

5.4 FORMATION MULTI-TEST (FMT) ANALYSIS

Formation pressure data were collected

Tool type	Western Atlas FMT
Gauge	Quartzdyne # 2174XA 152967
RT	25 m

One FMT run was performed, and 12 pretest measurements were taken, resulting in high quality pressure data. No fluid samples were taken in this well.

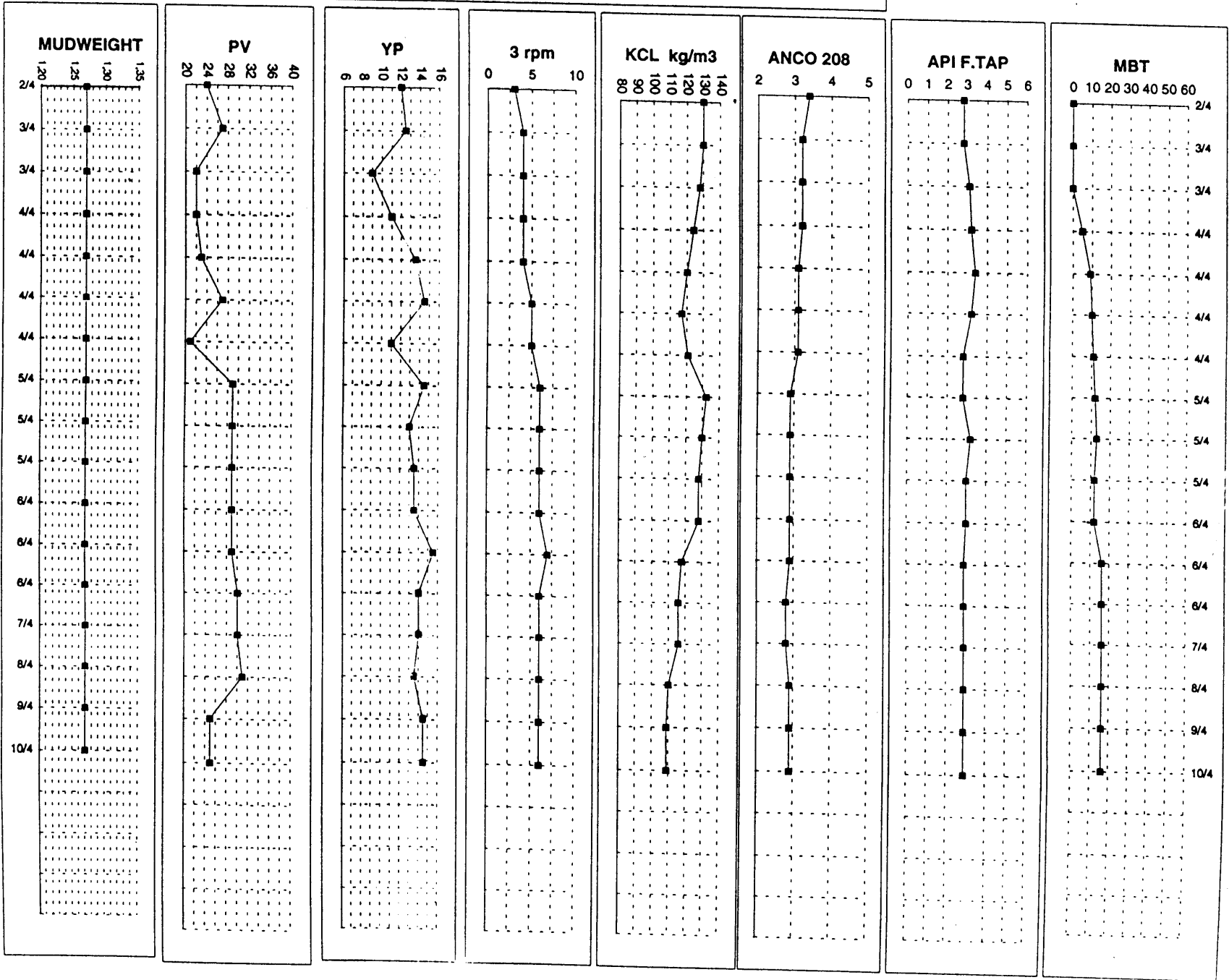
Mud Properties, daily record

Well: 25/9-1

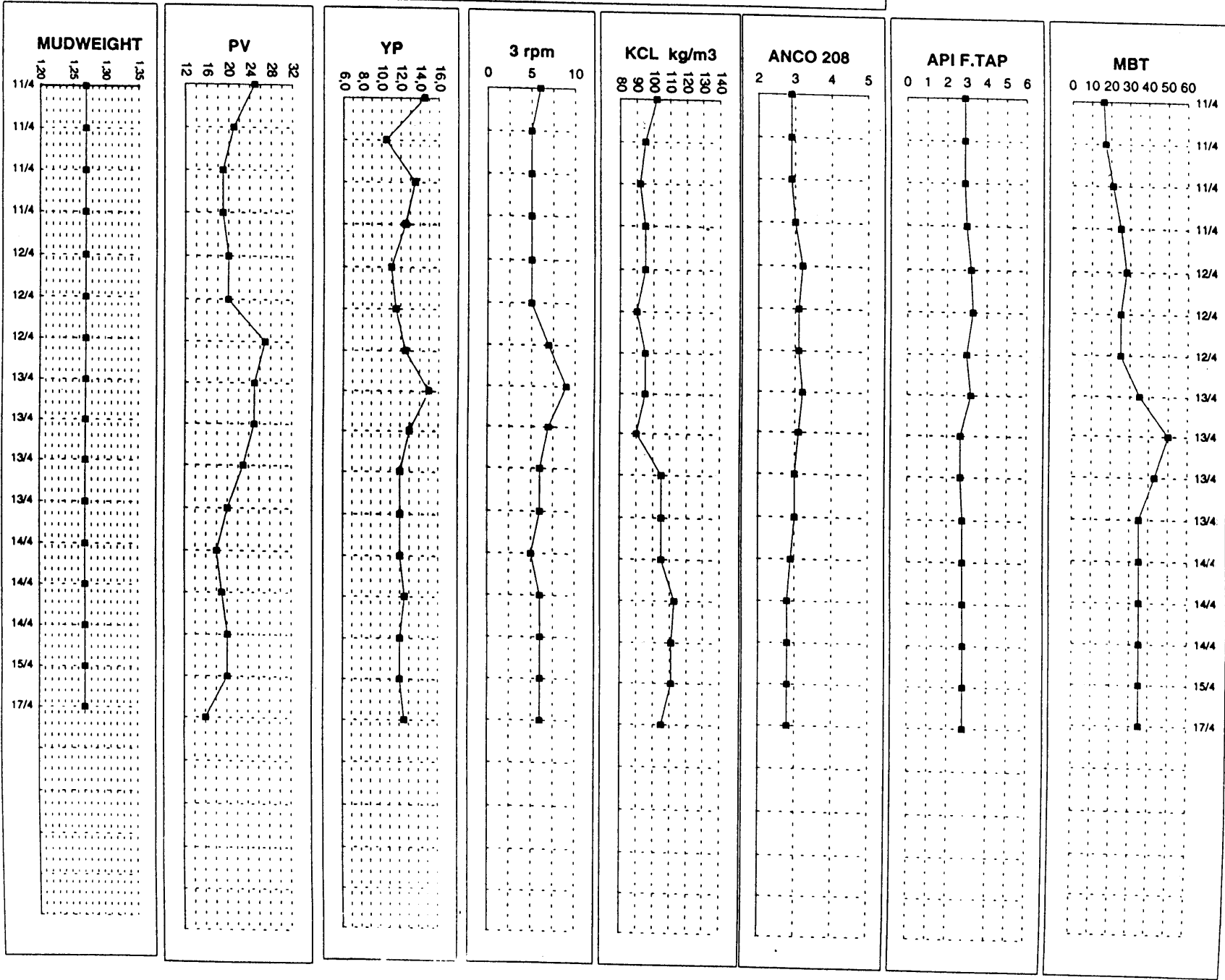
Operator: Amerada Hess

FSR no.	Date	Depth	M.W.	F.Vis	VG-meter readings @ 50 C						A.V.	P.V.	Y.P.	Gel 10s	Gel 10 m	pH	API	HTHP 110°C	Cl- *1000	Pf	Mf	Ca++	Solids corr	Oil vol%	Sand vol%	MBT	KCL	HGS	LGS	Anco 208	
.	.	m	sg	s/qt.	rpm	rpm	rpm	rpm	rpm	rpm	cP	cP	Pa	Pa	Pa	.	ml	ml	kg/m3	ml	ml	mg/l	vol%	vol%	vol%	kg/m3	kg/m3	kg/m3	kg/m3	kg/m3	
36 1/2" Section: Bentonite/Seawater Mud																															
1	28-03	323	1,08	100+																											
2	29-03	208	1,08	100+	59	47	43	26	23	22	29,5	12	17,5	n/a	n/a	10	n/c	n/c	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
3	30-03	434	1,08	100+																											
4	31-03	1004	1,08	100+																											
5	01-04	1056	1,20	100+																											
12 1/4" Section: Anco 2000 Mud																															
6	02-04	1056	1,27	98	72	48	37	23	5	3	36,0	24	12,0	4,0	4,0	8,5	2,6	n/c	65000	0,1	0,70	320	6,5	0	0,0	0	130	261	8	3,3	
7	03-04	1043	1,27	97	62	40	30	20	5	4	31,0	22	9,0	3,5	4,0	8,7	3,1	n/c	65000	0,3	0,80	380	6,5	0	0,0	0	128	243	19	3,2	
8	04-04	1705	1,27	84	64	43	35	24	6	5	32,0	21	11,0	5,0	7,0	8,6	2,8	n/c	64000	0,1	0,50	480	6,3	0	0,4	11	121	255	5	3,1	
9	05-04	1970	1,27	80	85	56	48	33	8	6	42,5	29	13,5	3,0	4,0	8,4	3,0	n/c	60000	0,0	0,60	640	7,6	0	0,9	12	128	211	67	2,9	
10	06-04	1970	1,27	98	89	60	52	36	9	7	44,5	29	15,5	3,5	5,0	8,4	2,9	n/c	60000	0,0	0,60	680	7,6	0	0,9	16	118	238	51	2,9	
11	07-04	1970	1,27	95	88	58	49	34	9	6	44,0	30	14,0	3,5	5,0	8,5	2,9	n/c	58000	0,0	0,60	680	8,2	0	0,9	16	116	194	93	2,8	
12	08-04	1972	1,27	95	89	58	48	34	9	6	44,5	31	13,5	3,5	5,0	8,5	2,9	n/c	58000	0,0	0,60	680	8,2	0	0,9	16	110	194	93	2,9	
13	09-04	1972	1,27	95	79	54	44	30	8	6	39,5	25	14,5	3,0	4,0	8,8	2,9	n/c	64000	0,0	0,80	780	7,7	0	0,8	16	109	196	79	2,9	
14	10-04	1972	1,27	96	79	54	44	30	8	6	39,5	25	14,5	3,0	4,0	8,7	2,9	n/c	64000	0,0	0,80	780	7,7	0	0,8	16	109	196	79	2,9	
8 1/2" Section: Anco 2000 Mud																															
15	11-04	2082	1,27	57	63	44	35	24	6	5	31,5	19	12,5	3,0	4,0	8,3	3,0	13,5	68000	0,0	0,80	640	7,6	0	0,9	25	95	189	81	3,0	
16	12-04	2183	1,27	72	79	52	49	39	10	7	39,5	27	12,5	5,0	8,0	8,8	3,0	13,0	68000	0,3	2,10	400	8,0	0	0,9	25	95	172	102	3,1	
17	13-04	2304	1,27	65	64	44	36	25	7	6	32,0	20	12,0	3,0	4,0	8,5	2,8	13,0	74000	0,0	1,10	240	7,7	0	0,5	35	105	193	82	3,0	
18	14-04	2526	1,27	53	64	44	36	25	7	6	32,0	20	12,0	4,0	3,0	8,2	2,8	13,0	72000	0,0	1,00	240	7,6	0	0,5	35	111	178	87	2,8	
19	15-04	2526	1,27	53	64	44	36	25	7	6	32,0	20	12,0	4,0	3,0	8,2	2,8	13,0	72000	0,0	1,00	240	7,6	0	0,5	35	111	178	87	2,8	

**AMERADA HESS 25/9-1, 12 1/4" SECTION
MUD PROPERTIES**



AMERADA HESS 25/9-1, 8 1/2" SECTION MUD PROPERTIES



Geochemical Report for Well NOCS 25/9-1

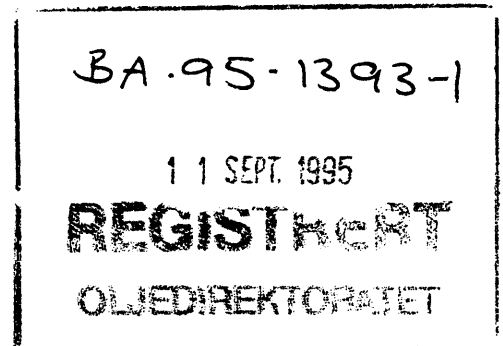
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Date :

July 1995



Chapter 1

INTRODUCTION

The well NOCS 25/9-1 was drilled (spudded in March 1995) by Amerada Hess Norge in the area south-east of the Heimdal field (block 25/4) and north-east of Balder field (blocks 25/10 and 25/11) (Figure 1). The water depth was 111 m and the rotary table (RT) was 136 m above the sea floor and 25 m above sea level. All depths are given relative to RT unless otherwise specified.

Samples, including canned cuttings samples, side-wall cores and conventional cores, were supplied by Amerada Hess together with a sample of the glycol additive to the drill-mud to Geolab Nor's laboratory in Trondheim. Also the stratigraphy of the well was provided by Amerada Hess, and these data are used in this report.

The analytical programme included both screening and follow-up analysis, where samples were selected for the latter programme in agreement with Knut Bakken, Amerada Hess.

The report is divided into chapters according to the applied analytical methods. The results are generally discussed in a (descending) stratigraphic context.

1.1 General Well Information

The samples were received as canned cuttings samples, side-wall cores and conventional core samples. The sample quality was generally good, and with sufficient amounts of sample material for analysis (both screening and follow-up analysis). Any superficial contamination was removed from the core and side-wall core samples. Use of a drilling mud with glycol additive might have caused some analytical problems, mainly for the extractable hydrocarbons in samples with low concentrations of in-situ hydrocarbons.

1.2 Analytical Program

The analytical program, including analysis type and number of samples per analysis type is presented below, together with respective figure numbers and table numbers:

<u>Analysis type</u>	<u>No of samples</u>	<u>Figures</u>	<u>Tables</u>
Headspace and occluded gas	88	2a-c	1a-c
$\delta^{13}\text{C}$ Headspace gas ($\text{C}_1\text{-C}_4$)	11	3a-b	2
Lithology description	95	4	3
TOC	67	4	3,4
Rock-Eval pyrolysis	67	5-9	4a-b
Thermal extraction GC (GHM, S_1)	26	10a-e	
Pyrolysis GC (GHM, S_2)	26	11a-g,12	5
Soxtec Extraction of organic matter	9		6a
Deasphalting	9		
MPLC separation	9		6b-d
Saturated hydrocarbon GC	9	13a-e	7
Aromatic hydrocarbon GC	9	14a-g	8a-b
Vitrinite reflectance	17	15	9
Visual kerogen microscopy	12	16	9,10
Isotope composition C_{15+} fractions	5	17,18	11a-b
GC - MS of saturated and aromatic HC	5	19a-h	12a-k
Glycol additive, quantitative GC	1		13

The well was drilled using glycol based drilling mud. The glycol additive composition has been analysed quantitatively using GC-analysis.

Table 1a: C1 to C7 hydrocarbons in HEADSPACE gas
(μl gas/kg rock)

Project: NOCS 25/9-1

Well: NOCS 25/9-1

Depth unit of measure: m * Indicated values in ml gas/kg rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 nC4
1090.00	2577	5	11	1	2	5	2596	19	0.7	0.50
1130.00	55	3	19	-	1	4	78	23	29.5	-
1170.00	16	3	28	-	-	3	47	31	66.0	-
1210.00	11	2	23	-	-	3	36	25	69.4	-
1250.00	1422	4	31	1	2	11	1460	38	2.6	0.50
1290.00	12512	7	29	-	1	3	12549	37	0.3	-
1330.00	1074	1	2	-	-	1	1077	3	0.3	-
1370.00	6099	6	16	1	2	20	6124	25	0.4	0.50
1410.00	2035	16	29	2	1	13	2083	48	2.3	2.00
1450.00	1124	15	17	5	2	19	1163	39	3.4	2.50
1490.00	763	18	13	6	4	24	804	41	5.1	1.50
1530.00	1464	22	21	9	6	32	1522	58	3.8	1.50
1610.00	143	8	15	5	3	18	174	31	17.8	1.67
1650.00	2023	34	25	12	6	31	2100	77	3.7	2.00
1690.00	3043	112	73	40	15	87	3283	240	7.3	2.67
1730.00	3979	123	109	53	25	67	4289	310	7.2	2.12
1770.00	2596	102	128	62	39	76	2927	331	11.3	1.59
1800.00	1564	33	42	17	20	37	1676	112	6.7	0.85
1830.00	1471	59	100	45	59	137	1734	263	15.2	0.76
1860.00	2891	142	267	101	155	450	3556	665	18.7	0.65
1890.00	1148	125	357	168	275	875	2073	925	44.6	0.61
1905.00	1667	187	504	232	391	1163	2981	1314	44.1	0.59
1920.00	2039	204	500	229	368	1116	3340	1301	39.0	0.62

Table 1a: C1 to C7 hydrocarbons in HEADSPACE gas
(µl gas/kg rock)

Project: NOCS 25/9-1

Well: NOCS 25/9-1

Depth unit of measure: m * Indicated values in ml gas/kg rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 nC4
1935.00	2609	286	647	279	475	1850	4296	1687	39.3	0.59
1950.00	17260	381	542	153	337	2525	18673	1413	7.6	0.45
1965.00	2005	166	299	121	193	753	2784	779	28.0	0.63
1980.00	351	15	27	9	16	89	418	67	16.0	0.56
1989.00	2250	67	56	14	14	37	2401	151	6.3	1.00
1998.00	839	35	33	8	11	23	926	87	9.4	0.73
2007.00	226	10	11	3	4	11	254	28	11.0	0.75
2016.00	534	24	37	7	18	85	620	86	13.9	0.39
2025.00	577	20	26	4	6	14	633	56	8.9	0.67
2034.00	463	20	23	5	6	13	517	54	10.4	0.83
2043.00	528	24	30	5	7	11	594	66	11.1	0.71
2052.00	136	7	6	1	2	4	152	16	10.5	0.50
2061.00	260	12	19	3	4	8	298	38	12.8	0.75
2070.00	404	32	35	6	7	8	484	80	16.5	0.86
2079.00	291	29	53	9	12	26	394	103	26.1	0.75
2088.00	239	16	22	5	6	13	288	49	17.0	0.83
2097.00	69	7	12	2	3	8	93	24	25.8	0.67
2106.00	144	9	14	3	3	10	173	29	16.8	1.00
2115.00	137	13	31	6	9	37	196	59	30.1	0.67
2124.00	191	28	63	14	19	36	315	124	39.4	0.74
2133.00	390	58	112	24	32	48	616	226	36.7	0.75
2142.00	766	117	167	39	46	55	1135	369	32.5	0.85
2151.00	1063	168	282	56	78	148	1647	584	35.5	0.72

Table 1a: C1 to C7 hydrocarbons in HEADSPACE gas
(µl gas/kg rock)

Project: NOCS 25/9-1

Well: NOCS 25/9-1

Depth unit of measure: m * Indicated values in ml gas/kg rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 --- nC4
2160.00	760	115	152	34	44	78	1105	345	31.2	0.77
2169.00	13535	2157	1819	344	383	454	18238	4703	25.8	0.90
2178.00	2464	296	251	49	57	59	3117	653	21.0	0.86
2187.00	36493	3746	2820	587	623	728	44269	7776	17.6	0.94
2196.00	8877	953	706	136	149	187	10821	1944	18.0	0.91
2205.00	9681	905	685	137	161	224	11569	1888	16.3	0.85
2214.00	319	63	69	14	18	91	483	164	34.0	0.78
2223.00	6217	937	1146	307	324	530	8931	2714	30.4	0.95
2232.00	2663	573	711	173	172	224	4292	1629	38.0	1.01
2241.00	6918	1470	2007	535	502	681	11432	4514	39.5	1.07
2250.00	5834	1317	1603	389	358	456	9501	3667	38.6	1.09
2259.00	6769	1449	1829	473	423	579	10943	4174	38.1	1.12
2268.00	6470	1413	1739	408	373	516	10403	3933	37.8	1.09
2277.00	7548	1636	2118	496	450	715	12248	4700	38.4	1.10
2286.00	7383	1757	2372	540	474	774	12526	5143	41.1	1.14
2295.00	595	203	302	69	61	116	1230	635	51.6	1.13
2304.00	435	103	130	29	26	51	723	288	39.8	1.12
2313.00	16085	1974	1446	266	190	287	19961	3876	19.4	1.40
2322.00	2125	290	237	46	36	83	2734	609	22.3	1.28
2331.00	4076	819	758	149	115	272	5917	1841	31.1	1.30
2340.00	3285	484	366	72	55	100	4262	977	22.9	1.31
2349.00	1391	245	202	41	35	70	1914	523	27.3	1.17
2358.00	190	35	42	10	11	29	288	98	34.0	0.91

Table 1a: C1 to C7 hydrocarbons in HEADSPACE gas
(μ l gas/kg rock)

Project: NOCS 25/9-1

Well: NOCS 25/9-1

Depth unit of measure: m

* Indicated values in ml gas/kg rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 --- nC4
2367.00	522	100	131	33	26	58	812	290	35.7	1.27
2376.00	2312	540	730	157	151	313	3890	1578	40.6	1.04
2385.00	842	151	154	29	27	69	1203	361	30.0	1.07
2394.00	364	110	147	30	27	62	678	314	46.3	1.11
2400.00	4430	702	623	104	95	148	5954	1524	25.6	1.09
2409.00	6255	926	785	115	103	151	8184	1929	23.6	1.12
2418.00	3109	497	450	72	70	120	4198	1089	25.9	1.03
2425.00	683	79	108	17	22	58	909	226	24.9	0.77
2427.00	729	122	150	25	27	53	1053	324	30.8	0.93
2436.00	388	67	96	18	21	38	590	202	34.2	0.86
2445.00	536	75	110	17	20	52	758	222	29.3	0.85
2454.00	490	58	127	18	27	69	720	230	31.9	0.67
2463.00	69	610	128	13	17	63	837	768	91.8	0.76
2472.00	58	554	70	12	14	32	708	650	91.8	0.86
2480.00	59	683	109	19	23	55	893	834	93.4	0.83
2490.00	661	78	82	14	16	32	851	190	22.3	0.88
2499.00	65	1050	129	23	26	50	1293	1228	95.0	0.88
2508.00	35	366	53	9	10	22	473	438	92.6	0.90
2517.00	517	44	51	8	9	21	629	112	17.8	0.89

Table 1b: C1 to C7 hydrocarbons in CUTTINGS gas
(µl gas/kg rock)

Project: NOCS 25/9-1

Well: NOCS 25/9-1

Depth unit of measure: m * Indicated values in ml gas/kg source rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 nC4
1090.00	11	1	1	-	-	2	13	2	15.4	-
1130.00	22	3	4	-	1	3	30	8	26.7	-
1170.00	15	3	4	-	-	2	22	7	31.8	-
1210.00	22	4	5	-	1	4	32	10	31.3	-
1250.00	27	5	7	1	2	11	42	15	35.7	0.50
1290.00	40	7	7	-	1	11	55	15	27.3	-
1330.00	25	3	4	-	-	2	32	7	21.9	-
1370.00	27	4	5	-	1	2	37	10	27.0	-
1410.00	10	2	2	-	-	2	14	4	28.6	-
1450.00	13	2	2	-	-	2	17	4	23.5	-
1490.00	15	3	2	-	-	4	20	5	25.0	-
1530.00	19	3	2	-	-	6	24	5	20.8	-
1610.00	13	2	2	-	-	5	17	4	23.5	-
1650.00	20	3	3	-	1	8	27	7	25.9	-
1690.00	25	4	4	1	1	25	35	10	28.6	1.00
1730.00	23	4	6	4	3	13	40	17	42.5	1.33
1770.00	23	4	5	2	3	30	37	14	37.8	0.67
1800.00	26	4	3	-	1	10	34	8	23.5	-
1830.00	24	4	4	1	3	28	36	12	33.3	0.33
1860.00	29	5	13	8	22	192	77	48	62.3	0.36
1890.00	28	6	13	8	26	298	81	53	65.4	0.31
1905.00	23	5	17	10	35	400	90	67	74.4	0.29
1920.00	28	6	18	10	35	430	97	69	71.1	0.29

Table 1b: C1 to C7 hydrocarbons in CUTTINGS gas
(µl gas/kg rock)

Project: NOCS 25/9-1

Well: NOCS 25/9-1

Depth unit of measure: m

* Indicated values in ml gas/kg source rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 --- nC4
1935.00	21	4	13	7	25	362	70	49	70.0	0.28
1950.00	37	6	9	5	15	447	72	35	48.6	0.33
1965.00	13	2	4	1	5	85	25	12	48.0	0.20
1980.00	10	2	1	-	1	20	14	4	28.6	-
1989.00	30	6	10	4	9	63	59	29	49.2	0.44
1998.00	31	6	8	2	7	40	54	23	42.6	0.29
2007.00	22	3	2	-	1	11	28	6	21.4	-
2016.00	16	2	2	-	1	6	21	5	23.8	-
2025.00	23	3	2	-	1	5	29	6	20.7	-
2034.00	33	6	5	1	3	11	48	15	31.3	0.33
2043.00	21	4	4	1	2	13	32	11	34.4	0.50
2052.00	25	4	3	-	1	8	33	8	24.2	-
2061.00	47	9	5	1	2	10	64	17	26.6	0.50
2070.00	43	9	9	2	5	32	68	25	36.8	0.40
2079.00	31	6	4	1	2	12	44	13	29.6	0.50
2088.00	19	4	2	1	1	6	27	8	29.6	1.00
2097.00	22	4	2	1	1	8	30	8	26.7	1.00
2106.00	29	6	4	1	2	15	42	13	31.0	0.50
2115.00	29	6	3	1	1	8	40	11	27.5	1.00
2124.00	22	4	3	1	2	14	32	10	31.3	0.50
2133.00	55	11	8	2	5	17	81	26	32.1	0.40
2142.00	44	11	20	7	15	52	97	53	54.6	0.47
2151.00	13	3	7	2	5	27	30	17	56.7	0.40

Table 1b: C1 to C7 hydrocarbons in CUTTINGS gas
(μ l gas/kg rock)

Project: NOCS 25/9-1

Well: NOCS 25/9-1

Depth unit of measure: m * Indicated values in ml gas/kg source rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 --- nC4
2160.00	26	7	19	7	15	78	74	48	64.9	0.47
2169.00	155	257	804	243	380	570	1839	1684	91.6	0.64
2178.00	752	581	1343	388	546	678	3610	2858	79.2	0.71
2187.00	1365	959	1734	460	661	824	5179	3814	73.6	0.70
2196.00	110	86	197	55	94	183	542	432	79.7	0.59
2205.00	205	143	284	76	131	261	839	634	75.6	0.58
2214.00	237	220	655	214	334	674	1660	1423	85.7	0.64
2223.00	73	44	194	87	141	412	539	466	86.5	0.62
2232.00	81	31	126	57	86	244	381	300	78.7	0.66
2241.00	79	25	107	52	79	259	342	263	76.9	0.66
2250.00	45	16	56	26	36	107	179	134	74.9	0.72
2259.00	81	33	126	51	75	214	366	285	77.9	0.68
2268.00	103	38	151	69	97	335	458	355	77.5	0.71
2277.00	93	27	89	41	61	240	311	218	70.1	0.67
2286.00	134	62	198	84	120	413	598	464	77.6	0.70
2295.00	126	26	58	24	39	172	273	147	53.9	0.62
2304.00	42	20	81	29	46	145	218	176	80.7	0.63
2313.00	375	392	900	212	234	494	2113	1738	82.3	0.91
2322.00	96	30	60	15	21	91	222	126	56.8	0.71
2331.00	92	41	112	34	43	164	322	230	71.4	0.79
2340.00	155	59	108	32	40	160	394	239	60.7	0.80
2349.00	138	30	45	13	20	80	246	108	43.9	0.65
2358.00	109	20	26	7	10	47	172	63	36.6	0.70

Table 1b: C1 to C7 hydrocarbons in CUTTINGS gas
(µl gas/kg rock)

Project: NOCS 25/9-1

Well: NOCS 25/9-1

Depth unit of measure: m

* Indicated values in ml gas/kg source rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 --- nC4
2367.00	133	21	20	5	8	48	187	54	28.9	0.63
2376.00	64	28	97	37	64	203	290	226	77.9	0.58
2385.00	498	517	1083	179	214	356	2491	1993	80.0	0.84
2394.00	100	46	97	20	31	87	294	194	66.0	0.65
2400.00	84	56	177	44	68	193	429	345	80.4	0.65
2409.00	172	140	274	54	78	197	718	546	76.0	0.69
2418.00	107	26	55	13	22	89	223	116	52.0	0.59
2425.00	33	6	7	2	6	31	54	21	38.9	0.33
2427.00	38	15	63	20	35	121	171	133	77.8	0.57
2436.00	27	5	9	4	7	43	52	25	48.1	0.57
2445.00	20	4	11	4	8	37	47	27	57.5	0.50
2454.00	40	6	4	1	2	19	53	13	24.5	0.50
2463.00	47	7	4	1	2	12	61	14	23.0	0.50
2472.00	16	3	7	3	6	29	35	19	54.3	0.50
2480.00	26	4	4	2	4	19	40	14	35.0	0.50
2490.00	24	5	14	7	13	57	63	39	61.9	0.54
2499.00	21	4	17	7	14	64	63	42	66.7	0.50
2508.00	24	4	8	4	8	40	48	24	50.0	0.50
2517.00	20	4	9	3	7	28	43	23	53.5	0.43

Table 1c: C1 to C7 hydrocarbons in HEADSPACE and CUTTINGS gas
(µl gas/kg rock)

Project: NOCS 25/9-1

Well: NOCS 25/9-1

Depth unit of measure: m * Indicated values in ml gas/kg source rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 --- nC4
1090.00	2588	6	12	1	2	7	2609	21	0.8	0.50
1130.00	77	6	23	-	2	7	108	31	28.7	-
1170.00	31	6	32	-	-	5	69	38	55.1	-
1210.00	33	6	28	-	1	7	68	35	51.5	-
1250.00	1449	9	38	2	4	22	1502	53	3.5	0.50
1290.00	12552	14	36	-	2	14	12604	52	0.4	-
1330.00	1099	4	6	-	-	3	1109	10	0.9	-
1370.00	6126	10	21	1	3	22	6161	35	0.6	0.33
1410.00	2045	18	31	2	1	15	2097	52	2.5	2.00
1450.00	1137	17	19	5	2	21	1180	43	3.6	2.50
1490.00	778	21	15	6	4	28	824	46	5.6	1.50
1530.00	1483	25	23	9	6	38	1546	63	4.1	1.50
1610.00	156	10	17	5	3	23	191	35	18.3	1.67
1650.00	2043	37	28	12	7	39	2127	84	4.0	1.71
1690.00	3068	116	77	41	16	112	3318	250	7.5	2.56
1730.00	4002	127	115	57	28	80	4329	327	7.6	2.04
1770.00	2619	106	133	64	42	106	2964	345	11.6	1.52
1800.00	1590	37	45	17	21	47	1710	120	7.0	0.81
1830.00	1495	63	104	46	62	165	1770	275	15.5	0.74
1860.00	2920	147	280	109	177	642	3633	713	19.6	0.62
1890.00	1176	131	370	176	301	1173	2154	978	45.4	0.58
1905.00	1690	192	521	242	426	1563	3071	1381	45.0	0.57

Table 1c: C1 to C7 hydrocarbons in HEADSPACE and CUTTINGS gas
(µl gas/kg rock)

Project: NOCS 25/9-1

Well: NOCS 25/9-1

Depth unit of measure: m

* Indicated values in ml gas/kg source rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 --- nC4
1920.00	2067	210	518	239	403	1546	3437	1370	39.9	0.59
1935.00	2630	290	660	286	500	2212	4366	1736	39.8	0.57
1950.00	17297	387	551	158	352	2972	18745	1448	7.7	0.45
1965.00	2018	168	303	122	198	838	2809	791	28.2	0.62
1980.00	361	17	28	9	17	109	432	71	16.4	0.53
1989.00	2280	73	66	18	23	100	2460	180	7.3	0.78
1998.00	870	41	41	10	18	63	980	110	11.2	0.56
2007.00	248	13	13	3	5	22	282	34	12.1	0.60
2016.00	550	26	39	7	19	91	641	91	14.2	0.37
2025.00	600	23	28	4	7	19	662	62	9.4	0.57
2034.00	496	26	28	6	9	24	565	69	12.2	0.67
2043.00	549	28	34	6	9	24	626	77	12.3	0.67
2052.00	161	11	9	1	3	12	185	24	13.0	0.33
2061.00	307	21	24	4	6	18	362	55	15.2	0.67
2070.00	447	41	44	8	12	40	552	105	19.0	0.67
2079.00	322	35	57	10	14	38	438	116	26.5	0.71
2088.00	258	20	24	6	7	19	315	57	18.1	0.86
2097.00	91	11	14	3	4	16	123	32	26.0	0.75
2106.00	173	15	18	4	5	25	215	42	19.5	0.80
2115.00	166	19	34	7	10	45	236	70	29.7	0.70
2124.00	213	32	66	15	21	50	347	134	38.6	0.71
2133.00	445	69	120	26	37	65	697	252	36.2	0.70

Table 1c: C1 to C7 hydrocarbons in HEADSPACE and CUTTINGS gas
(µl gas/kg rock)

Project: NOCS 25/9-1

Well: NOCS 25/9-1

Depth unit of measure: m

* Indicated values in ml gas/kg source rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 --- nC4
2142.00	810	128	187	46	61	107	1232	422	34.3	0.75
2151.00	1076	171	289	58	83	175	1677	601	35.8	0.70
2160.00	786	122	171	41	59	156	1179	393	33.3	0.69
2169.00	13690	2414	2623	587	763	1024	20077	6387	31.8	0.77
2178.00	3216	877	1594	437	603	737	6727	3511	52.2	0.72
2187.00	37858	4705	4554	1047	1284	1552	49448	11590	23.4	0.82
2196.00	8987	1039	903	191	243	370	11363	2376	20.9	0.79
2205.00	9886	1048	969	213	292	485	12408	2522	20.3	0.73
2214.00	556	283	724	228	352	765	2143	1587	74.1	0.65
2223.00	6290	981	1340	394	465	942	9470	3180	33.6	0.85
2232.00	2744	604	837	230	258	468	4673	1929	41.3	0.89
2241.00	6997	1495	2114	587	581	940	11774	4777	40.6	1.01
2250.00	5879	1333	1659	415	394	563	9680	3801	39.3	1.05
2259.00	6850	1482	1955	524	498	793	11309	4459	39.4	1.05
2268.00	6573	1451	1890	477	470	851	10861	4288	39.5	1.01
2277.00	7641	1663	2207	537	511	955	12559	4918	39.2	1.05
2286.00	7517	1819	2570	624	594	1187	13124	5607	42.7	1.05
2295.00	721	229	360	93	100	288	1503	782	52.0	0.93
2304.00	477	123	211	58	72	196	941	464	49.3	0.81
2313.00	16460	2366	2346	478	424	781	22074	5614	25.4	1.13
2322.00	2221	320	297	61	57	174	2956	735	24.9	1.07
2331.00	4168	860	870	183	158	436	6239	2071	33.2	1.16

Table 1c: C1 to C7 hydrocarbons in HEADSPACE and CUTTINGS gas
(µl gas/kg rock)

Project: NOCS 25/9-1

Well: NOCS 25/9-1

Depth unit of measure: m * Indicated values in ml gas/kg source rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 --- nC4
2340.00	3440	543	474	104	95	260	4656	1216	26.1	1.09
2349.00	1529	275	247	54	55	150	2160	631	29.2	0.98
2358.00	299	55	68	17	21	76	460	161	35.0	0.81
2367.00	655	121	151	38	34	106	999	344	34.4	1.12
2376.00	2376	568	827	194	215	516	4180	1804	43.2	0.90
2385.00	1340	668	1237	208	241	425	3694	2354	63.7	0.86
2394.00	464	156	244	50	58	149	972	508	52.3	0.86
2400.00	4514	758	800	148	163	341	6383	1869	29.3	0.91
2409.00	6427	1066	1059	169	181	348	8902	2475	27.8	0.93
2418.00	3216	523	505	85	92	209	4421	1205	27.3	0.92
2425.00	716	85	115	19	28	89	963	247	25.7	0.68
2427.00	767	137	213	45	62	174	1224	457	37.3	0.73
2436.00	415	72	105	22	28	81	642	227	35.4	0.79
2445.00	556	79	121	21	28	89	805	249	30.9	0.75
2454.00	530	64	131	19	29	88	773	243	31.4	0.66
2463.00	116	617	132	14	19	75	898	782	87.1	0.74
2472.00	74	557	77	15	20	61	743	669	90.0	0.75
2480.00	85	687	113	21	27	74	933	848	90.9	0.78
2490.00	685	83	96	21	29	89	914	229	25.1	0.72
2499.00	86	1054	146	30	40	114	1356	1270	93.7	0.75
2508.00	59	370	61	13	18	62	521	462	88.7	0.72
2517.00	537	48	60	11	16	49	672	135	20.1	0.69

Table 2: Isotope GC Analysis of Headspace Gas for well NOCS 25/9-1

Depth unit of measure: m

Depth	Typ	C1	C2	C3	iC4	nC4	C5+	CO2	D
1250.00	cut	-86.5	-	-	-	-	-	-25.5	-
1290.00	cut	-81.2	-	-	-	-	-	-25.7	-
1370.00	cut	-78.9	-	-	-	-	-	-37.6	-
2016.00	cut	-64.9	-	-	-	-	-	-12.8	-
2034.00	cut	-62.1	-40.8	-36.4	-	-	-	-13.8	-
2169.00	cut	-56.3	-39.2	-35.6	-34.9	-36.7	-	-24.9	-
2178.00	cut	-51.9	-37.7	-34.8	-33.7	-35.9	-	-	-
2187.00	cut	-55.6	-38.4	-34.9	-33.4	-35.4	-	-36.5	-
2196.00	cut	-52.8	-38.4	-35.1	-34.4	-36.8	-	-	-
2205.00	cut	-52.8	-38.6	-35.5	-34.7	-36.0	-	-33.9	-
2304.00	cut	-54.4	-36.6	-32.7	-31.5	-33.4	-	-29.9	-

Table 3 : Lithology description for well NOCS 25/9-1

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
1090.00						0008
			95	Sltst	: ol gy to lt gy to m gy, cly, glauc, mic	0008-1L
			5	S/Sst	: gy w, f	0008-2L
				tr Cont	: prp	0008-3L
1130.00						0009
			100	Sltst	: ol gy to lt gy to m gy, cly, glauc, mic	0009-1L
				tr Cont	: prp	0009-2L
1170.00						0010
			100	Sh/Clst	: ol gy to lt gy to m gy, slt, carb, glauc	0010-1L
				tr Sltst	: m gy to ol gy, glauc, cly	0010-2L
1210.00						0011
			100	Sh/Clst	: lt brn gy to lt gy to m gy, slt, carb	0011-1L
				tr Sltst	: m gy to ol gy, glauc, cly	0011-2L
1250.00						0012
			100	Sh/Clst	: lt brn gy to lt gy to m gy, slt, carb	0012-1L
				tr Sltst	: m gy to ol gy, glauc, cly	0012-2L

Table 3 : Lithology description for well NOCS 25/9-1

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
1290.00						0013
			85	Sh/Clst: lt brn gy to lt gy to m gy, slt, carb		0013-1L
			15	Sltst : lt gy to or gy, carb, cly		0013-2L
1330.00						0014
			100	S/Sst : w to gy w, f, l		0014-1L
			tr	Sh/Clst: m gy to ol gy, slt		0014-2L
1370.00						0015
			70	S/Sst : w to gy w, f, l		0015-1L
			30	Sh/Clst: m gy to ol gy, slt		0015-2L
1410.00						0016
			100	Sh/Clst: m gy to ol gy to lt brn gy, slt		0016-1L
1450.00						0017
			100	Sh/Clst: m gy to ol gy to lt brn gy, pyr, slt		0017-1L
1490.00						0018
			100	Sh/Clst: m gy to ol gy to lt brn gy, pyr, slt		0018-1L
1530.00						0019
			100	Sh/Clst: m gy to ol gy to lt brn gy, pyr		0019-1L
			tr	Ca : w, f		0019-2L

Table 3 : Lithology description for well NOCS 25/9-1

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
1610.00						0020
			100	Sh/Clst: m gy to ol gy to lt brn gy, pyr tr Ca : w, f		0020-1L 0020-2L
1650.00						0021
			100	Sh/Clst: m gy to ol gy to lt brn gy, pyr tr Ca : w, f		0021-1L 0021-2L
1690.00						0022
			100	Sh/Clst: m gy to ol gy to lt brn gy, pyr tr Ca : w, f		0022-1L 0022-2L
1730.00						0023
			100	Sh/Clst: m gy to ol gy, pyr, slt tr Ca : w, f		0023-1L 0023-2L
1770.00						0024
	0.57		90	Sh/Clst: m gy to brn gy, pyr, slt		0024-1L
			10	Sh/Clst: lt gy, slt		0024-2L
				tr Ca : gy w, f		0024-3L
1800.00						0025
			55	Sh/Clst: gy brn to brn gy, pyr, slt		0025-1L
			45	Sh/Clst: lt gy, slt		0025-2L
				tr Ca : gy w, f		0025-3L

Table 3 : Lithology description for well NOCS 25/9-1

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	Lithology description			
1830.00						0026
	0.48	60	Sh/Clst: lt gy to red brn to gn gy, slt			0026-1L
		30	Sh/Clst: brn gy to gy brn, slt			0026-2L
		10	Volc : w to gy w, pyr			0026-3L
1860.00						0027
		70	Sh/Clst: lt gy to lt ol gy, slt			0027-1L
		30	Sh/Clst: m gy, slt			0027-2L
		tr	Volc : w to gy w, pyr			0027-3L
1890.00						0028
		50	Sh/Clst: lt gy to lt ol gy, slt			0028-1L
		50	Sh/Clst: m gy, slt			0028-2L
1905.00						0029
	1.24	100	Sh/Clst: lt gy to m gy to lt ol gy, slt			0029-1L
1920.00						0030
	1.33	100	Sh/Clst: lt gy to m gy to lt ol gy, slt			0030-1L
		tr	Slst : lt gy, cly			0030-2L
1935.00						0031
	1.19	100	Sh/Clst: lt gy to m gy to lt ol gy, slt			0031-1L
		tr	Slst : lt gy, cly			0031-2L

Table 3 : Lithology description for well NOCS 25/9-1

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
1950.00						0032
			100	Sh/Clst: lt gy to m gy to lt ol gy, slt		0032-1L
1965.00						0033
	1.01		100	Sh/Clst: m gy to lt ol gy to lt gy, slt		0033-1L
1980.00						0034
	0.35		100	Sh/Clst: lt gy to lt ol gy to m gy, slt		0034-1L
				tr Cont : prp		0034-2L
1989.00						0035
	0.43		90	Sh/Clst: lt gy to lt gn gy to m gy, slt		0035-1L
			10	Sltst : lt gy		0035-2L
				tr Cont : prp		0035-3L
1998.00						0036
	0.36		85	Sh/Clst: lt gy to lt gn gy to m gy, slt		0036-1L
			10	Sltst : lt gy		0036-2L
			5	Sh/Clst: brn gy, slt		0036-3L
				tr Cont : prp		0036-4L
2007.00						0037
	0.24		95	Sh/Clst: pl brn to lt gn gy to lt ol gy, slt		0037-1L
			5	Sltst : lt gy, cly		0037-2L
				tr Cont : prp		0037-3L

Table 3 : Lithology description for well NOCS 25/9-1

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2016.00						0038
	0.18	95	Sh/Clst:	pl brn to lt gn gy to lt brn gy,		0038-1L
				slt		
		5	Sltst	: lt gy, cly		0038-2L
			tr Cont	: prp		0038-3L
2025.00						0039
	0.09	100	Sh/Clst:	pl brn to lt gn gy to lt brn gy,		0039-1L
				slt		
			tr Sltst	: lt gy, cly		0039-2L
			tr Cont	: prp		0039-3L
2034.00						0040
	0.37	100	Sh/Clst:	m gy to lt gy to brn gy, slt		0040-1L
			tr Sltst	: lt gy, cly		0040-2L
			tr Cont	: prp		0040-3L
2043.00						0041
	0.38	85	Sh/Clst:	m gy to lt gy to brn gy, slt		0041-1L
		10	Ca	: gy w to w, chk		0041-2L
		5	Sltst	: lt brn gy to lt gy		0041-3L
2052.00						0042
	0.08	40	Sh/Clst:	m gy to lt gy to brn gy, slt		0042-1L
		40	Ca	: gy w to w, chk		0042-2L
		10	Sltst	: lt brn gy to lt gy		0042-3L
		10	Cont	: prp		0042-4L

Table 3 : Lithology description for well NOCS 25/9-1

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2061.00						0043
			60	Ca	: gy w to w, glauc, chk	0043-1L
			40	Sh/Clst:	m gy to lt gy, slt	0043-2L
				tr Cont	: prp	0043-3L
2070.00						0044
	0.54	100		Sh/Clst:	m gy to ol gy to lt gy, pyr, slt	0044-1L
				tr Ca	: w to gy w, chk	0044-2L
				tr Cont	: prp	0044-3L
2079.00						0045
	0.12		50	Sh/Clst:	m gy to ol gy to lt gy, pyr, slt	0045-1L
			50	Ca	: w to gy w, chk	0045-2L
				tr Cont	: prp	0045-3L
2088.00						0046
	0.11		70	Ca	: w to gy w, chk	0046-2L
			30	Sh/Clst:	m gy to ol gy to lt gy, pyr, slt	0046-1L
				tr Cont	: prp	0046-3L
2097.00						0047
	0.09		65	Ca	: w to gy w, chk	0047-2L
			30	Sh/Clst:	m gy to ol gy to lt gy, pyr, slt	0047-1L
			5	Cont	: prp	0047-3L
2106.00						0048
	0.09		85	Ca	: w to gy w, chk	0048-2L
			15	Sh/Clst:	m gy to ol gy to lt gy, pyr, slt	0048-1L
				tr Cont	: prp	0048-3L

Table 3 : Lithology description for well NOCS 25/9-1

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2115.00						0049
	0.15	85	Ca	: w to gy w, chk, glauc		0049-2L
		15	Sh/Clst:	m gy to ol gy to pl brn, slt		0049-1L
2124.00						0050
	0.30	80	Ca	: lt gy to gy w, cly		0050-1L
		20	Sh/Clst:	lt gy to brn gy, slt		0050-2L
			tr Cont	: prp		0050-3L
2133.00						0051
	0.35	80	Sh/Clst:	lt gy to brn gy, calc, slt		0051-1L
		20	Sh/Clst:	m gy to drk gy to brn gy, slt		0051-2L
2142.00						0052
	0.59	65	Ca	: lt gy to gy w, calc, pyr, slt		0052-1L
		35	Sh/Clst:	m gy to drk gy to brn gy, slt		0052-2L
2151.00						0053
	0.68	55	Ca	: lt gy to gy w, calc, pyr, slt		0053-1L
		35	Sh/Clst:	m gy to drk gy to brn gy, slt		0053-2L
		10	Cont	: prp		0053-3L
2160.00						0054
	0.74	50	Sh/Clst:	lt gy to m gy, calc, slt		0054-1L
		40	Ca	: w to gy w, chk		0054-2L
		10	Sh/Clst:	drk brn gy to brn gy, slt		0054-3L
			tr Cont	: prp, ns		0054-4L

Table 3 : Lithology description for well NOCS 25/9-1

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2169.00						0055
	6.15		50 Ca	: w to gy w, chk		0055-1L
			35 Sh/Clst	: drk gy to m gy, slt		0055-2L
			15 Sh/Clst	: lt gy		0055-3L
			tr Cont	: prp		0055-4L
2178.00						0056
	5.84		70 Sh/Clst	: drk gy to drk brn gy, slt		0056-1L
			15 Sh/Clst	: lt gy		0056-2L
			10 Ca	: w to gy w, chk		0056-3L
			5 Cont	: prp		0056-4L
2178.50	swc					0004
	0.94	100	Sh/Clst	: m gy, slt		0004-1L
2180.00	swc					0005
	0.82	100	S/Sst	: gy w to lt ol y, f, crs		0005-1L
2181.50	swc					0006
	1.63	100	Sh/Clst	: gy brn to drk brn, sft, dd		0006-1L
2182.50	swc					0007
	2.36	100	Sh/Clst	: m gy to brn gy, slt		0007-1L
2183.00	ccp					0001
	0.91	100	S/Sst	: lt gy to m gy to drk gy, f, crs, cly		0001-1L

Table 3 : Lithology description for well NOCS 25/9-1

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2187.00						0057
	15.75	55	Sh/Clst:	drk gy to gy blk, slt		0057-1L
		30	S/Sst	: w to gy w, f, calc		0057-2L
		15	Sh/Clst:	m gy to lt gy		0057-3L
			tr Ca	: w, chk		0057-4L
			tr Cont	: prp		0057-5L
2187.20	ccp					0002
	18.93	100	Coal	: blk, s, lam		0002-1L
2193.54	ccp					0003
	8.28	100	Sh/Clst:	brn gy to drk gy, slt, carb, mic		0003-1L
2196.00						0058
	3.18	75	Sh/Clst:	brn gy to ol gy to m gy, slt		0058-1L
		25	Sh/Clst:	m gy to lt gy		0058-2L
			tr Ca	: w, chk		0058-3L
			tr Cont	: prp		0058-4L
2205.00						0059
	2.17	80	Sh/Clst:	brn gy to m gy to lt gy, slt		0059-1L
		10	Sh/Clst:	gy blk, slt		0059-2L
		10	Sltst	: lt gy to lt brn gy, s		0059-3L
			tr Cont	: prp		0059-4L
2214.00						0060
	0.35	40	S/Sst	: w to gy w, cem, calc		0060-1L
		40	Sh/Clst:	ol gy to brn gy to gn gy, slt		0060-2L
		20	Sh/Clst:	drk gy to gy blk, slt		0060-3L
			tr Cont	: prp		0060-4L

Table 3 : Lithology description for well NOCS 25/9-1

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2223.00						0061
	0.30		55	S/Sst : w to gy w, cem, calc		0061-1L
			30	Sh/Clst: ol gy to brn gy to gn gy, slt		0061-2L
			10	Sh/Clst: drk gy to gy blk, slt		0061-3L
			5	Cont : prp		0061-4L
2232.00						0062
	0.30		50	S/Sst : w to gy w, cem, calc, f		0062-1L
			40	Sh/Clst: lt gy to brn gy to m gy, slt		0062-2L
			10	Cont : prp		0062-3L
2241.00						0063
			50	S/Sst : w to gy w, calc, cem, f		0063-1L
			35	Sh/Clst: lt gy to m gy to lt ol gy, slt		0063-2L
			15	Cont : prp		0063-3L
2250.00						0064
	0.41		45	S/Sst : w to gy w, calc, cem, f		0064-1L
	0.27		40	Sh/Clst: lt gy to m gy to lt ol gy, slt		0064-2L
			15	Cont : prp		0064-3L
2259.00						0065
			45	S/Sst : w to gy w, calc, cem, f		0065-1L
			35	Sh/Clst: lt gy to m gy to lt ol gy, slt		0065-2L
			20	Cont : prp		0065-3L
2268.00						0066
	0.30		45	S/Sst : w to gy w, calc, cem, f		0066-1L
			35	Sh/Clst: lt gy to m gy to lt ol gy, slt		0066-2L
			20	Cont : prp		0066-3L

Table 3 : Lithology description for well NOCS 25/9-1

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2277.00						0067
				50 S/Sst : w to gy w, calc, cem, f		0067-1L
				30 Sh/Clst: m gy to brn gy to gn gy, slt		0067-2L
				20 Cont : prp		0067-3L
2286.00						0068
	0.89			50 S/Sst : w to gy w to lt gy, calc, cem, f		0068-1L
				40 Sh/Clst: m gy to brn gy to pl brn, slt		0068-2L
				10 Cont : prp		0068-3L
2295.00						0069
	0.36			60 S/Sst : w to gy w to lt gy, calc, cem, f,		0069-1L
				crs, l		
				35 Sh/Clst: m gy to brn gy to lt gn gy, slt		0069-2L
				5 Cont : prp		0069-3L
2304.00						0070
	0.08			70 S/Sst : w to gy w to lt gy, calc, cem, f,		0070-1L
				crs, l		
	0.99			25 Sh/Clst: m gy to ol gy, slt		0070-2L
				5 Cont : prp		0070-3L
2313.00						0071
				65 S/Sst : w to gy w to lt gy, calc, cem, f,		0071-1L
				crs, l		
				25 Sh/Clst: m gy to ol gy, slt		0071-2L
	45.12			10 Coal : blk		0071-3L

Table 3 : Lithology description for well NOCS 25/9-1

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2322.00						0072
			80	S/Sst : w to gy w to lt gy, calc, cem, f, crs, l		0072-1L
			10	Sh/Clst: m gy to ol gy, slt		0072-2L
			10	Cont : prp		0072-3L
			tr	Coal : blk		0072-4L
2331.00						0073
	0.34		65	S/Sst : w to gy w, f, crs, l		0073-1L
	0.96		25	Sh/Clst: m gy to ol gy to brn gy, slt		0073-2L
			10	Cont : prp		0073-3L
2340.00						0074
			80	S/Sst : w to gy w, f, crs, l		0074-1L
			10	Sh/Clst: m gy to ol gy to brn gy, slt		0074-2L
	41.00		10	Coal : blk		0074-3L
2349.00						0075
	0.13		90	S/Sst : w to gy w, f, crs, l		0075-1L
			5	Sh/Clst: m gy to ol gy to brn gy, slt		0075-2L
			5	Cont : prp		0075-3L
			tr	Coal : blk		0075-4L
2358.00						0076
			70	S/Sst : w to gy w, f, crs, l		0076-1L
			15	Sh/Clst: m gy to ol gy to brn gy, slt		0076-2L
			10	Cont : prp		0076-3L
			5	Coal : blk		0076-4L

Table 3 : Lithology description for well NOCS 25/9-1

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2367.00						0077
	0.11	65	S/Sst	: w to gy w, f, crs, l		0077-1L
		15	Sh/Clst	: m gy to ol gy to brn gy, slt		0077-2L
		15	Cont	: prp		0077-3L
		5	Coal	: blk		0077-4L
2376.00						0078
		70	Sh/Clst	: lt gy to m gy to lt ol gy to gn gy, slt		0078-1L
		20	Sltst	: gy w to lt gy, s		0078-2L
		10	S/Sst	: w, f, crs, l		0078-3L
		tr	Cont	: prp		0078-4L
2385.00						0079
	21.99	40	Sh/Clst	: brn blk to gy blk, slt		0079-1L
		30	Sh/Clst	: brn gy to ol gy, slt		0079-2L
		20	S/Sst	: w, f, crs, l		0079-3L
		10	Cont	: prp		0079-4L
2394.00						0080
		70	S/Sst	: w, f, crs, l		0080-1L
		15	Sh/Clst	: brn blk to gy blk, slt		0080-2L
		15	Sh/Clst	: ol gy to gn gy to m gy, slt		0080-3L
		tr	Cont	: prp		0080-4L
2400.00						0081
	0.11	60	S/Sst	: w, f, crs, l, cem, calc		0081-1L
		20	Sh/Clst	: brn blk to gy blk, slt		0081-2L
		20	Sh/Clst	: ol gy to gn gy to m gy, slt		0081-3L
		tr	Cont	: prp		0081-4L

Table 3 : Lithology description for well NOCS 25/9-1

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2409.00						0082
				60 S/Sst : w, f, crs, l, cem, calc		0082-1L
				25 Sh/Clst: ol gy to gn gy to m gy, slt		0082-3L
				15 Sh/Clst: brn blk to gy blk, slt		0082-2L
				tr Cont : prp		0082-4L
2418.00						0083
	0.47			50 Sh/Clst: ol gy to gn gy to m gy, slt		0083-1L
				35 S/Sst : w to gy w, f, crs, l		0083-2L
				15 Sh/Clst: gy blk to brn blk, slt		0083-3L
				tr Cont : prp		0083-4L
2427.00						0085
	0.34			65 Sh/Clst: pl brn to gy brn to lt gn gy, fe, slt		0085-1L
				35 Sh/Clst: lt gy to m gy, slt		0085-2L
				tr S/Sst : w, crs, l		0085-3L
				tr Cont : prp		0085-4L
2436.00						0086
				60 Sh/Clst: pl brn to gy brn to lt gn gy, fe, slt		0086-1L
				25 Sh/Clst: lt gy to m gy, slt		0086-2L
				10 Ca : w, chk		0086-3L
				5 S/Sst : gy w, f, crs, l		0086-4L
2445.00						0087
	0.29			70 Sh/Clst: pl brn to gy brn to lt gn gy, fe, slt		0087-1L
				20 Sh/Clst: lt gy to m gy, slt		0087-2L
				5 Ca : w, chk		0087-3L
				5 S/Sst : gy w, f, crs, l		0087-4L

Table 3 : Lithology description for well NOCS 25/9-1

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2454.00						0088
			70	Sh/Clst: pl brn to gy brn to lt gn gy, fe, slt		0088-1L
			20	Sh/Clst: lt gy to m gy, slt		0088-2L
			5	Ca : w, chk		0088-3L
			5	S/Sst : gy w, f, crs, l		0088-4L
			tr	Cont : prp		0088-5L
2463.00						0089
	0.17		70	Sh/Clst: pl brn to gy brn to lt gn gy, fe, slt		0089-1L
			25	Sh/Clst: lt gy to m gy, slt		0089-2L
			5	Ca : w, chk		0089-3L
			tr	S/Sst : gy w, f, crs, l		0089-4L
			tr	Cont : prp		0089-5L
2472.00						0090
			45	Sh/Clst: pl brn to gy brn to lt gn gy, fe, slt		0090-1L
			25	Sh/Clst: lt gy to m gy, slt		0090-2L
			25	S/Sst : gy w, f, crs, l		0090-4L
			5	Ca : w, chk		0090-3L
			tr	Cont : prp		0090-5L
2480.00						0091
	0.35		55	Sh/Clst: pl brn to gy brn to lt gn gy, fe, slt		0091-1L
			25	Sh/Clst: lt gy to m gy, slt		0091-2L
			10	Ca : w, chk		0091-3L
			10	S/Sst : gy w, f, crs, l		0091-4L
			tr	Cont : prp		0091-5L

Table 3 : Lithology description for well NOCS 25/9-1

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2490.00						0096
				65 Sh/Clst: pl brn to gy brn, slt, fe		0096-1L
				25 S/Sst : w to gy w, f, crs, l		0096-2L
				10 Sh/Clst: lt gy to m gy, slt		0096-3L
				tr Cont : prp		0096-4L
2499.00						0097
				75 Sh/Clst: pl brn to gy brn, slt, fe		0097-1L
				25 Sh/Clst: lt gy to m gy, slt		0097-2L
				tr Cont : prp		0097-3L
2508.00						0098
	0.10			50 S/Sst : w to gy w, f, crs, l		0098-1L
				35 Sh/Clst: pl brn to gy brn, slt, fe		0098-2L
				15 Sh/Clst: lt gy to m gy, slt		0098-3L
				tr Cont : prp		0098-4L
2517.00						0095
	0.35			65 Sh/Clst: pl brn to gy brn, slt, fe		0095-1L
				20 Sh/Clst: lt gy to m gy, slt		0095-2L
				10 S/Sst : w to gy w, f, crs, l		0095-3L
				5 Cont : prp		0095-4L