

Well: 35/12-1

Date	Hole size	Hole depth	Mud weight	PV	YP	Gel strength	pH	Alkalinity Pf /Mf	Ca++ mg/1	Cl- mg/1	Sand %	Solids %	Mudtype
920220	PSPUD					/		/					SPUD MUD
920221	PSPUD					/		/					SPUD MUD
920222	PSPUD					/		/					SPUD MUD
920223	PSPUD					/		/					SPUD MUD
920224	PSPUD					/		/					SPUD MUD
920225	PSPUD					/		/					SPUD MUD
920227	36"	385.0	1.04			/	10.0	/					SPUD MUD
920228	17 1/2"	419.0	1.04			/	10.0	/				3.0	SPUD MUD
920229	36"	440.0	1.04			/	10.0	/				3.0	SPUD MUD
920301	36"	440.0	1.04			/	10.1	/				3.0	SPUD MUD
920302	36"	486.0	1.04			/	10.1	/				3.0	SPUD MUD
920303	36"	486.0	1.04			/		/					SPUD MUD
920304	36"	486.0	1.03			/	10.0	/				3.0	GEL MUD
920305	17 1/2"	856.0	1.11	6.0	38.0	21/25	8.5	/		11000	1.0	6.0	GEL MUD
920306	17 1/2"	1015.0	1.14	7.0	52.0	24/30	9.0	/		15000	1.0	8.0	GEL MUD
920307	17 1/2"	1015.0	1.13	8.0	58.0	27/28	8.6	/		18000	.5	7.0	GEL MUD
920308	17 1/2"	1020.0	1.18	11.0	48.0	25/28	8.7	/		18000	.5	9.0	GEL MUD
920309	26"	1020.0	1.18	10.0	50.0	25/28	8.7	/		18000	.5	9.0	GEL MUD
920310	26"	1020.0	1.18	10.0	30.0	20/28	8.9	/		8000	.5	7.0	GEL MUD
920311	26"	1020.0	1.20	22.0	13.0	2/2	8.2	/.9	160	62000		7.0	GEL MUD
920312	26"	1020.0	1.20	21.0	15.0	3/3	8.2	/.7	160	66000		7.0	GEL MUD
920313	26"	1020.0	1.20	21.0	15.0	3/3	8.2	/.7	160	66000		7.0	GEL MUD
920314	26"	1020.0	1.20	21.0	15.0	3/3	8.2	/.7	160	66000		7.0	GEL MUD
920315	26"	1020.0	1.20	21.0	15.0	3/3	8.2	/.7	160	66000		7.0	KCL MUD
920316	26"	1020.0	1.20	21.0	15.0	3/3	8.2	/.7	160	66000		7.0	KCL MUD
920317	26"	1020.0	1.20	21.0	15.0	3/3	8.2	/.7	160	66000		7.0	KCL MUD
920318	17 1/2"	1035.0	1.19	21.0	25.0	3/4	9.0	.2/1.4	480	63000		7.0	KCL MUD

Well: 35/12-1

Date	Hole size	Hole depth	Mud weight	PV	YP	Gel strength	pH	Alkalinity Pf /Mf	Ca++ mg/l	Cl- mg/l	Sand %	Solids %	Mudtype
920319	17 1/2"	1280.0	1.30	28.0	27.0	3/4	8.7	.1/1.8	640	61000		13.0	KCL MUD
920320	17 1/2"	1439.0	1.30	29.0	23.0	3/4	8.3	/2.4	600	53000		13.0	KCL MUD
920321	17 1/2"	1487.0	1.30	28.0	22.0	3/4	8.8	.1/2.4	480	53000		13.0	KCL MUD
920322	17 1/2"	1600.0	1.30	27.0	18.0	2/4	8.3	/2.2	400	52000	.3	13.0	KCL MUD
920323	17 1/2"	1600.0	1.30	27.0	20.0	2/4	8.2	/2.3	440	52000		13.0	KCL MUD
920324	17 1/2"	1693.0	1.30	26.0	17.0	2/5	7.9	/1.2	500	56000	.3	13.0	KCL MUD
920325	17 1/2"	1769.0	1.30	28.0	22.0	3/7	8.3	/1.2	1040	57000	.3	14.0	KCL MUD
920326	17 1/2"	1827.0	1.30	27.0	21.0	2/6	8.2	/1.2	480	57000	.3	14.0	KCL MUD
920327	17 1/2"	1899.0	1.30	28.0	27.0	2/6	8.1	/1.0	440	64000		14.0	KCL MUD
920328	17 1/2"	1959.0	1.30	28.0	20.0	2/6	8.3	/.8	360	66000		14.0	KCL MUD
920329	17 1/2"	2046.0	1.28	27.0	18.0	2/5	8.0	/.5	360	66000		13.0	KCL MUD
920330	17 1/2"	2167.0	1.28	30.0	22.0	2/4	7.8	/.8	400	66000		13.0	KCL MUD
920331	17 1/2"	2215.0	1.28	30.0	23.0	2/4	7.8	/.7	360	65000		13.0	KCL MUD
920401	17 1/2"	2215.0	1.28	30.0	21.0	2/5	7.8	/.8	360	65000		13.0	KCL MUD
920402	17 1/2"	2215.0	1.28	30.0	21.0	2/5	7.8	/.7	360	65000		13.0	KCL MUD
920403	17 1/2"	2215.0	1.28	30.0	21.0	2/5	7.8	/.7	360	65000		13.0	KCL MUD
920404	12 1/4"	2251.0	1.32	33.0	12.0	1/3	8.6	.1/1.3	600	67000		14.0	KCL MUD
920405	12 1/4"	2352.0	1.32	30.0	16.0	2/4	8.3	/1.1	500	63000		14.0	KCL MUD
920406	12 1/4"	2418.0	1.32	34.0	13.0	2/7	8.3	/1.0	500	64000	.1	14.0	KCL MUD
920407	12 1/4"	2445.0	1.32	34.0	12.0	2/4	8.3	/1.0	500	64500	.3	14.0	KCL MUD
920408	12 1/4"	2458.0	1.32	39.0	14.0	2/4	8.3	/.9	500	66000	.1	14.0	KCL MUD
920409	12 1/4"	2596.0	1.32	29.0	12.0	2/4	8.3	/1.0	440	62000	.2	14.0	KCL MUD
920410	12 1/4"	2598.0	1.32	28.0	14.0	2/7	8.3	/.8	400	63000	.2	14.0	KCL MUD
920411	12 1/4"	2647.0	1.32	27.0	14.0	2/6	8.3	/.8	440	63000	.2	14.0	KCL MUD
920412	12 1/4"	2700.0	1.32	30.0	15.0	3/8	8.3	/.5	440	63000	.2	14.0	KCL MUD
920413	12 1/4"	2778.0	1.30	32.0	15.0	3/9	8.3	/.8	400	60000	.1	14.0	KCL MUD
920414	12 1/4"	2923.0	1.28	27.0	15.0	2/7	8.0	/.7	440	66000	.1	14.0	KCL MUD

Well: 35/12-1

Date	Hole size	Hole depth	Mud weight	PV	YP	Gel strength	pH	Alkalinity Pf /Mf	Ca++ mg/l	Cl- mg/l	Sand %	Solids %	Mudtype
920415	12 1/4"	2975.0	1.25	27.0	15.0	2/7	8.0	/ .7	440	66000	.1	14.0	KCL MUD
920416	12 1/4"	3001.0	1.25	24.0	15.0	2/7	8.0	/ .6	400	63000	.1	12.0	KCL MUD
920417	12 1/4"	3020.0	1.25	26.0	20.0	3/6	7.9	/ .8	400	64000	.3	13.0	KCL MUD
920418	12 1/4"	3020.0	1.25	26.0	20.0	3/7	7.9	/ .8	400	64000	.3	13.0	KCL MUD
920419	12 1/4"	3020.0	1.25	27.0	19.0	3/7	7.8	/ .8	400	64000	.3	13.0	KCL MUD
920420	P&A	3020.0	1.25			/	9.8	/					KCL MUD
920421	P&A	3020.0	1.25			/	10.3	/					KCL MUD
920422	P&A	3020.0	1.25			/	8.8	/					KCL MUD
920423	P&A					/		/					KCL MUD
920424	P&A					/		/					KCL MUD

Well : 35/12-1

Materials	Unit	36" Hole	26" Hole	17 1/2" Hole	12 1/4" Hole	Total
Agipac LV	25 kg	-	-	569	88	657
Agipak Reg.	25 kg	-	-	253	250	503
Barite	MT	47	139	233	64	483
Bentonite	MT	15	22	-	3	40
Caustic Soda	25 kg	12	23	-	1	36
Citric Acid	25 kg	-	-	10	45	55
KCl - brine	bb1	-	-	576	107	683
KCl - sxs	25 kg	-	-	160	90	250
Lime	20 kg	6	-	-	-	6
Mica C/F	25 kg	-	-	66	-	66
Nut Plug F/M/C	25 kg	-	-	78	-	78
Poly Plus	25 kg	-	-	173	38	211
Pot.Bicarbonat	25 kg	-	-	70	42	112
Soda Ash	25 kg	3	5	47	35	90
Sodium Bicarbon	25 kg	-	-	1	-	1
XC-Polymer	25 kg	23	3	13	-	39
Xanthan Gum	25 kg	-	-	14	33	47



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Title:

GEOCHEMICAL DATA FOR SAGA WELL 35/12-1

Prepared For:

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Author's signature
M C Wadsworth

M. Wadsworth

Date.....
16/10/92

General Manager
Mr J McEwan

J McEwan

Date.....
16/10/92



SAMPLE INFORMATION

Client name	Saga Petroleum A.S.
Well name	35/12-1
Location	Norwegian North Sea
Date of receipts	30/3, 6/4, 28/4 & 29/4/92
Dates of analysis	1/5/92 - 13/11/92
Sample type	Cuttings
SL job no	91115
Client P.O. no.	IO-AK-92-00688

SAMPLE HANDLING

Samples were received as wet ditch cuttings in geochemical cans, from the interval 490m to 3018m. The samples were generally in 10m intervals to 2380m and in 9m intervals below. Headspace and occluded gas analysis was performed on 71 samples at approximately 30m intervals to 2000m and every 20m below 2000m. After headspace gas analysis, ten of the strongest samples were collected for gas isotope analysis. However, only five of the samples proved good enough to warrant analysis. The cuttings were then washed, dried and described (OLS method 003). Claystones on the whole were picked from twentyfive samples and these were analysed for organic carbon content (OLS method 001) and by Rock Eval pyrolysis (OLS method 005). Furthermore, six sandstones were also picked for cold ultrasonic extraction and latroscan fraction (Saga method). On the whole this well proved to contain few good sandstone horizons. Finally five samples were selected for advanced analysis. These were all Soxhlet extracted and then analysed by saturate and aromatic GC, GC/MS (Saga method) and curie point pyrolysis GC (OLS method 0022). Finally the fractions were submitted for carbon isotope analysis.

A detailed analytical plan can be found overleaf.

ANALYTICAL PROGRAM

Well	Nation	Sample ID	Upper Depth	Lower Depth	Sample	Headspace G.	Occluded G.	Gas Isotopes	Lithology	TOC	RE Pyrolysis	Introscan	Sats GC	Arom GC	Pyrol GC	Sats GC/MS	Arom GC/MS	C. Isotopes
35/12-1	NOR	91115-1	490.0	490.0	Cuttings	*	*		*									
35/12-1	NOR	91115-2	530.0	530.0	Cuttings	*	*		*									
35/12-1	NOR	91115-3	560.0	560.0	Cuttings	*	*	*	*									
35/12-1	NOR	91115-4	590.0	590.0	Cuttings	*	*		*	*								
35/12-1	NOR	91115-5	620.0	620.0	Cuttings	*	*		*									
35/12-1	NOR	91115-6	650.0	650.0	Cuttings	*	*		*									
35/12-1	NOR	91115-7	680.0	680.0	Cuttings	*	*		*									
35/12-1	NOR	91115-8	710.0	710.0	Cuttings	*	*		*	*								
35/12-1	NOR	91115-9	740.0	740.0	Cuttings	*	*		*									
35/12-1	NOR	91115-10	770.0	770.0	Cuttings	*	*		*									
35/12-1	NOR	91115-11	800.0	800.0	Cuttings	*	*		*	*								
35/12-1	NOR	91115-12	830.0	830.0	Cuttings	*	*		*	*		*	*	*	*	*	*	*
35/12-1	NOR	91115-13	860.0	860.0	Cuttings	*	*		*									
35/12-1	NOR	91115-14	890.0	890.0	Cuttings	*	*		*									
35/12-1	NOR	91115-15	920.0	920.0	Cuttings	*	*		*	*								
35/12-1	NOR	91115-16	950.0	950.0	Cuttings	*	*	*	*		*							
35/12-1	NOR	91115-17	980.0	980.0	Cuttings	*	*	*	*		*							
35/12-1	NOR	91115-18	1010.0	1010.0	Cuttings	*	*	*	*		*							
35/12-1	NOR	91115-19	1040.0	1040.0	Cuttings	*	*		*									
35/12-1	NOR	91115-20	1070.0	1070.0	Cuttings	*	*		*	*								
35/12-1	NOR	91115-21	1100.0	1100.0	Cuttings	*	*		*									
35/12-1	NOR	91115-22	1130.0	1130.0	Cuttings	*	*		*									
35/12-1	NOR	91115-23	1160.0	1160.0	Cuttings	*	*		*									
35/12-1	NOR	91115-24	1190.0	1190.0	Cuttings	*	*		*									
35/12-1	NOR	91115-25	1220.0	1220.0	Cuttings	*	*		*	*								
35/12-1	NOR	91115-26	1250.0	1250.0	Cuttings	*	*		*									
35/12-1	NOR	91115-27	1280.0	1280.0	Cuttings	*	*		*									
35/12-1	NOR	91115-28	1310.0	1310.0	Cuttings	*	*	*	*									
35/12-1	NOR	91115-29	1340.0	1340.0	Cuttings	*	*		*									
35/12-1	NOR	91115-30	1380.0	1380.0	Cuttings	*	*		*	*								
35/12-1	NOR	91115-31	1420.0	1420.0	Cuttings	*	*		*									
35/12-1	NOR	91115-32	1450.0	1450.0	Cuttings	*	*		*									
35/12-1	NOR	91115-33	1480.0	1480.0	Cuttings	*	*		*	*								
35/12-1	NOR	91115-34	1510.0	1510.0	Cuttings	*	*		*									
35/12-1	NOR	91115-35	1550.0	1550.0	Cuttings	*	*		*									
35/12-1	NOR	91115-36	1580.0	1580.0	Cuttings	*	*		*	*								

ANALYTICAL PROGRAM

Well	Nation	Sample ID	Upper Depth	Lower Depth	Sample	Headspace G.	Occluded G.	Gas Isotopes	Lithology	TOC	RE Pyrolysis	Fluorescan	Sals GC	Arom GC	Pyrol. GC	Sals GC/MS	Arom GC/MS	C. Isotopes
35/12-1	NOR	91115-37	1610.0	1610.0	Cuttings	*	*											
35/12-1	NOR	91115-38	1640.0	1640.0	Cuttings	*	*											
35/12-1	NOR	91115-39	1670.0	1670.0	Cuttings	*	*											
35/12-1	NOR	91115-40	1700.0	1700.0	Cuttings	*	*			*	*							
35/12-1	NOR	91115-41	1730.0	1730.0	Cuttings	*	*											
35/12-1	NOR	91115-42	1760.0	1760.0	Cuttings	*	*											
35/12-1	NOR	91115-43	1790.0	1790.0	Cuttings	*	*											
35/12-1	NOR	91115-44	1820.0	1820.0	Cuttings	*	*			*	*							
35/12-1	NOR	91115-45	1850.0	1850.0	Cuttings	*	*											
35/12-1	NOR	91115-46	1880.0	1880.0	Cuttings	*	*											
35/12-1	NOR	91115-47	1910.0	1910.0	Cuttings	*	*			*	*							
35/12-1	NOR	91115-48	1940.0	1940.0	Cuttings	*	*											
35/12-1	NOR	91115-49	1970.0	1970.0	Cuttings	*	*											
35/12-1	NOR	91115-50	2000.0	2000.0	Cuttings	*	*											
35/12-1	NOR	91115-51	2050.0	2050.0	Cuttings	*	*											
35/12-1	NOR	91115-52	2100.0	2100.0	Cuttings	*	*			*	*							
35/12-1	NOR	91115-53	2150.0	2150.0	Cuttings	*	*											
35/12-1	NOR	91115-54	2200.0	2200.0	Cuttings	*	*											
35/12-1	NOR	91115-55	2250.0	2250.0	Cuttings	*	*											
35/12-1	NOR	91115-56	2300.0	2300.0	Cuttings	*	*			*	*	*	*	*	*	*	*	*
35/12-1	NOR	91115-57	2350.0	2350.0	Cuttings	*	*			*	*							
35/12-1	NOR	91115-58	2398.0	2398.0	Cuttings	*	*	*	*	*	*	*	*	*	*	*	*	*
35/12-1	NOR	91115-59	2447.0	2447.0	Cuttings	*	*	*	*									
35/12-1	NOR	91115-60	2502.0	2502.0	Cuttings	*	*											
35/12-1	NOR	91115-61	2554.0	2554.0	Cuttings	*	*	*	*		*							
35/12-1	NOR	91115-62	2598.0	2598.0	Cuttings	*	*		*	*	*	*	*	*	*	*	*	*
35/12-1	NOR	91115-63	2652.0	2652.0	Cuttings	*	*	*	*	*	*	*	*	*	*	*	*	*
35/12-1	NOR	91115-64	2697.0	2697.0	Cuttings	*	*	*	*	*	*							
35/12-1	NOR	91115-65	2751.0	2751.0	Cuttings	*	*		*	*	*							
35/12-1	NOR	91115-66	2796.0	2796.0	Cuttings	*	*		*	*	*							
35/12-1	NOR	91115-67	2850.0	2850.0	Cuttings	*	*		*	*	*							
35/12-1	NOR	91115-68	2895.0	2895.0	Cuttings	*	*		*	*	*							
35/12-1	NOR	91115-69	2949.0	2949.0	Cuttings	*	*		*	*	*							
35/12-1	NOR	91115-70	2994.0	2994.0	Cuttings	*	*		*	*	*							
35/12-1	NOR	91115-71	3018.0	3018.0	Cuttings	*	*	*	*		*							

LITHOLOGY DESCRIPTIONS

Well	Nation	Sample ID	Upper Depth	Lower Depth	Sample	Lithology
35/12-1	NOR	91115-1	490.0	490.0	Cuttings	Sd, lse + 30% Cmt + 10% Lst, wht
35/12-1	NOR	91115-2	530.0	530.0	Cuttings	Sd, lse + 30% Sst, lt gy + 10% Lst, wht
35/12-1	NOR	91115-3	560.0	560.0	Cuttings	Sst, lt gy + 30% Sd, lse + mnr Lst, wht
35/12-1	NOR	91115-4	590.0	590.0	Cuttings	Clyst, olv blk + 20% Sst, lt gy + 20% Sd, lse + 10% Lst, wht
35/12-1	NOR	91115-5	620.0	620.0	Cuttings	Clyst, olv gy, slty + 20% Clyst, med gy + 10% Sd, lse + mnr Clyst, olv blk + mnr Lst, wht + mnr pyr
35/12-1	NOR	91115-6	650.0	650.0	Cuttings	Clyst, olv gy, slty + 10% Sd, lse + mnr Lst, wht + mnr pyr
35/12-1	NOR	91115-7	680.0	680.0	Cuttings	Clyst, olv gy, slty + 10% Sd, lse + mnr Clyst, olv blk + Lst, wht + mnr pyr
35/12-1	NOR	91115-8	710.0	710.0	Cuttings	Clyst, olv gy, slty + mnr Clyst, olv blk + mnr Clyst, dk gy + mnr pyr + mnr cmt
35/12-1	NOR	91115-9	740.0	740.0	Cuttings	Clyst, olv gy, slty + 30% Sd + 10 Sst, lt gy + mnr Clyst, dk grn gy + Lst, lt gy
35/12-1	NOR	91115-10	770.0	770.0	Cuttings	Clyst, olv gy, slty + 20% Sd + 20% Coal/lig ? + mnr Clyst, dk grn gy + mnr pyr
35/12-1	NOR	91115-11	800.0	800.0	Cuttings	Clyst, med gy, slty + 30% Coal/lig ? + 10% Sd, lse + 10% pyr + mnr Clyst, dk grn gy
35/12-1	NOR	91115-12	830.0	830.0	Cuttings	Coal/lig + 30% Clyst, med gy, slty + 10% Sd + tr Lst, wht
35/12-1	NOR	91115-13	860.0	860.0	Cuttings	Clyst, med gy, slty + 40% Coal/lig + 10% Sd + mnr pyr + tr Lst, wht
35/12-1	NOR	91115-14	890.0	890.0	Cuttings	Clyst, med gy, slty + 20% Coal/lig + mnr Sd, + mnr pyr + tr Lst, v lt gy
35/12-1	NOR	91115-15	920.0	920.0	Cuttings	Clyst, med gy, slty + 30% Coal/lig + 10% Sst, lt gy + mnr pyr + tr Lst, v lt gy
35/12-1	NOR	91115-16	950.0	950.0	Cuttings	Sd, lse + 10% Coal/lig
35/12-1	NOR	91115-17	980.0	980.0	Cuttings	Sd, lse + 30% Clyst, olv gy, slty
35/12-1	NOR	91115-18	1010.0	1010.0	Cuttings	Clyst, olv gy, slty + 20% Sd, lse + 10% Sst, lt gy + mnr Coal/lig + mnr Pyr
35/12-1	NOR	91115-19	1040.0	1040.0	Cuttings	Clyst, lt olv gy, slty + 20% Cmt + tr Sd, lse
35/12-1	NOR	91115-20	1070.0	1070.0	Cuttings	Clyst, olv gy, slty + mnr Cmt + mnr Cht
35/12-1	NOR	91115-21	1100.0	1100.0	Cuttings	Clyst, olv gy, slty + 10% Cmt + mnr Pyr + tr Sst, v lt gy + tr Lst, wh
35/12-1	NOR	91115-22	1130.0	1130.0	Cuttings	Clyst, olv gy, slty + mnr Lst, wh
35/12-1	NOR	91115-23	1160.0	1160.0	Cuttings	Clyst, olv gy, slty + mnr Lst, v lt gy
35/12-1	NOR	91115-24	1190.0	1190.0	Cuttings	Clyst, olv gy, slty + mnr Lst, v lt gy

LITHOLOGY DESCRIPTIONS

Well	Nation	Sample ID	Upper Depth	Lower Depth	Sample	Lithology
35/12-1	NOR	91115-25	1220.0	1220.0	Cuttings	Clyst, olv gy, slty + mnr Clyst, med yel brn + tr Lst, lt olv gy
35/12-1	NOR	91115-26	1250.0	1250.0	Cuttings	Clyst, olv gy, slty + mnr Clyst, med pa yel brn, calc + mnr Lst, lt olv gy
35/12-1	NOR	91115-27	1280.0	1280.0	Cuttings	Clyst, olv blk, slty + 20% Clyst, olv gy + mnr Clyst, med pa yel brn, calc + tr Sst, lt gy
35/12-1	NOR	91115-28	1310.0	1310.0	Cuttings	Clyst, olv blk, slty + tr Lst, lt gy
35/12-1	NOR	91115-29	1340.0	1340.0	Cuttings	Clyst, olv gy, slty + 10% Clyst, pa yel brn + mnr Lst, v lt gy
35/12-1	NOR	91115-30	1380.0	1380.0	Cuttings	Clyst, lt olv gy, slty + tr Lst, lt gy
35/12-1	NOR	91115-31	1420.0	1420.0	Cuttings	Clyst, lt olv gy, calc + 10% Clyst, olv gy, calc
35/12-1	NOR	91115-32	1450.0	1450.0	Cuttings	Clyst, med dk gy + 30% Lst, wht + 10% Lst, rd gy + 10% Clyst, lt gy
35/12-1	NOR	91115-33	1480.0	1480.0	Cuttings	Clyst, med dk gy + 20% Clyst, med rd brn, calc + mnr Lst, wht + mnr Sd
35/12-1	NOR	91115-34	1510.0	1510.0	Cuttings	Sst, grn gy + 30% Clyst, med rd brn, calc + 10% Lst, v lt gy, glau
35/12-1	NOR	91115-35	1550.0	1550.0	Cuttings	Clyst, med gy, calc + mnr Lst, yel gy + mnr Clyst, med rd brn, calc + tr Lst, wht + tr Sst, v lt gy, glau
35/12-1	NOR	91115-36	1580.0	1580.0	Cuttings	Clyst, med dk gy, calc + mnr Clyst, med rd brn, calc + mnr Lst, wht
35/12-1	NOR	91115-37	1610.0	1610.0	Cuttings	Clyst, med dk gy, + 20% Lst, lt gy + 10% Sh, v dsky rd
35/12-1	NOR	91115-38	1640.0	1640.0	Cuttings	Clyst, med dk gy, + mnr Lst, lt gy
35/12-1	NOR	91115-39	1670.0	1670.0	Cuttings	Clyst, med dk gy, + mnr Lst, lt olv gy + tr Lst, v lt gy
35/12-1	NOR	91115-40	1700.0	1700.0	Cuttings	Clyst, med dk gy, + mnr Lst, v lt gy
35/12-1	NOR	91115-41	1730.0	1730.0	Cuttings	Clyst, med dk gy, + tr Lst, lt olv gy
35/12-1	NOR	91115-42	1760.0	1760.0	Cuttings	Clyst, med dk gy, calc + 10% Lst, lt olv gy
35/12-1	NOR	91115-43	1790.0	1790.0	Cuttings	Clyst, med dk gy, calc + mnr Clyst, pa yel brn, calc + tr Lst, v lt gy
35/12-1	NOR	91115-44	1820.0	1820.0	Cuttings	Clyst, med dk gy, calc + tr Lst, yel gy
35/12-1	NOR	91115-45	1850.0	1850.0	Cuttings	Clyst, med dk gy, calc + 40% Clyst, med rd brn, calc + 10% Clyst, lt gy, calc
35/12-1	NOR	91115-46	1880.0	1880.0	Cuttings	Clyst, med dk gy, calc + 20% Clyst, med rd brn, calc + 10% Clyst, lt gy, calc
35/12-1	NOR	91115-47	1910.0	1910.0	Cuttings	Clyst, med dk gy, calc + 20% Clyst, med rd brn, calc + tr Lst, lt gy
35/12-1	NOR	91115-48	1940.0	1940.0	Cuttings	Lst, v lt gy + 20% Lst, pa rd + 20% Clyst, med dk gy, calc

LITHOLOGY DESCRIPTIONS

Well	Nation	Sample ID	Upper Depth	Lower Depth	Sample	Lithology
35/12-1	NOR	91115-49	1970.0	1970.0	Cuttings	Lst, v lt gy + 20% Clyst, med dk gy, calc + 20% mic
35/12-1	NOR	91115-50	2000.0	2000.0	Cuttings	Lst, lt-med gy + 30% Lst, lt gy
35/12-1	NOR	91115-51	2050.0	2050.0	Cuttings	Lst, lt-med gy + 10% Lst, v lt gy + mnr Clyst med dk gy
35/12-1	NOR	91115-52	2100.0	2100.0	Cuttings	Lst, lt-med gy + 10% Lst, v lt gy
35/12-1	NOR	91115-53	2150.0	2150.0	Cuttings	Lst, med gy + mnr Lst, v lt gy
35/12-1	NOR	91115-54	2200.0	2200.0	Cuttings	Lst, med gy + mnr Lst, dk gy + tr Lst, lt gy
35/12-1	NOR	91115-55	2250.0	2250.0	Cuttings	Lst, med gy + 20% Cmt + mnr mic
35/12-1	NOR	91115-56	2300.0	2300.0	Cuttings	Clyst, dk gy, calc +mnr Lst, v lt gy
35/12-1	NOR	91115-57	2350.0	2350.0	Cuttings	Lst, lt gy + 30% Clyst, dk gy, calc + 10% Lst, v lt gy + mnr Clyst, rd gy
35/12-1	NOR	91115-58	2398.0	2398.0	Cuttings	Clyst, gy blk + 30% Clyst, olv gy, calc + tr Lst, v lt gy
35/12-1	NOR	91115-59	2447.0	2447.0	Cuttings	Clyst, olv gy, calc + 40% Clyst, gy blk + mnr Lst, v lt gy
35/12-1	NOR	91115-60	2502.0	2502.0	Cuttings	Clyst, olv gy, slty + 20% Sst, v lt gy + 10% Clyst, dk gy
35/12-1	NOR	91115-61	2554.0	2554.0	Cuttings	Clyst, olv gy, slty + 10% Sst, v lt gy + 10% Clyst, dk gy
35/12-1	NOR	91115-62	2598.0	2598.0	Cuttings	Clyst, dk gy + 30% Clyst, olv gy + 10% Sst, v lt gy + 10% mic
35/12-1	NOR	91115-63	2652.0	2652.0	Cuttings	Sst, med gy, calc + 20% Clyst, med gy + 10% Sh, gy blk + mnr Lst, v lt gy
35/12-1	NOR	91115-64	2697.0	2697.0	Cuttings	Clyst, med gy, sdy + 10% Clyst, gy blk + mnr Clyst, v lt gy
35/12-1	NOR	91115-65	2751.0	2751.0	Cuttings	Clyst, med gy, sdy + 10% Clyst, gy blk + 10% Clyst, v lt gy
35/12-1	NOR	91115-66	2796.0	2796.0	Cuttings	Clyst, med gy, calc + 20% Lst, v lt gy + 10% Sh, gy blk
35/12-1	NOR	91115-67	2850.0	2850.0	Cuttings	Clyst, med gy, calc + 30% Clyst, v lt gy + 20% Sh, gy blk
35/12-1	NOR	91115-68	2895.0	2895.0	Cuttings	Clyst, med gy, calc + 30% Clyst, v lt gy + 10% Sh, gy blk
35/12-1	NOR	91115-69	2949.0	2949.0	Cuttings	Clyst, med gy, calc + 30% Clyst, v lt gy + 10% Clyst, dk gy
35/12-1	NOR	91115-70	2994.0	2994.0	Cuttings	Clyst, med dk gy + 20% Clyst, dk gy + 10% Clyst, lt gy, sdy
35/12-1	NOR	91115-71	3018.0	3018.0	Cuttings	Clyst, olv gy + 10% Clyst, dk gy + 10% Clyst, lt gy, sdy

TOC & ROCK EVAL PYROLYSIS DATA

Well	Nation	Sample ID	Upper Depth	Lower Depth	Sample	Lith	S1 mg/g	S2 mg/g	S3 mg/g	Tmax deg C	TOC Wt %	HI	OI	PI	PP mg/g
35/12-1	NOR	91115-4	590.0	590.0	Cuttings	Clyst	0.00	0.01	0.26	*	0.20	5	130	0.00	0.01
35/12-1	NOR	91115-8	710.0	710.0	Cuttings	Clyst	0.01	0.13	0.27	415	0.63	21	43	0.07	0.14
35/12-1	NOR	91115-11	800.0	800.0	Cuttings	Clyst	0.02	0.25	0.47	417	0.94	27	50	0.07	0.27
35/12-1	NOR	91115-12	830.0	830.0	Cuttings	Coal	4.08	38.57	13.67	392	51.60	75	26	0.10	42.65
35/12-1	NOR	91115-15	920.0	920.0	Cuttings	Clyst	0.02	0.05	0.15	*	0.52	10	29	0.29	0.07
35/12-1	NOR	91115-20	1070.0	1070.0	Cuttings	Clyst	0.05	0.13	1.60	411	0.72	18	222	0.28	0.18
35/12-1	NOR	91115-25	1220.0	1220.0	Cuttings	Clyst	0.04	0.31	1.10	425	0.93	33	118	0.11	0.35
35/12-1	NOR	91115-30	1380.0	1380.0	Cuttings	Clyst	0.03	0.22	1.63	422	0.90	24	181	0.12	0.25
35/12-1	NOR	91115-33	1480.0	1480.0	Cuttings	Clyst	0.04	0.19	1.25	422	0.67	28	187	0.17	0.23
35/12-1	NOR	91115-36	1580.0	1580.0	Cuttings	Clyst	0.02	0.11	1.31	*	0.58	19	226	0.15	0.13
35/12-1	NOR	91115-40	1700.0	1700.0	Cuttings	Clyst	0.02	0.10	1.18	421	0.63	16	187	0.17	0.12
35/12-1	NOR	91115-44	1820.0	1820.0	Cuttings	Clyst	0.03	0.38	1.08	416	0.91	42	119	0.07	0.41
35/12-1	NOR	91115-47	1910.0	1910.0	Cuttings	Clyst	0.01	0.05	0.98	426	0.52	10	188	0.17	0.06
35/12-1	NOR	91115-52	2100.0	2100.0	Cuttings	Lst	0.02	0.17	1.07	427	0.62	27	173	0.11	0.19
35/12-1	NOR	91115-56	2300.0	2300.0	Cuttings	Clyst	0.10	0.24	1.75	428	1.17	21	150	0.29	0.34
35/12-1	NOR	91115-58	2398.0	2398.0	Cuttings	Clyst	0.29	6.71	0.85	432	2.74	245	31	0.04	7.00
35/12-1	NOR	91115-62	2598.0	2598.0	Cuttings	Clyst	0.20	6.53	0.48	433	2.44	268	20	0.03	6.73
35/12-1	NOR	91115-63	2652.0	2652.0	Cuttings	Clyst	0.28	1.21	1.52	433	1.13	107	135	0.19	1.49
35/12-1	NOR	91115-64	2697.0	2697.0	Cuttings	Clyst	0.14	0.60	0.79	433	0.57	105	139	0.19	0.74
35/12-1	NOR	91115-65	2751.0	2751.0	Cuttings	Clyst	0.09	0.25	1.38	429	0.39	64	354	0.26	0.34
35/12-1	NOR	91115-66	2796.0	2796.0	Cuttings	Clyst	0.04	0.11	1.04	*	0.31	35	335	0.27	0.15
35/12-1	NOR	91115-67	2850.0	2850.0	Cuttings	Clyst	0.07	0.14	0.70	*	0.32	44	219	0.33	0.21
35/12-1	NOR	91115-68	2895.0	2895.0	Cuttings	Clyst	0.05	0.09	0.78	*	0.35	26	223	0.36	0.14
35/12-1	NOR	91115-69	2949.0	2949.0	Cuttings	Clyst	0.06	0.11	1.03	*	0.37	30	278	0.35	0.17
35/12-1	NOR	91115-70	2994.0	2994.0	Cuttings	Clyst	0.12	0.47	2.26	433	0.63	75	359	0.20	0.59

HEADSPACE GAS ANALYSIS

Well	Nation	Sample ID	Upper Depth	Lower Depth	Sample	C1 uL/Kg	C2 uL/Kg	C3 uL/Kg	IC4 uL/Kg	nC4 uL/Kg	C5+ uL/Kg	Total uL/Kg	SUM C1-C4	SUM C2-C4	Wetness %	IC4 nC4
35/12-1	NOR	91115-1	490.0	490.0	Cuttings	131.2	0.0	0.0	0.0	0.0	0.3	132	131.2	0.0	0.0	
35/12-1	NOR	91115-2	530.0	530.0	Cuttings	7167.5	5.8	1.7	0.7	1.4	11.9	7189	7177.1	9.6	0.1	0.50
35/12-1	NOR	91115-3	560.0	560.0	Cuttings	34080.1	0.0	3.1	0.0	0.0	3.9	34087	34083.2	3.1	0.0	
35/12-1	NOR	91115-4	590.0	590.0	Cuttings	1511.1	1.5	0.6	0.2	0.6	2.1	1516	1514.0	2.9	0.2	0.33
35/12-1	NOR	91115-5	620.0	620.0	Cuttings	1506.0	1.6	0.7	0.0	0.3	1.0	1510	1508.6	2.6	0.2	0.00
35/12-1	NOR	91115-6	650.0	650.0	Cuttings	592.6	1.0	0.6	0.0	0.0	3.9	598	594.2	1.6	0.3	
35/12-1	NOR	91115-7	680.0	680.0	Cuttings	1157.2	2.4	0.9	0.2	0.0	0.9	1162	1160.7	3.5	0.3	
35/12-1	NOR	91115-8	710.0	710.0	Cuttings	1091.0	1.5	1.2	0.0	0.0	5.2	1099	1093.7	2.7	0.2	
35/12-1	NOR	91115-9	740.0	740.0	Cuttings	173.3	1.5	0.6	0.1	0.4	1.0	177	175.9	2.6	1.5	0.25
35/12-1	NOR	91115-10	770.0	770.0	Cuttings	167.5	1.8	0.9	0.1	0.4	2.6	173	170.7	3.2	1.9	0.25
35/12-1	NOR	91115-11	800.0	800.0	Cuttings	222.0	2.4	0.7	0.0	0.0	0.4	226	225.1	3.1	1.4	
35/12-1	NOR	91115-12	830.0	830.0	Cuttings	112.7	2.7	0.9	0.0	0.0	4.4	121	116.3	3.6	3.1	
35/12-1	NOR	91115-13	860.0	860.0	Cuttings	55.0	0.4	0.3	0.0	0.0	0.4	56	55.7	0.7	1.3	
35/12-1	NOR	91115-14	890.0	890.0	Cuttings	101.6	7.1	2.6	0.8	1.6	5.8	120	113.7	12.1	10.6	0.50
35/12-1	NOR	91115-15	920.0	920.0	Cuttings	72.3	4.4	1.5	0.2	0.5	0.2	79	78.9	6.6	8.4	0.40
35/12-1	NOR	91115-16	950.0	950.0	Cuttings	25.2	1.7	0.7	0.1	0.3	0.8	29	28.0	2.8	10.0	0.33
35/12-1	NOR	91115-17	980.0	980.0	Cuttings	19.5	1.6	0.6	0.0	0.1	0.1	22	21.8	2.3	10.6	0.00
35/12-1	NOR	91115-18	1010.0	1010.0	Cuttings	39.7	3.0	1.3	0.1	0.4	0.7	45	44.5	4.8	10.8	0.25
35/12-1	NOR	91115-19	1040.0	1040.0	Cuttings	42.2	1.8	1.8	0.1	0.7	0.8	47	46.6	4.4	9.4	0.14
35/12-1	NOR	91115-20	1070.0	1070.0	Cuttings	6.8	2.0	1.0	0.0	0.3	1.6	12	10.1	3.3	32.7	0.00
35/12-1	NOR	91115-21	1100.0	1100.0	Cuttings	138.4	7.2	2.5	0.0	0.6	1.9	151	148.7	10.3	6.9	0.00
35/12-1	NOR	91115-22	1130.0	1130.0	Cuttings	12.3	3.0	1.8	0.0	0.0	4.2	21	17.1	4.8	28.1	
35/12-1	NOR	91115-23	1160.0	1160.0	Cuttings	15.2	6.8	1.7	0.0	0.0	1.0	25	23.7	8.5	35.9	
35/12-1	NOR	91115-24	1190.0	1190.0	Cuttings	3.6	1.8	0.4	0.0	0.0	2.1	8	5.8	2.2	37.9	

HEADSPACE GAS ANALYSIS

Well	Nation	Sample ID	Upper Depth	Lower Depth	Sample	C1 uL/Kg	C2 uL/Kg	C3 uL/Kg	IC4 uL/Kg	nC4 uL/Kg	C5+ uL/Kg	Total uL/Kg	SUM C1-C4	SUM C2-C4	Wetness %	IC4 nC4
35/12-1	NOR	91115-25	1220.0	1220.0	Cuttings	14.3	4.5	0.0	0.0	0.0	5.2	24	18.8	4.5	23.9	
35/12-1	NOR	91115-26	1250.0	1250.0	Cuttings	33.1	8.5	1.7	1.2	0.9	3.8	49	45.4	12.3	27.1	1.33
35/12-1	NOR	91115-27	1280.0	1280.0	Cuttings	261.9	33.4	13.3	13.3	10.9	49.1	382	332.8	70.9	21.3	1.22
35/12-1	NOR	91115-28	1310.0	1310.0	Cuttings	2941.9	49.8	41.9	34.2	22.6	81.8	3172	3090.4	148.5	4.8	1.51
35/12-1	NOR	91115-29	1340.0	1340.0	Cuttings	57.3	11.7	2.7	3.5	3.1	37.2	116	78.3	21.0	26.8	1.13
35/12-1	NOR	91115-30	1380.0	1380.0	Cuttings	15.8	2.4	1.1	1.5	1.5	10.4	33	22.3	6.5	29.1	1.00
35/12-1	NOR	91115-31	1420.0	1420.0	Cuttings	16.2	1.7	2.6	1.3	1.3	7.7	31	23.1	6.9	29.9	1.00
35/12-1	NOR	91115-32	1450.0	1450.0	Cuttings	33.0	15.7	5.8	4.1	4.2	14.6	77	62.8	29.8	47.5	0.98
35/12-1	NOR	91115-33	1480.0	1480.0	Cuttings	539.0	74.0	29.2	2.3	7.1	12.3	664	651.6	112.6	17.3	0.32
35/12-1	NOR	91115-34	1510.0	1510.0	Cuttings	275.8	32.5	11.2	0.9	3.6	5.2	329	324.0	48.2	14.9	0.25
35/12-1	NOR	91115-35	1550.0	1550.0	Cuttings	178.3	10.8	4.7	1.4	1.8	5.5	203	197.0	18.7	9.5	0.78
35/12-1	NOR	91115-36	1580.0	1580.0	Cuttings	181.6	15.9	9.2	6.7	7.2	27.4	248	220.6	39.0	17.7	0.93
35/12-1	NOR	91115-37	1610.0	1610.0	Cuttings	45.8	1.9	2.1	1.6	1.5	5.5	58	52.9	7.1	13.4	1.07
35/12-1	NOR	91115-38	1640.0	1640.0	Cuttings	136.5	18.4	12.5	4.1	6.0	13.4	191	177.5	41.0	23.1	0.68
35/12-1	NOR	91115-39	1670.0	1670.0	Cuttings	238.0	20.6	19.7	7.1	8.6	11.0	305	294.0	56.0	19.0	0.83
35/12-1	NOR	91115-40	1700.0	1700.0	Cuttings	44.6	4.7	3.7	1.3	1.9	3.5	60	56.2	11.6	20.6	0.68
35/12-1	NOR	91115-41	1730.0	1730.0	Cuttings	115.2	10.9	9.8	3.1	3.0	3.6	146	142.0	26.8	18.9	1.03
35/12-1	NOR	91115-42	1760.0	1760.0	Cuttings	292.5	44.1	25.6	7.9	9.3	14.3	394	379.4	86.9	22.9	0.85
35/12-1	NOR	91115-43	1790.0	1790.0	Cuttings	25.1	4.0	3.5	2.1	2.1	5.5	42	36.8	11.7	31.8	1.00
35/12-1	NOR	91115-44	1820.0	1820.0	Cuttings	610.7	120.6	58.9	12.1	14.1	18.1	835	816.4	205.7	25.2	0.86
35/12-1	NOR	91115-45	1850.0	1850.0	Cuttings	125.1	12.9	15.2	3.7	3.9	11.8	173	160.8	35.7	22.2	0.95
35/12-1	NOR	91115-46	1880.0	1880.0	Cuttings	218.2	11.5	9.8	3.3	3.1	11.2	257	245.9	27.7	11.3	1.06
35/12-1	NOR	91115-47	1910.0	1910.0	Cuttings	91.7	7.8	5.8	2.2	2.1	5.0	115	109.6	17.9	16.3	1.05
35/12-1	NOR	91115-48	1940.0	1940.0	Cuttings	71.9	19.5	8.1	1.7	2.9	5.1	109	104.1	32.2	30.9	0.59

HEADSPACE GAS ANALYSIS

Well	Nation	Sample ID	Upper Depth	Lower Depth	Sample	C1 uL/Kg	C2 uL/Kg	C3 uL/Kg	IC4 uL/Kg	nC4 uL/Kg	C5+ uL/Kg	Total uL/Kg	SUM C1-C4	SUM C2-C4	Wetness %	IC4 nC4
35/12-1	NOR	91115-49	1970.0	1970.0	Cuttings	186.9	10.3	6.4	2.9	2.9	9.7	219	209.4	22.5	10.7	1.00
35/12-1	NOR	91115-50	2000.0	2000.0	Cuttings	158.4	17.9	21.5	14.7	9.9	10.7	233	222.4	64.0	28.8	1.48
35/12-1	NOR	91115-51	2050.0	2050.0	Cuttings	259.9	31.5	30.0	11.0	9.8	7.9	350	342.2	82.3	24.1	1.12
35/12-1	NOR	91115-52	2100.0	2100.0	Cuttings	207.4	32.0	30.8	16.0	16.1	23.0	325	302.3	94.9	31.4	0.99
35/12-1	NOR	91115-53	2150.0	2150.0	Cuttings	243.6	27.8	31.8	13.0	11.8	10.5	339	328.0	84.4	25.7	1.10
35/12-1	NOR	91115-54	2200.0	2200.0	Cuttings	127.0	18.5	19.7	8.6	10.1	9.6	194	183.9	56.9	30.9	0.85
35/12-1	NOR	91115-55	2250.0	2250.0	Cuttings	140.5	21.9	17.9	5.3	4.6	2.7	193	190.2	49.7	26.1	1.15
35/12-1	NOR	91115-56	2300.0	2300.0	Cuttings	1474.3	130.0	52.6	6.2	4.9	6.5	1675	1668.0	193.7	11.6	1.27
35/12-1	NOR	91115-57	2350.0	2350.0	Cuttings	241.8	42.6	46.1	12.7	11.0	5.7	360	354.2	112.4	31.7	1.15
35/12-1	NOR	91115-58	2398.0	2398.0	Cuttings	2026.3	199.7	148.4	29.4	24.1	31.6	2460	2427.9	401.6	16.5	1.22
35/12-1	NOR	91115-59	2447.0	2447.0	Cuttings	2706.7	664.0	865.4	273.9	199.5	224.9	4934	4709.5	2002.8	42.5	1.37
35/12-1	NOR	91115-60	2502.0	2502.0	Cuttings	14497.1	2659.2	1899.4	247.8	254.4	209.4	19767	19557.9	5060.8	25.9	0.97
35/12-1	NOR	91115-61	2554.0	2554.0	Cuttings	2307.2	386.0	364.8	37.7	47.8	17.2	3161	3143.5	836.3	26.6	0.79
35/12-1	NOR	91115-62	2598.0	2598.0	Cuttings	1981.8	272.7	296.8	48.7	81.0	76.0	2757	2681.0	699.2	26.1	0.60
35/12-1	NOR	91115-63	2652.0	2652.0	Cuttings	1672.1	310.7	450.9	73.0	138.6	97.9	2743	2645.3	973.2	36.8	0.53
35/12-1	NOR	91115-64	2697.0	2697.0	Cuttings	2327.4	321.0	431.3	66.0	115.9	83.4	3345	3261.6	934.2	28.6	0.57
35/12-1	NOR	91115-65	2751.0	2751.0	Cuttings	599.4	82.4	131.6	26.4	57.5	68.3	966	897.3	297.9	33.2	0.46
35/12-1	NOR	91115-66	2796.0	2796.0	Cuttings	562.6	72.6	110.7	19.8	47.2	51.8	865	812.9	250.3	30.8	0.42
35/12-1	NOR	91115-67	2850.0	2850.0	Cuttings	3881.6	346.7	270.7	28.8	63.7	33.6	4625	4591.5	709.9	15.5	0.45
35/12-1	NOR	91115-68	2895.0	2895.0	Cuttings	1351.0	144.0	185.2	24.7	64.6	52.4	1822	1769.5	418.5	23.7	0.38
35/12-1	NOR	91115-69	2949.0	2949.0	Cuttings	932.4	152.8	191.4	23.2	54.4	47.0	1401	1354.2	421.8	31.1	0.43
35/12-1	NOR	91115-70	2994.0	2994.0	Cuttings	379.2	78.1	105.0	15.0	32.4	72.3	682	609.7	230.5	37.8	0.46
35/12-1	NOR	91115-71	3018.0	3018.0	Cuttings	9658.0	2799.3	3497.5	415.7	902.4	600.4	17873	17272.9	7614.9	44.1	0.46

OCCLUDED GAS ANALYSIS

Well	Nation	Sample ID	Upper Depth	Lower Depth	Sample	C1 uL/Kg	C2 uL/Kg	C3 uL/Kg	IC4 uL/Kg	nC4 uL/Kg	C5+ uL/Kg	Total uL/Kg	SUM C1-C4	SUM C2-C4	Wetness %	IC4 nC4
35/12-1	NOR	91115-1	490.0	490.0	Cuttings	1411.1	44.3	27.1	9.3	18.9	176.8	1687.5	1510.7	99.6	6.6	0.49
35/12-1	NOR	91115-2	530.0	530.0	Cuttings	996.8	108.6	118.5	24.8	81.2	410.8	1740.8	1330.0	333.2	25.0	0.30
35/12-1	NOR	91115-3	560.0	560.0	Cuttings	Not enough sample available										
35/12-1	NOR	91115-4	590.0	590.0	Cuttings	166.4	54.6	40.1	5.1	21.6	95.0	383.0	287.9	121.5	42.2	0.24
35/12-1	NOR	91115-5	620.0	620.0	Cuttings	64.6	23.8	15.4	3.2	5.7	67.9	180.6	112.8	48.1	42.7	0.57
35/12-1	NOR	91115-6	650.0	650.0	Cuttings	122.4	37.2	28.8	1.8	19.8	44.1	254.1	210.0	87.6	41.7	0.09
35/12-1	NOR	91115-7	680.0	680.0	Cuttings	33.9	8.3	4.3	0.7	2.7	13.2	63.0	49.8	15.9	32.0	0.25
35/12-1	NOR	91115-8	710.0	710.0	Cuttings	113.4	44.8	32.5	4.6	18.9	43.8	258.0	214.2	100.8	47.1	0.25
35/12-1	NOR	91115-9	740.0	740.0	Cuttings	125.0	38.7	24.9	4.9	2.6	52.8	249.0	196.2	71.2	36.3	1.87
35/12-1	NOR	91115-10	770.0	770.0	Cuttings	82.9	47.9	27.1	3.0	17.7	155.7	334.3	178.6	95.7	53.6	0.17
35/12-1	NOR	91115-11	800.0	800.0	Cuttings	87.3	46.0	21.8	2.9	15.3	48.9	222.2	173.3	86.0	49.6	0.19
35/12-1	NOR	91115-12	830.0	830.0	Cuttings	171.3	65.0	47.3	4.8	10.5	66.7	365.6	298.9	127.7	42.7	0.46
35/12-1	NOR	91115-13	860.0	860.0	Cuttings	80.2	35.9	22.5	4.6	2.3	36.4	181.9	145.5	65.3	44.9	2.00
35/12-1	NOR	91115-14	890.0	890.0	Cuttings	124.0	40.9	17.9	2.5	3.6	36.1	225.0	188.9	64.9	34.4	0.69
35/12-1	NOR	91115-15	920.0	920.0	Cuttings	116.5	44.5	24.4	4.8	4.5	33.1	227.8	194.7	78.3	40.2	1.07
35/12-1	NOR	91115-16	950.0	950.0	Cuttings	577.1	57.2	32.9	3.8	19.1	40.8	731.0	690.1	113.1	16.4	0.20
35/12-1	NOR	91115-17	980.0	980.0	Cuttings	179.5	28.2	13.4	2.9	2.2	89.6	315.8	226.2	46.6	20.6	1.33
35/12-1	NOR	91115-18	1010.0	1010.0	Cuttings	204.1	47.5	22.0	2.7	19.5	53.1	348.8	295.8	91.7	31.0	0.14
35/12-1	NOR	91115-19	1040.0	1040.0	Cuttings	78.2	32.0	19.6	7.9	18.5	162.6	318.8	156.2	78.0	49.9	0.42
35/12-1	NOR	91115-20	1070.0	1070.0	Cuttings	69.2	28.5	12.2	2.0	3.0	28.5	143.3	114.8	45.6	39.7	0.67
35/12-1	NOR	91115-21	1100.0	1100.0	Cuttings	74.5	34.1	19.1	3.6	13.7	51.1	196.0	144.9	70.4	48.6	0.26
35/12-1	NOR	91115-22	1130.0	1130.0	Cuttings	75.3	21.6	8.0	4.9	4.2	45.9	159.9	114.0	38.7	34.0	1.16
35/12-1	NOR	91115-23	1160.0	1160.0	Cuttings	82.7	28.9	16.2	3.5	11.5	34.8	177.5	142.7	60.0	42.0	0.30
35/12-1	NOR	91115-24	1190.0	1190.0	Cuttings	94.9	48.7	31.2	2.7	17.0	91.5	285.9	194.4	99.6	51.2	0.16

OCCLUDED GAS ANALYSIS

Well	Nation	Sample ID	Upper Depth	Lower Depth	Sample	C1 uL/Kg	C2 uL/Kg	C3 uL/Kg	IC4 uL/Kg	nC4 uL/Kg	C5+ uL/Kg	Total uL/Kg	SUM C1-C4	SUM C2-C4	Wetness %	IC4 nC4
35/12-1	NOR	91115-25	1220.0	1220.0	Cuttings	160.8	77.6	36.5	7.7	24.4	241.4	548.4	307.0	146.2	47.6	0.31
35/12-1	NOR	91115-26	1250.0	1250.0	Cuttings	46.1	30.0	10.1	3.4	2.6	31.7	123.9	92.2	46.1	50.0	1.27
35/12-1	NOR	91115-27	1280.0	1280.0	Cuttings	113.8	24.7	24.4	9.2	21.3	202.6	395.9	193.4	79.6	41.2	0.43
35/12-1	NOR	91115-28	1310.0	1310.0	Cuttings	73.9	30.0	19.6	5.8	13.7	174.7	317.7	143.0	69.1	48.3	0.43
35/12-1	NOR	91115-29	1340.0	1340.0	Cuttings	74.9	27.1	19.2	9.4	10.9	110.1	251.5	141.4	66.5	47.0	0.86
35/12-1	NOR	91115-30	1380.0	1380.0	Cuttings	73.9	32.1	15.5	7.6	5.4	125.6	260.2	134.6	60.7	45.1	1.42
35/12-1	NOR	91115-31	1420.0	1420.0	Cuttings	72.2	8.5	9.5	4.0	2.1	17.2	113.5	96.3	24.1	25.0	1.88
35/12-1	NOR	91115-32	1450.0	1450.0	Cuttings	63.7	22.5	12.1	6.3	11.1	56.1	171.9	115.8	52.0	44.9	0.57
35/12-1	NOR	91115-33	1480.0	1480.0	Cuttings	92.6	32.9	21.6	5.8	19.7	90.2	262.9	172.6	80.0	46.4	0.29
35/12-1	NOR	91115-34	1510.0	1510.0	Cuttings	67.5	32.2	14.6	4.7	14.4	71.6	205.2	133.5	66.0	49.4	0.32
35/12-1	NOR	91115-35	1550.0	1550.0	Cuttings	35.6	30.3	12.6	29.0	14.8	2294.5	2416.7	122.3	86.7	70.9	1.96
35/12-1	NOR	91115-36	1580.0	1580.0	Cuttings	173.4	84.6	37.4	7.7	27.7	757.6	1088.4	330.8	157.4	47.6	0.28
35/12-1	NOR	91115-37	1610.0	1610.0	Cuttings	149.6	51.5	21.6	5.6	14.4	113.9	356.6	242.7	93.0	38.3	0.39
35/12-1	NOR	91115-38	1640.0	1640.0	Cuttings	121.9	50.4	24.3	4.8	7.5	50.7	259.6	208.8	86.9	41.6	0.64
35/12-1	NOR	91115-39	1670.0	1670.0	Cuttings	89.1	33.0	21.8	7.9	17.2	61.8	230.8	169.0	80.0	47.3	0.46
35/12-1	NOR	91115-40	1700.0	1700.0	Cuttings	126.4	76.0	8.3	7.2	7.4	2070.9	2296.1	225.2	98.9	43.9	0.97
35/12-1	NOR	91115-41	1730.0	1730.0	Cuttings	108.2	69.5	31.5	14.6	26.1	1375.5	1625.4	249.9	141.6	56.7	0.56
35/12-1	NOR	91115-42	1760.0	1760.0	Cuttings	116.5	30.5	48.6	26.7	45.0	206.1	473.5	267.4	150.8	56.4	0.59
35/12-1	NOR	91115-43	1790.0	1790.0	Cuttings	165.3	52.8	51.1	26.3	42.2	176.8	514.4	337.6	172.3	51.0	0.62
35/12-1	NOR	91115-44	1820.0	1820.0	Cuttings	103.9	14.3	26.7	17.2	23.2	121.1	306.3	185.2	81.4	43.9	0.74
35/12-1	NOR	91115-45	1850.0	1850.0	Cuttings	59.0	26.7	13.6	4.7	4.5	46.2	154.7	108.5	49.5	45.7	1.04
35/12-1	NOR	91115-46	1880.0	1880.0	Cuttings	47.2	9.1	4.5	1.3	1.9	16.4	80.4	64.0	16.8	26.2	0.67
35/12-1	NOR	91115-47	1910.0	1910.0	Cuttings	56.7	26.3	11.3	5.0	12.8	54.0	166.0	112.0	55.3	49.4	0.39
35/12-1	NOR	91115-48	1940.0	1940.0	Cuttings	63.2	32.8	25.1	5.7	13.0	59.8	199.7	139.9	76.6	54.8	0.44

OCCLUDED GAS ANALYSIS

Well	Nation	Sample ID	Upper Depth	Lower Depth	Sample	C1 uL/Kg	C2 uL/Kg	C3 uL/Kg	IC4 uL/Kg	nC4 uL/Kg	C5+ uL/Kg	Total uL/Kg	SUM C1-C4	SUM C2-C4	Wetness %	IC4 nC4
35/12-1	NOR	91115-25	1220.0	1220.0	Cuttings	160.8	77.6	36.5	7.7	24.4	241.4	548.4	307.0	146.2	47.6	0.31
35/12-1	NOR	91115-26	1250.0	1250.0	Cuttings	46.1	30.0	10.1	3.4	2.6	31.7	123.9	92.2	46.1	50.0	1.27
35/12-1	NOR	91115-27	1280.0	1280.0	Cuttings	113.8	24.7	24.4	9.2	21.3	202.6	395.9	193.4	79.6	41.2	0.43
35/12-1	NOR	91115-28	1310.0	1310.0	Cuttings	73.9	30.0	19.6	5.8	13.7	174.7	317.7	143.0	69.1	48.3	0.43
35/12-1	NOR	91115-29	1340.0	1340.0	Cuttings	74.9	27.1	19.2	9.4	10.9	110.1	251.5	141.4	66.5	47.0	0.86
35/12-1	NOR	91115-30	1380.0	1380.0	Cuttings	73.9	32.1	15.5	7.6	5.4	125.6	260.2	134.6	60.7	45.1	1.42
35/12-1	NOR	91115-31	1420.0	1420.0	Cuttings	72.2	8.5	9.5	4.0	2.1	17.2	113.5	96.3	24.1	25.0	1.88
35/12-1	NOR	91115-32	1450.0	1450.0	Cuttings	63.7	22.5	12.1	6.3	11.1	56.1	171.9	115.8	52.0	44.9	0.57
35/12-1	NOR	91115-33	1480.0	1480.0	Cuttings	92.6	32.9	21.6	5.8	19.7	90.2	262.9	172.6	80.0	46.4	0.29
35/12-1	NOR	91115-34	1510.0	1510.0	Cuttings	67.5	32.2	14.6	4.7	14.4	71.6	205.2	133.5	66.0	49.4	0.32
35/12-1	NOR	91115-35	1550.0	1550.0	Cuttings	35.6	30.3	12.6	29.0	14.8	2294.5	2416.7	122.3	86.7	70.9	1.96
35/12-1	NOR	91115-36	1580.0	1580.0	Cuttings	173.4	84.6	37.4	7.7	27.7	757.6	1088.4	330.8	157.4	47.6	0.28
35/12-1	NOR	91115-37	1610.0	1610.0	Cuttings	149.6	51.5	21.6	5.6	14.4	113.9	356.6	242.7	93.0	38.3	0.39
35/12-1	NOR	91115-38	1640.0	1640.0	Cuttings	121.9	50.4	24.3	4.8	7.5	50.7	259.6	208.8	86.9	41.6	0.64
35/12-1	NOR	91115-39	1670.0	1670.0	Cuttings	89.1	33.0	21.8	7.9	17.2	61.8	230.8	169.0	80.0	47.3	0.46
35/12-1	NOR	91115-40	1700.0	1700.0	Cuttings	126.4	76.0	8.3	7.2	7.4	2070.9	2296.1	225.2	98.9	43.9	0.97
35/12-1	NOR	91115-41	1730.0	1730.0	Cuttings	108.2	69.5	31.5	14.6	26.1	1375.5	1625.4	249.9	141.6	56.7	0.56
35/12-1	NOR	91115-42	1760.0	1760.0	Cuttings	116.5	30.5	48.6	26.7	45.0	206.1	473.5	267.4	150.8	56.4	0.59
35/12-1	NOR	91115-43	1790.0	1790.0	Cuttings	165.3	52.8	51.1	26.3	42.2	176.8	514.4	337.6	172.3	51.0	0.62
35/12-1	NOR	91115-44	1820.0	1820.0	Cuttings	103.9	14.3	26.7	17.2	23.2	121.1	306.3	185.2	81.4	43.9	0.74
35/12-1	NOR	91115-45	1850.0	1850.0	Cuttings	59.0	26.7	13.6	4.7	4.5	46.2	154.7	108.5	49.5	45.7	1.04
35/12-1	NOR	91115-46	1880.0	1880.0	Cuttings	47.2	9.1	4.5	1.3	1.9	16.4	80.4	64.0	16.8	26.2	0.67
35/12-1	NOR	91115-47	1910.0	1910.0	Cuttings	56.7	26.3	11.3	5.0	12.8	54.0	166.0	112.0	55.3	49.4	0.39
35/12-1	NOR	91115-48	1940.0	1940.0	Cuttings	63.2	32.8	25.1	5.7	13.0	59.8	199.7	139.9	76.6	54.8	0.44

OCCLUDED GAS ANALYSIS

Well	Nation	Sample ID	Upper Depth	Lower Depth	Sample	C1 ul/Kg	C2 ul/Kg	C3 ul/Kg	IC4 ul/Kg	nC4 ul/Kg	C5+ ul/Kg	Total ul/Kg	SUM C1-C4	SUM C2-C4	Wetness %	IC4 nC4
35/12-1	NOR	91115-49	1970.0	1970.0	Cuttings	126.3	58.7	38.6	31.6	1.8	112.7	369.7	257.0	130.7	50.9	17.29
35/12-1	NOR	91115-50	2000.0	2000.0	Cuttings	71.4	12.5	23.6	14.8	16.9	144.4	283.7	139.3	67.9	48.7	0.88
35/12-1	NOR	91115-51	2050.0	2050.0	Cuttings	173.9	26.8	56.9	53.4	74.4	480.9	866.4	385.4	211.5	54.9	0.72
35/12-1	NOR	91115-52	2100.0	2100.0	Cuttings	73.8	26.7	23.0	13.7	24.4	360.2	521.8	161.6	87.8	54.3	0.56
35/12-1	NOR	91115-53	2150.0	2150.0	Cuttings	111.8	33.3	42.9	40.7	57.8	289.9	576.4	286.5	174.7	61.0	0.70
35/12-1	NOR	91115-54	2200.0	2200.0	Cuttings	72.4	25.1	22.9	18.8	36.5	161.8	337.6	175.7	103.3	58.8	0.51
35/12-1	NOR	91115-55	2250.0	2250.0	Cuttings	96.8	13.0	17.3	12.1	26.5	88.8	254.5	165.7	68.9	41.6	0.46
35/12-1	NOR	91115-56	2300.0	2300.0	Cuttings	62.7	30.2	30.9	6.0	12.1	38.8	180.7	141.8	79.2	55.8	0.49
35/12-1	NOR	91115-57	2350.0	2350.0	Cuttings	62.1	9.7	13.8	8.7	12.9	46.0	153.1	107.2	45.1	42.1	0.67
35/12-1	NOR	91115-58	2398.0	2398.0	Cuttings	84.8	72.5	267.1	126.3	155.6	663.9	1370.2	706.3	621.4	88.0	0.81
35/12-1	NOR	91115-59	2447.0	2447.0	Cuttings	85.8	67.2	470.6	269.5	358.8	1254.3	2506.2	1251.9	1166.1	93.1	0.75
35/12-1	NOR	91115-60	2502.0	2502.0	Cuttings	151.3	566.1	1850.6	400.4	649.0	1198.4	4815.8	3617.4	3466.1	95.8	0.62
35/12-1	NOR	91115-61	2554.0	2554.0	Cuttings	213.7	577.8	2612.5	487.9	1165.6	1607.1	6664.5	5057.5	4843.7	95.8	0.42
35/12-1	NOR	91115-62	2598.0	2598.0	Cuttings	191.8	165.2	650.5	242.8	509.6	2022.8	3782.7	1759.9	1568.1	89.1	0.48
35/12-1	NOR	91115-63	2652.0	2652.0	Cuttings	84.6	71.6	552.3	217.7	533.2	2454.5	3913.9	1459.4	1374.8	94.2	0.41
35/12-1	NOR	91115-64	2697.0	2697.0	Cuttings	95.5	67.5	791.6	378.3	861.6	3153.1	5347.5	2194.4	2099.0	95.7	0.44
35/12-1	NOR	91115-65	2751.0	2751.0	Cuttings	110.9	49.7	217.7	95.2	232.9	1151.3	1857.6	706.3	595.4	84.3	0.41
35/12-1	NOR	91115-66	2796.0	2796.0	Cuttings	112.8	62.1	326.8	132.2	381.2	1501.8	2517.0	1015.2	902.3	88.9	0.35
35/12-1	NOR	91115-67	2850.0	2850.0	Cuttings	228.1	275.1	1042.4	217.3	841.4	1584.4	4188.6	2604.3	2376.2	91.2	0.26
35/12-1	NOR	91115-68	2895.0	2895.0	Cuttings	151.9	91.1	540.6	186.8	584.7	2257.7	3812.8	1555.1	1403.1	90.2	0.32
35/12-1	NOR	91115-69	2949.0	2949.0	Cuttings	84.4	50.8	239.2	65.1	230.6	1037.0	1707.1	670.1	585.6	87.4	0.28
35/12-1	NOR	91115-70	2994.0	2994.0	Cuttings	90.3	67.8	393.2	120.6	358.8	1144.7	2175.3	1030.7	940.4	91.2	0.34
35/12-1	NOR	91115-71	3018.0	3018.0	Cuttings	126.5	325.1	2311.0	617.1	1621.2	3370.1	8371.0	5000.9	4874.5	97.5	0.38

COMBINED HEADSPACE & OCCLUDED GAS ANALYSIS

Well	Nation	Sample ID	Upper Depth	Lower Depth	Sample	C1 uL/Kg	C2 uL/Kg	C3 uL/Kg	iC4 uL/Kg	nC4 uL/Kg	C5+ uL/Kg	Total uL/Kg	SUM C1-C4	SUM C2-C4	Wetness %	iC4 nC4
35/12-1	NOR	91115-1	490.0	490.0	Cuttings	1542.3	44.3	27.1	9.3	18.9	177.1	1819.0	1641.9	99.6	6.1	0.49
35/12-1	NOR	91115-2	530.0	530.0	Cuttings	8164.3	114.4	120.2	25.5	82.6	422.7	8929.8	8507.1	342.8	4.0	0.31
35/12-1	NOR	91115-3	560.0	560.0	Cuttings	34080.1	0.0	3.1	0.0	0.0	3.9	34087.1	34083.2	3.1	0.0	
35/12-1	NOR	91115-4	590.0	590.0	Cuttings	1677.5	56.1	40.7	5.3	22.2	97.1	1899.1	1801.9	124.4	6.9	0.24
35/12-1	NOR	91115-5	620.0	620.0	Cuttings	1570.6	25.4	16.1	3.2	6.0	68.9	1690.2	1621.4	50.7	3.1	0.54
35/12-1	NOR	91115-6	650.0	650.0	Cuttings	715.0	38.2	29.4	1.8	19.8	48.0	852.2	804.2	89.2	11.1	0.09
35/12-1	NOR	91115-7	680.0	680.0	Cuttings	1191.1	10.7	5.2	0.9	2.7	14.1	1224.6	1210.5	19.4	1.6	0.32
35/12-1	NOR	91115-8	710.0	710.0	Cuttings	1204.4	46.3	33.7	4.6	18.9	49.0	1356.9	1307.9	103.5	7.9	0.25
35/12-1	NOR	91115-9	740.0	740.0	Cuttings	298.3	40.2	25.5	5.0	3.0	53.8	425.9	372.1	73.8	19.8	1.66
35/12-1	NOR	91115-10	770.0	770.0	Cuttings	250.4	49.7	28.0	3.1	18.1	158.3	507.6	349.3	98.9	28.3	0.17
35/12-1	NOR	91115-11	800.0	800.0	Cuttings	309.3	48.4	22.5	2.9	15.3	49.3	447.7	398.4	89.1	22.4	0.19
35/12-1	NOR	91115-12	830.0	830.0	Cuttings	284.0	67.7	48.2	4.8	10.5	71.1	486.3	415.2	131.3	31.6	0.46
35/12-1	NOR	91115-13	860.0	860.0	Cuttings	135.2	36.3	22.8	4.6	2.3	36.8	238.0	201.2	66.0	32.8	2.00
35/12-1	NOR	91115-14	890.0	890.0	Cuttings	225.6	48.0	20.5	3.3	5.2	41.9	344.5	302.6	77.0	25.5	0.63
35/12-1	NOR	91115-15	920.0	920.0	Cuttings	188.8	48.9	25.9	5.0	5.0	33.3	306.9	273.6	84.9	31.0	1.00
35/12-1	NOR	91115-16	950.0	950.0	Cuttings	602.3	58.9	33.6	3.9	19.4	41.6	759.8	718.1	115.9	16.1	0.20
35/12-1	NOR	91115-17	980.0	980.0	Cuttings	199.0	29.8	14.0	2.9	2.3	89.7	337.7	248.0	48.9	19.7	1.28
35/12-1	NOR	91115-18	1010.0	1010.0	Cuttings	243.8	50.5	23.3	2.8	19.9	53.8	394.0	340.3	96.5	28.4	0.14
35/12-1	NOR	91115-19	1040.0	1040.0	Cuttings	120.4	33.8	21.4	8.0	19.2	163.4	366.2	202.8	82.4	40.6	0.41
35/12-1	NOR	91115-20	1070.0	1070.0	Cuttings	76.0	30.5	13.2	2.0	3.3	30.1	155.0	124.9	48.9	39.2	0.61
35/12-1	NOR	91115-21	1100.0	1100.0	Cuttings	212.9	41.3	21.6	3.6	14.3	53.0	346.6	293.6	80.7	27.5	0.25
35/12-1	NOR	91115-22	1130.0	1130.0	Cuttings	87.6	24.6	9.8	4.9	4.2	50.1	181.2	131.1	43.5	33.2	1.16
35/12-1	NOR	91115-23	1160.0	1160.0	Cuttings	97.9	35.7	17.9	3.5	11.5	35.8	202.2	166.4	68.5	41.2	0.30
35/12-1	NOR	91115-24	1190.0	1190.0	Cuttings	98.5	50.5	31.6	2.7	17.0	93.6	293.8	200.2	101.8	50.8	0.16

COMBINED HEADSPACE & OCCLUDED GAS ANALYSIS

Well	Nation	Sample ID	Upper Depth	Lower Depth	Sample	C1 uL/Kg	C2 uL/Kg	C3 uL/Kg	IC4 uL/Kg	nC4 uL/Kg	C5+ uL/Kg	Total uL/Kg	SUM C1-C4	SUM C2-C4	Wetness %	IC4 nC4
35/12-1	NOR	91115-25	1220.0	1220.0	Cuttings	175.1	82.1	36.5	7.7	24.4	246.6	572.4	325.8	150.7	46.3	0.31
35/12-1	NOR	91115-26	1250.0	1250.0	Cuttings	79.2	38.5	11.8	4.6	3.5	35.5	173.1	137.6	58.4	42.4	1.29
35/12-1	NOR	91115-27	1280.0	1280.0	Cuttings	375.7	58.1	37.7	22.5	32.2	251.7	777.8	526.2	150.5	28.6	0.70
35/12-1	NOR	91115-28	1310.0	1310.0	Cuttings	3015.8	79.8	61.5	40.0	36.3	256.5	3489.9	3233.4	217.6	6.7	1.10
35/12-1	NOR	91115-29	1340.0	1340.0	Cuttings	132.2	38.8	21.9	12.9	14.0	147.3	367.0	219.7	87.5	39.8	0.92
35/12-1	NOR	91115-30	1380.0	1380.0	Cuttings	89.7	34.5	16.6	9.1	6.9	136.0	292.9	156.9	67.2	42.8	1.33
35/12-1	NOR	91115-31	1420.0	1420.0	Cuttings	88.4	10.2	12.1	5.3	3.4	24.9	144.3	119.4	31.0	25.9	1.54
35/12-1	NOR	91115-32	1450.0	1450.0	Cuttings	96.7	38.2	17.9	10.4	15.3	70.7	249.3	178.6	81.8	45.8	0.68
35/12-1	NOR	91115-33	1480.0	1480.0	Cuttings	631.6	106.9	50.8	8.1	26.8	102.5	926.8	824.2	192.6	23.4	0.30
35/12-1	NOR	91115-34	1510.0	1510.0	Cuttings	343.3	64.7	25.8	5.6	18.0	76.8	534.4	457.5	114.2	25.0	0.31
35/12-1	NOR	91115-35	1550.0	1550.0	Cuttings	213.9	41.1	17.3	30.4	16.6	2300.0	2619.2	319.3	105.4	33.0	1.83
35/12-1	NOR	91115-36	1580.0	1580.0	Cuttings	355.0	100.5	46.6	14.4	34.9	785.0	1336.4	551.4	196.4	35.6	0.41
35/12-1	NOR	91115-37	1610.0	1610.0	Cuttings	195.4	53.4	23.7	7.2	15.9	119.4	415.0	295.6	100.1	33.9	0.45
35/12-1	NOR	91115-38	1640.0	1640.0	Cuttings	258.4	68.8	36.8	8.9	13.5	64.1	450.5	386.3	127.9	33.1	0.66
35/12-1	NOR	91115-39	1670.0	1670.0	Cuttings	327.1	53.6	41.5	15.0	25.8	72.8	535.8	463.0	136.0	29.4	0.58
35/12-1	NOR	91115-40	1700.0	1700.0	Cuttings	171.0	80.7	12.0	8.5	9.3	2074.4	2355.8	281.4	110.5	39.2	0.91
35/12-1	NOR	91115-41	1730.0	1730.0	Cuttings	223.4	80.4	41.3	17.7	29.1	1379.1	1771.0	391.9	168.4	43.0	0.61
35/12-1	NOR	91115-42	1760.0	1760.0	Cuttings	409.0	74.6	74.2	34.6	54.3	220.4	867.2	646.8	237.7	36.8	0.64
35/12-1	NOR	91115-43	1790.0	1790.0	Cuttings	190.4	56.8	54.6	28.4	44.3	182.3	556.7	374.4	184.0	49.1	0.64
35/12-1	NOR	91115-44	1820.0	1820.0	Cuttings	714.6	134.9	85.6	29.3	37.3	139.2	1140.8	1001.6	287.1	28.7	0.79
35/12-1	NOR	91115-45	1850.0	1850.0	Cuttings	184.1	39.6	28.8	8.4	8.4	58.0	327.3	269.3	85.2	31.7	1.00
35/12-1	NOR	91115-46	1880.0	1880.0	Cuttings	265.4	20.6	14.3	4.6	5.0	27.6	337.5	309.9	44.5	14.4	0.91
35/12-1	NOR	91115-47	1910.0	1910.0	Cuttings	148.4	34.1	17.1	7.2	14.9	59.0	280.6	221.6	73.2	33.1	0.48
35/12-1	NOR	91115-48	1940.0	1940.0	Cuttings	135.1	52.3	33.2	7.4	15.9	64.9	308.9	244.0	108.8	44.6	0.46

COMBINED HEADSPACE & OCCLUDED GAS ANALYSIS

Well	Nation	Sample ID	Upper Depth	Lower Depth	Sample	C1 uL/Kg	C2 uL/Kg	C3 uL/Kg	IC4 uL/Kg	nC4 uL/Kg	C5+ uL/Kg	Total uL/Kg	SUM C1-C4	SUM C2-C4	Wetness %	IC4 nC4
35/12-1	NOR	91115-49	1970.0	1970.0	Cuttings	313.2	69.0	45.0	34.5	4.7	122.4	588.8	466.4	153.2	32.8	7.29
35/12-1	NOR	91115-50	2000.0	2000.0	Cuttings	229.8	30.4	45.1	29.5	26.8	155.1	516.8	361.7	131.9	36.5	1.10
35/12-1	NOR	91115-51	2050.0	2050.0	Cuttings	433.8	58.3	86.9	64.4	84.2	488.8	1216.5	727.6	293.8	40.4	0.77
35/12-1	NOR	91115-52	2100.0	2100.0	Cuttings	281.2	58.7	53.8	29.7	40.5	383.2	847.1	463.9	182.7	39.4	0.73
35/12-1	NOR	91115-53	2150.0	2150.0	Cuttings	355.4	61.1	74.7	53.7	69.6	300.4	914.9	614.5	259.1	42.2	0.77
35/12-1	NOR	91115-54	2200.0	2200.0	Cuttings	199.4	43.6	42.6	27.4	46.6	171.4	531.1	359.6	160.2	44.5	0.59
35/12-1	NOR	91115-55	2250.0	2250.0	Cuttings	237.3	34.9	35.2	17.4	31.1	91.5	447.4	355.9	118.6	33.3	0.56
35/12-1	NOR	91115-56	2300.0	2300.0	Cuttings	1537.0	160.2	83.5	12.2	17.0	45.3	1855.2	1809.8	272.9	15.1	0.71
35/12-1	NOR	91115-57	2350.0	2350.0	Cuttings	303.9	52.3	59.9	21.4	23.9	51.7	513.0	461.4	157.5	34.1	0.89
35/12-1	NOR	91115-58	2398.0	2398.0	Cuttings	2111.1	272.2	415.5	155.7	179.7	695.5	3829.7	3134.2	1023.0	32.6	0.87
35/12-1	NOR	91115-59	2447.0	2447.0	Cuttings	2792.5	731.2	1336.0	543.4	558.3	1479.2	7440.6	5961.4	3168.9	53.2	0.97
35/12-1	NOR	91115-60	2502.0	2502.0	Cuttings	14648.4	3225.3	3750.0	648.2	903.4	1407.8	24583.1	23175.3	8526.9	36.8	0.72
35/12-1	NOR	91115-61	2554.0	2554.0	Cuttings	2520.9	963.8	2977.3	525.6	1213.4	1624.3	9825.2	8201.0	5680.0	69.3	0.43
35/12-1	NOR	91115-62	2598.0	2598.0	Cuttings	2173.6	437.9	947.3	291.5	590.6	2098.8	6539.7	4440.9	2267.3	51.1	0.49
35/12-1	NOR	91115-63	2652.0	2652.0	Cuttings	1756.7	382.3	1003.2	290.7	671.8	2552.4	6657.1	4104.7	2348.0	57.2	0.43
35/12-1	NOR	91115-64	2697.0	2697.0	Cuttings	2422.9	388.5	1222.9	444.3	977.5	3236.5	8692.5	5456.0	3033.2	55.6	0.45
35/12-1	NOR	91115-65	2751.0	2751.0	Cuttings	710.3	132.1	349.3	121.6	290.4	1219.6	2823.2	1603.6	893.3	55.7	0.42
35/12-1	NOR	91115-66	2796.0	2796.0	Cuttings	675.4	134.7	437.5	152.0	428.4	1553.6	3381.7	1828.1	1152.6	63.1	0.35
35/12-1	NOR	91115-67	2850.0	2850.0	Cuttings	4109.7	621.8	1313.1	246.1	905.1	1618.0	8813.7	7195.8	3086.1	42.9	0.27
35/12-1	NOR	91115-68	2895.0	2895.0	Cuttings	1502.9	235.1	725.8	211.5	649.3	2310.1	5634.7	3324.6	1821.6	54.8	0.33
35/12-1	NOR	91115-69	2949.0	2949.0	Cuttings	1016.8	203.6	430.6	88.3	285.0	1084.0	3108.3	2024.3	1007.4	49.8	0.31
35/12-1	NOR	91115-70	2994.0	2994.0	Cuttings	469.5	145.9	498.2	135.6	391.2	1217.0	2857.3	1640.4	1170.9	71.4	0.35
35/12-1	NOR	91115-71	3018.0	3018.0	Cuttings	9784.5	3124.4	5808.5	1032.8	2523.6	3970.5	26244.3	22273.8	12489.4	56.1	0.41

CARBON ISOTOPE DATA - HEADSPACE GAS

Well	Nation	Sample ID	Upper Depth	Lower Depth	Sample	del C13 G1	del C13 G2	del C13 G3	del C13 iC4	del C13 nC4
35/12-1	NOR	91115-3	560.0	560.0	Cuttings	-66.6				
35/12-1	NOR	91115-28	1310.0	1310.0	Cuttings	-54.5				
35/12-1	NOR	91115-58	2398.0	2398.0	Cuttings	-49.2	-27.6	-29.9		
35/12-1	NOR	91115-59	2447.0	2447.0	Cuttings	-36.5				
35/12-1	NOR	91115-64	2697.0	2697.0	Cuttings	-43.8	-27.2	-29.4		

IATROSCAN FRACTIONATION DATA

Well Name	Nation	Sample Name	Upper Depth	Lower Depth	Sample Type	Rock Weight	EOM mg/g	SAT mg/g	ARO mg/g	Polars mg/g
35/12-1	NOR	91115 - 16A	950.0	950.0	Cuttings	2.3	0.23	0.04	0.02	0.18
35/12-1	NOR	91115 - 17A	980.0	980.0	Cuttings	2.1	0.63	0.10	0.06	0.47
35/12-1	NOR	91115 - 18A	1010.0	1010.0	Cuttings	1.4	0.14	0.03	0.02	0.10
35/12-1	NOR	91115 - 61A	2554.0	2554.0	Cuttings	1.3	3.38	0.17	0.28	2.94
35/12-1	NOR	91115 - 63A	2652.0	2652.0	Cuttings	1.5	2.40	0.15	0.28	1.97
35/12-1	NOR	91115 - 71A	3018.0	3018.0	Cuttings	1.4	3.64	0.17	0.51	2.96

SATS GC INTEGRATION DATA

Well	Nation	Sample ID	Upper Depth	Lower Depth	Sample Type	Lith	nC17 uV	nC18 uV	nC22 uV	nC27 uV	nC32 uV	Nor Pris uV	Pris uV	Phyt uV	GPI1	GPI2	Pris nC17	Phyt nC18	Pris Phyt
35/12-1	NOR	91115-12	830.0	830.0	Ctgs	Coal	17392	33791	26082	115552	8019	4625	9954	19324	4.57	5.65	0.27	0.57	0.52
35/12-1	NOR	91115-56	2300.0	2300.0	Ctgs	Clyst	751	15005	16664	11499	4010	93	393	2935	1.33	1.57	0.12	0.20	0.13
35/12-1	NOR	91115-58	2398.0	2398.0	Ctgs	Clyst	311783	357193	248927	488625	106517	51284	297320	306860	1.45	1.36	0.16	0.86	0.97
35/12-1	NOR	91115-62	2598.0	2598.0	Ctgs	Clyst	53078	127676	157882	218986	36623	3390	48993	99293	1.59	1.44	0.06	0.78	0.49
35/12-1	NOR	91115-63	2652.0	2652.0	Ctgs	Sst	7606	30318	37352	46933	13346	215	3638	8609	1.34	1.48	0.03	0.28	0.42

AROMATIC GC INTEGRATION DATA

Well	Nation	Sample ID	Upper Depth	Lower Depth	Sample Type	Lithology	P uV	3MP uV	2MP uV	9MP uV	1MP uV	2MP 1MP	MPI 1
35/12-1	NOR	91115-12A	830.0	830.0	Cuttings	Coal							
35/12-1	NOR	91115-56A	2300.0	2300.0	Cuttings	Clyst							
35/12-1	NOR	91115-58A	2398.0	2398.0	Cuttings	Clyst	848	585	529	906	851	0.62	0.64
35/12-1	NOR	91115-62A	2598.0	2598.0	Cuttings	Clyst	345	442	434	909	706	0.61	0.67
35/12-1	NOR	91115-63A	2652.0	2652.0	Cuttings	Sst	1054	514	849	1863	1092	0.78	0.51

PYROLYSIS GC INTEGRATION DATA

Well	Nation	Sample ID	Upper Depth	Lower Depth	Sample	% C1	% C2-C5	% C6-C14	% C15+
35/12-1	NOR	91115-12A	830.0	830.0	Core	9.65	17.79	52.09	20.48
35/12-1	NOR	91115-56A	2300.0	2300.0	Core	2.80	24.27	48.86	24.07
35/12-1	NOR	91115-58A	2398.0	2398.0	Core	11.46	26.76	41.90	19.89
35/12-1	NOR	91115-62A	2598.0	2598.0	Core	4.05	21.63	47.25	27.08
35/12-1	NOR	91115-63B	2652.0	2652.0	Core	3.20	30.20	47.42	19.18

SATURATE GC/MS - PEAK INTEGRATION DATA

Well Name	Nation	Sample Name	Upper Depth	Lower Depth	Sample Type	Lith	191 IONS								
							A	B	Z	C	C ₁	X	D	E	F
35/12-1	NOR	91115-12A	830.0	830.0	Cuttings	Coal	798.51	1364.49	382.61	1501.67	425.85	169.41	112.94	136.73	113.94
35/12-1	NOR	91115-56A	2300.0	2300.0	Cuttings	Clyst	247.05	1567.75	59.00	1481.37	328.28	62.56	504.25	1797.01	612.92
35/12-1	NOR	91115-58A	2398.0	2398.0	Cuttings	Clyst	197.65	1701.90	2789.19	1915.05		193.36	720.54	3235.61	769.59
35/12-1	NOR	91115-62A	2598.0	2598.0	Cuttings	Clyst	359.51	2832.66	776.34	3294.68	629.32	298.45	1335.73	5189.54	1274.42
35/12-1	NOR	91115-63A	2652.0	2652.0	Cuttings	Sst	19.96	95.72	53.33	94.40	28.13	8.82	27.19	124.78	31.87

Well Name	Nation	Sample Name	Upper Depth	Lower Depth	Sample Type	Lith	191 IONS								
							G1	G2	J1	J2	K1	K2	L1	L2	M1
35/12-1	NOR	91115-12A	830.0	830.0	Cuttings	Coal	44.93	471.78	10.12	40.44	27.67	14.90			
35/12-1	NOR	91115-56A	2300.0	2300.0	Cuttings	Clyst	519.91	492.01	143.51	150.50	75.61	69.16	34.29	60.10	30.37
35/12-1	NOR	91115-58A	2398.0	2398.0	Cuttings	Clyst	1189.22	1441.76	131.90	297.13	61.69	133.87	35.71	65.33	24.60
35/12-1	NOR	91115-62A	2598.0	2598.0	Cuttings	Clyst	1948.08	2369.82	236.13	461.74	105.16	203.87	65.09	104.35	38.90
35/12-1	NOR	91115-63A	2652.0	2652.0	Cuttings	Sst	40.15	28.76	14.16	15.57	8.88	7.49	7.42	7.45	5.66

Well Name	Nation	Sample Name	Upper Depth	Lower Depth	Sample Type	Lith	191 IONS			217 IONS				
							M2	I	N	J	Q	R	S	T
35/12-1	NOR	91115-12A	830.0	830.0	Cuttings	Coal		89.17	202.56	272.35	210.19	2182.68	310.00	6259.06
35/12-1	NOR	91115-56A	2300.0	2300.0	Cuttings	Clyst	27.80	242.86	46.82	119.14	39.34	80.85	46.22	114.41
35/12-1	NOR	91115-58A	2398.0	2398.0	Cuttings	Clyst	52.82	558.40	139.46	882.15	86.27	392.17	152.78	699.72
35/12-1	NOR	91115-62A	2598.0	2598.0	Cuttings	Clyst	72.58	923.83	137.44	1533.01	166.82	562.72	227.62	1143.30
35/12-1	NOR	91115-63A	2652.0	2652.0	Cuttings	Sst	5.16	15.25	2.06	5.26	3.15	12.51	6.82	12.11

Well Name	Nation	Sample Name	Upper Depth	Lower Depth	Sample Type	Lith	218 IONS		
							B	D	F
35/12-1	NOR	91115-12A	830.0	830.0	Cuttings	Coal	24.80	41.51	18.60
35/12-1	NOR	91115-56A	2300.0	2300.0	Cuttings	Clyst	69.31	51.57	50.27
35/12-1	NOR	91115-58A	2398.0	2398.0	Cuttings	Clyst	168.32	156.26	159.99
35/12-1	NOR	91115-62A	2598.0	2598.0	Cuttings	Clyst	299.75	241.13	248.18
35/12-1	NOR	91115-63A	2652.0	2652.0	Cuttings	Sst	3.57	3.11	6.53

Well Name	Nation	Sample Name	Upper Depth	Lower Depth	Sample Type	Lith	B	B	C	C	Z	Z	J1*(100)	Q*(100)	R+S
							A	A+B	E	C+E	E	Z+E	J1+J2	Q+T	R+S+Q+T
35/12-1	NOR	91115-12A	830.0	830.0	Cuttings	Coal	1.71	0.63	10.98	0.92	2.80	0.74	20.02	3.25	0.28
35/12-1	NOR	91115-56A	2300.0	2300.0	Cuttings	Clyst	6.35	0.86	0.82	0.45	0.03	0.03	48.81	25.59	0.45
35/12-1	NOR	91115-58A	2398.0	2398.0	Cuttings	Clyst	8.61	0.90	0.59	0.37	0.86	0.46	30.74	10.98	0.41
35/12-1	NOR	91115-62A	2598.0	2598.0	Cuttings	Clyst	7.88	0.89	0.63	0.39	0.15	0.13	33.84	12.73	0.38
35/12-1	NOR	91115-63A	2652.0	2652.0	Cuttings	Sst	4.80	0.83	0.76	0.43	0.43	0.30	47.63	20.64	0.56

AROMATIC GC/MS PEAK INTEGRATION DATA

Well Name	Nation	Sample Name	Upper Depth	Lower Depth	Sample Type	Lith	178 IONS	192 IONS					184 IONS	192 IONS		
							P	3MP	2MP	9MP	1MP	DBT	4MDBT	3+2MDBT	1MDBT	
35/12-1	NOR	91115-12A	830.0	830.0	Cuttings	Coal	7610.48	102.39	101.30	121.84	109.05	387.98	45.95	15.97	28.44	
35/12-1	NOR	91115-56A	2300.0	2300.0	Cuttings	Clyst	23.55	5.28	5.13	20.12	12.69	0.95	2.02	1.41	2.05	
35/12-1	NOR	91115-58A	2398.0	2398.0	Cuttings	Clyst	5652.76	1316.55	1501.46	2907.23	2249.31	343.93	279.86	135.51	592.20	
35/12-1	NOR	91115-62A	2598.0	2598.0	Cuttings	Clyst	4594.15	1333.00	1759.37	4254.93	2646.15	268.25	335.86	154.22	447.70	
35/12-1	NOR	91115-63A	2652.0	2652.0	Cuttings	Sst	9084.49	1636.70	3017.48	7096.99	3339.14	229.58	205.82	137.96	76.41	

Well Name	Nation	Sample Name	Upper Depth	Lower Depth	Sample Type	Lith	253 IONS			231 IONS						
							H	P	R	A	B	C	D	E	F	G
35/12-1	NOR	91115-12A	830.0	830.0	Cuttings	Coal	26.24	10.45	8.44	2.74	3.38		5.24	1.96	3.12	2.72
35/12-1	NOR	91115-56A	2300.0	2300.0	Cuttings	Clyst	0.49	0.46	0.42	1.86	1.63	1.41	4.36	0.77	2.24	1.18
35/12-1	NOR	91115-58A	2398.0	2398.0	Cuttings	Clyst	73.39	25.62	12.18	42.50	20.28	31.39	97.03	28.02	37.84	26.98
35/12-1	NOR	91115-62A	2598.0	2598.0	Cuttings	Clyst	31.35	12.10	5.56	48.30	23.34	31.62	91.54	24.01	36.96	25.28
35/12-1	NOR	91115-63A	2652.0	2652.0	Cuttings	Sst	0.52	0.58	0.55	1.83	0.71	0.93	1.08	0.71	0.41	0.71

Well Name	Nation	Sample Name	Upper Depth	Lower Depth	Sample Type	Lith	<u>A</u>	<u>B</u>	<u>A</u>
							A+G	B+G	A+D
35/12-1	NOR	91115-12A	830.0	830.0	Cuttings	Coal	0.50	0.55	0.34
35/12-1	NOR	91115-56A	2300.0	2300.0	Cuttings	Clyst	0.61	0.58	0.30
35/12-1	NOR	91115-58A	2398.0	2398.0	Cuttings	Clyst	0.61	0.43	0.30
35/12-1	NOR	91115-62A	2598.0	2598.0	Cuttings	Clyst	0.66	0.48	0.35
35/12-1	NOR	91115-63A	2652.0	2652.0	Cuttings	Sst	0.72	0.50	0.63

CARBON ISOTOPE DATA

Well	Nation	Sample ID	Upper Depth	Lower Depth	Sample	Lith	del C13 EOM	del C13 SAT	del C13 ARO	del C13 NSO	del C13 Asph
35/12-1	NOR	91115-12A	830.0	830.0	Cuttings	Coal	-24.0	-28.2	-24.6	-24.5	-24.0
35/12-1	NOR	91115-56A	2300.0	2300.0	Cuttings	Clyst	-26.5	-20.7	*	*	-26.8
35/12-1	NOR	91115-58A	2398.0	2398.0	Cuttings	Clyst	-28.8	-30.7	-29.3	-28.6	-27.0
35/12-1	NOR	91115-62A	2598.0	2598.0	Cuttings	Clyst	-29.2	-30.3	-29.2	-28.6	-26.6
35/12-1	NOR	91115-63A	2652.0	2652.0	Cuttings	Sst	-24.3	*	*	-24.7	-24.1

NAMAS ACCREDITATION

Simon Laboratories is NAMAS accredited for the following methods :-

- OLS/001 Determination of the Carbon Content of geological samples
- OLS/002 Determination of Carbonate by the LECO method
- OLS/003 Geochemistry sample preparation techniques
- OLS/005 Rock Eval pyrolysis for screening geochemistry
- OLS/008 Quantitative DCM extraction by Soxhtec
- OLS/009 Quantitative DCM extraction by Soxhlet
- OLS/010 Column chromatography
- OLS/011 Headspace gas analysis C1 – C4
- OLS/012 Headspace gas analysis C1 – C6+
- OLS/013 Occluded gas analysis C1 – C4
- OLS/014 Occluded gas analysis C1 – C6+
- OLS/015 Gasoline (C4 – C7) analysis
- OLS/016 C15+ saturate fraction gas chromatography by flame ionisation detection
- OLS/017 Aromatic fraction gas chromatography by flame ionisation detection
- OLS/019 Column chromatography for the fractionation of hydrocarbon mixtures
- OLS/021 Whole oil gas chromatography
- OLS/022 Pyrolysis – Gas chromatography
- OLS/023 Fractionation by Iatroscan
- OLS/026 Topping of oils
- OLS/027 Gas chromatography – Mass spectrometry of organic biomarkers
- OLS/028 2D Ultra Violet fluorescence spectrometry
- OLS/029 3D Ultra Violet fluorescence spectrometry
- OLS/030 Determination of asphaltene content by precipitation
- WC/002 Determination of water in lubricating oil
- WC/003 Determination of fuel in lubricating oil
- WC/004 Determination of the dielectric of lubricating oil
- WC/005 Determination of viscosity of lubricating oil
- WC/007 Determination of API gravity
- WC/008 Total base number
- WC/009 Cold finger plugging point
- WC/010 Wear metals in lubricants by ICP
- WC/011 Determination of API gravity of small samples by Archimedes Bridges

NAMAS ACCREDITATION

The National Measurement Accreditation Service, NAMAS, is the official UK national authority competent in the field of laboratory accreditation.

NAMAS conduct a surveillance visit six months after accreditation and annually thereafter. Four years after accreditation, NAMAS undertakes a full re-assessment NAMAS can make unannounced visits.

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| - Quality system | - Staff |
| - Measurement traceability | - Environment |
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New Zealand (TELARC)	Norway (DNVQA)	Sweden (SMO)
Switzerland (SMO)		

Simon Laboratories are NAMAS accredited for all the methods listed overleaf.

ANALYTICAL METHODS

ANALYSIS	INSTRUMENT	METHOD	TEMPERATURE PROGRAM	COLUMNS
TOC	Leco CS 125	OLS 1		
Rock Eval Pyrolysis	Rock Eval II	OLS 5	Cycle 1	
Headspace gas	Perkin Elmer Sigma 3	Saga method	Isothermal 110C	1/8" SS packed
Occluded gas	Perkin Elmer Sigma 3	Saga method	Isothermal 110C	1/8" SS packed
Introsan fractionation	Introsan MKIII	OLS 23		
Quantitative Extraction	Soxhtec Tecator 1043	Saga method	Boil 1 hr, rinse 2hrs (DCM:MeOH, 7:1)	
Alkane GC	HP5890a (on column)	Saga method	80C 3min, 4C/min to 300C, 300c 12 min.	CP SIL-5
Aromatic GC FID	AMS 92	Saga method	80C - 103C (1C/min), 103C-140C (3C/min)	DB-5
Alkane GC/MS	VG 7070 H	Saga method	180C 1min, 1.7C/min to 310C, 310C 10 min.	DB-1
Aromatic GC/MS	VG 7070 H	Saga method	180C 1min, 1.7C/min to 310C, 310C 10 min.	DB-5
Pyrolysis GC	Perkin Elmer F17	OLS 22	-30C to 270C @ 7.5C/min	CP SIL-5
Isotope analysis	run at IFE			