

2.3 Formation Evaluation

A segregated sample at
4531.7 mRKB MD (TVD: 4329.5 mRKB) gave formation water with no traces of
hydrocarbons.

Formation Pressure



RUN 4B/C/D

DEPTH		Hydrostatic Pressure HP Gauge		Formation Pressure HP Gauge		Comments
MDmRKB	TVDmRKB	Before Psia	After Psia	Psia	Bara	Test type
4531.5	4329.3	10358.3	10358.4	9602.0	662.06	10 cc test
4532.5	4330.2	10358.4	10361.7	9603.5	662.16	10 cc test
4542.0	4339.1	10381.1	-	-	-	Tight,ab.test
4543.0	4340.1	10385.7	10385.8	9653.1	665.58	10 cc test
4544.0	4341.0	10385.6	-	-	-	Tight,ab.test
4564.5	4360.3	10434.5	-	-	-	Tight,ab.test
4566.5	4362.2	10441.6	-	-	-	Tight,ab.test
4578.5	4373.4	10475.7	-	-	-	Tight,ab.test
4575.0	4370.1	10472.0	-	-	-	Tight,ab.test
4571.0	4366.4	10462.8	-	-	-	Tight,ab.test
4583.0	4377.7	10488.2	-	-	-	Tight,ab.test
4584.5	4379.1	10495.6	-	-	-	Tight,ab.test
4534.0	4331.6	10358.2	10356.2	9615.1	662.96	10 cc test
4588.0	4382.3	10493.3	-	-	-	Tight,ab.test
4587.0	4381.4	10492.9	-	-	-	Tight,ab.test
4531.5	4329.3	10352.3	10353.7	9603.0	662.13	10 cc test
4532.5	4330.2	10354.3	-	-	-	Tight,ab.test
4531.5	4329.3	10351.8	10349.0	9602.4	662.09	10 cc test
4531.5	4329.3	10345.3	-	-	-	Tight,ab.test
4531.7	4329.5	10346.0	10343.0	9592.5	661.40	Seg. sample
4577.0	4372.0	10444.2	-	-	-	Tight,ab.test
4577.5	4372.5	10449.3	-	-	-	Tight,ab.test
4595.5	4389.4	10492.7	-	-	-	Tight,ab.test
4597.5	4391.3	10501.3	-	-	-	Tight,ab.test
4601.5	4395.0	10498.1	-	-	-	Tight,ab.test
4577.7	4372.7	10441.2	-	-	-	Tight,ab.test
4577.3	4372.3	10445.0	-	-	-	Tight,ab.test

Remarks:

All Pressures reported are from a HP gauge, RKB : 24 m

Date	Hole size	Hole depth	Mud weight	PV	YP	Gel strength	PH	Alkalinity Pf /Mf	Ca++ mg/l	Cl- mg/l	Sand 'fc	Solids %	Mudtype
921002	PSPUD					/		/					SPUD MUD
921003	PSPUD					/		/					SPUD MUD
921004	PSPUD					/		/					SPUD MUD
921005	9 7/8"	516.0	1.04			/		/					SPUD MUD
921006	36"	516.0	1.04			/		/					SPUD MUD
921007	36"	600.0	1.03			/		/					SPUD MUD
921008	26"	600.0	1.04			/		/					SPUD MUD
921009	9 7/8"	863.0	1.04			/		/					SPUD MUD
921010	9 7/8"	1018.0	1.04			/		/					SPUD MUD
921011	26"	1018.0	1.04			/		/					SPUD MUD
921012	26"	1018.0	1.04			/		/					SPUD MUD
921013	26"	1018.0	1.04			/		/					SPUD MUD
921014	26"	1018.0	1.04			/		/					SPUD MUD
921015	26"	1018.0	1.11	13.0	17.0	4/4		/					KCL MUD ← fakr/H-e^0
921016	17 1/2"	1018.0	1.11	12.0	14.0	4/4	9.3	.1/.9	180	78000		7.0	KCL MUD
921017	17 1/2"	1186.0	1.17	24.0	28.0	5/6	9.1	/	240	70000		11.0	KCL MUD
921018	17 1/2"	1299.0	1.17	22.0	23.0	4/4	9.0	/.7	240	63000		10.0	KCL MUD
921019	17 1/2"	1480.0	1.17	19.0	17.0	4/4	8.9	/.6	240	70000		10.5	KCL MUD
921020	17 1/2"	1683.0	1.17	20.0	19.0	4/4	8.4	/.6	280	77000		12.0	KCL MUD
921021	17 1/2"	1808.0	1.17	20.0	21.0	4/4	8.2	/.6	280	72000		12.0	KCL MUD
921022	17 1/2"	1917.0	1.17	22.0	22.0	4/4	8.2	/.6	240	72000		11.0	KCL MUD
921023	17 1/2"	2086.0	1.18	20.0	4.3	4/4	8.3	/.6	300	77000		11.0	KCL MUD
921024	17 1/2"	2149.0	1.20	22.0	22.0	4/4	8.4	/.6	280	79000		12.0	KCL MUD
921025	17 1/2"	2149.0	1.20	23.0	22.0	4/4	8.3	/.6	280	79000		12.0	KCL MUD
921026	17 1/2"	2149.0	1.21	22.0	19.0	4/4	8.6	/.6	280	77000		12.0	KCL MUD
921027	17 1/2"	2149.0	1.21	23.0	20.0	/	8.5	/.6	280	76000		12.0	KCL MUD
921028	17 1/2"	2149.0	1.21	22.0	20.0	4/	8.5	/.6	280	76000		12.0	KCL MUD

Date	Hole size	Hole depth	Mud weight	PV	YP	Gel strength	PH	Alkalinity Pf /Mf	Ca++ mg/l	Cl- mg/l	Sand %	Solids %	Mudtype
921029	12 1/4"	2126.0	1.30	24.0	21.0	4/	8.7	/1.6	560	78000		13.0	KCL MUD
921030	12 1/4"	2318.0	1.30	25.0	22.0	4/6	8.7	.1/1.4	580	79000		14.5	KCL MUD
921031	12 1/4"	2480.0	1.30	25.0	19.0	4/5	8.6	/1.5	400	81000		16.0	KCL MUD
921101	12 1/4"	2526.0	1.30	25.0	20.0	4/5	8.6	/1.2	350	80000		16.0	KCL MUD
921102	12 1/4"	2588.0	1.30	26.0	21.0	3/5	8.6	/1.2	400	81000		16.0	KCL MUD
921103	12 1/4"	2696.0	1.30	26.0	21.0	4/6	8.3	/1.2	420	81000		16.0	KCL MUD
921104	12 1/4"	2764.0	1.30	26.0	24.0	4/7	8.2	/1.1	330	80000		16.0	KCL MUD
921105	12 1/4"	2840.0	1.30	26.0	23.0	4/7	8.1	/1.0	350	78000		17.0	KCL MUD
921106	12 1/4"	2895.0	1.30	21.0	21.0	4/7	8.0	/1.1	390	79000		17.0	KCL MUD
921107	12 1/4"	3072.0	1.30	24.0	20.0	4/9	7.8	/1.0	380	76000		17.0	KCL MUD
921108	12 1/4"	3161.0	1.35	25.0	21.0	4/8	7.8	/1.0	340	74000		18.5	KCL MUD
921109	12 1/4"	3222.0	1.35	25.0	22.0	4/8	7.9	/1.8	360	73000		18.5	KCL MUD
921110	12 1/4"	3249.0	1.35	25.0	21.0	4/8	7.8	/1.6	360	71000		18.5	KCL MUD
921111	12 1/4"	3345.0	1.38	26.0	23.0	4/9	7.9	/1.7	360	74000		17.5	KCL MUD
921112	12 1/4"	3378.0	1.44	28.0	23.0	5/10	7.9	/1.7	360	74000		19.0	KCL MUD
921113	12 1/4"	3378.0	1.44	28.0	23.0	5/10	7.9	/1.7	360	74000		19.0	KCL MUD
921114	12 1/4"	3378.0	1.44	27.0	24.0	4/9	7.8	/1.7	360	74000		19.0	KCL MUD
921115	12 1/4"	3378.0	1.44	27.0	24.0	4/9	7.8	/1.7	360	74000		19.0	KCL MUD
921116	8 1/2"	3378.0	1.44	28.0	29.0	5/11	8.6	/1.7	400	75000		19.0	KCL MUD
921117	8 1/2"	3883.0	1.44	30.0	22.0	4/12	9.9	.1/1.9	380	75000		19.0	KCL MUD
921118	8 1/2"	3423.0	1.48	27.0	23.0	4/14	9.7	.1/2.0	480	85000	.5	21.0	KCL MUD
921119	8 1/2"	3559.0	1.50	28.0	22.0	4/15	9.1	.1/2.0	400	79000	.5	22.0	KCL MUD
921120	8 1/2"	3745.0	1.56	28.0	17.0	4/15	9.1	2.0/2.1	440	76000	.4	24.0	KCL MUD
921121	8 1/2"	3882.0	1.56	27.0	18.0	4/14	8.8	/2.1	440	76000	.3	24.0	KCL MUD
921122	8 1/2"	3950.0	1.56	29.0	16.0	4/15	8.6	/1.8	400	77000	.3	24.0	KCL MUD
921123	8 1/2"	4005.0	1.56	29.0	13.0	4/10	9.0	.1/1.7	320	76000	.3	24.0	KCL MUD
921124	8 1/2"	4180.0	1.56	30.0	16.0	3/12	9.4	.2/2.2	200	75000	.3	24.0	KCL MUD

Well: 7219/8-1S

Date	Hole size	Hole depth	Mud weight	PV	YP	Gel strength	pH	Alkalinity Pf /Mf	Ca++ mg/l	Cl- mg/l	Sand %	Solids, %	Mudtype
921125	8 1/2"	4235.0	1.56	29.0	16.0	3/13	9.3	.2/2.2	160	73000	.3	24.0	KCL MUD
921126	8 1/2"	4270.0	1.62	30.0	15.0	3/12	9.3	.2/2.3	160	72000	.5	26.0	KCL MUD
921127	8 1/2"	4278.0	1.62	27.0	12.0	4/10	9.2	.2/2.0	180	70000	.3	26.0	KCL MUD
921128	8 1/2"	4371.0	1.65	30.0	10.0	3/9	9.3	.3/2.1	160	70000	.4	26.0	KCL MUD
921129	8 1/2"	4455.0	1.68	30.0	12.0	3/13	9.5	.3/2.3	170	72000	.4	26.0	KCL MUD
921130	8 1/2"	4460.0	1.68	30.0	10.0	3/13	9.6	.3/2.3	170	72000	.4	27.0	KCL MUD
921201	8 1/2"	4460.0	1.70	31.0	11.0	3/10	9.5	.2/2.2	170	71000	.4	27.5	KCL MUD
921202	8 1/2"	4460.0	1.70	27.0	11.0	3/8	9.1	.3/2.4	200	70000	.4	27.5	KCL MUD
921203	8 1/2"	4460.0	1.70	26.0	10.0	3/8	9.1	.2/2.2	200	70000	.4	27.5	KCL MUD
921204	8 1/2"	4460.0	1.68	25.0	16.0	3/8	9.7	.2/2.2	200	73000	.4	27.0	KCL MUD
921205	8 1/2"	4460.0	1.68	25.0	16.0	3/8	9.6	.3/2.1	200	73000	.4	27.0	KCL MUD
921206	8 1/2"	4460.0	1.68	29.0	15.0	3/10	9.1	.4/2.4	260	69000	.4	27.0	KCL MUD
921207	8 1/2"	4460.0	1.68	28.0	16.0	3/10	9.1	.4/2.4	260	69000	.4	27.0	KCL MUD
921208	8 1/2"	4533.0	1.68	26.0	14.0	3/7	9.5	.3/2.3	240	70000	.3	27.0	KCL MUD
921209	8 1/2"	4549.0	1.68	27.0	14.0	3/8	9.6	.3/2.2	200	73000	.3	27.0	KCL MUD
921210	8 1/2"	4550.0	1.68	26.0	9.0	3/10	9.6	.3/2.2	200	70000	.3	27.0	KCL MUD
921211	8 1/2"	4551.0	1.68	25.0	11.0	3/8	9.5	.4/2.4	180	72000	.3	27.0	KCL MUD
921212	8 1/2"	4553.0	1.68	24.0	12.0	3/6	9.7	.3/2.4	180	72000	.3	27.0	KCL MUD
921213	8 1/2"	4579.0	1.70	27.0	12.0	3/7	9.3	.4/2.5	180	72000	.3	27.5	KCL MUD
921214	8 1/2"	4600.0	1.70	23.0	11.0	3/6	9.8	.5/2.8	200	71000	.3	27.5	KCL MUD
921215	8 1/2"	4611.5	1.70	25.0	12.0	3/6	9.4	.4/2.5	200	70000	.3	27.5	KCL MUD
921216	8 1/2"	4611.5	1.70	25.0	12.0	3/6	9.4	.4/2.5	200	70000	.3	27.5	KCL MUD
921217	8 1/2"	4611.5	1.70	23.0	13.0	3/7	9.6	.4/2.5	200	70000	.3	27.5	KCL MUD
921218	P&A	4611.5	1.70	24.0	11.0	3/14	9.7	1.1/5.0	240	70000		27.5	KCL MUD
921219	P&A	4611.5	1.44	10.0	13.0	3/7	10.8	.7/1.9	200	37000			KCL MUD
921220	P&A	4611.5	1.12	9.0	10.0	3/6	12.0	/					KCL MUD
921221	P&A					/		/					KCL MUD

Date	Hole size	Hole depth	Mud weight	PV	YP	Gel strength	pH	Alkalinity Pf /Mf	Ca++ mg/l	Cl- mg/l	Sand %	Solids %	Mudtype
921222	P&A					/		/					KCL MUD
921223	P&A					/		/					KCL MUD
921224	P&A					/		/					KCL MUD
921225	P&A					/		/					KCL MUD
921226	P&A					/		/					KCL MUD

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SAGA PETROLEUM A/S

6.2.2

MUD MATERIALS USED

Materials	Unit	36" Hole	26" Hole	17 1/2" Hole	12 1/4" Hole	8 1/2" Hole	Total
Anco 208	ltr	-	-	42025	19282	3382	64689
Ancoresin	kg	-	-	-	-	3575	3575
Ancotemp	kg	-	-	-	-	6530	6530
Antisol FL 30	25 kg	-	-	145	35	40	220
BARITE	M	252	238	123	183	348	1144
BENTONITE	M	86	108	-	-	-	194
BICARBONATE	50 kg	-	-	-	24	67	91
Bentonite	kg	-	-	-	2350	-	2350
Citric Acid	25 kg	-	-	-	40	80	120
Defoamer	200 l	-	-	2475	1425	200	4100
KCL - brine	m3	-	-	240	206	115	561
KCl	kg	-	-	21875	5325	8000	35200
KCl brine w/Pro	m3	-	-	624	-	-	624
LIME	40 k	165	500	-	20	1420	2105
Lightin	kg	-	-	-	-	725	725
PHPA (Polyacryl	25 kg	-	-	194	69	26	289
Prempac EX	25 kg	-	-	14075	174	23	14272
Propac	200 l	-	-	1872	-	-	1872
SODA ASH	50 k	6	10	10	1	2	29
Silicone Defoam	ltr	-	-	-	850	1150	2000
Thermopol	kg	-	-	-	-	3500	3500
XCD polymer	25 kg	-	-	72	46	48	166

Table 6.2.2 Mud Materials Used

ADDRESS KJELLER Box 40, N-2007 Kjeller, Norway TELEPHONE +47 6 806000 TELEX 74 573 energ n TELEFAX +47 6 815553		HALDEN N-1751 Halden, Norway +47 9 183100 76 335 energ n		AVAILABILITY Private Confidential	
REPORT TYPE	REPORT NO. IFE/KR/F-93/046		DATE 1993-03-08		
	REPORT TITLE VITRINITE REFLECTANCE WELL 7219/8-1S OFFSHORE NORWAY		DATE OF LAST REV.		
			REV. NO.		
	CLIENT Saga Petroleum		NUMBER OF PAGES		
CLIENT REF. Per Erling Johansen		NUMBER OF ISSUES 7			
SUMMARY <div style="text-align: center;"> <p>BA-93-959-1</p> <p>23 MAY 1993</p> </div>				DISTRIBUTION Saga Petroleum (3) Throndsen, T Aasgaard, K File (2)	
KEYWORDS					
NAME		DATE		SIGNATURE	
PREPARED BY Kristine Aasgaard		1993-03-08		<i>Kristine Aasgaard</i>	
REVIEWED BY Torbjorn Throndsen		1993-03-08		<i>Torbjorn Throndsen</i>	
APPROVED BY Henning Qvale		1993-03-08		<i>Henning Qvale</i>	

Table 1. Vitrinite reflectance well 7219/8-1S

Sample code	Sample depth	Sample type	Sample lithology	Pop. no.	Vitrinite reflectance			Sample quality	Preparation
IFE	mRKB				%Rm	± std	N		
SA 898	590	swc	clst	1	0.16	0.03	12	----o	Bulk
				2	0.32	0.06	46		
SA 899	690	swc	clst	1	0.24	0.03	27	--o-o	Bulk
				2	0.38	0.05	14		
SA 900	880	swc	clst	1	0.35	0.06	28	--o --	Bulk
SA 941	1050	cut	clst	1	0.38	0.04	55	ooo --	HF
SA 901	1105	swc	clst	1	0.36	0.02	10	--o-o	Bulk
SA 942	1160	cut	clst	1	0.44	0.07	43	-+----	HF
SA 902	1210	swc	clst	1	0.35	0.04	22	-----	Bulk
SA 903	1300	swc	clst	1	0.30	0.06	2	---- --	Bulk
				2	0.41	0.01	2		
SA 943	1370	cut	clst	1	0.36	0.02	9	-o--+	HF
				2	0.47	0.04	19		
SA 904	1435	swc	clst	1	0.33		1	-----	Bulk
				2	0.42	0.04	4		
SA 944	1480	cut	clst	1	0.46	0.04	34	-+--+	HF
SA 905	1510	swc	clst	1	0.55	0.15	18	-----	Bulk
SA 945	1560	cut	clst	1	0.49	0.06	33	-+--+	HF
SA 906	1610	swc	clst	1	0.35	0.02	5	-oo --	Bulk
				2	0.49	0.07	22		
SA 907	1700	swc	clst	1	0.48	0.05	31	-oo --	Bulk
SA 946	1760	cut	clst	1	0.51	0.08	42	-+ --±	HF
SA 908	1820	swc	clst	1	0.58	0.06	25	-oo--	Bulk
SA 947	1860	cut	clst	1	0.61	0.06	42	-+o-+	HF
SA 909	1910	swc	clst	1	0.60	0.05	16	-oo --	Bulk
SA 948	1960	cut	clst	1	0.61	0.08	52	-o--+	HF
SA 910	2000	swc	clst	1	0.69	0.06	12	-oo--	Bulk
SA 949	2050	cut	clst	1	0.63	0.08	38	-o--±	HF
SA 911	2105	swc	clst	1	0.76	0.05	9	-oo --	Bulk
SA 912	2190	swc	clst	1	0.79	0.06	18	-+o--	Bulk
SA 950	2250	cut	clst	1	0.68	0.06	33	-o---	HF
SA 951	2305	cut	clst	1	0.73	0.05	26	-o--±	HF
SA 913	2365	swc	clst	1	0.62	0.02	8	-+o--	Bulk
				2	0.75	0.03	20		
SA 952	2490	cut	clst	1	0.57	0.07	8	-o--±	HF
				2	0.75	0.04	18		
SA 914	2560	swc	clst	1	0.66	0.02	3	-+o--	Bulk
				2	0.85	0.05	15		
SA 953	2607	cut	clst	1	0.72	0.05	12	-o--±	HF
				2	0.87	0.04	35		
SA 915	2630	swc	clst	1	0.75	0.03	11	---	Bulk
SA 954	2691	cut	clst	1	0.89	0.18	48	-oo±	HF
SA 916	2740	swc	clst	1	0.75	0.02	11	---	Bulk
SA 955	2799	cut	clst	1	0.80	0.05	16	oo--±	HF
SA 917	2845	swc	clst/slst	1	0.74	0.03	8	oo---	Bulk
				2	0.91	0.06	29		

Table 1. Vitrinite reflectance well 7219/8-1S

SA 956	2901	cut	clst	1	0.91	0.06	21	oo--±	HF
SA 918	2950	swc	clst	1	0.82	0.09	60	oo-oo	Bulk
SA 919	3040	swc	clst	1	0.62	0.08	17	oo----	Bulk
				2	0.96	0.07	40		
SA 957	3099	cut	clst	1	0.76	0.1	15	o----±	HF
				2	1.02	0.06	21		
SA 920	3145	swc	clst	1	0.93	0.08	38	oo----	Bulk
SA 958	3195	cut	clst	1	1.10	0.11	38	oo----	HF
SA 921	3225	swc	clst	1	0.86	0.02	4	oo----	Bulk
				2	1.03	0.05	33		
SA 959	3303	cut	clst	1	1.12	0.1	35	ooo--	HF
SA 922	3350	swc	clst	1	1.00	0.02	4	-+o--	Bulk
				2	1.21	0.12	39		
SA 923	3440	swc	clst	1	1.15	0.05	30	-oo--ST	Bulk
SA 924	3475	swc	clst	1	0.85	0.09	9	-oo--	Bulk
				2	1.27	0.1	16		
SA 925	3510	swc	clst	1	0.82	0.08	11	-oo--ST	Bulk
				2	1.23	0.13	28		
SA 926	3600	swc	clst	1	1.45	0.14	53	-oo--ST	Bulk
SA 927	3670	swc	clst	1	1.27	0.14	24	-----ST	Bulk
SA 928	3720	swc	clst	1	1.44	0.17	40	-++-±	Bulk
SA 929	3760	swc	clst	1	1.35	0.12	29	-oo--	Bulk
SA 960	3819	cut	clst	1	1.47	0.18	100	ooo-±	HF
SA 930	3880	swc	clst	1	1.38	0.11	28	-oo----	Bulk
SA 931	3940	swc	clst	1	1.45	0.11	10	-oo--	Bulk
				2	1.87	0.06	26		
SA 961	3981	cut	clst	1	1.46	0.07	23	-oo-±	HF
SA 932	4025	swc	clst	1	1.51	0.13	16	-oo--	Bulk
				2	1.87	0.06	18		
SA 933	4070	swc	clst	1	1.48	0.09	6	_____	Bulk
				2	1.75	0.07	9		
SA 934	4130	swc	clst	1	1.55	0.11	5	_____	Bulk
				2	2.06	0.17	44		
SA 935	4177	swc	clst	1	1.48	0.16	3	-oo-±	Bulk
				2	1.93	0.1	27		
SA 936	4225	swc	clst	1	1.58	0.08	5	ooo-±	Bulk
				2	2.04	0.18	42		
SA 962	4272	cut	clst	1	2.00	0.29	51	-oo-±	HF
SA 937	4325	swc	cist/coal	1	2.34	0.14	47	ooo- +	Bulk
SA 938	4380	swc	clst	1	2.01	0.16	39	_____	Bulk
SA 939	4465	swc	clst	1	2.56	0.22	38	-+o--	Bulk
SA 940	4510	swc	clst	1	1.97	0.05	8	-oo--	Bulk
				2	2.42	0.14	37		
SA 963	4557	cut	slst	1	2.69	0.49	50	-oo-±	HF
SA 964	4596	cut	slst	1	2.72	0.25	50	-o----	HF

Legend to table 1.

LEGEND

cut : cuttings sample **clst**: claystone
swc : sidewall core sample **slst**: siltstone
core: core sample lst : limestone

Rm : mean random reflectance
Std: standard deviation
N1/N2 : number of vitrinite readings/total number of readings

M.A.: Lignitic mud additive
ST. : Oil staining/bitumen impregnation (reduces reflectivity)

CODE FOR DATA QUALITY

The sample quality is characterized by five items as follows:

ooooo

1 : abundance of vitrinite
2 : identification of vitrinite
3 : type of vitrinite
4 : particle size
5: particle surface quality

+ : may give a too high vitrinite reflectance value
o : has no effect on the resulting vitrinite reflectance
- : may give a too low vitrinite reflectance value

An ideal sample is characterized as follows: ooooo



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INTRODUCTION

The scope of this report is to present **geochemical** data for well 7219/8-1S. The objective of analysis was to produce data to identify petroleum source rocks, hydrocarbon accumulations and maturity profiles in the well section.

Unfortunately, all samples were significantly affected by mud contamination and intervals selected for solvent extraction proved to be of poor quality. Consequently, no advanced geochemistry (I.E. gas chromatography or gas chromatography / mass spectrometry) was carried out. A full analytical program and totals for samples analysed can be seen in table 1, following this section.

Ditch cuttings were received in washed and dried form (15/2/93) and in geochemical cans (12/2/93). The washed and dried cuttings (1020 - 4596 m) were in 5 meter intervals at the top of the well and changed to a 3 meter spacing below 2520m. The geochemical cans (1020 - 4593 m) were in 10 meter intervals at the top of the well and changed to 9 meter spacings below 2520m. **Again**, please refer to the following table for a comprehensive listing of all samples analysed.

ANALYTICAL PROGRAM (Table 1)

Well	Nation	Sample Name	Upper Depth	Lower Depth	Sample Type	Headspace Gas	Oil/Grease Ratio	Gas Test Oper	Clean up extraction	* C	Rack Eval	Sci	Qu rebarive	CPLO
7219/8-1S	NOR	93007-300	1495.0	1500.0	CUT					*	*			
7219/8-1S	NOR	93007-301	1505.0	1510.0	CUT						*			
7219/8-1S	NOR	93007-302	1515.0	1520.0	CUT						*			
7219/8-1S	NOR	93007-303	1525.0	1530.0	CUT						*			
7219/8-1S	NOR	93007-304	1535.0	1540.0	CUT					*	*			
7219/8-1S	NOR	93007-305	1545.0	1550.0	CUT						*			
7219/8-1S	NOR	93007-306	1555.0	1560.0	CUT						*			
7219/8-1S	NOR	93007-307	1565.0	1570.0	CUT						*			
7219/8-1S	NOR	93007-308	1575.0	1580.0	CUT					*	*			
7219/8-1S	NOR	93007-309	1585.0	1590.0	CUT						*			
7219/8-1S	NOR	93007-310	1595.0	1600.0	CUT						*			
7219/8-1S	NOR	93007-311	1605.0	1610.0	CUT						*			
7219/8-1S	NOR	93007-312	1625.0	1630.0	CUT					*	*			
7219/8-1S	NOR	93007-313	1635.0	1640.0	CUT						*			
7219/8-1S	NOR	93007-314	1645.0	1650.0	CUT						*			
7219/8-1S	NOR	93007-315	1655.0	1660.0	CUT						*			
7219/8-1S	NOR	93007-316	1665.0	1670.0	CUT					*	*			
7219/8-1S	NOR	93007-317	1675.0	1680.0	CUT						*			
7219/8-1S	NOR	93007-318	1685.0	1690.0	CUT						*			
7219/8-1S	NOR	93007-319	1695.0	1700.0	CUT						*			
7219/8-1S	NOR	93007-320	1705.0	1710.0	CUT					*	*			
7219/8-1S	NOR	93007-321	1715.0	1720.0	CUT						*			
7219/8-1S	NOR	93007-322	1725.0	1730.0	CUT						*			
7219/8-1S	NOR	93007-323	1735.0	1740.0	CUT						*			
7219/8-1S	NOR	93007-324	1740.0	1750.0	CUT					*	*			
7219/8-1S	NOR	93007-576	2140.0	2150.0	CUT					*	*			
7219/8-1S	NOR	93007-577	2160.0	2170.0	CUT					*	*			
7219/8-1S	NOR	93007-578	2180.0	2190.0	CUT					*	*			
7219/8-1S	NOR	93B253	2195.0	2200.0	CUT						*			
7219/8-1S	NOR	93007-579	2200.0	2210.0	CUT					*	*			
7219/8-1S	NOR	93007-580	2220.0	2230.0	CUT					*	*			
7219/8-1S	NOR	93007-581	2240.0	2250.0	CUT					*	*			
7219/8-1S	NOR	93007-582	2260.0	2270.0	CUT					*	*			
7219/8-1S	NOR	93007-583	2280.0	2290.0	CUT					*	*			
7219/8-1S	NOR	93B254	2290.0	2295.0	CUT						*			
7219/8-1S	NOR	93007-1	2290.0	2300.0	CUT	*	*				*			
7219/8-1S	NOR	93007-2	2300.0	2310.0	CUT	+	#			*	*			
7219/8-1S	NOR	93007-3	2310.0	2320.0	CUT	*	*			*	*			
7219/8-1S	NOR	93007-4	2320.0	2330.0	CUT	*	*			*	*			
7219/8-1S	NOR	93007-5	2330.0	2340.0	CUT	*	*			*	*			
7219/8-1S	NOR	93007-6	2340.0	2350.0	CUT	*	*			*	*			
7219/8-1S	NOR	93007-7	2350.0	2360.0	CUT	*	+			*	*			
7219/8-1S	NOR	93007-8	2360.0	2370.0	CUT	*	*			*	*			
7219/8-1S	NOR	93007-9	2370.0	2380.0	CUT	*	*			*	*			
7219/8-1S	NOR	93007-10	2380.0	2390.0	CUT	*	*	*		*	*		*	*
7219/8-1S	NOR	93007-11	2390.0	2400.0	CUT	*	*	*		*	*		*	*
7219/8-1S	NOR	93B255	2395.0	2400.0	CUT						*			
7219/8-1S	NOR	93007-12	2400.0	2410.0	CUT	*	*			*	*		*	*

ANALYTICAL PROGRAM (Table 1)

Well	Nation	Sample Name	Upper Depth	Lower Depth	Sample Type	Deuterium	Deuterium	Gas Isotopes	Gas up extraction	Rock Eval	%	« * « Reaction	M 1
7219/8-1S	NOR	93007-13	2410.0	2420.0	CUT	*	*						»
7219/8-1S	NOR	93007-14	2420.0	2430.0	CUT	*	*		*	*		«	*
7219/8-1S	NOR	93007-15	2430.0	2440.0	CUT								
7219/8-1S	NOR	93007-16	2440.0	2450.0	CUT	*	*						
7219/8-1S	NOR	93007-17	2450.0	2460.0	CUT	*	*						
7219/8-1S	NOR	93007-18	2460.0	2470.0	CUT	*	*		*	*			
7219/8-1S	NOR	93007-19	2470.0	2480.0	CUT	*	*						
7219/8-1S	NOR	93007-20	2480.0	2490.0	CUT	*	*						
7219/8-1S	NOR	93007-21	2490.0	2500.0	CUT	*	*						
7219/8-1S	NOR	93B256	2495.0	2500.0	CUT	*	*				*		
7219/8-1S	NOR	93007-22	2500.0	2510.0	CUT	*	*						
7219/8-1S	NOR	93007-23	2510.0	2520.0	CUT	*	*						
7219/8-1S	NOR	93007-24	2520.0	2529.0	CUT	*	*		*	*			
7219/8-1S	NOR	93007-25	2529.0	2538.0	CUT	*	*						
7219/8-1S	NOR	93007-26	2541.0	2550.0	CUT	*	*						
7219/8-1S	NOR	93007-27	2547.0	2556.0	CUT	*	*					»	*
7219/8-1S	NOR	93007-28	2556.0	2565.0	CUT	*	*					*	*
7219/8-1S	NOR	93007-29	2565.0	2574.0	CUT	*	*		*	*		*	»
7219/8-1S	NOR	93007-30	2574.0	2583.0	CUT	*	*					*	*
7219/8-1S	NOR	93007-31	2583.0	2592.0	CUT	*	*					*	»
7219/8-1S	NOR	93B257	2595.0	2598.0	CUT	*	*				*		*
7219/8-1S	NOR	93007-32	2592.0	2601.0	CUT	*	*					*	*
7219/8-1S	NOR	93007-33	2601.0	2610.0	CUT	*	*					*	*
7219/8-1S	NOR	93007-34	2610.0	2619.0	CUT	*	*					*	*
7219/8-1S	NOR	93007-35	2619.0	2628.0	CUT	*	*		*	*		*	*
7219/8-1S	NOR	93007-36	2628.0	2637.0	CUT	*	*					*	*
7219/8-1S	NOR	93007-37	2637.0	2646.0	CUT	*	*					*	*
7219/8-1S	NOR	93007-38	2646.0	2655.0	CUT	*	*					*	*
7219/8-1S	NOR	93007-39	2655.0	2664.0	CUT	*	*		*	*		*	*
7219/8-1S	NOR	93007-40	2664.0	2673.0	CUT	*	*					*	*
7219/8-1S	NOR	93007-41	2673.0	2682.0	CUT	*	*					*	*
7219/8-1S	NOR	93007-42	2682.0	2691.0	CUT	*	*		*	*		*	*
7219/8-1S	NOR	93007-43	2691.0	2700.0	CUT	*	*					*	*
7219/8-1S	NOR	93B258	2697.0	2700.0	CUT	*	*					*	*
7219/8-1S	NOR	93007-44	2700.0	2709.0	CUT	*	*					*	*
7219/8-1S	NOR	93007-45	2709.0	2718.0	CUT	*	*		*	*		*	*
7219/8-1S	NOR	93007-46	2718.0	2727.0	CUT	*	*		*	*		*	*
7219/8-1S	NOR	93007-47	2727.0	2736.0	CUT	*	*		*	*		*	*
7219/8-1S	NOR	93007-48	2736.0	2745.0	CUT	*	*		*	*		*	*
7219/8-1S	NOR	93007-49	2745.0	2754.0	CUT	*	*		*	*		*	*
7219/8-1S	NOR	93007-50	2754.0	2763.0	CUT	*	*		*	*		*	*
7219/8-1S	NOR	93007-51	2763.0	2772.0	CUT	*	*		*	*		*	*
7219/8-1S	NOR	93007-52	2772.0	2781.0	CUT	*	*		*	*		*	*
7219/8-1S	NOR	93007-53	2781.0	2790.0	CUT	*	*		*	*		*	*
7219/8-1S	NOR	93007-54	2790.0	2799.0	CUT	*	*		*	*		*	*
7219/8-1S	NOR	93B259	2799.0	2802.0	CUT	*	*		*	*		*	*
7219/8-1S	NOR	93007-55	2799.0	2808.0	CUT	*	*		*	*		*	*
7219/8-1S	NOR	93007-56	2808.0	2817.0	CUT	*	*		*	*		*	*

ANALYTICAL PROGRAM (Table 1)

Well	Nation	Sample Name	Upper Depth	Lower Depth	Sample Type	Headspace Gas	Oxidized Gas	Gas A—OD as	Clean % extra test	* C	R ₀ K —	SCI	Quantitative — c Ion	NPLC
7219/8-1S	NOR	93007-57	2817.0	2826.0	CUT	*	*			*	*			
7219/8-1S	NOR	93007-58	2826.0	2835.0	CUT	*	*							
7219/8-1S	NOR	93007-59	2835.0	2844.0	CUT	*	*			*	*			
7219/8-1S	NOR	93007-60	2844.0	2853.0	CUT	*	*							
7219/8-1S	NOR	93007-61	2853.0	2862.0	CUT	*	*			*	*			
7219/8-1S	NOR	93007-62	2862.0	2871.0	CUT	*	*							
7219/8-1S	NOR	93007-63	2871.0	2880.0	CUT	*	*			*	*			
7219/8-1S	NOR	93007-64	2880.0	2889.0	CUT	*	*							
7219/8-1S	NOR	93007-65	2889.0	2898.0	CUT	*	*			*	*			
7219/8-1S	NOR	93B260	2901.0	2904.0	CUT									
7219/8-1S	NOR	93007-66	2898.0	2907.0	CUT	*	*							
7219/8-1S	NOR	93007-67	2907.0	2916.0	CUT	*	*			*	*			
7219/8-1S	NOR	93007-68	2916.0	2925.0	CUT	*	*							
7219/8-1S	NOR	93007-69	2925.0	2934.0	CUT	*	*			*	*			
7219/8-1S	NOR	93007-70	2934.0	2943.0	CUT	*	*							
7219/8-1S	NOR	93007-71	2943.0	2952.0	CUT	*	*			*	*			
7219/8-1S	NOR	93007-72	2952.0	2961.0	CUT	*	*							
7219/8-1S	NOR	93007-73	2961.0	2970.0	CUT	*	*			*	*			
7219/8-1S	NOR	93007-74	2970.0	2979.0	CUT	*	*							
7219/8-1S	NOR	93007-75	2979.0	2988.0	CUT	*	*			*	*			
7219/8-1S	NOR	93007-76	2988.0	2997.0	CUT	*	*							
7219/8-1S	NOR	93B261	2997.0	3000.0	CUT									
7219/8-1S	NOR	93007-77	2997.0	3006.0	CUT	*	*			*	*			
7219/8-1S	NOR	93007-78	3006.0	3015.0	CUT	*	*							
7219/8-1S	NOR	93007-79	3015.0	3024.0	CUT	*	*			*	*			
7219/8-1S	NOR	93007-80	3024.0	3033.0	CUT	+	*							
7219/8-1S	NOR	93007-81	3033.0	3042.0	CUT	*	*							
7219/8-1S	NOR	93007-82	3042.0	3051.0	CUT	*	*			*	*			
7219/8-1S	NOR	93007-83	3051.0	3060.0	CUT	*	*							
7219/8-1S	NOR	93007-84	3060.0	3069.0	CUT	+	*			*	*			
7219/8-1S	NOR	93007-85	3069.0	3078.0	CUT	*	*							
7219/8-1S	NOR	93007-86	3078.0	3087.0	CUT	*	*			*	*			
7219/8-1S	NOR	93007-87	3087.0	3096.0	CUT	*	*							
7219/8-1S	NOR	93B262	3093.0	3096.0	CUT									
7219/8-1S	NOR	93007-88	3096.0	3105.0	CUT	#	*			*	*			
7219/8-1S	NOR	93007-88A	3105.0	3114.0	CUT	*	*							
7219/8-1S	NOR	93007-89	3114.0	3123.0	CUT	*	*							
7219/8-1S	NOR	93007-90	3123.0	3132.0	CUT	*	*			*	*			
7219/8-1S	NOR	93007-91	3132.0	3141.0	CUT	*	*							
7219/8-1S	NOR	93007-92	3141.0	3150.0	CUT	*	*			*	*			
7219/8-1S	NOR	93007-93	3150.0	3159.0	CUT	*	*							
7219/8-1S	NOR	93007-94	3159.0	3168.0	CUT	*	*			*	*			
7219/8-1S	NOR	93007-95	3168.0	3177.0	CUT	*	*							
7219/8-1S	NOR	93007-96	3177.0	3186.0	CUT	*	*			*	*			
7219/8-1S	NOR	93007-97	3186.0	3195.0	CUT	*	*							
7219/8-1S	NOR	93B263	3198.0	3201.0	CUT									
7219/8-1S	NOR	93007-98	3195.0	3204.0	CUT	*	*			*	*			
7219/8-1S	NOR	93007-99	3204.0	3213.0	CUT	*	*							

ANALYTICAL PROGRAM (Table 1)

	Nation	Sample ID	Upper Depth	Lower Depth	Sample Type	Gas	CO2	CH4	H2	H2S	Other	Extraction	M PL
7219/8-1S	NOR	93007-100	3222.0	3222.0	CUT	*	*						
7219/8-1S	NOR	93007-101	3222.0	3231.0	CUT	*	*			*	*		
7219/8-1S	NOR	93007-102	3231.0	3240.0	CUT	*	*						
7219/8-1S	NOR	93007-103	3240.0	3249.0	CUT	*	*						
7219/8-1S	NOR	93007-104	3249.0	3258.0	CUT	*	*						
7219/8-1S	NOR	93007-105	3258.0	3267.0	CUT	*	*						
7219/8-1S	NOR	93007-106	3267.0	3276.0	CUT	*	*						
7219/8-1S	NOR	93007-107	3276.0	3285.0	CUT	*	*						
7219/8-1S	NOR	93007-108	3285.0	3294.0	CUT	*	*						
7219/8-1S	NOR	93B264	3297.0	3300.0	CUT							*	
7219/8-1S	NOR	93007-109	3294.0	3303.0	CUT	*	*						
7219/8-1S	NOR	93007-110	3303.0	3312.0	CUT	*	*			*	*		
7219/8-1S	NOR	93007-111	3312.0	3321.0	CUT	*	*						
7219/8-1S	NOR	93007-112	3321.0	3330.0	CUT	*	*			*	*		
7219/8-1S	NOR	93007-113	3330.0	3339.0	CUT	*	*						
7219/8-1S	NOR	93007-114	3339.0	3348.0	CUT	*	*			*	*		
7219/8-1S	NOR	93007-115	3348.0	3357.0	CUT	*	*						
7219/8-1S	NOR	93007-116	3357.0	3366.0	CUT	*	*			*	*		
7219/8-1S	NOR	93007-118	3375.0	3384.0	CUT	*	*			*	*		
7219/8-1S	NOR	93007-119	3384.0	3393.0	CUT	*	*						
7219/8-1S	NOR	93B265	3396.0	3399.0	CUT							*	
7219/8-1S	NOR	93007-120	3393.0	3402.0	CUT	*	*						
7219/8-1S	NOR	93007-121	3402.0	3411.0	CUT	*	*			*	*		
7219/8-1S	NOR	93007-122	3411.0	3420.0	CUT	*	*						
7219/8-1S	NOR	93007-123	3420.0	3429.0	CUT	*	*			*	*		
7219/8-1S	NOR	93007-124	3429.0	3438.0	CUT	*	*						
7219/8-1S	NOR	93007-125	3438.0	3447.0	CUT	*	*			*	*		
7219/8-1S	NOR	93007-125X	3438.0	3447.0	SE CUT	*	*			*	*	*	
7219/8-1S	NOR	93B266	3444.0	3447.0	CUT							*	
7219/8-1S	NOR	93007-126	3447.0	3456.0	CUT	*	*			*	#		
7219/8-1S	NOR	93007-127	3456.0	3465.0	CUT	*	*			*	*		
7219/8-1S	NOR	93007-128	3465.0	3474.0	CUT	*	*			*	*		
7219/8-1S	NOR	93007-129	3474.0	3483.0	CUT	*	*			*	*		
7219/8-1S	NOR	93007-130	3483.0	3492.0	CUT	*	*			*	*		
7219/8-1S	NOR	93007-131	3492.0	3501.0	CUT	*	*			*	*		
7219/8-1S	NOR	93B267	3498.0	3501.0	CUT							*	
7219/8-1S	NOR	93007-132	3501.0	3510.0	CUT	*	*			*	*		
7219/8-1S	NOR	93007-133	3510.0	3519.0	CUT	*	*			*	*		
7219/8-1S	NOR	93007-134X	3519.0	3528.0	SE CUT	*	*			*	*	*	
7219/8-1S	NOR	93007-134	3519.0	3528.0	CUT	*	*			*	*	*	
7219/8-1S	NOR	93007-135	3528.0	3537.0	CUT	*	*			*	*	*	
7219/8-1S	NOR	93007-136	3537.0	3546.0	CUT	*	*			*	*		
7219/8-1S	NOR	93B268	3547.0	3550.0	CUT							*	
7219/8-1S	NOR	93007-137	3546.0	3555.0	CUT	*	*			*	*		
7219/8-1S	NOR	93007-138	3555.0	3564.0	CUT	*	*			*	*		
7219/8-1S	NOR	93007-139	3564.0	3573.0	CUT	*	*			*	*		
7219/8-1S	NOR	93007-140	3573.0	3582.0	CUT	*	*			*	*		
7219/8-1S	NOR	93007-141	3582.0	3591.0	CUT	*	*			*	*		

ANALYTICAL PROGRAM (Table 1)

Well	Nation	Sample Name	Upper Depth*	Lower Depth	Sample Type	Handspace Gas	O ₂ and Gas	Gas Isotopes	CO ₂ %	CO ₂ / CH ₄ Ratio	Rock	SO ₄	Quantitative	NPLC
7219/8-1S	NOR	93007-142	3591.0	3600.0	CUT	*								
7219/8-1S	NOR	93B269	3597.0	3600.0	CUT							*		
7219/8-1S	NOR	93007-143	3600.0	3609.0	CUT	*								
7219/8-1S	NOR	93007-144	3609.0	3618.0	CUT	*								
7219/8-1S	NOR	93007-144X	3609.0	3618.0	SE CUT									
7219/8-1S	NOR	93007-145	3618.0	3627.0	CUT	*								
7219/8-1S	NOR	93007-146	3627.0	3636.0	CUT	*								
7219/8-1S	NOR	93007-147	3636.0	3645.0	CUT	*								
7219/8-1S	NOR	93B270	3648.0	3651.0	CUT									
7219/8-1S	NOR	93007-148	3645.0	3654.0	CUT	*								
7219/8-1S	NOR	93007-149	3654.0	3663.0	CUT	*								
7219/8-1S	NOR	93007-150	3663.0	3672.0	CUT	*								
7219/8-1S	NOR	93007-151	3672.0	3681.0	CUT	*								
7219/8-1S	NOR	93007-152	3681.0	3690.0	CUT	*								
7219/8-1S	NOR	93007-153	3690.0	3699.0	CUT	»								
7219/8-1S	NOR	93B271	3696.0	3699.0	CUT									
7219/8-1S	NOR	93007-154	3699.0	3708.0	CUT	*								
7219/8-1S	NOR	93007-154X	3699.0	3708.0	SE CUT									
7219/8-1S	NOR	93007-155	3708.0	3717.0	CUT	*								
7219/8-1S	NOR	93007-156	3717.0	3726.0	CUT	*								
7219/8-1S	NOR	93007-157	3726.0	3735.0	CUT	#								
7219/8-1S	NOR	93007-158	3735.0	3744.0	CUT	*								
7219/8-1S	NOR	93B272	3747.0	3750.0	CUT									
7219/8-1S	NOR	93007-159	3744.0	3753.0	CUT	*								
7219/8-1S	NOR	93007-160	3753.0	3762.0	CUT	*								
7219/8-1S	NOR	93007-161	3762.0	3771.0	CUT	*								
7219/8-1S	NOR	93007-162	3771.0	3780.0	CUT	*								
7219/8-1S	NOR	93007-163	3780.0	3789.0	CUT	*								
7219/8-1S	NOR	93007-164X	3789.0	3798.0	SE CUT									
7219/8-1S	NOR	93007-164	3789.0	3798.0	CUT	*								
7219/8-1S	NOR	93B273	3795.0	3798.0	CUT									
7219/8-1S	NOR	93007-165	3798.0	3807.0	CUT	*								
7219/8-1S	NOR	93007-166	3807.0	3816.0	CUT	*								
7219/8-1S	NOR	93007-167	3816.0	3825.0	CUT	*								
7219/8-1S	NOR	93007-168	3825.0	3834.0	CUT	*								
7219/8-1S	NOR	93007-169	3834.0	3843.0	CUT	»								
7219/8-1S	NOR	93B274	3848.0	3851.0	CUT									
7219/8-1S	NOR	93007-170	3843.0	3852.0	CUT	*								
7219/8-1S	NOR	93007-171	3852.0	3861.0	CUT	*								
7219/8-1S	NOR	93007-172	3861.0	3870.0	CUT	*								
7219/8-1S	NOR	93007-173	3870.0	3879.0	CUT	*								
7219/8-1S	NOR	93007-174	3879.0	3888.0	CUT	*								
7219/8-1S	NOR	93007-174X	3879.0	3888.0	SE CUT									
7219/8-1S	NOR	93007-175	3888.0	3897.0	CUT	*								
7219/8-1S	NOR	93B275	3897.0	3900.0	CUT									
7219/8-1S	NOR	93007-176	3897.0	3906.0	CUT	*								
7219/8-1S	NOR	93007-177	3906.0	3915.0	CUT	*								
7219/8-1S	NOR	93007-178	3915.0	3924.0	CUT	*								

ANALYTICAL PROGRAM (Table 1)

Well	Station	Sample Name	Upper Depth	Lower Depth	Sample Type	Headspace Gas	Oxidize d.c.m	Gas Isotopes	Clco nuxtracti on	—	Rock Eval	DU (anti vs ENT) section	OP LC
7219/8-1S	NOR	93007-179	3924.0	3933.0	CUT	*	*				»		
7219/8-1S	NOR	93007-180	3933.0	3942.0	CUT	*	»			•	*	»	
7219/8-1S	NOR	93B276	3945.0	3948.0	CUT								
7219/8-1S	NOR	93007-181	3942.0	3951.0	CUT	*	*			*	*		
7219/8-1S	NOR	93007-182	3951.0	3960.0	CUT	«	*			*	«		
7219/8-1S	NOR	93007-183	3960.0	3969.0	CUT	*	*			«	*		
7219/8-1S	NOR	93007-184	3969.0	3978.0	CUT	»	*			*	*		
7219/8-1S	NOR	93007-184X	3969.0	3978.0	SE CUT			•		•	*		
7219/8-1S	NOR	93007-185	3978.0	3987.0	CUT	*	•			•	*		
7219/8-1S	NOR	93007-186	3987.0	3996.0	CUT	•	*			*	*		
7219/8-1S	NOR	93B277	3996.0	3999.0	CUT							•	
7219/8-1S	NOR	93007-187	3996.0	4005.0	CUT	*	*			•	»		
7219/8-1S	NOR	93007-188	4005.0	4014.0	CUT	*	*			»	*		
7219/8-1S	NOR	93007-189	4014.0	4023.0	CUT	»	*			*	*		
7219/8-1S	NOR	93007-190	4023.0	4032.0	CUT	*	*			*	*		
7219/8-1S	NOR	93007-191	4032.0	4041.0	CUT	»	*			*	*		
7219/8-1S	NOR	93007-192	4041.0	4050.0	CUT	»	*			*	*		
7219/8-1S	NOR	93B278	4050.0	4053.0	CUT							*	
7219/8-1S	NOR	93007-193	4050.0	4059.0	CUT	*	»			*	*		
7219/8-1S	NOR	93007-194	4059.0	4068.0	CUT	*	*			*	*		
7219/8-1S	NOR	93007-194X	4059.0	4068.0	SE CUT			*		*	»		
7219/8-1S	NOR	93007-195	4068.0	4077.0	CUT	*	*			»	*		
7219/8-1S	NOR	93007-196	4077.0	4086.0	CUT	*	*			*	*		
7219/8-1S	NOR	93007-197	4086.0	4095.0	CUT					*	*		
7219/8-1S	NOR	93B279	4098.0	4101.0	CUT							*	
7219/8-1S	NOR	93007-198	4095.0	4104.0	CUT	*	»			*	*		
7219/8-1S	NOR	93007-199	4104.0	4113.0	CUT	*	*			*	*		
7219/8-1S	NOR	93007-200	4113.0	4122.0	CUT	*	*			»	*		
7219/8-1S	NOR	93007-201	4122.0	4131.0	CUT	•	*			*	*		
7219/8-1S	NOR	93007-202	4131.0	4140.0	CUT	•	*			»	*		
7219/8-1S	NOR	93007-203	4140.0	4149.0	CUT	*	*			*	*		
7219/8-1S	NOR	93B280	4146.0	4149.0	CUT							»	
7219/8-1S	NOR	93007-204	4149.0	4158.0	CUT	*	»			•	*	»	
7219/8-1S	NOR	93007-204X	4149.0	4158.0	SE CUT			*		*	*		
7219/8-1S	NOR	93007-205	4158.0	4167.0	CUT	*	»			*	*		
7219/8-1S	NOR	93007-206	4167.0	4176.0	CUT	•	*			*	»		
7219/8-1S	NOR	93007-207	4176.0	4185.0	CUT	•	*			*	*		
7219/8-1S	NOR	93007-208	4185.0	4194.0	CUT	*	*			•	»		
7219/8-1S	NOR	93B281	4197.0	4200.0	CUT							*	
7219/8-1S	NOR	93007-209	4194.0	4203.0	CUT	*	*			»	*		
7219/8-1S	NOR	93007-210	4203.0	4212.0	CUT	»	*			•	*		
7219/8-1S	NOR	93007-211	4212.0	4221.0	CUT	»	*			»	*		
7219/8-1S	NOR	93007-212	4221.0	4230.0	CUT	*	*			*	*		
7219/8-1S	NOR	93007-213	4230.0	4239.0	CUT	»	*			*	»		
7219/8-1S	NOR	93007-214	4239.0	4248.0	CUT	»	*			»	*		
7219/8-1S	NOR	93007-214X	4239.0	4248.0	SE CUT					«	*		
7219/8-1S	NOR	93B282	4248.0	4251.0	CUT			*		*	*	»	
7219/8-1S	NOR	93007-215	4248.0	4257.0	CUT	*	*			*	*		

ANALYTICAL PROGRAM (Table 1)

Well	Nation	Sample Name	Upper Depth	Lower Depth	Sample Type	Head of G 3	G 3 side	Open tip 4	TOP	Rock Ev of	SCI	Du 4 E South	M PIC	
7219/8-1S	NOR	93007-216	4257.0	4266.0	CUT	*	*		»	*				
7219/8-1S	NOR	93007-217	4278.0	4287.0	CUT	*	*		*	*				
7219/8-1S	NOR	93007-218	4287.0	4296.0	CUT	»	»		*	*				
7219/8-1S	NOR	93B283	4296.0	4299.0	CUT						*			
7219/8-1S	NOR	93007-219	4296.0	4305.0	CUT	*	*		*	*				
7219/8-1S	NOR	93007-220	4305.0	4314.0	CUT	*	*		*	*				
7219/8-1S	NOR	93007-221	4314.0	4323.0	CUT	«	*		*	*				
7219/8-1S	NOR	93007-222	4323.0	4332.0	CUT	*	*		*	*				
7219/8-1S	NOR	93007-223	4332.0	4341.0	CUT	*	*		»	*				
7219/8-1S	NOR	93007-224X	4341.0	4350.0	SE CUT			*	*	*				
7219/8-1S	NOR	93007-224	4341.0	4350.0	CUT	*	*		»	*				
7219/8-1S	NOR	93B284	4347.0	4350.0	CUT						*			
7219/8-1S	NOR	93007-225	4350.0	4359.0	CUT	»	*		*	*				
7219/8-1S	NOR	93007-226	4359.0	4368.0	CUT	*	*		»	*				
7219/8-1S	NOR	93007-227	4368.0	4377.0	CUT	*	*		*	*				
7219/8-1S	NOR	93007-228	4377.0	4386.0	CUT	*	*		*	*				
7219/8-1S	NOR	93007-229	4386.0	4395.0	CUT	*	*		*	*				
7219/8-1S	NOR	93B285	4398.0	4401.0	CUT									
7219/8-1S	NOR	93007-230	4395.0	4404.0	CUT	*	*	*	*	*				
7219/8-1S	NOR	93007-231	4404.0	4413.0	CUT	*	*		*	*				
7219/8-1S	NOR	93007-232	4413.0	4422.0	CUT	*	*		*	*				
7219/8-1S	NOR	93007-233	4422.0	4431.0	CUT	*	*		*	*				
7219/8-1S	NOR	93007-234	4431.0	4440.0	CUT	*	*		*	*				
7219/8-1S	NOR	93007-234X	4431.0	4440.0	SE CUT				*	*				
7219/8-1S	NOR	93007-235	4440.0	4449.0	CUT	*	*		*	*				
7219/8-1S	NOR	93B286	4446.0	4449.0	CUT				*	*				
7219/8-1S	NOR	93007-236	4449.0	4458.0	CUT	*	»		*	*				
7219/8-1S	NOR	93007-237	4451.0	4460.0	CUT	*	*		*	*				
7219/8-1S	NOR	93007-238	4461.0	4470.0	CUT	*	*		*	»				
7219/8-1S	NOR	93007-239	4470.0	4479.0	CUT	*	*		*	*				
7219/8-1S	NOR	93007-240	4479.0	4488.0	CUT	*	*		*	»				
7219/8-1S	NOR	93007-241	4488.0	4497.0	CUT	*	*	*	*	»				
7219/8-1S	NOR	93B287	4494.0	4497.0	CUT									
7219/8-1S	NOR	93007-242	4497.0	4506.0	CUT				*	*				
7219/8-1S	NOR	93007-243	4506.0	4515.0	CUT	*	*		*	»				
7219/8-1S	NOR	93007-244	4515.0	4524.0	CUT	*	*		*	*				
7219/8-1S	NOR	93007-244X	4515.0	4524.0	SE CUT				*	*				
7219/8-1S	NOR	93007-245	4524.0	4533.0	CUT	*	*							
7219/8-1S	NOR	93007-246	4533.0	4542.0	CUT	*	*							
7219/8-1S	NOR	93007-247	4542.0	4551.0	CUT	*	*							
7219/8-1S	NOR	93B288	4548.0	4551.0	CUT									
7219/8-1S	NOR	93007-248	4551.0	4560.0	CUT	*	*							
7219/8-1S	NOR	93007-249	4560.0	4569.0	CUT	*	*							
7219/8-1S	NOR	93007-250	4569.0	4578.0	CUT	*	*							
7219/8-1S	NOR	93007-251	4578.0	4587.0	CUT	*	*							
7219/8-1S	NOR	93007-252	4584.0	4593.0	CUT	*	*							
7219/8-1S	NOR	93B289	4590.0	4593.0	CUT									
TOTAL ANALYSES						252	252	19	13	218	272	37	18	18

ANALYTICAL METHODS ADOPTED

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	NPD method	Isothermal 110C	1/8" SS packed
Occluded gas	Perkin Elmer Sigma 3	NPD method	Isothermal 110C	1/8" SS packed
Gas Isotope analysis	subcontracted and run at Saga's request by IFE			
Quantitative Extraction	Soxhtec Tecator 1043	NPD method	Boil 1 hr, rinse 2hrs (DCM:MeOH, 7:1)	
MPLC	Kontron Uvikon	NPD method		

* - 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 that prescribed by NPD 1993 guidelines. Furthermore, both these methods are NAMAS accredited, please refer to the following two pages for further details regarding methods for which Simon Laboratories are accredited and the value of NAMAS accreditation.

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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- Staff
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New Zealand (TELARC)	Norway (DNVQA)	Sweden (SMO)
Switzerland (SMO)		

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

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 latroscan
- 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 filter plugging point
- WC/010** Wear metals in lubricants by **ICP**
- WC/011** Determination of API gravity of small samples by Archimedes Bridges

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Well	Nation	Sample Name	Upper Depth	Lower Depth	Sample Type	C1 uL/Kg	C2 uL/Kg	C3 uL/Kg	iC4 uL/Kg	nC4 uL/Kg	C5+ uL/Kg	SUM C1-C4	SUM C2-C4	Wetness %	iC4 nC4
7219/8-1S	NOR	93007-1	2290	2300	Cuttings	1645	843	652	124	90	96	3354	1710	50.97	1.38
7219/8-1S	NOR	93007-2	2300	2310	Cuttings	1628	870	682	126	103	99	3409	1781	52.24	1.23
7219/8-1S	NOR	93007-3	2310	2320	Cuttings	4536	2409	1762	304	247	302	9258	4722	51.00	1.23
7219/8-1S	NOR	93007-4	2320	2330	Cuttings	512	243	179	32	25	20	990	479	48.33	1.29
7219/8-1S	NOR	93007-5	2330	2340	Cuttings	1467	697	498	93	70	85	2825	1357	48.06	1.32
7219/8-1S	NOR	93007-6	2340	2350	Cuttings	762	355	226	49	34	42	1425	664	46.56	1.45
7219/8-1S	NOR	93007-7	2350	2360	Cuttings	1522	759	513	98	74	98	2965	1443	48.67	1.32
7219/8-1S	NOR	93007-8	2360	2370	Cuttings	5396	3686	2763	428	394	670	12668	7271	57.40	1.09
7219/8-1S	NOR	93007-9	2370	2380	Cuttings	1474	821	526	84	76	125	2981	1507	50.56	1.10
7219/8-1S	NOR	93007-10	2380	2390	Cuttings	1002	474	362	61	58	90	1958	956	48.83	1.04
7219/8-1S	NOR	93007-11	2390	2400	Cuttings	1448	678	623	104	110	228	2962	1515	51.13	0.95
7219/8-1S	NOR	93007-12	2400	2410	Cuttings	2491	1123	958	168	172	358	4911	2421	49.29	0.97
7219/8-1S	NOR	93007-13	2410	2420	Cuttings	7380	3154	2742	491	487	963	14254	6874	48.23	1.01
7219/8-1S	NOR	93007-14	2420	2430	Cuttings	5188	2478	2068	380	364	678	10478	5290	50.49	1.04
7219/8-1S	NOR	93007-15	2430	2440	Cuttings	2890	1443	846	118	98	189	5394	2504	46.43	1.20
7219/8-1S	NOR	93007-16	2440	2450	Cuttings	4512	2678	1644	229	304	3053	9367	4855	51.83	0.75
7219/8-1S	NOR	93007-17	2450	2460	Cuttings	1060	626	408	56	42	58	2193	1133	51.67	1.32
7219/8-1S	NOR	93007-18	2460	2470	Cuttings	669	400	277	36	97	124	1478	809	54.73	0.37
7219/8-1S	NOR	93007-19	2470	2480	Cuttings	1693	901	677	85	69	83	3426	1732	50.57	1.24
7219/8-1S	NOR	93007-20	2480	2490	Cuttings	2455	1688	1873	177	203	211	6395	3941	61.62	0.87
7219/8-1S	NOR	93007-21	2490	2500	Cuttings	1922	417	726	53	100	210	3219	1296	40.27	0.53
7219/8-1S	NOR	93007-22	2500	2510	Cuttings	2690	1645	2042	213	251	413	6842	4151	60.68	0.85
7219/8-1S	NOR	93007-23	2510	2520	Cuttings	1783	414	1092	104	168	222	3562	1778	49.93	0.62
7219/8-1S	NOR	93007-24	2520	2529	Cuttings	1622	816	1518	137	218	250	4311	2689	62.38	0.63
7219/8-1S	NOR	93007-25	2529	2538	Cuttings	3867	736	2376	203	395	371	7576	3709	48.96	0.51
7219/8-1S	NOR	93007-26	2541	2550	Cuttings	1031	478	755	60	100	52	2425	1394	57.47	0.60
7219/8-1S	NOR	93007-27	2547	2556	Cuttings	5306	3101	4956	411	698	662	14472	9166	63.34	0.59
7219/8-1S	NOR	93007-28	2556	2565	Cuttings	205	153	321	34	62	47	775	570	73.52	0.55
7219/8-1S	NOR	93007-29	2565	2574	Cuttings	4005	853	1215	129	264	232	6466	2461	38.06	0.49
7219/8-1S	NOR	93007-30	2574	2583	Cuttings	1480	822	1544	200	320	297	4365	2885	66.10	0.63
7219/8-1S	NOR	93007-31	2583	2592	Cuttings	741	408	1373	165	342	397	3029	2287	75.53	0.48
7219/8-1S	NOR	93007-32	2592	2601	Cuttings	1866	388	908	121	268	306	3550	1684	47.44	0.45

Well	Nation	Sample Name	Upper Depth	Lower Depth	Sample Type	C1 uL/Kg	C2 uL/Kg	C3 uL/Kg	iC4 uL/Kg	nC4 uL/Kg	C5+ uL/Kg	SUM C1-C4	SUM C2-C4	Wetness %	iC4 nC4
7219/8-1S	NOR	93007-33	2601	2610	Cuttings	6475	1548	1220	187	266	431	9696	3221	33.22	0.70
7219/8-1S	NOR	93007-34	2610	2619	Cuttings	8755	4598	6309	1548	2286	3514	23495	14740	62.74	0.68
7219/8-1S	NOR	93007-35	2619	2628	Cuttings	6605	3391	3928	666	934	1126	15524	8919	57.46	0.71
7219/8-1S	NOR	93007-36	2628	2637	Cuttings	6209	3685	4174	716	967	1304	15751	9543	60.58	0.74
7219/8-1S	NOR	93007-37	2637	2646	Cuttings	4487	2919	3025	451	555	687	11437	6950	60.77	0.81
7219/8-1S	NOR	93007-38	2646	2655	Cuttings	7632	5223	5828	1003	1253	1684	20938	13306	63.55	0.80
7219/8-1S	NOR	93007-39	2655	2664	Cuttings	4941	3041	3122	470	544	696	12118	7177	59.23	0.86
7219/8-1S	NOR	93007-40	2664	2673	Cuttings	5104	2180	2785	412	533	524	11014	5910	53.66	0.77
7219/8-1S	NOR	93007-41	2673	2682	Cuttings	10613	5546	4985	670	734	896	22548	11935	52.93	0.91
7219/8-1S	NOR	93007-42	2682	2691	Cuttings	3396	2036	1765	284	286	267	7767	4371	56.27	1.00
7219/8-1S	NOR	93007-43	2691	2700	Cuttings	2912	2392	2611	318	417	709	8650	5737	66.33	0.76
7219/8-1S	NOR	93007-44	2700	2709	Cuttings	2714	849	1192	140	212	321	5106	2393	46.86	0.66
7219/8-1S	NOR	93007-45	2709	2718	Cuttings	4146	2275	2894	360	505	879	10180	6034	59.27	0.71
7219/8-1S	NOR	93007-46	2718	2727	Cuttings	1511	973	1034	138	169	231	3826	2314	60.50	0.82
7219/8-1S	NOR	93007-47	2727	2736	Cuttings	3598	2569	3339	487	629	1195	10621	7023	66.12	0.77
7219/8-1S	NOR	93007-48	2736	2745	Cuttings	1758	565	734	120	177	245	3355	1597	47.59	0.68
7219/8-1S	NOR	93007-49	2745	2754	Cuttings	3516	1577	1892	256	386	656	7626	4110	53.90	0.66
7219/8-1S	NOR	93007-50	2754	2763	Cuttings	3066	1700	1706	260	314	424	7046	3981	56.49	0.83
7219/8-1S	NOR	93007-51	2763	2772	Cuttings	2452	703	784	80	139	217	4158	1706	41.03	0.58
7219/8-1S	NOR	93007-52	2772	2781	Cuttings	5337	3183	2533	361	397	468	11812	6475	54.82	0.91
7219/8-1S	NOR	93007-53	2781	2790	Cuttings	4062	2646	2299	288	351	504	9647	5585	57.89	0.82
7219/8-1S	NOR	93007-54	2790	2799	Cuttings	7939	5230	4910	689	877	1262	19646	11706	59.59	0.79
7219/8-1S	NOR	93007-55	2799	2808	Cuttings	1608	1078	1426	273	329	503	4715	3107	65.90	0.83
7219/8-1S	NOR	93007-56	2808	2817	Cuttings	13785	7979	9220	1625	2062	2641	34671	20886	60.24	0.79
7219/8-1S	NOR	93007-57	2817	2826	Cuttings	6365	3319	4230	678	822	835	15414	9049	58.71	0.83
7219/8-1S	NOR	93007-58	2826	2835	Cuttings	5998	3318	4770	886	1221	1314	16192	10194	62.96	0.73
7219/8-1S	NOR	93007-59	2835	2844	Cuttings	13181	6057	11344	1944	3156	3885	35682	22501	63.06	0.62
7219/8-1S	NOR	93007-60	2844	2853	Cuttings	3842	1454	2920	535	1042	2212	9792	5951	60.77	0.51
7219/8-1S	NOR	93007-61	2853	2862	Cuttings	5077	1931	3001	647	1013	1698	11668	6591	56.49	0.64
7219/8-1S	NOR	93007-62	2862	2871	Cuttings	7683	5218	9342	2187	3467	4766	27897	20214	72.46	0.63
7219/8-1S	NOR	93007-63	2871	2880	Cuttings	8021	4004	7316	1377	2369	3085	23087	15066	65.26	0.58
7219/8-1S	NOR	93007-64	2880	2889	Cuttings	10111	5216	7756	1523	2567	3404	27172	17061	62.79	0.59

Well	Nation	Sample Name	Upper Depth	Lower Depth	Sample Type	C1 uL/Kg	C2 uL/Kg	C3 uL/Kg	iC4 uL/Kg	nC4 uL/Kg	C5+ uL/Kg	SUM C1-C4	SUM C2-C4	Wetness %	iC4 nC4
7219/8-1S	NOR	93007-65	2889	2898	Cuttings	9035	5200	7889	1618	2561	3032	26303	17268	65.65	0.63
7219/8-1S	NOR	93007-66	2898	2907	Cuttings	8092	4267	6396	1554	2368	3085	22677	14585	64.32	0.66
7219/8-1S	NOR	93007-67	2907	2916	Cuttings	5317	2750	5108	1160	1876	2487	16212	10895	67.20	0.62
7219/8-1S	NOR	93007-68	2916	2925	Cuttings	11791	5153	7399	1646	2808	3223	28797	17006	59.05	0.59
7219/8-1S	NOR	93007-69	2925	2934	Cuttings	7668	4269	7182	2114	3325	2985	24558	16890	68.78	0.64
7219/8-1S	NOR	93007-70	2934	2943	Cuttings	9561	5079	7926	2389	3164	2773	28120	18559	66.00	0.76
7219/8-1S	NOR	93007-71	2943	2952	Cuttings	9780	5941	9577	3368	4944	5606	33610	23830	70.90	0.68
7219/8-1S	NOR	93007-72	2952	2961	Cuttings	4965	3111	5746	2035	2648	3073	18504	13540	73.17	0.77
7219/8-1S	NOR	93007-73	2961	2970	Cuttings	6712	3881	6327	2354	3216	3465	22490	15778	70.16	0.73
7219/8-1S	NOR	93007-74	2970	2979	Cuttings	4735	3108	5439	1795	2535	2810	17611	12877	73.12	0.71
7219/8-1S	NOR	93007-75	2979	2988	Cuttings	18553	10860	18436	6443	9644	10300	63937	45383	70.98	0.67
7219/8-1S	NOR	93007-76	2988	2997	Cuttings	4181	2392	4227	1435	1994	1994	14229	10048	70.62	0.72
7219/8-1S	NOR	93007-77	2997	3006	Cuttings	6473	3520	5824	1817	2816	2818	20450	13977	68.35	0.65
7219/8-1S	NOR	93007-78	3006	3015	Cuttings	9934	5523	9184	2615	4078	4076	31335	21401	68.30	0.64
7219/8-1S	NOR	93007-79	3015	3024	Cuttings	12570	5703	8808	1965	3257	3130	32304	19733	61.09	0.60
7219/8-1S	NOR	93007-80	3024	3033	Cuttings	37231	16617	20680	4264	6814	7130	85607	48376	56.51	0.63
7219/8-1S	NOR	93007-81	3033	3042	Cuttings	39986	19910	26347	5243	8520	9363	100006	60020	60.02	0.62
7219/8-1S	NOR	93007-82	3042	3051	Cuttings	7711	3969	5481	1189	1925	2056	20275	12564	61.97	0.62
7219/8-1S	NOR	93007-83	3051	3060	Cuttings	7289	3722	5242	1028	1725	1848	19005	11716	61.65	0.60
7219/8-1S	NOR	93007-84	3060	3069	Cuttings	6611	3421	5194	1158	1924	2204	18308	11697	63.89	0.60
7219/8-1S	NOR	93007-85	3069	3078	Cuttings	6189	2830	3861	781	1349	1598	15010	8821	58.77	0.58
7219/8-1S	NOR	93007-86	3078	3087	Cuttings	4315	2432	3879	972	1584	1881	13182	8868	67.27	0.61
7219/8-1S	NOR	93007-87	3087	3096	Cuttings	7361	3562	5067	1267	2077	2330	19334	11973	61.93	0.61
7219/8-1S	NOR	93007-88	3096	3105	Cuttings	2577	1311	1952	568	815	861	7223	4647	64.33	0.70
7219/8-1S	NOR	93007-88	3105	3114	Cuttings	2580	1470	2071	596	819	904	7536	4956	65.76	0.73
7219/8-1S	NOR	93007-89	3114	3123	Cuttings	5196	3363	5687	1826	2594	2847	18666	13470	72.16	0.70
7219/8-1S	NOR	93007-90	3123	3132	Cuttings	1576	1051	1776	526	754	827	5682	4107	72.27	0.70
7219/8-1S	NOR	93007-91	3132	3141	Cuttings	5644	3362	5466	1229	2026	2385	17727	12083	68.16	0.61
7219/8-1S	NOR	93007-92	3141	3150	Cuttings	5889	3199	4644	1534	2446	3284	17712	11823	66.75	0.63
7219/8-1S	NOR	93007-93	3150	3159	Cuttings	13540	7333	11974	3469	6031	7636	42347	28807	68.03	0.58
7219/8-1S	NOR	93007-94	3159	3168	Cuttings	1894	924	1461	380	666	1038	5326	3431	64.43	0.57
7219/8-1S	NOR	93007-95	3168	3177	Cuttings	2272	1789	2413	599	867	753	7940	5668	71.39	0.69
7219/8-1S	NOR	93007-96	3177	3186	Cuttings	2122	1335	2514	711	1183	1445	7865	5743	73.02	0.60

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HEADSPACE GAS DATA Table 2

Well	Nation	Sample Name	Upper Depth	Lower Depth	Sample Type	C1 uL/Kg	C2 uL/Kg	C3 uL/Kg	iC4 uL/Kg	nC4 uL/Kg	C5+ uL/Kg	SUM C1-C4	SUM C2-C4	Wetness %	iC4 nC4
7219/8-1S	NOR	93007-97	3186	3195	Cuttings	2549	1163	1624	562	789	981	6686	4138	61.88	0.71
7219/8-1S	NOR	93007-98	3195	3204	Cuttings	6806	4257	6354	1652	2540	2084	21609	14803	68.50	0.65
7219/8-1S	NOR	93007-99	3204	3213	Cuttings	7134	5866	10383	2477	4204	4741	30064	22930	76.27	0.59
7219/8-1S	NOR	93007-100	3213	3222	Cuttings	7361	6267	11782	3387	5284	5472	34080	26719	78.40	0.64
7219/8-1S	NOR	93007-101	3222	3231	Cuttings	2907	1979	3966	1076	1881	2229	11809	8901	75.38	0.57
7219/8-1S	NOR	93007-102	3231	3240	Cuttings	4032	2682	5392	2115	3131	4278	17352	13320	76.76	0.68
7219/8-1S	NOR	93007-103	3240	3249	Cuttings	7436	3576	5841	2266	3251	4457	22370	14934	66.76	0.70
7219/8-1S	NOR	93007-104	3249	3258	Cuttings	2060	991	1321	387	559	858	5318	3258	61.26	0.69
7219/8-1S	NOR	93007-105	3258	3267	Cuttings	2976	1654	2240	686	957	1171	8513	5537	65.05	0.72
7219/8-1S	NOR	93007-106	3267	3276	Cuttings	3688	1882	2319	742	992	1211	9622	5935	61.68	0.75
7219/8-1S	NOR	93007-107	3276	3285	Cuttings	8365	3622	3391	1034	1163	1389	17575	9210	52.40	0.89
7219/8-1S	NOR	93007-108	3285	3294	Cuttings	7227	3059	2397	638	752	1031	14074	6846	48.65	0.85
7219/8-1S	NOR	93007-109	3294	3303	Cuttings	9839	4316	3458	915	1098	1420	19626	9787	49.87	0.83
7219/8-1S	NOR	93007-110	3303	3312	Cuttings	7653	3467	2929	837	1057	1420	15942	8289	51.99	0.79
7219/8-1S	NOR	93007-111	3312	3321	Cuttings	3215	1462	1218	286	395	526	6575	3361	51.11	0.72
7219/8-1S	NOR	93007-112	3321	3330	Cuttings	5084	2828	2782	637	961	1421	12291	7208	58.64	0.66
7219/8-1S	NOR	93007-113	3330	3339	Cuttings	5484	3004	3037	773	1126	1581	13424	7940	59.15	0.69
7219/8-1S	NOR	93007-114	3339	3348	Cuttings	5773	3175	3298	788	1224	1794	14257	8484	59.51	0.64
7219/8-1S	NOR	93007-115	3348	3357	Cuttings	5425	2994	3119	743	1126	1545	13408	7982	59.53	0.66
7219/8-1S	NOR	93007-116	3357	3366	Cuttings	5139	3380	3481	937	1423	2049	14359	9221	64.21	0.66
7219/8-1S	NOR	93007-118	3375	3384	Cuttings	2852	1650	1812	574	809	1116	7697	4845	62.95	0.71
7219/8-1S	NOR	93007-119	3384	3393	Cuttings	938	950	1460	411	486	614	4244	3307	77.91	0.85
7219/8-1S	NOR	93007-120	3393	3402	Cuttings	889	916	1439	502	702	938	4448	3559	80.02	0.71
7219/8-1S	NOR	93007-121	3402	3411	Cuttings	7417	5623	7878	2365	3623	4342	26905	19489	72.43	0.65
7219/8-1S	NOR	93007-122	3411	3420	Cuttings	6981	5067	7212	2218	3404	4312	24882	17901	71.94	0.65
7219/8-1S	NOR	93007-123	3420	3429	Cuttings	4581	5582	8120	2415	3719	4817	24416	19836	81.24	0.65
7219/8-1S	NOR	93007-124	3429	3438	Cuttings	4213	4233	5707	1777	2583	2998	18513	14300	77.24	0.69
7219/8-1S	NOR	93007-125	3438	3447	Cuttings	11302	10202	11829	2975	4674	5290	40981	29679	72.42	0.64
7219/8-1S	NOR	93007-126	3447	3456	Cuttings	10934	10872	13204	3393	5360	6548	43763	32829	75.01	0.63
7219/8-1S	NOR	93007-127	3456	3465	Cuttings	15155	13182	16408	5052	7313	8557	57109	41955	73.46	0.69
7219/8-1S	NOR	93007-128	3465	3474	Cuttings	8729	7543	9150	2571	3943	4815	31936	23207	72.67	0.65

HEADSPACE GAS DATA Table 2

Well	Nation	Sample name	Upper Depth	Lower Depth	Sample Type	C1 uL/Kg	C2 uL/Kg	C3 uL/Kg	iC4 uL/Kg	nC4 uL/Kg	C5+ uL/Kg	SUM C1-C4	SUM C2-C4	Wetness %	iC4 nC4
7219/8-1S	NOR	93007-129	3474	3483	Cuttings	7729	5446	5445	1473	2249	2769	22342	14613	65.41	0.66
7219/8-1S	NOR	93007-130	3483	3492	Cuttings	7194	7490	8099	2892	3785	4634	29460	22266	75.58	0.76
7219/8-1S	NOR	93007-131	3492	3501	Cuttings	12586	9681	9105	2588	3625	3418	37585	24999	66.51	0.71
7219/8-1S	NOR	93007-132	3501	3510	Cuttings	8497	7033	6203	1762	2328	2292	25824	17326	67.09	0.76
7219/8-1S	NOR	93007-133	3510	3519	Cuttings	13863	9699	8558	2594	3499	3810	38213	24350	63.72	0.74
7219/8-1S	NOR	93007-134	3519	3528	Cuttings	11835	10598	9876	3145	3911	4281	39364	27530	69.94	0.80
7219/8-1S	NOR	93007-135	3528	3537	Cuttings	12285	10936	9288	2707	3467	3470	38683	26398	68.24	0.78
7219/8-1S	NOR	93007-136	3537	3546	Cuttings	8108	7204	6456	2060	2428	2597	26256	18148	69.12	0.85
7219/8-1S	NOR	93007-137	3546	3555	Cuttings	24699	19629	16140	4268	5000	5710	69736	45037	64.58	0.85
7219/8-1S	NOR	93007-138	3555	3564	Cuttings	10637	7427	5880	1701	1883	2156	27528	16891	61.36	0.90
7219/8-1S	NOR	93007-139	3564	3573	Cuttings	7921	6233	4897	1351	1424	1627	21826	13905	63.71	0.95
7219/8-1S	NOR	93007-140	3573	3582	Cuttings	5469	4304	3479	1137	1099	1302	15487	10019	64.69	1.04
7219/8-1S	NOR	93007-141	3582	3591	Cuttings	5373	4095	3183	875	926	1070	14452	9079	62.82	0.94
7219/8-1S	NOR	93007-142	3591	3600	Cuttings	5015	4228	3144	920	828	1106	14135	9120	64.52	1.11
7219/8-1S	NOR	93007-143	3600	3609	Cuttings	6161	4774	3139	758	666	954	15498	9337	60.24	1.14
7219/8-1S	NOR	93007-144	3609	3618	Cuttings	7339	5005	3009	855	662	894	16869	9530	56.49	1.29
7219/8-1S	NOR	93007-145	3618	3627	Cuttings	17242	13204	7072	1945	1328	1667	40791	23549	57.73	1.46
7219/8-1S	NOR	93007-146	3627	3636	Cuttings	7256	5917	3805	1149	890	1125	19018	11761	61.84	1.29
7219/8-1S	NOR	93007-147	3636	3645	Cuttings	23695	17088	9759	2743	1912	2514	55198	31502	57.07	1.43
7219/8-1S	NOR	93007-148	3645	3654	Cuttings	10440	8261	5067	1776	1258	1532	18541	8101	43.69	1.41
7219/8-1S	NOR	93007-149	3654	3663	Cuttings	15701	13650	8428	2904	1901	2305	42584	26884	63.13	1.53
7219/8-1S	NOR	93007-150	3663	3672	Cuttings	15226	11831	7721	3047	1975	2487	39800	24574	61.74	1.54
7219/8-1S	NOR	93007-151	3672	3681	Cuttings	14499	11468	8281	3457	2220	2937	39925	25426	63.68	1.56
7219/8-1S	NOR	93007-152	3681	3690	Cuttings	8472	7781	4859	2115	1143	1630	24370	15898	65.24	1.85
7219/8-1S	NOR	93007-153	3690	3699	Cuttings	8275	7628	4734	1992	1033	1399	23662	15387	65.03	1.93
7219/8-1S	NOR	93007-154	3699	3708	Cuttings	9447	9087	5727	2518	1366	1919	28146	18698	66.43	1.84
7219/8-1S	NOR	93007-155	3708	3717	Cuttings	9543	8278	5019	2061	1071	1469	25972	16429	63.26	1.93
7219/8-1S	NOR	93007-156	3717	3726	Cuttings	10092	9889	6060	2474	1399	1856	29915	19822	66.26	1.77
7219/8-1S	NOR	93007-157	3726	3735	Cuttings	14668	11569	6907	2707	1412	1993	37262	22594	60.64	1.92
7219/8-1S	NOR	93007-158	3735	3744	Cuttings	7152	6413	4052	1855	990	1417	20464	13312	65.05	1.87
7219/8-1S	NOR	93007-159	3744	3753	Cuttings	10069	9435	5957	2695	1275	1918	29431	19362	65.79	2.11
7219/8-1S	NOR	93007-160	3753	3762	Cuttings	14077	10774	5747	2463	1019	1376	34081	20003	58.69	2.42

Well	Nation	Sample Name	Upper Depth	Lower Depth	Sample Type	C1 uL/Kg	C2 uL/Kg	C3 uL/Kg	iC4 uL/Kg	nC4 uL/Kg	C5+ uL/Kg	SUM C1-C4	SUM C2-C4	Wetness %	iC4 nC4
7219/8-1S	NOR	93007-161	3762	3771	Cuttings	16949	11946	5918	2325	875	1168	38012	21064	55.41	2.66
7219/8-1S	NOR	93007-162	3771	3780	Cuttings	8329	6296	2966	1127	439	541	19156	10828	56.52	2.57
7219/8-1S	NOR	93007-163	3780	3789	Cuttings	16902	13825	7939	3435	1379	2569	43481	26579	61.13	2.49
7219/8-1S	NOR	93007-164	3789	3798	Cuttings	12515	9126	5152	2684	1029	1463	30505	17991	58.98	2.61
7219/8-1S	NOR	93007-165	3798	3807	Cuttings	14331	11195	7086	3962	1434	2809	38008	23677	62.29	2.76
7219/8-1S	NOR	93007-166	3807	3816	Cuttings	12368	9258	5815	3490	1255	2183	32185	19818	61.57	2.78
7219/8-1S	NOR	93007-167	3816	3825	Cuttings	15622	11340	6627	3850	1171	1841	38610	22988	59.54	3.29
7219/8-1S	NOR	93007-168	3825	3834	Cuttings	6060	4255	2458	1515	472	929	14760	8700	58.94	3.21
7219/8-1S	NOR	93007-169	3834	3843	Cuttings	7544	4570	2304	1386	358	653	16162	8618	53.32	3.87
7219/8-1S	NOR	93007-170	3843	3852	Cuttings	9037	5181	2477	1366	382	737	18442	9405	51.00	3.58
7219/8-1S	NOR	93007-171	3852	3861	Cuttings	3748	2414	1269	687	204	395	8323	4575	54.97	3.37
7219/8-1S	NOR	93007-172	3861	3870	Cuttings	7177	3027	1409	698	210	454	12521	5344	42.68	3.33
7219/8-1S	NOR	93007-173	3870	3879	Cuttings	5860	2497	1045	528	135	265	10066	4206	41.78	3.89
7219/8-1S	NOR	93007-174	3879	3888	Cuttings	5281	2491	958	464	118	203	9313	4032	43.29	3.94
7219/8-1S	NOR	93007-175	3888	3897	Cuttings	5337	3431	1290	609	148	244	10815	5478	50.65	4.12
7219/8-1S	NOR	93007-176	3897	3906	Cuttings	7277	3798	1302	595	157	289	13128	5851	44.57	3.79
7219/8-1S	NOR	93007-177	3906	3915	Cuttings	5829	1409	380	123	40	88	7781	1952	25.09	3.06
7219/8-1S	NOR	93007-178	3915	3924	Cuttings	3172	856	246	75	28	47	4378	1206	27.55	2.66
7219/8-1S	NOR	93007-179	3924	3933	Cuttings	6245	1607	444	123	51	113	8470	2225	26.26	2.38
7219/8-1S	NOR	93007-180	3933	3942	Cuttings	4425	1292	284	67	33	182	6100	1676	27.47	2.03
7219/8-1S	NOR	93007-181	3942	3951	Cuttings	4218	880	370	113	63	133	5643	1425	25.25	1.78
7219/8-1S	NOR	93007-182	3951	3960	Cuttings	4934	1220	361	96	52	84	6663	1730	25.96	1.82
7219/8-1S	NOR	93007-183	3960	3969	Cuttings	5592	1209	296	66	55	66	7218	1626	22.53	1.19
7219/8-1S	NOR	93007-184	3969	3978	Cuttings	4332	1045	269	55	51	60	5753	1421	24.70	1.08
7219/8-1S	NOR	93007-185	3978	3987	Cuttings	3535	948	314	92	50	74	4940	1404	28.43	1.85
7219/8-1S	NOR	93007-186	3987	3996	Cuttings	5307	904	229	40	52	49	6532	1225	18.75	0.76
7219/8-1S	NOR	93007-187	3996	4005	Cuttings	6586	1120	246	43	54	60	8050	1464	18.19	0.80
7219/8-1S	NOR	93007-188	4005	4014	Cuttings	4085	878	202	34	46	38	5245	1160	22.11	0.73
7219/8-1S	NOR	93007-189	4014	4023	Cuttings	6564	1009	205	36	57	57	7869	1306	16.59	0.64
7219/8-1S	NOR	93007-190	4023	4032	Cuttings	3126	533	107	23	27	31	3816	690	18.07	0.84
7219/8-1S	NOR	93007-191	4032	4041	Cuttings	3102	406	59	12	15	15	3594	492	13.69	0.81
7219/8-1S	NOR	93007-192	4041	4050	Cuttings	4927	566	806	13	12	13	6323	1397	22.09	1.14

Well	Nation	Sample Name	Upper Depth	tower Depth	Sample Type	C1 uL/Kg	C2 uL/Kg	C3 uL/Kg	iC4 uL/Kg	nC4 uL/Kg	C5+ uL/Kg	SUM C1-C4	SUM C2-C4	Wetness %	iC4 nC4
7219/8-1S	NOR	93007-193	4050	4059	Cuttings	4652	419	52	12	7	12	5142	489	9.52	1.69
7219/8-1S	NOR	93007-194	4059	4068	Cuttings	3364	408	50	12	5	6	3839	475	12.36	2.31
7219/8-1S	NOR	93007-195	4068	4077	Cuttings	12687	1140	130	34	23	34	14014	1327	9.47	1.48
7219/8-1S	NOR	93007-196	4077	4086	Cuttings	11688	1268	123	31	12	10	13122	1434	10.93	2.58
7219/8-1S	NOR	93007-197	4086	4095	Cuttings	7810	807	113	24	34	34	8788	978	11.13	0.72
7219/8-1S	NOR	93007-198	4095	4104	Cuttings	8316	646	79	15	13	11	9069	752	8.30	1.17
7219/8-1S	NOR	93007-199	4104	4113	Cuttings	11798	776	90	18	25	18	12707	909	7.15	0.73
7219/8-1S	NOR	93007-200	4113	4122	Cuttings	7120	489	59	12	11	9	7692	572	7.44	1.10
7219/8-1S	NOR	93007-201	4122	4131	Cuttings	5910	945	211	37	56	56	7158	1248	17.44	0.66
7219/8-1S	NOR	93007-202	4131	4140	Cuttings	3968	403	54	9	6	2	4441	472	10.63	1.52
7219/8-1S	NOR	93007-203	4140	4149	Cuttings	9870	628	136	21	40	41	10695	825	7.71	0.52
7219/8-1S	NOR	93007-204	4149	4158	Cuttings	24682	991	156	24	33	25	25885	1203	4.65	0.72
7219/8-1S	NOR	93007-205	4158	4167	Cuttings	17481	587	91	15	18	15	18192	710	3.91	0.84
7219/8-1S	NOR	93007-206	4167	4176	Cuttings	20606	848	153	26	26	19	21659	1053	4.86	1.01
7219/8-1S	NOR	93007-207	4176	4185	Cuttings	32442	1026	135	19	18	20	33640	1198	3.56	1.02
7219/8-1S	NOR	93007-208	4185	4194	Cuttings	19881	673	98	14	15	14	20682	801	3.87	0.95
7219/8-1S	NOR	93007-209	4194	4203	Cuttings	25204	713	131	19	21	32	26089	885	3.39	0.92
7219/8-1S	NOR	93007-210	4203	4212	Cuttings	15413	491	91	22	17	24	16034	621	3.88	1.30
7219/8-1S	NOR	93007-211	4212	4221	Cuttings	58642	1484	212	27	29	38	60394	1751	2.90	0.94
7219/8-1S	NOR	93007-212	4221	4230	Cuttings	42178	1086	129	19	16	17	43429	1250	2.88	1.19
7219/8-1S	NOR	93007-213	4230	4239	Cuttings	53007	1356	126	19	14	4	54523	1516	2.78	1.37
7219/8-1S	NOR	93007-214	4239	4248	Cuttings	29437	672	81	13	11	10	30214	777	2.57	1.15
7219/8-1S	NOR	93007-215	4248	4257	Cuttings	59190	1527	199	26	27	35	60969	1779	2.92	0.97
7219/8-1S	NOR	93007-216	4257	4266	Cuttings	69117	1283	129	16	12	12	70557	1440	2.04	1.37
7219/8-1S	NOR	93007-217	4278	4287	Cuttings	33115	541	60	9	8	4	33733	618	1.83	1.15
7219/8-1S	NOR	93007-218	4287	4296	Cuttings	40499	849	105	14	12	10	41479	980	2.36	1.17
7219/8-1S	NOR	93007-219	4296	4305	Cuttings	29898	687	98	13	12	7	30708	810	2.64	1.15
7219/8-1S	NOR	93007-220	4305	4314	Cuttings	27460	586	103	13	14	12	28176	716	2.54	0.89
7219/8-1S	NOR	93007-221	4314	4323	Cuttings	39935	717	99	13	12	7	40776	841	2.06	1.04
7219/8-1S	NOR	93007-222	4323	4332	Cuttings	48061	918	103	14	12	14	49109	1047	2.13	1.15
7219/8-1S	NOR	93007-223	4332	4341	Cuttings	17845	309	45	11	12	30	18221	377	2.07	0.94
7219/8-1S	NOR	93007-224	4341	4350	Cuttings	7922	168	23	5	5	6	8124	202	2.48	1.00

Well	Nation	Sample Name	Upper Depth	Lower Depth	Sample Type	C1 uL/Kg	C2 uL/Kg	C3 uL/Kg	iC4 uL/Kg	nC4 uL/Kg	C5+ uL/Kg	SUM C1--C4	SUM C2--C4	Wetness %	iC4 nC4
7219/8-1S	NOR	93007-225	4350	4359	Cuttings	10515	292	66	12	15	28	10900	384	3.53	0.78
7219/8-1S	NOR	93007-226	4359	4368	Cuttings	8821	262	45	6	12	8	9146	325	3.55	0.54
7219/8-1S	NOR	93007-227	4368	4377	Cuttings	7185	213	51	8	21	18	7477	292	3.91	0.37
7219/8-1S	NOR	93007-228	4377	4386	Cuttings	7609	212	48	7	12	11	7887	279	3.53	0.57
7219/8-1S	NOR	93007-229	4386	4395	Cuttings	8468	251	59	8	25	20	8811	343	3.89	0.32
7219/8-1S	NOR	93007-230	4395	4404	Cuttings	5313	299	112	27	35	37	5785	472	8.16	0.77
7219/8-1S	NOR	93007-231	4404	4413	Cuttings	5597	293	115	27	43	52	6075	478	7.87	0.63
7219/8-1S	NOR	93007-232	4413	4422	Cuttings	4544	323	160	41	45	53	5113	569	11.13	0.91
7219/8-1S	NOR	93007-233	4422	4431	Cuttings	5685	598	386	132	131	178	6931	1247	17.99	1.01
7219/8-1S	NOR	93007-234	4431	4440	Cuttings	2840	942	1238	397	659	1263	6075	3235	53.25	0.60
7219/8-1S	NOR	93007-235	4440	4449	Cuttings	7521	676	416	199	163	252	8975	1454	16.20	1.22
7219/8-1S	NOR	93007-236	4449	4458	Cuttings	2757	350	289	117	99	165	3613	856	23.70	1.18
7219/8-1S	NOR	93007-237	4451	4460	Cuttings	3490	426	357	137	132	327	4542	1052	23.16	1.03
7219/8-1S	NOR	93007-238	4461	4470	Cuttings	3765	752	770	317	350	567	5954	2189	36.76	0.90
7219/8-1S	NOR	93007-239	4470	4479	Cuttings	1941	214	201	81	95	128	2532	590	23.32	0.85
7219/8-1S	NOR	93007-240	4479	4488	Cuttings	4095	305	106	25	32	32	4562	468	10.25	0.79
7219/8-1S	NOR	93007-241	4488	4497	Cuttings	3725	251	80	19	33	31	4107	383	9.32	0.56
7219/8-1S	NOR	93007-242	4497	4506	Cuttings	3068	210	72	12	23	20	3385	317	9.38	0.55
7219/8-1S	NOR	93007-243	4506	4515	Cuttings	2882	162	57	10	16	24	3127	244	7.82	0.65
7219/8-1S	NOR	93007-244	4515	4524	Cuttings	4138	203	70	15	20	22	4446	308	6.92	0.76
7219/8-1S	NOR	93007-245	4524	4533	Cuttings	2726	247	116	42	43	84	3174	448	14.12	0.98
7219/8-1S	NOR	93007-246	4533	4542	Cuttings	3223	212	180	79	80	150	3774	552	14.61	0.98
7219/8-1S	NOR	93007-247	4542	4551	Cuttings	3782	183	164	79	64	113	4272	490	11.47	1.25
7219/8-1S	NOR	93007-248	4551	4560	Cuttings	985	46	18	5	8	18	1062	77	7.22	0.72
7219/8-1S	NOR	93007-249	4560	4569	Cuttings	2138	72	28	9	12	37	2260	122	5.40	0.76
7219/8-1S	NOR	93007-250	4569	4578	Cuttings	1226	64	32	13	14	40	1349	123	9.12	0.89
7219/8-1S	NOR	93007-251	4578	4587	Cuttings	2006	166	66	23	22	48	2283	277	12.12	1.01
7219/8-1S	NOR	93007-252	4584	4593	Cuttings	1544	52	42	21	25	65	1685	140	8.33	0.87

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Table 2

Well	Nation	Sample Name	Upper Depth	Lower Depth	Sample Type	C1 uL/Kg	C2 uL/Kg	C3 uL/Kg	iC4 uL/Kg	nC4 uL/Kg	C5+ uL/Kg	SUM C1-C4	SUM C2-C4	Wetness %	iC4 nC4
7219/8-1S	NOR	93007-1	2290	2300	Cuttings	175	494	1426	132	413	626	2640	2465	93.37	0.32
7219/8-1S	NOR	93007-2	2300	2310	Cuttings	127	472	1357	129	378	664	2462	2335	94.86	0.34
7219/8-1S	NOR	93007-3	2310	2320	Cuttings	100	451	1097	107	299	528	2054	1954	95.15	0.36
7219/8-1S	NOR	93007-4	2320	2330	Cuttings	125	430	1044	119	324	582	2042	1917	93.88	0.37
7219/8-1S	NOR	93007-5	2330	2340	Cuttings	90	483	1039	109	284	546	2005	1915	95.51	0.39
7219/8-1S	NOR	93007-6	2340	2350	Cuttings	70	348	652	72	181	372	1322	1252	94.69	0.40
7219/8-1S	NOR	93007-7	2350	2360	Cuttings	111	678	1389	148	399	957	2725	2613	95.91	0.37
7219/8-1S	NOR	93007-8	2360	2370	Cuttings	78	248	772	80	242	553	1419	1341	94.52	0.33
7219/8-1S	NOR	93007-9	2370	2380	Cuttings	133	490	1187	149	414	1144	2373	2239	94.38	0.36
7219/8-1S	NOR	93007-10	2380	2390	Cuttings	150	386	1257	186	526	1850	2505	2355	94.00	0.35
7219/8-1S	NOR	93007-11	2390	2400	Cuttings	80	241	852	112	340	914	1626	1546	95.08	0.33
7219/8-1S	NOR	93007-12	2400	2410	Cuttings	94	261	916	133	403	1617	1805	1712	94.82	0.33
7219/8-1S	NOR	93007-13	2410	2420	Cuttings	119	284	1020	162	479	2292	2064	1945	94.25	0.34
7219/8-1S	NOR	93007-14	2420	2430	Cuttings	103	456	1110	127	340	1168	2135	2033	95.20	0.37
7219/8-1S	NOR	93007-15	2430	2440	Cuttings	99	587	1117	100	261	727	2163	2064	95.44	0.38
7219/8-1S	NOR	93007-16	2440	2450	Cuttings	82	467	971	78	215	490	1812	1730	95.48	0.36
7219/8-1S	NOR	93007-17	2450	2460	Cuttings	119	534	1382	96	285	447	2416	2297	95.07	0.34
7219/8-1S	NOR	93007-18	2460	2470	Cuttings	177	684	1697	114	310	488	2982	2805	94.08	0.37
7219/8-1S	NOR	93007-19	2470	2480	Cuttings	89	436	1013	66	190	335	1794	1706	95.06	0.35
7219/8-1S	NOR	93007-20	2480	2490	Cuttings	71	113	544	39	130	235	895	825	92.11	0.30
7219/8-1S	NOR	93007-21	2490	2500	Cuttings	54	104	615	46	155	463	974	920	94.41	0.30
7219/8-1S	NOR	93007-22	2500	2510	Cuttings	73	176	786	60	192	494	1287	1213	94.31	0.31
7219/8-1S	NOR	93007-23	2510	2520	Cuttings	77	72	551	42	174	391	916	840	91.61	0.24
7219/8-1S	NOR	93007-24	2520	2529	Cuttings	84	100	670	50	199	425	1103	1019	92.41	0.25
7219/8-1S	NOR	93007-25	2529	2538	Cuttings	112	38	327	29	135	248	641	529	82.49	0.22
7219/8-1S	NOR	93007-26	2541	2550	Cuttings	72	116	869	59	288	395	1403	1331	94.89	0.20
7219/8-1S	NOR	93007-27	2547	2556	Cuttings	70	145	1010	67	350	441	1643	1573	95.74	0.19
7219/8-1S	NOR	93007-28	2556	2565	Cuttings	90	102	809	62	335	522	1398	1308	93.57	0.19
7219/8-1S	NOR	93007-29	2565	2574	Cuttings	57	72	482	46	254	463	911	853	93.69	0.18
7219/8-1S	NOR	93007-30	2574	2583	Cuttings	94	111	827	70	416	711	1518	1423	93.79	0.17
7219/8-1S	NOR	93007-31	2583	2592	Cuttings	88	43	410	43	251	524	835	747	89.47	0.17
7219/8-1S	NOR	93007-32	2592	2601	Cuttings	105	47	288	41	223	628	704	599	85.10	0.19

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Table 3

Well	Nation	Sample Name	Upper Depth	Lower Depth	Sample Type	C1 uL/Kg	C2 uL/Kg	C3 uL/Kg	iC4 uL/Kg	nC4 uL/Kg	C5+ uL/Kg	SUM C1-C4	SUM C2-C4	Wetness %	iC4 nC4
7219/8-1S	NOR	93007-33	2601	2610	Cuttings	650	321	1279	331	1106	4705	3686	3036	82.37	0.30
7219/8-1S	NOR	93007-34	2610	2619	Cuttings	415	433	1971	404	1379	3591	4602	4187	90.98	0.29
7219/8-1S	NOR	93007-35	2619	2628	Cuttings	112	333	1257	174	639	1315	2515	2403	95.53	0.27
7219/8-1S	NOR	93007-36	2628	2637	Cuttings	134	287	1268	141	577	976	2407	2273	94.44	0.24
7219/8-1S	NOR	93007-37	2637	2646	Cuttings	214	3010	2575	1370	947	1835	8116	7902	97.36	0.29
7219/8-1S	NOR	93007-38	2646	2655	Cuttings	381	829	2683	310	1088	2211	5291	4910	92.80	0.29
7219/8-1S	NOR	93007-39	2655	2664	Cuttings	204	824	2472	249	844	1590	4592	4388	95.57	0.29
7219/8-1S	NOR	93007-40	2664	2673	Cuttings	446	620	2211	194	744	1519	4215	3769	89.43	0.26
7219/8-1S	NOR	93007-41	2673	2682	Cuttings	138	1000	2165	167	522	846	3992	3854	96.55	0.32
7219/8-1S	NOR	93007-42	2682	2691	Cuttings	217	1414	2938	229	765	1249	5563	5346	96.11	0.30
7219/8-1S	NOR	93007-43	2691	2700	Cuttings	264	867	2821	217	807	1427	4976	4711	94.69	0.27
7219/8-1S	NOR	93007-44	2700	2709	Cuttings	219	608	1879	159	557	1125	3423	3204	93.61	0.29
7219/8-1S	NOR	93007-45	2709	2718	Cuttings	187	720	2467	207	757	1476	4338	4151	95.68	0.27
7219/8-1S	NOR	93007-46	2718	2727	Cuttings	155	805	2188	192	657	1346	3997	3843	96.13	0.29
7219/8-1S	NOR	93007-47	2727	2736	Cuttings	136	477	1939	184	1428	1498	4164	4028	96.73	0.13
7219/8-1S	NOR	93007-48	2736	2745	Cuttings	177	699	2600	271	1523	2391	5269	5092	96.63	0.18
7219/8-1S	NOR	93007-49	2745	2754	Cuttings	249	2559	2668	247	985	2043	6708	6458	96.28	0.25
7219/8-1S	NOR	93007-50	2754	2763	Cuttings	191	995	2610	231	845	1576	4872	4681	96.09	0.27
7219/8-1S	NOR	93007-51	2763	2772	Cuttings	265	870	2234	204	741	1353	4314	4048	93.85	0.27
7219/8-1S	NOR	93007-52	2772	2781	Cuttings	188	1444	3580	308	1063	1830	6583	6394	97.14	0.29
7219/8-1S	NOR	93007-53	2781	2790	Cuttings	450	1877	4688	445	1604	2986	9064	8614	95.04	0.28
7219/8-1S	NOR	93007-54	2790	2799	Cuttings	234	1166	3602	348	1381	2105	6731	6497	96.53	0.25
7219/8-1S	NOR	93007-55	2799	2808	Cuttings	231	992	3349	401	1543	3264	6516	6285	96.46	0.26
7219/8-1S	NOR	93007-56	2808	2817	Cuttings	226	761	3298	386	1502	2555	6174	5948	96.33	0.26
7219/8-1S	NOR	93007-57	2817	2826	Cuttings	224	449	2976	279	1354	2024	5283	5058	95.75	0.21
7219/8-1S	NOR	93007-58	2826	2835	Cuttings	121	378	2208	337	1176	2319	4221	4100	97.13	0.29
7219/8-1S	NOR	93007-59	2835	2844	Cuttings	280	191	1491	238	1075	3208	3275	2995	91.44	0.22
7219/8-1S	NOR	93007-60	2844	2853	Cuttings	205	89	673	138	554	2515	1660	1455	87.67	0.25
7219/8-1S	NOR	93007-61	2853	2862	Cuttings	227	238	1549	394	1365	4454	3773	3547	93.98	0.29
7219/8-1S	NOR	93007-62	2862	2871	Cuttings	267	389	2946	745	2498	6217	6845	6578	96.10	0.30
7219/8-1S	NOR	93007-63	2871	2880	Cuttings	409	181	1484	395	1454	3728	3923	3514	89.58	0.27
7219/8-1S	NOR	93007-64	2880	2889	Cuttings	453	390	2713	688	2375	5243	6618	6165	93.16	0.29

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Well	Nation	Sample Name	Upper Depth	tower Depth	Sample Type	C1 uL/Kg	C2 uL/Kg	C3 uL/Kg	iC4 uL/Kg	nC4 uL/Kg	C5+ uL/Kg	SUM C1-C4	SUM C2-C4	Wetness %	iC4 nC4
7219/8-1S	NOR	93007-65	2889	2898	Cuttings	366	644	3653	881	2981	6530	8525	8159	95.70	0.30
7219/8-1S	NOR	93007-66	2898	2907	Cuttings	373	526	3063	671	2568	6919	7200	6827	94.82	0.26
7219/8-1S	NOR	93007-67	2907	2916	Cuttings	293	219	1583	472	1670	5485	4238	3945	93.08	0.28
7219/8-1S	NOR	93007-68	2916	2925	Cuttings	350	538	3480	1081	3307	6484	8756	8406	96.00	0.33
7219/8-1S	NOR	93007-69	2925	2934	Cuttings	320	1331	7389	2302	6300	9664	17642	17322	98.19	0.37
7219/8-1S	NOR	93007-70	2934	2943	Cuttings	228	1912	9432	3217	7464	14107	22252	22024	98.97	0.43
7219/8-1S	NOR	93007-71	2943	2952	Cuttings	249	1139	8074	3804	8834	21532	22099	21851	98.88	0.43
7219/8-1S	NOR	93007-72	2952	2961	Cuttings	350	1562	9316	4598	9794	22201	25620	25270	98.64	0.47
7219/8-1S	NOR	93007-73	2961	2970	Cuttings	338	1974	10949	4970	10914	23814	29145	28807	98.84	0.46
7219/8-1S	NOR	93007-74	2970	2979	Cuttings	276	1478	8773	3991	9148	20935	23666	23390	98.83	0.44
7219/8-1S	NOR	93007-75	2979	2988	Cuttings	290	856	5533	2212	5741	11760	14632	14342	98.02	0.39
7219/8-1S	NOR	93007-76	2988	2997	Cuttings	319	842	5294	1858	5119	9788	13432	13113	97.62	0.36
7219/8-1S	NOR	93007-77	2997	3006	Cuttings	233	788	4407	1215	3492	6170	10135	9902	97.70	0.35
7219/8-1S	NOR	93007-78	3006	3015	Cuttings	254	560	4613	1206	3861	6314	10494	10240	97.58	0.31
7219/8-1S	NOR	93007-79	3015	3024	Cuttings	243	442	4190	1092	3493	5654	9460	9217	97.43	0.31
7219/8-1S	NOR	93007-80	3024	3033	Cuttings	436	542	5806	1379	4699	7834	12862	12426	96.61	0.29
7219/8-1S	NOR	93007-81	3033	3042	Cuttings	616	183	3127	959	4048	9975	8933	8316	93.10	0.24
7219/8-1S	NOR	93007-82	3042	3051	Cuttings	323	1159	6077	1421	4345	6709	13325	13002	97.58	0.33
7219/8-1S	NOR	93007-83	3051	3060	Cuttings	249	1086	6215	1494	4522	6940	13565	13316	98.16	0.33
7219/8-1S	NOR	93007-84	3060	3069	Cuttings	281	841	4958	1305	4139	6893	11525	11244	97.56	0.32
7219/8-1S	NOR	93007-85	3069	3078	Cuttings	183	958	4728	1322	3898	7732	11090	10906	98.35	0.34
7219/8-1S	NOR	93007-86	3078	3087	Cuttings	187	608	4189	1423	4181	8774	10588	10401	98.24	0.34
7219/8-1S	NOR	93007-87	3087	3096	Cuttings	204	912	4827	1506	4109	7718	11557	11354	98.24	0.37
7219/8-1S	NOR	93007-88	3096	3105	Cuttings	212	794	4493	1572	4421	9977	11492	11280	98.16	0.36
7219/8-1S	NOR	93007-88	3105	3114	Cuttings	208	1558	7880	2460	6205	11414	18310	18102	98.86	0.40
7219/8-1S	NOR	93007-89	3114	3123	Cuttings	149	485	3617	1314	3797	8916	9362	9213	98.40	0.35
7219/8-1S	NOR	93007-90	3123	3132	Cuttings	173	544	3884	1183	3367	5327	9152	8979	98.11	0.35
7219/8-1S	NOR	93007-91	3132	3141	Cuttings	385	495	3729	1379	3972	9283	9961	9575	96.13	0.35
7219/8-1S	NOR	93007-92	3141	3150	Cuttings	215	623	4442	2346	6037	18492	13664	13448	98.42	0.39
7219/8-1S	NOR	93007-93	3150	3159	Cuttings	170	351	2749	1330	3784	11367	8384	8214	97.98	0.35
7219/8-1S	NOR	93007-94	3159	3168	Cuttings	74	474	3481	1103	2938	5511	8071	7997	99.08	0.38
7219/8-1S	NOR	93007-95	3168	3177	Cuttings	240	918	5766	1839	4989	9925	13753	13513	98.25	0.37

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Table 3

Well	Nation	Sample Name	Upper Depth	Lower Depth	Sample Type	C1 uL/Kg	C2 uL/Kg	C3 uL/Kg	iC4 uL/Kg	nC4 uL/Kg	C5+ uL/Kg	SUM C1-C4	SUM C2-C4	Wetness %	iC4 nC4	
7219/8-1S	NOR	93007-97	3186	3195	Cuttings	120	628	3907	1523	3981	9743	10158	10038	98.82	0.38	
7219/8-1S	NOR	93007-98	3195	3204	Cuttings	353	635	5510	2018	5305	9439	13820	13467	97.44	0.38	
7219/8-1S	NOR	93007-99	3204	3213	Cuttings	154	681	5320	1868	4845	8841	12868	12714	98.80	0.39	
7219/8-1S	NOR	93007-100	3213	3222	Cuttings	184	511	4635	2016	5176	11015	12522	12339	98.53	0.39	
7219/8-1S	NOR	93007-101	3222	3231	Cuttings	174	401	3680	1696	4673	11794	10625	10451	98.36	0.36	
7219/8-1S	NOR	93007-102	3231	3240	Cuttings	235	496	3774	1801	5065	15353	11371	11136	97.93	0.36	
7219/8-1S	NOR	93007-103	3240	3249	Cuttings	314	250	1772	775	2494	8017	5605	5291	94.39	0.31	
7219/8-1S	NOR	93007-104	3249	3258	Cuttings	156	233	1641	725	1988	7369	4744	4587	96.70	0.36	
7219/8-1S	NOR	93007-105	3258	3267	Cuttings	121	299	1658	636	1648	3664	4361	4240	97.23	0.39	
7219/8-1S	NOR	93007-106	3267	3276	Cuttings	331	1194	28717	1323	3596	8038	35160	34829	99.06	0.37	
7219/8-1S	NOR	93007-107	3276	3285	Cuttings	404	1639	4081	953	4803	11270	11881	11477	96.60	0.20	
7219/8-1S	NOR	93007-108	3285	3294	Cuttings	259	1187	2957	796	1879	4167	7078	6819	96.34	0.42	
7219/8-1S	NOR	93007-109	3294	3303	Cuttings	482	2023	4603	1106	2840	5170	11054	10571	95.64	0.39	
7219/8-1S	NOR	93007-110	3303	3312	Cuttings	423	1886	4877	1326	3445	7565	11956	11534	96.46	0.38	
7219/8-1S	NOR	93007-111	3312	3321	Cuttings	305	1348	3743	1126	2654	4359	9176	8871	96.67	0.42	
7219/8-1S	NOR	93007-112	3321	3330	Cuttings	217	1029	3893	1333	3306	8142	9777	9561	97.78	0.40	
7219/8-1S	NOR	93007-113	3330	3339	Cuttings	492	1112	3942	1375	3558	9007	10479	9988	95.31	0.39	
7219/8-1S	NOR	93007-114	3339	3348	Cuttings	205	833	3270	1235	3079	7469	8621	8417	97.62	0.40	
7219/8-1S	NOR	93007-115	3348	3357	Cuttings	391	848	3500	1321	3318	10172	9378	8987	95.83	0.40	
7219/8-1S	NOR	93007-116	3357	3366	Cuttings	349	799	3190	1227	3056	9325	8622	8272	95.95	0.40	
7219/8-1S	NOR	93007-117	3366	3375	Cuttings	NO SAMPLE										
7219/8-1S	NOR	93007-118	3375	3384	Cuttings	230	535	2339	979	2445	7459	6528	6298	96.48	0.40	
7219/8-1S	NOR	93007-119	3384	3393	Cuttings	275	71	555	260	999	4943	2160	1885	87.29	0.26	
7219/8-1S	NOR	93007-120	3393	3402	Cuttings	453	377	2794	1229	3665	10308	8519	8065	94.68	0.34	
7219/8-1S	NOR	93007-121	3402	3411	Cuttings	538	591	4283	2194	5779	18188	13385	12847	95.98	0.38	
7219/8-1S	NOR	93007-122	3411	3420	Cuttings	780	573	3801	1784	5020	14770	11959	11178	93.48	0.36	
7219/8-1S	NOR	93007-123	3420	3429	Cuttings	570	322	2382	1081	3326	11349	7680	7110	92.58	0.33	
7219/8-1S	NOR	93007-124	3429	3438	Cuttings	327	758	5242	2307	13017	20072	21651	21324	98.49	0.18	
7219/8-1S	NOR	93007-125	3438	3447	Cuttings	566	911	6315	3073	8713	19755	19577	19011	97.11	0.35	
7219/8-1S	NOR	93007-126	3447	3456	Cuttings	344	505	3995	1833	5386	11212	12063	11719	97.15	0.34	
7219/8-1S	NOR	93007-127	3456	3465	Cuttings	473	548	4002	1894	5776	14668	12692	12219	96.28	0.33	
7219/8-1S	NOR	93007-128	3465	3474	Cuttings	473	606	4290	2023	5997	14931	13389	12916	96.47	0.34	

Well	Nation	Sample Name	Upper Depth	tower Depth	Sample Type	C1 uL/Kg	C2 uL/Kg	C3 uL/Kg	iC4 uL/Kg	nC4 uL/Kg	C5+ uL/Kg	SUM C1-C4	SUM C2-C4	Wetness %	iC4 nC4
7219/8-1S	NOR	93007-129	3474	3483	Cuttings	417	797	4470	2332	5937	12598	13953	13536	97.01	0.39
7219/8-1S	NOR	93007-130	3483	3492	Cuttings	439	951	5630	3193	7525	14832	17739	17300	97.52	0.42
7219/8-1S	NOR	93007-131	3492	3501	Cuttings	264	1156	6324	3418	7866	13810	19029	18764	98.61	0.43
7219/8-1S	NOR	93007-132	3501	3510	Cuttings	180	2056	8436	3956	8726	13565	23353	23174	99.23	0.45
7219/8-1S	NOR	93007-133	3510	3519	Cuttings	319	1632	7273	3717	8505	15047	21447	21128	98.51	0.44
7219/8-1S	NOR	93007-134	3519	3528	Cuttings	349	2158	9474	5006	11286	20347	28273	27924	98.77	0.44
7219/8-1S	NOR	93007-135	3528	3537	Cuttings	385	2420	9467	4879	10145	16989	27296	26911	98.59	0.48
7219/8-1S	NOR	93007-136	3537	3546	Cuttings	376	2117	8119	3823	8176	14121	22611	22235	98.34	0.47
7219/8-1S	NOR	93007-137	3546	3555	Cuttings	418	1650	6812	3113	6849	11772	18841	18424	97.78	0.45
7219/8-1S	NOR	93007-138	3555	3564	Cuttings	365	1578	5202	1804	4109	5802	13057	12692	97.20	0.44
7219/8-1S	NOR	93007-139	3564	3573	Cuttings	720	1956	6032	2167	4843	8116	15717	14997	95.42	0.45
7219/8-1S	NOR	93007-140	3573	3582	Cuttings	490	2668	7390	2606	5545	9354	18699	18209	97.38	0.47
7219/8-1S	NOR	93007-141	3582	3591	Cuttings	222	1700	4671	1550	3250	5267	11393	11170	98.05	0.48
7219/8-1S	NOR	93007-142	3591	3600	Cuttings	480	1677	4833	1689	3402	6897	12081	11601	96.03	0.50
7219/8-1S	NOR	93007-143	3600	3609	Cuttings	834	1487	4029	1268	2611	4924	10229	9395	91.85	0.49
7219/8-1S	NOR	93007-144	3609	3618	Cuttings	1084	2934	5421	1558	2879	5228	13875	12791	92.19	0.54
7219/8-1S	NOR	93007-145	3618	3627	Cuttings	871	6796	11302	3681	5557	8348	28208	27337	96.91	0.66
7219/8-1S	NOR	93007-146	3627	3636	Cuttings	912	3374	6870	2510	4089	7471	17753	16842	94.86	0.61
7219/8-1S	NOR	93007-147	3636	3645	Cuttings	723	10325	11622	4417	7082	13016	34169	33446	97.88	0.62
7219/8-1S	NOR	93007-148	3645	3654	Cuttings	385	7598	7925	2620	4103	5687	22631	22246	98.30	0.64
7219/8-1S	NOR	93007-149	3654	3663	Cuttings	534	9982	9289	3094	4355	5134	27255	26720	98.04	0.71
7219/8-1S	NOR	93007-150	3663	3672	Cuttings	744	7298	15203	6141	9585	14202	38972	38228	98.09	0.64
7219/8-1S	NOR	93007-151	3672	3681	Cuttings	979	3386	7699	2839	4679	7109	19581	18602	95.00	0.61
7219/8-1S	NOR	93007-152	3681	3690	Cuttings	1020	5618	9553	3469	4297	5388	23957	22937	95.74	0.81
7219/8-1S	NOR	93007-153	3690	3699	Cuttings	925	5413	9112	3277	3953	5881	22680	21755	95.92	0.83
7219/8-1S	NOR	93007-154	3699	3708	Cuttings	826	6021	9834	3595	4465	6335	24741	23915	96.66	0.81
7219/8-1S	NOR	93007-155	3708	3717	Cuttings	1168	6390	10923	4179	5141	7136	27802	26633	95.80	0.81
7219/8-1S	NOR	93007-156	3717	3726	Cuttings	1138	6419	11145	3973	5298	7131	27973	26835	95.93	0.75
7219/8-1S	NOR	93007-157	3726	3735	Cuttings	816	4698	8281	2821	3811	5676	20426	19610	96.00	0.74
7219/8-1S	NOR	93007-158	3735	3744	Cuttings	1187	5227	8885	3050	4007	5567	22357	21169	94.69	0.76
7219/8-1S	NOR	93007-159	3744	3753	Cuttings	731	4187	7597	2694	3346	4549	18556	17825	96.06	0.81
7219/8-1S	NOR	93007-160	3753	3762	Cuttings	1689	4600	8544	3497	3745	5749	22074	20386	92.35	0.93

Well	Nation	Sample Name	Upper Depth	Lower Depth	Sample Type	C1 uL/Kg	C2 uL/Kg	C3 uL/Kg	iC4 uL/Kg	nC4 uL/Kg	C5+ uL/Kg	SUM C1-C4	SUM C2-C4	Wetness %	iC4 nC4
7219/8-1S	NOR	93007-161	3762	3771	Cuttings	1085	5138	8145	2945	3193	4518	20507	19422	94.71	0.92
7219/8-1S	NOR	93007-162	3771	3780	Cuttings	1091	4294	6752	2346	2470	3361	16952	15861	93.56	0.95
7219/8-1S	NOR	93007-163	3780	3789	Cuttings	1118	1558	3992	1748	1982	3407	10398	9280	89.25	0.88
7219/8-1S	NOR	93007-164	3789	3798	Cuttings	565	4035	6706	2837	2666	3817	16809	16244	96.64	1.06
7219/8-1S	NOR	93007-165	3798	3807	Cuttings	654	1389	3551	1738	1622	2821	8954	8300	92.70	1.07
7219/8-1S	NOR	93007-166	3807	3816	Cuttings	888	1864	4298	2209	1910	3571	11169	10281	92.05	1.16
7219/8-1S	NOR	93007-167	3816	3825	Cuttings	1228	1977	4186	1994	1572	2547	10957	9729	88.80	1.27
7219/8-1S	NOR	93007-168	3825	3834	Cuttings	1021	1307	3117	1526	1250	2444	8221	7200	87.58	1.22
7219/8-1S	NOR	93007-169	3834	3843	Cuttings	1183	2169	4209	2169	1477	2774	11207	10024	89.45	1.47
7219/8-1S	NOR	93007-170	3843	3852	Cuttings	1023	1452	2876	1188	909	1594	7447	6424	86.26	1.31
7219/8-1S	NOR	93007-171	3852	3861	Cuttings	1201	1876	3428	1297	1106	2105	8907	7706	86.51	1.17
7219/8-1S	NOR	93007-172	3861	3870	Cuttings	2207	1054	2135	750	632	1088	6779	4572	67.44	1.19
7219/8-1S	NOR	93007-173	3870	3879	Cuttings	3386	1250	1880	577	475	908	7568	4182	55.26	1.22
7219/8-1S	NOR	93007-174	3879	3888	Cuttings	2026	904	1511	432	329	482	5201	3175	61.05	1.31
7219/8-1S	NOR	93007-175	3888	3897	Cuttings	1512	1086	1716	505	356	517	5174	3662	70.78	1.42
7219/8-1S	NOR	93007-176	3897	3906	Cuttings	1376	1334	1771	494	360	536	5334	3958	74.20	1.37
7219/8-1S	NOR	93007-177	3906	3915	Cuttings	2093	570	799	193	175	312	3830	1737	45.35	1.11
7219/8-1S	NOR	93007-178	3915	3924	Cuttings	1157	339	514	115	126	262	2251	1094	48.60	0.91
7219/8-1S	NOR	93007-179	3924	3933	Cuttings	2092	497	725	149	179	292	3642	1549	42.55	0.83
7219/8-1S	NOR	93007-180	3933	3942	Cuttings	2635	560	775	148	195	238	4313	1678	38.90	0.76
7219/8-1S	NOR	93007-181	3942	3951	Cuttings	1115	332	619	156	287	627	2509	1394	55.57	0.54
7219/8-1S	NOR	93007-182	3951	3960	Cuttings	575	159	271	68	118	274	1192	616	51.72	0.58
7219/8-1S	NOR	93007-183	3960	3969	Cuttings	1598	336	496	86	237	360	2753	1155	41.95	0.36
7219/8-1S	NOR	93007-184	3969	3978	Cuttings	831	215	290	51	133	168	1521	690	45.38	0.39
7219/8-1S	NOR	93007-185	3978	3987	Cuttings	1644	314	461	86	197	288	2701	1058	39.16	0.43
7219/8-1S	NOR	93007-186	3987	3996	Cuttings	2044	266	247	35	141	165	2733	688	25.19	0.25
7219/8-1S	NOR	93007-187	3996	4005	Cuttings	1871	263	237	29	114	140	2514	643	25.57	0.25
7219/8-1S	NOR	93007-188	4005	4014	Cuttings	1959	238	214	24	109	101	2544	585	23.00	0.22
7219/8-1S	NOR	93007-189	4014	4023	Cuttings	2458	396	258	47	162	179	3321	862	25.97	0.29
7219/8-1S	NOR	93007-190	4023	4032	Cuttings	1529	324	210	40	101	146	2204	674	30.61	0.39
7219/8-1S	NOR	93007-191	4032	4041	Cuttings	788	236	139	24	70	82	1257	469	37.28	0.34
7219/8-1S	NOR	93007-192	4041	4050	Cuttings	784	213	132	22	64	108	1215	431	35.48	0.35

Well	Nation	Sample Name	Upper Depth	tower Depth	Sample Type	C1 uL/Kg	C2 uL/Kg	C3 uL/Kg	iC4 uL/Kg	nC4 uL/Kg	C5+ uL/Kg	SUM C1-C4	SUM C2-C4	Wetness %	iC4 nC4
7219/8-1S	NOR	93007-193	4050	4059	Cuttings	1476	287	173	35	81	178	2052	576	28.06	0.43
7219/8-1S	NOR	93007-194	4059	4068	Cuttings	976	280	157	38	71	90	1521	546	35.88	0.53
7219/8-1S	NOR	93007-195	4068	4077	Cuttings	899	283	153	35	66	78	1436	536	37.35	0.52
7219/8-1S	NOR	93007-196	4077	4086	Cuttings	1292	344	180	39	69	47	1924	632	32.86	0.57
7219/8-1S	NOR	93007-197	4086	4095	Cuttings	1549	229	146	26	66	66	2016	467	23.15	0.39
7219/8-1S	NOR	93007-198	4095	4104	Cuttings	895	184	126	25	71	83	1300	406	31.20	0.36
7219/8-1S	NOR	93007-199	4104	4113	Cuttings	1376	215	125	23	71	68	1811	434	23.98	0.32
7219/8-1S	NOR	93007-200	4113	4122	Cuttings	1135	208	101	16	64	55	1524	389	25.53	0.25
7219/8-1S	NOR	93007-201	4122	4131	Cuttings	2594	326	201	37	98	130	3256	662	20.33	0.38
7219/8-1S	NOR	93007-202	4131	4140	Cuttings	1033	143	104	16	44	48	1339	307	22.89	0.37
7219/8-1S	NOR	93007-203	4140	4149	Cuttings	2435	211	112	20	67	60	2845	409	14.39	0.30
7219/8-1S	NOR	93007-204	4149	4158	Cuttings	1369	321	194	29	86	83	1999	630	31.52	0.33
7219/8-1S	NOR	93007-205	4158	4167	Cuttings	2420	446	247	42	109	73	3265	845	25.88	0.38
7219/8-1S	NOR	93007-206	4167	4176	Cuttings	1552	303	182	31	76	65	2145	592	27.62	0.41
7219/8-1S	NOR	93007-207	4176	4185	Cuttings	1581	545	188	23	51	23	2389	807	33.80	0.45
7219/8-1S	NOR	93007-208	4185	4194	Cuttings	2134	640	279	38	95	88	3185	1052	33.02	0.39
7219/8-1S	NOR	93007-209	4194	4203	Cuttings	2046	586	293	49	99	174	3072	1027	33.42	0.50
7219/8-1S	NOR	93007-210	4203	4212	Cuttings	3429	612	312	68	115	185	4535	1106	24.40	0.59
7219/8-1S	NOR	93007-211	4212	4221	Cuttings	3605	968	307	41	72	84	4993	1388	27.80	0.57
7219/8-1S	NOR	93007-212	4221	4230	Cuttings	3803	1183	296	31	56	87	5369	1566	29.17	0.55
7219/8-1S	NOR	93007-213	4230	4239	Cuttings	3434	2129	575	72	120	75	6329	2896	45.75	0.60
7219/8-1S	NOR	93007-214	4239	4248	Cuttings	3103	1579	550	81	133	94	5445	2342	43.01	0.61
7219/8-1S	NOR	93007-215	4248	4257	Cuttings	4128	1452	529	85	168	83	6364	2235	35.12	0.51
7219/8-1S	NOR	93007-216	4257	4266	Cuttings	6417	2362	881	128	199	113	9986	3570	35.75	0.64
7219/8-1S	NOR	93007-217	4278	4287	Cuttings	3748	1669	540	70	137	79	6165	2417	39.20	0.51
7219/8-1S	NOR	93007-218	4287	4296	Cuttings	6140	1531	375	36	66	74	8148	2008	24.64	0.54
7219/8-1S	NOR	93007-219	4296	4305	Cuttings	6032	2806	987	140	205	102	10170	4137	40.68	0.68
7219/8-1S	NOR	93007-220	4305	4314	Cuttings	4458	1901	668	96	169	82	7293	2835	38.87	0.57
7219/8-1S	NOR	93007-221	4314	4323	Cuttings	5558	1980	588	83	152	69	8361	2803	33.53	0.55
7219/8-1S	NOR	93007-222	4323	4332	Cuttings	5233	990	203	22	44	63	6492	1259	19.39	0.50
7219/8-1S	NOR	93007-223	4332	4341	Cuttings	3845	445	123	24	50	113	4487	642	14.30	0.48
7219/8-1S	NOR	93007-224	4341	4350	Cuttings	4102	327	125	17	53	72	4624	521	11.28	0.32

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OCCLUDED GAS DATA Table 3

Well	Nation	Sample Name	Upper Depth	tower Depth	Sample Type	C1 uL/Kg	C2 uL/Kg	C3 uL/Kg	iC4 uL/Kg	nC4 uL/Kg	C5+ uL/Kg	SUM C1-C4	SUM C2-C4	Wetness %	iC4 nC4
7219/8-1S	NOR	93007-225	4350	4359	Cuttings	4320	179	99	19	52	94	4670	350	7.50	0.37
7219/8-1S	NOR	93007-226	4359	4368	Cuttings	5900	293	142	22	82	88	6440	540	8.38	0.27
7219/8-1S	NOR	93007-227	4368	4377	Cuttings	3890	231	96	20	53	94	4290	400	9.33	0.39
7219/8-1S	NOR	93007-228	4377	4386	Cuttings	1239	91	70	11	38	42	1449	210	14.47	0.28
7219/8-1S	NOR	93007-229	4386	4395	Cuttings	2515	158	96	15	72	65	2856	341	11.93	0.21
7219/8-1S	NOR	93007-230	4395	4404	Cuttings	2575	168	130	23	98	128	2993	418	13.95	0.23
7219/8-1S	NOR	93007-231	4404	4413	Cuttings	1532	124	92	15	66	71	1828	297	16.22	0.22
7219/8-1S	NOR	93007-232	4413	4422	Cuttings	1995	126	105	23	70	109	2319	324	13.96	0.33
7219/8-1S	NOR	93007-233	4422	4431	Cuttings	711	89	124	39	110	332	1073	361	33.70	0.35
7219/8-1S	NOR	93007-234	4431	4440	Cuttings	1615	99	137	54	169	570	2074	459	22.13	0.32
7219/8-1S	NOR	93007-235	4440	4449	Cuttings	1291	103	133	54	157	441	1738	447	25.70	0.34
7219/8-1S	NOR	93007-236	4449	4458	Cuttings	1389	106	124	51	148	685	1817	429	23.59	0.35
7219/8-1S	NOR	93007-237	4451	4460	Cuttings	1016	100	70	19	79	338	1284	268	20.87	0.24
7219/8-1S	NOR	93007-238	4461	4470	Cuttings	618	104	147	108	190	973	1167	549	47.04	0.57
7219/8-1S	NOR	93007-239	4470	4479	Cuttings	942	62	76	25	71	251	1176	234	19.87	0.34
7219/8-1S	NOR	93007-240	4479	4488	Cuttings	2648	107	80	17	73	153	2925	277	9.48	0.23
7219/8-1S	NOR	93007-241	4488	4497	Cuttings	3511	128	77	15	74	133	3806	295	7.74	0.21
7219/8-1S	NOR	93007-242	4497	4506	Cuttings	2447	96	70	12	58	122	2684	236	8.81	0.20
7219/8-1S	NOR	93007-243	4506	4515	Cuttings	704	56	54	5	31	110	849	145	17.12	0.17
7219/8-1S	NOR	93007-244	4515	4524	Cuttings	787	84	70	14	38	105	992	205	20.71	0.36
7219/8-1S	NOR	93007-245	4524	4533	Cuttings	752	72	89	21	70	169	1004	252	25.11	0.30
7219/8-1S	NOR	93007-246	4533	4542	Cuttings	2349	94	64	22	60	327	2589	241	9.29	0.38
7219/8-1S	NOR	93007-247	4542	4551	Cuttings	2102	122	78	20	73	286	2395	293	12.23	0.27
7219/8-1S	NOR	93007-248	4551	4560	Cuttings	792	42	25	2	15	56	875	83	9.52	0.17
7219/8-1S	NOR	93007-249	4560	4569	Cuttings	810	58	41	7	29	84	944	135	14.25	0.25
7219/8-1S	NOR	93007-250	4569	4578	Cuttings	839	50	30	2	22	67	944	105	11.08	0.11
7219/8-1S	NOR	93007-251	4578	4587	Cuttings	1228	60	46	12	41	222	1387	159	11.48	0.29
7219/8-1S	NOR	93007-252	4584	4593	Cuttings	736	27	15	2	12	59	792	57	7.14	0.20

Well	Nation	Sample Name	Upper Depth	Lower Depth	Sample Type	C1 uL/Kg	C2 uL/Kg	C3 uL/Kg	iC4 uL/Kg	nC4 uL/Kg	C5+ uL/Kg	SUM C1-C4	SUM C2-C4	Wetness %	iC4 nC4
7219/8-1S	NOR	93007-1	2290	2300	Cuttings	1820	1337	2079	256	503	722	5995	4175	69.65	0.51
7219/8-1S	NOR	93007-2	2300	2310	Cuttings	1755	1341	2038	255	481	764	5871	4116	70.11	0.53
7219/8-1S	NOR	93007-3	2310	2320	Cuttings	4635	2860	2859	411	546	829	11311	6676	59.02	0.75
7219/8-1S	NOR	93007-4	2320	2330	Cuttings	637	672	1223	152	349	602	3033	2396	79.00	0.43
7219/8-1S	NOR	93007-5	2330	2340	Cuttings	1557	1179	1537	202	354	631	4829	3272	67.76	0.57
7219/8-1S	NOR	93007-6	2340	2350	Cuttings	832	703	878	121	215	414	2748	1916	69.72	0.56
7219/8-1S	NOR	93007-7	2350	2360	Cuttings	1633	1437	1901	246	473	1055	5690	4057	71.29	0.52
7219/8-1S	NOR	93007-8	2360	2370	Cuttings	5474	3934	3536	508	635	1223	14087	8613	61.14	0.80
7219/8-1S	NOR	93007-9	2370	2380	Cuttings	1607	1311	1713	232	490	1269	5353	3746	69.98	0.47
7219/8-1S	NOR	93007-10	2380	2390	Cuttings	1152	860	1620	246	585	1940	4463	3311	74.18	0.42
7219/8-1S	NOR	93007-11	2390	2400	Cuttings	1528	919	1475	217	450	1142	4588	3060	66.71	0.48
7219/8-1S	NOR	93007-12	2400	2410	Cuttings	2584	1384	1873	300	575	1974	6717	4133	61.52	0.52
7219/8-1S	NOR	93007-13	2410	2420	Cuttings	7499	3438	3763	653	966	3256	16318	8819	54.05	0.68
7219/8-1S	NOR	93007-14	2420	2430	Cuttings	5290	2934	3178	507	704	1846	12614	7323	58.06	0.72
7219/8-1S	NOR	93007-15	2430	2440	Cuttings	2988	2030	1962	218	358	916	7557	4569	60.46	0.61
7219/8-1S	NOR	93007-16	2440	2450	Cuttings	4594	3145	2615	307	519	3543	11179	6585	58.90	0.59
7219/8-1S	NOR	93007-17	2450	2460	Cuttings	1179	1160	1791	152	327	505	4609	3430	74.42	0.46
7219/8-1S	NOR	93007-18	2460	2470	Cuttings	846	1083	1974	150	407	612	4460	3614	81.04	0.37
7219/8-1S	NOR	93007-19	2470	2480	Cuttings	1782	1337	1690	151	259	418	5220	3438	65.86	0.58
7219/8-1S	NOR	93007-20	2480	2490	Cuttings	2525	1800	2417	215	333	445	7291	4765	65.36	0.65
7219/8-1S	NOR	93007-21	2490	2500	Cuttings	1977	521	1341	99	255	674	4193	2216	52.85	0.39
7219/8-1S	NOR	93007-22	2500	2510	Cuttings	2764	1821	2827	273	443	906	8128	5365	66.00	0.62
7219/8-1S	NOR	93007-23	2510	2520	Cuttings	1860	487	1643	146	342	613	4478	2618	58.46	0.43
7219/8-1S	NOR	93007-24	2520	2529	Cuttings	1706	915	2188	187	418	675	5414	3708	68.50	0.45
7219/8-1S	NOR	93007-25	2529	2538	Cuttings	3979	774	2703	232	529	618	8217	4238	51.58	0.44
7219/8-1S	NOR	93007-26	2541	2550	Cuttings	1103	595	1624	119	388	447	3828	2725	71.19	0.31
7219/8-1S	NOR	93007-27	2547	2556	Cuttings	5376	3247	5966	478	1048	1103	16115	10739	66.64	0.46
7219/8-1S	NOR	93007-28	2556	2565	Cuttings	295	254	1130	96	397	569	2173	1878	86.42	0.24
7219/8-1S	NOR	93007-29	2565	2574	Cuttings	4062	925	1697	175	517	695	7377	3314	44.93	0.34
7219/8-1S	NOR	93007-30	2574	2583	Cuttings	1574	932	2371	270	736	1008	5883	4309	73.24	0.37
7219/8-1S	NOR	93007-31	2583	2592	Cuttings	829	451	1783	208	593	921	3864	3034	78.54	0.35
7219/8-1S	NOR	93007-32	2592	2601	Cuttings	1971	434	1195	162	491	934	4253	2283	53.67	0.33

Well	Nation	Sample Name	Upper Depth	Lower Depth	Sample Type	C1 uL/Kg	C2 uL/Kg	C3 uL/Kg	iC4 uL/Kg	nC4 uL/Kg	C5+ uL/Kg	SUM C1-C4	SUM C2-C4	Wetness %	iC4 nC4
7219/8-1S	NOR	93007-33	2601	2610	Cuttings	7125	1869	2499	518	1372	5137	13382	6257	46.76	0.38
7219/8-1S	NOR	93007-34	2610	2619	Cuttings	9170	5031	8279	1951	3664	7105	28097	18926	67.36	0.53
7219/8-1S	NOR	93007-35	2619	2628	Cuttings	6717	3724	5184	840	1573	2441	18039	11322	62.76	0.53
7219/8-1S	NOR	93007-36	2628	2637	Cuttings	6343	3972	5442	857	1544	2280	18158	11816	65.07	0.56
7219/8-1S	NOR	93007-37	2637	2646	Cuttings	4701	5929	5600	1821	1502	2522	19553	14852	75.96	1.21
7219/8-1S	NOR	93007-38	2646	2655	Cuttings	8013	6052	8511	1313	2340	3896	26229	18216	69.45	0.56
7219/8-1S	NOR	93007-39	2655	2664	Cuttings	5144	3865	5593	719	1388	2286	16709	11565	69.21	0.52
7219/8-1S	NOR	93007-40	2664	2673	Cuttings	5550	2800	4996	606	1276	2043	15229	9679	63.56	0.47
7219/8-1S	NOR	93007-41	2673	2682	Cuttings	10751	6547	7150	837	1256	1742	26540	15789	59.49	0.67
7219/8-1S	NOR	93007-42	2682	2691	Cuttings	3613	3450	4703	514	1050	1516	13330	9717	72.90	0.49
7219/8-1S	NOR	93007-43	2691	2700	Cuttings	3177	3259	5431	534	1224	2136	13625	10449	76.69	0.44
7219/8-1S	NOR	93007-44	2700	2709	Cuttings	2932	1458	3071	299	769	1447	8529	5597	65.62	0.39
7219/8-1S	NOR	93007-45	2709	2718	Cuttings	4334	2995	5362	566	1262	2355	14518	10185	70.15	0.45
7219/8-1S	NOR	93007-46	2718	2727	Cuttings	1666	1778	3222	331	826	1577	7823	6157	78.71	0.40
7219/8-1S	NOR	93007-47	2727	2736	Cuttings	3734	3045	5278	670	2057	2693	14785	11051	74.74	0.33
7219/8-1S	NOR	93007-48	2736	2745	Cuttings	1936	1264	3334	391	1699	2636	8624	6688	77.56	0.23
7219/8-1S	NOR	93007-49	2745	2754	Cuttings	3765	4135	4560	503	1371	2699	14334	10569	73.73	0.37
7219/8-1S	NOR	93007-50	2754	2763	Cuttings	3256	2696	4316	491	1159	2000	11918	8662	72.68	0.42
7219/8-1S	NOR	93007-51	2763	2772	Cuttings	2717	1573	3018	284	879	1570	8472	5754	67.92	0.32
7219/8-1S	NOR	93007-52	2772	2781	Cuttings	5525	4628	6113	668	1460	2298	18394	12869	69.96	0.46
7219/8-1S	NOR	93007-53	2781	2790	Cuttings	4512	4523	6987	733	1955	3490	18711	14198	75.88	0.37
7219/8-1S	NOR	93007-54	2790	2799	Cuttings	8173	6396	8513	1037	2258	3367	26376	18203	69.01	0.46
7219/8-1S	NOR	93007-55	2799	2808	Cuttings	1839	2070	4775	674	1872	3767	11230	9392	83.63	0.36
7219/8-1S	NOR	93007-56	2808	2817	Cuttings	14012	8740	12518	2011	3565	5195	40845	26833	65.70	0.56
7219/8-1S	NOR	93007-57	2817	2826	Cuttings	6589	3768	7206	957	2176	2859	20696	14107	68.16	0.44
7219/8-1S	NOR	93007-58	2826	2835	Cuttings	6119	3696	6978	1223	2397	3633	20413	14294	70.03	0.51
7219/8-1S	NOR	93007-59	2835	2844	Cuttings	13461	6249	12835	2182	4231	7093	38958	25496	65.45	0.52
7219/8-1S	NOR	93007-60	2844	2853	Cuttings	4046	1543	3593	673	1596	4728	11452	7406	64.67	0.42
7219/8-1S	NOR	93007-61	2853	2862	Cuttings	5304	2169	4550	1041	2377	6153	15441	10138	65.65	0.44
7219/8-1S	NOR	93007-62	2862	2871	Cuttings	7950	5607	12288	2931	5965	10983	34742	26792	77.12	0.49
7219/8-1S	NOR	93007-63	2871	2880	Cuttings	8429	4185	8800	1772	3823	6813	27010	18580	68.79	0.46
7219/8-1S	NOR	93007-64	2880	2889	Cuttings	10564	5606	10468	2211	4942	8646	33790	23226	68.74	0.45

Well	Nation	Sample Name	Upper Depth	tower Depth	Sample Type	01 uL/Kg	C2 uL/Kg	C3 uL/Kg	iC4 uL/Kg	nC4 uL/Kg	C5+ uL/Kg	SUM C1-C4	SUM C2-C4	Wetness %	iC4 nC4
7219/8-1S	NOR	93007-65	2889	2898	Cuttings	9401	5844	11541	2499	5542	9563	34828	25427	73.01	0.45
7219/8-1S	NOR	93007-66	2898	2907	Cuttings	8465	4792	9459	2226	4936	10004	29877	21413	71.67	0.45
7219/8-1S	NOR	93007-67	2907	2916	Cuttings	5611	2969	6691	1633	3547	7972	20450	14839	72.56	0.46
7219/8-1S	NOR	93007-68	2916	2925	Cuttings	12141	5691	10879	2727	6115	9707	37553	25412	67.67	0.45
7219/8-1S	NOR	93007-69	2925	2934	Cuttings	7988	5600	14571	4416	9625	12649	42200	34213	81.07	0.46
7219/8-1S	NOR	93007-70	2934	2943	Cuttings	9789	6991	17358	5606	10628	16880	50372	40583	80.57	0.53
7219/8-1S	NOR	93007-71	2943	2952	Cuttings	10029	7080	17651	7171	13778	27138	55709	45681	82.00	0.52
7219/8-1S	NOR	93007-72	2952	2961	Cuttings	5314	4673	15062	6633	12442	25274	44124	38810	87.96	0.53
7219/8-1S	NOR	93007-73	2961	2970	Cuttings	7050	5856	17276	7324	14129	27279	51635	44585	86.35	0.52
7219/8-1S	NOR	93007-74	2970	2979	Cuttings	5011	4586	14212	5787	11682	23746	41277	36266	87.86	0.50
7219/8-1S	NOR	93007-75	2979	2988	Cuttings	18843	11716	23969	8655	15386	22060	78569	59725	76.02	0.56
7219/8-1S	NOR	93007-76	2988	2997	Cuttings	4500	3233	9521	3293	7113	11783	27660	23161	83.73	0.46
7219/8-1S	NOR	93007-77	2997	3006	Cuttings	6706	4307	10231	3032	6308	8988	30585	23878	78.07	0.48
7219/8-1S	NOR	93007-78	3006	3015	Cuttings	10187	6084	13797	3821	7939	10390	41828	31641	75.64	0.48
7219/8-1S	NOR	93007-79	3015	3024	Cuttings	12813	6145	12998	3057	6750	8784	41763	28950	69.32	0.45
7219/8-1S	NOR	93007-80	3024	3033	Cuttings	37667	17159	26487	5643	11513	14964	98469	60802	61.75	0.49
7219/8-1S	NOR	93007-81	3033	3042	Cuttings	40602	20092	29474	6202	12568	19338	108939	68336	62.73	0.49
7219/8-1S	NOR	93007-82	3042	3051	Cuttings	8033	5128	11558	2611	6270	8765	33600	25567	76.09	0.42
7219/8-1S	NOR	93007-83	3051	3060	Cuttings	7538	4808	11457	2522	6246	8788	32571	25033	76.86	0.40
7219/8-1S	NOR	93007-84	3060	3069	Cuttings	6892	4262	10152	2463	6064	9097	29833	22941	76.90	0.41
7219/8-1S	NOR	93007-85	3069	3078	Cuttings	6372	3788	8589	2104	5247	9330	26100	19727	75.58	0.40
7219/8-1S	NOR	93007-86	3078	3087	Cuttings	4501	3039	8068	2396	5766	10655	23770	19269	81.06	0.42
7219/8-1S	NOR	93007-87	3087	3096	Cuttings	7565	4475	9894	2772	6186	10049	30892	23327	75.51	0.45
7219/8-1S	NOR	93007-88	3096	3105	Cuttings	2789	2105	6445	2140	5236	10838	18716	15927	85.10	0.41
7219/8-1S	NOR	93007-88	3105	3114	Cuttings	2789	3028	9951	3056	7024	12318	25846	23058	89.21	0.44
7219/8-1S	NOR	93007-89	3114	3123	Cuttings	5345	3848	9303	3140	6391	11764	28028	22683	80.93	0.49
7219/8-1S	NOR	93007-90	3123	3132	Cuttings	1749	1595	5661	1709	4121	6153	14835	13086	88.21	0.41
7219/8-1S	NOR	93007-91	3132	3141	Cuttings	6029	3857	9195	2608	5998	11668	27688	21658	78.22	0.43
7219/8-1S	NOR	93007-92	3141	3150	Cuttings	6105	3822	9087	3880	8483	21776	31376	25271	80.54	0.46
7219/8-1S	NOR	93007-93	3150	3159	Cuttings	13710	7684	14723	4799	9815	19004	50730	37021	72.98	0.49
7219/8-1S	NOR	93007-94	3159	3168	Cuttings	1968	1399	4942	1483	3604	6549	13396	11428	85.31	0.41
7219/8-1S	NOR	93007-95	3168	3177	Cuttings	2512	2707	8179	2439	5856	10677	21693	19181	88.42	0.42
7219/8-1S	NOR	93007-96	3177	3186	Cuttings	2294	1748	5452	1863	4520	9965	15878	13583	85.55	0.41

Well	Nation	Sample Name	Upper Depth	Lower Depth	Sample Type	C1 uL/Kg	C2 uL/Kg	C3 uL/Kg	iC4 uL/Kg	nC4 uL/Kg	C5+ uL/Kg	SUM C1-C4	SUM C2-C4	Wetness %	iC4 nC4
7219/8-1S	NOR	93007-97	3186	3195	Cuttings	2669	1791	5531	2085	4770	10724	16845	14176	84.16	0.44
7219/8-1S	NOR	93007-98	3195	3204	Cuttings	7159	4891	11864	3669	7845	11523	35429	28270	79.79	0.47
7219/8-1S	NOR	93007-99	3204	3213	Cuttings	7289	6547	15704	4345	9049	13582	42932	35644	83.02	0.48
7219/8-1S	NOR	93007-100	3213	3222	Cuttings	7544	6779	16416	5403	10460	16487	46602	39058	83.81	0.52
7219/8-1S	NOR	93007-101	3222	3231	Cuttings	3081	2380	7646	2772	6554	14023	22433	19352	86.26	0.42
7219/8-1S	NOR	93007-102	3231	3240	Cuttings	4267	3179	9166	3915	8196	19631	28723	24456	85.14	0.48
7219/8-1S	NOR	93007-103	3240	3249	Cuttings	7750	3826	7613	3041	5745	12474	27975	20225	72.30	0.53
7219/8-1S	NOR	93007-104	3249	3258	Cuttings	2217	1224	2962	1112	2547	8227	10062	7845	77.97	0.44
7219/8-1S	NOR	93007-105	3258	3267	Cuttings	3097	1953	3898	1322	2605	4835	12874	9778	75.95	0.51
7219/8-1S	NOR	93007-106	3267	3276	Cuttings	4018	3076	31036	2065	4588	9249	44782	40764	91.03	0.45
7219/8-1S	NOR	93007-107	3276	3285	Cuttings	8769	5261	7472	1987	5966	12659	29455	20686	70.23	0.33
7219/8-1S	NOR	93007-108	3285	3294	Cuttings	7487	4245	5354	1434	2631	5198	21151	13665	64.60	0.55
7219/8-1S	NOR	93007-109	3294	3303	Cuttings	10322	6339	8061	2021	3937	6590	30680	20358	66.36	0.51
7219/8-1S	NOR	93007-110	3303	3312	Cuttings	8076	5353	7806	2162	4502	8985	27898	19822	71.05	0.48
7219/8-1S	NOR	93007-111	3312	3321	Cuttings	3520	2809	4961	1412	3049	4884	15752	12232	77.65	0.46
7219/8-1S	NOR	93007-112	3321	3330	Cuttings	5300	3857	6675	1970	4267	9563	22069	16768	75.98	0.46
7219/8-1S	NOR	93007-113	3330	3339	Cuttings	5975	4116	6979	2148	4685	10588	23903	17927	75.00	0.46
7219/8-1S	NOR	93007-114	3339	3348	Cuttings	5978	4008	6568	2022	4303	9264	22878	16900	73.87	0.47
7219/8-1S	NOR	93007-115	3348	3357	Cuttings	5816	3842	6619	2065	4444	11717	22786	16970	74.47	0.46
7219/8-1S	NOR	93007-116	3357	3366	Cuttings	5488	4179	6672	2164	4479	11373	22981	17493	76.12	0.48
7219/8-1S	NOR	93007-118	3375	3384	Cuttings	3082	2184	4151	1553	3254	8575	14224	11142	78.33	0.48
7219/8-1S	NOR	93007-119	3384	3393	Cuttings	1212	1021	2015	672	1485	5557	6404	5192	81.07	0.45
7219/8-1S	NOR	93007-120	3393	3402	Cuttings	1342	1294	4232	1731	4367	11246	12966	11624	89.65	0.40
7219/8-1S	NOR	93007-121	3402	3411	Cuttings	7955	6214	12162	4558	9402	22529	40291	32336	80.26	0.48
7219/8-1S	NOR	93007-122	3411	3420	Cuttings	7761	5639	11014	4002	8424	19082	36841	29079	78.93	0.48
7219/8-1S	NOR	93007-123	3420	3429	Cuttings	5150	5904	10502	3495	7044	16166	32096	26946	83.95	0.50
7219/8-1S	NOR	93007-124	3429	3438	Cuttings	4540	4991	10949	4085	15601	23070	40164	35624	88.70	0.26
7219/8-1S	NOR	93007-125	3438	3447	Cuttings	11868	11113	18144	6048	13387	25045	60558	48691	80.40	0.45
7219/8-1S	NOR	93007-126	3447	3456	Cuttings	11278	11376	17199	5225	10747	17759	55826	44548	79.80	0.49
7219/8-1S	NOR	93007-127	3456	3465	Cuttings	15628	13730	20410	6945	13089	23226	69801	54174	77.61	0.53
7219/8-1S	NOR	93007-128	3465	3474	Cuttings	9202	8149	13441	4594	9940	19746	45326	36124	79.70	0.46

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COMBINED HEADSPACE & OCCLUDED GAS DATA

Table 4

Well	Nation	Sample Name	Upper Depth	tower Depth	Sample Type	C1 uL/Kg	C2 uL/Kg	C3 uL/Kg	iC4 uL/Kg	nC4 uL/Kg	C5+ uL/Kg	SUM C1-C4	SUM C2-C4	Wetness %	iC4 nC4
7219/8-1S	NOR	93007-129	3474	3483	Cuttings	8146	6243	9915	3805	8186	15367	36295	28149	77.56	0.46
7219/8-1S	NOR	93007-130	3483	3492	Cuttings	7633	8442	13729	6085	11310	19466	47199	39566	83.83	0.54
7219/8-1S	NOR	93007-131	3492	3501	Cuttings	12851	10837	15429	6006	11491	17228	56614	43763	77.30	0.52
7219/8-1S	NOR	93007-132	3501	3510	Cuttings	8677	9089	14639	5718	11054	15857	49177	40500	82.35	0.52
7219/8-1S	NOR	93007-133	3510	3519	Cuttings	14182	11331	15831	6311	12005	18857	59660	45478	76.23	0.53
7219/8-1S	NOR	93007-134	3519	3528	Cuttings	12184	12756	19350	8151	15197	24628	67637	55454	81.99	0.54
7219/8-1S	NOR	93007-135	3528	3537	Cuttings	12670	13356	18755	7586	13612	20459	65979	53309	80.80	0.56
7219/8-1S	NOR	93007-136	3537	3546	Cuttings	8483	9321	14575	5883	10604	16718	48866	40383	82.64	0.55
7219/8-1S	NOR	93007-137	3546	3555	Cuttings	25116	21279	22953	7381	11849	17482	88577	63461	71.64	0.62
7219/8-1S	NOR	93007-138	3555	3564	Cuttings	11002	9005	11082	3504	5992	7959	40585	29583	72.89	0.58
7219/8-1S	NOR	93007-139	3564	3573	Cuttings	8641	8189	10929	3517	6266	9743	37543	28901	76.98	0.56
7219/8-1S	NOR	93007-140	3573	3582	Cuttings	5959	6972	10869	3743	6644	10656	34186	28227	82.57	0.56
7219/8-1S	NOR	93007-141	3582	3591	Cuttings	5595	5795	7853	2425	4176	6338	25844	20249	78.35	0.58
7219/8-1S	NOR	93007-142	3591	3600	Cuttings	5495	5905	7977	2609	4230	8003	26216	20721	79.04	0.62
7219/8-1S	NOR	93007-143	3600	3609	Cuttings	6995	6262	7168	2025	3276	5878	25727	18731	72.81	0.62
7219/8-1S	NOR	93007-144	3609	3618	Cuttings	8423	7939	8430	2413	3540	6122	30744	22321	72.60	0.68
7219/8-1S	NOR	93007-145	3618	3627	Cuttings	18113	20000	18375	5626	6885	10015	68998	50885	73.75	0.82
7219/8-1S	NOR	93007-146	3627	3636	Cuttings	8168	9291	10675	3659	4979	8596	36771	28603	77.79	0.73
7219/8-1S	NOR	93007-147	3636	3645	Cuttings	24418	27413	21381	7160	8994	15530	89367	64949	72.68	0.80
7219/8-1S	NOR	93007-148	3645	3654	Cuttings	10825	15859	12992	4397	5361	7219	49433	38608	78.10	0.82
7219/8-1S	NOR	93007-149	3654	3663	Cuttings	16235	23632	17717	5998	6257	7438	69839	53604	76.75	0.96
7219/8-1S	NOR	93007-150	3663	3672	Cuttings	15970	19129	22924	9188	11560	16689	78771	62802	79.73	0.79
7219/8-1S	NOR	93007-151	3672	3681	Cuttings	15477	14854	15980	6296	6898	10046	59506	44028	73.99	0.91
7219/8-1S	NOR	93007-152	3681	3690	Cuttings	9492	13399	14412	5585	5440	7018	48327	38835	80.36	1.03
7219/8-1S	NOR	93007-153	3690	3699	Cuttings	9199	13041	13846	5269	4986	7280	46342	37143	80.15	1.06
7219/8-1S	NOR	93007-154	3699	3708	Cuttings	10273	15108	15562	6114	5831	8254	52887	42614	80.58	1.05
7219/8-1S	NOR	93007-155	3708	3717	Cuttings	10711	14668	15943	6240	6211	8605	53774	43063	80.08	1.00
7219/8-1S	NOR	93007-156	3717	3726	Cuttings	11230	16308	17206	6447	6697	8987	57888	46657	80.60	0.96
7219/8-1S	NOR	93007-157	3726	3735	Cuttings	15484	16266	15187	5527	5223	7669	57687	42204	73.16	1.06
7219/8-1S	NOR	93007-158	3735	3744	Cuttings	8339	11640	12937	4905	4998	6984	42820	34481	80.52	0.98
7219/8-1S	NOR	93007-159	3744	3753	Cuttings	10800	13622	13555	5389	4621	6468	47986	37187	77.49	1.17
7219/8-1S	NOR	93007-160	3753	3762	Cuttings	15766	15374	14291	5960	4764	7124	56155	40389	71.92	1.25

Well	Nation	Sample Name	Upper Depth	tower Depth	Sample Type	C1 uL/Kg	C2 uL/Kg	C3 uL/Kg	iC4 uL/Kg	nC4 uL/Kg	C5+ uL/Kg	SUM C1=C4	SUM C2=C4	Wetness %	iC4 nC4
7219/8-1S	NOR	93007-161	3762	3771	Cuttings	18034	17084	14063	5270	4068	5686	58519	40485	69.18	1.30
7219/8-1S	NOR	93007-162	3771	3780	Cuttings	9420	10590	9717	3473	2909	3902	36109	26689	73.91	1.19
7219/8-1S	NOR	93007-163	3780	3789	Cuttings	18020	15383	11931	5183	3361	5976	53879	35859	66.55	1.54
7219/8-1S	NOR	93007-164	3789	3798	Cuttings	13080	13161	11858	5521	3695	5280	47315	34235	72.36	1.49
7219/8-1S	NOR	93007-165	3798	3807	Cuttings	14985	12583	10638	5700	3056	5630	46962	31977	68.09	1.86
7219/8-1S	NOR	93007-166	3807	3816	Cuttings	13255	11122	10113	5699	3165	5754	43355	30099	69.43	1.80
7219/8-1S	NOR	93007-167	3816	3825	Cuttings	16850	13317	10813	5844	2744	4388	49567	32717	66.01	2.13
7219/8-1S	NOR	93007-168	3825	3834	Cuttings	7082	5562	5575	3041	1722	3373	22981	15900	69.19	1.77
7219/8-1S	NOR	93007-169	3834	3843	Cuttings	8726	6739	6513	3554	1836	3427	27369	18642	68.12	1.94
7219/8-1S	NOR	93007-170	3843	3852	Cuttings	10060	6633	5353	2554	1290	2330	25890	15830	61.14	1.98
7219/8-1S	NOR	93007-171	3852	3861	Cuttings	4949	4290	4697	1984	1310	2501	17230	12281	71.28	1.51
7219/8-1S	NOR	93007-172	3861	3870	Cuttings	9384	4081	3544	1448	842	1542	19300	9915	51.37	1.72
7219/8-1S	NOR	93007-173	3870	3879	Cuttings	9246	3748	2926	1104	610	1173	17633	8388	47.57	1.81
7219/8-1S	NOR	93007-174	3879	3888	Cuttings	7307	3395	2470	896	447	685	14514	7207	49.66	2.01
7219/8-1S	NOR	93007-175	3888	3897	Cuttings	6849	4517	3006	1113	504	761	15989	9140	57.17	2.21
7219/8-1S	NOR	93007-176	3897	3906	Cuttings	8654	5132	3072	1088	516	825	18463	9809	53.13	2.11
7219/8-1S	NOR	93007-177	3906	3915	Cuttings	7922	1979	1179	316	215	400	11611	3689	31.77	1.47
7219/8-1S	NOR	93007-178	3915	3924	Cuttings	4329	1195	760	190	154	309	6628	2300	34.69	1.23
7219/8-1S	NOR	93007-179	3924	3933	Cuttings	8338	2104	1168	271	231	405	12112	3774	31.16	1.18
7219/8-1S	NOR	93007-180	3933	3942	Cuttings	7060	1852	1059	215	228	419	10413	3353	32.20	0.94
7219/8-1S	NOR	93007-181	3942	3951	Cuttings	5333	1212	989	268	350	760	8153	2819	34.58	0.77
7219/8-1S	NOR	93007-182	3951	3960	Cuttings	5509	1379	633	164	170	358	7855	2346	29.87	0.96
7219/8-1S	NOR	93007-183	3960	3969	Cuttings	7190	1545	793	152	292	426	9971	2781	27.89	0.52
7219/8-1S	NOR	93007-184	3969	3978	Cuttings	5162	1260	559	107	185	229	7273	2111	29.02	0.58
7219/8-1S	NOR	93007-185	3978	3987	Cuttings	5179	1262	775	178	247	362	7641	2462	32.22	0.72
7219/8-1S	NOR	93007-186	3987	3996	Cuttings	7351	1170	476	74	193	214	9265	1914	20.65	0.38
7219/8-1S	NOR	93007-187	3996	4005	Cuttings	8457	1383	484	72	168	200	10564	2107	19.94	0.43
7219/8-1S	NOR	93007-188	4005	4014	Cuttings	6044	1116	416	58	154	139	7789	1745	22.40	0.37
7219/8-1S	NOR	93007-189	4014	4023	Cuttings	9022	1404	463	83	219	235	11190	2168	19.38	0.38
7219/8-1S	NOR	93007-190	4023	4032	Cuttings	4655	857	317	62	128	177	6019	1364	22.66	0.49
7219/8-1S	NOR	93007-191	4032	4041	Cuttings	3890	641	199	36	84	97	4851	961	19.80	0.43
7219/8-1S	NOR	93007-192	4041	4050	Cuttings	5711	779	938	35	75	120	7539	1828	24.25	0.47

Well	Nation	Sample Name	Upper Depth	tower Depth	Sample Type	C1 uL/Kg	C2 uL/Kg	C3 uL/Kg	iC4 uL/Kg	nC4 uL/Kg	C5+ uL/Kg	SUM C1-C4	SUM C2-C4	Wetness %	iC4 nC4
7219/8-1S	NOR	93007-193	4050	4059	Cuttings	6129	705	225	47	88	191	7194	1065	14.81	0.53
7219/8-1S	NOR	93007-194	4059	4068	Cuttings	4340	688	206	50	76	96	5360	1020	19.04	0.65
7219/8-1S	NOR	93007-195	4068	4077	Cuttings	13586	1423	282	69	89	112	15449	1863	12.06	0.77
7219/8-1S	NOR	93007-196	4077	4086	Cuttings	12979	1613	302	71	81	57	15046	2066	13.73	0.87
7219/8-1S	NOR	93007-197	4086	4095	Cuttings	9359	1036	259	50	100	100	10804	1445	13.37	0.50
7219/8-1S	NOR	93007-198	4095	4104	Cuttings	9211	830	205	40	83	94	10369	1158	11.17	0.48
7219/8-1S	NOR	93007-199	4104	4113	Cuttings	13174	991	215	41	96	86	14517	1343	9.25	0.42
7219/8-1S	NOR	93007-200	4113	4122	Cuttings	8255	697	160	28	75	64	9216	961	10.43	0.38
7219/8-1S	NOR	93007-201	4122	4131	Cuttings	8504	1270	412	74	154	186	10414	1910	18.34	0.48
7219/8-1S	NOR	93007-202	4131	4140	Cuttings	5001	546	158	25	50	50	5780	779	13.47	0.51
7219/8-1S	NOR	93007-203	4140	4149	Cuttings	12305	839	247	41	107	101	13539	1234	9.12	0.38
7219/8-1S	NOR	93007-204	4149	4158	Cuttings	26050	1312	351	52	118	108	27884	1833	6.57	0.44
7219/8-1S	NOR	93007-205	4158	4167	Cuttings	19901	1034	338	57	127	88	21456	1555	7.25	0.45
7219/8-1S	NOR	93007-206	4167	4176	Cuttings	22158	1151	335	57	102	84	23804	1645	6.91	0.56
7219/8-1S	NOR	93007-207	4176	4185	Cuttings	34024	1571	323	42	70	43	36029	2005	5.57	0.60
7219/8-1S	NOR	93007-208	4185	4194	Cuttings	22014	1313	377	52	110	101	23867	1853	7.76	0.47
7219/8-1S	NOR	93007-209	4194	4203	Cuttings	27249	1299	424	69	120	206	29161	1912	6.56	0.57
7219/8-1S	NOR	93007-210	4203	4212	Cuttings	18841	1103	404	90	131	209	20569	1728	8.40	0.68
7219/8-1S	NOR	93007-211	4212	4221	Cuttings	62247	2451	519	68	101	122	65387	3139	4.80	0.67
7219/8-1S	NOR	93007-212	4221	4230	Cuttings	45981	2270	425	50	72	104	48798	2816	5.77	0.69
7219/8-1S	NOR	93007-213	4230	4239	Cuttings	56440	3485	701	92	134	79	60852	4412	7.25	0.69
7219/8-1S	NOR	93007-214	4239	4248	Cuttings	32540	2251	631	94	144	104	35659	3119	8.75	0.65
7219/8-1S	NOR	93007-215	4248	4257	Cuttings	63318	2978	729	112	195	118	67332	4014	5.96	0.57
7219/8-1S	NOR	93007-216	4257	4266	Cuttings	75534	3645	1010	144	211	125	80544	5010	6.22	0.68
7219/8-1S	NOR	93007-217	4278	4287	Cuttings	36864	2210	600	79	145	83	39898	3034	7.61	0.54
7219/8-1S	NOR	93007-218	4287	4296	Cuttings	46639	2380	480	50	79	83	49627	2988	6.02	0.63
7219/8-1S	NOR	93007-219	4296	4305	Cuttings	35931	3493	1085	153	217	109	40878	4947	12.10	0.71
7219/8-1S	NOR	93007-220	4305	4314	Cuttings	31919	2487	771	109	183	94	35469	3551	10.01	0.60
7219/8-1S	NOR	93007-221	4314	4323	Cuttings	45493	2697	687	96	164	75	49137	3644	7.42	0.59
7219/8-1S	NOR	93007-222	4323	4332	Cuttings	53295	1908	306	36	56	77	55601	2306	4.15	0.65
7219/8-1S	NOR	93007-223	4332	4341	Cuttings	21690	753	168	35	62	143	22708	1018	4.48	0.56
7219/8-1S	NOR	93007-224	4341	4350	Cuttings	12024	495	148	22	58	78	12748	723	5.67	0.38

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COMBINED HEADSPACE & OCCLUDED GAS DATA Table 4

Well	Nation	Sample Name	Upper Depth	Lower Depth	Sample Type	C1 uL/Kg	C2 uL/Kg	C3 uL/Kg	iC4 uL/Kg	nC4 uL/Kg	C5+ uL/Kg	SUM C1-C4	SUM C2-C4	Wetness %	iC4 nC4
7219/8-1S	NOR	93007-225	4350	4359	Cuttings	14835	471	165	31	67	122	15570	735	4.72	0.46
7219/8-1S	NOR	93007-226	4359	4368	Cuttings	14722	555	187	28	94	96	15586	865	5.55	0.30
7219/8-1S	NOR	93007-227	4368	4377	Cuttings	11074	443	147	28	73	112	11767	692	5.88	0.38
7219/8-1S	NOR	93007-228	4377	4386	Cuttings	8848	303	118	17	50	53	9336	488	5.23	0.35
7219/8-1S	NOR	93007-229	4386	4395	Cuttings	10983	409	155	23	97	84	11666	684	5.86	0.24
7219/8-1S	NOR	93007-230	4395	4404	Cuttings	7888	466	242	49	132	164	8777	889	10.13	0.37
7219/8-1S	NOR	93007-231	4404	4413	Cuttings	7129	417	207	42	108	122	7904	775	9.80	0.38
7219/8-1S	NOR	93007-232	4413	4422	Cuttings	6539	448	265	64	115	163	7432	893	12.01	0.56
7219/8-1S	NOR	93007-233	4422	4431	Cuttings	6396	687	511	170	240	510	8004	1608	20.09	0.71
7219/8-1S	NOR	93007-234	4431	4440	Cuttings	4455	1040	1375	452	827	1834	8150	3694	45.33	0.55
7219/8-1S	NOR	93007-235	4440	4449	Cuttings	8812	779	549	253	320	694	10713	1901	17.74	0.79
7219/8-1S	NOR	93007-236	4449	4458	Cuttings	4146	456	413	168	247	851	5431	1285	23.66	0.68
7219/8-1S	NOR	93007-237	4451	4460	Cuttings	4506	526	427	155	211	665	5826	1320	22.66	0.74
7219/8-1S	NOR	93007-238	4461	4470	Cuttings	4383	856	917	425	540	1539	7121	2738	38.45	0.79
7219/8-1S	NOR	93007-239	4470	4479	Cuttings	2884	276	277	105	166	379	3708	824	22.23	0.63
7219/8-1S	NOR	93007-240	4479	4488	Cuttings	6742	412	186	42	105	185	7487	745	9.95	0.40
7219/8-1S	NOR	93007-241	4488	4497	Cuttings	7236	379	157	34	107	164	7913	677	8.56	0.32
7219/8-1S	NOR	93007-242	4497	4506	Cuttings	5515	306	142	24	81	141	6069	554	9.12	0.30
7219/8-1S	NOR	93007-243	4506	4515	Cuttings	3586	218	110	15	46	134	3976	390	9.81	0.33
7219/8-1S	NOR	93007-244	4515	4524	Cuttings	4925	287	140	28	58	128	5438	513	9.44	0.50
7219/8-1S	NOR	93007-245	4524	4533	Cuttings	3478	319	205	63	113	254	4178	700	16.76	0.56
7219/8-1S	NOR	93007-246	4533	4542	Cuttings	5571	306	244	101	140	478	6364	792	12.45	0.72
7219/8-1S	NOR	93007-247	4542	4551	Cuttings	5885	305	242	99	137	398	6668	783	11.75	0.72
7219/8-1S	NOR	93007-248	4551	4560	Cuttings	1777	88	42	8	22	75	1937	160	8.26	0.36
7219/8-1S	NOR	93007-249	4560	4569	Cuttings	2948	130	69	17	41	121	3205	257	8.01	0.40
7219/8-1S	NOR	93007-250	4569	4578	Cuttings	2065	114	62	15	37	108	2293	228	9.93	0.41
7219/8-1S	NOR	93007-251	4578	4587	Cuttings	3234	226	111	35	63	270	3670	436	11.88	0.55
7219/8-1S	NOR	93007-252	4584	4593	Cuttings	2280	79	57	24	37	124	2477	197	7.95	0.65

GAS ISOTOPE DATA Table 5

Well	Nation	Sample name	Upper Depth	Lower Depth	Sample	del G13 C1	del C13 C2	del C13 C3	del C13 C4 *	del D C1
7219/8-1S	NOR	93007-10	2380	2390	Cuttings	-38.9	-29.7	-29.7	-28.2	N.D.
7219/8-1S	NOR	93007-12	2400	2410	Cuttings	(-17.6)	(-23.1)	-25.8	-26.4	N.D.
7219/8-1S	NOR	93007-29	2565	2574	Cuttings	(-16.7)	N.D.	N.D.	N.D.	N.D.
7219/8-1S	NOR	93007-34	2610	2619	Cuttings	-40.5	-29.4	-27.1	-26.0	N.D.
7219/8-1S	NOR	93007-56	2808	2817	Cuttings	-31.5	-30.6	-25.8	-28.6	N.D.
7219/8-1S	NOR	93007-76	2988	2997	Cuttings	-40.6	-30.3	-25.7	-27.3	N.D.
7219/8-1S	NOR	93007-93	3150	3159	Cuttings	-39.0	-29.1	-25.1	-25.7	N.D.
7219/8-1S	NOR	93007-103	3240	3249	Cuttings	-39.4	-28.7	-24.7	-26.0	N.D.
7219/8-1S	NOR	93007-120	3393	3402	Cuttings	-38.6	-28.4	-24.9	-26.7	N.D.
7219/8-1S	NOR	93007-131	3492	3501	Cuttings	-40.9	-27.2	-25.2	-25.5	N.D.
7219/8-1S	NOR	93007-141	3582	3591	Cuttings	-40.6	N.D.	-23.9	-25.5	N.D.
7219/8-1S	NOR	93007-164	3789	3798	Cuttings	-39.7	-25.5	-21.1	-22.5	N.D.
7219/8-1S	NOR	93007-175	3888	3897	Cuttings	-38.2	-24.1	-20.8	-19.3	N.D.
7219/8-1S	NOR	93007-186	3987	3996	Cuttings	-35.5	-23.0	N.D.	N.D.	N.D.
7219/8-1S	NOR	93007-197	4086	4095	Cuttings	-33.5	-23.1	-25.3	N.D.	N.D.
7219/8-1S	NOR	93007-208	4185	4194	Cuttings	-35.7	-27.4	N.D.	N.D.	N.D.
7219/8-1S	NOR	93007-218	4287	4296	Cuttings	-35.5	-24.2	N.D.	N.D.	N.D.
7219/8-1S	NOR	93007-230	4395	4404	Cuttings	-36.6	-29.8	-29.7	N.D.	N.D.
7219/8-1S	NOR	93007-241	4488	4497	Cuttings	(-14.3)	N.D.	N.D.	N.D.	N.D.

N.D. not determinable

* - iC4 and nC4 determined in one fraction.

(X) - questionable results but not enough gas remains to repeat.

Well Name	Nation	Sample Number	Lower Depth	Upper Depth	Sample Type	S1 mg/g	S2 mg/g	S3 mg/g	Tmax deg C	TOC % Wt	HI	Of	PI	PP ro/g
7219/8-1S	NOR	93007-253	1015	1020	Ctgs	1.13	4.40	2.32	384				0.20	5.53
7219/8-1S	NOR	93007-254	1025	1030	Ctgs	0.47	2.59	2.61	377				0.15	3.06
7219/8-1S	NOR	93007-255	1035	1040	Ctgs	0.61	3.19	3.18	378				0.16	3.80
7219/8-1S	NOR	93007-256	1045	1050	Ctgs	0.58	2.62	2.67	373	1.15	228	232	0.18	3.20
7219/8-1S	NOR	93007-257	1055	1060	Ctgs	0.37	1.65	4.97	378				0.18	2.02
7219/8-1S	NOR	93007-258	1065	1070	Ctgs	0.50	2.10	1.37	371				0.19	2.60
7219/8-1S	NOR	93007-259	1075	1080	Ctgs	0.36	1.61	1.41	374				0.18	1.97
7219/8-1S	NOR	93007-260	1085	1090	Ctgs	0.53	2.44	1.75	374	1.14	212	152	0.18	2.97
7219/8-1S	NOR	93007-261	1095	1100	Ctgs	0.66	4.95	2.48	399				0.12	5.61
7219/8-1S	NOR	93007-262	1105	1110	Ctgs	0.81	3.40	1.91	378				0.19	4.21
7219/8-1S	NOR	93007-263	1115	1120	Ctgs	0.85	3.20	1.60	376				0.21	4.05
7219/8-1S	NOR	93007-264	1125	1130	Ctgs	0.97	2.55	1.68	366	1.06	222	146	0.28	3.52
7219/8-1S	NOR	93007-265	1135	1140	Ctgs	1.07	3.38	1.97	374				0.24	4.45
7219/8-1S	NOR	93007-266	1145	1150	Ctgs	0.87	2.63	1.69	370				0.25	3.50
7219/8-1S	NOR	93007-267	1155	1160	Ctgs	1.17	3.08	1.68	370				0.28	4.25
7219/8-1S	NOR	93007-268	1165	1170	Ctgs	0.88	2.96	1.33	372	1.10	257	116	0.23	3.84
7219/8-1S	NOR	93007-269	1175	1180	Ctgs	0.89	2.33	0.92	366				0.28	3.22
7219/8-1S	NOR	93007-270	1185	1190	Ctgs	0.67	2.47	0.87	375				0.21	3.14
7219/8-1S	NOR	93007-271	1195	1200	Ctgs	0.69	2.75	1.22	374				0.20	3.44
7219/8-1S	NOR	93007-272	1205	1210	Ctgs	0.87	2.45	0.80	366	0.96	255	83	0.26	3.32
7219/8-1S	NOR	93007-273	1215	1220	Ctgs	0.65	2.88	1.54	381				0.18	3.53
7219/8-1S	NOR	93007-274	1225	1230	Ctgs	0.80	2.86	0.76	369				0.22	3.66
7219/8-1S	NOR	93007-275	1235	1240	Ctgs	1.01	3.27	0.92	372				0.24	4.28
7219/8-1S	NOR	93007-276	1245	1250	Ctgs	0.49	1.95	1.55	373	1.02	191	152	0.20	2.44
7219/8-1S	NOR	93007-277	1255	1260	Ctgs	0.71	2.61	1.19	378				0.21	3.32
7219/8-1S	NOR	93007-278	1265	1270	Ctgs	0.66	2.29	0.85	374				0.22	2.95
7219/8-1S	NOR	93007-279	1275	1280	Ctgs	0.67	2.36	0.99	374				0.22	3.03
7219/8-1S	NOR	93007-280	1285	1290	Ctgs	0.52	1.81	0.95	374	0.79	229	120	0.22	2.33
7219/8-1S	NOR	93007-281	1295	1300	Ctgs	0.66	2.15	0.84	373				0.23	2.81
7219/8-1S	NOR	93007-282	1305	1310	Ctgs	0.38	2.56	1.56	379				0.13	2.94
7219/8-1S	NOR	93007-283	1315	1320	Ctgs	0.52	1.92	0.65	376				0.21	2.44
7219/8-1S	NOR	93007-284	1325	1330	Ctgs	0.53	1.65	0.55	371	0.81	204	68	0.24	2.18
7219/8-1S	NOR	93007-285	1335	1340	Ctgs	0.56	1.67	0.53	373				0.25	2.23
7219/8-1S	NOR	93007-286	1345	1350	Ctgs	0.42	1.60	0.62	373				0.21	2.02
7219/8-1S	NOR	93007-287	1355	1360	Ctgs	0.57	1.48	0.48	367				0.28	2.05
7219/8-1S	NOR	93007-288	1365	1380	Ctgs	0.62	1.85	0.45	371	0.75	247	60	0.25	2.47

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TOC & ROCK EVAL PYROLYSIS DATA (washed cuttings) Table 6

Well Name	Nation	Sample Number	Lower Depth	Upper Depth	Sample Type	S1 mg/g	S2 mg/g	S3 mg/g	Tmax deg C	TOC % Wt	Ht	OI	PI	PP mg/g
7219/8-1S	NOR	93007-289	1385	1390	Ctgs	0.48	1.77	0.39	372				0.21	2.25
7219/8-1S	NOR	93007-290	1395	1400	Ctgs	0.37	1.36	0.27	372				0.21	1.73
7219/8-1S	NOR	93007-291	1405	1410	Ctgs	0.57	2.18	0.50	376				0.21	2.75
7219/8-1S	NOR	93007-292	1415	1420	Ctgs	0.63	2.05	0.53	377	0.75	273	71	0.24	2.68
7219/8-1S	NOR	93007-293	1425	1430	Ctgs	0.73	2.33	0.48	375				0.24	3.06
7219/8-1S	NOR	93007-294	1435	1440	Ctgs	0.78	2.52	0.72	380				0.24	3.30
7219/8-1S	NOR	93007-295	1445	1450	Ctgs	0.93	2.13	0.84	365				0.30	3.06
7219/8-1S	NOR	93007-296	1455	1460	Ctgs	1.22	2.32	0.63	364	0.75	309	84	0.34	3.54
7219/8-1S	NOR	93007-297	1465	1470	Ctgs	0.86	2.65	0.90	373				0.25	3.51
7219/8-1S	NOR	93007-298	1475	1480	Ctgs	0.89	2.68	0.74	371				0.25	3.57
7219/8-1S	NOR	93007-299	1485	1490	Ctgs	0.81	2.65	0.51	372				0.23	3.46
7219/8-1S	NOR	93007-300	1495	1500	Ctgs	1.05	2.92	0.52	369	0.87	336	60	0.26	3.97
7219/8-1S	NOR	93007-301	1505	1510	Ctgs	1.16	2.66	0.68	366				0.30	3.82
7219/8-1S	NOR	93007-302	1515	1520	Ctgs	1.22	2.44	0.78	363				0.33	3.66
7219/8-1S	NOR	93007-303	1525	1530	Ctgs	1.01	2.84	0.87	367				0.26	3.85
7219/8-1S	NOR	93007-304	1535	1540	Ctgs	0.79	2.25	0.88	366	0.73	308	121	0.26	3.04
7219/8-1S	NOR	93007-305	1545	1550	Ctgs	0.85	2.64	0.92	369				0.24	3.49
7219/8-1S	NOR	93007-306	1555	1560	Ctgs	0.91	2.93	1.44	371				0.24	3.84
7219/8-1S	NOR	93007-307	1565	1570	Ctgs	0.92	3.99	1.73	371				0.19	4.91
7219/8-1S	NOR	93007-308	1575	1580	Ctgs	0.19	0.36	1.02	390	1.48	24	69	0.35	0.55
7219/8-1S	NOR	93007-309	1585	1590	Ctgs	1.09	3.13	1.49	362				0.26	4.22
7219/8-1S	NOR	93007-310	1595	1600	Ctgs	1.18	3.12	1.57	361				0.27	4.30
7219/8-1S	NOR	93007-311	1605	1610	Ctgs	1.48	4.26	2.00	366				0.26	5.74
7219/8-1S	NOR	93007-312	1625	1630	Ctgs	1.16	3.08	0.85	360	1.41	218	60	0.27	4.24
7219/8-1S	NOR	93007-313	1635	1640	Ctgs	0.98	2.84	1.22	362				0.26	3.82
7219/8-1S	NOR	93007-314	1645	1650	Ctgs	1.56	3.79	1.62	364				0.29	5.35
7219/8-1S	NOR	93007-315	1655	1660	Ctgs	1.40	4.52	2.59	364				0.24	5.92
7219/8-1S	NOR	93007-316	1665	1670	Ctgs	1.75	4.69	2.61	367	1.62	290	161	0.27	6.44
7219/8-1S	NOR	93007-317	1675	1680	Ctgs	1.73	4.63	2.46	367				0.27	6.36
7219/8-1S	NOR	93007-318	1685	1690	Ctgs	1.62	4.07	1.52	365				0.28	5.69
7219/8-1S	NOR	93007-319	1695	1700	Ctgs	1.52	4.00	2.01	363				0.28	5.52
7219/8-1S	NOR	93007-320	1705	1710	Ctgs	1.67	4.14	1.80	363	1.61	257	112	0.29	5.81
7219/8-1S	NOR	93007-321	1715	1720	Ctgs	1.38	3.96	1.87	363				0.26	5.34
7219/8-1S	NOR	93007-322	1725	1730	Ctgs	1.36	4.15	2.28	367				0.25	5.51
7219/8-1S	NOR	93007-323	1735	1740	Ctgs	0.72	2.85	1.33	380				0.20	3.57
7219/8-1S	NOR	93007-324	1745	1750	Ctgs	0.88	3.02	1.73	369	1.70	178	102	0.23	3.90

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TOC & ROCK EVAL PYROLYSIS DATA (washed cuttings) Table 6

Well	Nation	Sample name	Upper depth	Lower depth	Sample Type	S1 mg/g	32 mg/g	33 mg/g	Tmax deg C	TOC % Wt	HI	OI	PI	PP mg/g
7219/8-1S	NOR	93007-576	2140	2150	CUT	0.42	1.85	2.68		1.10	168	244	0.19	2.27
7219/8-1S	NOR	93007-577	2160	2170	CUT	0.56	2.00	1.86		1.05	190	177	0.22	2.56
7219/8-1S	NOR	93007-578	2180	2190	CUT	0.33	1.30	1.49		1.10	118	135	0.20	1.63
7219/8-1S	NOR	93007-579	2200	2210	CUT	0.51	1.52	1.52		1.08	141	141	0.25	2.03
7219/8-1S	NOR	93007-580	2220	2230	CUT	0.44	1.66	1.32		1.27	131	104	0.21	2.10
7219/8-1S	NOR	93007-581	2240	2250	CUT	0.58	2.13	1.50		1.42	150	106	0.21	2.71
7219/8-1S	NOR	93007-582	2260	2270	CUT	0.69	2.11	1.00		1.25	169	80	0.25	2.80
7219/8-1S	NOR	93007-583	2280	2290	CUT	0.89	2.40	1.01		1.31	183	77	0.27	3.29
7219/8-1S	NOR	93007-2	2300	2310	CUT	0.22	1.50	0.73	436	1.29	116	57	0.13	1.72
7219/8-1S	NOR	93007-4	2320	2330	CUT	0.25	1.48	0.79	436	1.29	115	61	0.14	1.73
7219/8-1S	NOR	93007-6	2340	2350	CUT	0.23	1.53	0.91	437	1.33	115	68	0.13	1.76
7219/8-1S	NOR	93007-8	2360	2370	CUT	0.22	1.44	0.75	437	1.25	115	60	0.13	1.66
7219/8-1S	NOR	93007-10	2380	2390	CUT	0.31	1.49	1.01	438	1.34	111	75	0.17	1.80
7219/8-1S	NOR	93007-12	2400	2410	CUT	0.32	1.36	0.86	438	1.32	103	65	0.19	1.68
7219/8-1S	NOR	93007-14	2420	2430	CUT	0.29	1.34	0.82	437	1.35	99	61	0.18	1.63
7219/8-1S	NOR	93007-16	2440	2450	CUT	0.22	1.32	0.97	440	1.32	100	73	0.14	1.54
7219/8-1S	NOR	93007-18	2460	2470	CUT	0.19	1.10	1.00	423	1.21	91	83	0.15	1.29
7219/8-1S	NOR	93007-20	2480	2490	CUT	0.24	1.29	1.02	421	1.23	105	83	0.16	1.53
7219/8-1S	NOR	93007-22	2500	2510	CUT	0.32	1.78	0.68		1.23	145	55	0.15	2.10
7219/8-1S	NOR	93007-24	2520	2529	CUT	0.37	1.97	0.90		1.23	160	73	0.16	2.34
7219/8-1S	NOR	93007-26	2541	2550	CUT	0.25	1.04	0.73		1.06	98	69	0.19	1.29
7219/8-1S	NOR	93007-29	2565	2574	CUT	0.28	1.33	0.71		1.16	115	61	0.17	1.61
7219/8-1S	NOR	93007-31	2583	2592	CUT	0.34	1.66	0.76		1.07	155	71	0.17	2.00
7219/8-1S	NOR	93007-33	2601	2610	CUT	0.49	1.45	0.69		1.16	125	59	0.25	1.94
7219/8-1S	NOR	93007-35	2619	2628	CUT	0.57	2.09	0.71	441	1.89	111	38	0.21	2.66
7219/8-1S	NOR	93007-37	2637	2646	CUT	0.54	2.17	0.82	442	1.75	124	47	0.20	2.71
7219/8-1S	NOR	93007-39	2655	2664	CUT	0.55	2.14	0.79	441	1.85	116	43	0.20	2.69
7219/8-1S	NOR	93007-41	2673	2682	CUT	0.55	2.15	1.03	440	1.95	110	53	0.20	2.70
7219/8-1S	NOR	93007-43	2691	2700	CUT	0.47	2.08	0.95	442	1.89	110	50	0.18	2.55
7219/8-1S	NOR	93007-45	2709	2718	CUT	0.54	2.44	1.00	441	1.98	123	51	0.18	2.98

Well	Nation	Sample name	Upper depth	Lower depth	Sample Type	S1 mg/g	S2 mg/g	S3 mg/g	Tmax deg C	TOC % Wt	HI	OI	PI	pp mg/g
7219/8-1S	NOR	93007-47	2727	2736	CUT	0.54	2.06	0.74	442	1.88	110	39	0.21	2.60
7219/8-1S	NOR	93007-49	2745	2754	CUT	0.54	2.03	0.75	443	1.99	102	38	0.21	2.57
7219/8-1S	NOR	93007-51	2763	2772	CUT	0.48	1.94	1.29	442	2.01	97	64	0.20	2.42
7219/8-1S	NOR	93007-53	2781	2790	CUT	0.53	2.26	1.08	443	2.05	110	53	0.19	2.79
7219/8-1S	NOR	93007-55	2799	2808	CUT	0.49	1.56	1.34	446	1.90	82	71	0.24	2.05
7219/8-1S	NOR	93007-57	2817	2826	CUT	0.39	1.44	2.28	446	1.89	76	121	0.21	1.83
7219/8-1S	NOR	93007-59	2835	2844	CUT	0.30	0.98	2.82	449	1.63	60	173	0.23	1.28
7219/8-1S	NOR	93007-61	2853	2862	CUT	0.37	1.11	2.42	445	1.53	73	158	0.25	1.48
7219/8-1S	NOR	93007-63	2871	2880	CUT	0.48	1.39	2.33	446	1.82	76	128	0.26	1.87
7219/8-1S	NOR	93007-65	2889	2898	CUT	0.55	1.52	1.25	448	2.00	76	63	0.27	2.07
7219/8-1S	NOR	93007-67	2907	2916	CUT	0.51	1.15	1.10	441	1.50	77	73	0.31	1.66
7219/8-1S	NOR	93007-69	2925	2934	CUT	0.94	3.16	2.80	449	3.14	101	89	0.23	4.10
7219/8-1S	NOR	93007-71	2943	2952	CUT	1.53	3.82	2.15	449	3.44	111	63	0.29	5.35
7219/8-1S	NOR	93007-73	2961	2970	CUT	2.29	5.37	1.55	448	4.42	121	35	0.30	7.66
7219/8-1S	NOR	93007-75	2979	2988	CUT	1.36	3.65	1.58	449	3.23	113	49	0.27	5.01
7219/8-1S	NOR	93007-77	2997	3006	CUT	1.14	3.23	1.90	450	3.07	105	62	0.26	4.37
7219/8-1S	NOR	93007-79	3020	3029	CUT	1.04	3.22	2.41	451	3.24	99	74	0.24	4.26
7219/8-1S	NOR	93007-82	3042	3051	CUT	1.40	3.73	2.14	457	3.58	104	60	0.27	5.13
7219/8-1S	NOR	93007-84	3060	3069	CUT	1.31	3.27	2.30	455	3.36	97	68	0.29	4.58
7219/8-1S	NOR	93007-86	3078	3087	CUT	1.38	3.20	2.91	454	3.33	96	87	0.30	4.58
7219/8-1S	NOR	93007-88	3096	3105	CUT	1.73	3.80	2.61	457	3.49	109	75	0.31	5.53
7219/8-1S	NOR	93007-90	3123	3132	CUT	1.75	4.50	3.82	405	3.76	120	102	0.28	6.25
7219/8-1S	NOR	93007-92	3141	3150	CUT	2.10	3.69	3.87	437	3.31	111	117	0.36	5.79
7219/8-1S	NOR	93007-94	3159	3168	CUT	1.74	4.23	1.98	458	4.10	103	48	0.29	5.97
7219/8-1S	NOR	93007-96	3177	3186	CUT	2.10	4.28	3.02		3.85	111	78	0.33	6.38
7219/8-1S	NOR	93007-98	3200	3209	CUT	1.28	2.77	2.78	463	3.70	75	75	0.32	4.05
7219/8-1S	NOR	93007-101	3222	3231	CUT	1.62	3.26	2.87	461	3.54	92	81	0.33	4.88
7219/8-1S	NOR	93007-103	3240	3249	CUT	2.02	3.67	4.71		2.92	126	161	0.36	5.69
7219/8-1S	NOR	93007-105	3258	3267	CUT	1.92	4.18	2.80		2.81	149	100	0.31	6.10
7219/8-1S	NOR	93007-107	3276	3285	CUT	1.57	3.30	2.34	465	3.50	94	67	0.32	4.87
7219/8-1S	NOR	93007-110	3303	3312	CUT	1.69	3.72	1.92	408	3.34	111	57	0.31	5.41

Well	Nation	Sample name	Upper depth	Lower depth	Sample Type	St mg/g	S2 mg/g	33 ro/g	Tmax deg C	TOC % Wt	HI	OI	PI	PP mg/g
7219/8-1S	NOR	93007-112	3321	3330	CUT	1.60	3.13	1.44	407	3.25	96	44	0.34	4.73
7219/8-1S	NOR	93007-114	3339	3348	CUT	1.61	3.38	1.43		2.86	118	50	0.32	4.99
7219/8-1S	NOR	93007-116	3357	3366	CUT	1.61	3.50	1.63		2.60	135	63	0.32	5.11
7219/8-1S	NOR	93007-118	3375	3384	CUT	1.40	2.81	1.54		2.54	111	61	0.33	4.21
7219/8-1S	NOR	93007-121	3402	3411	CUT	0.53	0.93	2.34	475	1.69	55	138	0.36	1.46
7219/8-1S	NOR	93007-123	3420	3429	CUT	0.60	1.21	1.89	475	1.62	75	117	0.33	1.81
7219/8-1S	NOR	93007-125	3438	3447	CUT	0.74	1.30	2.09	476	1.95	67	107	0.36	2.04
7219/8-1S	NOR	93007-126	3447	3456	CUT	0.82	1.33	1.65	474	1.82	73	91	0.38	2.15
7219/8-1S	NOR	93007-127	3456	3465	CUT	0.74	1.28	1.53	424	1.64	78	93	0.37	2.02
7219/8-1S	NOR	93007-128	3465	3474	CUT	0.69	1.19	1.54	473	1.60	74	96	0.37	1.88
7219/8-1S	NOR	93007-129	3474	3483	CUT	0.79	1.12	1.06	462	1.87	60	57	0.41	1.91
7219/8-1S	NOR	93007-130	3483	3492	CUT	0.85	1.12	0.91	462	1.93	58	47	0.43	1.97
7219/8-1S	NOR	93007-131	3492	3501	CUT	1.05	1.21	0.85	455	2.14	57	40	0.46	2.26
7219/8-1S	NOR	93007-132	3501	3510	CUT	1.22	1.45	0.67	458	2.77	52	24	0.46	2.67
7219/8-1S	NOR	93007-133	3510	3519	CUT	1.14	1.18	0.97	454	2.47	48	39	0.49	2.32
7219/8-1S	NOR	93007-134	3519	3528	CUT	1.38	1.51	0.72	407	2.75	55	26	0.48	2.89
7219/8-1S	NOR	93007-135	3528	3537	CUT	1.23	1.42	0.63	454	2.75	52	23	0.46	2.65
7219/8-1S	NOR	93007-136	3537	3546	CUT	1.11	1.35	0.91	458	2.54	53	36	0.45	2.46
7219/8-1S	NOR	93007-137	3546	3555	CUT	1.14	1.69	0.96	442	2.61	65	37	0.40	2.83
7219/8-1S	NOR	93007-138	3555	3564	CUT	0.81	1.44	1.09	479	2.38	61	46	0.36	2.25
7219/8-1S	NOR	93007-139	3564	3573	CUT	0.78	1.36	1.04	437	2.42	56	43	0.36	2.14
7219/8-1S	NOR	93007-140	3573	3582	CUT	0.78	1.46	1.05	481	2.43	60	43	0.35	2.24
7219/8-1S	NOR	93007-141	3582	3591	CUT	0.79	1.48	0.98	480	2.39	62	41	0.35	2.27
7219/8-1S	NOR	93007-142	3591	3600	CUT	0.62	1.28	1.50	425	2.09	61	72	0.33	1.90
7219/8-1S	NOR	93007-143	3600	3609	CUT	0.53	1.07	1.58	432	2.00	54	79	0.33	1.60
7219/8-1S	NOR	93007-144	3609	3618	CUT	0.61	1.23	1.19	433	2.30	53	52	0.33	1.84
7219/8-1S	NOR	93007-145	3618	3627	CUT	1.11	2.16	1.18	489	3.58	60	33	0.34	3.27
7219/8-1S	NOR	93007-146	3627	3636	CUT	0.67	1.23	1.29	485	2.58	48	50	0.35	1.90
7219/8-1S	NOR	93007-147	3636	3645	CUT	0.97	1.88	1.12	486	3.10	61	36	0.34	2.85
7219/8-1S	NOR	93007-148	3645	3654	CUT	0.87	1.74	1.57	486	3.13	56	50	0.33	2.61
7219/8-1S	NOR	93007-149	3654	3663	CUT	0.84	1.71	1.96	490	3.44	50	57	0.33	2.55

Well	Nation	Sample name	Upper depth	Lower depth	Sample Type	S1 rog/g	S2 mg/g	S3 mg/g	Tmax deg C	TOC % Wt	HI	OI	Pi	PP mg/g
7219/8-1S	NOR	93007-150	3663	3672	CUT	0.81	1.55	2.52	488	3.08	50	82	0.34	2.36
7219/8-1S	NOR	93007-151	3672	3681	CUT	0.63	1.33	1.81	484	2.68	50	68	0.32	1.96
7219/8-1S	NOR	93007-152	3681	3690	CUT	0.85	1.66	1.48	455	3.19	52	46	0.34	2.51
7219/8-1S	NOR	93007-153	3690	3699	CUT	0.59	1.37	1.58	492	3.13	44	50	0.30	1.96
7219/8-1S	NOR	93007-154	3699	3708	CUT	0.86	1.69	1.48	489	3.17	53	47	0.34	2.55
7219/8-1S	NOR	93007-155	3708	3717	CUT	0.75	1.52	1.54	461	3.09	49	50	0.33	2.27
7219/8-1S	NOR	93007-156	3717	3726	CUT	0.84	1.68	1.42	488	3.24	52	44	0.33	2.52
7219/8-1S	NOR	93007-157	3726	3735	CUT	0.79	1.65	1.63	493	3.16	52	52	0.32	2.44
7219/8-1S	NOR	93007-158	3735	3744	CUT	0.74	1.48	1.68	489	3.26	45	52	0.33	2.22
7219/8-1S	NOR	93007-159	3744	3753	CUT	0.58	1.37	1.95	492	2.98	46	65	0.30	1.95
7219/8-1S	NOR	93007-160	3753	3762	CUT	0.43	1.07	1.78	497	2.74	39	65	0.29	1.50
7219/8-1S	NOR	93007-161	3762	3771	CUT	0.54	1.41	1.74	495	2.92	48	60	0.28	1.95
7219/8-1S	NOR	93007-162	3771	3780	CUT	0.39	0.94	1.85	499	2.65	35	70	0.29	1.33
7219/8-1S	NOR	93007-163	3780	3789	CUT	0.32	0.88	2.21	449	2.04	43	108	0.27	1.20
7219/8-1S	NOR	93007-164	3789	3798	CUT	0.46	1.24	2.37	498	2.68	46	88	0.27	1.70
7219/8-1S	NOR	93007-165	3798	3807	CUT	0.34	0.85	2.54	442	1.96	43	130	0.29	1.19
7219/8-1S	NOR	93007-166	3807	3816	CUT	0.34	0.89	1.97	437	2.03	44	97	0.28	1.23
7219/8-1S	NOR	93007-167	3816	3825	CUT	0.32	0.87	1.74	470	2.14	41	81	0.27	1.19
7219/8-1S	NOR	93007-168	3825	3834	CUT	0.27	0.68	2.36	444	1.97	35	120	0.28	0.95
7219/8-1S	NOR	93007-169	3834	3843	CUT	0.30	0.82	2.09	493	2.28	36	92	0.27	1.12
7219/8-1S	NOR	93007-170	3843	3852	CUT	0.25	0.83	1.83	436	1.95	43	94	0.23	1.08
7219/8-1S	NOR	93007-171	3852	3861	CUT	0.22	0.72	2.23	478	1.93	37	116	0.23	0.94
7219/8-1S	NOR	93007-172	3861	3870	CUT	0.12	0.39	2.21	459	1.46	27	151	0.24	0.51
7219/8-1S	NOR	93007-173	3870	3879	CUT	0.11	0.34	2.29		1.29	26	178	0.24	0.45
7219/8-1S	NOR	93007-174	3879	3888	CUT	0.12	0.38	2.22	400	1.54	25	144	0.24	0.50
7219/8-1S	NOR	93007-175	3888	3897	CUT	0.13	0.46	2.14	469	1.71	27	125	0.22	0.59
7219/8-1S	NOR	93007-176	3897	3906	CUT	0.20	0.62	2.57	433	1.80	34	143	0.24	0.82
7219/8-1S	NOR	93007-177	3906	3915	CUT	0.11	0.30	2.73	400	1.23	24	222	0.27	0.41
7219/8-1S	NOR	93007-178	3915	3924	CUT	0.10	0.24	2.64		1.17	21	226	0.29	0.34
7219/8-1S	NOR	93007-179	3924	3933	CUT	0.13	0.27	3.13		0.98	28	319	0.33	0.40
7219/8-1S	NOR	93007-180	3933	3942	CUT	0.08	0.15	2.78		1.03	15	270	0.35	0.23

Well	Nation	Sample name	Upper depth	Lower depth	Sample Type	31 mg/g	S2 mg/g	S3 mg/g	Tmax deg C	TOC % Wt	HI	OI	Pi	PP mg/g
7219/8-1S	NOR	93007-181	3942	3951	CUT	0.29	0.68	3.82	437	1.48	46	258	0.30	0.97
7219/8-1S	NOR	93007-182	3951	3960	CUT	0.20	0.34	3.93		1.13	30	348	0.37	0.54
7219/8-1S	NOR	93007-183	3960	3969	CUT	0.13	0.25	3.41		1.14	22	299	0.34	0.38
7219/8-1S	NOR	93007-184	3969	3978	CUT	0.17	0.34	3.73		1.22	28	306	0.33	0.51
7219/8-1S	NOR	93007-185	3978	3987	CUT	0.14	0.24	3.41		1.11	22	307	0.37	0.38
7219/8-1S	NOR	93007-186	3987	3996	CUT	0.10	0.18	2.65		0.95	19	279	0.36	0.28
7219/8-1S	NOR	93007-187	3996	4005	CUT	0.10	0.20	2.95		0.95	21	311	0.33	0.30
7219/8-1S	NOR	93007-188	4005	4014	CUT	0.15	0.29	3.52		1.02	28	345	0.34	0.44
7219/8-1S	NOR	93007-189	4014	4023	CUT	0.24	0.42	3.50		1.18	36	297	0.36	0.66
7219/8-1S	NOR	93007-190	4023	4032	CUT	0.29	0.54	3.91		1.31	41	298	0.35	0.83
7219/8-1S	NOR	93007-191	4032	4041	CUT	0.53	1.03	3.12		1.47	70	212	0.34	1.56
7219/8-1S	NOR	93007-192	4041	4050	CUT	0.39	0.90	2.24		1.47	61	152	0.30	1.29
7219/8-1S	NOR	93007-193	4050	4059	CUT	0.38	0.80	2.27		1.51	53	150	0.32	1.18
7219/8-1S	NOR	93007-194	4059	4068	CUT	0.56	1.01	1.58		1.56	65	101	0.36	1.57
7219/8-1S	NOR	93007-195	4068	4077	CUT	0.15	0.36	2.54		1.41	26	180	0.29	0.51
7219/8-1S	NOR	93007-196	4077	4086	CUT	0.45	0.79	1.97		1.55	51	127	0.36	1.24
7219/8-1S	NOR	93007-197	4086	4095	CUT	0.26	0.40	2.05		1.10	36	186	0.39	0.66
7219/8-1S	NOR	93007-198	4095	4104	CUT	0.41	0.60	1.92		1.20	50	160	0.41	1.01
7219/8-1S	NOR	93007-199	4104	4113	CUT	0.20	0.34	2.65		1.21	28	219	0.37	0.54
7219/8-1S	NOR	93007-200	4113	4122	CUT	0.22	0.35	2.24		1.12	31	200	0.39	0.57
7219/8-1S	NOR	93007-201	4122	4131	CUT	0.38	0.61	3.07		1.14	54	269	0.38	0.99
7219/8-1S	NOR	93007-202	4131	4140	CUT	0.05	0.10	2.17	0.91	11	238	0.33	0.15	
7219/8-1S	NOR	93007-203	4140	4149	CUT	0.18	0.32	2.43	1.07	30	227	0.36	0.50	
7219/8-1S	NOR	93007-204	4149	4158	CUT	0.69	0.99	1.73	2.07	48	84	0.41	1.68	
7219/8-1S	NOR	93007-205	4158	4167	CUT	0.76	0.83	2.02	2.19	38	92	0.48	1.59	
7219/8-1S	NOR	93007-206	4167	4176	CUT	0.75	0.83	2.04	2.13	39	96	0.47	1.58	
7219/8-1S	NOR	93007-207	4176	4185	CUT	0.81	0.88	1.77	3.51	25	50	0.48	1.69	
7219/8-1S	NOR	93007-208	4185	4194	CUT	0.75	0.94	1.71	3.37	28	51	0.44	1.69	
7219/8-1S	NOR	93007-209	4194	4203	CUT	0.88	1.18	2.05	3.37	35	61	0.43	2.06	
7219/8-1S	NOR	93007-210	4203	4212	CUT	0.61	0.84	1.61	2.50	34	64	0.42	1.45	
7219/8-1S	NOR	93007-211	4212	4221	CUT	1.29	1.29	2.04	5.03	26	41	0.50	2.58	

Well	Nation	Sample name	Upper depth	Lower depth	Sample Type	S1 mg/g	S2 mg/g	S3 mg/g	Tmax deg C	TOC % Wt	HI	OI	PI	PP mg/g
7219/8-1S	NOR	93007-212	4221	4230	CUT	1.41	1.47	2.47		5.94	25	42	0.49	2.88
7219/8-1S	NOR	93007-213	4230	4239	CUT	1.61	1.67	2.35		6.96	24	34	0.49	3.28
7219/8-1S	NOR	93007-214	4239	4248	CUT	1.38	1.56	2.08		5.83	27	36	0.47	2.94
7219/8-1S	NOR	93007-215	4248	4257	CUT	1.09	0.83	1.30		4.16	20	31	0.57	1.92
7219/8-1S	NOR	93007-216	4257	4266	CUT	1.00	0.91	1.23		4.43	21	28	0.52	1.91
7219/8-1S	NOR	93007-217	4278	4287	CUT	1.99	1.90	2.43		7.96	24	31	0.51	3.89
7219/8-1S	NOR	93007-218	4287	4296	CUT	2.24	2.13	2.36		8.77	24	27	0.51	4.37
7219/8-1S	NOR	93007-219	4296	4305	CUT	1.96	1.80	2.53		8.24	22	31	0.52	3.76
7219/8-1S	NOR	93007-220	4305	4314	CUT	2.27	1.85	2.18		8.12	23	27	0.55	4.12
7219/8-1S	NOR	93007-221	4314	4323	CUT	1.91	1.62	2.35		7.62	21	31	0.54	3.53
7219/8-1S	NOR	93007-222	4323	4332	CUT	2.16	1.69	1.90		8.01	21	24	0.56	3.85
7219/8-1S	NOR	93007-223	4332	4341	CUT	0.36	0.47	2.66		2.82	17	94	0.43	0.83
7219/8-1S	NOR	93007-224	4341	4350	CUT	0.17	0.17	2.05		1.79	9	115	0.50	0.34
7219/8-1S	NOR	93007-225	4350	4359	CUT	0.17	0.15	2.96		1.27	12	233	0.53	0.32
7219/8-1S	NOR	93007-226	4359	4368	CUT	0.21	0.19	2.32		1.43	13	162	0.53	0.40
7219/8-1S	NOR	93007-227	4368	4377	CUT	0.11	0.11	2.23		1.00	11	223	0.50	0.22
7219/8-1S	NOR	93007-228	4377	4386	CUT	0.16	0.14	1.92		1.25	11	154	0.53	0.30
7219/8-1S	NOR	93007-229	4386	4395	CUT	0.35	0.33	1.67		1.43	23	117	0.51	0.68
7219/8-1S	NOR	93007-230	4395	4404	CUT	0.21	0.10	2.05	400	1.28	8	160	0.68	0.31
7219/8-1S	NOR	93007-231	4404	4413	CUT	0.27	0.19	2.15		1.08	18	199	0.59	0.46
7219/8-1S	NOR	93007-232	4413	4422	CUT	0.26	0.20	2.65		0.94	21	282	0.57	0.46
7219/8-1S	NOR	93007-233	4422	4431	CUT	0.33	0.24	2.60		1.06	23	245	0.58	0.57
7219/8-1S	NOR	93007-234	4431	4440	CUT	0.36	0.24	4.40		0.99	24	444	0.60	0.60
7219/8-1S	NOR	93007-235	4440	4449	CUT	0.50	0.26	2.57		1.17	22	220	0.66	0.76
7219/8-1S	NOR	93007-236	4449	4458	CUT	0.37	0.20	2.55		0.82	24	311	0.65	0.57
7219/8-1S	NOR	93007-237	4451	4460	CUT	0.20	0.08	1.52		0.58	14	262	0.71	0.28
7219/8-1S	NOR	93007-238	4461	4470	CUT	0.52	0.40	2.68		1.04	38	258	0.57	0.92
7219/8-1S	NOR	93007-239	4470	4479	CUT	0.31	0.07	2.46		0.83	8	296	0.82	0.38
7219/8-1S	NOR	93007-240	4479	4488	CUT	0.23	0.09	1.94	412	0.84	11	231	0.72	0.32
7219/8-1S	NOR	93007-241	4488	4497	CUT	0.13	0.13	1.73		0.90	14	192	0.50	0.26
7219/8-1S	NOR	93007-242	4497	4506	CUT	0.34	0.60	1.58		0.74	81	214	0.36	0.94
7219/8-1S	NOR	93007-243	4506	4515	CUT	0.36	0.51	1.20		0.67	76	179	0.41	0.87
7219/8-1S	NOR	93007-244	4515	4524	CUT	0.27	0.23	0.83		0.77	30	108	0.54	0.50

Well	Nation	Sample name	Upper depth	Lower depth	Sample Type	St mg/g	S2 mg/g	S3 mg/g	Tmax deg C	TOC % Wt	HI	OI	PI	PP mg/g
7219/8-1S	NOR	93007-125	3438	3447	CUT	0.74	1.30	2.09	476	1.95	67	107	0.36	2.04
7219/8-1S	NOR	93007-125X	3438	3447	SE CUT	0.05	1.04	1.42	477	2.02	51	70	0.05	1.09
7219/8-1S	NOR	93007-134	3519	3528	CUT	1.38	1.51	0.72	407	2.75	55	26	0.48	2.89
7219/8-1S	NOR	93007-134X	3519	3528	SE CUT	0.16	0.92	0.56	452	2.59	36	22	0.15	1.08
7219/8-1S	NOR	93007-144	3609	3618	CUT	0.61	1.23	1.19	433	2.30	53	52	0.33	1.84
7219/8-1S	NOR	93007-144X	3609	3618	SE CUT	0.09	0.86	1.05	486	2.21	39	48	0.09	0.95
7219/8-1S	NOR	93007-154	3699	3708	CUT	0.86	1.69	1.48	489	3.17	53	47	0.34	2.55
7219/8-1S	NOR	93007-154X	3699	3708	SE CUT	0.09	1.08	1.29	493	3.01	36	43	0.08	1.17
7219/8-1S	NOR	93007-164	3789	3798	CUT	0.46	1.24	2.37	498	2.68	46	88	0.27	1.70
7219/8-1S	NOR	93007-164X	3789	3798	SE CUT	0.07	0.80	1.78	495	2.61	31	68	0.08	0.87
7219/8-1S	NOR	93007-174	3879	3888	CUT	0.12	0.38	2.22	400	1.54	25	144	0.24	0.50
7219/8-1S	NOR	93007-174X	3879	3888	SE CUT	0.04	0.25	1.68	505	1.55	16	108	0.14	0.29
7219/8-1S	NOR	93007-184	3969	3978	CUT	0.17	0.34	3.73	*	1.22	28	306	0.33	0.51
7219/8-1S	NOR	93007-184X	3969	3978	SE CUT	0.06	0.16	2.82	499	1.18	14	239	0.27	0.22
7219/8-1S	NOR	93007-194	4059	4068	CUT	0.56	1.01	1.58	*	1.56	65	101	0.36	1.57
7219/8-1S	NOR	93007-194X	4059	4068	SE CUT	0.17	0.48	1.48	*	1.59	30	93	0.26	0.65
7219/8-1S	NOR	93007-204	4149	4158	CUT	0.69	0.99	1.73	*	2.07	48	84	0.41	1.68
7219/8-1S	NOR	93007-204X	4149	4158	SE CUT	0.14	0.32	1.36	*	2.10	15	65	0.30	0.46
7219/8-1S	NOR	93007-214	4239	4248	CUT	1.38	1.56	2.08	*	5.83	27	36	0.47	2.94
7219/8-1S	NOR	93007-214X	4239	4248	SE CUT	0.19	0.54	1.14	536	5.81	9	20	0.26	0.73
7219/8-1S	NOR	93007-224	4341	4350	CUT	0.17	0.17	2.05		1.79	9	115	0.50	0.34
7219/8-1S	NOR	93007-224X	4341	4350	SE CUT	0.05	0.09	1.53	428	1.88	5	81	0.36	0.14
7219/8-1S	NOR	93007-234	4431	4440	CUT	0.36	0.24	4.40	*	0.99	24	444	0.60	0.60
7219/8-1S	NOR	93007-234X	4431	4440	SE CUT	0.08	0.08	3.41	*	1.01	8	338	0.50	0.16
7219/8-1S	NOR	93007-244	4515	4524	CUT	0.27	0.23	0.83	*	0.77	30	108	0.54	0.50
7219/8-1S	NOR	93007-244X	4515	4524	SE CUT	0.04	0.02	0.76	*	0.72	3	106	0.67	0.06

GENERAL DATA			I MATURITY DATA		KEROGEN COMPOSITION DATA					
SAMPLE DEPTH (Metres)	SAMPLE TYPE	ANALYSED LITHOLOGY	SPORE COLOUR INDEX	VtTR. REFL. R Oil av X	% (Visual, from microscopy)			X (Calculated)		
					INERTINITE	VITRINITE	SAPROPEL	INERT	VIT	ALG SAP
2200	Ctgs	No liths available	7.0		15	80	5			
2295	Ctgs	No liths available	7.0		10	90	Prt			
2400	Ctgs	No liths available	7.5		15	85	Prt			
2500	Ctgs	No liths available	7.0		10	90	Mnr			
2598	Ctgs	No liths available	8.0		Prt	100	Prt			
2700	Ctgs	No liths available	7.0-7.5		10	90	Prt			
2802	Ctgs	No liths available	7.5		5	90	5			
2904	Ctgs	No liths available	7.5		10	90	Mnr			
3000	Ctgs	No liths available	7.5-8.0		10	90	Mnr			
3096	Ctgs	No liths available	7.5		10	85	5			
3201	Ctgs	No liths available	8.0		10	90	Mnr			
3300	Ctgs	No liths available	8.0		10	90	Mnr			
3399	Ctgs	No liths available	8.0-8.5		Mnr	100	Prt			
3447	Ctgs	No liths available	8.5		5	95	Prt			
3501	Ctgs	No liths available	8.5		Mnr	100	Prt			
3550	Ctgs	No liths available	8.0		5	95	Prt			
3600	Ctgs	No liths available	8.0		5	95	Prt			
3651	Ctgs	No liths available	8.0		5	95	Prt			
3699	Ctgs	No liths available	8.5		10	90	Prt			
3750	Ctgs	No liths available	8.5		5	95	Prt			
3798	Ctgs	No liths available	8.5		Mnr	100	Prt			
3851	Ctgs	No liths available	8.5		5	95	Mnr			
3900	Ctgs	No liths available	8.5-9.0		5	95	Mnr			
3948	Ctgs	No liths available	9.0		5	95	Mnr			
3999	Ctgs	No liths available	8.5		5	95	Prt			
4053	Ctgs	No liths available	9.0		5	95	Prt			
4101	Ctgs	No liths available	9.0		*	100	Prt			
4149	Ctgs	No liths available	9.0		5	95	Prt			
4200	Ctgs	No liths available	9.0		5	95	Prt			
4251	Ctgs	No liths available	9.0		5	95	Prt			
4299	Ctgs	No liths available	9.0 ?		5	95	Prt			
4350	Ctgs	No liths available	9.0		10	90	Prt			
4401	Ctgs	No liths available	9.0		Mnr	100	Prt			

MATURITY AND KEROGEN COMPOSITION DATA Table 8

GENERAL DATA			MATURITY DATA		KEROGEN COMPOSITION DATA							
SAMPLE DEPTH (Metres)	SAMPLE TYPE	ANALYSED LITHOLOGY	SPORE COLOUR INDEX	VITR. REFL. Roil av X	% (Visual, from microscopy)			X (Calculated)				
					INERTINITE	VITRINITE	SAPROPEL	INERT	VIT	ALG SAP	WXY SAP	
4449	Ctgs	No liths available	9.0-9.5		5	95	Prt					
4497	Ctgs	No liths available	*		Prt	100	*					
4551	Ctgs	No liths available	9.0		10	90	Prt					
4593	Ctgs	No liths available	9.0-9.5		5	85	10					

MATURITY AND KEROGEN COMPOSITION DATA Table 8

EXTRACTION & LIQUID CHROMATOGRAPHY DATA Table 9

Well	Nation	Sample name	Upper depth	Lower depth	Sample Type	Wt of rock(g)	EOM mg/g	SAT	ARO mg/g	NSO	ASPH mg/g
7219/8-1S	NOR	93007-10	2380	2390	CUT	15.2	1.6	0.1	0.1	0.5	0.9
7219/8-1S	NOR	93007-11	2390	2400	CUT	15.0	1.1	0.2	0.1	0.4	0.5
7219/8-1S	NOR	93007-12	2400	2410	CUT	15.0	1.2	0.1	0.2	0.4	0.5
7219/8-1S	NOR	93007-13	2410	2420	CUT	15.4	1.4	0.2	0.1	0.4	0.7
7219/8-1S	NOR	93007-14	2420	2430	CUT	15.8	1.2	0.2	0.1	0.4	0.5
7219/8-1S	NOR	93007-27	2547	2556	CUT	15.3	1.1	0.1	0.1	0.5	0.3
7219/8-1S	NOR	93007-28	2556	2565	CUT	15.4	2.8	0.0	0.0	0.5	2.2
7219/8-1S	NOR	93007-29	2565	2574	CUT	15.7	1.9	0.1	0.1	0.7	1.0
7219/8-1S	NOR	93007-30	2574	2583	CUT	15.0	1.7	0.1	0.1	0.8	0.7
7219/8-1S	NOR	93007-31	2583	2592	CUT	15.3	2.3	0.1	0.1	0.7	1.5
7219/8-1S	NOR	93007-32	2592	2601	CUT	15.3	1.3	0.2	0.1	0.8	0.2
7219/8-1S	NOR	93007-33	2601	2610	CUT	13.0	2.3	0.2	0.1	0.6	1.4
7219/8-1S	NOR	93007-34	2610	2619	CUT	15.0	2.3	0.1	0.1	0.5	1.5
7219/8-1S	NOR	93007-35	2619	2628	CUT	15.0	2.1	0.1	0.1	0.5	1.5
7219/8-1S	NOR	93007-36	2628	2637	CUT	15.0	1.4	0.1	0.1	0.5	0.6
7219/8-1S	NOR	93007-37	2637	2646	CUT	15.0	2.8	0.1	0.0	0.5	2.2
7219/8-1S	NOR	93007-38	2646	2655	CUT	15.0	2.2	0.1	0.1	0.6	1.5
7219/8-1S	NOR	93007-39	2655	2664	CUT	15.0	2.1	0.1	0.1	0.6	1.4