SWC	SWC	SWC
nC15	10.83	13.55	14.27	16.09	10.19
nC16	11.40	13.74	11.84	15.65	9.33
nC17	11.24	11.96	11.31	13.26	9.33
nC18	10.41	12.52	10.25	12.83	8.97
nC19	8.76	10.37	9.09	8.91	8.39
nC20	7.93	7.76	7.19	6.52	7.53
nC21	7.60	6.36	6.45	5.65	6.81
nC22	5.70	4.67	5.71	3.80	6.53
nC23	4.96	4.02	4.65	3.26	5.60
nC24	4.05	3.08	3.81	2.07	5.38
nC25	3.47	2.80	3.59	2.28	4.45
nC26	2.56	1.87	2.85	1.52	3.95
nC27	2.31	1.50	2.22	1.52	3.16
nC28	2.89	1.12	1.80	1.09	2.65
nC29	1.74	1.12	1.59	1.41	2.30
nC30	1.16	0.93	0.95	0.98	1.58
nC31	1.16	0.65	0.85	0.98	1.72
nC32	0.58	0.56	0.53	0.87	0.72
nC33	0.58	0.47	0.53	0.54	0.72
nC34	0.33	0.47	0.32	0.43	0.43
nC35	0.33	0.47	0.21	0.33	0.29
Paraffin	62.47	59.88	56.28	61.58	56.23
Isoprenoid	5.01	6.83	5.35	6.43	4.32
Naphtlene	32.52	33.30	38.37	31.99	39.45
CPI 1 Index	1.06	1.10	1.03	1.21	0.97
CPI 2 Index	1.01	1.11	1.11	1.24	1.08
CPI 3 Index	0.85	1.00	0.95	1.17	0.96
Prist/Phytane	2.13	2.13	2.00	2.56	1.55
Prist/nC17	0.49	0.65	0.56	0.57	0.50
Phytane/nC18	0.25	0.29	0.31	0.23	0.34

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

Job Number : 1602

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

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

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

GEOCHEM SAMPLE NUMBER	128	129A	130A	131A	156A
DEPTH	1573.0	1628.0	1830.8	1850.9	1915.3
SAMPLE TYPE	SWC	SWC	SWC	SWC	SWC
nC15	7.57	10.67	6.69	11.09	13.55
nC16	10.09	8.57	8.22	10.28	12.23
nC17	11.89	8.87	11.18	9.24	10.81
nC18	12.52	9.07	12.06	10.51	11.09
nC19	12.43	8.57	10.42	8.66	9.19
nC20	9.64	5.28	9.98	6.47	7.58
nC21	8.47	4.69	7.35	4.97	6.16
nC22	6.76	3.59	6.03	3.46	4.74
nC23	5.50	3.99	3.95	3.46	4.08
nC24	4.05	3.29	3.07	3.35	3.70
nC25	3.33	2.79	3.29	3.46	3.03
nC26	2.52	3.29	2.85	2.89	2.65
nC27	1.71	4.09	2.85	3.46	2.18
nC28	1.53	3.29	2.41	5.08	2.09
nC29	0.63	4.39	2.41	3.35	1.71
nC30	0.27	3.29	2.08	2.31	1.33
nC31	0.27	3.89	1.97	2.54	1.14
nC32	0.27	4.99	1.32	1.62	0.95
nC33	0.18	1.79	0.77	1.62	0.76
nC34	0.18	1.00	0.66	1.27	0.57
nC35	0.18	0.60	0.44	0.92	0.47
Paraffin	54.39	75.70	47.97	30.71	36.90
Isoprenoid	4.95	4.68	6.52	2.62	3.46
Naphtlene	40.67	19.62	45.50	66.67	59.64
CPI 1 Index	1.05	1.08	1.00	0.99	1.00
CPI 2 Index	1.00	1.09	1.11	1.01	0.99
CPI 3 Index	0.84	1.24	1.08	0.87	0.92
Prist/Phytane	1.73	2.10	2.26	1.85	1.68
Prist/nC17	0.48	0.47	0.84	0.60	0.54
Phytane/nC18	0.27	0.22	0.35	0.29	0.32

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

Job Number : 1602

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

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



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

GEOCHEM SAMPLE NUMBER	132A	133A	134A	135A	136A
DEPTH	1942.3	2117.4	2141.2	2158.2	2184.6
SAMPLE TYPE	SWC	SWC	SWC	SWC	SWC
nC15	16.61	13.82	6.99	13.68	14.15
nC16	15.50	13.08	10.36	12.97	13.55
nC17	12.97	12.06	14.37	12.86	11.36
nC18	11.55	10.95	16.70	12.27	11.16
nC19	9.49	9.46	15.40	10.52	10.06
nC20	7.91	6.77	12.17	8.77	9.46
nC21	6.01	6.31	8.54	6.90	7.27
nC22	4.90	5.38	4.27	5.38	5.88
nC23	3.95	3.62	2.33	3.86	5.18
nC24	3.16	3.34	1.68	3.04	3.19
nC25	2.53	3.34	1.55	2.57	2.59
nC26	1.74	2.41	1.16	1.87	1.89
nC27	1.27	2.41	1.16	1.29	1.39
nC28	0.95	1.48	0.78	1.17	1.00
nC29	0.63	1.48	0.65	0.70	0.70
nC30	0.32	0.93	0.39	0.58	0.50
nC31	0.24	1.30	0.65	0.58	0.30
nC32	0.08	0.83	0.39	0.35	0.20
nC33	0.08	0.46	0.26	0.23	0.10
nC34	0.08	0.37	0.13	0.23	0.05
nC35	0.04	0.19	0.06	0.18	0.02
Paraffin	64.96	48.47	45.51	53.42	84.37
Isoprenoid	2.67	5.44	9.84	4.43	3.03
Naphthene	32.37	46.09	44.65	42.15	12.61
CPI 1 Index	1.03	1.06	1.21	1.02	1.09
CPI 2 Index	1.13	1.28	1.24	1.03	1.07
CPI 3 Index	0.94	1.24	1.20	0.85	0.97
Prist/Phytane	2.71	2.03	2.21	1.96	1.40
Prist/nC17	0.23	0.62	1.04	0.43	0.18
Phytane/nC18	0.10	0.34	0.40	0.23	0.13

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

Job Number : 1602

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

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



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

GEOCHEM SAMPLE NUMBER	157A	137A	158	138A	159A
DEPTH	2213.7	2229.1	2230.0	2276.8	2582.5
SAMPLE TYPE	SWC	SWC	CT	SWC	SWC
nC15	13.60	16.31	4.54	15.05	25.16
nC16	11.33	16.79	5.09	12.00	15.09
nC17	10.88	15.19	6.42	12.21	9.64
nC18	11.33	15.19	8.08	14.61	9.22
nC19	9.82	12.15	6.75	11.78	7.13
nC20	8.31	8.47	6.97	7.42	5.87
nC21	6.19	4.96	7.03	5.23	4.19
nC22	4.23	2.72	7.30	4.36	4.19
nC23	3.47	1.28	6.59	3.27	2.93
nC24	2.72	0.96	6.03	2.84	2.93
nC25	2.57	1.12	5.26	2.40	2.93
nC26	2.42	0.96	4.93	1.96	1.68
nC27	2.27	0.96	5.53	1.53	2.10
nC28	1.81	0.64	4.76	1.31	1.26
nC29	1.51	0.64	4.21	1.31	1.26
nC30	1.81	0.32	3.15	0.65	0.84
nC31	1.66	0.48	2.21	0.87	0.84
nC32	1.06	0.48	2.32	0.44	0.84
nC33	1.21	0.16	1.44	0.33	0.63
nC34	1.06	0.16	0.89	0.22	0.42
nC35	0.76	0.08	0.50	0.22	0.84
Paraffin	30.31	39.55	70.07	47.94	29.54
Isoprenoid	3.75	8.73	2.21	3.03	2.97
Naphtene	65.93	51.72	27.72	49.03	67.49
CPI 1 Index	1.06	1.11	1.01	0.97	1.02
CPI 2 Index	1.02	1.22	1.02	1.15	1.30
CPI 3 Index	1.07	1.20	1.14	0.93	1.43
Prist/Phytane	1.83	2.21	1.11	1.90	1.67
Prist/nC17	0.74	1.00	0.26	0.34	0.65
Phytane/nC18	0.39	0.45	0.18	0.15	0.41

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

Job Number : 1602

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

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

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

GEOCHEM SAMPLE NUMBER	160A	161A	162A	163A	164A
DEPTH	2625.0	2634.0	2650.0	2662.0	2668.0
SAMPLE TYPE	SWC	SWC	SWC	SWC	SWC
nC15	9.53	12.59	16.34	21.12	12.51
nC16	11.07	14.82	18.98	19.07	14.41
nC17	8.76	12.18	13.85	15.14	15.17
nC18	10.59	12.79	12.60	14.21	18.39
nC19	7.51	10.86	8.59	9.53	10.43
nC20	6.74	8.22	6.09	5.05	6.07
nC21	5.20	7.11	4.57	3.18	3.98
nC22	4.72	8.12	3.46	2.99	3.03
nC23	4.52	3.55	2.22	1.87	2.09
nC24	4.81	2.54	2.22	1.50	2.09
nC25	4.81	1.83	2.08	1.31	2.65
nC26	3.95	1.32	1.52	1.12	1.52
nC27	3.46	0.91	1.52	0.75	1.52
nC28	3.18	0.81	1.11	0.56	1.14
nC29	2.98	0.51	1.11	0.56	1.33
nC30	2.21	0.51	0.83	0.28	0.57
nC31	1.73	0.51	0.83	0.37	1.14
nC32	1.06	0.41	0.69	0.65	0.57
nC33	1.06	0.20	0.55	0.37	0.76
nC34	1.15	0.15	0.42	0.28	0.47
nC35	0.96	0.05	0.42	0.09	0.19
Paraffin	24.45	65.97	35.17	56.14	35.80
Isoprenoid	1.77	4.55	3.70	6.51	3.46
Naphtene	73.78	29.47	61.13	37.36	60.74
CPI 1 Index	0.99	0.86	1.02	0.91	1.06
CPI 2 Index	1.08	0.98	1.15	1.00	1.50
CPI 3 Index	0.97	0.86	1.16	0.89	1.14
Prist/Phytane	1.34	1.52	1.45	1.58	1.55
Prist/nC17	0.47	0.34	0.45	0.47	0.39
Phytane/nC18	0.29	0.21	0.34	0.32	0.21

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

Job Number : 1602

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

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

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

GEOCHEM SAMPLE NUMBER	165A	166A	167A	168A	169
DEPTH	2681.5	2685.0	2690.0	2719.0	2759.0
SAMPLE TYPE	SWC	SWC	SWC	SWC	SWC
nC15	20.87	4.23	18.64	10.07	12.05
nC16	19.09	10.59	15.71	11.66	11.14
nC17	13.52	14.01	13.32	14.24	11.45
nC18	12.92	21.66	11.19	15.59	15.21
nC19	7.16	11.40	8.79	15.10	9.79
nC20	5.17	7.98	6.66	10.44	6.93
nC21	3.58	4.89	4.26	7.12	4.52
nC22	2.98	3.91	3.46	4.79	4.07
nC23	2.39	3.58	2.40	2.46	3.31
nC24	1.79	2.77	2.13	1.72	3.61
nC25	1.99	2.44	2.13	1.47	3.16
nC26	1.39	1.95	1.86	0.98	2.26
nC27	1.39	1.95	1.86	1.11	1.96
nC28	1.59	1.47	1.33	0.61	2.41
nC29	1.19	1.95	1.60	0.61	1.81
nC30	0.80	0.98	0.80	0.61	1.20
nC31	0.80	1.47	1.33	0.49	1.36
nC32	0.20	0.65	0.80	0.43	0.90
nC33	0.40	0.81	0.67	0.25	0.90
nC34	0.40	0.65	0.53	0.12	0.90
nC35	0.40	0.65	0.53	0.12	1.05
Paraffin	29.06	28.17	27.64	36.70	26.54
Isoprenoid	2.48	2.80	3.17	5.63	1.92
Naphthene	68.46	69.04	69.19	57.67	71.54
CPI 1 Index	1.01	1.02	0.98	1.09	0.91
CPI 2 Index	1.16	1.32	1.29	1.17	1.05
CPI 3 Index	0.93	1.14	1.17	1.38	0.84
Prist/Phytane	1.53	1.26	1.69	1.78	1.40
Prist/nC17	0.38	0.40	0.54	0.69	0.37
Phytane/nC18	0.26	0.20	0.38	0.35	0.20

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

Job Number : 1602

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

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

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

GEOCHEM SAMPLE NUMBER	170A	171A	172A	173A	174A
DEPTH	2778.0	2813.0	2830.0	2910.0	3063.0
SAMPLE TYPE	SWC	SWC	SWC	SWC	SWC
nC15	7.95	26.34	13.18	6.78	15.58
nC16	9.86	18.21	13.18	9.32	13.91
nC17	11.03	12.20	9.17	10.59	11.13
nC18	8.27	13.50	11.75	14.12	18.78
nC19	7.85	7.32	6.88	10.45	12.52
nC20	5.94	4.39	6.59	9.46	6.82
nC21	5.51	2.60	4.58	5.93	3.48
nC22	5.30	1.95	4.01	5.51	2.92
nC23	5.20	1.79	3.44	4.10	2.64
nC24	5.41	1.79	3.44	3.25	2.09
nC25	4.56	1.46	3.44	3.25	2.09
nC26	4.88	1.46	2.87	2.54	1.25
nC27	4.77	1.46	3.72	2.12	1.11
nC28	3.50	1.14	2.29	2.97	1.67
nC29	2.12	1.30	2.01	2.54	0.83
nC30	1.80	0.65	2.58	1.84	0.56
nC31	0.85	0.98	1.72	1.98	0.83
nC32	0.85	0.49	1.43	1.27	0.56
nC33	1.38	0.33	1.15	0.85	0.42
nC34	1.80	0.33	1.15	0.56	0.42
nC35	1.17	0.33	1.43	0.56	0.42
Paraffin	26.19	49.44	21.27	24.61	33.33
Isoprenoid	2.03	3.13	1.77	2.92	1.76
Naphtene	71.79	47.43	76.97	72.47	64.90
CPI 1 Index	0.99	0.96	1.05	0.91	0.94
CPI 2 Index	0.95	1.21	1.08	1.04	1.04
CPI 3 Index	1.14	1.13	1.44	0.77	0.76
Prist/Phytane	1.35	1.60	1.23	1.63	1.53
Prist/nC17	0.40	0.32	0.50	0.69	0.29
Phytane/nC18	0.40	0.18	0.32	0.32	0.11

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

Job Number : 1602

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

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



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

GEOCHEM SAMPLE NUMBER	175A	176A	177A	178A	179A
DEPTH	3100.0	3269.0	3302.0	3366.0	3373.5
SAMPLE TYPE	SWC	SWC	SWC	SWC	SWC
nC15	15.62	13.27	8.14	17.52	10.21
nC16	18.83	13.81	10.73	18.00	10.21
nC17	14.78	9.91	11.34	13.14	8.99
nC18	12.55	16.81	15.66	14.84	14.58
nC19	8.37	7.08	11.10	9.25	10.09
nC20	5.86	5.66	7.28	5.84	7.41
nC21	4.18	3.19	6.66	6.33	5.59
nC22	2.93	3.72	5.18	3.16	5.10
nC23	2.51	3.36	4.44	2.68	4.13
nC24	2.23	3.36	3.82	1.70	3.77
nC25	1.81	3.01	2.96	1.22	3.16
nC26	1.39	2.12	2.47	0.97	2.55
nC27	1.39	2.65	2.22	0.97	2.43
nC28	1.95	2.30	1.73	0.97	2.43
nC29	1.26	2.30	1.97	1.22	2.79
nC30	0.70	1.24	0.99	0.49	1.82
nC31	0.98	1.59	1.23	0.73	1.70
nC32	0.98	1.42	1.11	0.24	1.09
nC33	0.56	1.42	0.37	0.24	0.85
nC34	0.56	1.06	0.25	0.24	0.73
nC35	0.56	0.71	0.37	0.24	0.36
Paraffin	27.98	21.61	33.90	33.23	28.41
Isoprenoid	3.36	1.53	2.55	3.31	1.69
Naphtlene	68.67	76.86	63.55	63.46	69.90
CPI 1 Index	0.98	0.94	1.05	1.30	0.96
CPI 2 Index	0.98	1.20	1.13	1.27	1.12
CPI 3 Index	0.83	1.20	1.06	1.00	0.98
Prist/Phytane	1.61	1.22	1.03	1.73	1.33
Prist/nC17	0.50	0.39	0.34	0.48	0.38
Phytane/nC18	0.37	0.19	0.24	0.25	0.17

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

Job Number : 1602

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

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



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

GEOCHEM SAMPLE NUMBER	180A
DEPTH	3396.0
SAMPLE TYPE	SWC
nC15	17.26
nC16	16.46
nC17	13.37
nC18	15.09
nC19	8.91
nC20	5.49
nC21	3.20
nC22	2.86
nC23	2.17
nC24	2.29
nC25	1.94
nC26	1.83
nC27	1.71
nC28	1.60
nC29	1.37
nC30	1.03
nC31	1.03
nC32	0.69
nC33	0.69
nC34	0.57
nC35	0.46
Paraffin	29.43
Isoprenoid	2.79
Naphthene	67.78
CPI 1 Index	0.89
CPI 2 Index	1.04
CPI 3 Index	1.00
Prist/Phytane	1.59
Prist/nC17	0.44
Phytane/nC18	0.24

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

Job Number : 1602

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

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

Table 11
METHYL PHENANTHRENE INDEX (1) AND (2)

SAMPLE NUMBER	DEPTH	% AREA	% HEIGHT	% AREA	% HEIGHT
1602-139	900	0.84	1.03	0.91	1.19
1602-140A	910	0.43	0.45	0.49	0.46
1602-141A	920	0.90	0.93	0.99	1.06
1602-142A	950	0.67	0.63	0.64	0.61
1602-143A	980	0.86	0.61	0.89	0.63
1602-144	1173.4	0.63	0.67	0.76	0.76
1602-145	1322.0	0.79	0.82	0.85	0.73
1602-146A	1365	0.69	0.61	0.82	0.71
1602-147A	1377.0	0.84	0.94	1.21	1.09
1602-148	1380	0.76	0.86	0.99	0.80
1602-149	1390	0.67	0.65	0.79	0.61
1602-150A	1400	0.74	0.69	0.79	0.74
1602-151A	1410	0.71	0.76	0.78	0.87
1602-152A	1415	0.67	0.74	0.72	0.87
1602-153A	1420	1.06	0.68	0.92	0.69
1602-154A	1425	0.63	0.70	0.74	0.81
1602-155A	1430	0.71	0.84	0.79	1.00
1602-001A	1444.00	0.79	0.93	0.86	1.04
1602-002A	1445.00	0.93	1.02	1.00	1.21
1602-003A	1446.00	0.84	0.79	0.87	0.87
1602-004A	1447.00	0.81	0.93	0.98	1.01
1602-005A	1448.00	0.83	0.90	0.90	1.00
1602-006A	1449.00	0.86	0.95	1.07	1.09
1602-007A	1450.00	0.82	0.92	0.89	1.17
1602-008A	1451.00	0.88	1.00	0.79	0.80
1602-009A	1452.00	0.74	0.86	0.86	0.98
1602-010A	1453.00	0.55	0.59	0.64	0.66
1602-011A	1454.00	0.77	0.78	0.84	0.84
1602-012A	1455.00	0.67	0.74	0.78	0.84
1602-013A	1456.00	0.75	0.84	0.82	1.00
1602-014A	1457.00	0.89	0.77	0.88	0.83
1602-015A	1458.00	0.92	0.96	0.95	1.03
1602-016	1459.00	0.67	0.83	0.79	0.96
1602-017A	1460.00	0.55	0.75	0.55	0.73
1602-018A	1461.00	0.53	0.93	0.66	1.12
1602-019A	1462.00	0.82	0.93	0.92	0.95
1602-020A	1463.00	0.69	0.69	0.83	0.71
1602-021A	1464.00	0.81	0.76	0.90	0.81
1602-022A	1466.00	0.56	0.55	0.66	0.57
1602-023A	1467.00	0.77	0.79	0.86	0.87
1602-024A	1468.00	0.79	0.94	0.51	0.99
1602-025A	1469.00	0.77	0.89	0.85	1.06
1602-026A	1470.00	0.77	0.73	0.81	0.84
1602-027A	1471.00	0.75	0.95	0.82	1.13
1602-028A	1472.00	0.76	0.87	0.86	1.04
1602-029A	1473.00	0.75	0.87	0.84	0.96
1602-030A	1474.00	0.78	0.85	0.85	0.96
1602-031A	1475.00	4.23	2.88	4.56	3.19
1602-032A	1476.00	0.80	0.92	0.81	1.01
1602-033A	1477.00	0.71	0.94	0.77	1.06

Table 11
METHYL PHENANTHRENE INDEX (1) AND (2)

SAMPLE NUMBER	DEPTH	% AREA	% HEIGHT	% AREA	% HEIGHT
1602-034A	1478.00	0.83	0.90	0.90	1.00
1602-035A	1479.00	0.82	0.82	0.90	1.00
1602-036A	1480.00	0.77	0.84	0.90	0.98
1602-037	1481.00	0.73	0.81	0.73	1.01
1602-181	1481.00	0.76	0.72	0.86	0.77
1602-038	1482.00	0.77	0.90	0.91	0.95
1602-039A	1483.00	0.78	0.81	0.88	0.91
1602-040A	1484.00	0.67	0.75	0.78	0.89
1602-041A	1485.00	0.76	0.90	0.86	1.09
1602-042	1486.00	0.68	0.79	0.79	0.90
1602-043	1487.00	0.79	0.83	0.89	1.03
1602-044A	1488.00	1.13	0.86	1.61	0.93
1602-045A	1490.00	0.82	0.82	0.84	1.02
1602-046A	1491.00	0.67	0.76	0.68	0.85
1602-047A	1492.00	0.74	0.79	0.81	0.84
1602-048A	1494.00	0.70	0.84	0.78	0.97
1602-049A	1495.00	0.70	0.78	0.78	0.84
1602-050A	1496.00	0.63	0.92	0.76	0.88
1602-051A	1497.00	0.80	1.02	0.95	0.93
1602-052A	1498.00	0.70	0.95	0.92	1.04
1602-053A	1499.00	0.67	0.98	0.81	1.09
1602-054A	1500.00	0.72	0.82	0.77	0.98
1602-055A	1501.00	0.73	0.85	0.79	0.98
1602-056A	1502.00	0.75	0.89	0.72	1.19
1602-057A	1503.00	0.66	0.75	0.76	0.75
1602-058A	1504.00	1.03	0.80	1.33	0.95
1602-059A	1505.00	0.63	0.85	0.82	0.89
1602-060A	1506.00	0.90	0.90	1.04	0.94
1602-061A	1507.00	0.77	0.77	0.54	0.81
1602-062A	1508.00	0.70	0.74	0.80	0.84
1602-063A	1509.00	1.13	1.10	1.22	1.14
1602-064A	1510.00	0.67	1.23	0.96	0.61
1602-065A	1511.00	0.78	0.83	0.88	0.87
1602-066A	1512.00	0.79	0.77	0.86	0.78
1602-067A	1513.00	0.74	0.84	0.74	0.97
1602-068A	1514.00	0.74	0.77	0.87	0.82
1602-069A	1515.00	1.90	1.41	2.44	1.67
1602-070A	1516.00	1.16	1.03	1.44	1.16
1602-071A	1517.00	0.87	0.89	1.05	0.95
1602-072A	1518.00	0.74	0.90	0.86	1.00
1602-073A	1519.00	0.66	0.77	0.67	0.83
1602-074A	1520.00	0.79	0.95	0.78	1.11
1602-075A	1521.00	0.74	0.87	0.82	0.99
1602-076A	1522.00	0.78	0.90	0.82	0.93
1602-077A	1523.00	0.79	0.88	0.87	1.00
1602-078A	1524.00	0.83	0.85	0.81	0.92
1602-079A	1525.00	0.87	0.91	0.99	1.07
1602-080A	1526.00	0.78	0.87	0.82	0.97
1602-081A	1527.00	0.57	0.57	0.78	0.87

Table 11

METHYL PHENANTHRENE INDEX (1) AND (2)

SAMPLE NUMBER	DEPTH	% AREA	% HEIGHT	% AREA	% HEIGHT
1602-082A	1528.00	0.74	0.74	0.67	0.97
1602-083A	1529.00	0.62	0.76	0.66	0.93
1602-084A	1530.00	0.36	0.39	0.39	0.43
1602-085A	1531.00	1.04	0.75	1.32	0.92
1602-086A	1532.00	1.00	0.97	1.51	1.12
1602-087A	1533.00	0.70	0.81	0.78	0.89
1602-088A	1534.00	1.07	1.01	1.33	1.10
1602-089A	1535.00	1.54	1.44	1.88	1.62
1602-090A	1536.00	0.71	0.82	0.75	1.03
1602-091A	1537.00	0.81	0.86	0.88	0.83
1602-092A	1538.00	0.84	0.94	0.94	0.95
1602-093A	1539.00	0.76	0.81	0.85	1.03
1602-094A	1540.00	0.83	0.81	0.96	0.90
1602-095A	1541.00	0.78	0.93	0.91	0.98
1602-096A	1542.00	0.71	0.89	0.81	1.01
1602-097A	1543.00	0.78	0.79	0.94	0.89
1602-098A	1544.00	0.74	0.85	0.85	1.00
1602-099	1545.0	0.46	0.24	0.50	0.32
1602-100A	1545.5	0.56	0.57	0.61	0.64
1602-101A	1546.0	0.99	0.97	1.01	1.06
1602-102A	1546.8	0.62	0.69	0.67	0.78
1602-103A	1547.5	0.57	0.63	0.61	0.69
1602-104	1548.0	0.63	0.77	0.69	0.88
1602-105	1548.5	0.71	0.76	0.78	0.83
1602-106	1551.0	0.58	0.60	0.62	0.68
1602-107A	1551.5	0.65	0.78	0.66	0.82
1602-108A	1552.0	0.74	0.84	0.76	0.90
1602-109	1555.0	0.62	0.73	0.86	0.91
1602-110	1557.0	1.24	1.31	1.46	1.55
1602-111	1557.5	0.52	0.57	0.58	0.64
1602-112	1558.0	0.70	0.78	0.80	0.96
1602-113	1559.0	0.69	0.80	0.75	0.93
1602-114A	1560.0	0.62	0.69	0.67	0.78
1602-115	1561.0	0.71	0.77	0.78	0.86
1602-116	1562.0	0.53	0.55	0.56	0.57
1602-117	1562.5	0.53	0.57	0.58	0.64
1602-118	1563.0	0.72	0.80	0.78	0.92
1602-119	1564.0	0.68	0.68	0.79	0.71
1602-120	1564.5	0.63	0.77	0.69	0.85
1602-121	1565.0	0.66	0.73	0.75	0.82
1602-122	1565.5	0.64	0.67	0.70	0.78
1602-123	1566.0	0.76	0.85	0.83	0.89
1602-124	1566.5	0.64	0.65	0.70	0.73
1602-125A	1567.0	0.74	0.61	0.82	0.68
1602-126	1567.5	0.70	0.76	0.76	0.84
1602-127A	1570.0	1.17	1.59	1.80	0.69
1602-128A	1573.0	0.38	0.44	0.57	0.57
1602-129A	1628.0	1.58	1.35	1.78	1.41
1602-130A	1830.8	0.65	1.08	0.72	1.22
1602-131	1850.9	0.92	1.33	1.03	1.71

Table 11

METHYL PHENANTHRENE INDEX (1) AND (2)

SAMPLE NUMBER	DEPTH	% AREA	% HEIGHT	% AREA	% HEIGHT
1602-156A	1915.3	0.63	0.65	0.67	0.59
1602-132A	1942.3	1.09	1.15	1.08	1.42
1602-133A	2117.4	0.97	1.14	1.09	1.30
1602-134A	2141.2	1.04	1.07	1.01	1.28
1602-135A	2158.2	1.00	1.12	1.09	1.18
1602-136A	2184.6	0.92	0.93	0.97	1.03
1602-157A	2213.7	1.11	1.12	0.96	0.76
1602-137A	2229.1	1.19	1.33	1.14	1.67
1602-158	2230	0.53	1.36	0.57	1.64
1602-138A	2276.8	1.18	1.24	1.62	1.32
1602-159A	2582.5	0.73	2.00	0.69	2.68
1602-160A	2625.0	1.39	0.98	2.00	1.04
1602-161A	2634.0	1.09	1.52	1.62	1.88
1602-162A	2650.0	0.61	0.87	0.71	1.03
1602-163A	2662.0	0.81	1.03	0.91	1.31
1602-164A	2668.0	1.08	1.27	1.03	1.35
1602-165A	2681.5	0.86	1.25	1.06	1.45
1602-166A	2685.0	1.20	1.57	1.74	1.61
1602-167A	2690.0	0.89	1.12	1.32	1.41
1602-168A	2719.0	1.31	1.12	1.42	0.95
1602-169	2759.0	5.13	5.34	2.37	2.97
1602-170A	2778.0	0.40	0.45	0.30	0.36
1602-171A	2813.0	1.55	1.30	1.97	2.01
1602-172A	2830.0	0.73	0.82	0.95	1.09

Samples below 2830 metres too depleted in aromatic hydrocarbons to identify methyl phenanthrenes

TABLE 12

NBS 22 STANDARD -29.82, -29.80, -29.81 CARBON ISOTOPE COMPOSITIONS (‰, PDB)

GEOCHEM SAMPLE NUMBER	DEPTH	TOTAL EXTRACT WHOLE OIL	SATURATES	AROMATICS	NSO	ASPHALTENES	KEROGEN	PYROLYSATE S2
1602-141A	920m	-28.65	-29.51	-27.82	-28.06	-26.59		
1602-149	1390m	-29.39	-30.66	-28.93	-26.84*	-27.79		
1602-151A	1410m	-29.38	-30.12	-29.21	-32.41 -32.07	-28.01		
1602-154A	1425m	-29.00	-29.67	-28.00	-28.48	-27.57		
1602-013A CORE	1456.00m	-28.23	-27.57	-26.60	-27.94	-27.63		
1602-054A CORE	1500.00m	-27.17	-29.00	-26.18	-26.81	-25.72		
1602-062A CORE	1508.00m	-29.31	-29.34	-27.21	-28.46	-27.73		
1602-064A CORE	1510.00m	-29.00	-29.12	-27.57	**	-27.09		
1602-087A CORE	1533.00m	-28.77	-29.30	-27.31	-28.41	-28.45		
1602-123 SWC	1566.0 m	-27.63	-27.88	-27.65	-33.79	-26.78		
1602-129A SWC	1628.0 m	-29.28	-28.29*	-27.83*	-31.30	-27.84		
1602-131A SWC	1850.9 m	-28.16	**	-27.45	-31.59	-28.48		

* small sample, treat data with caution

** insufficient material for analysis



NBS 22 STANDARD

TABLE 13
CARBON ISOTOPE COMPOSITIONS (‰, PDB)

GEOCHEM SAMPLE NUMBER	DEPTH	TOTAL EXTRACT WHOLE OIL	SATURATES	AROMATICS	NSO	ASPHALTENES	KEROGEN	PYROLYSATE S2
1602-156A SWC	1915.3 m	-27.86	**	-29.60	-30.11	-26.11		
1602-132A SWC	1942.3 m	-25.58	-28.30 -28.03	-25.62	-30.20 -30.45	-25.13		
1602-157A SWC	2213.7 m	-26.88	-27.45	-26.37	-26.76	-26.17		
1602-137A SWC	2229.1 m	-25.80	-28.14	-25.65	-28.12	-25.74		
1602-160A SWC	2625.0 m	-27.53*	-28.82	-28.04*	-28.43*	-27.57		
1602-161A SWC	2634.0 m	-27.82*	-25.30*	-27.54	-28.19	-28.02		
1602-166A SWC	2685.0 m	-26.99*	-28.65	-26.50	-26.94	-28.54		
1602-179A SWC	3373.5 m	-28.14	**	-27.54	-28.19	-30.06		

* small sample, treat data with caution


** insufficient material for analysis



Bergen


Rapport/Report

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Fortrolig/ Confidential <input checked="" type="checkbox"/>	Tittel/Forfatter(e) Title/Author(s)	Sign 
Fordeling/Distribution J. Augustson, Ha 10 ex. E. Nysæther B. Dahl E. Rygg/Arkiv B. Martin/Arkiv	<p style="text-align: center;"> BIOMARKER VARIATIONS IN THE UPPER JURASSIC SOURCE ROCKS, WELL 7321/8-1 by B. Dahl and A. Steen </p> <div style="border: 1px solid black; padding: 5px; text-align: center;"> OLJEDIREKTORATET AVD. KONTOR HARSTAD Journal nr.: 88/8679 - 1 </div>	

Resyme/Konklusjon/Anbefaling Summary/Conclusion/Recommendation	dato 20 MAI 1988
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Emneord/Key words Organic geochemistry, biomarker-analyse, source rocks		Emnekategori/Subject category Petroleum Geochemistry	
Divisjon Seksjon Avdeling Division Section Dept Petroleum geochemistry and basin modelling	Kvadrant/Blokk - Brønn Quadrant/Block - Well 7321/8-1	Dato/Date Side/ Pages - Appendix, 1 app.	
Godkjent sign./Approved sign 	Prosjekt nr./Project nr KA 983A	Lisens nr./Licence no PL 141	Revisjons nr./Revision no

5515 1 88 5 000 Reklametrykk Grafisk A.s

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III.2 Compound Identification

List of analysed metastable transitions representing selected groups of SAT-biomarkers:

Group 1, (retention-time 25:00-57:30):

a.	360 m/z	-> 191 m/z	=> C ₂₆	tricyclic terpanes
b.	346	-> 191	=> C ₂₅	" "
c.	332	-> 191	=> C ₂₄	" "
d.	318	-> 191	=> C ₂₃	" "
e.	304	-> 191	=> C ₂₂	" "
f.	290	-> 191	=> C ₂₁	" "
g.	276	-> 191	=> C ₂₀	" "
h.	316	-> 217	=> C ₂₃	steranes
i.	302	-> 217	=> C ₂₂	"
j.	288	-> 217	=> C ₂₁	"

Group 2, (retention-time 57:40-1:55:00):

k.	454 m/z	-> 191 m/z	=> C ₃₃	pentacyclic triterpanes
l.	400	-> 191	=> C ₃₂	" "
m.	426	-> 191	=> C ₃₁	" "
n.	412	-> 191	=> C ₃₀	" "
o.	398	-> 191	=> C ₂₉	" "
p.	384	-> 191	=> C ₂₈	" "
q.	370	-> 191	=> C ₂₇	" "
r.	414	-> 217	=> C ₃₀	steranes
s.	400	-> 217	=> C ₂₉	"
t.	386	-> 217	=> C ₂₈	"
u.	372	-> 217	=> C ₂₇	"
v.	414	-> 231	=> C ₃₀	methylated steranes
w.	400	-> 231	=> C ₂₉	" "
x.	386	-> 231	=> C ₂₈	" "
y.	372	-> 231	=> C ₂₇	" "



Retention time interval and representative variables for each metastable transition (group of biomarkers):

* R_t -int. is in minutes.

* Variables are equals the total number of variables after data reduction by Maximum Entropy (tot. 821 variables).

<u>Group 1:</u>	R_t -int.	Variables
a. 360-191 m/z =>	53-57	1-3
b. 348-191 =>	46-56	4-7
c. 346-191 =>	46-56	8-16
d. 332-191 =>	40-56	17-33
e. 318-191 =>	35-50	34-51
f. 304-191 =>	32-48	52-68
g. 290-191 =>	26-42	69-89
h. 276-191 =>	26-38	90-100
i. 316-217 =>	35-56	111-130
j. 302-217 =>	34-48	131-156
k. 288-217 =>	28-42	157-193

<u>Group 2:</u>	R_t -int.	Variables
l. 454-191 m/z =>	90-100	194-202
m. 440-191 =>	85-98	203-220
n. 426-191 =>	80-95	221-254
o. 412-191 =>	75-90	255-310
p. 398-191 =>	70-88	311-369
q. 384-191 =>	65-85	370-384
r. 370-191 =>	63-80	385-418
s. 414-217 =>	65-90	419-442
t. 400-217 =>	63-85	443-557
u. 386-217 =>	60-80	558-630
v. 372-217 =>	58-75	631-716
w. 414-231 =>	65-90	717-757
x. 400-231 =>	63-85	758-782
y. 386-231 =>	60-80	783-807
z. 372-231 =>	58-75	808-821



TABLES AND FIGURES



Table 1: Biomarker ratios from

Well 7321/8-1

Depth	20S	$\alpha\beta\beta$	Dia/reg	C_{21}/C_{29}	$C_{27}:C_{28}:C_{29}$	22S	T_B	Moretane/ hopane	C_{30}^7/C_{30}	C_{28}/C_{29}	Sterane/ triterpane
1383	41	68	5.89	7.33	52:16:32	60	80	0.04	0.33	0.11	1.63
1384	35	67	13.0	5.95	45:16:39	65	93	0.05	0.52		
1385	43	68	10.1	5.53	43:16:41	69	95	~ 0	0.63		
1387	43	65	8.9	5.79	46:18:36	70	95	~ 0	0.54		
1388	42	72	12.5	5.36	45:17:38	64	94	0.04	0.47		
1389	44	71	12.1	5.47	32:21:47	65	96	0.08	0.56		
1391				7.09	42:17:41	67	95	0.03	0.63		
1392	41	70	13.6	4.87	43:18:39	66	97	~ 0	0.74		
1395	48	72	18.4	9.24	55:14:31	60	96	~ 0	0.87		
1396	43	69	10.25	5.60	42:14:44	60	91	~ 0	0.64		1.91
1398	41	70	16.12	5.88	41:14:45	65	96	~ 0	0.78		
1399	43	71	16.75	3.80	44:14:42	66	96	~ 0	0.77		
1401	45	68	12.45	7.42	40:15:45	63	96	~ 0	0.73		
1402	47	69	15.22	6.38	45:13:42	65	97	~ 0	0.85		1.55
1404	44	69	11.91	7.20	40:12:48	63	97	~ 0	0.83		
1405	44	69	11.00	7.86	43:19:38	61	96	~ 0	0.69		1.90
1406	32	72	11.04	8.11	48:11:41	57	96	~ 0	0.71		2.13
1407	39	70	9.00	7.59	41:16:43	63	93	~ 0	0.43		1.03
1408	40	66	15.13	5.87	47:16:37	64	83	~ 0	0.20	0.05	1.04
1409	40	69	10.38	7.71	38:18:44	64	96	~ 0	0.52		1.05
1410	43	70	6.5	6.54	43:13:44	63	95	~ 0	0.70		
1411	47	72	8.12	8.58	45:14:41	61	95	~ 0	0.64		1.06
1412	40	75	4.71	7.39	48:13:39	62	89	~ 0	0.33		1.11
1413	36	71	9.43	13.26	34:11:54	64	97	~ 0	0.66		1.42
1414	weak	weak	4.41	5.62	50:13:37	59	84	~ 0	0.31		1.45
1415	41	73	5.22	4.40	45:14:41	62	91	~ 0	0.48		1.40
1416	41	73	9.77	11.58	47:18:35	64	95	~ 0	0.66		1.13
1417	44	68	5.75	12.32	43:14:43	63	95	~ 0	0.84		1.53
1418	43	68	5.19	7.19	51:13:36	60	75	~ 0	0.14	0.03	0.71
1419	n.d.	n.d.	n.d.p.	n.d.	45:22:33	61	81		0.73		0.34
1420	n.d.	n.d.	n.d.p.	n.d.	n.d.		61		0.25		
1421	42	65	3.27	4.66	46:12:42	60	74		0.50		0.37
1422	n.d.	n.d.	n.d.	n.d.	38:18:47	59	67		0.26		0.34
1423											

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Table 1 - Cont.

Depth	20S	$\alpha\beta$	Dia/reg	C_{21}/C_{29}	$C_{27}:C_{28}:C_{29}$	22S	T_b	Moretane/ hopane	C_{30}^2/C_{30}	C_{28}/C_{29}	Sterane/ triterpane
1424	48	58	2.09	3.0	50:16:34	65	59		0.07		0.31
1425	n.d.	n.d.	n.d.								
1426	39	59	1.46	2.24	40:18:42	64	48	0.04	0.07	0.02	0.26
1427	37	60	2.04	2.25	47:13:40	64	61		0.09		0.15
1432	40	67	3.30	7.76	55:15:31	61	54	~ 0	0.07	0.01	0.46
1433	41	66	2.80	2.20	61:10:29	59	65	~ 0	0.21		0.52
1434	46	64	2.94	7.03	41:14:35	60	55	~ 0	0.07	0.04	0.51
1435	39	67	3.13	4.29	52:20:28	63	60		0.12		0.71
1436	41	67	2.6	5.78	54:15:31	62	54		0.07	0.04	
1437			2.87	4.17	46:23:31	60	54		0.06		0.44
Stand.	40	58	4.18	2.03		63	62	0.04	0.06	0.57	0.39

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