

Date	Hole size	Hole depth	Mud weight	PV	YP	Gel strength	pH	Alkalinity Pf /Mf	Ca++ mg/l	Cl- mg/l	Sand %	Solids %	Mudtype
970405	PSPUD					/		/					SPUD MUD
970406	PSPUD					/		/					SPUD MUD
970407	PSPUD					/		/					SPUD MUD
970408	PSPUD					/		/					SPUD MUD
970409	PSPUD					/		/					SPUD MUD
970410	36"					/		/					SPUD MUD
970411	36"	407.0	1.20			/	9.5	/					SPUD MUD
970412	36"	407.0	1.04			/	9.5	/					SPUD MUD
970413	36"	407.0				/		/					SPUD MUD
970414	17 1/2"	632.0	1.26	23.0	20.0	5/9	7.6	.2/.9	320	40000		6.8	KCl MUD
970415	17 1/2"	1145.0	1.30	21.0	26.0	7/12	8.0	.1/1.2	360	47000		10.4	KCl MUD
970416	17 1/2"	1395.0	1.32	19.0	28.0	8/14	8.0	.1/1.1	380	51000	.5	10.1	KCl MUD
970417	17 1/2"	1395.0	1.32	20.0	25.0	8/15	7.8	.1/1.0	360	50500	.5	10.2	KCl MUD
970418	12 1/4"	1435.0	1.43	24.0	27.0	7/13	8.5	.1/2.0	520	71000	.5	12.8	KCl MUD
970419	12 1/4"	2160.0	1.44	24.0	29.0	7/14	7.5	.1/1.6	520	75000	.5	13.7	KCl MUD
970420	12 1/4"	2698.0	1.45	29.0	32.0	7/14	7.5	/1.5	560	78000	.5	14.0	KCl MUD
970421	12 1/4"	2724.0	1.45	29.0	30.0	7/13	7.5	/1.5	560	77000	.5	14.0	KCl MUD
970422	12 1/4"	2726.0	1.45	31.0	28.0	6/13	8.0	/2.0	520	80000	.5	13.8	KCl MUD
970423	12 1/4"	2886.0	1.45	31.0	25.0	6/15	7.8	/2.0	480	76000	.8	14.2	KCl MUD
970424	12 1/4"	2886.0	1.45	30.0	26.0	6/15	8.0	/2.0	480	76000	.8	19.5	KCl MUD
970425	12 1/4"	2886.0	1.45	31.0	26.0	6/14	8.0	/2.0	480	76000	.8	19.5	KCl MUD
970426	12 1/4"	2886.0	1.45	31.0	26.0	6/14	8.0	/2.0	480	76000	.8	19.5	KCl MUD
970427	12 1/4"	2887.0	1.45	32.0	25.0	8/14	8.0	/2.0	480	76000	.8	19.5	KCl MUD
970428	12 1/4"	2887.0	1.46	32.0	33.0	6/16	8.2	/2.2	480	74000	.8	20.0	KCl MUD
970429	12 1/4"	2887.0	1.46	37.0	29.0	7/16	8.3	/2.5	480	74000	.8	20.0	KCl MUD
970430	12 1/4"	2887.0	1.46	37.0	29.0	7/16	8.5	/2.4	440	73000	.8	20.5	KCl MUD
970501	8 1/2"	2888.0	1.48	40.0	36.0	8/18	10.5	/2.5	480	73000	.8	20.5	KCl MUD

Well: 15/12-11S

Date	Hole size	Hole depth	Mud weight	PV	YP	Gel strength	pH	Alkalinity Pf /Mf	Ca++ mg/l	Cl- mg/l	Sand %	Solids %	Mudtype
970502	8 1/2"	3053.0	1.51	41.0	33.0	6/15	8.3	/2.0	300	43000	.3	20.5	KCl MUD
970503	8 1/2"	3091.0	1.50	36.0	40.0	8/18	8.1	/1.8	400	45000	.5	20.5	KCl MUD
970504	8 1/2"	3092.0	1.53	42.0	35.0	7/17	8.3	/1.6	240	42000	.8	22.0	KCl MUD
970505	8 1/2"	3238.0	1.50	39.0	37.0	8/20	8.2	/1.2	240	43000	.8	21.0	KCl MUD
970506	8 1/2"	3264.0	1.50	36.0	36.0	8/20	8.2	/1.0	240	48000	.8	22.0	KCl MUD
970507	8 1/2"	3317.0	1.50	33.0	32.0	7/17	8.2	/.9	200	62000	.5	20.0	KCl MUD
970508	8 1/2"	3336.0	1.50	26.0	29.0	6/10	8.0	/1.4	200	88000	.5	22.0	KCl MUD
970509	8 1/2"	3400.0	1.50	27.0	30.0	7/10	8.2	/1.2	160	92000	.8	22.0	KCl MUD
970510	8 1/2"	3420.0	1.50	27.0	29.0	7/10	8.2	/1.2	160	91500	.8	22.0	KCl MUD
970511	8 1/2"	3597.0	1.50	27.0	38.0	8/14	8.1	/1.2	200	88000	.8	22.0	KCl MUD
970512	8 1/2"	3597.0	1.50	27.0	38.0	8/14	8.1	/1.2	200	88000	.8	22.0	KCl MUD
970513	8 1/2"	3597.0	1.50	27.0	38.0	8/14	8.1	/1.2	200	88000	.8	22.0	KCl MUD
970514	8 1/2"	3597.0	1.50	31.0	41.0	9/14	8.2	/1.2	200	87000	.8	22.0	KCl MUD
970515	8 1/2"	3398.5	1.50	31.0	41.0	9/15	8.2	/1.2	200	87000	.8	22.0	KCl MUD
970516	8 1/2"	3398.5	1.53	28.0	17.0	6/16	12.0	.2/1.2	880	83000	.8	22.5	KCl MUD
970517	8 1/2"	3398.5	1.32	23.0	20.0	5/14	9.6	.1/1.2	560	70000	.8	14.5	KCl MUD
970518	8 1/2"		1.03			/		/					WATER BASED
970519						/		/					WATER BASED
970520						/		/					WATER BASED

Table 6.2.2. Mud Materials Used.

Material	Unit	36"	17 1/2"	12 1/4"	8 1/2"	P&A	Total
Anco 208	KG		3650	31700	17200		52550
Barite	MT	40	209	134	204	49	636
Bentonite	MT	38			22		60
Citric Acid	KG		500	3000	250		3750
KCL Brine	M3		410	170	120		700
KCL Powder	KG			14000	19000		33000
Lime	KG	20					20
Sod. Bicarb	KG		1450	4275	350		6075
Soda Ash	KG	650	25		75		750
CMC-EHV	KG	75	75				150
Flowzan	KG		3100	650	1025	125	4900
Lampac LV	KG		11875	5125	350		17350
Antisol HT 5050	KG				3350		3350
Anco Resin	KG				2075		2075
Driscal D	KG				3231		3231
Hostadrill 2825	KG				200		200
Nut Plug Fine	KG				2000		2000

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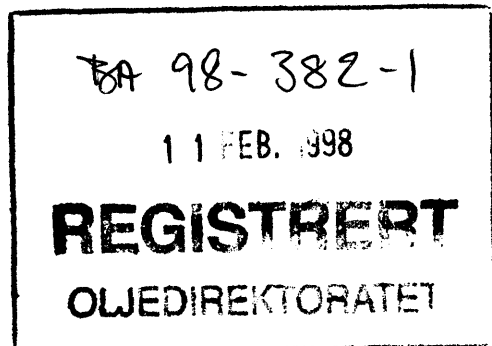
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GEOCHEMICAL ANALYSIS OF WELL 15/12-11S

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SUMMARY & INTRODUCTION

Client name	Saga Petroleum A.S.A.
Well names	15/12-11S
Location	Norwegian North Sea
Dates of receipt (cuttings)	24/6/97
Dates of analysis	1/7/97 - 29/10/97
Sample types	Cuttings
RL job no	97009
Client ref. nos.	K-FK-94-052/EUG-008

Wet ditch cuttings were received in geochemical cans from the interval 410.0 to 3591.0 m, two hundred and eighty-nine samples were submitted for analysis.

The objective of this report is to present analytical data produced from the samples documented above. All selection of analysis was carried out by Saga's personnel. The isotope analysis presented in this report was performed, at Saga's request, by IFE.

The tables on pages 4 to 10 of this report fully document the analysis carried out on each sample.

EXPERIMENTAL PROCEDURES

Unless otherwise stated, analysis was carried out following 'the Norwegian Industry Guide to Organic Geochemical Analysis, November 1992'. A detailed table documenting the methodologies adopted can be found overleaf.

EXPERIMENTAL PROCEDURES (Table 1)

ANALYSIS	INSTRUMENT	METHOD	TEMPERATURE PROGRAM	COLUMN
Headspace gas	Perkin Elmer Sigma 3	NPD method	Isothermal 110C	1/8" SS, packed
Occluded gas	Perkin Elmer Sigma 3	NPD method	Isothermal 110C	1/8" SS, packed
Gas Isotopes +	VG Optima Mass Spectrometer	NPD method		Poraplot Q
TOC	Leco CS 125	OLS 1 *		
Rock Eval Pyrolysis	Rock Eval II	OLS 5 *	Cycle 1	
Quantitative Extraction	Soxhtec Tecator 1043	NPD method	Boil 1 hr, rinse 2hrs (DCM:MeOH, 7:1)	
Asphaltene precipitation		NPD method		
Hydrocarbon separation	Kontron HPLC	NPD method		Lobar Lichroprep Si60
Alkane GC	HP5890a (on column)	NPD method	80C 1min, 5C/min to 300C, 300C 20 min.	CP SIL-5 (30m)
Aromatic GC	AI 92	NPD method	80C 1min, 4C.min to 300C, 300C 20 min.	CP SIL-8 (50m)
Pyrolysis GC **	HP5790	NPD method	30C, 6C/min to 300C, 300C 20 min.	GC-1 (30m)
Alkane GC/MS	Finnegan 4000	OLS 27	50C 1min, 15C/min to 145C, 3.3C/min to 310C 15 min.	DB-5MS (30m)

+ - Gas Isotope Analysis was subcontracted to IFE at the request of the client.

* - TOC and Rock Eval methods are comparable with NPD method. However we do not have Black Ven Marl. Consequently, the Rock Eval was calibrated with a standard related to Delsi IFP standard. In house check standards are run at greater frequency than prescribed in the NPD guidelines. Furthermore, both these methods are NAMAS accredited. Robertson Laboratories has been NAMAS accredited for the majority of its geochemical services since 1991. NAMAS, an organisation established by the UK government, has reciprocal agreements with Norske Veritas. NAMAS accreditation is specifically designed for laboratory testing and is broadly based on ISO 9001. Robertson Laboratories were audited by Saga (Audit no. SAGA-93-110) and its geochemical methods which are accredited by NAMAS were found to be satisfactory.

** - Pyrolysis GC analysis was subcontracted to GC2 Chromatography Ltd.

ANALYTICAL PROGRAM (Table 2)

Well	Sample Name	Upper Depth	Lower Depth	Sample Type	Headspace gas analysis	Occluded gas analysis	Gas isotope analysis	Lithology descriptions	TQC	RockEvalPyrolysis	Pyrolysis GC	Solvent Extraction	Asphaltene content	MPLC	Saturate GC	Aromatic GC	Saturate GC/MS
15/12-11S	97009-1	410.0	410.0	Cuttings	X	X		X									
15/12-11S	97009-2	420.0	420.0	Cuttings	X	X		X									
15/12-11S	97009-3	440.0	440.0	Cuttings	X	X		X									
15/12-11S	97009-4	450.0	450.0	Cuttings	X	X		X									
15/12-11S	97009-5	460.0	460.0	Cuttings	X	X		X									
15/12-11S	97009-6	470.0	470.0	Cuttings	X	X		X									
15/12-11S	97009-7	480.0	480.0	Cuttings	X	X		X									
15/12-11S	97009-8	500.0	500.0	Cuttings	X	X		X									
15/12-11S	97009-9	510.0	510.0	Cuttings	X	X		X									
15/12-11S	97009-10	520.0	520.0	Cuttings	X	X		X									
15/12-11S	97009-11	540.0	540.0	Cuttings	X	X		X									
15/12-11S	97009-12	550.0	550.0	Cuttings	X	X		X									
15/12-11S	97009-13	560.0	560.0	Cuttings	X	X		X									
15/12-11S	97009-14	570.0	570.0	Cuttings	X	X		X									
15/12-11S	97009-15	580.0	580.0	Cuttings	X	X		X									
15/12-11S	97009-16	620.0	620.0	Cuttings	X	X		X									
15/12-11S	97009-17	630.0	630.0	Cuttings	X	X		X									
15/12-11S	97009-18	640.0	640.0	Cuttings	X	X		X									
15/12-11S	97009-19	650.0	650.0	Cuttings	X	X		X									
15/12-11S	97009-20	670.0	670.0	Cuttings	X	X		X									
15/12-11S	97009-21	680.0	680.0	Cuttings	X	X		X									
15/12-11S	97009-22	690.0	690.0	Cuttings	X	X		X									
15/12-11S	97009-23	700.0	700.0	Cuttings	X	X		X									
15/12-11S	97009-24	710.0	710.0	Cuttings	X	X		X									
15/12-11S	97009-25	720.0	720.0	Cuttings	X	X		X									
15/12-11S	97009-26	730.0	730.0	Cuttings	X	X		X									
15/12-11S	97009-27	740.0	740.0	Cuttings	X	X		X									
15/12-11S	97009-28	750.0	750.0	Cuttings	X	X		X									
15/12-11S	97009-29	760.0	760.0	Cuttings	X	X		X									
15/12-11S	97009-30	770.0	770.0	Cuttings	X	X		X									
15/12-11S	97009-31	780.0	780.0	Cuttings	X	X		X									
15/12-11S	97009-32	790.0	790.0	Cuttings	X	X		X									
15/12-11S	97009-33	830.0	830.0	Cuttings	X	X		X									
15/12-11S	97009-34	840.0	840.0	Cuttings	X	X		X									
15/12-11S	97009-35	850.0	850.0	Cuttings	X	X		X									
15/12-11S	97009-36	860.0	860.0	Cuttings	X	X		X									
15/12-11S	97009-37	870.0	870.0	Cuttings	X	X		X									
15/12-11S	97009-38	880.0	880.0	Cuttings	X	X		X									
15/12-11S	97009-39	890.0	890.0	Cuttings	X	X		X									
15/12-11S	97009-40	900.0	900.0	Cuttings	X	X		X									
15/12-11S	97009-41	910.0	910.0	Cuttings	X	X		X									
15/12-11S	97009-42	920.0	920.0	Cuttings	X	X		X									
15/12-11S	97009-43	930.0	930.0	Cuttings	X	X		X									
15/12-11S	97009-44	940.0	940.0	Cuttings	X	X		X									
15/12-11S	97009-45	950.0	950.0	Cuttings	X	X		X									
15/12-11S	97009-46	960.0	960.0	Cuttings	X	X		X									
15/12-11S	97009-47	970.0	970.0	Cuttings	X	X		X									
15/12-11S	97009-48	980.0	980.0	Cuttings	X	X		X									
15/12-11S	97009-49	990.0	990.0	Cuttings	X	X		X									

ANALYTICAL PROGRAM (Table 2)

Well	Sample Name	Upper Depth	Lower Depth	Sample Type	Headspace gas analysis	Occluded gas analysis	Gas isotops analysis	Lithology descriptions	TOC	RockEvalPyrolysis	Pyrolysis GC	Solvent Extraction	Asphaltene content	MPLC	Saturate GC	Aromatic GC	Saturate GC/MS
15/12-11S	97009-50	1000.0	1000.0	Cuttings	X	X	X										
15/12-11S	97009-51	1010.0	1010.0	Cuttings	X	X	X										
15/12-11S	97009-52	1020.0	1020.0	Cuttings	X	X	X										
15/12-11S	97009-53	1030.0	1030.0	Cuttings	X	X	X										
15/12-11S	97009-54	1040.0	1040.0	Cuttings	X	X	X										
15/12-11S	97009-55	1050.0	1050.0	Cuttings	X	X	X										
15/12-11S	97009-56	1060.0	1060.0	Cuttings	X	X	X										
15/12-11S	97009-57	1070.0	1070.0	Cuttings	X	X	X										
15/12-11S	97009-58	1080.0	1080.0	Cuttings	X	X	X										
15/12-11S	97009-59	1090.0	1090.0	Cuttings	X	X	X										
15/12-11S	97009-60	1100.0	1100.0	Cuttings	X	X	X										
15/12-11S	97009-61	1120.0	1120.0	Cuttings	X	X	X										
15/12-11S	97009-62	1130.0	1130.0	Cuttings	X	X	X										
15/12-11S	97009-63	1140.0	1140.0	Cuttings	X	X	X										
15/12-11S	97009-64	1150.0	1150.0	Cuttings	X	X	X										
15/12-11S	97009-65	1160.0	1160.0	Cuttings	X	X	X										
15/12-11S	97009-66	1170.0	1170.0	Cuttings	X	X	X										
15/12-11S	97009-67	1180.0	1180.0	Cuttings	X	X	X										
15/12-11S	97009-68	1190.0	1190.0	Cuttings	X	X	X										
15/12-11S	97009-69	1200.0	1200.0	Cuttings	X	X	X										
15/12-11S	97009-70	1210.0	1210.0	Cuttings	X	X	X										
15/12-11S	97009-71	1220.0	1220.0	Cuttings	X	X	X										
15/12-11S	97009-72	1230.0	1230.0	Cuttings	X	X	X										
15/12-11S	97009-73	1240.0	1240.0	Cuttings	X	X	X										
15/12-11S	97009-74	1250.0	1250.0	Cuttings	X	X	X										
15/12-11S	97009-75	1260.0	1260.0	Cuttings	X	X	X										
15/12-11S	97009-76	1270.0	1270.0	Cuttings	X	X	X										
15/12-11S	97009-77	1280.0	1280.0	Cuttings	X	X	X										
15/12-11S	97009-78	1300.0	1300.0	Cuttings	X	X	X										
15/12-11S	97009-79	1310.0	1310.0	Cuttings	X	X	X										
15/12-11S	97009-80	1330.0	1330.0	Cuttings	X	X	X										
15/12-11S	97009-81	1340.0	1340.0	Cuttings	X	X	X										
15/12-11S	97009-82	1350.0	1350.0	Cuttings	X	X	X										
15/12-11S	97009-83	1360.0	1360.0	Cuttings	X	X	X										
15/12-11S	97009-84	1370.0	1370.0	Cuttings	X	X	X										
15/12-11S	97009-85	1380.0	1380.0	Cuttings	X	X	X										
15/12-11S	97009-86	1390.0	1390.0	Cuttings	X	X	X										
15/12-11S	97009-87	1400.0	1400.0	Cuttings	X	X	X										
15/12-11S	97009-88	1410.0	1410.0	Cuttings	X	X	X										
15/12-11S	97009-89	1430.0	1430.0	Cuttings	X	X	X										
15/12-11S	97009-90	1440.0	1440.0	Cuttings	X	X	X										
15/12-11S	97009-91	1460.0	1460.0	Cuttings	X	X	X										
15/12-11S	97009-92	1490.0	1490.0	Cuttings	X	X	X										
15/12-11S	97009-93	1500.0	1500.0	Cuttings	X	X	X										
15/12-11S	97009-94	1520.0	1520.0	Cuttings	X	X	X										
15/12-11S	97009-95	1540.0	1540.0	Cuttings	X	X	X										
15/12-11S	97009-96	1560.0	1560.0	Cuttings	X	X	X										
15/12-11S	97009-97	1580.0	1580.0	Cuttings	X	X	X										
15/12-11S	97009-98	1590.0	1590.0	Cuttings	X	X	X										

ANALYTICAL PROGRAM (Table 2)

Well	Sample Name	Upper Depth	Lower Depth	Sample Type	Headspace gas analysis	Occluded gas analysis	Gas isotope analysis	Lithology descriptions	TOC	RockEvalPyrolysis	Pyrolysis GC	Solvent Extraction	Asphaltene content	MPLC	Saturate GC	Aromatic GC	Saturate GC/MS
15/12-11S	97009-99	1610.0	1610.0	Cuttings	X	X	X										
15/12-11S	97009-100	1620.0	1620.0	Cuttings	X	X	X										
15/12-11S	97009-101	1650.0	1650.0	Cuttings	X	X	X										
15/12-11S	97009-102	1660.0	1660.0	Cuttings	X	X	X										
15/12-11S	97009-103	1670.0	1670.0	Cuttings	X	X	X										
15/12-11S	97009-104	1690.0	1690.0	Cuttings	X	X	X										
15/12-11S	97009-105	1700.0	1700.0	Cuttings	X	X	X										
15/12-11S	97009-106	1720.0	1720.0	Cuttings	X	X	X										
15/12-11S	97009-107	1730.0	1730.0	Cuttings	X	X	X										
15/12-11S	97009-108	1740.0	1740.0	Cuttings	X	X	X										
15/12-11S	97009-109	1750.0	1750.0	Cuttings	X	X	X										
15/12-11S	97009-110	1760.0	1760.0	Cuttings	X	X	X										
15/12-11S	97009-111	1770.0	1770.0	Cuttings	X	X	X										
15/12-11S	97009-112	1780.0	1780.0	Cuttings	X	X	X										
15/12-11S	97009-113	1790.0	1790.0	Cuttings	X	X	X										
15/12-11S	97009-114	1800.0	1800.0	Cuttings	X	X	X										
15/12-11S	97009-115	1810.0	1810.0	Cuttings	X	X	X										
15/12-11S	97009-116	1820.0	1820.0	Cuttings	X	X	X										
15/12-11S	97009-117	1830.0	1830.0	Cuttings	X	X	X										
15/12-11S	97009-118	1840.0	1840.0	Cuttings	X	X	X										
15/12-11S	97009-119	1850.0	1850.0	Cuttings	X	X	X										
15/12-11S	97009-120	1860.0	1860.0	Cuttings	X	X	X										
15/12-11S	97009-121	1870.0	1870.0	Cuttings	X	X	X										
15/12-11S	97009-122	1880.0	1880.0	Cuttings	X	X	X										
15/12-11S	97009-123	1900.0	1900.0	Cuttings	X	X	X										
15/12-11S	97009-124	1910.0	1910.0	Cuttings	X	X	X										
15/12-11S	97009-125	1920.0	1920.0	Cuttings	X	X	X										
15/12-11S	97009-126	1930.0	1930.0	Cuttings	X	X	X										
15/12-11S	97009-127	1940.0	1940.0	Cuttings	X	X	X										
15/12-11S	97009-128	1950.0	1950.0	Cuttings	X	X	X										
15/12-11S	97009-129	1960.0	1960.0	Cuttings	X	X	X										
15/12-11S	97009-130	1970.0	1970.0	Cuttings	X	X	X										
15/12-11S	97009-131	1980.0	1980.0	Cuttings	X	X	X										
15/12-11S	97009-132	1990.0	1990.0	Cuttings	X	X	X										
15/12-11S	97009-133	2000.0	2000.0	Cuttings	X	X	X										
15/12-11S	97009-134	2010.0	2010.0	Cuttings	X	X	X										
15/12-11S	97009-135	2020.0	2020.0	Cuttings	X	X	X										
15/12-11S	97009-136	2030.0	2030.0	Cuttings	X	X	X										
15/12-11S	97009-137	2040.0	2040.0	Cuttings	X	X	X										
15/12-11S	97009-138	2050.0	2050.0	Cuttings	X	X	X										
15/12-11S	97009-139	2060.0	2060.0	Cuttings	X	X	X										
15/12-11S	97009-140	2070.0	2070.0	Cuttings	X	X	X										
15/12-11S	97009-141	2080.0	2080.0	Cuttings	X	X	X										
15/12-11S	97009-142	2090.0	2090.0	Cuttings	X	X	X										
15/12-11S	97009-143	2100.0	2100.0	Cuttings	X	X	X										
15/12-11S	97009-144	2110.0	2110.0	Cuttings	X	X	X										
15/12-11S	97009-145	2120.0	2120.0	Cuttings	X	X	X										
15/12-11S	97009-146	2130.0	2130.0	Cuttings	X	X	X										
15/12-11S	97009-147	2140.0	2140.0	Cuttings	X	X	X										
15/12-11S	97009-148	2150.0	2150.0	Cuttings	X	X	X										
15/12-11S	97009-149	2160.0	2160.0	Cuttings	X	X	X										
15/12-11S	97009-150	2170.0	2170.0	Cuttings	X	X	X										

ANALYTICAL PROGRAM (Table 2)

Well	Sample Name	Upper Depth	Lower Depth	Sample Type	Headspace gas analysis	Occcluded gas analysis	Gas isotope analysis	Lithology descriptions	TOC	RockEvalPyrolysis	Pyrolysis GC	Solvent Extraction	Asphaltenes content	MPLC	Saturate GC	Aromatic GC	Saturate GC/MS
15/12-11S	97009-151	2180.0	2180.0	Cuttings	X	X		X									
15/12-11S	97009-152	2190.0	2190.0	Cuttings	X	X		X									
15/12-11S	97009-153	2200.0	2200.0	Cuttings	X	X		X									
15/12-11S	97009-154	2210.0	2210.0	Cuttings	X	X		X									
15/12-11S	97009-155	2220.0	2220.0	Cuttings	X	X		X									
15/12-11S	97009-156	2230.0	2230.0	Cuttings	X	X		X									
15/12-11S	97009-157	2240.0	2240.0	Cuttings	X	X		X									
15/12-11S	97009-158	2250.0	2250.0	Cuttings	X	X		X									
15/12-11S	97009-159	2260.0	2260.0	Cuttings	X	X		X									
15/12-11S	97009-160	2270.0	2270.0	Cuttings	X	X		X									
15/12-11S	97009-161	2280.0	2280.0	Cuttings	X	X	X	X									
15/12-11S	97009-162	2290.0	2290.0	Cuttings	X	X		X									
15/12-11S	97009-163	2300.0	2300.0	Cuttings	X	X		X									
15/12-11S	97009-164	2310.0	2310.0	Cuttings	X	X		X									
15/12-11S	97009-165	2320.0	2320.0	Cuttings	X	X		X									
15/12-11S	97009-166	2330.0	2330.0	Cuttings	X	X		X									
15/12-11S	97009-167	2340.0	2340.0	Cuttings	X	X		X									
15/12-11S	97009-168	2350.0	2350.0	Cuttings	X	X		X									
15/12-11S	97009-169	2360.0	2360.0	Cuttings	X	X		X									
15/12-11S	97009-170	2370.0	2370.0	Cuttings	X	X		X									
15/12-11S	97009-171	2380.0	2380.0	Cuttings	X	X		X									
15/12-11S	97009-172	2390.0	2390.0	Cuttings	X	X		X									
15/12-11S	97009-173	2400.0	2400.0	Cuttings	X	X		X									
15/12-11S	97009-174	2410.0	2410.0	Cuttings	X	X		X									
15/12-11S	97009-175	2430.0	2430.0	Cuttings	X	X		X									
15/12-11S	97009-176	2440.0	2440.0	Cuttings	X	X		X									
15/12-11S	97009-177	2450.0	2450.0	Cuttings	X	X		X									
15/12-11S	97009-178	2470.0	2470.0	Cuttings	X	X		X									
15/12-11S	97009-179	2480.0	2480.0	Cuttings	X	X		X									
15/12-11S	97009-180	2490.0	2490.0	Cuttings	X	X		X									
15/12-11S	97009-181	2500.0	2500.0	Cuttings	X	X		X									
15/12-11S	97009-182	2510.0	2510.0	Cuttings	X	X		X									
15/12-11S	97009-183	2520.0	2520.0	Cuttings	X	X		X									
15/12-11S	97009-184	2530.0	2530.0	Cuttings	X	X		X									
15/12-11S	97009-185	2540.0	2540.0	Cuttings	X	X		X									
15/12-11S	97009-186	2550.0	2550.0	Cuttings	X	X		X									
15/12-11S	97009-186A	2550.0	2550.0	Picked Ctgs					X	X							
15/12-11S	97009-187	2560.0	2560.0	Cuttings	X	X		X									
15/12-11S	97009-187A	2560.0	2560.0	Picked Ctgs					X	X							
15/12-11S	97009-188	2570.0	2570.0	Cuttings	X	X		X									
15/12-11S	97009-188A	2570.0	2570.0	Picked Ctgs					X	X							
15/12-11S	97009-189	2580.0	2580.0	Cuttings	X	X		X									
15/12-11S	97009-189A	2580.0	2580.0	Picked Ctgs					X	X							
15/12-11S	97009-190	2590.0	2590.0	Cuttings	X	X		X									
15/12-11S	97009-190A	2590.0	2590.0	Picked Ctgs					X	X							
15/12-11S	97009-191	2600.0	2600.0	Cuttings	X	X		X									
15/12-11S	97009-191A	2600.0	2600.0	Picked Ctgs					X	X							
15/12-11S	97009-192	2610.0	2610.0	Cuttings	X	X	X	X									
15/12-11S	97009-193	2620.0	2620.0	Cuttings	X	X		X									
15/12-11S	97009-194	2630.0	2630.0	Cuttings	X	X		X									
15/12-11S	97009-195	2640.0	2640.0	Cuttings	X	X		X									
15/12-11S	97009-196	2650.0	2650.0	Cuttings	X	X		X									
15/12-11S	97009-197	2660.0	2660.0	Cuttings	X	X		X									

ANALYTICAL PROGRAM (Table 2)

Well	Sample Name	Upper Depth	Lower Depth	Sample Type	Headspace gas analysis	Ocluded gas analysis	Gas isotope analysis	Lithology descriptions	TOC	RockEvalPyrolysis	Pyrolysis GC Solvent Extraction	Asphaltene content	MPLC	Saturate GC	Aromatic GC	Saturate GC/MS
15/12-11S	97009-198	2670.0	2670.0	Cuttings	X	X		X								
15/12-11S	97009-199	2680.0	2680.0	Cuttings	X	X		X								
15/12-11S	97009-200	2690.0	2690.0	Cuttings	X	X		X								
15/12-11S	97009-201	2700.0	2700.0	Cuttings	X	X	X	X								
15/12-11S	97009-202	2710.0	2710.0	Cuttings	X	X		X								
15/12-11S	97009-203	2720.0	2720.0	Cuttings	X	X		X								
15/12-11S	97009-204	2730.0	2730.0	Cuttings	X	X		X								
15/12-11S	97009-205	2740.0	2740.0	Cuttings	X	X		X								
15/12-11S	97009-206	2750.0	2750.0	Cuttings	X	X		X								
15/12-11S	97009-207	2760.0	2760.0	Cuttings	X	X		X								
15/12-11S	97009-207A	2760.0	2760.0	Picked Ctgs					X	X						
15/12-11S	97009-207B	2760.0	2760.0	Picked Ctgs							X					
15/12-11S	97009-208	2770.0	2770.0	Cuttings	X	X		X								
15/12-11S	97009-208A	2770.0	2770.0	Picked Ctgs					X	X						
15/12-11S	97009-208B	2770.0	2770.0	Picked Ctgs							X	X	X	X	X	
15/12-11S	97009-209	2780.0	2780.0	Cuttings	X	X		X								
15/12-11S	97009-209A	2780.0	2780.0	Picked Ctgs					X	X						
15/12-11S	97009-209B	2780.0	2780.0	Picked Ctgs							X					
15/12-11S	97009-210	2790.0	2790.0	Cuttings	X	X	X	X								
15/12-11S	97009-210A	2790.0	2790.0	Picked Ctgs							X	X	X	X	X	
15/12-11S	97009-211	2800.0	2800.0	Cuttings	X	X		X								
15/12-11S	97009-211A	2800.0	2800.0	Picked Ctgs							X					
15/12-11S	97009-212	2810.0	2810.0	Cuttings	X	X		X								
15/12-11S	97009-212A	2810.0	2810.0	Picked Ctgs							X	X	X	X	X	
15/12-11S	97009-213	2830.0	2830.0	Cuttings	X	X		X								
15/12-11S	97009-213A	2830.0	2830.0	Picked Ctgs							X	X	X	X	X	
15/12-11S	97009-214	2840.0	2840.0	Cuttings	X	X		X								
15/12-11S	97009-215	2850.0	2850.0	Cuttings	X	X		X								
15/12-11S	97009-216	2860.0	2860.0	Cuttings	X	X		X								
15/12-11S	97009-217	2870.0	2870.0	Cuttings	X	X		X								
15/12-11S	97009-218	2880.0	2880.0	Cuttings	X	X		X								
15/12-11S	97009-219	2890.0	2890.0	Cuttings	X	X		X								
15/12-11S	97009-220	2900.0	2900.0	Cuttings	X	X		X								
15/12-11S	97009-221	2910.0	2910.0	Cuttings	X	X		X								
15/12-11S	97009-222	2920.0	2920.0	Cuttings	X	X		X								
15/12-11S	97009-223	2930.0	2930.0	Cuttings	X	X		X								
15/12-11S	97009-224	2940.0	2940.0	Cuttings	X	X		X								
15/12-11S	97009-225	2950.0	2950.0	Cuttings	X	X		X								
15/12-11S	97009-226	2960.0	2960.0	Cuttings	X	X		X								
15/12-11S	97009-227	2970.0	2970.0	Cuttings	X	X		X								
15/12-11S	97009-228	2980.0	2980.0	Cuttings	X	X		X								
15/12-11S	97009-229	2990.0	2990.0	Cuttings	X	X		X								
15/12-11S	97009-230	3000.0	3000.0	Cuttings	X	X		X								
15/12-11S	97009-231	3010.0	3010.0	Cuttings	X	X		X								
15/12-11S	97009-232	3020.0	3020.0	Cuttings	X	X		X								
15/12-11S	97009-233	3030.0	3030.0	Cuttings	X	X		X								
15/12-11S	97009-234	3040.0	3040.0	Cuttings	X	X		X								
15/12-11S	97009-235	3050.0	3050.0	Cuttings	X	X		X								
15/12-11S	97009-236	3060.0	3060.0	Cuttings	X	X		X								
15/12-11S	97009-237	3070.0	3070.0	Cuttings	X	X		X								
15/12-11S	97009-238	3080.0	3080.0	Cuttings	X	X		X								
15/12-11S	97009-239	3090.0	3090.0	Cuttings	X	X		X								
15/12-11S	97009-240	3100.0	3100.0	Cuttings	X	X		X								

ANALYTICAL PROGRAM (Table 2)

Well	Sample Name	Upper Depth	Lower Depth	Sample Type	Headspace gas analysis	Occluded gas analysis	Gas isotope analysis	Lithology descriptions	TOC	RockEvalPyrolysis	Pyrolysis GC	Solvent Extraction	Asphaltene content	MPLC	Saturate GC	Aromatic GC	Saturate GC/MS
15/12-11S	97009-241	3110.0	3110.0	Cuttings	X	X		X									
15/12-11S	97009-242	3120.0	3120.0	Cuttings	X	X		X									
15/12-11S	97009-243	3130.0	3130.0	Cuttings	X	X		X									
15/12-11S	97009-244	3140.0	3140.0	Cuttings	X	X		X									
15/12-11S	97009-245	3150.0	3150.0	Cuttings	X	X		X									
15/12-11S	97009-246	3160.0	3160.0	Cuttings	X	X		X									
15/12-11S	97009-247	3170.0	3170.0	Cuttings	X	X		X									
15/12-11S	97009-248	3180.0	3180.0	Cuttings	X	X		X									
15/12-11S	97009-249	3190.0	3190.0	Cuttings	X	X		X									
15/12-11S	97009-250	3200.0	3200.0	Cuttings	X	X		X									
15/12-11S	97009-251	3210.0	3210.0	Cuttings	X	X		X									
15/12-11S	97009-252	3220.0	3220.0	Cuttings	X	X		X									
15/12-11S	97009-253	3230.0	3230.0	Cuttings	X	X		X									
15/12-11S	97009-254	3240.0	3240.0	Cuttings	X	X		X									
15/12-11S	97009-255	3249.0	3249.0	Cuttings	X	X		X									
15/12-11S	97009-255A	3249.0	3249.0	Picked Ctgs					X	X	X	X		X	X		X
15/12-11S	97009-255B	3249.0	3249.0	Picked Ctgs					X	X	X	X		X	X		X
15/12-11S	97009-256	3258.0	3258.0	Cuttings	X	X	X	X									
15/12-11S	97009-256A	3258.0	3258.0	Picked Ctgs					X	X							
15/12-11S	97009-256B	3258.0	3258.0	Picked Ctgs					X	X	X	X		X	X		X
15/12-11S	97009-257	3276.0	3276.0	Cuttings	X	X		X									
15/12-11S	97009-258	3285.0	3285.0	Cuttings	X	X		X									
15/12-11S	97009-259	3294.0	3294.0	Cuttings	X	X		X									
15/12-11S	97009-260	3303.0	3303.0	Cuttings	X	X		X									
15/12-11S	97009-260A	3303.0	3303.0	Picked Ctgs					X	X							
15/12-11S	97009-260B	3303.0	3303.0	Picked Ctgs					X	X							
15/12-11S	97009-261	3312.0	3312.0	Cuttings	X	X	X	X									
15/12-11S	97009-261A	3312.0	3312.0	Picked Ctgs					X	X							
15/12-11S	97009-261B	3312.0	3312.0	Picked Ctgs					X	X	X	X		X	X		X
15/12-11S	97009-262	3321.0	3321.0	Cuttings	X	X	X	X									
15/12-11S	97009-262A	3321.0	3321.0	Picked Ctgs					X	X							
15/12-11S	97009-262B	3321.0	3321.0	Picked Ctgs					X	X	X	X		X	X		X
15/12-11S	97009-263	3330.0	3330.0	Cuttings	X	X		X									
15/12-11S	97009-263A	3330.0	3330.0	Picked Ctgs					X	X							
15/12-11S	97009-263B	3330.0	3330.0	Picked Ctgs					X	X							
15/12-11S	97009-264	3339.0	3339.0	Cuttings	X	X		X									
15/12-11S	97009-264A	3339.0	3339.0	Picked Ctgs					X	X							
15/12-11S	97009-264B	3339.0	3339.0	Picked Ctgs					X	X							
15/12-11S	97009-265	3348.0	3348.0	Cuttings	X	X		X									
15/12-11S	97009-265A	3348.0	3348.0	Picked Ctgs					X	X							
15/12-11S	97009-265B	3348.0	3348.0	Picked Ctgs					X	X							
15/12-11S	97009-266	3357.0	3357.0	Cuttings	X	X		X									
15/12-11S	97009-266A	3357.0	3357.0	Picked Ctgs					X	X							
15/12-11S	97009-266B	3357.0	3357.0	Picked Ctgs					X	X	X	X		X	X		X
15/12-11S	97009-267	3366.0	3366.0	Cuttings	X	X		X									
15/12-11S	97009-267A	3366.0	3366.0	Picked Ctgs					X	X							
15/12-11S	97009-267B	3366.0	3366.0	Picked Ctgs					X	X							
15/12-11S	97009-268	3375.0	3375.0	Cuttings	X	X		X									
15/12-11S	97009-268A	3375.0	3375.0	Picked Ctgs					X	X							
15/12-11S	97009-269	3384.0	3384.0	Cuttings	X	X	X	X									
15/12-11S	97009-269A	3384.0	3384.0	Picked Ctgs					X	X							
15/12-11S	97009-269B	3384.0	3384.0	Picked Ctgs					X	X							
15/12-11S	97009-270	3393.0	3393.0	Cuttings	X	X		X									