

Sampling										
33		1680.5	1644.5	219.57	#N/A	169.49	13.5	#N/A	1.03	
34		1680.0	1644.0	219.50	219.47	156.81	2.4	#N/A	0.95	Aborted to poor permeability
35		1681.0	1645.0	219.63	#N/A	169.62	41.2	#N/A	1.03	Aborted
36		1682.5	1646.5	219.85	219.81	169.70	46.6	#N/A	1.03	Aborted
37		1688.5	1652.5	220.60	#N/A	170.31	#N/A	#N/A	1.03	Aborted to poor permeability
38		1688.4	1652.4	220.65	#N/A	170.32	#N/A	53.8	1.03	Aborted to poor permeability

Pretest after sampling										
39		1708.5	1672.5	223.24	#N/A	172.24	602.4	52.6	1.03	Sample pretest
40		1708.5	1672.5	223.24	222.97	172.31	602.4	52.6	1.03	Sample pretest
41		1672.4	1636.4	220.60	#N/A	168.991	13.3	50.2	1.03	Sample pretest, lost seal
42		1672.7	1636.7	218.41	#N/A	169.021	7.6	50.2	1.03	Sample pretest, pump motor stalling
43		1672.6	1636.6	218.38	218.39	169.765	8.2	50.7	1.03	Sample pretest, tool plugged.
44		1339	1303.0	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Pretest inside csg to check if the tool after flushing the tool string.
45		1564.4	1528.4	209.55	#N/A	#N/A	#N/A	#N/A	#N/A	Aborted, slow form. pressure buildup.
46		1564.4	1528.4	206.69	204.71	#N/A	0.5	45.7	1.19	Poor, unstable test
47		1566.5	1530.5	205.02	205.05	#N/A	#N/A	#N/A	1.15	Tight, volumetric limited method

Table 4.8



MDT summary, Run 1B, oil sampling and miniDST with dual packer.

Test no	Depth m TVDRT	Depth m MSL	Hydro pressure Before (Bar)	Hydro pressure After (Bar)	Formation pressure (Bar)	Mobility (mD/cp)	Temp (°C)	Gradient g/cm <sup>3</sup>	Comments
48	1656.1	1620.1	216.55	216.428	#N/A	1.1	48.4	#N/A	Pretest to check if there is mobility at the probe
49	1656.0	1620.0	216.39	216.428	#N/A	527	48.5	#N/A	Pretest to check if there is mobility at the probe
50	1656.2	1620.2	216.48	#N/A	#N/A	157	#N/A	0.00	
51	1656.3	1620.3	#N/A	#N/A	#N/A	3.6	#N/A	0.00	
52	1657.6	1621.6	#N/A	#N/A	167.60	278	#N/A	1.03	Pretest with packer module, miniDST#1
53	1655.6	1619.6	216.43	#N/A	168.16	137	#N/A	1.04	Pretest at probe, miniDST#1
54	1664.7	1628.7	217.32	#N/A	168.33	50.1	#N/A	1.03	Pretest at probe, miniDST#2
55	1666.7	1630.7	210.61	#N/A	#N/A	11.2	#N/A	#N/A	Pretest with packer module, miniDST#2. Aborted, pressure building up too high
56	1666.7	1630.7	210.61	#N/A	168.33	6	#N/A	1.03	Pretest with packer module, miniDST#2.

Table 4.9

MDT pressure summary, Run 1C, oil + water sampling and miniDST with dual packer.

Test no	Depth m TVDRT	Depth m MSL	Hydro pressure Before (Bar)	Hydro pressure After (Bar)	Formation pressure (Bar)	Mobility (mD/cp)	Temp (°C)	Gradient g/cm <sup>3</sup>	Comments
57	1670.4	1634.4	217.77	#N/A	168.75	#N/A	42.1	1.03	Probe pre-test before sampling at 1672.4m
58	1672.4	1636.4	218.13	#N/A	169.41	#N/A	41.1	1.03	Packer pre-test before sampling at 1672.4m
59	1675.5	1639.5	218.67	#N/A	174.82	#N/A	#N/A	1.06	Probe pre-test before sampling at 1677.5 m
60	1678.5	1642.5	218.84	#N/A	169.35	#N/A	47.9	1.03	Probe pre-test before sampling at 1680.5m
61	1680.5	1644.5	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Pre-test with packer not done
62	1661.0	1625	218.76	#N/A	167.91	#N/A	48.7	1.03	Probe pre-test before sampling at 1661m
63	1663.0	1627	220.72	#N/A	168.7	#N/A	48.7	1.03	Packer pre-test before sampling at 1663m
64	1652.0	1616	215.16	215.09	#N/A	#N/A	#N/A	#N/A	Pre-test in top of reservoir - tight
65	1566.5	1530.5	203.99	#N/A	175.97	9.3	40.8	1.15	Recycle 3 hrs.

Table 4.10



#### 4.9 Reservoir fluid sampling

Oil samples were using a dual packer. Even though some technical problems occurred during sampling with the MDT tool, the samples were of good quality.

##### Samples collected from Run 1A 6608/11-4

Sample depth (m MD)	Run No	*Bottle Number	Chamber (volume)	Drawdown (bar)	Formation Pressure (bar)	Pump Volume	Mobility (mD/CP)	Opening pressure (bar)	Transferred to
1708.5	1A	MRSC#200	1 gal	4	172.2	269	602	121	Jerry Can
1708.5	1A	MPSR1-073	450 cc	4	172.2	279	602	110	50188 (Xample)
1708.5	1A	MPSR2-970	450 cc	4	172.2	286	602	124	TS-23407 (Proserv)
1708.5	1A	MPSR3-694	450 cc	4	172.2	291	602	124	TS-47507 (Proserv)

Table 4.11

Samples collected from Run 1B 6608/11-4

Sample depth (m MD)	Run No	*Bottle Number	Chamber (volume)	Drawdown (bar)	Formation Pressure (bar)	Pump Volume	Mobility (mD/CP)	Opening pressure (bar)	Transferred to
1657.6	1B	MRSC#68	18 gal	9.2	167.75	229	300 <sup>1</sup>	29	Jerry Can
1657.6	1B	MPSC#115	2 ¾ G	9.0	167.75	238	300 <sup>1</sup>	34	50188 (Xample)
1657.6	1B	MPSC#113	2 ¾ G	9.3	167.75	258	300 <sup>1</sup>	45	TS-23407 (Proserv) TS-28513 (Proserv) TS-36002 (Proserv) Plastic bottle 50473 (Xample)
1657.6	1B	MPSC#189	1 G	9.0	167.75	270	300 <sup>1</sup>	35	TS-47507 (Proserv)
1657.6	1B	MPSR#644	450 cc	9.2	167.75	290	300 <sup>1</sup>		Not filled
1657.6	1B	MPSR#147	450 cc	9.2	167.75	293	300 <sup>1</sup>		Not filled

<sup>1</sup> Mobility is from pretest run

Table 4.12

Samples collected from Run 1C 6608/11-4

Sample depth (m MD)	Run No	*Bottle Number	Chamber (volume)	Drawdown (bar)	Formation Pressure (bar)	Pump Volume	Mobility (mD/CP)	Opening pressure (bar)	Transferred to
1672.4	1C	MRSC#154	1 gal	4.7	169.0	68			TS-52102 (Proserv)
1677.5	1C	MPSR#610	450 cc	4	169.4	103			TS-12418 (Proserv)
1677.5	1C	MPSR#696	450 cc	4	169.4	103			TS-4055 (Proserv)
1680.5	1C	MPSC#172	1 G	2.6	168.7	107			Plastic & Glass bottles
1663	1C	MRSC#68	18 G	4.5	168.2	103			Jerry Can
1663	1C	MRSC#170	1 G	4.8	168.2	201			TS-52101 (Proserv)
1663	1C	MPSR#970	450 cc	4.8	168.2	212			TS-36003 (Proserv)
1663	1C	MPSR#694	450 cc	4.8	168.2	220			TS-54103 (Proserv)
1663	1C	MPSR#073	450 cc	4.8	168.2	224			TS-29201 (Proserv)
1663	1C	MPSR#1006	450 cc	4.8	168.2	229			TS-36303 (Proserv)

Table 4.13

The oil samples contained very little formation water and mud, except for the 18 Gallon chambers.

The water samples were very little contaminated regarding use of water-based mud, except for formation water from the 18 Gallon oil samples.

The water samples from 1708.5 m had very little contamination (0.23%). The water samples from 1677.5 and 1680.5 mTVD RKB contained 16 and 24% contamination respectively from the mud measured from the Tritium level in the mud. Analysis on the formation water from the 18 Gallon samples where highly contaminated as expected, above 50%.

Well: 6608/11-4

## FINAL DRILLING FLUIDS PROGRAMME

Field: PL128, Linerle - North east segment

Rig: West Navigator

HOLE		CASING		MUD TYPE	MW [SG]	LGS [KG/m <sup>3</sup> ]	10 sec. [Pa]	10 min. [Pa]	Funnel Visc.	Fann 3 rpm	O / W ratio	PV [mPa]	API FL [ml]	HTHP FL [ml]	MBT [KG/m <sup>3</sup> ]	pH	Kcl [KG/m <sup>3</sup> ]	Glyc. [%]	Ca ++ [mg/l]	Sulphate [mg/l]	Usage Volume [m <sup>3</sup> ]	
SIZE	TVD MD	SIZE	TVD MD																			
36"	425 425	30"	426 426	SW/ Bentonite/ Polymer	1,03 - 1,35				>150							8 - 9						232
Because of slow drilling, more sweeps than estimated where used.																						
12 1/4"	1357 1357	9 5/8"	1349 1349	SW/ Bentonite/ Polymer	1,03 - 1,30				>150							8 - 9						1061
Pumped 5 - 10m3 HiVis sweeps every 15m. At TD a Hi Vis pill was swept around, before displacing the well to 1.30sg mud. Worked tight spots by pumping 1.3sg mud at the same time to aid on the way out of hole. Pulled out to 30" casing shoe and circulated. Ran back to bottom and displaced the well to 1.30sg mud again.																						
8 1/2"	2317 2317	0		KCl/ Pac/ Glycol	1,30	26 - 107	3 - 4	4 - 6	na	5 - 6	na	14 - 17	1,8 - 2,2	na	10 - 46	8,6 - 9,3	133 - 148	3,5 - 4	400 - 680	169 - 211		175
After the XLOT, the well was displaced to GlydriI 99% KCl, and special attention was paid on the sulphate content of the fluid After the displacement, it was observed that the level increased above the programmed specification (200 mg/litre). This was probably due to the residues from the rat hole. However, the sulphate level dropped as we continued drilling, and was recorded well within the specifications prior to start logging. The mud properties were maintained by diluting the active system with 2-4 m <sup>3</sup> an hour of premix with slightly higher concentration of chemicals than in the initially mud. Occasionally both KCl and Duotec was added directly to active to fine tune the properties.																						

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# GEOCHEMICAL REPORT

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### TITLE

**GEOCHEMICAL REPORT ON NOCS WELL 6608/11-4**

### AUTHOR(S)

Peter Barry Hall

### GEOLAB PROJECT NO.

62678

### DATE

29/10/04

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### REPORT NO./FILE

### PAGE

1 of 1

# **GEOCHEMICAL REPORT ON WELL NOCS 6608/11-4**

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Date: 08/10/2004



## **1.2 Analytical Program**

The analytical program for well NOCS **6608/11-4** decided by Statoil and the number of samples for the individual analyses are listed in Table 1 of each section (Rocks, Oils and Gases, and Muds).

Table 1 Analytical Program

Well	Sample Depth (m)	Sample Type	Sample Code	Extraction Clean-Up	Lithology Description	Picking for screening	Prepreparing	Lecco TOC	RockEval	Thermal Extraction	Pyrolysis GC	Picking for Extraction	IR/FTIR	Solvent Extraction	Topping	MPLC & Desphaltene	EOM GC	Sat GC (Quantitative)	Aro GC	Sat GCMS (Quantitative)	Aro GCMS	Carbon isotope of topped oil, or EOM and fractions	Vitrinite Reflectance	
	Table nos.:			3		3,4	4				6		8	8	8	8	8	9	9	11	12	10	4	
6608/11-4	1400.00	cut	X88/0016-1		x	x		x	x														x	
6608/11-4	1602.00	cut	X88/0017-2		x	x		x	x	x														
6608/11-4	1623.00	cut	X88/0018-1		x	x		x	x															
6608/11-4	1644.00	cut	X88/0019-1		x	x		x	x															
6608/11-4	1656.00	cut	X88/0020-1		x	x		x	x	x														
6608/11-4	1659.00	cut	X88/0021-1		x	x		x	x															
6608/11-4	1662.45	core	X88/0001-0		x			x	x				x			x		x	x	x	x	x		
6608/11-4	1664.15	core	X88/0002-0		x			x	x															
6608/11-4	1667.00	core	X88/0003-0		x			x	x				x			x		x	x	x	x	x		
6608/11-4	1670.90	core	X88/0004-0		x			x	x									x	x	x	x	x		
6608/11-4	1674.15	core	X88/0005-0		x			x	x	x														x
6608/11-4	1676.85	core	X88/0006-0		x			x	x															
6608/11-4	1679.20	core	X88/0007-0		x			x	x				x			x		x	x	x	x	x		
6608/11-4	1679.95	core	X88/0008-0		x			x	x															
6608/11-4	1688.05	core	X88/0009-0		x			x	x				x			x		x	x	x	x	x		
6608/11-4	1693.20	core	X88/0010-0		x			x	x															
6608/11-4	1696.90	core	X88/0011-0		x			x	x															
6608/11-4	1701.00	core	X88/0012-0		x			x	x															
6608/11-4	1705.75	core	X88/0013-0		x			x	x															
6608/11-4	1710.00	core	X88/0014-0		x			x	x				x			x		x	x	x	x	x		
6608/11-4	1712.15	core	X88/0015-0		x			x	x															x
6608/11-4	1719.00	cut	X88/0037-0		x	x		x	x	x	x													
6608/11-4	1740.00	cut	X88/0023-1		x	x		x	x				x			x		x	x	x	x	x		
6608/11-4	1782.00	cut	X88/0024-1		x	x		x	x															
6608/11-4	1812.00	cut	X88/0025-1		x	x		x	x															
6608/11-4	1842.00	cut	X88/0038-0		x	x		x	x															
6608/11-4	1872.00	cut	X88/0039-0		x	x		x	x				x			x		x	x	x	x	x	x	
6608/11-4	1920.00	cut	X88/0028-1		x	x		x	x															
6608/11-4	1974.00	cut	X88/0029-2		x	x		x	x															
6608/11-4	2022.00	cut	X88/0030-2		x	x		x	x	x														x
6608/11-4	2076.00	cut	X88/0031-1		x	x		x	x															
6608/11-4	2124.00	cut	X88/0032-1 and -2		x	x*2		x*2	x*2				x(shale)	x(shale)		x(shale)		x(shale)	x(shale)	x(shale)	x(shale)	x(shale)	x	
6608/11-4	2172.00	cut	X88/0033-1		x	x		x	x															
6608/11-4	2214.00	cut	X88/0034-1 and -2		x	x*2		x*2	x*2	x	x(shale)													
6608/11-4	2262.00	cut	X88/0035-1		x	x		x	x															
6608/11-4	2310.00	cut	X88/0036-1		x	x		x	x															x
6608/11-4	TOTAL				36	23		38	38	3	4		8	8		8		8	8	8	8	8	8	7

Table 3 Sample descriptions: SAMPLES

Depth	unit of measure: m	Grp	Frm	Age	Trb	Sample
Depth	Type	%	Lithology	description		
1400.00						0016
	0.75	75	Sltst	: lt gy, s, argill		0016-1L
		25	Cont	: cem		0016-2L
1602.00						0017
		70	Sh/Clst:	lt gn gy to lt gy		0017-1L
	1.69	15	Sh/Clst:	brn gy to drk brn gy		0017-2L
		15	Ca	: w		0017-3L
1623.00						0018
	1.08	90	Sh/Clst:	lt brn gy to drk brn gy		0018-1L
		10	Sh/Clst:	lt gy to lt gn gy		0018-2L
		tr	Ca	: w		0018-3L
1644.00						0019
	1.72	75	Sh/Clst:	lt brn gy to drk brn gy		0019-1L
		10	Sh/Clst:	lt gy to lt gn gy		0019-2L
		10	S/Sst	: w, lt brn gy, f		0019-4L
		5	Other	: w, tuf		0019-5L
		tr	Ca	: w		0019-3L
		tr	Other	: pyr		0019-6L
		tr	Other	: glauc		0019-7L
1656.00						0020
	1.36	100	Sh/Clst:	brn gy		0020-1L
1659.00						0021
	1.37	85	Sh/Clst:	brn gy		0021-1L
		10	S/Sst	: w, lt brn gy		0021-3L
		5	Sh/Clst:	lt gy, lt gn gy		0021-2L
		tr	Coal			0021-4L
		tr	Other	: pyr		0021-5L
1662.45	ccp					0001
	5.80	100	S/Sst	: gy brn to dsk brn, st		0001-1L
				bulk		0001-0B
1664.15	ccp					0002
	5.60	100	S/Sst	: dsk brn to dsk y brn, st		0002-1L
				bulk		0002-0B
1667.00	ccp					0003
	7.49	100	S/Sst	: dsk brn to dsk y brn, st		0003-1L
				bulk		0003-0B
1670.90	ccp					0004
	5.39	100	S/Sst	: lt gy to brn gy to m gy, bit		0004-1L
				bulk		0004-0B
1674.15	ccp					0005
	55.60	100	Coal	: blk to dsk y brn		0005-1L
				bulk		0005-0B
1676.85	ccp					0006
	0.71	100	S/Sst	: lt gy to brn gy		0006-1L
				bulk		0006-0B
1679.20	ccp					0007
	49.70	100	Coal	: blk		0007-1L
				bulk		0007-0B
		tr	S/Sst	: lt gy		0007-2L

Depth unit of measure: m						
Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	% Lithology description			
1679.95	ccp					0008
	0.47	100	S/Sst	: w to lt gy		0008-1L
			bulk			0008-0B
1688.05	ccp					0009
	0.81	100	S/Sst	: w to lt gy		0009-1L
			bulk			0009-0B
			tr Coal	: blk		0009-2L
1693.20	ccp					0010
	1.75	100	Sltst	: lt gy to m gy		0010-1L
			bulk			0010-0B
1696.90	ccp					0011
	2.74	100	S/Sst	: lt gy, slt		0011-1L
			bulk			0011-0B
1701.00	ccp					0012
	0.17	100	S/Sst	: lt gy to w		0012-1L
			bulk			0012-0B
1705.75	ccp					0013
	0.49	100	S/Sst	: w to lt gy, crs, l		0013-1L
			bulk			0013-0B
1710.00	ccp					0014
	0.25	100	S/Sst	: w to lt gy, crs, l		0014-1L
			bulk			0014-0B
1712.15	ccp					0015
	13.30	85	S/Sst	: w to lt gy, crs, l		0015-1L
		15	Coal	: blk		0015-2L
			bulk			0015-0B
1719.00						0022
	12.40	80	S/Sst	: w, l		0022-1L
		10	Coal			0022-4L
		5	Other	: mic		0022-2L
		5	Sh/Clst:	v col		0022-3L
			Coal + sandstone			
1740.00						0023
	0.50	75	Sh/Clst:	v col		0023-2L
		15	S/Sst	: w, l		0023-1L
		10	Coal			0023-3L
1782.00						0024
	0.52	75	Sh/Clst:	v col		0024-2L
		15	S/Sst	: w, l		0024-1L
		10	Coal			0024-3L
1812.00						0025
	0.27	65	S/Sst	: w, l		0025-1L
		25	Coal			0025-3L
		10	Sh/Clst:	v col		0025-2L
1842.00						0026
	16.40	85	S/Sst	: w, l		0026-1L
		10	Coal			0026-3L
		5	Other	: mic		0026-4L
		tr	Sh/Clst:	v col		0026-2L
			Coal + claystone			

Depth	unit of measure: m						
Depth	Type	Grp	Frm	Age	Trb	Sample	
Int	Cvd	TOC%	%	Lithology description			
1872.00						0027	
				70 Coal		0027-3L	
				20 S/Sst : w, l		0027-1L	
				10 Sh/Clst: brn gy to drk brn gy, carb		0027-2L	
				tr Other : mic		0027-4L	
				tr Sh/Clst: lt gy to lt gn gy		0027-5L	
				Coal + claystone			
1920.00	19.70					0028	
	0.15			85 S/Sst : w, lt brn gy, calc, l		0028-1L	
				10 Sh/Clst: lt gy to lt gn gy, brn gy		0028-2L	
				5 Coal		0028-3L	
1974.00						0029	
				70 Coal		0029-3L	
				20 S/Sst : w, lt brn gy, calc, l		0029-1L	
	1.17			10 Sh/Clst: lt gy to lt gn gy, brn gy, carb		0029-2L	
2022.00						0030	
				45 S/Sst : w, lt brn gy, calc, l		0030-1L	
				35 Coal : brn blk, drk or brn, fis		0030-3L	
	1.37			15 Sh/Clst: lt gy to lt gn gy, brn gy, carb		0030-2L	
				5 Ca : lt brn gy, w, pl y brn, s		0030-4L	
2076.00						0031	
	0.16			70 S/Sst : w, lt brn gy, calc, l		0031-1L	
				20 Sh/Clst: lt gy to lt gn gy, brn gy, carb		0031-2L	
				10 Coal : brn blk, drk or brn, fis		0031-3L	
				tr Ca : lt brn gy, w, pl y brn, s		0031-4L	
				tr Other : pyr, glauc		0031-5L	
2124.00						0032	
	0.11			75 S/Sst : w, l		0032-1L	
				15 Coal		0032-3L	
	9.22			10 Sh/Clst: lt brn gy to drk brn gy, carb		0032-2L	
				tr Ca : lt brn gy, w, pl y brn, s		0032-4L	
				tr Sh/Clst: lt gy to lt gn gy		0032-5L	
2172.00						0033	
	0.02			85 S/Sst : w, calc, l		0033-1L	
				5 Sh/Clst: lt brn gy to drk brn gy, carb		0033-2L	
				5 Coal		0033-3L	
				5 Ca : lt brn gy, w, pl y brn, s		0033-4L	
				tr Sh/Clst: lt gy to lt gn gy		0033-5L	
2214.00						0034	
	0.10			70 S/Sst : w, lt brn gy, calc, l		0034-1L	
	1.81			20 Sh/Clst: lt brn gy to drk brn gy, lt gn gy		0034-2L	
				10 Ca : lt brn gy, w, pl y brn, s, dol		0034-4L	
				tr Coal		0034-3L	
2262.00						0035	
				60 Sh/Clst: m red brn, m gy, y brn, slt, s		0035-2L	
	0.08			30 S/Sst : w, lt brn gy, calc, l		0035-1L	
				10 Ca : lt brn gy, w, pl y brn, s, dol		0035-4L	
				tr Coal		0035-3L	
2310.00						0036	
	0.20			100 Sh/Clst: m red brn, lt gy, m gy		0036-1L	
				tr S/Sst		0036-2L	
				tr Coal		0036-3L	

Table 4a. Vitrinite Reflectance raw data

Depth (m)	Sample type	TRUE	2nd population
1400	cut	0.15	0.32
1400	cut	0.15	0.33
1400	cut	0.16	
1400	cut	0.16	
1400	cut	0.17	
1400	cut	0.17	
1400	cut	0.18	
1400	cut	0.2	
1400	cut	0.21	
1674.15	ccp	0.29	
1674.15	ccp	0.29	
1674.15	ccp	0.29	
1674.15	ccp	0.29	
1674.15	ccp	0.29	
1674.15	ccp	0.3	
1674.15	ccp	0.3	
1674.15	ccp	0.3	
1674.15	ccp	0.3	
1674.15	ccp	0.3	
1674.15	ccp	0.3	
1674.15	ccp	0.3	
1674.15	ccp	0.3	
1674.15	ccp	0.3	
1674.15	ccp	0.3	
1674.15	ccp	0.31	
1674.15	ccp	0.31	
1674.15	ccp	0.31	
1674.15	ccp	0.32	
1674.15	ccp	0.32	
1674.15	ccp	0.35	
1712.15	ccp	0.24	
1712.15	ccp	0.25	
1712.15	ccp	0.25	
1712.15	ccp	0.27	
1712.15	ccp	0.28	
1712.15	ccp	0.29	
1712.15	ccp	0.29	
1712.15	ccp	0.3	
1712.15	ccp	0.3	
1712.15	ccp	0.31	
1712.15	ccp	0.31	
1712.15	ccp	0.31	
1712.15	ccp	0.32	
1712.15	ccp	0.33	
1712.15	ccp	0.33	
1712.15	ccp	0.34	

Table 4a. Vitrinite Reflectance raw data

Depth (m)	Sample type	TRUE	2nd population
1712.15	ccp	0.35	
1872	cut	0.24	
1872	cut	0.24	
1872	cut	0.26	
1872	cut	0.26	
1872	cut	0.27	
1872	cut	0.28	
1872	cut	0.28	
1872	cut	0.28	
1872	cut	0.28	
1872	cut	0.28	
1872	cut	0.29	
1872	cut	0.3	
1872	cut	0.3	
1872	cut	0.31	
1872	cut	0.32	
1872	cut	0.32	
1872	cut	0.32	
1872	cut	0.34	
2022	cut	0.24	
2022	cut	0.24	
2022	cut	0.25	
2022	cut	0.25	
2022	cut	0.25	
2022	cut	0.27	
2022	cut	0.27	
2022	cut	0.27	
2022	cut	0.27	
2022	cut	0.28	
2022	cut	0.28	
2022	cut	0.29	
2022	cut	0.29	
2022	cut	0.29	
2022	cut	0.3	
2022	cut	0.31	
2022	cut	0.32	
2022	cut	0.32	
2022	cut	0.35	
2124	cut	0.25	
2124	cut	0.26	
2124	cut	0.27	
2124	cut	0.27	
2124	cut	0.28	
2124	cut	0.29	
2124	cut	0.29	
2124	cut	0.29	

Table 4a. Vitrinite Reflectance raw data

Depth (m)	Sample type	TRUE	2nd population
2124	cut	0.3	
2124	cut	0.3	
2124	cut	0.3	
2124	cut	0.32	
2124	cut	0.33	
2124	cut	0.33	
2124	cut	0.34	
2124	cut	0.35	
2124	cut	0.35	
2124	cut	0.36	
2124	cut	0.37	
2124	cut	0.37	
2310	cut	0.26	0.82
2310	cut	0.26	0.87
2310	cut	0.33	
2310	cut	0.36	

Table 4b. Vitrinite Reflectance data

<b>Well name</b>	<b>Upper depth (m)</b>	<b>Lower depth (m)</b>	<b>Sample type</b>	<b>Desc</b>	<b>%Lithology</b>	<b>%Ro</b>	<b>No. readings</b>	<b>Std.dev.</b>	<b>Fluor.</b>	<b>Sample number</b>
6608/11-4		1400	cuttings	bulk	sst/clyst	0.17	9	0.02	-	0016-0
6608/11-4		1674.15	ccp	bulk	coal	0.30	23	0.01	-	0005-0
6608/11-4		1712.15	ccp	bulk	coal/clyst	0.29	21	0.04	-	0015-0
6608/11-4		1872	cuttings	bulk	coal/clyst	0.28	21	0.03	-	0027-0
6608/11-4		2022	cuttings	bulk	clyst/coal	0.28	24	0.03	-	0030-0
6608/11-4		2124	cuttings	bulk	clyst	0.30	22	0.04	-	0032-0
6608/11-4		2310	cuttings	bulk	clyst	0.30	4	0.05	-	0036-0

Table 5 RockEval data

Well	Upper depth (m)	Lower depth (m)	Sample type	Description	%Lith.	S1	S2	TOC	Tmax	HI	PP	PI	Sample number
6608/11-4	1400	1400	cut	siltstone	75	0.85	3.52	0.75	359	469	4.4	0.19	X88/0016-1
6608/11-4	1602	1602	cut	shale/claystone	15	3.26	9.77	1.69	347	578	13	0.25	X88/0017-2
6608/11-4	1623	1623	cut	shale/claystone	90	1.82	6.23	1.08	344	577	8.1	0.23	X88/0018-1
6608/11-4	1644	1644	cut	shale/claystone	75	3.38	8.47	1.72	340	492	11.9	0.29	X88/0019-1
6608/11-4	1656	1656	cut	shale/claystone	100	2.96	6.32	1.36	340	465	9.3	0.32	X88/0020-1
6608/11-4	1659	1659	cut	shale/claystone	85	2.03	6.38	1.37	346	466	8.4	0.24	X88/0021-1
6608/11-4	1662.4	1662.45	ccp	bulk fraction		77.4	21.55	5.8	320	372	99	0.78	X88/0001-0
6608/11-4	1664.1	1664.15	ccp	bulk fraction		100	28.92	5.6	322	516	129	0.78	X88/0002-0
6608/11-4	1666.9	1667	ccp	bulk fraction		131	47.72	7.49	320	637	178	0.73	X88/0003-0
6608/11-4	1670.8	1670.9	ccp	bulk fraction		3.84	16.29	5.39	417	302	20.1	0.19	X88/0004-0
6608/11-4	1674.1	1674.15	ccp	bulk fraction		9.02	82.91	55.6	407	149	91.9	0.1	X88/0005-0
6608/11-4	1676.8	1676.85	ccp	bulk fraction		3.19	1.43	0.71	423	201	4.6	0.69	X88/0006-0
6608/11-4	1679.1	1679.2	ccp	bulk fraction		2.42	73.62	49.7	403	148	76	0.03	X88/0007-0
6608/11-4	1679.9	1679.95	ccp	bulk fraction		0.28	0.92	0.47	473	196	1.2	0.23	X88/0008-0
6608/11-4	1688	1688.05	ccp	bulk fraction		2.19	1.12	0.81	350	138	3.3	0.66	X88/0009-0
6608/11-4	1693	1693.2	ccp	bulk fraction		0.62	2.98	1.75	426	170	3.6	0.17	X88/0010-0
6608/11-4	1696	1696.9	ccp	bulk fraction		0.51	3.58	2.74	425	131	4.1	0.12	X88/0011-0
6608/11-4	1700.9	1701	ccp	bulk fraction		0.87	0.93	0.17	565	554	1.8	0.48	X88/0012-0
6608/11-4	1705.7	1705.75	ccp	bulk fraction		0.86	1.11	0.49	347	225	2	0.44	X88/0013-0
6608/11-4	1709.9	1710	ccp	bulk fraction		1.5	1.62	0.25	357	640	3.1	0.48	X88/0014-0
6608/11-4	1712.1	1712.15	ccp	bulk fraction		0.46	10.44	13.3	403	78	10.9	0.04	X88/0015-0
6608/11-4	1719	1719	com	bulk fraction		10.6	27.84	12.4	372	225	38.4	0.28	X88/0037-0
6608/11-4	1740	1740	cut	sandstone/sand	15	2.97	2.45	0.5	344	490	5.4	0.55	X88/0023-1
6608/11-4	1782	1782	cut	sandstone/sand	15	2.75	6.08	0.52	348	1169	8.8	0.31	X88/0024-1
6608/11-4	1812	1812	cut	sandstone/sand	65	0.37	0.52	0.27	337	193	0.9	0.42	X88/0025-1
6608/11-4	1842	1842	com	bulk fraction		7.34	29.62	16.4	427	181	37	0.2	X88/0038-0
6608/11-4	1872	1872	com	bulk fraction		10.1	35.93	19.7	417	182	46.1	0.22	X88/0039-0
6608/11-4	1920	1920	cut	sandstone/sand	85	0.35	0.45	0.15	334	300	0.8	0.44	X88/0028-1
6608/11-4	1974	1974	cut	shale/claystone	10	1.76	8.03	1.17	349	686	9.8	0.18	X88/0029-2
6608/11-4	2022	2022	cut	shale/claystone	15	1.98	8.52	1.37	353	622	10.5	0.19	X88/0030-2
6608/11-4	2076	2076	cut	sandstone/sand	70	0.29	0.48	0.16	334	300	0.80	0.38	X88/0031-1
6608/11-4	2124	2124	cut	sandstone/sand	75	0.16	0.29	0.11	334	264	0.4	0.36	X88/0032-1
6608/11-4	2124	2124	cut	shale/claystone	10	4.98	31.31	9.22	424	340	36.3	0.14	X88/0032-2
6608/11-4	2172	2172	cut	sandstone/sand	85	0.08	0.10	0.02	337	500	0.2	0.44	X88/0033-1
6608/11-4	2214	2214	cut	sandstone/sand	70	0.15	0.19	0.10	345	190	0.3	0.44	X88/0034-1
6608/11-4	2214	2214	cut	shale/claystone	20	2.04	10.63	1.81	354	587	12.7	0.16	X88/0034-2
6608/11-4	2262	2262	cut	sandstone/sand	30	0.13	0.24	0.08	344	300	0.4	0.35	X88/0035-1
6608/11-4	2310	2310	cut	shale/claystone	100	0.25	1.37	0.20	350	685	1.6	0.15	X88/0036-1



Table 6 Pyrolysis GC data: PYRGCREL

<b>Well name</b>	<b>Upper depth (m)</b>	<b>Lower depth (m)</b>	<b>Sample type</b>	<b>Desc</b>	<b>%Lith.</b>	<b>C1</b>	<b>C2-C5</b>	<b>C6-C14</b>	<b>C15+</b>	<b>GORP</b>	<b>Sample number</b>
6608/11-4	1674.1	1674.15	ccp	coal	100	11.79	18.18	36.13	33.9	0.43	X88/0005-1
6608/11-4	1719	1719	com	bulk fraction		5.5	24.21	44.22	26.07	0.42	X88/0037-0
6608/11-4	2022	2022	cut	shale/claystone	15	0.64	50.19	42.82	6.35	1.03	X88/0030-2
6608/11-4	2214	2214	cut	shale/claystone	20	1.02	53.14	42.52	3.32	1.18	X88/0034-2

Table 8a-c Extraction data: EXTRACT WEIGHTS

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	%Lith.	Table 8a		Table 8c						
						Wt. rock extracted (g) whole oil (mg) for topping	EOM (mg) of mud and sediments, Topped Oil (mg)	Sat (mg)	Aro (mg)	NSO (mg)	Asph (mg)	%TOC	HC	Non-HC
6608/11-4	1662.4	1662.45	ccp	sandstone/sand	100	3.78	367.1	148.87	132.06	56.43	29.75	5.8	280.93	86.17
6608/11-4	1666.9	1667	ccp	sandstone/sand	100	3.01	406.3	167.5	172.42	55.42	10.96	7.49	339.92	66.38
6608/11-4	1679.1	1679.2	ccp	coal	100	2.01	42	0.92	6.29	10.72	24.06	49.7	7.21	34.79
6608/11-4	1688	1688.05	ccp	sandstone/sand	100	2.98	17.5	0.41	0.41	15.41	1.27	0.81	0.81	16.69
6608/11-4	1709.9	1710	ccp	sandstone/sand	100	8.34	29	0.63	0.21	25.91	2.25	0.25	0.84	28.16
6608/11-4	1740	1740	cut	sandstone/sand	15	4.3	27.8	2.05	2.25	21.29	2.21	0.5	4.3	23.5
6608/11-4	1872	1872	com	bulk fraction		6.92	99.1	1.78	2	47.58	47.74	19.7	3.78	95.32
6608/11-4	2124	2124	cut	shale/claystone	10	3.91	91.4	1.94	2.59	77.25	9.62	9.22	4.53	86.87

Table 8a-c Extraction data: EXTRACT WEIGHTS

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	%Lith.	Table 8b					Table 8c					Sample number
						EOM (ppm)	Sat (ppm)	Aro (ppm)	NSO (ppm)	Asph (ppm)	EOM (mg/g TOC)	Sat (mg/g TOC)	Aro (mg/g TOC)	NSO (mg/g TOC)	Asph (mg/g TOC)	
6608/11-4	1662.4	1662.45	ccp	sandstone/sand	100	97116	39384	34937	14929	7870	1674.4	679.0	602.4	257.4	135.7	X88/0001-1
6608/11-4	1666.9	1667	ccp	sandstone/sand	100	134983	55648	57282	18412	3641	1802.2	743.0	764.8	245.8	48.6	X88/0003-1
6608/11-4	1679.1	1679.2	ccp	coal	100	20896	458	3129	5333	11970	42.0	0.9	6.3	10.7	24.1	X88/0007-1
6608/11-4	1688	1688.05	ccp	sandstone/sand	100	5872	138	138	5171	426	725.0	17.0	17.0	638.4	52.6	X88/0009-1
6608/11-4	1709.9	1710	ccp	sandstone/sand	100	3477	76	25	3107	270	1390.9	30.2	10.1	1242.7	107.9	X88/0014-1
6608/11-4	1740	1740	cut	sandstone/sand	15	6465	477	523	4951	514	1293.0	95.3	104.7	990.2	102.8	X88/0023-1
6608/11-4	1872	1872	com	bulk fraction		14321	257	289	6876	6899	72.7	1.3	1.5	34.9	35.0	X88/0043-0
6608/11-4	2124	2124	cut	shale/claystone	10	23376	496	662	19757	2460	253.5	5.4	7.2	214.3	26.7	X88/0032-2

Table 8d-e Extraction ratios: EXTRRAT

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	%Lith.	Table 8d					Table 8e			Sample number
						Sat/ EOM	Aro/ EOM	Asph/ EOM	NSO/ EOM	HC/ EOM	Non-HC/ EOM	Sat/ Aro	HC/ Non-HC	
6608/11-4	1662.4	1662.45	ccp	sandstone/sand	100	40.55	35.97	8.1	15.37	76.53	23.47	1.13	3.26	X88/0001-1
6608/11-4	1666.9	1667	ccp	sandstone/sand	100	41.22	42.44	2.7	13.64	83.66	16.34	0.97	5.12	X88/0003-1
6608/11-4	1679.1	1679.2	ccp	coal	100	2.2	14.97	57.29	25.54	17.17	82.83	0.15	0.21	X88/0007-1
6608/11-4	1688	1688.05	ccp	sandstone/sand	100	2.32	2.32	7.28	88.08	4.64	95.36	1	0.05	X88/0009-1
6608/11-4	1709.9	1710	ccp	sandstone/sand	100	2.18	0.73	7.75	89.34	2.91	97.09	3	0.03	X88/0014-1
6608/11-4	1740	1740	cut	sandstone/sand	15	7.37	8.1	7.94	76.6	15.47	84.53	0.91	0.18	X88/0023-1
6608/11-4	1872	1872	com	bulk fraction		1.79	2.02	48.17	48.01	3.81	96.19	0.89	0.04	X88/0043-0
6608/11-4	2124	2124	cut	shale/claystone	10	2.12	2.83	10.53	84.52	4.95	95.05	0.75	0.05	X88/0032-2

Table 8f. Iatroscan data (wts): IATRABS

Well name	Upper depth (m)	Lower depth (m)	Sample type	Sample Desc	EOM								Tot. EOM (calc.)	Sample number
					%Lith.	weighed	Sat.	Aro.	Resins	Asph.	Tot. HC	Tot. pol.		
6608/11-4	1662.4	1662.45	ccp	sandstone/sand	100	97.12	41.79	43.66	3.8	7.87	85.45	11.66	97.12	X88/0001-1
6608/11-4	1666.9	1667	ccp	sandstone/sand	100	134.98	60.48	64.81	6.05	3.64	125.29	9.69	134.98	X88/0003-1
6608/11-4	1679.1	1679.2	ccp	coal	100	20.9	0.99	5.81	2.12	11.97	6.8	14.09	20.9	X88/0007-1
6608/11-4	1688	1688.05	ccp	sandstone/sand	100	5.87	0.62	0	4.83	0.43	0.62	5.26	5.87	X88/0009-1
6608/11-4	1709.9	1710	ccp	sandstone/sand	100	3.48	0.22	0	2.99	0.27	0.22	3.26	3.48	X88/0014-1
6608/11-4	1740	1740	cut	sandstone/sand	15	6.47	1.71	0.83	3.42	0.51	2.53	3.93	6.47	X88/0023-1
6608/11-4	1872	1872	com	bulk fraction		14.32	0.82	0.48	6.12	6.9	1.3	13.02	14.32	X88/0043-0
6608/11-4	2124	2124	cut	shale/claystone	10	23.38	1.34	0.77	18.81	2.46	2.11	21.27	23.38	X88/0032-2

Table 8g. Iatroscan data, relative percentages: IATRREL

Well name	Upper depth (m)	Lower depth (m)	Sample type	Sample Desc	Relative Percentages								Sample number
					%Lith.	%Sat.	%Aro.	%Resins	%Asph.	%Tot. HC	%Tot. pol.		
6608/11-4	1662.4	1662.45	ccp	sandstone/sand	100	43.03	44.96	3.91	8.1	87.99	12.01	X88/0001-1	
6608/11-4	1666.9	1667	ccp	sandstone/sand	100	44.8	48.02	4.48	2.7	92.82	7.18	X88/0003-1	
6608/11-4	1679.1	1679.2	ccp	coal	100	4.74	27.82	10.15	57.29	32.56	67.44	X88/0007-1	
6608/11-4	1688	1688.05	ccp	sandstone/sand	100	10.51	0	82.21	7.28	10.51	89.49	X88/0009-1	
6608/11-4	1709.9	1710	ccp	sandstone/sand	100	6.24	0	86	7.75	6.24	93.76	X88/0014-1	
6608/11-4	1740	1740	cut	sandstone/sand	15	26.41	12.79	52.87	7.94	39.2	60.8	X88/0023-1	
6608/11-4	1872	1872	com	bulk fraction		5.7	3.37	42.77	48.17	9.06	90.94	X88/0043-0	
6608/11-4	2124	2124	cut	shale/claystone	10	5.72	3.29	80.46	10.53	9.01	90.99	X88/0032-2	

Table 9Aa Saturated GC peak areas: SATGCPA

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	%Lith.	nC15	nC16	Norpristane	nC17	Pristane	nC18	Phytane	nC19	nC20
6608/11-4	1662.4	1662.45	ccp	sandstone/sand	100	1	0	0	0	0	0	0	0	0
6608/11-4	1666.9	1667	ccp	sandstone/sand	100	1	0	0	0	0	0	0	0	0
6608/11-4	1679.1	1679.2	ccp	coal	100	0	0	0	0	0	0	0	0	0
6608/11-4	1688	1688.05	ccp	sandstone/sand	100	58453	130877	52559	189728	164654	175691	87348	99269	95456
6608/11-4	1709.9	1710	ccp	sandstone/sand	100	246014	375437	83887	304082	235677	295761	180326	279794	218370
6608/11-4	1740	1740	cut	sandstone/sand	15	1529351	1372412	301118	725616	396280	280206	222516	281959	130964
6608/11-4	1872	1872	com	bulk fraction		11725950	9924854	2166449	4327133	2494596	1141883	650883	851487	459157
6608/11-4	2124	2124	cut	shale/claystone	10	8592237	7498503	1814099	3664862	2614592	976123	554798	1047971	646311

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	%Lith.	nC21	nC22	nC23	nC24	nC25	nC26	nC27	nC28	nC29	nC30
6608/11-4	1662.4	1662.45	ccp	sandstone	100	0	0	0	0	0	0	0	0	0	0
6608/11-4	1666.9	1667	ccp	sandstone	100	0	0	0	0	0	0	0	0	0	0
6608/11-4	1679.1	1679.2	ccp	coal	100	290690	273029	548009	547401	1689029	750751	1804804	1161977	2513137	526797
6608/11-4	1688	1688.05	ccp	sandstone	100	56918	63164	26200	45804	24352	0	38813	0	49389	23331
6608/11-4	1709.9	1710	ccp	sandstone	100	177102	127296	98144	91432	65855	0	66615	0	79469	54830
6608/11-4	1740	1740	cut	sandstone	15	192992	181340	112182	99751	215487	377751	254777	463282	252352	0
6608/11-4	1872	1872	com	bulk fraction		448111	454056	891041	568465	1515438	1031008	1250505	904342	1291286	415141
6608/11-4	2124	2124	cut	shale/clay	10	1028779	761346	1922249	1150583	3976224	1491499	3723748	1803593	3444386	1155449

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	%Lith.	nC31	nC32	nC33	nC34	Sample number
6608/11-4	1662.4	1662.45	ccp	sandstone	100	0	0	0	0	X88/0001
6608/11-4	1666.9	1667	ccp	sandstone	100	0	0	0	0	X88/0003
6608/11-4	1679.1	1679.2	ccp	coal	100	1831975	496526	447229	73651	X88/0007
6608/11-4	1688	1688.05	ccp	sandstone	100	56023	12113	22725	7124	X88/0009
6608/11-4	1709.9	1710	ccp	sandstone	100	59050	25484	41794	15657	X88/0014
6608/11-4	1740	1740	cut	sandstone	15	0	0	0	0	X88/0023
6608/11-4	1872	1872	com	bulk fraction		707948	286673	244040	75704	X88/0043
6608/11-4	2124	2124	cut	shale/clay	10	3156198	668705	605049	35782	X88/0032

Table 9Ab Saturated GC peak heights: SATGCPH

Well name	Upper depth (m)	Lower depth (m)	Sample type	Sample Desc	%Lith.	Norprist									
						nC15	nC16	ane	nC17	Pristane	nC18	Phytane	nC19	nC20	
6608/11-4	1662.4	1662.45	ccp	sandstone/sand	100	1	0	0	0	0	0	0	0	0	0
6608/11-4	1666.9	1667	ccp	sandstone/sand	100	1	0	0	0	0	0	0	0	0	0
6608/11-4	1679.1	1679.2	ccp	coal	100	0	0	0	0	0	0	0	0	0	0
6608/11-4	1688	1688.05	ccp	sandstone/sand	100	10492	20497	9992	39227	28535	32693	11705	14383	11775	
6608/11-4	1709.9	1710	ccp	sandstone/sand	100	52077	80389	11100	63816	33896	57128	25301	46422	37782	
6608/11-4	1740	1740	cut	sandstone/sand	15	308701	248173	44018	106178	52359	44322	26977	42455	19229	
6608/11-4	1872	1872	com	bulk fraction		1410306	1209534	267261	547562	288348	179483	73892	129888	73024	
6608/11-4	2124	2124	cut	shale/claystone	10	1125811	1095391	231803	513626	330346	180883	75147	178994	117136	

Well name	Upper depth (m)	Lower depth (m)	Sample type	Sample Desc	%Lith.	Norprist									
						nC21	nC22	nC23	nC24	nC25	nC26	nC27	nC28	nC29	nC30
6608/11-4	1662.4	1662.45	ccp	sandstone	100	0	0	0	0	0	0	0	0	0	0
6608/11-4	1666.9	1667	ccp	sandstone	100	0	0	0	0	0	0	0	0	0	0
6608/11-4	1679.1	1679.2	ccp	coal	100	54022	45086	112176	102218	294085	132109	417957	191961	480912	94117
6608/11-4	1688	1688.05	ccp	sandstone	100	9097	8546	6214	6566	5613	0	10164	0	11756	4584
6608/11-4	1709.9	1710	ccp	sandstone	100	29733	26929	23169	18611	15366	0	16976	0	15414	8793
6608/11-4	1740	1740	cut	sandstone	15	29509	23824	24972	17976	45538	63317	61251	75109	57683	0
6608/11-4	1872	1872	com	bulk fraction		74395	88540	170574	102250	275716	88731	319731	124944	262836	77159
6608/11-4	2124	2124	cut	shale/clay	10	178016	143322	351534	206133	623770	161639	723209	285178	606451	218446

Well name	Upper depth (m)	Lower depth (m)	Sample type	Sample Desc	%Lith.	Norprist				Sample number
						nC31	nC32	nC33	nC34	
6608/11-4	1662.4	1662.45	ccp	sandstone	100	0	0	0	0	X88/0001-1
6608/11-4	1666.9	1667	ccp	sandstone	100	0	0	0	0	X88/0003-1
6608/11-4	1679.1	1679.2	ccp	coal	100	266678	88847	99062	16039	X88/0007-1
6608/11-4	1688	1688.05	ccp	sandstone	100	11341	2551	5352	1370	X88/0009-1
6608/11-4	1709.9	1710	ccp	sandstone	100	13207	5302	6936	3305	X88/0014-1
6608/11-4	1740	1740	cut	sandstone	15	0	0	0	0	X88/0023-1
6608/11-4	1872	1872	com	bulk fraction		156921	41293	55427	14520	X88/0043-0
6608/11-4	2124	2124	cut	shale/clay	10	470489	95134	155642	7929	X88/0032-2

Table 9Ac SATGC Quant. mg/g sat (peak area)

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	%Lith.	nC15	nC16	iC18	nC17	Pr	nC18	Ph	nC19	nC20
6608/11-4	1662.4	1662.45	ccp	sandstone/sand	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6608/11-4	1666.9	1667	ccp	sandstone/sand	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6608/11-4	1679.1	1679.2	ccp	coal	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6608/11-4	1688	1688.05	ccp	sandstone/sand	100	1.0	2.2	0.9	3.2	2.8	3.0	1.5	1.7	1.6
6608/11-4	1709.9	1710	ccp	sandstone/sand	100	3.5	5.3	1.2	4.3	3.3	4.2	2.5	3.9	3.1
6608/11-4	1740	1740	cut	sandstone/sand	15	9.2	8.3	1.8	4.4	2.4	1.7	1.3	1.7	0.8
6608/11-4	1872	1872	com	bulk fraction		57.4	48.6	10.6	21.2	12.2	5.6	3.2	4.2	2.2
6608/11-4	2124	2124	cut	shale/claystone	10	50.0	43.6	10.6	21.3	15.2	5.7	3.2	6.1	3.8

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	%Lith.	nC21	nC22	nC23	nC24	nC25	nC26	nC27	nC28	nC29	nC30
6608/11-4	1662.4	1662.45	ccp	sandstone/sand	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6608/11-4	1666.9	1667	ccp	sandstone/sand	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6608/11-4	1679.1	1679.2	ccp	coal	100	73.1	68.6	137.8	137.6	424.6	188.7	453.7	292.1	631.8	132.4
6608/11-4	1688	1688.05	ccp	sandstone/sand	100	1.0	1.1	0.4	0.8	0.4	0.0	0.7	0.0	0.8	0.4
6608/11-4	1709.9	1710	ccp	sandstone/sand	100	2.5	1.8	1.4	1.3	0.9	0.0	0.9	0.0	1.1	0.8
6608/11-4	1740	1740	cut	sandstone/sand	15	1.2	1.1	0.7	0.6	1.3	2.3	1.5	2.8	1.5	0.0
6608/11-4	1872	1872	com	bulk fraction		2.2	2.2	4.4	2.8	7.4	5.0	6.1	4.4	6.3	2.0
6608/11-4	2124	2124	cut	shale/claystone	10	6.0	4.4	11.2	6.7	23.1	8.7	21.7	10.5	20.0	6.7

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	%Lith.	nC31	nC32	nC33	nC34	Sample number
6608/11-4	1662.4	1662.45	ccp	sandstone/sand	100	0.0	0.0	0.0	0.0	X88/0001-1
6608/11-4	1666.9	1667	ccp	sandstone/sand	100	0.0	0.0	0.0	0.0	X88/0003-1
6608/11-4	1679.1	1679.2	ccp	coal	100	460.6	124.8	112.4	18.5	X88/0007-1
6608/11-4	1688	1688.05	ccp	sandstone/sand	100	0.9	0.2	0.4	0.1	X88/0009-1
6608/11-4	1709.9	1710	ccp	sandstone/sand	100	0.8	0.4	0.6	0.2	X88/0014-1
6608/11-4	1740	1740	cut	sandstone/sand	15	0.0	0.0	0.0	0.0	X88/0023-1
6608/11-4	1872	1872	com	bulk fraction		3.5	1.4	1.2	0.4	X88/0043-0
6608/11-4	2124	2124	cut	shale/claystone	10	18.4	3.9	3.5	0.2	X88/0032-2

Table 9Ba Saturated GC ratios, peak area: SATGCRPA

Well name	Upper depth (m)	Lower depth (m)	Sample type	Sample Desc	%Lith.	Prist./ nC17	Prist./ Phyt.	(Prist./nC17)/ (Phyt./nC18)	CPI 1	Phytane/ nC18	nC17 / (nC17+nC27)	(Pristane+Phytane)/ (nC17+nC18)	Sample number
6608/11-4	1662.4	1662.45	ccp	sandstone/sand	100	0	0	0	0	0	0	0	X88/0001-1
6608/11-4	1666.9	1667	ccp	sandstone/sand	100	0	0	0	0	0	0	0	X88/0003-1
6608/11-4	1679.1	1679.2	ccp	coal	100	0	0	0	2.65	0	0	0	X88/0007-1
6608/11-4	1688	1688.05	ccp	sandstone/sand	100	0.87	1.89	1.75	3.6	0.5	0.83	0.69	X88/0009-1
6608/11-4	1709.9	1710	ccp	sandstone/sand	100	0.78	1.31	1.27	2.61	0.61	0.82	0.69	X88/0014-1
6608/11-4	1740	1740	cut	sandstone/sand	15	0.55	1.78	0.69	0.81	0.79	0.74	0.62	X88/0023-1
6608/11-4	1872	1872	com	bulk fraction		0.58	3.83	1.01	1.72	0.57	0.78	0.58	X88/0043-0
6608/11-4	2124	2124	cut	shale/claystone	10	0.71	4.71	1.26	2.67	0.57	0.5	0.68	X88/0032-2

Table 9Bb Saturated GC ratios, peak heights: SATGCRPH

Well name	Upper depth (m)	Lower depth (m)	Sample type	Sample Desc	%Lith.	Prist./ nC17	Prist./ Phyt.	(Prist./nC17)/ (Phyt./nC18)	CPI 1	Phytane/ nC18	nC17/ (nC17+nC27)	(Pristane+Phytane)/ (nC17+nC18)	Sample number
6608/11-4	1662.4	1662.45	ccp	sandstone/sand	100	0	0	0	0	0	0	0	X88/0001-1
6608/11-4	1666.9	1667	ccp	sandstone/sand	100	0	0	0	0	0	0	0	X88/0003-1
6608/11-4	1679.1	1679.2	ccp	coal	100	0	0	0	2.84	0	0	0	X88/0007-1
6608/11-4	1688	1688.05	ccp	sandstone/sand	100	0.73	2.44	2.03	4.47	0.36	0.79	0.56	X88/0009-1
6608/11-4	1709.9	1710	ccp	sandstone/sand	100	0.53	1.34	1.2	3.27	0.44	0.79	0.49	X88/0014-1
6608/11-4	1740	1740	cut	sandstone/sand	15	0.49	1.94	0.81	1.12	0.61	0.63	0.53	X88/0023-1
6608/11-4	1872	1872	com	bulk fraction		0.53	3.9	1.28	2.82	0.41	0.63	0.5	X88/0043-0
6608/11-4	2124	2124	cut	shale/claystone	10	0.64	4.4	1.55	2.98	0.42	0.42	0.58	X88/0032-2

Table 9Ca Aromatic GC peak areas: AROGCPA

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	%Lith.	2.6+2.7										1.3.7 TMN	1.3.6 TMN	1.3.5 TMN	1.4.6+ 2.3.6 TMN
						2MN	1MN	BPh	2EN	1EN	DMN	1.6DMN	1.5DMN	0	0				
6608/11-4	1662.4	1662.45	ccp	sandstone/sand	100	1	0	0	0	0	0	0	0	0	0	0	0	0	0
6608/11-4	1666.9	1667	ccp	sandstone/sand	100	1	0	0	0	0	0	0	0	0	0	0	0	0	0
6608/11-4	1679.1	1679.2	ccp	coal	100	1	0	0	0	0	0	0	0	0	0	0	0	0	0
6608/11-4	1688	1688.05	ccp	sandstone/sand	100	1	0	0	0	0	0	0	0	0	0	0	0	0	0
6608/11-4	1709.9	1710	ccp	sandstone/sand	100	1	0	0	0	0	0	0	0	0	0	0	0	0	0
6608/11-4	1740	1740	cut	sandstone/sand	15	5667	5549	6159	6350	3282	15538	18466	13343	0	0	0	0	0	
6608/11-4	1872	1872	com	bulk fraction		31385	22879	17631	22135	7582	46186	56920	22344	31708	49970	30874	29666		
6608/11-4	2124	2124	cut	shale/claystone	10	18085	22652	6893	22345	12197	33986	62482	28046	40181	65341	72507	27831		

  

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	%Lith.	P	2+3							1 MDBT	Sample number	
							3MP	2MP	9MP	1MP	DBT	4 MDBT	MDBT			MDBT
6608/11-4	1662.4	1662.45	ccp	sandstone/sand	100	0	0	0	0	0	0	0	0	0	0	X88/0001-1
6608/11-4	1666.9	1667	ccp	sandstone/sand	100	0	0	0	0	0	0	0	0	0	0	X88/0003-1
6608/11-4	1679.1	1679.2	ccp	coal	100	0	0	0	0	0	0	0	0	0	0	X88/0007-1
6608/11-4	1688	1688.05	ccp	sandstone/sand	100	0	0	0	0	0	0	0	0	0	0	X88/0009-1
6608/11-4	1709.9	1710	ccp	sandstone/sand	100	0	0	0	0	0	0	0	0	0	0	X88/0014-1
6608/11-4	1740	1740	cut	sandstone/sand	15	0	0	0	0	0	0	0	0	0	0	X88/0023-1
6608/11-4	1872	1872	com	bulk fraction		0	0	0	0	0	0	0	0	0	0	X88/0043-0
6608/11-4	2124	2124	cut	shale/claystone	10	112562	36245	36942	0	59976	0	0	0	0	0	X88/0032-2



Table 9Cb Aromatic GC peak heights: AROGCPH

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	%Lith.	2MN	1MN	BPh	2EN	1EN	2.6+ 2.7DMN	1.6DMN	1.5DMN	1.3.7 TMN	1.3.6 TMN	1.3.5 TMN	1.4.6+ 2.3.6TMN
6608/11-4	1662.4	1662.45	ccp	sandstone/sand	100	1	0	0	0	0	0	0	0	0	0	0	0
6608/11-4	1666.9	1667	ccp	sandstone/sand	100	1	0	0	0	0	0	0	0	0	0	0	0
6608/11-4	1679.1	1679.2	ccp	coal	100	1	0	0	0	0	0	0	0	0	0	0	0
6608/11-4	1688	1688.05	ccp	sandstone/sand	100	1	0	0	0	0	0	0	0	0	0	0	0
6608/11-4	1709.9	1710	ccp	sandstone/sand	100	1	0	0	0	0	0	0	0	0	0	0	0
6608/11-4	1740	1740	cut	sandstone/sand	15	1332	1410	858	1453	749	2658	3534	2816	0	0	0	0
6608/11-4	1872	1872	com	bulk fraction		6507	5726	2988	5440	1925	8758	11968	6260	6464	11742	8734	7368
6608/11-4	2124	2124	cut	shale/claystone	10	2980	5286	1068	5507	2680	5606	11671	7863	9207	16864	20498	7489

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	%Lith.	P	3MP	2MP	9MP	1MP	DBT	4 MDBT	2+3 MDBT	1 MDBT	Sample number
6608/11-4	1662.4	1662.45	ccp	sandstone/sand	100	0	0	0	0	0	0	0	0	0	X88/0001-
6608/11-4	1666.9	1667	ccp	sandstone/sand	100	0	0	0	0	0	0	0	0	0	X88/0003-
6608/11-4	1679.1	1679.2	ccp	coal	100	0	0	0	0	0	0	0	0	0	X88/0007-
6608/11-4	1688	1688.05	ccp	sandstone/sand	100	0	0	0	0	0	0	0	0	0	X88/0009-
6608/11-4	1709.9	1710	ccp	sandstone/sand	100	0	0	0	0	0	0	0	0	0	X88/0014-
6608/11-4	1740	1740	cut	sandstone/sand	15	0	0	0	0	0	0	0	0	0	X88/0023-
6608/11-4	1872	1872	com	bulk fraction		0	0	0	0	0	0	0	0	0	X88/0043-
6608/11-4	2124	2124	cut	shale/claystone	10	28329	9535	8440	0	10257	0	0	0	0	X88/0032-

Table 9Da Aromatic GC ratios, peak area: AROGCRPA

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	%Lith.	MNR	DMNR	BPhR	2/1MP	MPI 1	MPI 2	Rc	DBT/ Ph	4/1 MDBT	(3+2)/ 1MDBT	F1	F2	Sample number	
6608/11-4	1662.4	1662.45	ccp	sandstone/sand	100	0	0	0	0	0	0	0	0	0	0	0	0	0	X88/0001-1
6608/11-4	1666.9	1667	ccp	sandstone/sand	100	0	0	0	0	0	0	0	0	0	0	0	0	0	X88/0003-1
6608/11-4	1679.1	1679.2	ccp	coal	100	0	0	0	0	0	0	0	0	0	0	0	0	0	X88/0007-1
6608/11-4	1688	1688.05	ccp	sandstone/sand	100	0	0	0	0	0	0	0	0	0	0	0	0	0	X88/0009-1
6608/11-4	1709.9	1710	ccp	sandstone/sand	100	0	0	0	0	0	0	0	0	0	0	0	0	0	X88/0014-1
6608/11-4	1740	1740	cut	sandstone/sand	15	1.02	1.16	0.33	0	0	0	0	0	0	0	0	0	0	X88/0023-1
6608/11-4	1872	1872	com	bulk fraction		1.37	2.07	0.31	0	0	0	0	0	0	0	0	0	0	X88/0043-0
6608/11-4	2124	2124	cut	shale/claystone	10	0.8	1.21	0.11	0.62	0.64	0.64	0.78	0	0	0	0.55	0.28	X88/0032-2	

Table 9Db Aromatic GC ratios, peak heights: AROGCRPH

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	%Lith.	MNR	DMNR	BPhR	2/1MP	MPI 1	MPI 2	Rc	DBT/ Ph	4/1 MDBT	(3+2)/ 1MDBT	F1	F2	Sample number	
6608/11-4	1662.4	1662.45	ccp	sandstone/sand	100	0	0	0	0	0	0	0	0	0	0	0	0	0	X88/0001-1
6608/11-4	1666.9	1667	ccp	sandstone/sand	100	0	0	0	0	0	0	0	0	0	0	0	0	0	X88/0003-1
6608/11-4	1679.1	1679.2	ccp	coal	100	0	0	0	0	0	0	0	0	0	0	0	0	0	X88/0007-1
6608/11-4	1688	1688.05	ccp	sandstone/sand	100	0	0	0	0	0	0	0	0	0	0	0	0	0	X88/0009-1
6608/11-4	1709.9	1710	ccp	sandstone/sand	100	0	0	0	0	0	0	0	0	0	0	0	0	0	X88/0014-1
6608/11-4	1740	1740	cut	sandstone/sand	15	0.94	0.94	0.24	0	0	0	0	0	0	0	0	0	0	X88/0023-1
6608/11-4	1872	1872	com	bulk fraction		1.14	1.4	0.25	0	0	0	0	0	0	0	0	0	0	X88/0043-0
6608/11-4	2124	2124	cut	shale/claystone	10	0.56	0.71	0.09	0.82	0.7	0.66	0.82	0	0	0	0.64	0.3	X88/0032-2	

Table 10 Carbon isotope data: CARBISOT

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	Whole oil	Topped oil/EOM	Sat	Aro	NSO	Asph	Kerogen	Canonical Variable	Sample number
6608/11-4	1662.4	1662.45	ccp	bulk fraction	-	-28.99	-29.51	-28.43	-29.03	-28.78	-	-0.10	X88/0001-0
6608/11-4	1666.9	1667	ccp	bulk fraction	-	-28.87	-29.62	-28.39	-29.10	-28.74	-	0.26	X88/0003-0
6608/11-4	1679.1	1679.2	ccp	bulk fraction	-	-27.00	-28.97	-26.90	-27.80	-26.03	-	1.93	X88/0007-0
6608/11-4	1688	1688.05	ccp	bulk fraction	-	-29.81	-27.99	-31.95	-30.45	-28.99	-	-11.76	X88/0009-0
6608/11-4	1709.9	1710	ccp	bulk fraction	-	-30.32	-26.96	-32.46	-30.44	-28.51	-	-15.50	X88/0014-0
6608/11-4	1740	1740	cut	bulk fraction	-	-30.15	-28.59	-28.50	-30.63	-28.84	-	-2.59	X88/0023-0
6608/11-4	1872	1872	com	bulk fraction	-	-29.82	-28.45	-27.33	-30.49	-27.95	-	-0.34	X88/0043-0
6608/11-4	2124	2124	cut	bulk fraction	-	-30.15	-28.72	-28.91	-30.79	-28.34	-	-3.17	X88/0032-0

Table 11a Triterpanes peak heights, SIR: TRITPHS

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	23/3 (P)	24/3 (Q)	25/3 (R)	24/4 (S)	26/3 (T)	27Ts (A)	27Tm (B)	28ab (Z)	25nor30a b (Z1)
6608/11-4	1662.4	1662.45	ccp	sandstone/sand	100	107066	91285	40653	87418	33121	210790	194437	153883	474327
6608/11-4	1666.9	1667	ccp	sandstone/sand	100	112407	93044	42972	97796	36420	218431	234657	150389	519730
6608/11-4	1679.1	1679.2	ccp	coal	100	703	282	0	0	0	931	2187	77998	1761
6608/11-4	1688	1688.05	ccp	sandstone/sand	100	3014	807	218	351	84	499	592	2105	497
6608/11-4	1709.9	1710	ccp	sandstone/sand	100	10162	4144	1701	3585	932	5634	6735	2104	5555
6608/11-4	1740	1740	cut	sandstone/sand	15	2875	1951	854	2168	566	4834	4942	7260	7457
6608/11-4	1872	1872	com	bulk fraction		3852	2948	1129	3088	914	9830	9992	13325	12394
6608/11-4	2124	2124	cut	shale/claystone	10	16058	11072	4573	15122	5809	61495	81511	21760	49270

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	29ab (C)	29Ts (C1)	30d (X)	29ba (D)	30O	30ab (E)	30ba (F)	30G	31abS (G)	31abR (H)	31ba (I)
6608/11-4	1662.4	1662.45	ccp	sandstone/sand	100	589246	217110	163219	95591	0	1158475	133483	47369	350863	245707	48192
6608/11-4	1666.9	1667	ccp	sandstone/sand	100	561417	208692	150432	81672	0	1108570	130444	49423	365486	237859	53373
6608/11-4	1679.1	1679.2	ccp	coal	100	2965	1913	483	2577	0	2997	3223	0	180	2432	0
6608/11-4	1688	1688.05	ccp	sandstone/sand	100	1495	467	139	359	0	2030	422	79	690	725	584
6608/11-4	1709.9	1710	ccp	sandstone/sand	100	15027	4371	1560	1543	0	17252	1946	853	4864	3714	820
6608/11-4	1740	1740	cut	sandstone/sand	15	10440	3799	1955	1650	0	16332	741	995	3579	2871	0
6608/11-4	1872	1872	com	bulk fraction		31387	12229	3471	8374	0	36275	0	2349	5912	9253	0
6608/11-4	2124	2124	cut	shale/claystone	10	185672	0	23590	85164	0	410544	196083	52129	42410	174035	0

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	32abS (J1)	32abR (J2)	33abS (K1)	33abR (K2)	34abS (L1)	34abR (L2)	35abS (M1)	35abR (M2)	Sample number
6608/11-4	1662.4	1662.45	ccp	sandstone/sand	100	234110	159448	200412	127026	138525	84312	106472	72608	X88/0001-1
6608/11-4	1666.9	1667	ccp	sandstone/sand	100	247610	167059	207904	131411	137002	86309	113951	72319	X88/0003-1
6608/11-4	1679.1	1679.2	ccp	coal	100	0	0	0	0	0	0	0	0	X88/0007-1
6608/11-4	1688	1688.05	ccp	sandstone/sand	100	404	380	560	229	198	181	188	177	X88/0009-1
6608/11-4	1709.9	1710	ccp	sandstone/sand	100	2600	1762	1737	1072	988	735	1007	904	X88/0014-1
6608/11-4	1740	1740	cut	sandstone/sand	15	1835	1297	1310	763	908	538	721	684	X88/0023-1
6608/11-4	1872	1872	com	bulk fraction		2960	2830	2949	1270	1168	649	1020	636	X88/0043-0
6608/11-4	2124	2124	cut	shale/claystone	10	18781	32420	20880	13144	5450	3975	5391	2186	X88/0032-2

Table 11b Triterpanes m/z 177 peak heights, SIR: TR177PHS

<b>Well name</b>	<b>Upper depth (m)</b>	<b>Lower depth (m)</b>	<b>Sample type</b>	<b>Description</b>	<b>% Lith.</b>	<b>25nor28ab</b>	<b>25nor30ab</b>	<b>Sample number</b>
6608/11-4	1662.4	1662.45	ccp	sandstone/sand	100	322714	368340	X88/0001-1
6608/11-4	1666.9	1667	ccp	sandstone/sand	100	346936	410020	X88/0003-1
6608/11-4	1679.1	1679.2	ccp	coal	100	0	943	X88/0007-1
6608/11-4	1688	1688.05	ccp	sandstone/sand	100	1571	374	X88/0009-1
6608/11-4	1709.9	1710	ccp	sandstone/sand	100	6069	4485	X88/0014-1
6608/11-4	1740	1740	cut	sandstone/sand	15	9090	4766	X88/0023-1
6608/11-4	1872	1872	com	bulk fraction		11245	8345	X88/0043-0
6608/11-4	2124	2124	cut	shale/claystone	10	34412	39819	X88/0032-2

Table 11c Steranes peak heights, SIR: STERPHS

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	21a (u)	22a (v)	27dbS (a)	27dbR (b)	27daR (c)	27daS (d)	28dbS (e)	28dbR (f)	28daR +27aaS (g)
6608/11-4	1662.4	1662.45	ccp	sandstone/sand	100	150604	95880	289532	203237	87084	88026	185900	109650	126317
6608/11-4	1666.9	1667	ccp	sandstone/sand	100	184018	99552	296914	206231	90165	92135	199262	121217	145289
6608/11-4	1679.1	1679.2	ccp	coal	100	3636	923	241	559	207	0	341	127	913
6608/11-4	1688	1688.05	ccp	sandstone/sand	100	1475	445	381	2060	176	123	379	132	3140
6608/11-4	1709.9	1710	ccp	sandstone/sand	100	7046	3099	5484	8400	2371	1646	3550	67	7331
6608/11-4	1740	1740	cut	sandstone/sand	15	5104	2264	4223	5508	2015	1827	4158	2276	2537
6608/11-4	1872	1872	com	bulk fraction		7080	4050	6521	8520	3696	3306	6535	3527	6989
6608/11-4	2124	2124	cut	shale/claystone	10	29708	22590	33370	31898	16789	12879	24371	15307	55284

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	29dbS +27bbR (h)	28daS +27bbS (i)	27aaR (j)	29dbR (k)	29daR (l)
6608/11-4	1662.4	1662.45	ccp	sandstone/sand	100	327115	185346	143988	230054	97072
6608/11-4	1666.9	1667	ccp	sandstone/sand	100	350091	208672	157540	253220	108840
6608/11-4	1679.1	1679.2	ccp	coal	100	1064	1503	926	507	462
6608/11-4	1688	1688.05	ccp	sandstone/sand	100	432	126	7910	0	248
6608/11-4	1709.9	1710	ccp	sandstone/sand	100	6464	3319	17296	3774	1442
6608/11-4	1740	1740	cut	sandstone/sand	15	6719	4250	3424	5006	2099
6608/11-4	1872	1872	com	bulk fraction		10508	6529	5641	7646	3378
6608/11-4	2124	2124	cut	shale/claystone	10	51513	27887	34212	33963	24333

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	28aaS (m)	29daS +28bbR (n)	28bbS (o)	28aaR (p)	29aaS (q)	29bbR (r)	29bbS (s)	29aaR (t)	Sample number
6608/11-4	1662.4	1662.45	ccp	sandstone/sand	100	93830	153374	221078	87089	172075	267017	206341	176583	X88/0001-1
6608/11-4	1666.9	1667	ccp	sandstone/sand	100	107311	188565	273408	109920	191941	291277	232009	194146	X88/0003-1
6608/11-4	1679.1	1679.2	ccp	coal	100	1981	1074	739	644	333	6787	0	2672	X88/0007-1
6608/11-4	1688	1688.05	ccp	sandstone/sand	100	155	325	0	303	134	358	142	123	X88/0009-1
6608/11-4	1709.9	1710	ccp	sandstone/sand	100	1124	2642	3256	1149	1727	3267	3106	2505	X88/0014-1
6608/11-4	1740	1740	cut	sandstone/sand	15	2071	3361	4227	1702	2639	4316	3327	2478	X88/0023-1
6608/11-4	1872	1872	com	bulk fraction		4480	6887	7480	5095	5519	9088	7161	8825	X88/0043-0
6608/11-4	2124	2124	cut	shale/claystone	10	14340	43977	38077	31365	27786	47545	50759	67198	X88/0032-2

Table 11d Steranes m/z 218 peak heights, SIR: ST218PHS

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	27bbR (h)	27bbS (i)	28bbR (n)	28bbS (o)	29bbR (r)	29bbS (s)	30bbR (x)	30bbS (y)	Sample number
6608/11-4	1662.4	1662.45	ccp	sandstone/sand	100	265769	205251	191952	243438	337079	308922	104112	100739	X88/0001-1
6608/11-4	1666.9	1667	ccp	sandstone/sand	100	286625	221111	225974	290591	353420	335418	115606	106624	X88/0003-1
6608/11-4	1679.1	1679.2	ccp	coal	100	768	517	841	639	2895	706	342	785	X88/0007-1
6608/11-4	1688	1688.05	ccp	sandstone/sand	100	361	261	239	258	368	335	112	67	X88/0009-1
6608/11-4	1709.9	1710	ccp	sandstone/sand	100	6587	5173	3882	4477	4336	4835	859	906	X88/0014-1
6608/11-4	1740	1740	cut	sandstone/sand	15	5633	4457	3836	4683	4897	4662	1232	1250	X88/0023-1
6608/11-4	1872	1872	com	bulk fraction		7662	5220	5596	6598	8767	8269	3290	5381	X88/0043-0
6608/11-4	2124	2124	cut	shale/claystone	10	36303	24084	32255	34258	46981	57322	36954	106977	X88/0032-2

Table 11e Triterpanes m/z 191 SIR, quantified in ng compound/g oil (ppb) (peak heights): TRITPHSQ

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.											25nor30ab (Z1)
						23/3 (P)	24/3 (Q)	25/3 (R)	24/4 (S)	26/3 (T)	27Ts (A)	27Tm (B)	28ab (Z)			
6608/11-4	1662.4	1662.45	ccp	sandstone/sand	100	69637	59373	26441	56858	21542	137100	126464	100087	308508		
6608/11-4	1666.9	1667	ccp	sandstone/sand	100	69697	57691	26645	60638	22582	135437	145497	93248	322255		
6608/11-4	1679.1	1679.2	ccp	coal	100	3921	1571	0	0	0	5191	12189	434807	9815		
6608/11-4	1688	1688.05	ccp	sandstone/sand	100	1207	323	87	141	34	200	237	843	199		
6608/11-4	1709.9	1710	ccp	sandstone/sand	100	1295	528	217	457	119	718	858	268	708		
6608/11-4	1740	1740	cut	sandstone/sand	15	20086	13626	5963	15146	3954	33764	34523	50716	52087		
6608/11-4	1872	1872	com	bulk fraction		4774	3653	1399	3826	1132	12182	12382	16513	15359		
6608/11-4	2124	2124	cut	shale/claystone	10	2515	1734	716	2368	910	9632	12767	3408	7717		

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.											31abS (G)	31abR (H)	31ba (I)
						29ab (C)	29Ts (C1)	29ba 30d (X)	29ba (D)	30O	30ab (E)	30ba (F)	30G					
6608/11-4	1662.4	1662.45	ccp	sandstone/sand	100	383252	141211	106160	62174	0	753485	86819	30809	228206	159811	31344		
6608/11-4	1666.9	1667	ccp	sandstone/sand	100	348103	129398	93275	50640	0	687362	80881	30644	226617	147483	33093		
6608/11-4	1679.1	1679.2	ccp	coal	100	16530	10662	2695	14366	0	16707	17968	0	1002	13555	0		
6608/11-4	1688	1688.05	ccp	sandstone/sand	100	598	187	56	144	0	813	169	32	276	290	234		
6608/11-4	1709.9	1710	ccp	sandstone/sand	100	1915	557	199	197	0	2199	248	109	620	473	105		
6608/11-4	1740	1740	cut	sandstone/sand	15	72927	26537	13659	11526	0	114084	5174	6948	25000	20054	0		
6608/11-4	1872	1872	com	bulk fraction		38895	15154	4301	10377	0	44953	0	2911	7327	11466	0		
6608/11-4	2124	2124	cut	shale/claystone	10	29081	0	3695	13339	0	64301	30711	8165	6642	27258	0		

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.											Sample number
						32abS (J1)	32abR (J2)	33abS (K1)	33abR (K2)	34abS (L1)	34abR (L2)	35abS (M1)	35abR (M2)			
6608/11-4	1662.4	1662.45	ccp	sandstone/sand	100	152268	103707	130350	82619	90098	54838	69251	47225	X88/0001-1		
6608/11-4	1666.9	1667	ccp	sandstone/sand	100	153529	103584	128909	81481	84947	53515	70655	44841	X88/0003-1		
6608/11-4	1679.1	1679.2	ccp	coal	100	0	0	0	0	0	0	0	0	X88/0007-1		
6608/11-4	1688	1688.05	ccp	sandstone/sand	100	162	152	224	92	79	72	75	71	X88/0009-1		
6608/11-4	1709.9	1710	ccp	sandstone/sand	100	331	225	221	137	126	94	128	115	X88/0014-1		
6608/11-4	1740	1740	cut	sandstone/sand	15	12819	9058	9148	5329	6339	3755	5036	4777	X88/0023-1		
6608/11-4	1872	1872	com	bulk fraction		3668	3506	3654	1574	1447	805	1264	788	X88/0043-0		
6608/11-4	2124	2124	cut	shale/claystone	10	2942	5078	3270	2059	854	623	844	342	X88/0032-2		



Table 11f Triterpanes m/z 177 SIR, quantified in ng compound/g oil (ppb) (peak heights): TRIT177PHSQ

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	25nor28ab	25nor30ab	Sample number
6608/11-4	1662.4	1662.45	ccp	1662.45	100	209897	239572	X88/0001-1
6608/11-4	1666.9	1667	ccp	1667	100	215115	254230	X88/0003-1
6608/11-4	1679.1	1679.2	ccp	1679.2	100	0	5256	X88/0007-1
6608/11-4	1688	1688.05	ccp	1688.05	100	629	150	X88/0009-1
6608/11-4	1709.9	1710	ccp	1710	100	773	572	X88/0014-1
6608/11-4	1740	1740	cut	1740	15	63495	33288	X88/0023-1
6608/11-4	1872	1872	com	1872		13935	10342	X88/0043-0
6608/11-4	2124	2124	cut	2124	10	5390	6237	X88/0032-2

Table 11g Steranes m/z 217 SIR, quantified in ng compound/g oil (ppb) (peak heights): STERPHSQ

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	27dbS 27dbR 27daR 27daS 28dbS 28dbR 28daR								
						21a (u)	22a (v)	(a)	(b)	(c)	(d)	(e)	(f)	+27aaS (g)
6608/11-4	1662.4	1662.45	ccp	sandstone/sand	100	97955	62362	188315	132187	56640	57253	120911	71317	82158
6608/11-4	1666.9	1667	ccp	sandstone/sand	100	114099	61727	184099	127872	55906	57127	123551	75160	90085
6608/11-4	1679.1	1679.2	ccp	coal	100	20268	5146	1346	3117	1156	0	1900	709	5091
6608/11-4	1688	1688.05	ccp	sandstone/sand	100	591	178	153	825	71	49	152	53	1257
6608/11-4	1709.9	1710	ccp	sandstone/sand	100	898	395	699	1071	302	210	452	9	934
6608/11-4	1740	1740	cut	sandstone/sand	15	35651	15814	29498	38472	14074	12764	29047	15900	17718
6608/11-4	1872	1872	com	bulk fraction		8774	5019	8081	10558	4580	4097	8098	4371	8661
6608/11-4	2124	2124	cut	shale/claystone	10	4653	3538	5227	4996	2630	2017	3817	2397	8659

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	28daS							
						29dbS +27bbR (h)	+27bbS (i)	27aaR (j)	29dbR (k)	29daR (l)	28aaS (m)	29daS +28bbR (n)	28bbS (o)
6608/11-4	1662.4	1662.45	ccp	sandstone/sand	100	212759	120551	93652	149630	63136	61028	99756	143792
6608/11-4	1666.9	1667	ccp	sandstone/sand	100	217072	129386	97682	157008	67486	66537	116918	169525
6608/11-4	1679.1	1679.2	ccp	coal	100	5934	8379	5163	2824	2578	11045	5987	4120
6608/11-4	1688	1688.05	ccp	sandstone/sand	100	173	51	3167	0	100	62	130	0
6608/11-4	1709.9	1710	ccp	sandstone/sand	100	824	423	2204	481	184	143	337	415
6608/11-4	1740	1740	cut	sandstone/sand	15	46934	29690	23914	34971	14665	14468	23479	29527
6608/11-4	1872	1872	com	bulk fraction		13022	8091	6990	9475	4186	5552	8535	9270
6608/11-4	2124	2124	cut	shale/claystone	10	8068	4368	5358	5320	3811	2246	6888	5964

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	28aaR 29aaS 29bbR 29bbS 29aaR					Sample number
						(p)	(q)	(r)	(s)	(t)	
6608/11-4	1662.4	1662.45	ccp	sandstone/sand	100	56644	111919	173671	134206	114852	X88/0001-1
6608/11-4	1666.9	1667	ccp	sandstone/sand	100	68155	119012	180605	143856	120379	X88/0003-1
6608/11-4	1679.1	1679.2	ccp	coal	100	3588	1859	37836	0	14895	X88/0007-1
6608/11-4	1688	1688.05	ccp	sandstone/sand	100	121	54	143	57	49	X88/0009-1
6608/11-4	1709.9	1710	ccp	sandstone/sand	100	147	220	416	396	319	X88/0014-1
6608/11-4	1740	1740	cut	sandstone/sand	15	11889	18436	30149	23240	17308	X88/0023-1
6608/11-4	1872	1872	com	bulk fraction		6313	6839	11262	8874	10936	X88/0043-0
6608/11-4	2124	2124	cut	shale/claystone	10	4913	4352	7447	7950	10525	X88/0032-2

Table 11h Steranes m/z 218 SIR, quantified in ng compound/g oil (ppb) (peak heights): STERPHSQ

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	27bbR (h)	27bbS (i)	28bbR (n)	28bbS (o)	29bbR (r)	29bbS (s)	30bbR (x)	30bbS (y)	Sample number
6608/11-4	1662.4	1662.45	ccp	sandstone/sand	100	172859	133497	124848	158335	219240	200926	67715	65522	X88/0001-1
6608/11-4	1666.9	1667	ccp	sandstone/sand	100	177720	137099	140114	180179	219136	207974	71681	66111	X88/0003-1
6608/11-4	1679.1	1679.2	ccp	coal	100	4283	2882	4690	3561	16137	3933	1909	4378	X88/0007-1
6608/11-4	1688	1688.05	ccp	sandstone/sand	100	145	105	96	103	147	134	45	27	X88/0009-1
6608/11-4	1709.9	1710	ccp	sandstone/sand	100	839	659	495	571	553	616	110	115	X88/0014-1
6608/11-4	1740	1740	cut	sandstone/sand	15	39350	31135	26793	32715	34208	32568	8606	8732	X88/0023-1
6608/11-4	1872	1872	com	bulk fraction		9495	6468	6934	8177	10864	10246	4077	6669	X88/0043-0
6608/11-4	2124	2124	cut	shale/claystone	10	5686	3772	5052	5366	7358	8978	5788	16755	X88/0032-2

Table 11i Amount of saturated hydrocarbon standard (d4 cholestane) and weight of sample

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	Standard	Amount	Weight	Sample number
6608/11-4	1662.4	1662.45	ccp	sandstone/sand	100	60770	2.000	50.6	X88/0001-1
6608/11-4	1666.9	1667	ccp	sandstone/sand	100	58014	2.000	55.6	X88/0003-1
6608/11-4	1679.1	1679.2	ccp	coal	100	9516	2.000	37.7	X88/0007-1
6608/11-4	1688	1688.05	ccp	sandstone/sand	100	330805	2.000	15.1	X88/0009-1
6608/11-4	1709.9	1710	ccp	sandstone/sand	100	608281	2.000	25.8	X88/0014-1
6608/11-4	1740	1740	cut	sandstone/sand	15	11362	2.000	25.2	X88/0023-1
6608/11-4	1872	1872	com	bulk fraction		25659	2.000	62.9	X88/0043-0
6608/11-4	2124	2124	cut	shale/claystone	10	210024	2.000	60.8	X88/0032-2

Table 11j Triterpanes m/z 191 peak height ratios, SIR: TRITRATS

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	Ratio 1	Ratio 2	Ratio 3	Ratio 4	Ratio 5	Ratio 6	Ratio 7	Ratio 8	Ratio 9	Ratio 10
6608/11-4	1662.4	1662.45	ccp	sandstone/sand	100	0.92	0.48	0.13	0.51	0.34	0.14	0.13	0.26	0.12	0.08
6608/11-4	1666.9	1667	ccp	sandstone/sand	100	1.07	0.52	0.16	0.51	0.34	0.14	0.14	0.27	0.12	0.08
6608/11-4	1679.1	1679.2	ccp	coal	100	2.35	0.7	0.26	0.99	0.5	0.16	26.03	26.3	0.96	0.09
6608/11-4	1688	1688.05	ccp	sandstone/sand	100	1.19	0.54	0.19	0.74	0.42	0.07	1.04	1.41	0.51	0.40
6608/11-4	1709.9	1710	ccp	sandstone/sand	100	1.20	0.54	0.26	0.87	0.47	0.09	0.12	0.14	0.11	0.24
6608/11-4	1740	1740	cut	sandstone/sand	15	1.02	0.51	0.22	0.64	0.39	0.12	0.44	0.70	0.31	0.12
6608/11-4	1872	1872	com	bulk fraction		1.02	0.50	0.22	0.87	0.46	0.10	0.37	0.42	0.27	0.08
6608/11-4	2124	2124	cut	shale/claystone	10	1.33	0.57	0.12	0.45	0.31	0.06	0.05	0.12	0.05	0.03

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	Ratio 11	Ratio 12	Ratio 13	Ratio 14	Sample number
6608/11-4	1662.4	1662.45	ccp	sandstone/sand	100	0.90	0.35	0.13	59.49	X88/0001-1
6608/11-4	1666.9	1667	ccp	sandstone/sand	100	0.89	0.34	0.13	59.71	X88/0003-1
6608/11-4	1679.1	1679.2	ccp	coal	100	0.48	0.47	0.97	0	X88/0007-1
6608/11-4	1688	1688.05	ccp	sandstone/sand	100	0.83	0.43	0.22	51.57	X88/0009-1
6608/11-4	1709.9	1710	ccp	sandstone/sand	100	0.90	0.46	0.11	59.61	X88/0014-1
6608/11-4	1740	1740	cut	sandstone/sand	15	0.96	0.41	0.09	58.60	X88/0023-1
6608/11-4	1872	1872	com	bulk fraction		1.00	0.52	0.12	51.13	X88/0043-0
6608/11-4	2124	2124	cut	shale/claystone	10	0.68	0.31	0.47	36.68	X88/0032-2

Table 11k Steranes m/z 217 peak height ratios, SIR: STERRATS

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	Ratio 1	Ratio 2	Ratio 3	Ratio 4	Ratio 5	Ratio 6	Ratio 7	Ratio 8	Ratio 9	Ratio 10	Sample number
6608/11-4	1662.4	1662.45	ccp	sandstone/sand	100	0.67	49.35	73.08	0.83	0.73	0.23	0.16	0.58	0.97	2.68	X88/0001-1
6608/11-4	1666.9	1667	ccp	sandstone/sand	100	0.65	49.71	73.05	0.76	0.73	0.24	0.17	0.58	0.99	2.7	X88/0003-1
6608/11-4	1679.1	1679.2	ccp	coal	100	0.21	11.09	81.87	0.32	0.95	0.32	0.24	0.69	0.12	2.54	X88/0007-1
6608/11-4	1688	1688.05	ccp	sandstone/sand	100	0.05	52.2	79.53	2.73	0.79	0.72	0.58	0.66	1.09	4.06	X88/0009-1
6608/11-4	1709.9	1710	ccp	sandstone/sand	100	0.24	40.82	75.08	1.25	0.79	0.49	0.36	0.6	0.69	2.54	X88/0014-1
6608/11-4	1740	1740	cut	sandstone/sand	15	0.55	51.58	74.92	0.79	0.74	0.37	0.25	0.6	1.07	3.08	X88/0023-1
6608/11-4	1872	1872	com	bulk fraction		0.54	38.47	69.38	0.78	0.75	0.27	0.19	0.53	0.63	1.84	X88/0043-0
6608/11-4	2124	2124	cut	shale/claystone	10	0.49	29.25	67.43	0.62	0.78	0.21	0.16	0.51	0.41	1.46	X88/0032-2

Saturated Fraction GCMS Ratio definitions

<b>in Tables</b>	<b>Triterpanes</b>	<b>Steranes</b>
Ratio 1	$27Tm/27Ts$	$27d\beta S/(27d\beta S+27\alpha\alpha R)$
Ratio 2	$27Tm/(27Tm+27Ts)$	$29\alpha\alpha S/(29\alpha\alpha S+29\alpha\alpha R)\%$
Ratio 3	$27Tm/(27Tm+30\alpha\beta+30\beta\alpha)$	$2*(29\beta\beta R+29\beta\beta S)/(29\alpha\alpha S+29\alpha\alpha R+2*[29\beta\beta R+29\beta\beta S])\%$
Ratio 4	$29\alpha\beta/30\alpha\beta$	$(27d\beta S+27d\beta R+27d\alpha R+27d\alpha S)/(29d\beta S+29d\beta R+29d\alpha R+29d\alpha S)$
Ratio 5	$29\alpha\beta/(29\alpha\beta+30\alpha\beta)$	$(29\beta\beta R+29\beta\beta S)/(29\alpha\alpha S+29\beta\beta R+29\beta\beta S)$
Ratio 6	$30d/30\alpha\beta$	$21\alpha+22\alpha/(21\alpha+22\alpha+29\alpha\alpha S+29\beta\beta R+29\beta\beta S+29\alpha\alpha R)$
Ratio 7	$28\alpha\beta/30\alpha\beta$	$21\alpha+22\alpha/(21\alpha+22\alpha+28d\alpha S+28\alpha\alpha S+29d\alpha R+29\alpha\alpha S+29\beta\beta R+29\beta\beta S+29\alpha\alpha R)$
Ratio 8	$28\alpha\beta/29\alpha\beta$	$(29\beta\beta R+29\beta\beta S)/(29\alpha\alpha S+29\beta\beta R+29\beta\beta S+29\alpha\alpha R)$
Ratio 9	$28\alpha\beta/(28\alpha\beta+30\alpha\beta)$	$29\alpha\alpha S/29\alpha\alpha R$
Ratio 10	$24/3/30\alpha\beta$	$(29\beta\beta R+29\beta\beta S)/29\alpha\alpha R$
Ratio 11	$30\alpha\beta/(30\beta\alpha+30\alpha\beta)$	
Ratio 12	$(29\alpha\beta+29\beta\alpha)/(29\alpha\beta+29\beta\alpha+30\alpha\beta+30\beta\alpha)$	
Ratio 13	$(29\beta\alpha+30\beta\alpha)/(29\alpha\beta+30\alpha\beta)$	
Ratio 14	$32\alpha\beta S/(32\alpha\beta S+32\alpha\beta R) \%$	

Table 12a C1-C2 naphthalenes peak heights

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	2MN	1MN	2EN	1EN	2.6+ 2.7- DMN	1.3+ 1.7- DMN	1.6- DMN	2.3+ 1.4- DMN	1.5- DMN	1.2- DMN	Sample number
6608/11-4	1662.4	1662.45	ccp	sandstone/sand	100	2718	2718	1005	440	3579	4963	5813	4115	2895	5370	X88/0001-1
6608/11-4	1666.9	1667	ccp	sandstone/sand	100	81	121	94	52	239	406	420	370	308	501	X88/0003-1
6608/11-4	1679.1	1679.2	ccp	coal	100	1587	3009	1378	609	13832	13098	12469	13318	5359	5526	X88/0007-1
6608/11-4	1688	1688.05	ccp	sandstone/sand	100	186	149	23	17	77	130	102	55	33	36	X88/0009-1
6608/11-4	1709.9	1710	ccp	sandstone/sand	100	280	158	41	25	289	668	587	331	213	185	X88/0014-1
6608/11-4	1740	1740	cut	sandstone/sand	15	311	563	96	92	717	1780	1049	543	319	228	X88/0023-1
6608/11-4	1872	1872	com	bulk fraction		3905	4084	930	444	5832	10309	7528	3817	2030	2358	X88/0043-0
6608/11-4	2124	2124	cut	shale/claystone	10	3925	8308	2057	1595	7106	25730	16307	10897	9810	4734	X88/0032-2

Table 12b C3-naphthalenes peak heights

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	1.3.7- TMN	1.3.6- TMN	1.3.5+ 1.4.6 TMN	2.3.6- TMN	1.6.7+ 1.2.7 TMN	1.2.6- TMN	1.2.4- TMN	1.2.5- TMN	Sample number
6608/11-4	1662.4	1662.45	ccp	sandstone/sand	100	8340	3890	6818	9582	5760	5372	21995	15050	X88/0001-1
6608/11-4	1666.9	1667	ccp	sandstone/sand	100	791	596	496	1072	509	556	1114	688	X88/0003-1
6608/11-4	1679.1	1679.2	ccp	coal	100	17681	16691	29137	14004	14211	9002	14494	10966	X88/0007-1
6608/11-4	1688	1688.05	ccp	sandstone/sand	100	406	833	744	474	500	336	122	435	X88/0009-1
6608/11-4	1709.9	1710	ccp	sandstone/sand	100	1721	2363	2285	1604	1533	1033	316	1400	X88/0014-1
6608/11-4	1740	1740	cut	sandstone/sand	15	849	1335	1330	645	732	430	151	423	X88/0023-1
6608/11-4	1872	1872	com	bulk fraction		5375	7494	6186	4267	3889	2444	820	2363	X88/0043-0
6608/11-4	2124	2124	cut	shale/claystone	10	10725	16210	28977	7345	18718	5333	3710	26048	X88/0032-2

Table 12c Phenanthrene and C1-Phenanthrenes peak heights

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	P	3MP	2MP	9MP	1MP	Sample number
6608/11-4	1662.4	1662.45	ccp	sandstone/sand	100	37352	15252	22234	119081	20362	X88/0001-1
6608/11-4	1666.9	1667	ccp	sandstone/sand	100	4104	1027	1508	9398	1737	X88/0003-1
6608/11-4	1679.1	1679.2	ccp	coal	100	132412	25714	35900	264155	32612	X88/0007-1
6608/11-4	1688	1688.05	ccp	sandstone/sand	100	25546	3566	4833	9073	3676	X88/0009-1
6608/11-4	1709.9	1710	ccp	sandstone/sand	100	33711	9429	11935	15354	10884	X88/0014-1
6608/11-4	1740	1740	cut	sandstone/sand	15	2799	687	771	1955	719	X88/0023-1
6608/11-4	1872	1872	com	bulk fraction		18172	6054	7546	18389	5159	X88/0043-0
6608/11-4	2124	2124	cut	shale/claystone	10	130724	33217	46579	147365	67646	X88/0032-2

Table 12d Dibenzothiophene and C1-dibenzothiophenes peak heights

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	DBT	4 MDBT	2+3 MDBT	1 MDBT	Sample number
6608/11-4	1662.4	1662.45	ccp	sandstone/sand	100	1486	56099	4640	75738	X88/0001-1
6608/11-4	1666.9	1667	ccp	sandstone/sand	100	129	2470	208	4383	X88/0003-1
6608/11-4	1679.1	1679.2	ccp	coal	100	2487	8428	6136	10363	X88/0007-1
6608/11-4	1688	1688.05	ccp	sandstone/sand	100	839	1331	362	834	X88/0009-1
6608/11-4	1709.9	1710	ccp	sandstone/sand	100	1969	3662	910	1110	X88/0014-1
6608/11-4	1740	1740	cut	sandstone/sand	15	164	466	74	444	X88/0023-1
6608/11-4	1872	1872	com	bulk fraction		1521	2866	686	1572	X88/0043-0
6608/11-4	2124	2124	cut	shale/claystone	10	3225	6027	1194	5072	X88/0032-2



Table 12e Triaromatic steranes peak heights: TASTPH

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	a1	b1	c1	d1	e1	f1	g1	Sample number
6608/11-4	1662.4	1662.45	ccp	sandstone/sand	100	561930	607485	501536	1389983	680179	667098	596346	X88/0001-1
6608/11-4	1666.9	1667	ccp	sandstone/sand	100	55875	64403	70441	186653	97352	94190	88742	X88/0003-1
6608/11-4	1679.1	1679.2	ccp	coal	100	526537	433406	37655	94729	30543	40493	30943	X88/0007-1
6608/11-4	1688	1688.05	ccp	sandstone/sand	100	2023	2633	659	2277	960	846	1736	X88/0009-1
6608/11-4	1709.9	1710	ccp	sandstone/sand	100	5056	5166	4524	12930	5814	5094	5807	X88/0014-1
6608/11-4	1740	1740	cut	sandstone/sand	15	6009	6248	4541	11212	6917	6670	6242	X88/0023-1
6608/11-4	1872	1872	com	bulk fraction		6711	7474	3360	11400	6574	5822	5993	X88/0043-0
6608/11-4	2124	2124	cut	shale/claystone	10	19927	14907	11354	37600	22514	16150	21832	X88/0032-2

Table 12f Monoaromatic steranes peak heights: MASTPH

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	A1	B1	C1	D1	E1	F1	G1	H1	I1	Sample number
6608/11-4	1662.4	1662.45	ccp	sandstone/sand	100	269377	168279	424626	371476	710168	180838	532186	298673	82810	X88/0001-1
6608/11-4	1666.9	1667	ccp	sandstone/sand	100	37539	23106	60107	46379	86194	21711	71699	48821	11717	X88/0003-1
6608/11-4	1679.1	1679.2	ccp	coal	100	83535	35391	10529	9099	28002	5682	89706	66745	26942	X88/0007-1
6608/11-4	1688	1688.05	ccp	sandstone/sand	100	1225	1498	712	772	2279	742	1551	2040	577	X88/0009-1
6608/11-4	1709.9	1710	ccp	sandstone/sand	100	2859	1869	4525	4315	14503	2928	7629	7960	1664	X88/0014-1
6608/11-4	1740	1740	cut	sandstone/sand	15	3005	2809	3271	2738	5477	1374	6281	4515	1516	X88/0023-1
6608/11-4	1872	1872	com	bulk fraction		4525	3284	4375	3365	7702	1971	14769	11761	5246	X88/0043-0
6608/11-4	2124	2124	cut	shale/claystone	10	13907	9654	19824	17642	58316	10911	83375	109191	103038	X88/0032-2

Table 12g Triaromatic steranes m/z 231 peak height ratios: TASTRAT

Well name	Upper depth (m)	Lower depth	Sample type	Description	% Lith.	a1/ (a1+g1)	b1/ (b1+g1)	(a1+b1)/ (a1+b1+c1+d1+ e1+f1+g1)	a1/ (a1+e1+f1+g1)	a1/ (a1+d1)	Sample number
6608/11-4	1662.4	1662.45	ccp	sandstone/sand	100	0.49	0.5	0.23	0.22	0.29	X88/0001-1
6608/11-4	1666.9	1667	ccp	sandstone/sand	100	0.39	0.42	0.18	0.17	0.23	X88/0003-1
6608/11-4	1679.1	1679.2	ccp	coal	100	0.94	0.93	0.8	0.84	0.85	X88/0007-1
6608/11-4	1688	1688.05	ccp	sandstone/sand	100	0.54	0.6	0.42	0.36	0.47	X88/0009-1
6608/11-4	1709.9	1710	ccp	sandstone/sand	100	0.47	0.47	0.23	0.23	0.28	X88/0014-1
6608/11-4	1740	1740	cut	sandstone/sand	15	0.49	0.5	0.26	0.23	0.35	X88/0023-1
6608/11-4	1872	1872	com	bulk fraction		0.53	0.55	0.3	0.27	0.37	X88/0043-0
6608/11-4	2124	2124	cut	shale/claystone	10	0.48	0.41	0.24	0.25	0.35	X88/0032-2

Table 12h Monoaromatic steranes m/z 253 peak height ratios: MASTRAT

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	A1/ (A1+E1)	B1/ (B1+E1)	A1/ (A1+E1+G1)	(A1+B1)/ (A1+B1+C1+D1+E1+F1+G1+H1+I1)	Sample number
6608/11-4	1662.4	1662.45	ccp	sandstone/sand	100	0.28	0.19	0.18	0.14	X88/0001-1
6608/11-4	1666.9	1667	ccp	sandstone/sand	100	0.3	0.21	0.19	0.15	X88/0003-1
6608/11-4	1679.1	1679.2	ccp	coal	100	0.75	0.56	0.42	0.33	X88/0007-1
6608/11-4	1688	1688.05	ccp	sandstone/sand	100	0.35	0.4	0.24	0.24	X88/0009-1
6608/11-4	1709.9	1710	ccp	sandstone/sand	100	0.16	0.11	0.11	0.1	X88/0014-1
6608/11-4	1740	1740	cut	sandstone/sand	15	0.35	0.34	0.2	0.19	X88/0023-1
6608/11-4	1872	1872	com	bulk fraction		0.37	0.3	0.17	0.14	X88/0043-0
6608/11-4	2124	2124	cut	shale/claystone	10	0.19	0.14	0.09	0.06	X88/0032-2

# OILS

Table 1 Analytical Program														
Well	Sample Depth (m)	Sample Type	Sample Code	Iatroscan	Topping	MPLC & Deasphaltene	Whole Oil GC	Sat GC (Quantitative)	Aro GC	Sat GCMS (Quantitative)	Aro GCMS	Carbon isotope of topped oil, or EOM and fractions	Gas composition and isotope composition	
	Table nos.:			8		8	13	9	9	11	12	10		14
6608/11-4	1657.60	oil	X88/0044-0	x	x	x	x	x	x	x	x	x		
6608/11-4	1663.00	oil	X88/0045-0	x	x	x	x	x	x	x	x	x		
6608/11-4	1672.60	oil	X88/0046-0	x	x	x	x	x	x	x	x	x		
6608/11-4	1657.60	oil	-										x	
6608/11-4	1663.00	oil	-										x	
6608/11-4	1672.60	oil	-										x	
6608/11-4	TOTAL			3	3	3	3	3	3	3	3	3	3	3

Table 8a Extraction data: EXTRACT WEIGHTS

Well name	Upper depth (m)	Lower depth (m)	Sample type	Sample Description	%Lith.	Wt. rock extracted	EOM (mg) of mud					%TOC	HC	Non-HC	Sample number
						(g) whole oil (mg) for topping	Topped Oil (mg)	Sat (mg)	Aro (mg)	NSO (mg)	Asph (mg)				
6608/11-4	1657	1657.6	oil	1657.6m	-	44.53	44.5	18.75	18.44	6.2	1.1	0	37.2	7.3	X88/0044-0
6608/11-4	1662.9	1663	oil	1663.0m	-	47.73	47.6	21.25	18.48	6.47	1.4	0	39.73	7.87	X88/0045-0
6608/11-4	1672	1672.6	oil	1672.6m	-	48.2	48.1	21.83	18.46	6.42	1.4	0	40.28	7.82	X88/0046-0

Table 8d-e Extraction ratios: EXTRRAT

Well name	Upper depth (m)	Lower depth (m)	Sample type	Sample Description	%Lith.	Table 8d					Table 8e		Sample number	
						Sat/ EOM	Aro/ EOM	Asph/ EOM	NSO/ EOM	HC/ EOM	Non-HC/ EOM	Sat/ Aro		HC/ Non-HC
6608/11-4	1657	1657.6	oil	1657.6m		42.15	41.45	2.47	13.93	83.6	16.4	1.02	5.1	X88/0044-0
6608/11-4	1662.9	1663	oil	1663.0m		44.65	38.82	2.94	13.59	83.47	16.53	1.15	5.05	X88/0045-0
6608/11-4	1672	1672.6	oil	1672.6m		45.38	38.37	2.91	13.35	83.74	16.26	1.18	5.15	X88/0046-0

Table 8g. Iatroscan data, relative percentages: IATRREL

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	%Lith.	%Sat.	%Aro.	%Resins	%Asph.	%Tot. HC	%Tot. pol.	Sample number
6608/11-4	1657	1657.6	oil	1657.6m		47.06	46.8	3.67	2.47	93.86	6.14	X88/0044-0
6608/11-4	1662.9	1663	oil	1663.0m		48.46	44.36	4.24	2.94	92.82	7.18	X88/0045-0
6608/11-4	1672	1672.6	oil	1672.6m		46.49	46.32	4.27	2.91	92.82	7.18	X88/0046-0

Table 9Aa Saturated GC peak areas: SATGCPA

Well name	Upper depth (m)	Lower depth (m)	Sample type	Sample Desc	Norpri			Prist		Phyt				Sample number			
					nC15	nC16	stane	nC17	ane	nC18	ane	nC19	nC20		nC21	nC22	
6608/11-4	1657	1657.6	oil	1657.6m	0	0	0	0	0	0	0	0	0	0	0	0	
6608/11-4	1662.9	1663	oil	1663.0m	0	0	0	0	0	0	0	0	0	0	0	0	
6608/11-4	1672	1672.6	oil	1672.6m	0	0	0	0	0	0	0	0	0	0	0	0	

  

Well name	Upper depth (m)	Lower depth (m)	Sample type	Sample Desc	Norpris			Prist		Phyt				Sample number			
					nC23	nC24	nC25	nC26	nC27	nC28	nC29	nC30	nC31		nC32	nC33	nC34
6608/11-4	1657	1657.6	oil	1657.6m	0	0	0	0	0	0	0	0	0	0	0	0	X88/0044-0
6608/11-4	1662.9	1663	oil	1663.0m	0	0	0	0	0	0	0	0	0	0	0	0	X88/0045-0
6608/11-4	1672	1672.6	oil	1672.6m	0	0	0	0	0	0	0	0	0	0	0	0	X88/0046-0

Table 9Ab Saturated GC peak heights: SATGCPH

Well name	Upper depth (m)	Lower depth (m)	Sample type	Sample Desc	Norpris			Prist		Phyt				Sample number			
					nC15	nC16	tane	nC17	ane	nC18	ane	nC19	nC20		nC21	nC22	
6608/11-4	1657	1657.6	oil	1657.6m	0	0	0	0	0	0	0	0	0	0	0	0	
6608/11-4	1662.9	1663	oil	1663.0m	0	0	0	0	0	0	0	0	0	0	0	0	
6608/11-4	1672	1672.6	oil	1672.6m	0	0	0	0	0	0	0	0	0	0	0	0	

  

Well name	Upper depth (m)	Lower depth (m)	Sample type	Sample Desc	Norpris			Prist		Phyt				Sample number			
					nC23	nC24	nC25	nC26	nC27	nC28	nC29	nC30	nC31		nC32	nC33	nC34
6608/11-4	1657	1657.6	oil	1657.6m	0	0	0	0	0	0	0	0	0	0	0	0	X88/0044-0
6608/11-4	1662.9	1663	oil	1663.0m	0	0	0	0	0	0	0	0	0	0	0	0	X88/0045-0
6608/11-4	1672	1672.6	oil	1672.6m	0	0	0	0	0	0	0	0	0	0	0	0	X88/0046-0

Table 9Ac SATGC Quant. mg/g sat (peak area)

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	nC15	nC16	iC18	nC17	Pr	nC18	Ph	nC19	nC20	nC21	nC22
6608/11-4	1657	1657.6	oil	1657.6m	0	0	0	0	0	0	0	0	0	0	0
6608/11-4	1662.9	1663	oil	1663.0m	0	0	0	0	0	0	0	0	0	0	0
6608/11-4	1672	1672.6	oil	1672.6m	0	0	0	0	0	0	0	0	0	0	0

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	nC23	nC24	nC25	nC26	nC27	nC28	nC29	nC30	nC31	nC32	nC33	nC34	Sample number
6608/11-4	1657	1657.6	oil	1657.6m	0	0	0	0	0	0	0	0	0	0	0	0	X88/0044-0
6608/11-4	1662.9	1663	oil	1663.0m	0	0	0	0	0	0	0	0	0	0	0	0	X88/0045-0
6608/11-4	1672	1672.6	oil	1672.6m	0	0	0	0	0	0	0	0	0	0	0	0	X88/0046-0

Table 9Ba Saturated GC ratios, peak area: SATGCRPA

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	%Lith.	Prist./nC17	Prist./Phyt.	(Prist./nC17)/(Phyt./nC18)	CPI 1	Phytane/nC18	nC17/(nC17+nC27)	(Pristane+Phytane)/(nC17+nC18)	Sample number
6608/11-4	1657	1657.6	oil	1657.6m		0	0	0	0	0	0	0	X88/0044-0
6608/11-4	1662.9	1663	oil	1663.0m		0	0	0	0	0	0	0	X88/0045-0
6608/11-4	1672	1672.6	oil	1672.6m		0	0	0	0	0	0	0	X88/0046-0

Table 9Bb Saturated GC ratios, peak heights: SATGCRPH

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	%Lith.	Prist./nC17	Prist./Phyt.	(Prist./nC17)/(Phyt./nC18)	CPI 1	Phytane/nC18	nC17/(nC17+nC27)	(Pristane+Phytane)/(nC17+nC18)	Sample number
6608/11-4	1657	1657.6	oil	1657.6m		0	0	0	0	0	0	0	X88/0044-0
6608/11-4	1662.9	1663	oil	1663.0m		0	0	0	0	0	0	0	X88/0045-0
6608/11-4	1672	1672.6	oil	1672.6m		0	0	0	0	0	0	0	X88/0046-0

Table 9Ca Aromatic GC peak areas: AROGCPA

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	2MN	1MN	BPh	2EN	1EN	2.6+2.7			1.3.7	1.3.6	1.3.5	1.4.6+
										DMN	1.6DMN	1.5DMN	TMN	TMN	TMN	2.3.6 TMN
6608/11-4	1657	1657.6	oil	1657.6m	0	0	0	0	0	0	0	0	0	0	0	0
6608/11-4	1662.9	1663	oil	1663.0m	0	0	0	0	0	0	0	0	0	0	0	0
6608/11-4	1672	1672.6	oil	1672.6m	0	0	0	0	0	0	0	0	0	0	0	0

  

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	P	3MP	2MP	9MP	1MP	DBT	4 MDBT	2+3 MDBT	1 MDBT	Sample number
6608/11-4	1657	1657.6	oil	1657.6m	0	0	0	0	0	0	0	0	0	X88/0044-0
6608/11-4	1662.9	1663	oil	1663.0m	0	0	0	0	0	0	0	0	0	X88/0045-0
6608/11-4	1672	1672.6	oil	1672.6m	0	0	0	0	0	0	0	0	0	X88/0046-0

Table 9Cb Aromatic GC peak heights: AROGCPH

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	2MN	1MN	BPh	2EN	1EN	2.6+			1.3.7	1.3.6	1.3.5	1.4.6+
										2.7DMN	1.6DMN	1.5DMN	TMN	TMN	TMN	2.3.6TMN
6608/11-4	1657	1657.6	oil	1657.6m	0	0	0	0	0	0	0	0	0	0	0	0
6608/11-4	1662.9	1663	oil	1663.0m	0	0	0	0	0	0	0	0	0	0	0	0
6608/11-4	1672	1672.6	oil	1672.6m	0	0	0	0	0	0	0	0	0	0	0	0

  

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	P	3MP	2MP	9MP	1MP	DBT	4 MDBT	2+3 MDBT	1 MDBT	Sample number
6608/11-4	1657	1657.6	oil	1657.6m	0	0	0	0	0	0	0	0	0	X88/0044-0
6608/11-4	1662.9	1663	oil	1663.0m	0	0	0	0	0	0	0	0	0	X88/0045-0
6608/11-4	1672	1672.6	oil	1672.6m	0	0	0	0	0	0	0	0	0	X88/0046-0



Table 9Da Aromatic GC ratios, peak area: AROGCRPA

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	%Lith.	MNR	DMNR	BPhR	2/1MP	MPI 1	MPI 2	Rc	DBT/ Ph	4/1 MDBT	(3+2)/ 1MDBT	F1	F2	Sample number	
6608/11-4	1657	1657.6	oil	1657.6m	0	0	0	0	0	0	0	0	0	0	0	0	0	0	X88/0044-0
6608/11-4	1662.9	1663	oil	1663.0m	0	0	0	0	0	0	0	0	0	0	0	0	0	0	X88/0045-0
6608/11-4	1672	1672.6	oil	1672.6m	0	0	0	0	0	0	0	0	0	0	0	0	0	0	X88/0046-0

Table 9Db Aromatic GC ratios, peak heights: AROGCRPH

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	%Lith.	MNR	DMNR	BPhR	2/1MP	MPI 1	MPI 2	Rc	DBT/ Ph	4/1 MDBT	(3+2)/ 1MDBT	F1	F2	Sample number	
6608/11-4	1657	1657.6	oil	1657.6m	0	0	0	0	0	0	0	0	0	0	0	0	0	0	X88/0044-0
6608/11-4	1662.9	1663	oil	1663.0m	0	0	0	0	0	0	0	0	0	0	0	0	0	0	X88/0045-0
6608/11-4	1672	1672.6	oil	1672.6m	0	0	0	0	0	0	0	0	0	0	0	0	0	0	X88/0046-0

Table 10 Carbon isotope data: CARBISOT

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	Whole oil	Topped oil/EOM	Sat	Aro	NSO	Asph	Kerogen	Canonical Variable	Sample number
6608/11-4	1657	1657.6	oil	1657.6m	-	-28.67	-28.12	-26.91	-28.15	-29.86	-	-0.25	X88/0044-0
6608/11-4	1662.9	1663	oil	1663.0m	-	-28.98	-27.99	-26.70	-28.68	-29.83	-	-0.11	X88/0045-0
6608/11-4	1672	1672.6	oil	1672.6m	-	-28.89	-28.06	-26.56	-27.52	-29.09	-	0.38	X88/0046-0

Table 11a Triterpanes peak heights, SIR: TRITPHS

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	23/3 (P)	24/3 (Q)	25/3 (R)	24/4 (S)	26/3 (T)	27Ts (A)	27Tm (B)	28ab (Z)	25nor30a b (Z1)
6608/11-4	1657	1657.6	oil	1657.6m		418143	358698	148234	290288	108624	482739	445614	301418	1008419
6608/11-4	1662.9	1663	oil	1663.0m		482680	390231	175916	373133	139764	696884	660301	409637	1390914
6608/11-4	1672	1672.6	oil	1672.6m		543015	454635	195345	416764	148091	772747	729707	445387	1491661

  

Well name	Upper depth (m)	Lower depth (m)	Sample type	Descript ion	29ab (C)	29Ts (C1)	30d (X)	29ba (D)	30O	30ab (E)	30ba (F)	30G	31abS (G)	31abR (H)	31ba (I)
6608/11-4	1657	1657.6	oil	1657.6m	1167666	403918	299142	183861	0	2248969	229497	87531	604275	411940	81081
6608/11-4	1662.9	1663	oil	1663.0m	1647681	562752	406079	258422	0	3089134	335191	131088	907054	602590	120932
6608/11-4	1672	1672.6	oil	1672.6m	1727009	612155	456069	281801	0	3442963	366707	144319	950861	647400	127129

  

Well name	Upper depth (m)	Lower depth (m)	Sample type	Descript ion	32abS (J1)	32abR (J2)	33abS (K1)	33abR (K2)	34abS (L1)	34abR (L2)	35abS (M1)	35abR (M2)	Sample number
6608/11-4	1657	1657.6	oil	1657.6m	367786	252314	269604	176128	164435	99182	124971	78590	X88/0044-0
6608/11-4	1662.9	1663	oil	1663.0m	530198	375999	409616	260779	254853	160157	201466	119397	X88/0045-0
6608/11-4	1672	1672.6	oil	1672.6m	607560	402982	471219	295076	286607	177907	220504	138172	X88/0046-0

Table 11b Triterpanes m/z 177 peak heights, SIR: TR177PHS

<b>Well name</b>	<b>Upper depth (m)</b>	<b>Lower depth (m)</b>	<b>Sample type</b>	<b>Description</b>	<b>% Lith.</b>	<b>25nor28ab</b>	<b>25nor30ab</b>	<b>Sample number</b>
6608/11-4	1657	1657.6	oil	1657.6m		814599	762647	X88/0044-0
6608/11-4	1662.9	1663	oil	1663.0m		1111021	1097223	X88/0045-0
6608/11-4	1672	1672.6	oil	1672.6m		1221919	1179050	X88/0046-0

Table 11c Steranes peak heights, SIR: STERPHS

Well name	Upper depth (m)	Lower depth (m)	Sample type	Descript ion	% Lith.	21a (u)	22a (v)	27dbS (a)	27dbR (b)	27daR (c)	27daS (d)	28dbS (e)
6608/11-4	1657	1657.6	oil	1657.6m		507009	261097	708395	428070	180656	185116	368849
6608/11-4	1662.9	1663	oil	1663.0m		558130	300931	837453	537170	229922	215251	447554
6608/11-4	1672	1672.6	oil	1672.6m		593464	334828	966031	598907	260956	243730	502988

Well name	Upper depth (m)	Lower depth (m)	Sample type	Descript ion	28dbR (f)	28daR +27aaS (g)	29dbS +27bbR (h)	28daS +27bbS (i)	29dbR 27aaR (j) (k)	29daR (l)	28aaS (m)	29daS +28bbR (n)	
6608/11-4	1657	1657.6	oil	1657.6m	209456	213022	593288	336802	229230	428738	144243	135435	257616
6608/11-4	1662.9	1663	oil	1663.0m	268109	302860	794543	446621	315784	556278	189803	162645	309685
6608/11-4	1672	1672.6	oil	1672.6m	297347	340533	894572	508871	371365	638637	231146	210294	379988

Well name	Upper depth (m)	Lower depth (m)	Sample type	Descript ion	28bbS (o)	28aaR (p)	29aaS (q)	29bbR (r)	29bbS (s)	29aaR (t)	Sample number
6608/11-4	1657	1657.6	oil	1657.6m	391569	116167	253210	405810	330406	253179	X88/0044-0
6608/11-4	1662.9	1663	oil	1663.0m	478491	140022	318328	541741	417137	340890	X88/0045-0
6608/11-4	1672	1672.6	oil	1672.6m	541605	155528	361202	596054	462947	375101	X88/0046-0

Table 11d Steranes m/z 218 peak heights, SIR: ST218PHS

<b>Well name</b>	<b>Upper depth (m)</b>	<b>Lower depth (m)</b>	<b>Sample type</b>	<b>Description</b>	<b>% Lith.</b>	<b>27bbR (h)</b>	<b>27bbS (i)</b>	<b>28bbR (n)</b>	<b>28bbS (o)</b>	<b>29bbR (r)</b>	<b>29bbS (s)</b>	<b>30bbR (x)</b>	<b>30bbS (y)</b>	<b>Sample number</b>
6608/11-4	1657	1657.6	oil	1657.6m		540364	420207	358621	459317	530515	498365	157128	155351	X88/0044-0
6608/11-4	1662.9	1663	oil	1663.0m		678755	505680	468572	579667	686242	644372	216923	208824	X88/0045-0
6608/11-4	1672	1672.6	oil	1672.6m		768126	586542	530333	647461	753330	712159	241861	231865	X88/0046-0

Table 11e Triterpanes m/z 191 SIR, quantified in ng compound/g oil (ppb) (peak heights): TRITPHSQ

Well name	Upper depth (m)	Lower depth (m)	Sample type	Sample Description	Descripti %										25nor30ab	
					Lith.	23/3 (P)	24/3 (Q)	25/3 (R)	24/4 (S)	26/3 (T)	27Ts (A)	27Tm (B)	28ab (Z)	(Z1)		
6608/11-4	1657	1657.6	oil	1657.6m		144015	123541	51054	99980	37412	166263	153476	103813	347315		
6608/11-4	1662.9	1663	oil	1663.0m		128285	103714	46754	99170	37146	185215	175492	108872	369672		
6608/11-4	1672	1672.6	oil	1672.6m		123897	103732	44571	95091	33789	176315	166494	101622	340346		

  

Well name	Upper depth (m)	Lower depth (m)	Sample type	Sample Description	29Ts							31abS			31abR
					29ab (C)	(C1)	30d (X)	29ba (D)	30O	30ab (E)	30ba (F)	30G	(G)	(H)	31ba (I)
6608/11-4	1657	1657.6	oil	1657.6m	402162	139116	103029	63325	0	774579	79042	30147	208122	141879	27926
6608/11-4	1662.9	1663	oil	1663.0m	437914	149566	107926	68682	0	821018	89086	34840	241073	160154	32141
6608/11-4	1672	1672.6	oil	1672.6m	394045	139673	104059	64297	0	785567	83670	32929	216954	147715	29006

  

Well name	Upper depth (m)	Lower depth (m)	Sample type	Sample Description	32abS		32abR		33abS		33abR		34abS		34abR		35abS		35abR		Sample number
					(J1)	(J2)	(K1)	(K2)	(L1)	(L2)	(M1)	(M2)									
6608/11-4	1657	1657.6	oil	1657.6m	126671	86901	92856	60661	56634	34160	43042	27068	X88/0044-0								
6608/11-4	1662.9	1663	oil	1663.0m	140914	99932	108866	69309	67734	42566	53545	31733	X88/0045-0								
6608/11-4	1672	1672.6	oil	1672.6m	138624	91947	107516	67326	65394	40592	50311	31526	X88/0046-0								

Table 11f Triterpanes m/z 177 SIR, quantified in ng compound/g oil (ppb) (peak heights): TRIT177PHSQ

<b>Well name</b>	<b>Upper depth (m)</b>	<b>Lower depth (m)</b>	<b>Sample type</b>	<b>Description</b>	<b>% Lith.</b>	<b>25nor28ab</b>	<b>25nor30ab</b>	<b>Sample number</b>
6608/11-4	1657	1657.6	oil	1657.6m		280560	262667	X88/0044-0
6608/11-4	1662.9	1663	oil	1663.0m		295283	291616	X88/0045-0
6608/11-4	1672	1672.6	oil	1672.6m		278800	269019	X88/0046-0



Table 11g Steranes m/z 217 SIR, quantified in ng compound/g oil (ppb) (peak heights): STERPHSQ

Well name	Upper depth (m)	Lower depth (m)	Sample type	Descript ion	% Lith.	21a (u)	22a (v)	27dbS (a)	27dbR (b)	27daR (c)	27daS (d)	28dbS (e)	28dbR (f)	28daR +27aaS (g)
6608/11-4	1657	1657.6	oil	1657.6m		174622	89926	243982	147434	62221	63757	127037	72140	73368
6608/11-4	1662.9	1663	oil	1663.0m		148338	79980	222575	142767	61108	57209	118949	71257	80493
6608/11-4	1672	1672.6	oil	1672.6m		135408	76396	220415	136650	59541	55611	114765	67844	77698

Well name	Upper depth (m)	Lower depth (m)	Sample type	Descript ion	29dbS +27bbR (h)	28daS +27bbS (i)	27aaR (j)	29dbR (k)	29daR (l)	28aaS (m)	29daS +28bbR (n)
6608/11-4	1657	1657.6	oil	1657.6m	204337	116000	78950	147664	49679	46646	88727
6608/11-4	1662.9	1663	oil	1663.0m	211171	118701	83928	147845	50445	43227	82307
6608/11-4	1672	1672.6	oil	1672.6m	204111	116107	84733	145715	52740	47982	86700

Well name	Upper depth (m)	Lower depth (m)	Sample type	Descript ion	28bbS (o)	28aaR (p)	29aaS (q)	29bbR (r)	29bbS (s)	29aaR (t)	Sample number
6608/11-4	1657	1657.6	oil	1657.6m	134863	40010	87209	139767	113797	87199	X88/0044-0
6608/11-4	1662.9	1663	oil	1663.0m	127172	37214	84604	143982	110865	90601	X88/0045-0
6608/11-4	1672	1672.6	oil	1672.6m	123576	35486	82414	135999	105629	85585	X88/0046-0

Table 11h Steranes m/z 218 SIR, quantified in ng compound/g oil (ppb) (peak heights): STERPHSQ

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	27bbR (h)	27bbS (i)	28bbR (n)	28bbS (o)	29bbR (r)	29bbS (s)	30bbR (x)	30bbS (y)	Sample number
6608/11-4	1657	1657.6	oil	1657.6m		186110	144726	123515	158196	182717	171645	54117	53505	X88/0044-0
6608/11-4	1662.9	1663	oil	1663.0m		180397	134398	124535	154062	182387	171259	57653	55500	X88/0045-0
6608/11-4	1672	1672.6	oil	1672.6m		175260	133829	121004	147729	171884	162490	55184	52904	X88/0046-0

Table 11i Amount of saturated hydrocarbon standard (d4 cholestane) and weight of sample

<b>Well name</b>	<b>Upper depth (m)</b>	<b>Lower depth (m)</b>	<b>Sample type</b>	<b>Description</b>	<b>% Lith.</b>	<b>Standard</b>	<b>Amount</b>	<b>Weight</b>	<b>Sample number</b>
6608/11-4	1657	1657.6	oil	1657.6m		130493	2.000	44.5	X88/0044-0
6608/11-4	1662.9	1663	oil	1663.0m		158091	2.000	47.6	X88/0045-0
6608/11-4	1672	1672.6	oil	1672.6m		182236	2.000	48.1	X88/0046-0

Table 11j Triterpanes m/z 191 peak height ratios, SIR: TRITRATS

<b>Well name</b>	<b>Upper depth (m)</b>	<b>Lower depth (m)</b>	<b>Sample type</b>	<b>Description</b>	<b>% Lith.</b>	<b>Ratio 1</b>	<b>Ratio 2</b>	<b>Ratio 3</b>	<b>Ratio 4</b>	<b>Ratio 5</b>	<b>Ratio 6</b>	<b>Ratio 7</b>	<b>Ratio 8</b>	<b>Ratio 9</b>	<b>Ratio 10</b>
6608/11-4	1657	1657.6	oil	1657.6m		0.92	0.48	0.15	0.52	0.34	0.13	0.13	0.26	0.12	0.16
6608/11-4	1662.9	1663	oil	1663.0m		0.95	0.49	0.16	0.53	0.35	0.13	0.13	0.25	0.12	0.13
6608/11-4	1672	1672.6	oil	1672.6m		0.94	0.49	0.16	0.50	0.33	0.13	0.13	0.26	0.11	0.13

  

<b>Well name</b>	<b>Upper depth (m)</b>	<b>Lower depth (m)</b>	<b>Sample type</b>	<b>Description</b>	<b>% Lith.</b>	<b>Ratio 11</b>	<b>Ratio 12</b>	<b>Ratio 13</b>	<b>Ratio 14</b>	<b>Sample number</b>
6608/11-4	1657	1657.6	oil	1657.6m		0.91	0.35	0.12	59.31	X88/0044-0
6608/11-4	1662.9	1663	oil	1663.0m		0.90	0.36	0.13	58.51	X88/0045-0
6608/11-4	1672	1672.6	oil	1672.6m		0.90	0.35	0.13	60.12	X88/0046-0

Table 11k Steranes m/z 217 peak height ratios, SIR: STERRATS

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	Ratio 1	Ratio 2	Ratio 3	Ratio 4	Ratio 5	Ratio 6	Ratio 7	Ratio 8	Ratio 9	Ratio 10	Sample number
6608/11-4	1657	1657.6	oil	1657.6m		0.76	50	74.41	1.06	0.74	0.38	0.28	0.59	1	2.91	X88/0044-0
6608/11-4	1662.9	1663	oil	1663.0m		0.73	48.29	74.42	0.98	0.75	0.35	0.25	0.59	0.93	2.81	X88/0045-0
6608/11-4	1672	1672.6	oil	1672.6m		0.72	49.06	74.2	0.97	0.75	0.34	0.24	0.59	0.96	2.82	X88/0046-0

Saturated Fraction GCMS Ratio definitions

<b>in Tables</b>	<b>Triterpanes</b>	<b>Steranes</b>
Ratio 1	$27Tm/27Ts$	$27d\beta S/(27d\beta S+27\alpha\alpha R)$
Ratio 2	$27Tm/(27Tm+27Ts)$	$29\alpha\alpha S/(29\alpha\alpha S+29\alpha\alpha R)\%$
Ratio 3	$27Tm/(27Tm+30\alpha\beta+30\beta\alpha)$	$2*(29\beta\beta R+29\beta\beta S)/(29\alpha\alpha S+29\alpha\alpha R+2*[29\beta\beta R+29\beta\beta S])\%$
Ratio 4	$29\alpha\beta/30\alpha\beta$	$(27d\beta S+27d\beta R+27d\alpha R+27d\alpha S)/(29d\beta S+29d\beta R+29d\alpha R+29d\alpha S)$
Ratio 5	$29\alpha\beta/(29\alpha\beta+30\alpha\beta)$	$(29\beta\beta R+29\beta\beta S)/(29\alpha\alpha S+29\beta\beta R+29\beta\beta S)$
Ratio 6	$30d/30\alpha\beta$	$21\alpha+22\alpha/(21\alpha+22\alpha+29\alpha\alpha S+29\beta\beta R+29\beta\beta S+29\alpha\alpha R)$
Ratio 7	$28\alpha\beta/30\alpha\beta$	$21\alpha+22\alpha/(21\alpha+22\alpha+28d\alpha S+28\alpha\alpha S+29d\alpha R+29\alpha\alpha S+29\beta\beta R+29\beta\beta S+29\alpha\alpha R)$
Ratio 8	$28\alpha\beta/29\alpha\beta$	$(29\beta\beta R+29\beta\beta S)/(29\alpha\alpha S+29\beta\beta R+29\beta\beta S+29\alpha\alpha R)$
Ratio 9	$28\alpha\beta/(28\alpha\beta+30\alpha\beta)$	$29\alpha\alpha S/29\alpha\alpha R$
Ratio 10	$24/3/30\alpha\beta$	$(29\beta\beta R+29\beta\beta S)/29\alpha\alpha R$
Ratio 11	$30\alpha\beta/(30\beta\alpha+30\alpha\beta)$	
Ratio 12	$(29\alpha\beta+29\beta\alpha)/(29\alpha\beta+29\beta\alpha+30\alpha\beta+30\beta\alpha)$	
Ratio 13	$(29\beta\alpha+30\beta\alpha)/(29\alpha\beta+30\alpha\beta)$	
Ratio 14	$32\alpha\beta S/(32\alpha\beta S+32\alpha\beta R)\%$	

Table 12a C1-C2 naphthalenes peak heights

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	2MN	1MN	2EN	1EN	2.6+ DMN	2.7- DMN	1.3+ DMN	1.7- DMN	1.6- DMN	2.3+ DMN	1.4- DMN	1.5- DMN	1.2- DMN	Sample number
6608/11-4	1657	1657.6	oil	1657.6m	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X88/0044-0
6608/11-4	1662.9	1663	oil	1663.0m	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X88/0045-0
6608/11-4	1672	1672.6	oil	1672.6m	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X88/0046-0

Table 12b C3-naphthalenes peak heights

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	1.3.7- TMN	1.3.6-TMN	1.3.5+ TMN	2.3.6-TMN	1.6.7+ TMN	1.2.7 TMN	1.2.6-TMN	1.2.4-TMN	1.2.5-TMN	Sample number
6608/11-4	1657	1657.6	oil	1657.6m	-	-	-	-	-	-	-	-	-	-	X88/0044-0
6608/11-4	1662.9	1663	oil	1663.0m	-	-	-	-	-	-	-	-	-	-	X88/0045-0
6608/11-4	1672	1672.6	oil	1672.6m	-	-	-	-	-	-	-	-	-	-	X88/0046-0

Table 12c Phenanthrene and C1-Phenanthrenes peak heights

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	P	3MP	2MP	9MP	1MP	Sample number
6608/11-4	1657	1657.6	oil	1657.6m	-	-	-	-	-	-	X88/0044-0
6608/11-4	1662.9	1663	oil	1663.0m	-	-	-	-	-	-	X88/0045-0
6608/11-4	1672	1672.6	oil	1672.6m	-	-	-	-	-	-	X88/0046-0

Table 12d Dibenzothiophene and C1-dibenzothiophenes peak heights

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	DBT	4 MDBT	2+3 MDBT	1 MDBT	Sample number
6608/11-4	1657	1657.6	oil	1657.6m	-	-	-	-	-	X88/0044-0
6608/11-4	1662.9	1663	oil	1663.0m	-	-	-	-	-	X88/0045-0
6608/11-4	1672	1672.6	oil	1672.6m	-	-	-	-	-	X88/0046-0

Table 12e Triaromatic steranes peak heights: TASTPH

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	a1	b1	c1	d1	e1	f1	g1	Sample number
6608/11-4	1657	1657.6	oil	1657.6m		27988	30987	19421	50285	23773	22640	18995	X88/0044-0
6608/11-4	1662.9	1663	oil	1663.0m		33022	35139	22700	65350	31081	27473	25279	X88/0045-0
6608/11-4	1672	1672.6	oil	1672.6m		31248	38462	24117	65576	30739	29089	26039	X88/0046-0

Table 12f Monoaromatic steranes peak heights: MASTPH

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	A1	B1	C1	D1	E1	F1	G1	H1	I1	Sample number
6608/11-4	1657	1657.6	oil	1657.6m		10948	6494	12389	10608	19166	4517	16484	8603	2223	X88/0044-0
6608/11-4	1662.9	1663	oil	1663.0m		14048	8433	16889	12520	25140	5899	19589	10556	2781	X88/0045-0
6608/11-4	1672	1672.6	oil	1672.6m		14061	9064	17338	12738	26592	6243	20674	10697	2659	X88/0046-0

Table 12g Triaromatic steranes m/z 231 peak height ratios: TASTRAT

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	a1/ (a1+g1)	b1/ (b1+g1)	(a1+b1)/ (a1+b1+c1+d1+e1+f1+g1)	a1/ (a1+e1+f1+g1)	a1/ (a1+d1)	Sample number
6608/11-4	1657	1657.6	oil	1657.6m		0.6	0.62	0.3	0.3	0.36	X88/0044-0
6608/11-4	1662.9	1663	oil	1663.0m		0.57	0.58	0.28	0.28	0.34	X88/0045-0
6608/11-4	1672	1672.6	oil	1672.6m		0.55	0.6	0.28	0.27	0.32	X88/0046-0

Table 12h Monoaromatic steranes m/z 253 peak height ratios: MASTRAT

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	A1/ (A1+E1)	B1/ (B1+E1)	A1/ (A1+E1+G1)	(A1+B1)/ (A1+B1+C1+D1+E1+F1+G1+H1+I1)	Sample number
6608/11-4	1657	1657.6	oil	1657.6m		0.36	0.25	0.23	0.19	X88/0044-0
6608/11-4	1662.9	1663	oil	1663.0m		0.36	0.25	0.24	0.19	X88/0045-0
6608/11-4	1672	1672.6	oil	1672.6m		0.35	0.25	0.23	0.19	X88/0046-0



Table 13 Gasoline range %C4-C9 Whole oil GC: WHOILGC

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	iC4	nC4	iC5	nC5	2,2DMC4	2,3DMC4	2MC5	3MC5	nC6	MCyC5	Benz	CyC6	2MC6	3MC6
6608/11-4	1657	1657.6	oil	1657.6m	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6608/11-4	1662.9	1663	oil	1663.0m	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6608/11-4	1672	1672.6	oil	1672.6m	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Samples heavily biodegraded no data

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	1,3ci DMCyC5	1,3tr DMCyC5	1,2tr DMCyC5	nC7	MCyC6	Tol	nC8	p/m-Xyl	Sample number
6608/11-4	1657	1657.6	oil	1657.6m	0	0	0	0	0	0	0	0	X88/0044-0
6608/11-4	1662.9	1663	oil	1663.0m	0	0	0	0	0	0	0	0	X88/0045-0
6608/11-4	1672	1672.6	oil	1672.6m	0	0	0	0	0	0	0	0	X88/0046-0

Table 14a Gas composition

Well	Sample type	Lower Depth	APT ID	C1%	C2%	C3%	iC4%	nC4%	iC5%	nC5%	CO2%	Sum C1-C5	Wetness	iC4/nC4	ppm
6608/11-4	Gas	1657.60	22339	95.3	0.54	0.02	0	0.01	0	0.00	4.1	95.9	0.60	0.46	615841
6608/11-4	Gas	1663.00	22340	94.8	0.62	0.02	0	0.01	0	0.00	4.6	95.4	0.68	0	595242
6608/11-4	Gas	1672.60	22341	97.3	0.79	0.03	0	0.01	0	0.00	1.9	98.1	0.84	0.62	632252

Table 14b Gas isotope Composition

Well	Sample type	Lower Depth	APT ID	C1 d13C	C2 d13C	C3 d13C	iC4 d13C	nC4 d13C	iC5 d13C	nC5 d13C	CO2 d13C	C1 dD	CO2 d18O
6608/11-4	Gas	1657.60	22339	-58.3	-	-	-	-	-	-	-8.5	-211	-
6608/11-4	Gas	1663.00	22340	-57.7	-	-	-	-	-	-	-8.2	-224	-15.6
6608/11-4	Gas	1672.60	22341	-58.2	-	-	-	-	-	-	-9.9	-217	-

Table 1 Analytical Program											
Well	Sample Depth (m)	Sample Type	Sample Code	Iatroscan	Solvent Extraction	MPLC & Deasphaltene	Sat GC (Quantitative)	Aro GC	Sat GCMS (Quantitative)	Aro GCMS	
	Table nos.:			∞	∞	∞	9	9	11	12	
6608/11-4	1400.00	mud		x	x	x	x	x	x	x	
6608/11-4	1605.00	mud		x	x	x	x	x	x	x	
6608/11-4	1719.00	mud		x	x	x	x	x	x	x	
6608/11-4	TOTAL			3	3	3	3	3	3	3	

Table 8a Extraction data: EXTRACT WEIGHTS

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	%Lith.	Wt. rock extracted	EOM (mg) of mud										Sample number
						(g) whole oil (mg) for topping	and sediments, Topped Oil (mg)	Sat (mg)	Aro (mg)	NSO (mg)	Asph (mg)	%TOC	HC	Non-HC			
6608/11-4	1400	1400	mud	1400 mud s	0		59.3	0.45	0.67	56.28	1.9	0	1.12	58.18	X88/0040-0		
6608/11-4	1600	1600	mud	1600 mud s	0		49	1.15	0.23	46.62	1	0	1.38	47.62	X88/0041-0		
6608/11-4	1720	1720	mud	1720 mud s	0		50	1.11	0.45	47.94	0.5	0	1.56	48.44	X88/0042-0		

Table 8d-e Extraction ratios: EXTRRAT

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	%Lith.	Table 8d					Table 8e			Sample number
						Sat/ EOM	Aro/ EOM	Asph/ EOM	NSO/ EOM	HC/ EOM	Non-HC/ EOM	Sat/ Aro	HC/ Non-HC	
6608/11-4	1400	1400	mud	1400 mud s		0.76	1.13	3.2	94.91	1.89	98.11	0.67	0.02	X88/0040-0
6608/11-4	1600	1600	mud	1600 mud s		2.35	0.47	2.04	95.13	2.83	97.17	5	0.03	X88/0041-0
6608/11-4	1720	1720	mud	1720 mud s		2.23	0.89	1	95.88	3.12	96.88	2.5	0.03	X88/0042-0

Table 8f. Iatrosan data (wts): IATRABS

Well name	Upper depth (m)	Lower depth (m)	Sample type	Sample Desc	EOM								Tot. EOM (calc.)	Sample number
					%Lith.	weighed	Sat.	Aro.	Resins	Asph.	Tot. HC	Tot. pol.		
6608/11-4	1400	1400	mud	1400 mud s	59.3		1.15	0	56.25	1.9	1.15	58.15	59.3	X88/0040-0
6608/11-4	1600	1600	mud	1600 mud s	49		1.22	0	46.78	1	1.22	47.78	49	X88/0041-0
6608/11-4	1720	1720	mud	1720 mud s	50		2.12	0	47.38	0.5	2.12	47.88	50	X88/0042-0

Table 8g. Iatrosan data, relative percentages: IATRREL

Well name	Upper depth (m)	Lower depth (m)	Sample type	Sample Desc	Relative Percentages							Sample number
					%Lith.	%Sat.	%Aro.	%Resins	%Asph.	%Tot. HC	%Tot. pol.	
6608/11-4	1400	1400	mud	1400 mud s		1.93	0	94.86	3.2	1.93	98.07	X88/0040-0
6608/11-4	1600	1600	mud	1600 mud s		2.49	0	95.47	2.04	2.49	97.51	X88/0041-0
6608/11-4	1720	1720	mud	1720 mud s		4.24	0	94.76	1	4.24	95.76	X88/0042-0

Table 9Aa Saturated GC peak areas: SATGCPA

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	%Lith.	nC15	nC16	Norpristane	nC17	Pristane	nC18	Phytane	nC19	nC20
6608/11-4	1400	1400	mud	1400 mud s		31634218	12991227	1093093	3824625	2211925	2088319	1101614	1949786	1486239
6608/11-4	1600	1600	mud	1600 mud s		9301648	3737800	280868	984066	505058	453311	236213	485930	400328
6608/11-4	1720	1720	mud	1720 mud s		14814223	5706999	411105	1413659	684489	682286	393835	656789	516542

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	nC21	nC22	nC23	nC24	nC25	nC26	nC27	nC28	nC29	nC30
6608/11-4	1400	1400	mud	1400 mud s	1212348	947026	700602	630080	371535	652211	0	0	0	0
6608/11-4	1600	1600	mud	1600 mud s	311271	248209	184299	149489	0	0	0	0	0	0
6608/11-4	1720	1720	mud	1720 mud s	389410	362750	228395	195166	145026	0	0	0	0	0

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	nC31	nC32	nC33	nC34	Sample number
6608/11-4	1400	1400	mud	1400 mud s	0	0	0	0	X88/0040-0
6608/11-4	1600	1600	mud	1600 mud s	0	0	0	0	X88/0041-0
6608/11-4	1720	1720	mud	1720 mud s	0	0	0	0	X88/0042-0

Table 9Ab Saturated GC peak heights: SATGCPH

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	%Lith.	nC15	nC16	Norpristane	nC17	Pristane	nC18	Phytane	nC19	nC20
6608/11-4	1400	1400	mud	1400 mud s		2803733	1719806	140372	574697	284110	326781	150616	275173	245550
6608/11-4	1600	1600	mud	1600 mud s		1296148	722012	38421	196185	74227	98848	37760	86979	76892
6608/11-4	1720	1720	mud	1720 mud s		1740559	972166	53992	276421	107466	136911	55539	122776	98468

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	nC21	nC22	nC23	nC24	nC25	nC26	nC27	nC28	nC29	nC30
6608/11-4	1400	1400	mud	1400 mud s	207854	172401	129944	106102	60131	39226	0	0	0	0
6608/11-4	1600	1600	mud	1600 mud s	61457	50689	41050	30949	0	0	0	0	0	0
6608/11-4	1720	1720	mud	1720 mud s	81218	70763	50935	38184	27287	0	0	0	0	0

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	nC31	nC32	nC33	nC34	Sample number
6608/11-4	1400	1400	mud	1400 mud s	0	0	0	0	X88/0040-0
6608/11-4	1600	1600	mud	1600 mud s	0	0	0	0	X88/0041-0
6608/11-4	1720	1720	mud	1720 mud s	0	0	0	0	X88/0042-0

Table 9Ac SATGC Quant. mg/g sat (peak area)

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	%Lith.	nC15	nC16	iC18	nC17	Pr	nC18	Ph	nC19	nC20
6608/11-4	1400	1400	mud	1400 mud s		169.0	69.4	5.8	20.4	11.8	11.2	5.9	10.4	7.9
6608/11-4	1600	1600	mud	1600 mud s		64.6	26.0	2.0	6.8	3.5	3.2	1.6	3.4	2.8
6608/11-4	1720	1720	mud	1720 mud s		97.1	37.4	2.7	9.3	4.5	4.5	2.6	4.3	3.4

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	nC21	nC22	nC23	nC24	nC25	nC26	nC27	nC28	nC29	nC30	nC31	nC32	nC33	nC34	Sample number
6608/11-4	1400	1400	mud	1400 mud s	6.5	5.1	3.7	3.4	2.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X88/0040-0
6608/11-4	1600	1600	mud	1600 mud s	2.2	1.7	1.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X88/0041-0
6608/11-4	1720	1720	mud	1720 mud s	2.6	2.4	1.5	1.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X88/0042-0



Table 9Ba Saturated GC ratios, peak area: SATGCRPA

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	%Lith.	Prist./nC17	Prist./Phyt.	(Prist./nC17)/(Phyt./nC18)	CPI 1	Phytane/nC18	nC17/(nC17+nC27)	(Pristane+Phytane)/(nC17+nC18)	Sample number
6608/11-4	1400	1400	mud	1400 mud s		0.58	2.01	1.1	0.43	0.53	1	0.56	X88/0040-0
6608/11-4	1600	1600	mud	1600 mud s		0.51	2.14	0.98	0	0.52	1	0.52	X88/0041-0
6608/11-4	1720	1720	mud	1720 mud s		0.48	1.74	0.84	0	0.58	1	0.51	X88/0042-0

Table 9Bb Saturated GC ratios, peak heights: SATGCRPH

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	%Lith.	Prist./nC17	Prist./Phyt.	(Prist./nC17)/(Phyt./nC18)	CPI 1	Phytane/nC18	nC17/(nC17+nC27)	(Pristane+Phytane)/(nC17+nC18)	Sample number
6608/11-4	1400	1400	mud	1400 mud s		0.49	1.89	1.07	0.97	0.46	1	0.48	X88/0040-0
6608/11-4	1600	1600	mud	1600 mud s		0.38	1.97	0.99	0	0.38	1	0.38	X88/0041-0
6608/11-4	1720	1720	mud	1720 mud s		0.39	1.93	0.96	0.36	0.41	1	0.39	X88/0042-0

Table 9Ca Aromatic GC peak areas: AROGCPA

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	%Lith.	2MN	1MN	BPh	2EN	1EN	2.6+2.7			1.3.7	1.3.6	1.3.5	1.4.6+
											DMN	1.6DMN	1.5DMN	TMN	TMN	TMN	2.3.6 TMN
6608/11-4	1400	1400	mud	bulk fraction	0	0	0	0	0	0	13500	20004	4923	16516	26696	16528	13633
6608/11-4	1600	1600	mud	bulk fraction	6034	3929	0	0	0	0	47602	23005	5664	14887	21163	10317	10115
6608/11-4	1720	1720	mud	bulk fraction	21752	14138	9210	0	0	0	41324	52962	13632	29672	45783	20415	21513

  

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	P	3MP	2MP	9MP	1MP	DBT	4	2+3	1	Sample number
											MDBT	MDBT	MDBT	
6608/11-4	1400	1400	mud	bulk fraction	33999	8358	11799	20793	12472	0	0	0	0	X88/0040-0
6608/11-4	1600	1600	mud	bulk fraction	15036	8579	13873	18573	12152	0	0	0	0	X88/0041-0
6608/11-4	1720	1720	mud	bulk fraction	16027	6914	10488	20492	7882	0	0	0	0	X88/0042-0

Table 9Cb Aromatic GC peak heights: AROGCPH

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	%Lith.	2MN	1MN	BPh	2EN	1EN	2.6+			1.3.7	1.3.6	1.3.5	1.4.6+
											2.7DMN	1.6DMN	1.5DMN	TMN	TMN	TMN	2.3.6TMN
6608/11-4	1400	1400	mud	bulk fraction	0	0	0	0	0	0	2868	3319	1346	3985	6082	4875	3511
6608/11-4	1600	1600	mud	bulk fraction	913	968	0	0	0	0	12349	3967	1488	3508	4567	3198	2570
6608/11-4	1720	1720	mud	bulk fraction	4895	3340	1794	0	0	0	8031	9230	3443	6487	9487	6613	4629

  

Well name	Upper depth (m)	Lower depth (m)	Sample type	Desc	P	3MP	2MP	9MP	1MP	DBT	4	2+3	1	Sample number
											MDBT	MDBT	MDBT	
6608/11-4	1400	1400	mud	bulk fraction	8191	1592	1960	3702	2462	0	0	0	0	X88/0040-0
6608/11-4	1600	1600	mud	bulk fraction	2740	2000	2244	3369	2811	0	0	0	0	X88/0041-0
6608/11-4	1720	1720	mud	bulk fraction	3220	1649	2207	3231	1601	0	0	0	0	X88/0042-0

Table 9Da Aromatic GC ratios, peak area: AROGCRPA

Well name	Upper depth (m)	Lower depth (m)	Sample type	Sample Desc	%Lith.	MNR	DMNR	BPhR	2/1MP	MPI 1	MPI 2	Rc	DBT/ Ph	4/1 MDBT	(3+2)/ 1MDBT	F1	F2	Sample number
6608/11-4	1400	1400	mud	1400 mud s	0	2.74	0	0.95	0.45	0.53	0.67	0	0	0	0.38	0.22	X88/0040-0	
6608/11-4	1600	1600	mud	1600 mud s	1.54	8.4	0	1.14	0.74	0.91	0.84	0	0	0	0.42	0.26	X88/0041-0	
6608/11-4	1720	1720	mud	1720 mud s	1.54	3.03	0.17	1.33	0.59	0.71	0.75	0	0	0	0.38	0.23	X88/0042-0	

Table 9Db Aromatic GC ratios, peak heights: AROGCRPH

Well name	Upper depth (m)	Lower depth (m)	Sample type	Sample Desc	%Lith.	MNR	DMNR	BPhR	2/1MP	MPI 1	MPI 2	Rc	DBT/ Ph	4/1 MDBT	(3+2)/ 1MDBT	F1	F2	Sample number
6608/11-4	1400	1400	mud	1400 mud s	0	2.13	0	0.8	0.37	0.41	0.62	0	0	0	0.37	0.2	X88/0040-0	
6608/11-4	1600	1600	mud	1600 mud s	0.94	8.3	0	0.8	0.71	0.75	0.83	0	0	0	0.41	0.22	X88/0041-0	
6608/11-4	1720	1720	mud	1720 mud s	1.47	2.33	0.19	1.38	0.72	0.82	0.83	0	0	0	0.44	0.25	X88/0042-0	

Table 11a Triterpanes peak heights, SIR: TRITPHS

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	23/3 (P)	24/3 (Q)	25/3 (R)	24/4 (S)	26/3 (T)	27Ts (A)	27Tm (B)	28ab (Z)	25nor30 ab (Z1)
6608/11-4	1400	1400	mud	1400 mud s		294	158	56	199	33	404	374	46	40
6608/11-4	1600	1600	mud	1600 mud s		337	172	64	198	38	374	329	73	56
6608/11-4	1720	1720	mud	1720 mud s		9527	6081	2476	6200	1838	12464	11656	4986	14671

  

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	29ab (C)	29Ts (C1)	30d (X)	29ba (D)	30ab (E)	30ba (F)	30G (G)	31abS (H)	31abR (I)	31ba (I)	
6608/11-4	1400	1400	mud	1400 mud s	1029	18	45	81	0	1183	131	125	580	458	63
6608/11-4	1600	1600	mud	1600 mud s	976	258	38	66	0	951	96	82	366	288	39
6608/11-4	1720	1720	mud	1720 mud s	26039	8413	3532	2794	0	38320	3942	2752	9776	7211	1207

  

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	32abS (J1)	32abR (J2)	33abS (K1)	33abR (K2)	34abS (L1)	34abR (L2)	35abS (M1)	35abR (M2)	Sample number
6608/11-4	1400	1400	mud	1400 mud s	324	220	266	190	212	148	282	224	X88/0040-0
6608/11-4	1600	1600	mud	1600 mud s	206	150	204	156	166	124	235	162	X88/0041-0
6608/11-4	1720	1720	mud	1720 mud s	5506	4069	3898	2536	2268	1292	1846	1318	X88/0042-0

Table 11b Triterpanes m/z 177 peak heights, SIR: TR177PHS

<b>Well name</b>	<b>Upper depth (m)</b>	<b>Lower depth (m)</b>	<b>Sample type</b>	<b>Description</b>	<b>% Lith.</b>	<b>25nor28ab</b>	<b>25nor30ab</b>	<b>Sample number</b>
6608/11-4	1400	1400	mud	1400 mud s		59	23	X88/0040-0
6608/11-4	1600	1600	mud	1600 mud s		118	45	X88/0041-0
6608/11-4	1720	1720	mud	1720 mud s		13793	11622	X88/0042-0

Table 11c Steranes peak heights, SIR: STERPHS

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	21a (u)	22a (v)	27dbS (a)	27dbR (b)	27daR (c)	27daS (d)	28dbS (e)	28dbR (f)
6608/11-4	1400	1400	mud	1400 mud s		319	102	141	466	154	130	165	65
6608/11-4	1600	1600	mud	1600 mud s		292	119	159	462	98	90	158	63
6608/11-4	1720	1720	mud	1720 mud s		14523	6773	13178	16014	5342	4774	8901	5368

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	28daR +27aaS (g)	29dbS +27bbR (h)	28daS +27bbS (i)	27aaR (j)	29dbR (k)	29daR (l)	28aaS (m)	29daS +28bbR (n)
6608/11-4	1400	1400	mud	1400 mud s	580	283	174	1737	183	58	46	88
6608/11-4	1600	1600	mud	1600 mud s	630	304	185	1926	228	64	56	96
6608/11-4	1720	1720	mud	1720 mud s	8740	15282	9364	15005	11051	4772	4497	7417

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	28bbS (o)	28aaR (p)	29aaS (q)	29bbR (r)	29bbS (s)	29aaR (t)	Sample number
6608/11-4	1400	1400	mud	1400 mud s	75	44	69	116	100	94	X88/0040-0
6608/11-4	1600	1600	mud	1600 mud s	95	51	78	139	116	92	X88/0041-0
6608/11-4	1720	1720	mud	1720 mud s	9356	3993	6249	9785	8281	5957	X88/0042-0

Table 11d Steranes m/z 218 peak heights, SIR: ST218PHS

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	27bbR (h)	27bbS (i)	28bbR (n)	28bbS (o)	29bbR (r)	29bbS (s)	30bbR (x)	30bbS (y)	Sample number
6608/11-4	1400	1400	mud	1400 mud s		275	231	133	136	170	155	32	35	X88/0040-0
6608/11-4	1600	1600	mud	1600 mud s		313	261	126	138	207	191	30	28	X88/0041-0
6608/11-4	1720	1720	mud	1720 mud s		13023	10251	8511	10311	11554	11445	2774	3022	X88/0042-0

Table 11e Triterpanes m/z 191 SIR, quantified in ng compound/g oil (ppb) (peak heights): TRITPHSQ

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	23/3 (P)	24/3 (Q)	25/3 (R)	24/4 (S)	26/3 (T)	27Ts (A)	27Tm (B)	28ab (Z)	25nor30ab (Z1)
6608/11-4	1400	1400	mud	1400 mud s		167	90	31	113	19	229	212	26	23
6608/11-4	1600	1600	mud	1600 mud s		200	102	38	118	23	223	196	44	33
6608/11-4	1720	1720	mud	1720 mud s		1363	870	354	887	263	1783	1668	713	2099

  

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	29ab (C)	29Ts (C1)	30d (X)	29ba (D)	30O (E)	30ab (F)	30ba (G)	31abS (H)	31abR (I)	31ba (I)	
6608/11-4	1400	1400	mud	1400 mud s		582	10	26	46	0	669	74	71	328	259	36
6608/11-4	1600	1600	mud	1600 mud s		581	153	22	39	0	566	57	49	218	172	23
6608/11-4	1720	1720	mud	1720 mud s		3726	1204	505	400	0	5483	564	394	1399	1032	173

  

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	32abS (J1)	32abR (J2)	33abS (K1)	33abR (K2)	34abS (L1)	34abR (L2)	35abS (M1)	35abR (M2)	Sample number
6608/11-4	1400	1400	mud	1400 mud s	184	125	150	107	120	84	160	127	X88/0040-0
6608/11-4	1600	1600	mud	1600 mud s	123	89	122	93	99	74	140	96	X88/0041-0
6608/11-4	1720	1720	mud	1720 mud s	788	582	558	363	325	185	264	189	X88/0042-0



Table 11f Triterpanes m/z 177 SIR, quantified in ng compound/g oil (ppb) (peak heights): TRIT177PHSQ

<b>Well name</b>	<b>Upper depth (m)</b>	<b>Lower depth (m)</b>	<b>Sample type</b>	<b>Description</b>	<b>% Lith.</b>	<b>25nor28ab</b>	<b>25nor30ab</b>	<b>Sample number</b>
6608/11-4	1400	1400	mud	1400mud	33	13		X88/0040-0
6608/11-4	1600	1600	mud	1600mud	70	27		X88/0041-0
6608/11-4	1720	1720	mud	1720mud	1974	1663		X88/0042-0

Table 11g Steranes m/z 217 SIR, quantified in ng compound/g oil (ppb) (peak heights): STERPHSQ

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	21a (u)	22a (v)	27dbS (a)	27dbR (b)	27daR (c)	27daS (d)	28dbS (e)	28dbR (f)	28daR +27aaS (g)
6608/11-4	1400	1400	mud	1400 mud s		180	58	80	264	87	74	93	37	329
6608/11-4	1600	1600	mud	1600 mud s		174	71	94	275	58	53	94	37	375
6608/11-4	1720	1720	mud	1720 mud s		2078	969	1886	2291	764	683	1274	768	1251

  

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	29dbS +27bbR (h)	28daS +27bbS (i)	27aaR (j)	29dbR (k)	29daR (l)	28aaS (m)	29daS +28bbR (n)
6608/11-4	1400	1400	mud	1400 mud s		160	98	983	104	33	26	50
6608/11-4	1600	1600	mud	1600 mud s		181	110	1146	136	38	34	57
6608/11-4	1720	1720	mud	1720 mud s		2187	1340	2147	1581	683	643	1061

  

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	28bbS (o)	28aaR (p)	29aaS (q)	29bbR (r)	29bbS (s)	29aaR (t)	Sample number
6608/11-4	1400	1400	mud	1400 mud s	43	25	39	65	56	53	X88/0040-0
6608/11-4	1600	1600	mud	1600 mud s	57	30	47	83	69	55	X88/0041-0
6608/11-4	1720	1720	mud	1720 mud s	1339	571	894	1400	1185	852	X88/0042-0

Table 11h Steranes m/z 218 SIR, quantified in ng compound/g oil (ppb) (peak heights): STERPHSQ

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	27bbR (h)	27bbS (i)	28bbR (n)	28bbS (o)	29bbR (r)	29bbS (s)	30bbR (x)	30bbS (y)	Sample number
6608/11-4	1400	1400	mud	1400 mud s		155	131	75	77	96	88	18	20	X88/0040-0
6608/11-4	1600	1600	mud	1600 mud s		186	155	75	82	123	114	18	17	X88/0041-0
6608/11-4	1720	1720	mud	1720 mud s		1863	1467	1218	1475	1653	1638	397	432	X88/0042-0

Table 11i Amount of saturated hydrocarbon standard (d4 cholestane) and weight of sample

<b>Well name</b>	<b>Upper depth (m)</b>	<b>Lower depth (m)</b>	<b>Sample type</b>	<b>Description</b>	<b>% Lith.</b>	<b>Standard</b>	<b>Amount</b>	<b>Weight</b>	<b>Sample number</b>
6608/11-4	1400	1400	mud	1400 mud s		59581	2.000	59.3	X88/0040-0
6608/11-4	1600	1600	mud	1600 mud s		68587	2.000	49.0	X88/0041-0
6608/11-4	1720	1720	mud	1720 mud s		279558	2.000	50.0	X88/0042-0

Table 11j Triterpanes m/z 191 peak height ratios, SIR: TRITRATS

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	Ratio 1	Ratio 2	Ratio 3	Ratio 4	Ratio 5	Ratio 6	Ratio 7	Ratio 8	Ratio 9	Ratio 10
6608/11-4	1400	1400	mud	1400 mud s		0.92	0.48	0.22	0.87	0.47	0.04	0.04	0.04	0.04	0.13
6608/11-4	1600	1600	mud	1600 mud s		0.88	0.47	0.24	1.03	0.51	0.04	0.08	0.07	0.07	0.18
6608/11-4	1720	1720	mud	1720 mud s		0.94	0.48	0.22	0.68	0.40	0.09	0.13	0.19	0.12	0.16

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	Ratio 11	Ratio 12	Ratio 13	Ratio 14	Sample number
6608/11-4	1400	1400	mud	1400 mud s	0.90	0.46	0.10	59.55	X88/0040-0
6608/11-4	1600	1600	mud	1600 mud s	0.91	0.50	0.08	57.80	X88/0041-0
6608/11-4	1720	1720	mud	1720 mud s	0.91	0.41	0.10	57.50	X88/0042-0

Table 11k Steranes m/z 217 peak height ratios, SIR: STERRATS

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	Ratio 1	Ratio 2	Ratio 3	Ratio 4	Ratio 5	Ratio 6	Ratio 7	Ratio 8	Ratio 9	Ratio 10	Sample number
6608/11-4	1400	1400	mud	1400 mud s		0.08	42.46	72.51	1.46	0.76	0.53	0.38	0.57	0.74	2.29	X88/0040-0
6608/11-4	1600	1600	mud	1600 mud s		0.08	46.02	75.00	1.17	0.77	0.49	0.35	0.60	0.85	2.78	X88/0041-0
6608/11-4	1720	1720	mud	1720 mud s		0.47	51.20	74.75	1.02	0.74	0.41	0.29	0.60	1.05	3.03	X88/0042-0

Saturated Fraction GCMS Ratio definitions

in Tables	Triterpanes	Steranes
Ratio 1	$27Tm/27Ts$	$27d\beta S/(27d\beta S+27\alpha\alpha R)$
Ratio 2	$27Tm/(27Tm+27Ts)$	$29\alpha\alpha S/(29\alpha\alpha S+29\alpha\alpha R)\%$
Ratio 3	$27Tm/(27Tm+30\alpha\beta+30\beta\alpha)$	$2*(29\beta\beta R+29\beta\beta S)/(29\alpha\alpha S+29\alpha\alpha R+2*[29\beta\beta R+29\beta\beta S])\%$
Ratio 4	$29\alpha\beta/30\alpha\beta$	$(27d\beta S+27d\beta R+27d\alpha R+27d\alpha S)/(29d\beta S+29d\beta R+29d\alpha R+29d\alpha S)$
Ratio 5	$29\alpha\beta/(29\alpha\beta+30\alpha\beta)$	$(29\beta\beta R+29\beta\beta S)/(29\alpha\alpha S+29\beta\beta R+29\beta\beta S)$
Ratio 6	$30d/30\alpha\beta$	$21\alpha+22\alpha/(21\alpha+22\alpha+29\alpha\alpha S+29\beta\beta R+29\beta\beta S+29\alpha\alpha R)$
Ratio 7	$28\alpha\beta/30\alpha\beta$	$21\alpha+22\alpha/(21\alpha+22\alpha+28d\alpha S+28\alpha\alpha S+29d\alpha R+29\alpha\alpha S+29\beta\beta R+29\beta\beta S+29\alpha\alpha R)$
Ratio 8	$28\alpha\beta/29\alpha\beta$	$(29\beta\beta R+29\beta\beta S)/(29\alpha\alpha S+29\beta\beta R+29\beta\beta S+29\alpha\alpha R)$
Ratio 9	$28\alpha\beta/(28\alpha\beta+30\alpha\beta)$	$29\alpha\alpha S/29\alpha\alpha R$
Ratio 10	$24/3/30\alpha\beta$	$(29\beta\beta R+29\beta\beta S)/29\alpha\alpha R$
Ratio 11	$30\alpha\beta/(30\beta\alpha+30\alpha\beta)$	
Ratio 12	$(29\alpha\beta+29\beta\alpha)/(29\alpha\beta+29\beta\alpha+30\alpha\beta+30\beta\alpha)$	
Ratio 13	$(29\beta\alpha+30\beta\alpha)/(29\alpha\beta+30\alpha\beta)$	
Ratio 14	$32\alpha\beta S/(32\alpha\beta S+32\alpha\beta R)\%$	

Table 12a C1-C2 naphthalenes peak heights

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	2MN	1MN	2EN	1EN	2.6+ 2.7- DMN	1.3+ 1.7- DMN	1.6- DMN	2.3+ 1.4- DMN	1.5- DMN	1.2- DMN	Sample number
6608/11-4	1400	1400	mud	1400 mud s		233	609	1007	534	8286	16516	10857	5305	3163	2678	X88/0040-0
6608/11-4	1600	1600	mud	1600 mud s		7744	7207	11299	4064	53020	89324	60437	23172	14442	11557	X88/0041-0
6608/11-4	1720	1720	mud	1720 mud s		28252	21665	8629	3027	46719	64629	51083	23420	12467	9473	X88/0042-0

Table 12b C3-naphthalenes peak heights

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	1.3.7- TMN	1.3.6-TMN	1.3.5+ 1.4.6 TMN	2.3.6-TMN	1.6.7+ 1.2.7 TMN	1.2.6-TMN	1.2.4-TMN	1.2.5-TMN	Sample number
6608/11-4	1400	1400	mud	1400 mud s		19603	29008	24215	15798	14520	8863	2882	9392	X88/0040-0
6608/11-4	1600	1600	mud	1600 mud s		56415	91879	71207	47733	44964	29345	9442	37441	X88/0041-0
6608/11-4	1720	1720	mud	1720 mud s		43917	62433	46009	36847	26021	19848	5545	15525	X88/0042-0

Table 12c Phenanthrene and C1-Phenanthrenes peak heights

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	P	3MP	2MP	9MP	1MP	Sample number
6608/11-4	1400	1400	mud	1400 mud s		20309	15915	18312	19374	13211	X88/0040-0
6608/11-4	1600	1600	mud	1600 mud s		62503	29271	35744	33935	31715	X88/0041-0
6608/11-4	1720	1720	mud	1720 mud s		49768	27430	29754	27125	19048	X88/0042-0

Table 12d Dibenzothiophene and C1-dibenzothiophenes peak heights

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	DBT	4 MDBT	2+3 MDBT	1 MDBT	Sample number
6608/11-4	1400	1400	mud	1400 mud s		2222	4654	1059	1329	X88/0040-0
6608/11-4	1600	1600	mud	1600 mud s		4577	9809	2010	1918	X88/0041-0
6608/11-4	1720	1720	mud	1720 mud s		5345	10101	2363	2918	X88/0042-0

Table 12e Triaromatic steranes peak heights: TASTPH

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	a1	b1	c1	d1	e1	f1	g1	Sample number
6608/11-4	1400	1400	mud	1400 mud s		659	373	199	681	289	307	370	X88/0040-0
6608/11-4	1600	1600	mud	1600 mud s		2306	1746	916	3381	1833	1607	1627	X88/0041-0
6608/11-4	1720	1720	mud	1720 mud s		16514	17476	14695	36150	18493	16546	19146	X88/0042-0

Table 12f Monoaromatic steranes peak heights: MASTPH

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	A1	B1	C1	D1	E1	F1	G1	H1	I1	Sample number
6608/11-4	1400	1400	mud	1400 mud s	861	520	328	381	897	183	841	688	412	X88/0040-0	
6608/11-4	1600	1600	mud	1600 mud s	2584	1815	1736	1753	3157	638	3228	1800	280	X88/0041-0	
6608/11-4	1720	1720	mud	1720 mud s	9837	6623	12900	11163	23127	5268	16117	9146	3122	X88/0042-0	



Table 12g Triaromatic steranes m/z 231 peak height ratios: TASTRAT

Well name	Upper depth (m)	Lower depth	Sample type	Description	% Lith.	a1/ (a1+g1)	b1/ (b1+g1)	(a1+b1)/ (a1+b1+c1+d1+ e1+f1+g1)	a1/ (a1+e1+f1+g1)	a1/ (a1+d1)	Sample number
6608/11-4	1400	1400	mud	1400 mud s		0.64	0.5	0.36	0.41	0.49	X88/0040-0
6608/11-4	1600	1600	mud	1600 mud s		0.59	0.52	0.3	0.31	0.41	X88/0041-0
6608/11-4	1720	1720	mud	1720 mud s		0.46	0.48	0.24	0.23	0.31	X88/0042-0

Table 12h Monoaromatic steranes m/z 253 peak height ratios: MASTRAT

Well name	Upper depth (m)	Lower depth (m)	Sample type	Description	% Lith.	A1/ (A1+E1)	B1/ (B1+E1)	A1/ (A1+E1+G1)	(A1+B1)/ (A1+B1+C1+D1+E1+F1+G1+H1+I1)	Sample number
6608/11-4	1400	1400	mud	1400 mud s		0.49	0.37	0.33	0.27	X88/0040-0
6608/11-4	1600	1600	mud	1600 mud s		0.45	0.36	0.29	0.26	X88/0041-0
6608/11-4	1720	1720	mud	1720 mud s		0.3	0.22	0.2	0.17	X88/0042-0