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Memorandum Number: SL/94/645

Title:

GEOCHEMICAL INTERPRETATION OF WELL 34/7-23S & 34/7-23A

Prepared For:

SAGA PETROLEUM a.s.
KJ0RBOVEIEN 16
POSTBOKS 490
1301 SANDVIKA
NORWAY

Author's signature ......M. Wadsworth......... Date 2/12/94
Mr M C Wadsworth

General Manager .... Date 2/12/94
Mr J McEwan

SUMMARY & INTRODUCTION

Client name	**Saga Petroleum a.s.**
Well names	**34/7-23S & 34/7-23A**
Location	Norwegian North Sea
Dates of receipt	21/2/94 5/4/94 11/4/94 5/5/94 11/7/94
Dates of analysis	5/5/94 - 21/10/94
Sample types	Cuttings & Core chips
SL job no	94014
Client ref nos	X-EUG-94011901/NM/JRS

Petroleum geochemical evaluations have been carried out on behalf of Saga Petroleum a.s. of the interval, 380 to 3374m in the 34/7-23S well and the interval, 3199 to 3291m in the 34/7-23A sidetrack well. The objectives of the geochemical analytical program were to establish the thermal maturity of the well section, evaluate the hydrocarbon source potential of the stratigraphic units, also to identify and characterise any migrant hydrocarbons and correlate these to the likely source rock. A detailed analytical program (Table 1) and a lithostratigraphic breakdown (Table 2) follows this summary. For extensive explanation of methodologies used please refer to the experimental procedures section of this report, page 27.

Well name	Nation	Sample Name		Upper Depth	Lower Depth	Sample Type	C1-C5 + HEADSPACE GAS	C1-C5 + OCCLUDED GAS	LITHOLOGY	PICK	TOC & ROCK EVAL	EXTRACTION	IATROSCAN FRACTIONATION	MPLC	SATS & AROM GC	SATS & AROM GCMS	S & A CARBON ISOTOPES
34/7-23S	NOR	94014-	1	380.00	400.00	CUT	X	X	X								
34/7-23S	NOR	94014-	2	540.00	560.00	CUT	X	X	X								
34/7-23S	NOR	94014-	3	700.00	720.00	CUT	X	X	X								
34/7-23S	NOR	94014-	4	860.00	880.00	CUT	X	X	X								
34/7-23S	NOR	94014-	5	1020.00	1040.00	CUT	X	X	X								
34/7-23S	NOR	94014-	6	1180.00	1200.00	CUT	X	X	X								
34/7-23S	NOR	94014-	7	1340.00	1360.00	CUT	X	X	X								
34/7-23S	NOR	94014-	8	1480.00	1500.00	CUT	X	X	X								
34/7-23S	NOR	94014-	9	1640.00	1660.00	CUT	X	X	X								
34/7-23S	NOR	94014-	10	1800.00	1820.00	CUT	X	X	X								
34/7-23S	NOR	94014-	11	1980.00	2000.00	CUT	X	X	X								
34/7-23S	NOR	94014-	12	2020.00	2040.00	CUT	X	X	X								
34/7-23S	NOR	94014-	13	2060.00	2080.00	CUT	X	X	X								
34/7-23S	NOR	94014-	14	2100.00	2120.00	CUT	X	X	X								
34/7-23S	NOR	94014-	15	2140.00	2160.00	CUT	X	X	X								
34/7-23S	NOR	94014-	16	2180.00	2200.00	CUT	X	X	X								
34/7-23S	NOR	94014-	17	2220.00	2240.00	CUT	X	X	X								
34/7-23S	NOR	94014-	18	2260.00	2280.00	CUT	X	X	X								
34/7-23S	NOR	94014-	19	2300.00	2320.00	CUT	X	X	X								
34/7-23S	NOR	94014-	20	2340.00	2350.00	CUT	X	X	X								
34/7-23S	NOR	94014-	21	2370.00	2380.00	CUT	X	X	X								
34/7-23S	NOR	94014-	22	2400.00	2410.00	CUT	X	X	X								
34/7-23S	NOR	94014-	23	2430.00	2440.00	CUT	X	X	X								
34/7-23S	NOR	94014-	24	2460.00	2470.00	CUT	X	X	X								
34/7-23S	NOR	94014-	25	2490.00	2500.00	CUT	X	X	X								
34/7-23S	NOR	94014-	26	2520.00	2530.00	CUT	X	X	X								
34/7-23S	NOR	94014-	27	2550.00	2560.00	CUT	X	X	X								
34/7-23S	NOR	94014-	28	2580.00	2590.00	CUT	X	X	X								
34/7-23S	NOR	94014-	29	2600.00	2610.00	CUT	X	X	X								
34/7-23S	NOR	94014-	30	2620.00	2630.00	CUT	X	X	X								
34/7-23S	NOR	94014-	31	2640.00	2650.00	CUT	X	X	X								
34/7-23S	NOR	94014-	32	2660.00	2670.00	CUT	X	X	X								
34/7-23S	NOR	94014-	33	2680.00	2690.00	CUT	X	X	X								
34/7-23S	NOR	94014-	34	2700.00	2710.00	CUT	X	X	X								
34/7-23S	NOR	94014-	35	2720.00	2730.00	CUT	X	X	X								
34/7-23S	NOR	94014-	36	2740.00	2750.00	CUT	X	X	X			X	X	X	X	X	X
34/7-23S	NOR	94014-	37	2760.00	2770.00	CUT	X	X	X								
34/7-23S	NOR	94014-	38	2780.00	2790.00	CUT	X	X	X								
34/7-23S	NOR	94014-	39	2800.00	2810.00	CUT	X	X	X								
34/7-23S	NOR	94014-	40	2820.00	2830.00	CUT	X	X	X								
34/7-23S	NOR	94014-	41	2840.00	2850.00	CUT	X	X	X								
34/7-23S	NOR	94014-	42	2860.00	2870.00	CUT	X	X	X								
34/7-23S	NOR	94014-	43	2880.00	2890.00	CUT	X	X	X								
34/7-23S	NOR	94014-	44	2900.00	2910.00	CUT	X	X	X								
34/7-23S	NOR	94014-	45	2920.00	2930.00	CUT	X	X	X								
34/7-23S	NOR	94014-	46	2940.00	2950.00	CUT	X	X	X								

Well name	Nation	Sample Name		Upper Depth	Lower Depth	Sample Type	C1-C5+ HEADSPACE GAS	C1-C5+ OCCLUDED GAS	LITHOLOGY	RCK	TOC & ROCK EVAL	EXTRACTION	IATROSCAN FRACTIONATION	MPLC	SATS & AROM GC	SATS & AROM GCMS	S & A CARBON ISOTOPES
34/7-23S	NOR	94014-	47	2960.00	2970.00	CUT	X	X	X								
34/7-23S	NOR	94014-	48	2980.00	2990.00	CUT	X	X	X								
34/7-23S	NOR	94014-	49	3000.00	3010.00	CUT	X	X	X								
34/7-23S	NOR	94014-	50	3020.00	3030.00	CUT	X	X	X								
34/7-23S	NOR	94014-	51	3040.00	3050.00	CUT	X	X	X								
34/7-23S	NOR	94014-	52	3060.00	3070.00	CUT	X	X	X								
34/7-23S	NOR	94014-	70	3079.00	3079.00	CCP						X	X				
34/7-23S	NOR	94014-	71	3080.00	3080.00	CCP						X	X	X	X	X	X
34/7-23S	NOR	94014-	72	3081.00	3081.00	CCP						X	X				
34/7-23S	NOR	94014-	73	3082.00	3082.00	CCP						X	X				
34/7-23S	NOR	94014-	74	3083.00	3083.00	CCP						X	X				
34/7-23S	NOR	94014-	75	3084.00	3084.00	CCP						X	X				
34/7-23S	NOR	94014-	76	3085.00	3085.00	CCP						X	X	X	X	X	X
34/7-23S	NOR	94014-	77	3086.00	3086.00	CCP						X	X				
34/7-23S	NOR	94014-	78	3087.00	3087.00	CCP						X	X				
34/7-23S	NOR	94014-	79	3088.00	3088.00	CCP						X	X				
34/7-23S	NOR	94014-	80	3089.00	3089.00	CCP						X	X				
34/7-23S	NOR	94014-	81	3090.00	3090.00	CCP						X	X	X	X	X	X
34/7-23S	NOR	94014-	82	3091.00	3091.00	CCP						X	X				
34/7-23S	NOR	94014-	83	3092.00	3092.00	CCP						X	X				
34/7-23S	NOR	94014-	84	3093.00	3093.00	CCP						X	X				
34/7-23S	NOR	94014-	85	3094.00	3094.00	CCP						X	X				
34/7-23S	NOR	94014-	86	3095.00	3095.00	CCP						X	X	X	X	X	X
34/7-23S	NOR	94014-	87	3095.80	3095.80	CCP						X	X				
34/7-23S	NOR	94014-	53A	3075.00	3098.00	CUT				X	X						
34/7-23S	NOR	94014-	53	3075.00	3098.00	CUT	X	X	X								
34/7-23S	NOR	94014-	88	3106.00	3106.00	CCP					X						
34/7-23S	NOR	94014-	89	3107.00	3107.00	CCP					X						
34/7-23S	NOR	94014-	90	3107.70	3107.70	CCP					X						
34/7-23S	NOR	94014-	91	3108.00	3108.00	CCP					X	X		X	X	X	X
34/7-23S	NOR	94014-	92	3109.00	3109.00	CCP					X						
34/7-23S	NOR	94014-	93	3109.70	3109.70	CCP					X						
34/7-23S	NOR	94014-	94	3110.80	3110.80	CCP					X	X		X	X	X	X
34/7-23S	NOR	94014-	95	3112.00	3112.00	CCP					X						
34/7-23S	NOR	94014-	96	3113.00	3113.00	CCP					X	X		X	X	X	X
34/7-23S	NOR	94014-	97	3114.00	3114.00	CCP					X						
34/7-23S	NOR	94014-	98	3115.00	3115.00	CCP					X						
34/7-23S	NOR	94014-	99	3116.00	3116.00	CCP					X						
34/7-23S	NOR	94014-	100	3117.00	3117.00	CCP					X						
34/7-23S	NOR	94014-	101	3118.00	3118.00	CCP					X						
34/7-23S	NOR	94014-	102	3119.00	3119.00	CCP					X						
34/7-23S	NOR	94014-	103	3120.00	3120.00	CCP					X						
34/7-23S	NOR	94014-	104	3121.00	3121.00	CCP					X						
34/7-23S	NOR	94014-	105	3122.00	3122.00	CCP					X	X		X	X	X	X

Well name	Nation	Sample Name		Upper Depth	Lower Depth	Sample Type	C1-C5 + HEADSPACE GAS	C1-C5 + OCCLUDED GAS	LITHOLOGY	PICK	TOC & ROCK EVAL	EXTRACTION	IATROSCAN FRACTIONATION	MPLC	SATS & AROM GC	SATS & AROM GCMS	S & A CARBON ISOTOPES
34/7-23S	NOR	94014-	106	3123.00	3123.00	CCP					X						
34/7-23S	NOR	94014-	107	3124.00	3124.00	CCP					X						
34/7-23S	NOR	94014-	108	3125.00	3125.00	CCP					X	X		X	X	X	X
34/7-23S	NOR	94014-	109	3126.00	3126.00	CCP					X						
34/7-23S	NOR	94014-	54A	3098.00	3127.00	CUT				X	X						
34/7-23S	NOR	94014-	54	3098.00	3127.00	CUT	X	X	X								
34/7-23S	NOR	94014-	110	3127.11	3127.11	CCP					X						
34/7-23S	NOR	94014-	111	3128.00	3128.00	CCP					X	X		X	X	X	X
34/7-23S	NOR	94014-	112	3129.00	3129.00	CCP					X						
34/7-23S	NOR	94014-	113	3130.00	3130.00	CCP					X						
34/7-23S	NOR	94014-	114	3131.00	3131.00	CCP					X						
34/7-23S	NOR	94014-	115	3132.00	3132.00	CCP					X	X		X	X	X	X
34/7-23S	NOR	94014-	116	3133.00	3133.00	CCP					X						
34/7-23S	NOR	94014-	117	3133.30	3133.30	CCP						X	X				
34/7-23S	NOR	94014-	118	3133.70	3133.70	CCP						X	X				
34/7-23S	NOR	94014-	119	3133.75	3133.75	CCP						X	X				
34/7-23S	NOR	94014-	120	3134.00	3134.00	CCP					X						
34/7-23S	NOR	94014-	121	3135.00	3135.00	CCP					X						
34/7-23S	NOR	94014-	122	3136.00	3136.00	CCP					X	X		X	X	X	X
34/7-23S	NOR	94014-	55A	3133.00	3140.00	CUT				X	X						
34/7-23S	NOR	94014-	55	3133.00	3140.00	CUT	X	X	X								
34/7-23S	NOR	94014-	56A	3149.00	3158.00	CUT				X	X						
34/7-23S	NOR	94014-	56	3149.00	3158.00	CUT	X	X	X								
34/7-23S	NOR	94014-	57A	3167.00	3176.00	CUT				X	X						
34/7-23S	NOR	94014-	57	3167.00	3176.00	CUT	X	X	X								
34/7-23S	NOR	94014-	58A	3185.00	3194.00	CUT				X	X						
34/7-23S	NOR	94014-	58	3185.00	3194.00	CUT	X	X	X								
34/7-23S	NOR	94014-	59A	3203.00	3212.00	CUT				X	X						
34/7-23S	NOR	94014-	59	3203.00	3212.00	CUT	X	X	X								
34/7-23S	NOR	94014-	60A	3221.00	3230.00	CUT				X	X						
34/7-23S	NOR	94014-	60	3221.00	3230.00	CUT	X	X	X								
34/7-23S	NOR	94014-	61A	3239.00	3248.00	CUT				X	X						
34/7-23S	NOR	94014-	61	3239.00	3248.00	CUT	X	X	X								
34/7-23S	NOR	94014-	62A	3257.00	3266.00	CUT				X	X						
34/7-23S	NOR	94014-	62	3257.00	3266.00	CUT	X	X	X								
34/7-23S	NOR	94014-	63A	3275.00	3284.00	CUT				X	X						
34/7-23S	NOR	94014-	63	3275.00	3284.00	CUT	X	X	X								
34/7-23S	NOR	94014-	64A	3293.00	3302.00	CUT				X	X						
34/7-23S	NOR	94014-	64	3293.00	3302.00	CUT	X	X	X								
34/7-23S	NOR	94014-	65A	3311.00	3320.00	CUT				X	X						
34/7-23S	NOR	94014-	65	3311.00	3320.00	CUT	X	X	X								
34/7-23S	NOR	94014-	66	3329.00	3338.00	CUT	X	X	X								
34/7-23S	NOR	94014-	67	3347.00	3356.00	CUT	X	X	X								
34/7-23S	NOR	94014-	68	3365.00	3374.00	CUT	X	X	X								

Well name	Nation	Sample Name	Upper Depth	Lower Depth	Sample Type	C1-C5+ HEADSPACE GAS	C1-C5+ OCCLUDED GAS	LITHOLOGY	HCK	TOC & ROCK EVAL	EXTRACTION	IATROSCAN FRACTIONATION	MPLC	SATS & AROM GC	SATS & AROM GCMS	S & A CARBON ISOTOPES
34/7-23A	NOR	94014- 123	3199.00	3199.00	CCP						X	X				
34/7-23A	NOR	94014- 124	3200.00	3200.00	CCP						X	X				
34/7-23A	NOR	94014- 125	3201.00	3201.00	CCP						X	X				
34/7-23A	NOR	94014- 126	3202.00	3202.00	CCP						X	X				
34/7-23A	NOR	94014- 127	3203.00	3203.00	CCP						X	X				
34/7-23A	NOR	94014- 128	3203.50	3203.50	CCP						X	X				
34/7-23A	NOR	94014- 129	3204.00	3204.00	CCP						X	X				
34/7-23A	NOR	94014- 130	3205.00	3205.00	CCP						X	X	X	X	X	X
34/7-23A	NOR	94014- 131	3206.00	3206.00	CCP						X	X				
34/7-23A	NOR	94014- 132	3207.00	3207.00	CCP						X	X				
34/7-23A	NOR	94014- 133	3208.00	3208.00	CCP						X	X				
34/7-23A	NOR	94014- 134	3209.00	3209.00	CCP						X	X				
34/7-23A	NOR	94014- 135	3210.00	3210.00	CCP						X	X				
34/7-23A	NOR	94014- 136	3211.00	3211.00	CCP						X	X				
34/7-23A	NOR	94014- 137	3212.00	3212.00	CCP						X	X				
34/7-23A	NOR	94014- 138	3213.00	3213.00	CCP						X	X				
34/7-23A	NOR	94014- 139	3214.00	3214.00	CCP						X	X				
34/7-23A	NOR	94014- 140	3215.00	3215.00	CCP						X	X	X	X	X	X
34/7-23A	NOR	94014- 141	3216.00	3216.00	CCP						X	X				
34/7-23A	NOR	94014- 142	3217.00	3217.00	CCP						X	X				
34/7-23A	NOR	94014- 143	3218.00	3218.00	CCP						X	X				
34/7-23A	NOR	94014- 144	3219.00	3219.00	CCP						X	X				
34/7-23A	NOR	94014- 145	3220.00	3220.00	CCP						X	X				
34/7-23A	NOR	94014- 146	3221.00	3221.00	CCP						X	X				
34/7-23A	NOR	94014- 147	3222.00	3222.00	CCP						X	X				
34/7-23A	NOR	94014- 148	3223.00	3223.00	CCP						X	X				
34/7-23A	NOR	94014- 149	3224.00	3224.00	CCP						X	X				
34/7-23A	NOR	94014- 150	3225.00	3225.00	CCP						X	X	X	X	X	X
34/7-23A	NOR	94014- 151	3226.00	3226.00	CCP						X	X				
34/7-23A	NOR	94014- 152	3227.00	3227.00	CCP						X	X				
34/7-23A	NOR	94014- 153	3228.00	3228.00	CCP						X	X				
34/7-23A	NOR	94014- 154	3229.00	3229.00	CCP						X	X				
34/7-23A	NOR	94014- 155	3230.00	3230.00	CCP						X	X				
34/7-23A	NOR	94014- 156	3231.00	3231.00	CCP						X	X				
34/7-23A	NOR	94014- 157	3232.00	3232.00	CCP						X	X				
34/7-23A	NOR	94014- 158	3233.00	3233.00	CCP						X	X				
34/7-23A	NOR	94014- 159	3234.00	3234.00	CCP						X	X				
34/7-23A	NOR	94014- 160	3235.00	3235.00	CCP						X	X	X	X	X	X
34/7-23A	NOR	94014- 161	3236.00	3236.00	CCP						X	X				
34/7-23A	NOR	94014- 162	3237.00	3237.00	CCP						X	X				
34/7-23A	NOR	94014- 163	3238.00	3238.00	CCP						X	X				
34/7-23A	NOR	94014- 164	3239.00	3239.00	CCP						X	X				
34/7-23A	NOR	94014- 165	3240.00	3240.00	CCP						X	X				
34/7-23A	NOR	94014- 166	3241.00	3241.00	CCP						X	X				
34/7-23A	NOR	94014- 167	3242.00	3242.00	CCP						X	X				
34/7-23A	NOR	94014- 168	3243.00	3243.00	CCP						X	X				
34/7-23A	NOR	94014- 169	3244.00	3244.00	CCP						X	X				

Well name	Nation	Sample Name	Upper Depth	Lower Depth	Sample Type	C1-C5 + HEADSPACE GAS	C1-C5+ OCCLUDED GAS	LITHOLOGY	PICK	TOC & ROCK EVAL	EXTRACTION	IATROSCAN FRACTIONATION	MPLC	SATS & AROM GC	SATS & AROM GCMS	S & A CARBON ISOTOPES
34/7-23A	NOR	94014- 170	3245.00	3245.00	CCP						X	X	X	X	X	X
34/7-23A	NOR	94014- 171	3246.00	3246.00	CCP						X	X				
34/7-23A	NOR	94014- 171	3246.00	3246.00	CCP					X	X	X				
34/7-23A	NOR	94014- 172	3247.00	3247.00	CCP					X						
34/7-23A	NOR	94014- 173	3248.00	3248.00	CCP					X	X	X	X	X	X	X
34/7-23A	NOR	94014- 174	3249.00	3249.00	CCP					X	X	X				
34/7-23A	NOR	94014- 175	3250.00	3250.00	CCP					X	X	X				
34/7-23A	NOR	94014- 176	3251.00	3251.00	CCP					X						
34/7-23A	NOR	94014- 177	3252.00	3252.00	CCP					X						
34/7-23A	NOR	94014- 178	3253.00	3253.00	CCP					X						
34/7-23A	NOR	94014- 179	3254.00	3254.00	CCP					X						
34/7-23A	NOR	94014- 180	3255.00	3255.00	CCP					X						
34/7-23A	NOR	94014- 181	3256.00	3256.00	CCP					X						
34/7-23A	NOR	94014- 182	3257.00	3257.00	CCP					X						
34/7-23A	NOR	94014- 183	3258.00	3258.00	CCP					X	X		X	X	X	X
34/7-23A	NOR	94014- 184	3259.00	3259.00	CCP					X						
34/7-23A	NOR	94014- 185	3260.00	3260.00	CCP					X						
34/7-23A	NOR	94014- 186	3261.00	3261.00	CCP					X						
34/7-23A	NOR	94014- 187	3262.00	3262.00	CCP					X						
34/7-23A	NOR	94014- 188	3263.00	3263.00	CCP					X						
34/7-23A	NOR	94014- 189	3264.00	3264.00	CCP					X						
34/7-23A	NOR	94014- 190	3265.00	3265.00	CCP					X	X		X	X	X	X
34/7-23A	NOR	94014- 191	3266.00	3266.00	CCP					X						
34/7-23A	NOR	94014- 192	3267.00	3267.00	CCP					X						
34/7-23A	NOR	94014- 193	3268.00	3268.00	CCP					X						
34/7-23A	NOR	94014- 194	3269.00	3269.00	CCP					X						
34/7-23A	NOR	94014- 195	3270.00	3270.00	CCP					X						
34/7-23A	NOR	94014- 196	3271.00	3271.00	CCP					X						
34/7-23A	NOR	94014- 197	3272.00	3272.00	CCP					X						
34/7-23A	NOR	94014- 198	3273.00	3273.00	CCP					X						
34/7-23A	NOR	94014- 199	3274.00	3274.00	CCP					X						
34/7-23A	NOR	94014- 200	3275.00	3275.00	CCP					X						
34/7-23A	NOR	94014- 201	3276.00	3276.00	CCP					X	X		X	X	X	X
34/7-23A	NOR	94014- 202	3277.00	3277.00	CCP					X	X		X	X	X	X
34/7-23A	NOR	94014- 203	3278.00	3278.00	CCP					X						
34/7-23A	NOR	94014- 204	3279.00	3279.00	CCP					X						
34/7-23A	NOR	94014- 205	3280.00	3280.00	CCP					X						
34/7-23A	NOR	94014- 206	3281.00	3281.00	CCP					X						
34/7-23A	NOR	94014- 207	3282.00	3282.00	CCP					X						
34/7-23A	NOR	94014- 208	3283.00	3283.00	CCP					X						
34/7-23A	NOR	94014- 209	3284.00	3284.00	CCP					X	X		X	X	X	X
34/7-23A	NOR	94014- 210	3285.00	3285.00	CCP					X						
34/7-23A	NOR	94014- 211	3286.00	3286.00	CCP					X						
34/7-23A	NOR	94014- 212	3287.00	3287.00	CCP					X						
34/7-23A	NOR	94014- 213	3288.00	3288.00	CCP					X						
34/7-23A	NOR	94014- 214	3289.00	3289.00	CCP					X	X		X	X	X	X
34/7-23A	NOR	94014- 215	3290.00	3290.00	CCP					X						
34/7-23A	NOR	94014- 216	3291.00	3291.00	CCP					X						

Migrant Hydrocarbons and Oil Stains

Draupne Formation

Extraction, Fractionation and Gas Chromatography

Nine sandstone core samples were submitted for quantitative solvent extraction and extract fractionation, four samples from the 34/7-23S well section and five samples from the 34/7-23A well section.

Well	Depth (m)	Alkane (%)	Aromatic (%)	Polar (%)
34/7-23S	3080.0	57.9	26.2	15.9
34/7-23S	3085.0	57.4	25.7	16.9
34/7-23S	3090.0	52.4	25.1	22.4
34/7-23S	3095.0	55.9	26.3	17.8
34.7-23A	3205.0	60.4	27.1	12.5
34.7-23A	3215.0	60.8	27.9	11.3
34.7-23A	3225.0	53.0	25.9	21.0
34.7-23A	3235.0	54.6	25.0	20.4
34.7-23A	3245.0	56.0	26.0	17.8

EXPERIMENTAL PROCEDURES

Table 3

ANALYSIS	INSTRUMENT	METHOD	TEMPERATURE PROGRAM	COLUMNS
Headspace gas	Perkin Elmer Sigma 3	NPD method	isothermal 110C	1/8" SS, packed
Occluded gas	Perkin Elmer Sigma 3	NPD method		1/8" SS, packed
TOC	Leco CS 125	OLS 1 *		
Rock Eval Pyrolysis	Rock Eval II	OLS 5 *	Cycle 1	
Iatroscan fractionation	Iatroscan MKIII	NPD method		
Quantatitative Extraction	Soxhtec Tecator 1043	NPD method	Boil 1 hr, rinse 2hrs (DCM:MeOH, 7:1)	
Asphaltene precipitation		NPD method		
Hydrocarbon separation	Kontron HPLC	NPD method		Lobar Lichroprep Si60
Alkane GC	HP5890a (on column)	NPD method	80C 1min, 5C/min to 300C, 300C 20 min.	CP SIL-5 (30m)
Aromatic GC FID	AMS 92	NPD method	80C 1min, 4C/min to 300C, 300C 20 min.	DB-5 (30m)
Alkane GC/MS	HP MSD	Saga method	180C 1min, 1.7C/min to 300C, 300C 10 min.	DB-5MS (50m)
Aromatic GC/MS	HP MSD	Saga method	180C 1min, 1.7C/min to 300C, 300C 10 min.	DB-5MS (50m)
Isotope analysis	sub contracted and run at Saga's request by IFE			

* – 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 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.

What's so special about a NAMAS report or certificate?

- It's your assurance that the work has been carried out to the highest standard.
- The laboratory issuing the certificate has been stringently assessed by independent experts.
- You are assured that the agreed or specific methods and procedures have been followed.
- Measurements are traceable to national and international standards. NAMAS (which stands for the National and Measurement Accreditation Service) is a service of the National Physical Laboratory. NPL hold many of the UK's primary standards.

What does NAMAS assess?

All technical aspects of the laboratory's practice. NAMAS specifies criteria that laboratories must meet. These criteria deal with more than just the quality system and cover:

- Organisation
- Equipment
- Handling of samples
- Quality system
- Measurement traceablity
- Records
- Quality audits and reviews
- Methods and procedures
- Complaints
- Staff
- Environment
- Subcontracting and purchasing

NAMAS is part of the International Laboratory Accreditation Conference. Much of their accreditation criteria have been included in the European EN 4500 Series standards.

NAMAS is recognised and have mutual accreditation agreements with the following national bodies.

Australia (NATA)
Hong Kong (KOKLAS)
New Zealand (TELARC)
Switzerland (SMO)
Germany (DKD)
Italy (SIT)
Norway (DNVQA)
France (BNM, RNE)
Netherlands (NKO)
Sweden (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 Iatroscan
OLS/026	Topping of oils
OLS/027	Gas chromatography – Mass spectrometry of organic biomarkers
OLS/028	2D Ultra Violet fluorescence spectrometry
OLS/029	3D Ultra Violet fluorescence spectrometry
OLS/030	Determination of asphaltene content by precipitation
WC/002	Determination of water in lubricating oil
WC/003	Determination of fuel in lubricating oil
WC/004	Determination of the dielectric of lubricating oil
WC/005	Determination of viscosity of lubricating oil
WC/007	Determination of API gravity
WC/008	Total base number
WC/009	Cold filter plugging point
WC/010	Wear metals in lubricants by ICP
WC/011	Determination of API gravity of small samples by Archimedes Bridges

HEADSPACE GAS DATA

Table 4

Well name	Nation	Sample Name	Upper Depth	Lower Depth	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
34/7–23S	NOR	94014– 1	380	400	7754	6	1	1	2	18	7764	9	0.12	0.33
34/7–23S	NOR	94014– 2	540	560	15893	20	2	0	0	8	15916	23	0.14	
34/7–23S	NOR	94014– 3	700	720	9199	14	2	1	1	7	9216	17	0.18	0.52
34/7–23S	NOR	94014– 4	860	880	5466	6	1	1	0	10	5475	9	0.16	2.70
34/7–23S	NOR	94014– 5	1020	1040	4268	5	0	0	0	3	4275	7	0.15	0.92
34/7–23S	NOR	94014– 6	1180	1200	20515	58	9	1	1	20	20583	68	0.33	0.67
34/7–23S	NOR	94014– 7	1340	1360	10265	29	16	0	0	2	10310	45	0.44	
34/7–23S	NOR	94014– 8	1480	1500	7040	15	12	0	2	12	7069	30	0.42	0.14
34/7–23S	NOR	94014– 9	1640	1660	9612	94	10	10	4	15	9730	118	1.21	2.59
34/7–23S	NOR	94014– 10	1800	1820	4837	135	15	41	12	36	5040	203	4.03	3.44
34/7–23S	NOR	94014– 11	1980	2000	8205	310	20	73	13	124	8621	416	4.83	5.40
34/7–23S	NOR	94014– 12	2020	2040	5271	252	19	78	13	140	5632	361	6.41	6.23
34/7–23S	NOR	94014– 13	2060	2080	5696	206	12	26	5	46	5946	249	4.19	4.85
34/7–23S	NOR	94014– 14	2100	2120	4404	121	9	24	6	54	4564	160	3.51	4.32
34/7–23S	NOR	94014– 15	2140	2160	6137	217	13	57	7	103	6431	294	4.57	7.67
34/7–23S	NOR	94014– 16	2180	2200	285	11	1	3	0	56	300	15	4.97	14.40
34/7–23S	NOR	94014– 17	2220	2240	4791	226	14	16	3	32	5049	258	5.12	5.02
34/7–23S	NOR	94014– 18	2260	2280	8728	372	42	30	9	47	9182	454	4.94	3.38
34/7–23S	NOR	94014– 19	2300	2320	2745	104	21	14	6	25	2891	145	5.02	2.41
34/7–23S	NOR	94014– 20	2340	2350	2726	104	24	10	5	15	2869	143	4.98	1.85
34/7–23S	NOR	94014– 21	2370	2380	3781	201	60	18	12	27	4072	291	7.15	1.58
34/7–23S	NOR	94014– 22	2400	2410	4099	240	91	22	19	39	4470	371	8.30	1.16
34/7–23S	NOR	94014– 23	2430	2440	2581	180	78	18	16	27	2873	292	10.17	1.11
34/7–23S	NOR	94014– 24	2460	2470	3636	251	159	34	40	43	4121	484	11.76	0.87
34/7–23S	NOR	94014– 25	2490	2500	6016	624	425	76	102	82	7243	1227	16.94	0.75
34/7–23S	NOR	94014– 26	2520	2530	3181	423	353	65	99	66	4121	940	22.80	0.65
34/7–23S	NOR	94014– 27	2550	2560	4227	494	363	57	99	55	5240	1013	19.33	0.57
34/7–23S	NOR	94014– 28	2580	2590	3208	415	310	50	94	44	4077	868	21.30	0.53
34/7–23S	NOR	94014– 29	2600	2610	4589	416	262	39	86	44	5392	803	14.90	0.45
34/7–23S	NOR	94014– 30	2620	2630	4682	594	526	88	222	158	6112	1430	23.40	0.40
34/7–23S	NOR	94014– 31	2640	2650	1881	273	260	40	114	99	2568	687	26.74	0.36
34/7–23S	NOR	94014– 32	2660	2670	3685	509	457	76	201	177	4928	1243	25.22	0.38
34/7–23S	NOR	94014– 33	2680	2690	2450	295	309	59	172	228	3285	835	25.41	0.34

HEADSPACE GAS DATA

Table 4

Well name	Nation	Sample Name	Upper Depth	Lower Depth	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
34/7-23S	NOR	94014- 34	2700	2710	1738	160	155	24	74	132	2150	412	19.16	0.32
34/7-23S	NOR	94014- 35	2720	2730	2864	352	440	122	277	569	4054	1191	29.37	0.44
34/7-23S	NOR	94014- 36	2740	2750	3294	678	1018	288	614	1066	5892	2599	44.10	0.47
34/7-23S	NOR	94014- 37	2760	2770	3213	414	477	102	244	518	4449	1236	27.79	0.42
34/7-23S	NOR	94014- 38	2780	2790	2437	460	594	121	287	548	3899	1462	37.50	0.42
34/7-23S	NOR	94014- 39	2800	2810	3201	766	780	142	332	530	5222	2021	38.71	0.43
34/7-23S	NOR	94014- 40	2820	2830	2428	776	891	173	379	544	4646	2218	47.75	0.46
34/7-23S	NOR	94014- 41	2840	2850	1386	283	281	40	94	146	2085	699	33.52	0.43
34/7-23S	NOR	94014- 42	2860	2870	1302	402	397	58	115	141	2273	971	42.71	0.50
34/7-23S	NOR	94014- 43	2880	2890	1691	527	476	66	120	155	2881	1189	41.29	0.55
34/7-23S	NOR	94014- 44	2900	2910	1405	451	423	54	89	119	2422	1017	41.99	0.61
34/7-23S	NOR	94014- 45	2920	2930	1302	607	569	70	106	154	2654	1352	50.94	0.65
34/7-23S	NOR	94014- 46	2940	2950	1412	530	504	60	98	158	2604	1192	45.77	0.61
34/7-23S	NOR	94014- 47	2960	2970	1041	578	599	78	128	165	2425	1384	57.07	0.61
34/7-23S	NOR	94014- 48	2980	2990	289	167	327	61	133	193	977	688	70.40	0.46
34/7-23S	NOR	94014- 49	3000	3010	269	98	137	24	52	49	580	312	53.68	0.47
34/7-23S	NOR	94014- 50	3020	3030	410	108	159	27	71	82	775	365	47.11	0.37
34/7-23S	NOR	94014- 51	3040	3050	398	230	455	88	227	283	1397	1000	71.53	0.39
34/7-23S	NOR	94014- 52	3060	3070	413	290	625	111	331	636	1771	1358	76.68	0.34
34/7-23S	NOR	94014- 53	3075	3098	13846	9919	13282	3309	6591	8254	46947	33100	70.51	0.50
34/7-23S	NOR	94014- 54	3098	3127	2118	1057	1851	320	902	1071	6249	4131	66.10	0.35
34/7-23S	NOR	94014- 55	3133	3140	2010	1065	989	161	360	520	4585	2575	56.17	0.45
34/7-23S	NOR	94014- 56	3149	3158	32151	11738	5123	910	1013	1074	50935	18784	36.88	0.90
34/7-23S	NOR	94014- 57	3167	3176	33159	10134	3874	720	785	913	48672	15513	31.87	0.92
34/7-23S	NOR	94014- 58	3185	3194	5779	1544	548	117	109	268	8097	2318	28.63	1.08
34/7-23S	NOR	94014- 59	3203	3212	5207	2085	948	153	241	348	8634	3427	39.69	0.63
34/7-23S	NOR	94014- 60	3221	3230	12169	5256	2382	370	553	600	20730	8561	41.30	0.67
34/7-23S	NOR	94014- 61	3239	3248	347	121	58	8	13	82	548	201	36.65	0.60
34/7-23S	NOR	94014- 62	3257	3266	4689	1299	554	74	114	196	6729	2040	30.32	0.65
34/7-23S	NOR	94014- 63	3275	3284	2441	987	604	85	146	242	4264	1823	42.75	0.58
34/7-23S	NOR	94014- 64	3293	3302	9856	3973	2629	473	725	779	17656	7801	44.18	0.65
34/7-23S	NOR	94014- 65	3311	3320	10414	4656	2964	587	776	641	19397	8983	46.31	0.76
34/7-23S	NOR	94014- 66	3329	3338	10035	3942	2397	420	614	629	17408	7373	42.35	0.68
34/7-23S	NOR	94014- 67	3347	3356	1313	337	179	19	40	76	1887	574	30.44	0.47
34/7-23S	NOR	94014- 68	3365	3374	1663	626	342	37	76	155	2743	1080	39.38	0.49

OCCLUDED GAS DATA

Table 5

Well name	Nation	Sample Name	Upper Depth	Lower Depth	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
34/7-23S	NOR	94014- 1	380	400	79	2	1	0	2	30	85	6	6.99	0.27
34/7-23S	NOR	94014- 2	540	560	153	5	1	0	2	13	161	8	4.90	
34/7-23S	NOR	94014- 3	700	720	140	3	1	0	1	15	145	5	3.38	0.38
34/7-23S	NOR	94014- 4	860	880	163	6	1	0	0	26	170	7	3.89	
34/7-23S	NOR	94014- 5	1020	1040	154	6	3	0	0	12	163	9	5.49	
34/7-23S	NOR	94014- 6	1180	1200	297	3	2	0	0	59	301	5	1.57	
34/7-23S	NOR	94014- 7	1340	1360	49	2	12	0	0	29	62	13	21.17	
34/7-23S	NOR	94014- 8	1480	1500	16	2	3	0	0	42	21	5	24.24	
34/7-23S	NOR	94014- 9	1640	1660	10	2	2	0	0	135	14	4	31.20	
34/7-23S	NOR	94014- 10	1800	1820	49	22	18	2	7	331	98	49	49.85	0.31
34/7-23S	NOR	94014- 11	1980	2000	14	2	3	1	1	256	21	7	33.44	0.96
34/7-23S	NOR	94014- 12	2020	2040	100	11	9	19	4	740	143	43	30.30	4.60
34/7-23S	NOR	94014- 13	2060	2080	37	6	2	0	0	81	45	8	17.96	
34/7-23S	NOR	94014- 14	2100	2120	41	7	5	1	3	119	58	16	28.04	0.44
34/7-23S	NOR	94014- 15	2140	2160	28	3	2	2	0	169	35	7	20.39	
34/7-23S	NOR	94014- 16	2180	2200	116	21	14	25	6	568	182	67	36.51	4.00
34/7-23S	NOR	94014- 17	2220	2240	138	16	11	4	4	237	173	35	20.16	1.03
34/7-23S	NOR	94014- 18	2260	2280	102	17	13	4	7	195	143	42	29.01	0.55
34/7-23S	NOR	94014- 19	2300	2320	70	16	12	3	7	171	109	39	35.42	0.43
34/7-23S	NOR	94014- 20	2340	2350	52	2	3	2	1	81	59	7	11.96	1.50
34/7-23S	NOR	94014- 21	2370	2380	24	2	4	3	3	66	36	12	32.09	0.88
34/7-23S	NOR	94014- 22	2400	2410	15	6	10	3	7	85	41	26	63.47	0.48
34/7-23S	NOR	94014- 23	2430	2440	110	20	33	11	21	179	196	85	43.56	0.54
34/7-23S	NOR	94014- 24	2460	2470	56	11	22	8	18	139	115	59	51.41	0.46
34/7-23S	NOR	94014- 25	2490	2500	57	10	27	9	24	129	127	70	55.43	0.40
34/7-23S	NOR	94014- 26	2520	2530	22	7	27	11	30	125	97	75	76.97	0.36
34/7-23S	NOR	94014- 27	2550	2560	31	13	44	13	40	145	142	111	78.20	0.33
34/7-23S	NOR	94014- 28	2580	2590	39	9	31	10	36	148	126	87	68.91	0.28
34/7-23S	NOR	94014- 29	2600	2610	96	21	27	6	28	201	178	82	46.15	0.21
34/7-23S	NOR	94014- 30	2620	2630	28	7	29	12	44	148	121	92	76.47	0.27
34/7-23S	NOR	94014- 31	2640	2650	65	16	44	18	58	214	200	136	67.76	0.30
34/7-23S	NOR	94014- 32	2660	2670	20	7	33	10	54	228	125	104	83.71	0.19
34/7-23S	NOR	94014- 33	2680	2690	15	5	17	4	25	227	65	51	77.52	0.14

OCCLUDED GAS DATA

Table 5

Well name	Nation	Sample Name	Upper Depth	Lower Depth	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
34/7-23S	NOR	94014- 34	2700	2710	20	4	15	5	23	255	67	47	70.27	0.22
34/7-23S	NOR	94014- 35	2720	2730	58	16	40	19	82	1742	216	158	72.96	0.23
34/7-23S	NOR	94014- 36	2740	2750	41	22	145	78	287	3921	573	532	92.85	0.27
34/7-23S	NOR	94014- 37	2760	2770	60	14	85	31	126	1830	315	256	81.11	0.25
34/7-23S	NOR	94014- 38	2780	2790	35	23	108	41	178	1945	386	351	90.91	0.23
34/7-23S	NOR	94014- 39	2800	2810	53	27	155	74	259	1857	568	515	90.63	0.29
34/7-23S	NOR	94014- 40	2820	2830	75	36	168	62	229	1642	569	494	86.76	0.27
34/7-23S	NOR	94014- 41	2840	2850	51	22	98	23	88	528	282	231	81.89	0.26
34/7-23S	NOR	94014- 42	2860	2870	72	20	95	27	90	484	304	232	76.32	0.30
34/7-23S	NOR	94014- 43	2880	2890	97	49	224	59	181	947	610	513	84.12	0.32
34/7-23S	NOR	94014- 44	2900	2910	95	34	152	37	116	696	434	339	78.14	0.32
34/7-23S	NOR	94014- 45	2920	2930	109	51	206	48	132	918	546	437	80.05	0.36
34/7-23S	NOR	94014- 46	2940	2950	79	37	198	49	127	803	491	411	83.85	0.38
34/7-23S	NOR	94014- 47	2960	2970	61	30	172	43	125	681	431	370	85.76	0.34
34/7-23S	NOR	94014- 48	2980	2990	51	13	45	13	53	364	174	124	70.88	0.24
34/7-23S	NOR	94014- 49	3000	3010	70	25	59	13	69	463	236	167	70.56	0.19
34/7-23S	NOR	94014- 50	3020	3030	75	27	46	9	52	369	209	133	63.84	0.17
34/7-23S	NOR	94014- 51	3040	3050	59	15	34	8	57	495	174	115	65.85	0.14
34/7-23S	NOR	94014- 52	3060	3070	50	13	66	26	140	1365	296	246	83.03	0.19
34/7-23S	NOR	94014- 53	3075	3098	628	384	3297	1557	6020	39588	11886	11258	94.72	0.26
34/7-23S	NOR	94014- 54	3098	3127	116	156	1225	466	1785	5277	3748	3632	96.90	0.26
34/7-23S	NOR	94014- 55	3133	3140	107	143	657	259	865	3925	2030	1923	94.71	0.30
34/7-23S	NOR	94014- 56	3149	3158	1841	7737	8858	2128	3679	7478	24242	22401	92.41	0.58
34/7-23S	NOR	94014- 57	3167	3176	2243	6283	5749	1487	2626	6323	18388	16145	87.80	0.57
34/7-23S	NOR	94014- 58	3185	3194	309	875	978	261	583	2951	3007	2698	89.72	0.45
34/7-23S	NOR	94014- 59	3203	3212	309	461	1070	366	845	4174	3051	2742	89.88	0.43
34/7-23S	NOR	94014- 60	3221	3230	690	3889	5300	1234	2576	4622	13687	12998	94.96	0.48
34/7-23S	NOR	94014- 61	3239	3248	119	224	720	252	594	2468	1908	1789	93.75	0.42
34/7-23S	NOR	94014- 62	3257	3266	166	552	982	202	494	1789	2397	2231	93.07	0.41
34/7-23S	NOR	94014- 63	3275	3284	116	306	804	206	512	1831	1944	1829	94.04	0.40
34/7-23S	NOR	94014- 64	3293	3302	117	519	1263	328	769	1883	2996	2879	96.10	0.43
34/7-23S	NOR	94014- 65	3311	3320	108	517	1413	360	839	1773	3238	3130	96.67	0.43
34/7-23S	NOR	94014- 66	3329	3338	90	465	1326	337	809	1645	3028	2938	97.01	0.42
34/7-23S	NOR	94014- 67	3347	3356	98	61	136	24	89	711	408	310	76.08	0.27
34/7-23S	NOR	94014- 68	3365	3374	107	42	142	24	92	577	408	301	73.73	0.26

COMBIENED HEADSPACE & OCCLUDED GAS DATA

Table 6

Well name	Nation	Sample Name	Upper Depth	Lower Depth	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
34/7-23S	NOR	94014- 1	380	400	7833	8	3	1	3	48	7848	15	0.19	0.30
34/7-23S	NOR	94014- 2	540	560	16046	25	4	0	2	21	16076	30	0.19	0.00
34/7-23S	NOR	94014- 3	700	720	9339	16	2	1	2	22	9361	22	0.23	0.45
34/7-23S	NOR	94014- 4	860	880	5629	12	2	1	0	36	5645	16	0.28	2.70
34/7-23S	NOR	94014- 5	1020	1040	4422	11	4	0	0	15	4438	16	0.35	0.92
34/7-23S	NOR	94014- 6	1180	1200	20811	60	11	1	1	79	20884	73	0.35	0.67
34/7-23S	NOR	94014- 7	1340	1360	10314	30	28	0	0	32	10372	58	0.56	
34/7-23S	NOR	94014- 8	1480	1500	7055	17	15	0	2	54	7090	35	0.49	0.14
34/7-23S	NOR	94014- 9	1640	1660	9622	96	12	10	4	150	9744	122	1.25	2.59
34/7-23S	NOR	94014- 10	1800	1820	4886	157	32	43	19	367	5138	252	4.90	2.25
34/7-23S	NOR	94014- 11	1980	2000	8219	312	23	73	14	379	8642	423	4.90	5.11
34/7-23S	NOR	94014- 12	2020	2040	5371	263	28	97	17	880	5775	405	7.01	5.83
34/7-23S	NOR	94014- 13	2060	2080	5733	212	14	26	5	126	5991	257	4.30	4.85
34/7-23S	NOR	94014- 14	2100	2120	4446	128	14	26	8	173	4622	176	3.81	3.03
34/7-23S	NOR	94014- 15	2140	2160	6165	219	15	59	7	272	6466	301	4.66	7.96
34/7-23S	NOR	94014- 16	2180	2200	401	33	14	28	7	625	482	81	16.89	4.30
34/7-23S	NOR	94014- 17	2220	2240	4929	242	24	20	7	269	5222	293	5.62	2.82
34/7-23S	NOR	94014- 18	2260	2280	8830	389	55	34	16	242	9325	495	5.31	2.10
34/7-23S	NOR	94014- 19	2300	2320	2816	120	34	17	13	196	3000	184	6.13	1.33
34/7-23S	NOR	94014- 20	2340	2350	2778	106	27	11	6	96	2928	150	5.12	1.80
34/7-23S	NOR	94014- 21	2370	2380	3805	204	64	21	14	93	4108	303	7.37	1.44
34/7-23S	NOR	94014- 22	2400	2410	4114	246	101	25	26	124	4511	397	8.80	0.97
34/7-23S	NOR	94014- 23	2430	2440	2691	200	111	29	37	206	3069	377	12.30	0.78
34/7-23S	NOR	94014- 24	2460	2470	3692	262	181	43	58	182	4236	544	12.83	0.74
34/7-23S	NOR	94014- 25	2490	2500	6073	634	453	86	125	211	7370	1297	17.60	0.68
34/7-23S	NOR	94014- 26	2520	2530	3204	430	380	76	129	191	4218	1014	24.05	0.59
34/7-23S	NOR	94014- 27	2550	2560	4258	507	407	70	140	201	5381	1124	20.88	0.50
34/7-23S	NOR	94014- 28	2580	2590	3247	423	341	60	130	193	4203	955	22.73	0.46
34/7-23S	NOR	94014- 29	2600	2610	4685	437	289	45	114	244	5570	885	15.89	0.39
34/7-23S	NOR	94014- 30	2620	2630	4710	601	555	100	266	306	6233	1523	24.43	0.38
34/7-23S	NOR	94014- 31	2640	2650	1946	289	303	58	172	314	2768	822	29.71	0.34
34/7-23S	NOR	94014- 32	2660	2670	3706	516	490	86	254	405	5052	1347	26.66	0.34
34/7-23S	NOR	94014- 33	2680	2690	2465	300	326	62	198	455	3351	886	26.43	0.31

COMBIENED HEADSPACE & OCCLUDED GAS DATA

Table 6

Well name	Nation	Sample Name	Upper Depth	Lower Depth	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
34/7-23S	NOR	94014- 34	2700	2710	1758	164	170	29	97	387	2218	459	20.71	0.30
34/7-23S	NOR	94014- 35	2720	2730	2922	368	480	141	359	2310	4270	1348	31.57	0.39
34/7-23S	NOR	94014- 36	2740	2750	3335	700	1163	366	902	4987	6466	3131	48.43	0.41
34/7-23S	NOR	94014- 37	2760	2770	3272	428	561	133	370	2348	4764	1492	31.31	0.36
34/7-23S	NOR	94014- 38	2780	2790	2472	483	702	162	466	2493	4285	1813	42.31	0.35
34/7-23S	NOR	94014- 39	2800	2810	3254	793	935	216	592	2388	5790	2536	43.80	0.37
34/7-23S	NOR	94014- 40	2820	2830	2503	811	1059	235	607	2186	5215	2712	52.01	0.39
34/7-23S	NOR	94014- 41	2840	2850	1437	305	379	63	182	673	2366	929	39.28	0.35
34/7-23S	NOR	94014- 42	2860	2870	1374	422	491	85	205	625	2577	1203	46.68	0.41
34/7-23S	NOR	94014- 43	2880	2890	1788	576	700	125	301	1102	3490	1702	48.77	0.41
34/7-23S	NOR	94014- 44	2900	2910	1500	486	574	91	205	815	2857	1356	47.48	0.45
34/7-23S	NOR	94014- 45	2920	2930	1411	658	775	117	238	1072	3200	1789	55.90	0.49
34/7-23S	NOR	94014- 46	2940	2950	1492	567	702	109	226	960	3095	1603	51.81	0.48
34/7-23S	NOR	94014- 47	2960	2970	1103	609	771	121	253	845	2856	1754	61.40	0.48
34/7-23S	NOR	94014- 48	2980	2990	340	181	372	74	186	557	1152	812	70.47	0.40
34/7-23S	NOR	94014- 49	3000	3010	338	123	196	38	121	512	816	478	58.56	0.31
34/7-23S	NOR	94014- 50	3020	3030	485	134	205	36	123	451	983	498	50.66	0.29
34/7-23S	NOR	94014- 51	3040	3050	457	245	489	96	284	778	1571	1114	70.90	0.34
34/7-23S	NOR	94014- 52	3060	3070	463	303	691	138	472	2001	2067	1604	77.59	0.29
34/7-23S	NOR	94014- 53	3075	3098	14474	10303	16579	4865	12611	47842	58832	44359	75.40	0.39
34/7-23S	NOR	94014- 54	3098	3127	2234	1214	3076	786	2687	6349	9997	7763	77.65	0.29
34/7-23S	NOR	94014- 55	3133	3140	2117	1208	1646	420	1224	4445	6615	4498	68.00	0.34
34/7-23S	NOR	94014- 56	3149	3158	33991	19475	13980	3038	4692	8551	75177	41185	54.78	0.65
34/7-23S	NOR	94014- 57	3167	3176	35403	16417	9623	2208	3410	7236	67061	31658	47.21	0.65
34/7-23S	NOR	94014- 58	3185	3194	6088	2420	1527	378	692	3219	11105	5017	45.18	0.55
34/7-23S	NOR	94014- 59	3203	3212	5516	2546	2018	519	1086	4522	11685	6169	52.80	0.48
34/7-23S	NOR	94014- 60	3221	3230	12858	9145	7682	1604	3129	5222	34418	21559	62.64	0.51
34/7-23S	NOR	94014- 61	3239	3248	467	345	778	260	607	2550	2457	1990	81.00	0.43
34/7-23S	NOR	94014- 62	3257	3266	4855	1851	1536	276	608	1985	9126	4271	46.80	0.45
34/7-23S	NOR	94014- 63	3275	3284	2557	1293	1409	291	659	2074	6209	3651	58.81	0.44
34/7-23S	NOR	94014- 64	3293	3302	9973	4492	3892	802	1494	2661	20652	10679	51.71	0.54
34/7-23S	NOR	94014- 65	3311	3320	10522	5173	4377	946	1616	2414	22635	12113	53.51	0.59
34/7-23S	NOR	94014- 66	3329	3338	10126	4407	3724	756	1423	2273	20436	10311	50.45	0.53
34/7-23S	NOR	94014- 67	3347	3356	1410	398	315	43	129	787	2295	884	38.55	0.33
34/7-23S	NOR	94014- 68	3365	3374	1770	668	484	61	168	732	3151	1381	43.83	0.37

LITHOLOGY DESCRIPTIONS

Table 7

Well name	Nation	Sample Name	Upper Depth	Lower Depth	Lithology description
34/7-23S	NOR	94014- 1	380	400	Sst, lt olv gy + mnr Cmt
34/7-23S	NOR	94014- 2	540	560	Sst, lt olv gy + tr Sh frag
34/7-23S	NOR	94014- 3	700	720	Sst, lt olv gy + tr Sh frag
34/7-23S	NOR	94014- 4	860	880	Sst, lt olv gy + mnr Dol, dk gy + tr Sh frag + tr Lst, v lt gy
34/7-23S	NOR	94014- 5	1020	1040	Sst, lt olv gy + 10% Dol?, dk gy + 10% Sh frag
34/7-23S	NOR	94014- 6	1180	1200	Clyst, lt olv gy
34/7-23S	NOR	94014- 7	1340	1360	Clyst, lt olv gy + 20% Clyst, lt med gy
34/7-23S	NOR	94014- 8	1480	1500	Clyst, olv gy + mnr Lst wht + mnr Sd
34/7-23S	NOR	94014- 9	1640	1660	Clyst, olv gy + mnr Lst wht
34/7-23S	NOR	94014- 10	1800	1820	Clyst, olv gy + mnr Lst wht
34/7-23S	NOR	94014- 11	1980	2000	Clyst, grn gy + 30% Clyst, rd gy + mnr Clyst, lt olv gy
34/7-23S	NOR	94014- 12	2020	2040	Clyst, olv gy + 10% Sh, gn gy + 10% Clyst, dk gy + mnr Sh, rd gy + mnr Sh, lt olv gy
34/7-23S	NOR	94014- 13	2060	2080	Clyst, lt olv gy + 10% Clyst, olv gy + mnr Sh, rd gy
34/7-23S	NOR	94014- 14	2100	2120	Clyst, olv gy + 10% Clyst, lt olv gy
34/7-23S	NOR	94014- 15	2140	2160	Clyst, olv gy + mnr Sh, rd gy + tr Lst, wht
34/7-23S	NOR	94014- 16	2180	2200	Clyst, lt med gy + 10% Clyst, med dk gy
34/7-23S	NOR	94014- 17	2220	2240	Clyst, olv gy + 20% Sd + mnr Sst, wht, calc
34/7-23S	NOR	94014- 18	2260	2280	Clyst, olv gy + mnr Sh, rd gy + mnr Lst, v lt gy
34/7-23S	NOR	94014- 19	2300	2320	Clyst, lt olv gy + 10% Sd + mnr Clyst, olv gy + mnr Lst, v lt gy
34/7-23S	NOR	94014- 20	2340	2350	Clyst, lt olv gy + mnr Lst, v lt gy + mnr Sh rd gy + tr Sh frag
34/7-23S	NOR	94014- 21	2370	2380	Clyst, med gy, calc + 10% med dk gy + mnr Lst, wht
34/7-23S	NOR	94014- 22	2400	2410	Clyst, med gy, calc + mnr Lst, wht
34/7-23S	NOR	94014- 23	2430	2440	Clyst, med gy, calc + 10% Sd
34/7-23S	NOR	94014- 24	2460	2470	Clyst, med gy, calc + tr Lst, wht
34/7-23S	NOR	94014- 25	2490	2500	Clyst, med gy, calc + tr Cmt
34/7-23S	NOR	94014- 26	2520	2530	Clyst, med gy, calc + tr Cmt
34/7-23S	NOR	94014- 27	2550	2560	Clyst, med dk gy + mnr Cmt
34/7-23S	NOR	94014- 28	2580	2590	Clyst, med dk gy + tr Cmt
34/7-23S	NOR	94014- 29	2600	2610	Clyst, olv gy, calc + 30% Clyst rd gy, calc + mnr Clyst, v lt gy, calc
34/7-23S	NOR	94014- 30	2620	2630	Clyst, olv gy, calc + 10% Clyst rd gy, calc + mnr Clyst, v lt gy, calc
34/7-23S	NOR	94014- 31	2640	2650	Clyst, olv gy, calc + 10% Sh frag + mnr Sh rd gy + mnr Mic + tr Clyst, v lt gy, calc
34/7-23S	NOR	94014- 32	2660	2670	Clyst, med gy, calc + mnr Lst, wht
34/7-23S	NOR	94014- 33	2680	2690	Clyst, med gy, calc + tr Clyst, rd gy

LITHOLOGY DESCRIPTIONS

Table 7

Well name	Nation	Sample Name	Upper Depth	Lower Depth	Lithology description
34/7-23S	NOR	94014- 34	2700	2710	Clyst, med gy, calc
34/7-23S	NOR	94014- 35	2720	2730	Clyst, olv gy, calc + 10% Clyst, dk gy + mnr Lst, wht
34/7-23S	NOR	94014- 36	2740	2750	Clyst, olv gy, calc + 10% Clyst, dk gy + mnr Lst, wht
34/7-23S	NOR	94014- 37	2760	2770	Clyst, olv gy, calc + 10% Clyst, dk gy + mnr Lst, wht
34/7-23S	NOR	94014- 38	2780	2790	Clyst, olv gy, calc + 10% Clyst, dk gy + mnr Lst, wht
34/7-23S	NOR	94014- 39	2800	2810	Clyst, olv gy, calc + 10% Clyst, dk gy + tr Lst, wht
34/7-23S	NOR	94014- 40	2820	2830	Clyst, olv gy, calc + mnr Clyst, dk gy + tr Lst, wht
34/7-23S	NOR	94014- 41	2840	2850	Clyst, olv gy, calc + 10% Clyst, dk gy + tr Lst, v lt gy
34/7-23S	NOR	94014- 42	2860	2870	Clyst, olv gy, calc + 10% Clyst, dk gy + mnr Lst, v lt gy
34/7-23S	NOR	94014- 43	2880	2890	Clyst, olv gy, calc + 10% Clyst, dk gy + tr Lst, v lt gy
34/7-23S	NOR	94014- 44	2900	2910	Clyst, olv gy, calc + tr Lst, wht
34/7-23S	NOR	94014- 45	2920	2930	Clyst, olv gy, calc + tr Clyst, v lt gy, calc + tr Lst, wht
34/7-23S	NOR	94014- 46	2940	2950	Clyst, olv gy, calc + tr Clyst, v lt gy, calc + tr Lst, wht
34/7-23S	NOR	94014- 47	2960	2970	Clyst, olv gy, calc + mnr Clyst, rd gy, calc + tr Clyst, lt olv gy, calc + tr Lst, wht
34/7-23S	NOR	94014- 48	2980	2990	Clyst, med gy + 20% Clyst, dk gy + mnr Clyst, lt olv gy, calc + tr Clyst rd gy
34/7-23S	NOR	94014- 49	3000	3010	Clyst, med gy + 20% Clyst, dk gy + mnr Clyst, lt olv gy, calc
34/7-23S	NOR	94014- 50	3020	3030	Clyst, med gy + 30% Clyst, dk gy + mnr Clyst, lt olv gy, calc
34/7-23S	NOR	94014- 51	3040	3050	Clyst, med gy + 30% Clyst, dk gy + 10% Clyst, lt olv gy, calc
34/7-23S	NOR	94014- 52	3060	3070	Clyst, med gy + 20% Clyst, dk gy + 10% Clyst, lt olv gy, calc
34/7-23S	NOR	94014- 53	3075	3098	Clyst, lt olv gy, calc + 20% Sh, med dk gy + 10% Sh, v dsky rd + 10% Sh, gn gy + mnr Lst
34/7-23S	NOR	94014- 54	3098	3127	Clyst, lt olv gy + 20% Clyst, dk gy + 10% Sd + 10% Mic
34/7-23S	NOR	94014- 55	3133	3140	Clyst, lt olv gy + 20% Clyst, v lt gy + 20% Clyst, dk gy + 10% Mic + mnr Sd
34/7-23S	NOR	94014- 56	3149	3158	Clyst, olv blk, calc + mnr Clyst, v lt gy
34/7-23S	NOR	94014- 57	3167	3176	Clyst, olv blk, calc + mnr Clyst, v lt gy
34/7-23S	NOR	94014- 58	3185	3194	Clyst, olv gy + 10% Clyst, olv blk + mnr Clyst, lt gy
34/7-23S	NOR	94014- 59	3203	3212	Clyst, olv gy + 10% Clyst, olv blk + mnr Clyst, lt gy
34/7-23S	NOR	94014- 60	3221	3230	Clyst, olv gy + 10% Clyst, olv blk + tr Lst, v lt gy
34/7-23S	NOR	94014- 61	3239	3248	Clyst, olv gy + 10% Clyst, olv blk + mnr Clyst, lt olv gy + tr Lst, wht
34/7-23S	NOR	94014- 62	3257	3266	Clyst, olv gy + 20% Clyst, olv blk + 10% Clyst, lt olv gy
34/7-23S	NOR	94014- 63	3275	3284	Clyst, olv gy, calc + 30% Clyst, olv blk + mnr Clyst, lt olv gy, calc
34/7-23S	NOR	94014- 64	3293	3302	Clyst, olv gy, calc
34/7-23S	NOR	94014- 65	3311	3320	Sst, lt olv gy, calc + 10% Clyst, olv blk + mnr Clyst, lt olv gy
34/7-23S	NOR	94014- 66	3329	3338	Sst, lt olv gy, calc + tr Clyst, olv blk + tr Lst, wht
34/7-23S	NOR	94014- 67	3347	3356	Clyst, olv gy, sdy + mnr Sst, lt olv gy, calc
34/7-23S	NOR	94014- 68	3365	3374	Sst, lt olv gy, calc + mnr Sh, med dk gy + mnr Sst, v lt gy, calc

Well name	Nation	Sample Name		Upper Depth	Lower Depth	Lithology description
34/7–23S	NOR	94014–	53	3075.00	3098.00	Clyst, lt olv gy, calc
34/7–23S	NOR	94014–	54	3098.00	3127.00	Clyst, dk gy
34/7–23S	NOR	94014–	55	3133.00	3140.00	Clyst, lt olv gy
34/7–23S	NOR	94014–	56	3149.00	3158.00	Clyst, olv blk, calc
34/7–23S	NOR	94014–	57	3167.00	3176.00	Clyst, olv blk, calc
34/7–23S	NOR	94014–	58	3185.00	3194.00	Clyst, olv gy
34/7–23S	NOR	94014–	59	3203.00	3212.00	Clyst, olv gy
34/7–23S	NOR	94014–	60	3221.00	3230.00	Clyst, olv gy
34/7–23S	NOR	94014–	61	3239.00	3248.00	Clyst, olv gy
34/7–23S	NOR	94014–	62	3257.00	3266.00	Clyst, olv gy
34/7–23S	NOR	94014–	63	3275.00	3284.00	Clyst, olv blk
34/7–23S	NOR	94014–	64	3293.00	3302.00	Clyst, olv gy, calc
34/7–23S	NOR	94014–	65	3311.00	3320.00	Clyst, olv blk

Table 9

Well Name	Nation	Sample Name	Upper depth	Lower depth	Sample Type	Lith	S1 mg/g	S2 mg/g	S3 mg/g	Tmax deg C	TOC % wt	HI	OI	PI
34/7-23S	NOR	94014- 53A	3075.00	3098.00	CUT	Clyst, lt olv gy	1.95	2.17	3.50		0.74	293	473	0.47
34/7-23S	NOR	94014- 88	3106.00	3106.00	CCP	Sh	3.18	21.64	0.60	423	5.23	414	11	0.13
34/7-23S	NOR	94014- 89	3107.00	3107.00	CCP	Sh	3.32	9.55	0.73	420	3.49	274	21	0.26
34/7-23S	NOR	94014- 90	3107.70	3107.70	CCP	Sh	1.86	6.57	1.00	422	1.75	375	57	0.22
34/7-23S	NOR	94014- 91	3108.00	3108.00	CCP	Sh	1.56	20.55	0.76	426	4.69	438	16	0.07
34/7-23S	NOR	94014- 92	3109.00	3109.00	CCP	Sh	1.33	13.05	0.66	423	3.28	398	20	0.09
34/7-23S	NOR	94014- 93	3109.70	3109.70	CCP	Sh	1.42	24.08	0.80	424	5.42	444	15	0.06
34/7-23S	NOR	94014- 94	3110.80	3110.80	CCP	Sh	3.05	74.26	1.63	421	11.80	629	14	0.04
34/7-23S	NOR	94014- 95	3112.00	3112.00	CCP	Sh	1.37	31.37	0.80	423	5.87	534	14	0.04
34/7-23S	NOR	94014- 96	3113.00	3113.00	CCP	Sh	1.87	43.78	0.85	424	7.91	553	11	0.04
34/7-23S	NOR	94014- 97	3114.00	3114.00	CCP	Sh	1.76	36.50	0.93	425	7.07	516	13	0.05
34/7-23S	NOR	94014- 98	3115.00	3115.00	CCP	Sh	1.81	39.23	1.13	423	7.32	536	15	0.04
34/7-23S	NOR	94014- 99	3116.00	3116.00	CCP	Sh	1.86	45.83	1.19	423	8.71	526	14	0.04
34/7-23S	NOR	94014- 100	3117.00	3117.00	CCP	Sh	0.92	31.65	1.06	423	7.46	424	14	0.03
34/7-23S	NOR	94014- 101	3118.00	3118.00	CCP	Sh	1.60	45.34	1.23	422	8.71	521	14	0.03
34/7-23S	NOR	94014- 102	3119.00	3119.00	CCP	Sh	1.85	36.58	1.56	420	6.75	542	23	0.05
34/7-23S	NOR	94014- 103	3120.00	3120.00	CCP	Sh	1.15	33.59	1.82	420	7.98	421	23	0.03
34/7-23S	NOR	94014- 104	3121.00	3121.00	CCP	Sh	1.25	32.65	1.34	421	7.62	428	18	0.04
34/7-23S	NOR	94014- 105	3122.00	3122.00	CCP	Sh	1.34	33.24	1.23	417	8.63	385	14	0.04
34/7-23S	NOR	94014- 106	3123.00	3123.00	CCP	Sh	1.03	16.79	1.03	420	4.95	339	21	0.06
34/7-23S	NOR	94014- 107	3124.00	3124.00	CCP	Sh	1.22	22.96	1.34	425	6.02	381	22	0.05
34/7-23S	NOR	94014- 108	3125.00	3125.00	CCP	Sh	0.88	14.26	1.00	425	4.26	335	23	0.06
34/7-23S	NOR	94014- 109	3126.00	3126.00	CCP	Sh	1.32	28.58	1.32	422	6.45	443	20	0.04
34/7-23S	NOR	94014- 54A	3098.00	3127.00	CUT	Clyst, dk gy	6.23	23.19	3.82	423	5.23	443	73	0.21
34/7-23S	NOR	94014- 110	3127.11	3127.11	CCP	Sh	1.24	27.00	1.37	420	7.22	374	19	0.04
34/7-23S	NOR	94014- 111	3128.00	3128.00	CCP	Sh	1.32	35.79	1.42	421	8.00	447	18	0.04
34/7-23S	NOR	94014- 112	3129.00	3129.00	CCP	Sh	1.08	22.79	1.05	420	5.92	385	18	0.05
34/7-23S	NOR	94014- 113	3130.00	3130.00	CCP	Sh	0.85	16.78	0.97	421	5.19	323	19	0.05
34/7-23S	NOR	94014- 114	3131.00	3131.00	CCP	Sh	0.77	14.54	0.86	420	4.99	291	17	0.05
34/7-23S	NOR	94014- 115	3132.00	3132.00	CCP	Sh	0.64	12.03	0.91	420	4.45	270	20	0.05
34/7-23S	NOR	94014- 116	3133.00	3133.00	CCP	Sh	0.89	20.74	1.07	422	6.52	318	16	0.04
34/7-23S	NOR	94014- 120	3134.00	3134.00	CCP	Sh	0.61	18.61	1.04	415	6.78	274	15	0.03
34/7-23S	NOR	94014- 121	3135.00	3135.00	CCP	Sh	1.46	27.47	1.02	419	7.72	356	13	0.05
34/7-23S	NOR	94014- 122	3136.00	3136.00	CCP	Sh	1.32	28.20	1.14	415	8.08	349	14	0.04
34/7-23S	NOR	94014- 55A	3133.00	3140.00	CUT	Clyst, lt olv gy	0.19	1.77	2.84		0.88	201	323	0.10
34/7-23S	NOR	94014- 56A	3149.00	3158.00	CUT	Clyst, olv blk	2.66	23.84	4.44	425	8.10	294	55	0.10
34/7-23S	NOR	94014- 57A	3167.00	3176.00	CUT	Clyst, olv blk	2.13	22.44	3.65	427	8.26	272	44	0.09
34/7-23S	NOR	94014- 58A	3185.00	3194.00	CUT	Clyst, olv gy	0.61	7.93	3.41	428	5.57	142	61	0.07
34/7-23S	NOR	94014- 59A	3203.00	3212.00	CUT	Clyst, olv gy	0.76	12.02	3.19	427	4.59	262	69	0.06
34/7-23S	NOR	94014- 60A	3221.00	3230.00	CUT	Clyst, olv gy	0.95	12.66	3.08	432	3.45	367	89	0.07
34/7-23S	NOR	94014- 61A	3239.00	3248.00	CUT	Clyst, olv gy	0.52	6.87	2.64	433	2.77	248	95	0.07
34/7-23S	NOR	94014- 62A	3257.00	3266.00	CUT	Clyst, olv gy	0.38	6.28	2.57	434	2.08	302	124	0.06
34/7-23S	NOR	94014- 63A	3275.00	3284.00	CUT	Clyst, olv blk	0.31	4.20	2.14	435	2.18	193	98	0.07
34/7-23S	NOR	94014- 64A	3293.00	3302.00	CUT	Clyst, olv gy	0.61	5.76	2.47	438	2.75	209	90	0.10
34/7-23S	NOR	94014- 65A	3311.00	3320.00	CUT	Clyst, olv gy	1.44	6.35	3.01	439	2.77	229	109	0.18

Well Name	Nation	Sample Name	Upper depth	Lower depth	Sample Type	Lith	S1 mg/g	S2 mg/g	S3 mg/g	Tmax deg C	TOC % wt	HI	OI	PI
34/7-23A	NOR	94014- 171	3246.00	3246.00	CCP	Sh	0.83	0.61	0.89	423	0.69	88	129	0.58
34/7-23A	NOR	94014- 172	3247.00	3247.00	CCP	Sh	1.70	11.14	0.91	424	3.42	326	27	0.13
34/7-23A	NOR	94014- 173	3248.00	3248.00	CCP	Sh	2.20	16.76	1.19	423	4.32	388	28	0.12
34/7-23A	NOR	94014- 174	3249.00	3249.00	CCP	Sh	1.41	18.75	0.90	423	4.55	412	20	0.07
34/7-23A	NOR	94014- 175	3250.00	3250.00	CCP	Sh	1.38	24.48	0.86	423	4.80	510	18	0.05
34/7-23A	NOR	94014- 176	3251.00	3251.00	CCP	Sh	1.08	19.45	0.84	420	4.92	395	17	0.05
34/7-23A	NOR	94014- 177	3252.00	3252.00	CCP	Sh	0.90	15.74	0.75	417	4.31	365	17	0.05
34/7-23A	NOR	94014- 178	3253.00	3253.00	CCP	Sh	1.56	24.47	0.99	419	5.42	451	18	0.06
34/7-23A	NOR	94014- 179	3254.00	3254.00	CCP	Sh	1.12	22.15	1.06	420	5.31	417	20	0.05
34/7-23A	NOR	94014- 180	3255.00	3255.00	CCP	Sh	0.96	19.61	1.07	420	4.81	408	22	0.05
34/7-23A	NOR	94014- 181	3256.00	3256.00	CCP	Sh	1.06	25.39	1.21	421	5.37	473	23	0.04
34/7-23A	NOR	94014- 182	3257.00	3257.00	CCP	Sh	1.45	26.46	1.17	421	6.06	437	19	0.05
34/7-23A	NOR	94014- 183	3258.00	3258.00	CCP	Sh	1.22	31.07	1.19	419	6.59	471	18	0.04
34/7-23A	NOR	94014- 184	3259.00	3259.00	CCP	Sh	1.13	27.59	0.96	419	5.81	475	17	0.04
34/7-23A	NOR	94014- 185	3260.00	3260.00	CCP	Sh	1.27	41.27	1.12	420	7.48	552	15	0.03
34/7-23A	NOR	94014- 186	3261.00	3261.00	CCP	Sh	1.23	34.98	1.14	419	6.82	513	17	0.03
34/7-23A	NOR	94014- 187	3262.00	3262.00	CCP	Sh	1.23	34.98	1.14	419	6.82	513	17	0.03
34/7-23A	NOR	94014- 188	3263.00	3263.00	CCP	Sh	1.35	33.71	1.35	420	6.78	497	20	0.04
34/7-23A	NOR	94014- 189	3264.00	3264.00	CCP	Sh	1.46	30.38	1.18	414	6.21	489	19	0.05
34/7-23A	NOR	94014- 190	3265.00	3265.00	CCP	Sh	1.68	36.74	1.03	419	8.24	446	13	0.04
34/7-23A	NOR	94014- 191	3266.00	3266.00	CCP	Sh	1.43	41.10	0.92	419	7.76	530	12	0.03
34/7-23A	NOR	94014- 192	3267.00	3267.00	CCP	Sh	0.62	28.75	1.47	419	6.16	467	24	0.02
34/7-23A	NOR	94014- 193	3268.00	3268.00	CCP	Sh	0.71	30.57	1.71	421	7.12	429	24	0.02
34/7-23A	NOR	94014- 194	3269.00	3269.00	CCP	Sh	0.98	36.64	1.32	420	8.07	454	16	0.03
34/7-23A	NOR	94014- 195	3270.00	3270.00	CCP	Sh	1.25	42.61	1.06	420	8.28	515	13	0.03
34/7-23A	NOR	94014- 196	3271.00	3271.00	CCP	Sh	0.73	33.10	1.46	421	7.72	429	19	0.02
34/7-23A	NOR	94014- 197	3272.00	3272.00	CCP	Sh	1.06	44.84	1.42	419	9.09	493	16	0.02
34/7-23A	NOR	94014- 198	3273.00	3273.00	CCP	Sh	1.21	41.00	1.46	420	8.44	486	17	0.03
34/7-23A	NOR	94014- 199	3274.00	3274.00	CCP	Sh	1.38	39.15	1.50	417	7.68	510	20	0.03
34/7-23A	NOR	94014- 200	3275.00	3275.00	CCP	Sh	1.09	37.12	1.34	419	8.30	447	16	0.03
34/7-23A	NOR	94014- 201	3276.00	3276.00	CCP	Sh	1.90	40.28	1.52	415	10.10	399	15	0.05
34/7-23A	NOR	94014- 202	3277.00	3277.00	CCP	Sh	0.59	19.36	1.37	419	5.53	350	25	0.03
34/7-23A	NOR	94014- 203	3278.00	3278.00	CCP	Sh	0.57	25.26	1.40	420	6.99	361	20	0.02
34/7-23A	NOR	94014- 204	3279.00	3279.00	CCP	Sh	0.84	26.48	1.44	418	7.41	357	19	0.03
34/7-23A	NOR	94014- 205	3280.00	3280.00	CCP	Sh	0.54	21.41	1.46	421	6.49	330	22	0.02
34/7-23A	NOR	94014- 206	3281.00	3281.00	CCP	Sh	0.85	20.03	1.38	419	5.91	339	23	0.04
34/7-23A	NOR	94014- 207	3282.00	3282.00	CCP	Sh	0.43	19.78	1.18	421	5.35	370	22	0.02
34/7-23A	NOR	94014- 208	3283.00	3283.00	CCP	Sh	0.43	12.68	1.50	421	4.78	265	31	0.03
34/7-23A	NOR	94014- 209	3284.00	3284.00	CCP	Sh	0.43	16.06	1.01	419	4.49	358	22	0.03
34/7-23A	NOR	94014- 210	3285.00	3285.00	CCP	Sh	0.54	23.15	1.81	418	6.64	349	27	0.02
34/7-23A	NOR	94014- 211	3286.00	3286.00	CCP	Sh	0.57	34.24	2.23	419	8.35	410	27	0.02
34/7-23A	NOR	94014- 212	3287.00	3287.00	CCP	Sh	0.37	20.49	1.66	421	6.19	331	27	0.02
34/7-23A	NOR	94014- 213	3288.00	3288.00	CCP	Sh	0.52	25.89	1.36	422	6.45	401	21	0.02
34/7-23A	NOR	94014- 214	3289.00	3289.00	CCP	Sh	0.96	42.80	1.93	418	9.47	452	20	0.02
34/7-23A	NOR	94014- 215	3290.00	3290.00	CCP	Sh	0.62	31.24	1.55	421	7.06	442	22	0.02
34/7-23A	NOR	94014- 216	3291.00	3291.00	CCP	Sh	0.46	22.42	1.67	423	6.40	350	26	0.02

Table 10

Well	Nation	Sample Name	Upper Depth	Lower Depth	Sample Type	Lith	Wt of Rock (g)	EOM mg/g	SAT mg/g	ARO mg/g	Polars mg/g
34/7-23S	NOR	94014- 36	2750.00	2750.00	CUT	Bulk	2.0	3.50	0.30	0.18	3.02
34/7-23S	NOR	94014- 70	3079.00	3079.00	CCP	Sst	2.0	15.25	9.61	2.79	2.85
34/7-23S	NOR	94014- 71	3080.00	3080.00	CCP	Sst	2.0	20.80	12.71	3.76	4.33
34/7-23S	NOR	94014- 72	3081.00	3081.00	CCP	Sst	2.0	22.60	14.10	4.25	4.25
34/7-23S	NOR	94014- 73	3082.00	3082.00	CCP	Sst	2.0	18.75	11.96	3.54	3.24
34/7-23S	NOR	94014- 74	3083.00	3083.00	CCP	Sst	2.0	18.75	11.96	3.53	3.26
34/7-23S	NOR	94014- 75	3084.00	3084.00	CCP	Sst	2.0	9.90	5.02	2.08	2.80
34/7-23S	NOR	94014- 76	3085.00	3085.00	CCP	Sst	2.0	25.20	15.42	5.57	4.21
34/7-23S	NOR	94014- 77	3086.00	3086.00	CCP	Sst	2.0	20.30	13.01	4.63	2.66
34/7-23S	NOR	94014- 78	3087.00	3087.00	CCP	Sst	2.0	21.15	13.05	4.70	3.41
34/7-23S	NOR	94014- 79	3088.00	3088.00	CCP	Sst	2.0	18.05	10.52	4.03	3.50
34/7-23S	NOR	94014- 80	3089.00	3089.00	CCP	Sst	2.0	17.15	10.19	3.67	3.29
34/7-23S	NOR	94014- 81	3090.00	3090.00	CCP	Sst	2.0	13.55	6.34	2.82	4.39
34/7-23S	NOR	94014- 82	3091.00	3091.00	CCP	Sst	2.0	15.10	6.63	3.02	5.45
34/7-23S	NOR	94014- 83	3092.00	3092.00	CCP	Sst	2.0	16.70	8.82	3.41	4.48
34/7-23S	NOR	94014- 84	3093.00	3093.00	CCP	Sst	2.0	16.90	9.08	3.35	4.48
34/7-23S	NOR	94014- 85	3094.00	3094.00	CCP	Sst	2.0	16.40	9.23	3.46	3.71
34/7-23S	NOR	94014- 86	3095.00	3095.00	CCP	Sst	2.0	13.10	7.70	2.86	2.54
34/7-23S	NOR	94014- 87	3095.80	3095.80	CCP	Sst	2.0	14.20	8.32	3.14	2.74
34/7-23S	NOR	94014-117	3133.30	3133.30	CCP	Sst, cem	2.0	2.00	0.21	0.23	1.56
34/7-23S	NOR	94014-118	3133.70	3133.70	CCP	Sst, cem	2.0	2.05	0.21	0.31	1.54
34/7-23S	NOR	94014-119	3133.75	3133.75	CCP	Sst, cem	2.0	2.05	0.23	0.39	1.43

Well	Nation	Sample Name	Upper Depth	Lower Depth	Sample Type	Lith	Wt of Rock (g)	EOM mg/g	SAT mg/g	ARO mg/g	Polars mg/g
34/7-23A	NOR	94014-123	3199.00	3199.00	CCP	Marl	2.0	2.10	0.72	0.20	1.18
34/7-23A	NOR	94014-124	3200.00	3200.00	CCP	Marl	2.0	6.85	3.79	1.51	1.55
34/7-23A	NOR	94014-125	3201.00	3201.00	CCP	Marl	2.0	3.60	2.13	0.60	0.87
34/7-23A	NOR	94014-126	3202.00	3202.00	CCP	Marl	2.0	1.65	0.72	0.32	0.61
34/7-23A	NOR	94014-127	3203.00	3203.00	CCP	Marl	2.0	1.20	0.27	0.30	0.63
34/7-23A	NOR	94014-128	3203.50	3203.50	CCP	Sst	2.0	15.35	9.33	4.01	2.01
34/7-23A	NOR	94014-129	3204.00	3204.00	CCP	Sst	2.0	19.95	11.93	5.33	2.69
34/7-23A	NOR	94014-130	3205.00	3205.00	CCP	Sst	2.0	19.95	11.79	5.33	2.83
34/7-23A	NOR	94014-131	3206.00	3206.00	CCP	Sst	2.0	17.80	9.20	4.54	4.06
34/7-23A	NOR	94014-132	3207.00	3207.00	CCP	Sst	2.0	16.15	9.75	4.10	2.29
34/7-23A	NOR	94014-133	3208.00	3208.00	CCP	Sst	2.0	21.90	13.25	5.98	2.67
34/7-23A	NOR	94014-134	3209.00	3209.00	CCP	Sst	2.0	17.55	10.09	4.62	2.84
34/7-23A	NOR	94014-135	3210.00	3210.00	CCP	Sst	2.0	24.25	14.50	6.33	3.42
34/7-23A	NOR	94014-136	3211.00	3211.00	CCP	Sst	2.0	17.60	10.77	4.68	2.15
34/7-23A	NOR	94014-137	3212.00	3212.00	CCP	Sst	2.0	22.70	13.80	5.88	3.02
34/7-23A	NOR	94014-138	3213.00	3213.00	CCP	Sst	2.0	19.90	12.12	5.23	2.55
34/7-23A	NOR	94014-139	3214.00	3214.00	CCP	Sst	2.0	25.75	15.78	6.62	3.35
34/7-23A	NOR	94014-140	3215.00	3215.00	CCP	Sst	2.0	22.80	13.73	5.91	3.17
34/7-23A	NOR	94014-141	3216.00	3216.00	CCP	Sst	2.0	20.55	12.37	4.58	3.60
34/7-23A	NOR	94014-142	3217.00	3217.00	CCP	Sst	2.0	18.50	11.19	4.22	3.09
34/7-23A	NOR	94014-143	3218.00	3218.00	CCP	Sst	2.0	20.35	12.39	4.74	3.22
34/7-23A	NOR	94014-144	3219.00	3219.00	CCP	Sst	2.0	20.55	12.23	4.95	3.37
34/7-23A	NOR	94014-145	3220.00	3220.00	CCP	Sst	2.0	16.65	10.34	3.83	2.48
34/7-23A	NOR	94014-146	3221.00	3221.00	CCP	Sst	2.0	14.50	8.61	3.86	2.03
34/7-23A	NOR	94014-147	3222.00	3222.00	CCP	Sst	2.0	15.75	9.45	3.80	2.50
34/7-23A	NOR	94014-148	3223.00	3223.00	CCP	Sst	2.0	15.25	9.27	3.80	2.18
34/7-23A	NOR	94014-149	3224.00	3224.00	CCP	Sst	2.0	11.40	6.50	2.74	2.17
34/7-23A	NOR	94014-150	3225.00	3225.00	CCP	Sst	2.0	16.20	9.61	4.15	2.45
34/7-23A	NOR	94014-151	3226.00	3226.00	CCP	Sst	2.0	14.20	7.77	3.44	3.00
34/7-23A	NOR	94014-152	3227.00	3227.00	CCP	Sst	2.0	11.30	6.55	2.70	2.05
34/7-23A	NOR	94014-153	3228.00	3228.00	CCP	Sst	2.0	15.65	8.26	3.63	3.76
34/7-23A	NOR	94014-154	3229.00	3229.00	CCP	Sst	2.0	13.80	8.05	3.91	1.85
34/7-23A	NOR	94014-155	3230.00	3230.00	CCP	Sst	2.0	10.25	5.77	2.54	1.94
34/7-23A	NOR	94014-156	3231.00	3231.00	CCP	Sst	2.0	12.85	7.54	3.17	2.13
34/7-23A	NOR	94014-157	3232.00	3232.00	CCP	Sst	2.0	13.05	7.36	3.05	2.64
34/7-23A	NOR	94014-158	3233.00	3233.00	CCP	Sst	2.0	13.40	8.40	3.10	1.90
34/7-23A	NOR	94014-159	3234.00	3234.00	CCP	Sst	2.0	14.95	8.66	3.99	2.30
34/7-23A	NOR	94014-160	3235.00	3235.00	CCP	Sst	2.0	11.50	6.45	2.98	2.07
34/7-23A	NOR	94014-161	3236.00	3236.00	CCP	Sst	2.0	5.35	2.99	1.25	1.12
34/7-23A	NOR	94014-162	3237.00	3237.00	CCP	Sst	2.0	14.95	8.81	3.98	2.17
34/7-23A	NOR	94014-163	3238.00	3238.00	CCP	Sst	2.0	12.90	7.33	3.30	2.27
34/7-23A	NOR	94014-164	3239.00	3239.00	CCP	Sst	2.0	13.80	8.18	3.48	2.14
34/7-23A	NOR	94014-165	3240.00	3240.00	CCP	Sst	2.0	13.90	8.23	3.42	2.25
34/7-23A	NOR	94014-166	3241.00	3241.00	CCP	Sst	2.0	10.90	6.23	2.76	1.91
34/7-23A	NOR	94014-167	3242.00	3242.00	CCP	Sst	2.0	12.05	7.11	2.86	2.08
34/7-23A	NOR	94014-168	3243.00	3243.00	CCP	Sst	2.0	8.80	5.24	1.95	1.60
34/7-23A	NOR	94014-169	3244.00	3244.00	CCP	Sst	2.0	6.65	3.40	1.61	1.64
34/7-23A	NOR	94014-170	3245.00	3245.00	CCP	Sst	2.0	11.30	6.64	2.87	1.79
34/7-23A	NOR	94014-171	3246.00	3246.00	CCP	Sh	2.0	3.60	1.98	0.84	0.77
34/7-23A	NOR	94014-172	3247.00	3247.00	CCP	Sh	2.0	4.90	2.01	1.42	1.47
34/7-23A	NOR	94014-173	3248.00	3248.00	CCP	Sh	2.0	5.40	1.47	1.65	2.28
34/7-23A	NOR	94014-174	3249.00	3249.00	CCP	Sh	2.0	4.05	0.81	0.83	2.42
34/7-23A	NOR	94014-175	3250.00	3250.00	CCP	Sh	2.0	4.55	0.84	1.26	2.45

Extraction & Separation data

Table 11

Well	Nation	Sample Name	Upper Depth	Lower Depth	Sample Type	Lith	Wt of Rock (g)	EOM mg/g	SAT mg/g	ARO mg/g	NSO mg/g	Asph mg/g	Polars mg/g
34/7-23S	NOR	94014- 36	2740.00	2750.00	CUT	Bulk	14.0	5.02	0.13	0.02	4.75	0.12	4.87
34/7-23S	NOR	94014- 71	3080.00	3080.00	CCP	Sst	10.0	22.06	12.77	5.77	3.35	0.18	3.52
34/7-23S	NOR	94014- 76	3085.00	3085.00	CCP	Sst	10.0	28.30	16.24	7.27	3.61	1.19	4.79
34/7-23S	NOR	94014- 81	3090.00	3090.00	CCP	Sst	12.0	13.37	7.01	3.36	2.65	0.35	3.00
34/7-23S	NOR	94014- 86	3095.00	3095.00	CCP	Sst	12.0	18.33	10.24	4.82	2.86	0.40	3.27
34/7-23S	NOR	94014- 91	3108.00	3108.00	CCP	Sh	19.2	4.21	1.11	1.05	1.45	0.59	2.04
34/7-23S	NOR	94014- 94	3110.80	3110.80	CCP	Sh	6.8	9.51	1.17	2.34	3.86	2.15	6.01
34/7-23S	NOR	94014- 96	3113.00	3113.00	CCP	Sh	6.1	6.31	0.72	1.29	2.81	1.49	4.30
34/7-23S	NOR	94014- 105	3122.00	3122.00	CCP	Sh	5.0	8.10	0.69	1.51	3.08	2.82	5.90
34/7-23S	NOR	94014- 108	3125.00	3125.00	CCP	Sh	21.6	4.07	0.55	0.91	1.71	0.89	2.60
34/7-23S	NOR	94014- 111	3128.00	3128.00	CCP	Sh	18.7	6.94	0.86	1.61	2.42	2.05	4.48
34/7-23S	NOR	94014- 115	3132.00	3132.00	CCP	Sh	18.8	3.62	0.37	0.75	1.32	1.19	2.51
34/7-23S	NOR	94014- 122	3136.00	3136.00	CCP	Sh	5.2	7.58	1.26	2.16	3.05	1.11	4.16
34/7-23A	NOR	94014- 130	3205.00	3205.00	CCP	Sst	11.0	21.43	12.94	5.81	2.31	0.36	2.68
34/7-23A	NOR	94014- 140	3215.00	3215.00	CCP	Sst	10.0	24.85	15.10	6.94	2.54	0.27	2.81
34/7-23A	NOR	94014- 150	3225.00	3225.00	CCP	Sst	11.0	20.34	10.79	5.27	3.99	0.28	4.27
34/7-23A	NOR	94014- 160	3235.00	3235.00	CCP	Sst	12.0	13.07	7.13	3.27	2.21	0.46	2.67
34/7-23A	NOR	94014- 170	3245.00	3245.00	CCP	Sst	12.0	13.06	7.32	3.40	1.96	0.38	2.33
34/7-23A	NOR	94014- 173	3248.00	3248.00	CCP	Sh	16.4	6.35	1.83	1.91	1.94	0.68	2.62
34/7-23A	NOR	94014- 183	3258.00	3258.00	CCP	Sh	17.7	5.50	0.78	1.15	2.23	1.34	3.57
34/7-23A	NOR	94014- 190	3265.00	3265.00	CCP	Sh	4.3	8.84	0.88	1.83	4.25	1.88	6.13
34/7-23A	NOR	94014- 201	3276.00	3276.00	CCP	Sh	4.7	11.70	1.22	2.31	5.25	2.93	8.17
34/7-23A	NOR	94014- 202	3277.00	3277.00	CCP	Sh	5.1	5.92	0.54	0.93	3.12	1.33	4.45
34/7-23A	NOR	94014- 209	3284.00	3284.00	CCP	Sh	20.9	4.20	0.55	0.84	1.63	1.17	2.80
34/7-23A	NOR	94014- 214	3289.00	3289.00	CCP	Sh	6.0	10.08	1.02	1.93	4.50	2.63	7.13

SATURATE GC – PEAK HEIGHT DATA

Table 12

Well	Nation	Sample Name	Upper Depth	Lower Depth	Sample Type	Lith	nC17 uV	nC18 uV	nC22 uV	nC27 uV	nC32 uV	Nor pris uV	Pris uV	Phyt uV	CPI1	CPI2	Pris/nC17	Phyt/nC18	Pris/Phyt
34/7–23S	NOR	94014–36	2740.00	2750.00	CUT	Bulk	21419	29212	57480	20346	3496	7247	19530	34880	1.20	1.30	0.91	1.19	0.56
34/7–23S	NOR	94014–71	3080.00	3080.00	CCP	Sst	39926	35820	27076	14914	6551	13008	25586	17907	1.06	1.15	0.64	0.50	1.43
34/7–23S	NOR	94014–76	3085.00	3085.00	CCP	Sst	45882	43363	30222	15308	6790	15784	29953	21435	1.03	1.10	0.65	0.49	1.40
34/7–23S	NOR	94014–81	3090.00	3090.00	CCP	Sst	39905	35199	26483	13436	6557	12762	25768	17858	1.03	1.09	0.65	0.51	1.44
34/7–23S	NOR	94014–86	3095.00	3095.00	CCP	Sst	46203	43776	31890	16883	6966	14375	30772	23198	1.04	1.11	0.67	0.53	1.33
34/7–23S	NOR	94014–91	3108.00	3108.00	CCP	Sh	47406	40746	23038	11618	4612	19076	29689	23163	1.03	1.08	0.63	0.57	1.28
34/7–23S	NOR	94014–94	3110.80	3110.80	CCP	Sh	10187	9420	5583	5048	1197	5110	11071	15595	1.18	1.06	1.09	1.66	0.71
34/7–23S	NOR	94014–96	3113.00	3113.00	CCP	Sh	19139	18392	12128	10675	3449	8551	24334	32713	1.18	1.19	1.27	1.78	0.74
34/7–23S	NOR	94014–105	3122.00	3122.00	CCP	Sh	8213	7679	5786	7768	1776	5104	21149	20838	1.52	1.67	2.58	2.71	1.01
34/7–23S	NOR	94014–108	3125.00	3125.00	CCP	Sh	26272	23959	17181	18472	5037	17783	61885	56601	1.39	1.60	2.36	2.36	1.09
34/7–23S	NOR	94014–111	3128.00	3128.00	CCP	Sh	51879	42183	33609	29784	13282	35053	111741	133027	1.20	1.25	2.15	3.15	0.84
34/7–23S	NOR	94014–115	3132.00	3132.00	CCP	Sh	22494	20844	16301	22566	5258	12962	47079	44145	1.43	1.43	2.09	2.12	1.07
34/7–23S	NOR	94014–122	3136.00	3136.00	CCP	Sh	6127	7290	6287	5820	2389	3095	13201	16419	1.22	1.20	2.15	2.25	0.80
34/7–23A	NOR	94014–130	3205.00	3205.00	CCP	Sst	42886	39471	29709	15806	7526	13528	29574	20146	1.04	1.15	0.69	0.51	1.47
34/7–23A	NOR	94014–140	3215.00	3215.00	CCP	Sst	42030	37120	26379	14057	5488	11336	26772	18520	1.05	1.17	0.64	0.50	1.45
34/7–23A	NOR	94014–150	3225.00	3225.00	CCP	Sst	37773	36247	27919	15100	7036	10886	27318	18970	1.02	1.15	0.72	0.52	1.44
34/7–23A	NOR	94014–160	3235.00	3235.00	CCP	Sst	35193	32431	23842	13043	5898	11267	22343	16439	1.06	1.16	0.63	0.51	1.36
34/7–23A	NOR	94014–170	3245.00	3245.00	CCP	Sst	44915	42270	31096	15669	7053	15145	29769	21304	1.03	1.12	0.66	0.50	1.40
34/7–23A	NOR	94014–173	3248.00	3248.00	CCP	Sh	55822	52033	31259	13724	6373	20719	34557	26536	0.98	0.99	0.62	0.51	1.30
34/7–23A	NOR	94014–183	3258.00	3258.00	CCP	Sh	29482	27064	16814	13911	4543	15231	39155	46650	1.11	1.21	1.33	1.72	0.84
34/7–23A	NOR	94014–190	3265.00	3265.00	CCP	Sh	10998	13081	10399	9871	4065	4862	18708	30209	1.14	1.13	1.70	2.31	0.62
34/7–23A	NOR	94014–201	3276.00	3276.00	CCP	Sh	29131	23893	19156	21826	7569	16510	60368	67662	1.24	1.22	2.07	2.83	0.89
34/7–23A	NOR	94014–202	3277.00	3277.00	CCP	Sh	33323	30489	28093	27816	8549	16315	65356	72033	1.28	1.38	1.96	2.36	0.91
34/7–23A	NOR	94014–209	3284.00	3284.00	CCP	Sh	38129	34181	23825	24726	8499	22707	81672	82350	1.17	1.20	2.14	2.41	0.99
34/7–23A	NOR	94014–214	3289.00	3289.00	CCP	Sh	37465	28487	19978	19535	8059	31722	80968	94393	1.20	1.25	2.16	3.31	0.86