Table 11d: Raw sterane data (peak height) m/z 217 SIR for Well NOCS 9/2-7S

Depth unit of measure: m

Depth	Lithology	21a	22a	27dßS	27dßR	27daR	27daS	28dßS	28dßR	28daR*	Sample
		29dßS*	28daS*	27aaR	29dßR	29daR	28aaS	29daS*	28ßßS		
		28aaR	29aaS	29ßßR	29ßßS	29aaR					
4092.00	S/Sst	2687.2	815.5	1021.7	826.2	317.2	369.1	451.8	278.9	603.5	0055-3
		979.1	1046.2	1924.8	532.7	208.9	338.3	669.1	1046.4		
		336.5	682.2	1475.6	1234.1	898.3					
4095.00	Sh/Clst	5549.7	2400.0	1411.6	1170.2	415.1	508.5	1228.6	588.2	828.8	0056-2
		2714.7	2002.2	3354.0	2477.7	621.2	857.9	1097.0	2293.6		
		721.0	2288.9	3327.2	2689.6	2960.2					

* 28daR coel with 27aaS, 29dßS coel with 27ßßR, 28daS coel with 27ßßS, 29daS coel with 28ßßR

Table 11e: Raw sterane data (peak height) m/z 218 SIR for Well NOCS 9/2-7S

Depth unit of measure: m

Depth	Lithology	27ßßR	27ßßS	28ßßR	28ßßS	29ßßR	29ßßS	30ßßR	30ßßS	Sample
3690.00	bulk	7296.1	7194.3	4820.5	5639.1	6977.2	6422.8	884.9	898.0	0018-0
3885.19	S/Sst	64668.6	65701.9	45195.5	55993.9	51907.7	53278.5	11125.0	11876.8	0003-1
3933.00	S/Sst	18265.5	18097.9	13117.9	17539.4	15897.1	16022.6	3408.7	3665.6	0030-1
3984.00	S/Sst	4027.7	4042.5	2759.4	3495.5	3093.1	3067.7	448.2	485.9	0035-1
4080.00	S/Sst	162.8	190.6	89.1	163.2	112.2	102.9	12.8	14.4	0052-3
4092.00	S/Sst	1351.1	1520.8	1035.8	1499.3	2111.8	1903.3	154.8	143.2	0055-3
4095.00	Sh/Clst	1282.5	1803.9	1581.8	2989.7	4718.4	4186.2	100.8	82.6	0056-2

Table 11f: Raw triterpane data (peak height) m/z 177 SIR for Well NOCS 9/2-7S

Depth unit of measure: m

Depth	Lithology	25nor28aß	25nor30aß	Sample
3690.00	bulk	770.3	0.0	0018-0
3885.19	S/Sst	0.0	0.0	0003-1
3933.00	S/Sst	1145.9	0.0	0030-1
3984.00	S/Sst	487.3	0.0	0035-1
4080.00	S/Sst	36.5	0.0	0052-3
4092.00	S/Sst	177.3	0.0	0055-3
4095.00	Sh/Clst	0.0	0.0	0056-2

Table 11g: Amount of triterpanes (ppb) for Well NOCS 9/2-7S

Depth unit of measure: m

Depth	Lithology	23/3	24/3	25/3	24/4	26/3	27Ts	27Tm	28aß	25nor30aß	Sample
		29aß	29Ts	30d	29ßa	30O	30aß	30ßa	30G	31aßS	
		31aßR	32aßS	32aßR	33aßS	33aßR	34aßS	34aßR	35aßS	35aßR	
3690.00	bulk	24406.0	13369.4	8008.6	25490.4	6194.6	38810.6	40313.3	6832.6	0.0	0018-0
		123544.8	50146.1	9200.1	14842.6	0.0	207448.8	21250.9	6417.4	76786.6	
		51353.9	41604.5	27436.4	29815.4	18949.4	19320.8	11253.8	14172.1	8684.0	
3885.19	S/Sst	24781.1	14443.9	7821.6	23998.9	6469.3	69023.0	57762.1	0.0	0.0	0003-1
		225678.7	113910.1	32586.9	22197.1	0.0	561754.3	54601.8	0.0	211112.1	
		131631.9	118361.7	81193.2	99001.6	64174.4	56216.5	35141.7	40711.5	23695.6	
3933.00	S/Sst	22169.8	12786.0	6292.9	15923.3	5286.1	50778.0	47334.3	0.0	0.0	0030-1
		190038.7	95172.1	26638.6	22932.6	0.0	465612.2	46166.4	0.0	184642.1	
		117700.6	104401.4	75625.3	88238.1	57434.0	50991.4	32088.0	37951.1	21849.2	
3984.00	S/Sst	88404.7	48571.8	16059.9	17806.5	8242.1	26932.8	26218.7	0.0	0.0	0035-1
		100099.4	36508.8	9885.2	8892.9	0.0	178247.5	17572.4	0.0	66246.0	
		43320.6	37622.0	25067.9	26378.8	16834.3	14277.8	8592.0	8994.2	4941.2	
4080.00	S/Sst	58851.7	26821.6	6318.9	9065.7	2248.3	7105.0	8183.6	0.0	0.0	0052-3
		30795.8	7204.5	0.0	0.0	0.0	62789.5	3042.3	0.0	14424.5	
		9702.2	5840.0	3893.6	3874.0	2113.9	1898.3	1053.4	1322.3	735.9	

Table 11g: Amount of triterpanes (ppb) for Well NOCS 9/2-7S

Depth unit of measure: m

Depth	Lithology	23/3	24/3	25/3	24/4	26/3	27Ts	27Tm	28aß	25nor30aß	Sample
		29aß	29Ts	30d	29ßa	30O	30aß	30ßa	30G	31aßS	
		31aßR	32aßS	32aßR	33aßS	33aßR	34aßS	34aßR	35aßS	35aßR	
4092.00	S/Sst	102747.1	56575.2	20036.4	31398.7	10413.2	44325.8	52310.0	0.0	0.0	0055-3
		138235.2	52705.9	12224.7	14814.9	0.0	310577.2	25835.8	21254.7	115420.9	
		75978.2	82035.1	54390.8	62608.1	39393.0	56680.6	34854.1	53652.4	34265.4	
4095.00	Sh/Clst	12320.9	4324.4	0.0	74502.2	0.0	10933.5	124243.1	0.0	0.0	0056-2
		229122.2	15495.2	16636.5	18262.1	0.0	246987.7	33244.0	0.0	108887.4	
		68264.9	61892.0	40903.4	17493.8	12363.1	6723.6	3726.4	1880.5	841.4	

Table 11h: Amount of steranes (ppb) m/z 217 SIR for Well NOCS 9/2-7S

Depth unit of measure: m

Depth	Lithology	21a	22a	27dßS	27dßR	27daR	27daS	28dßS	28dßR	28daR*	Sample
		29dßS*	28daS*	27aaR	29dßR	29daR	28aaS	29daS*	28ßßS		
		28aaR	29aaS	29ßßR	29ßßS	29aaR					
3690.00	bulk	36227.6	14151.2	40712.5	26331.5	9684.6	9602.6	15358.5	11520.2	31711.8	0018-0
		31008.5	28637.3	95405.6	17181.9	7458.6	12944.3	19517.9	22817.2		
		15323.4	18755.9	28909.6	24105.0	24934.2					
3885.19	S/Sst	55676.1	19387.5	112005.4	73669.4	26683.7	32880.1	48006.5	33868.5	55853.0	0003-1
		77926.5	73632.2	64215.6	55049.0	20853.8	29519.8	46575.1	59255.6		
		26293.6	38123.9	56514.9	51381.3	41156.1					
3933.00	S/Sst	40099.6	11105.2	67504.7	46525.7	17035.4	21504.0	34907.9	22218.9	38469.2	0030-1
		55266.9	52397.7	52414.6	40369.1	15341.7	21139.9	34145.8	46584.9		
		19004.5	29070.1	44872.4	40189.5	34041.8					
3984.00	S/Sst	92112.5	27872.7	41369.2	28386.2	9043.2	10618.4	16692.1	10043.2	16087.1	0035-1
		25301.8	23109.0	33525.0	17596.1	6065.8	8121.0	13498.8	17840.9		
		6882.4	9840.0	17077.3	14532.7	11268.0					
4080.00	S/Sst	34949.9	8478.6	7659.5	8066.7	1061.5	1356.9	2223.4	1025.0	2367.6	0052-3
		3249.2	3441.5	26390.2	2317.0	475.6	818.3	1673.7	2675.4		
		906.4	885.5	1928.9	1648.2	1385.1					

* 28daR coel with 27aaS, 29dßS coel with 27ßßR, 28daS coel with 27ßßS, 29daS coel with 28ßßR

Table 11h: Amount of steranes (ppb) m/z 217 SIR for Well NOCS 9/2-7S

Depth unit of measure: m

Depth	Lithology	21a	22a	27dßS	27dßR	27daR	27daS	28dßS	28dßR	28daR*	Sample
		29dßS*	28daS*	27aaR	29dßR	29daR	28aaS	29daS*	28ßßS		
		28aaR	29aaS	29ßßR	29ßßS	29aaR					
4092.00	S/Sst	113861.0	34554.5	43290.1	35008.6	13438.7	15638.3	19142.0	11818.9	25573.3	0055-3
		41487.5	44330.6	81557.1	22569.3	8851.3	14334.7	28349.3	44338.0		
		14259.3	28904.7	62521.8	52288.6	38060.5					
4095.00	Sh/Clst	17880.6	7732.6	4548.2	3770.4	1337.4	1638.3	3958.4	1895.0	2670.2	0056-2
		8746.6	6450.8	10806.2	7982.7	2001.4	2764.0	3534.3	7389.8		
		2323.1	7374.6	10719.8	8665.7	9537.3					

* 28daR coel with 27aaS, 29dßS coel with 27ßßR, 28daS coel with 27ßßS, 29daS coel with 28ßßR

Table 11i: Amount of standard and weight of sample for Well NOCS 9/2-7S

Depth unit of measure: m

Depth	Lithology	Standard	Amount	Weight	Sample
3690.00	bulk	168833.3	0.700	0.7	0018-0
3885.19	S/Sst	15470.1	0.700	29.1	0003-1
3933.00	S/Sst	225745.2	0.700	0.8	0030-1
3984.00	S/Sst	181099.3	0.700	0.5	0035-1
4080.00	S/Sst	261339.2	0.700	0.1	0052-3
4092.00	S/Sst	165205.8	0.700	0.1	0055-3
4095.00	Sh/Clst	362106.5	0.700	0.6	0056-2

Table 11j. Biomarker Parameters, well 9/2-7S

Yme	9/2-7S	FMT-ref-1A	7/1A			FMT
Yme	9/2-7S	FMT 1/52853	7/1/52853			FMT
Yme	9/2-7S	0018-0	T7	3690	bulk	cuttings
Yme	9/2-7S	0003-1	S7	3686.19	wet	Core-chip
Yme	9/2-7S	0030-1	S7	3933	wet	cuttings
Yme	9/2-7S	0036-1	S7	3984	wet	cuttings
Yme	9/2-7S	0052-2	S7wt	4080	wet	cuttings
Yme	9/2-7S	0068-2	S7wt	4092	wet	cuttings
Yme	9/2-7S	0068-2	S7	4096	shklet	cuttings

20S	bb	22S	Ts/Tm	Tsx	30D	30AB-HOP	%C27	%C28	%C29	C30	Oleirreg	29ster/H	H/S	ppm/H	ppm/S	3R/H	4R/H	3M/24H	29/30H	Dem/H	O/H	O/H
0.46	0.67	0.59	1.30	1.29	0.06	0.89	40	30	30	0.06	1.94	0.90	1.82	-	-	0.09	0.07	0.89	0.45	0.00	0.00	-
0.47	0.58	0.60	1.19	1.12	0.06	0.91	39	30	30	0.07	1.29	0.00	1.74	-	-	0.08	0.06	0.67	0.42	0.00	0.00	0.01
0.43	0.55	0.60	0.96	0.92	0.04	0.97	39	27	35	0.05	0.53	0.03	3.28	-	-	0.12	0.12	0.75	0.60	0.00	0.00	0.00
0.48	0.58	0.13	1.19	1.47	0.06	0.81	39	30	31	0.07	1.85	0.00	3.33	-	-	0.04	0.04	0.75	0.40	0.00	0.00	-
0.48	0.57	0.56	1.07	1.18	0.06	0.91	37	31	32	0.07	1.25	0.00	4.16	-	-	0.05	0.03	0.72	0.41	0.00	0.00	-
0.47	0.60	0.60	1.03	1.11	0.06	0.91	39	31	30	0.05	1.41	0.00	3.85	-	-	0.60	0.10	0.81	0.56	0.00	0.00	-
0.28	0.61	0.60	0.87		0.00	0.86	43	31	26	0.03	0.56	0.00	7.19	-	-	0.04	0.14	0.70	0.49	0.00	0.00	-
0.45	0.63	0.60	0.85	0.83	0.04	0.92	30	27	43	0.03	0.73	0.00	2.96	-	-	0.35	0.10	0.96	0.45	0.00	0.00	-
0.44	0.63	0.60	0.89	0.91	0.07	0.88	19	28	54	0.01	0.52	0.00	18.47	-	-	0.05	0.20	0.25	0.93	0.00	0.00	-

Table 12a: Variation in Triaromatic Sterane Distribution (peak height) for Well NOCS 9/2-7S

Depth unit of measure: m

Depth	Lithology	Ratio1	Ratio2	Ratio3	Ratio4	Ratio5	Sample
3885.19	S/Sst	0.54	0.48	0.25	0.26	0.35	0003-1

Ratio1: a1 / a1 + g1
Ratio2: b1 / b1 + g1
Ratio3: a1 + b1 / a1 + b1 + c1 + d1 + e1 + f1 + g1
Ratio4: a1 / a1 + e1 + f1 + g1
Ratio5: a1 / a1 + d1

Table 12b: Variation in Monoaromatic Sterane Distribution (peak height) for Well NOCS 9/2-7S

Depth unit of measure: m

Depth	Lithology	Ratio1	Ratio2	Ratio3	Ratio4	Sample
3885.19	S/Sst	0.38	0.27	0.25	0.22	0003-1

Ratio1: A1 / A1 + E1
Ratio2: B1 / B1 + E1

Ratio3: A1 / A1 + E1 + G1
Ratio4: A1+B1 / A1+B1+C1+D1+E1+F1+G1+H1+I1

Table 12c: Aromatisation of Steranes (peak height) for Well NOCS 9/2-7S

Depth unit of measure: m

Depth	Lithology	Ratio1	Ratio2	Sample
3885.19	S/Sst	0.32	0.92	0003-1

$$\text{Ratio1:} \quad \frac{C1+D1+E1+F1+G1+H1+I1}{C1+D1+E1+F1+G1+H1+I1 + c1+d1+e1+f1+g1}$$

Ratio2: g1 / g1 + I1

Table 12d: Raw triaromatic sterane data (peak height) m/z 231 for Well NOCS 9/2-7S

Depth unit of measure: m

Depth	Lithology	a1	b1	c1	d1	e1	f1	g1	Sample
3885.19	S/Sst	49765.6	39543.5	23117.5	94218.5	54058.4	47812.6	42630.4	0003-1

Table 12e: Raw monoaromatic sterane data (peak height) m/z 253 for Well NOCS 9/2-7S

Depth unit of measure: m

Depth	Lithology	A1	B1	C1	D1	E1	F1	G1	H1	I1	Sample
3885.19	S/Sst	21212.7	13132.8	19105.9	14546.6	34904.9	8311.5	27541.9	14925.3	3684.8	0003-1

Table 16A: Isotope GC of Saturated Fraction for Well NOCS 9/2-7S

Depth unit of measure: m

Depth	Lithology	nC9	nC10	nC11	nC12	iC13	iC14	nC13	iC15	nC14	Sample
3690.00	bulk	-	-	-	-	-	-	-32.60	-	-30.20	0018-0
3885.19	S/Sst	-	-	-	-32.60	-	-31.40	-32.10	-30.10	-30.40	0003-1
3933.00	S/Sst	-	-	-	-	-	-	-	-	-31.30	0030-1
3984.00	S/Sst	-	-	-	-	-	-	-	-	-31.40	0035-1
4080.00	S/Sst	-	-	-	-	-	-	-	-	-	0052-3
4092.00	S/Sst	-	-	-	-	-	-	-	-	-	0055-3
4095.00	Sh/Clst	-	-	-	-	-	-	-31.80	-30.90	-28.40	0056-2

Table 16B: Isotope GC of Saturated Fraction for Well NOCS 9/2-7S

Depth unit of measure: m

Depth	Lithology	iC16	nC15	nC16	iC18	nC17	pristane	nC18	phytane	nC19	Sample
3690.00	bulk	-29.50	-28.60	-28.70	-28.50	-28.00	-29.20	-29.50	-30.00	-29.80	0018-0
3885.19	S/Sst	-29.30	-30.10	-29.40	-28.90	-29.80	-30.50	-29.60	-30.10	-29.90	0003-1
3933.00	S/Sst	-30.60	-30.90	-30.40	-29.60	-29.50	-30.30	-30.00	-30.50	-29.80	0030-1
3984.00	S/Sst	-29.90	-28.60	-26.90	-26.90	-26.10	-27.30	-26.70	-28.10	-27.50	0035-1
4080.00	S/Sst	-	-	-31.20	-30.30	-30.50	-30.90	-29.80	-30.20	-29.90	0052-3
4092.00	S/Sst	-	-	-	-	-	-	-	-	-	0055-3
4095.00	Sh/Clst	-30.20	-27.60	-26.30	-29.40	-26.40	-29.20	-26.10	-30.10	-26.60	0056-2

Table 16C: Isotope GC of Saturated Fraction for Well NOCS 9/2-7S

Depth unit of measure: m

Depth	Lithology	nC20	nC21	nC22	nC23	nC24	nC25	nC26	nC27	nC28	Sample
3690.00	bulk	-30.70	-30.20	-31.20	-30.30	-30.70	-30.50	-30.60	-30.70	-31.10	0018-0
3885.19	S/Sst	-29.50	-29.90	-29.80	-29.70	-30.10	-29.70	-30.20	-30.00	-30.00	0003-1
3933.00	S/Sst	-30.40	-30.40	-30.50	-30.60	-30.50	-30.50	-30.80	-30.30	-30.50	0030-1
3984.00	S/Sst	-28.20	-28.60	-28.80	-29.10	-28.90	-29.50	-30.10	-29.50	-30.10	0035-1
4080.00	S/Sst	-29.90	-29.80	-29.90	-29.70	-30.10	-30.30	-30.20	-30.40	-30.50	0052-3
4092.00	S/Sst	-	-	-	-	-	-	-	-	-	0055-3
4095.00	Sh/Clst	-26.00	-	-25.20	-24.80	-26.30	-25.30	-26.70	-26.70	-28.00	0056-2

Table 16D: Isotope GC of Saturated Fraction for Well NOCS 9/2-7S

Depth unit of measure: m

Depth	Lithology	nC29	nC30	nC31	nC32	nC33	nC34	nC35	nC36	Sample
3690.00	bulk	-31.10	-31.20	-31.80	-31.70	-32.00	-	-	-	0018-0
3885.19	S/Sst	-30.30	-30.60	-30.60	-31.10	-31.00	-30.80	-31.00	-	0003-1
3933.00	S/Sst	-30.90	-30.60	-31.00	-31.40	-31.20	-31.40	-31.80	-32.70	0030-1
3984.00	S/Sst	-30.60	-30.30	-31.00	-31.00	-30.90	-31.00	-	-	0035-1
4080.00	S/Sst	-31.90	-31.90	-32.90	-32.70	-32.80	-	-	-	0052-3
4092.00	S/Sst	-	-	-	-	-	-	-	-	0055-3
4095.00	Sh/Clst	-28.50	-29.90	-31.00	-30.60	-33.00	-33.00	-	-	0056-2

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1 Introduction

This report gives the result of routine vitrinite reflectance analyses on 11 samples covering the interval from 3140 to 4095 mRKB in well 9/2-7S offshore Norway.

2 Material

2.1 Samples

The material was provided from the client as 11 washed and dried cuttings samples.

2.2 Geological information and casing points

Information on stratigraphy in well 9/2-7S was not provided from the client.

3 Analytical techniques

3.1 Preparation

The cuttings samples were washed and then treated with hydrochloric and hydrofluoric acid prior to further preparation. The aim was to avoid soft and expanding mineral phases in order to ensure good polishing quality. 6 samples were treated with dichloromethane (table 1) because of oily substances which prevented further preparation. The sample material resulting from the acid treatment was embedded in an epoxy resin to make briquettes, ground flat and polished using 0.25 micron diamond paste and magnesium oxide as the two final steps.

3.2 Analysis

The analytical equipment being used was a Zeiss MPM 03 photometer microscope equipped with an Epiplan-Neofluar 40/0.90 oil objective. The sensitive measuring spot was kept constant for all measurements at about 2.5 micron in diameter. The measurements were made through a green band pass filter (546 nm) and in oil immersion (refractive index 1.515 at 18°C). The readings were made without a polarizer and using a stationary stage. This procedure is called measurement of random reflectance (%Rm). The photometer is calibrated daily against a standard of known reflectance (%Rm= 0.588) and routinely (daily) checked against two other standards of significant different reflectances (%Rm=0.879 and 1.696). A deviation from these values of less than ±0.01 and ±0.02 respectively is considered as acceptable. The calibration is routinely checked during the course of measurements at least every hour, and a deviation of less than ±0.005 is considered as acceptable.

For each sample at least 20 points were measured if possible, and quality ratings are given to various important aspects which may affect the measurements. These aspects are abundance of vitrinite, uncertainties in the identification of indigenous vitrinite, type of vitrinite, particle size, particle surface quality and abundance of pyrite.

3.3 Presentation of results

The raw data from the measurements are presented in appendix for each sample both as tabulated data and histograms. A true vitrinite population is selected among the readings based on observations made during the measurements, and arithmetic mean values are calculated for this population and other populations. A quality rating is given to the true population. The results are listed in table 1. Figure 1 shows a vitrinite reflectance data versus depth plot in both linear and logarithmic scale.

4 Results

The samples between 3140m and 3620m were oily and difficult to prepare. To make further preparation possible, the samples were treated with dichloromethane, which

brought them to a moderate acceptable quality. It has been possible to establish a fairly good vitrinite reflectance towards depth trend for the analysed deep part of well 9/2-7S.

Table 1. Vitrinite reflectance data table

Analysis type:	Vitrinite reflectance
Well:	9/2-7S
Number of samples:	11
Time period for analysis:	sep-97
Analysis performed by:	Kristine Aasgaard, Institutt for energiteknikk
Analysis ordered by:	Geolab Nor

IFE sample code	Depth (m)	Sample type	Lithology	Vitr. refl. (%Rm)	Stand. dev.	Number of readings	Sample description	Sample quality	Sample prep.
970807	3140	cut	clst	0.59	0.09	16	-oo--+	P	HF/DCM
970808	3210	cut	clst	barren					HF/DCM
970809	3310	cut	clst	0.62	0.06	20	ooo--+	M	HF/DCM
970810	3410	cut	clst	0.72	0.08	22	oo±--+	P	HF/DCM
970811	3510	cut	clst	0.72	0.08	25	ooo--+	M	HF/DCM
970812	3620	cut	clst	0.75	0.07	23	ooo--+	M	HF/DCM
970813	3723	cut	clst	0.82	0.07	21	oooo-+	M	HF
970814	3822	cut	clst	0.82	0.08	17	ooo--+	M	HF
970815	3924	cut	clst	0.96	0.08	3	-oo-o+	P	HF
970816	4020	cut	coal/clst	0.84	0.06	19	oooo-o	M	HF
970817	4095	cut	coal/clst	0.93	0.07	23	oooooo	G	HF

Data for Pre-Extracted Rock Samples NOCS 9/2-7S

Table 5A: Rock-Eval table for well NOCS 9/2-7S PRE-EXTRACTED

Depth unit of measure: m

Depth	Typ	Form	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
3690.00	cut		bulk	0.50	37.38	0.34	109.94	6.80	550	5	37.9	0.01	432	0001-0B
3699.00	cut		bulk	0.54	43.01	0.46	93.50	7.84	549	6	43.5	0.01	432	0002-0B
3714.00	cut		bulk	0.53	40.54	0.58	69.90	7.44	545	8	41.1	0.01	432	0003-0B
3723.00	cut		bulk	0.41	31.38	0.57	55.05	6.19	507	9	31.8	0.01	432	0004-0B
3735.00	cut		bulk	2.34	38.07	0.77	49.44	6.98	545	11	40.4	0.06	432	0005-0B
3741.00	cut		bulk	0.72	28.73	0.75	38.31	5.49	523	14	29.4	0.02	431	0006-0B
3747.00	cut		bulk	0.49	20.94	0.72	29.08	4.34	482	17	21.4	0.02	432	0007-0B
3774.00	cut		bulk	0.49	12.70	0.54	23.52	2.92	435	18	13.2	0.04	436	0008-0B
3816.00	cut		bulk	0.32	5.06	0.74	6.84	1.99	254	37	5.4	0.06	437	0009-0B
3845.00	cut		bulk	0.30	5.45	0.88	6.19	2.89	189	30	5.8	0.05	434	0010-0B
3990.00	cut		bulk	0.05	1.00	0.37	2.70	1.51	66	25	1.0	0.05	439	0011-0B
4002.00	cut		bulk	9.27	52.62	0.73	72.08	57.00	92	1	61.9	0.15	424	0012-0B
4005.00	cut		bulk	0.99	44.38	0.10	443.80	17.80	249	1	45.4	0.02	443	0013-0B
4023.00	cut		bulk	0.96	32.16	0.22	146.18	12.40	259	2	33.1	0.03	441	0014-0B
4038.00	cut		bulk	0.23	5.39	0.18	29.94	3.91	138	5	5.6	0.04	446	0015-0B
4053.00	cut		bulk	0.18	2.35	0.21	11.19	2.39	98	9	2.5	0.07	449	0016-0B

Table 5A: Rock-Eval table for well NOCS 9/2-7S PRE-EXTRACTED

Depth unit of measure: m

Depth	Typ	Form	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
4095.00	cut		bulk	0.05	1.20	0.16	7.50	1.20	100	13	1.2	0.04	449	0017-0B

Table 5B: Rock-Eval table for well RE,STD

Depth unit of measure: m

Depth	Typ	Form	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
1.00	std		bulk	0.39	19.13	1.90	10.07	-	-	-	19.5	0.02	418	0157-0B
1.00	std		bulk	0.42	18.05	1.65	10.94	-	-	-	18.5	0.02	423	0184-0B
2.00	std		bulk	0.47	19.16	2.05	9.35	-	-	-	19.6	0.02	422	0174-0B
3.00	std		bulk	0.48	19.41	2.05	9.47	-	-	-	19.9	0.02	423	0175-0B

Data for Oil Samples NOCS 9/2-7S

Table 8a: MPLC Bulk Composition: Weight of Oil and Fraction for NOCS 9/2-7S

Well	Description	Whole oil (mg)	Light (mg)	Topped (mg)	Sat (mg)	Aro (mg)	Asph (mg)	NSO (mg)	HC (mg)	Non-HC (mg)	Sample
9/2-7S	FMT15653	104.4	18.8	85.6	52.9	24.8	1.1	6.7	77.8	7.8	P65/0001
9/2-7S	FMTRun1A	119.5	21.4	98.1	59.0	28.1	1.2	9.8	87.1	11.0	P65/0002

Table 8b: MPLC Bulk Composition: Comparison of topped oil (%) for NOCS 9/2-7S

Well	Description	Sat	Aro	Asph	NSO	Total	HC	Non-HC	Recov. MPLC	Recov. Asph	Sample
9/2-7S	FMT15653	61.84	29.01	1.29	7.87	100.00	90.84	9.16	0.87	0.96	P65/0001
9/2-7S	FMTRun1A	60.12	28.68	1.22	9.98	100.00	88.79	11.21	0.87	0.92	P65/0002

Table 8c: MPLC Bulk Composition: Ratios in topped oil for NOCS 9/2-7S

Well	Description	Sat / Aro	HC / Non-HC	Asp / NSO	Sample
9/2-7S	FMT15653	2.13	9.92	0.16	P65/0001
9/2-7S	FMTRun1A	2.10	7.92	0.12	P65/0002

Table 8f: Iatroscan TLC Bulk Composition: Absolute yields in mg of topped oil for NOCS 9/2-7S

Well	Description	Wh. oil	Topped	Sat HC	Aro HC	NSO	Asp	HC	Non-HC	Sample
9/2-7S	FMT15653	0.00	85.60	51.85	24.38	8.27	1.10	76.23	9.37	P65/0001
9/2-7S	FMTRun1A	0.00	98.10	57.24	31.00	8.66	1.20	88.24	9.86	P65/0002

Table 8g: Iatroscan TLC Bulk Composition: Rel. percentages of sep. fractions for NOCS 9/2-7S

Well	Description	Sat HC	Aro HC	NSO	Asp	Total	HC	Non-HC	Recov. Iatr.	Recov. Asp	Sample
9/2-7S	FMT15653	60.57	28.48	9.67	1.29	100.00	89.05	10.95	0.95	0.96	P65/0001
9/2-7S	FMTRun1A	58.35	31.60	8.83	1.22	100.00	89.95	10.05	0.94	0.92	P65/0002

Table 9A: Quantitative Analysis of Saturated Fraction for well NOCS 9/2-7S

sample	nC15 mg/g sat	nC16 mg/g sat	iC18 mg/g sat	nC17 mg/g sat	Pr mg/g sat	nC18 mg/g sat	Ph mg/g sat	nC19 mg/g sat	nC20 mg/g sat	nC21 mg/g sat	nC22 mg/g sat	nC23 mg/g sat	nC24 mg/g sat	nC25 mg/g sat	nC26 mg/g sat	nC27 mg/g sat	nC28 mg/g sat	nC29 mg/g sat	nC30 mg/g sat	nC31 mg/g sat	nC32 mg/g sat	nC33 mg/g sat	nC34 mg/g sat
FMT 15653	17.43	16.07	10.68	17.05	14.32	13.59	8.75	14.46	11.23	9.22	8.56	7.81	6.92	6.56	5.12	3.98	2.97	3.08	2.44	2.11	1.48	1.27	1.17
FMT Run 1A	17.59	16.14	10.60	16.92	13.73	13.50	8.73	14.45	11.27	9.13	8.57	7.73	6.92	6.44	4.94	4.11	2.96	3.10	2.45	2.06	1.61	1.44	1.33

Table 9B: Saturated Hydrocarbon Ratios (peak area) for NOCS 9/2-7S

Well	Description	Pristane / nC17	Pristane / Phytane	Pristane/nC17 / Phytane/nC18	Phytane / nC18	CPI1	nC17 / nC17+nC27	Sample
9/2-7S	FMT15653	0.84	1.64	1.30	0.64	1.11	0.81	P65/0001
9/2-7S	FMTRun1A	0.81	1.57	1.26	0.65	1.11	0.80	P65/0002

Table 9Ca: Aromatic Hydrocarbon Ratios (peak area) for NOCS 9/2-7S

Well	Description	MNR	DMNR	BPhR	2/1MP	MPI1	MPI2	Rc	DBT/P	4/1MDBT	(3+2) /1MDBT	Sample
9/2-7S	FMT15653	1.69	1.50	-	-	-	-	-	-	-	-	P65/0001
9/2-7S	FMTRun1A	1.63	1.65	-	1.23	0.77	0.86	0.86	-	-	-	P65/0002

Table 9Cb: Aromatic Hydrocarbon Ratios (peak area) for NOCS 9/2-7S

Well	Description	F1	F2	Sample
9/2-7S	FMT15653	-	-	P65/0001
9/2-7S	FMTRun1A	0.49	0.27	P65/0002

Table 10A: Tabulation of carbon isotope data on oils for NOCS 9/2-7S

Well	Descript.	Whole oil	Topped oil	Saturated	Aromatic	NSO	Asphaltenes	Sample
9/2-7S	FMT15653	-	-29.27	-29.64	-28.03	-27.44	-26.86	P65/0001
9/2-7S	FMTRun1A	-	-29.44	-29.42	-28.17	-27.26	-26.87	P65/0002

Table 10B: Tabulation of cv values from carbon isotope data for NOCS 9/2-7S

Well	Descript.	Saturated	Aromatic	cv value	Sample
9/2-7S	FMT15653	-29.64	-28.03	1.11	P65/0001
9/2-7S	FMTRun1A	-29.42	-28.17	0.25	P65/0002

Table 11a: Variation in Triterpane Distribution (peak height) SIR for NOCS 9/2-7S

Well	Descript.	Ratio1	Ratio2	Ratio3	Ratio4	Ratio5	Ratio6	Ratio7	Ratio8	Ratio9	Rat.10	Rat.11	Rat.12	Rat.13	Rat.14	Sample
9/2-7S	FMT15653	0.84	0.46	0.10	0.42	0.30	0.06	-	-	-	0.05	0.91	0.30	0.11	60.11	P65/0001
9/2-7S	FMTRun1A	0.77	0.44	0.10	0.45	0.31	0.06	-	-	-	0.06	0.91	0.31	0.10	58.37	P65/0002

List of Triterpane Distribution Ratios

Ratio 1: 27Tm / 27Ts

Ratio 2: 27Tm / 27Tm+27Ts

Ratio 3: 27Tm / 27Tm+30aß+30ßa

Ratio 4: 29aß / 30aß

Ratio 5: 29aß / 29aß+30aß

Ratio 6: 30d / 30aß

Ratio 7: 28aß / 30aß

Ratio 8: 28aß / 29aß

Ratio 9: 28aß / 28aß+30aß

Ratio 10: 24/3 / 30aß

Ratio 11: 30aß / 30aß+30ßa

Ratio 12: 29aß+29ßa / 29aß+29ßa+30aß+30ßa

Ratio 13: 29ßa+30ßa / 29aß+30aß

Ratio 14: 32aßS / 32aßS+32aßR (%)

Table 11b: Variation in Sterane Distribution (peak height) SIR for NOCS 9/2-7S

Well	Descript.	Ratio1	Ratio2	Ratio3	Ratio4	Ratio5	Ratio6	Ratio7	Ratio8	Ratio9	Ratio10	Sample
9/2-7S	FMT15653	0.71	47.17	73.04	1.44	0.74	0.42	0.28	0.58	0.89	2.56	P65/0001
9/2-7S	FMTRun1A	0.71	48.13	72.93	1.49	0.74	0.43	0.29	0.57	0.93	2.60	P65/0002

List of Sterane Distribution Ratios

Ratio 1: 27dßS / 27dßS+27aaR

Ratio 2: 29aaS / 29aaS+29aaR (%)

Ratio 3: 2*(29ßßR+29ßßS) / (29aaS+29aaR + 2*(29ßßR+29ßßS)) (%)

Ratio 4: 27dßS+27dßR+27daR+27daS / 29dßS+29dßR+29daR+29daS

Ratio 5: 29ßßR+29ßßS / 29ßßR+29ßßS+29aaS

Ratio 6: 21a+22a / 21a+22a+29aaS+29ßßR+29ßßS+29aaR

Ratio 7: 21a+22a / 21a+22a+28daS+28aaS+29daR+29aaS+29ßßR+29ßßS+29aaR

Ratio 8: 29ßßR+29ßßS / 29aaS+29ßßR+29ßßS+29aaR

Ratio 9: 29aaS / 29aaR

Ratio 10: 29ßßR+29ßßS / 29aaR

Table 11c: Raw triterpane data (peak height) m/z 191 SIR for NOCS 9/2-7S

Well	Descript.	23/3	24/3	25/3	24/4	26/3	27Ts	27Tm	28aß	25nor30aß	Sample
		29aß	29Ts	30d	29ßa	30O	30aß	30ßa	30G	31aßS	
		31aßR	32aßS	32aßR	33aßS	33aßR	34aßS	34aßR	35aßS	35aßR	
9/2-7S	FMT15653	9457.7	5492.5	3081.9	6989.0	2183.1	16441.1	13865.2	0.0	0.0	P65/0001
		49048.9	23616.4	6761.9	6011.7	0.0	117094.5	11620.6	0.0	39915.6	
		27273.7	22927.2	15212.5	20757.3	12663.9	11414.6	6626.0	7572.5	4437.9	
9/2-7S	FMTRun1A	9450.2	6086.8	3051.6	7490.7	1996.0	16760.6	12921.5	0.0	0.0	P65/0002
		48453.2	23591.5	6774.8	5260.9	0.0	108163.9	10959.9	0.0	41528.7	
		26985.5	22731.4	16211.3	19557.2	12421.8	11948.7	6930.0	8040.2	5056.7	

Table 11d: Raw sterane data (peak height) m/z 217 SIR for NOCS 9/2-7S

Well	Descript.	21a	22a	27dßS	27dßR	27daR	27daS	28dßS	28dßR	28daR*	Sample
		29dßS*	28daS*	27aaR	29dßR	29daR	28aaS	29daS*	28ßßS		
		28aaR	29aaS	29ßßR	29ßßS	29aaR					
9/2-7S	FMT15653	44077.6	13138.6	62820.6	36333.1	13181.4	17061.3	26420.4	16245.0	25605.0	P65/0001
		34983.8	33752.1	25856.3	25084.1	9874.0	12599.0	19989.8	26182.2		
		11266.3	15913.5	24372.4	21333.3	17821.9					
9/2-7S	FMTRun1A	46352.4	13890.6	64804.9	36544.8	13359.5	17348.2	25913.7	16256.0	26202.3	P65/0002
		34692.1	35258.0	26073.2	24254.4	9398.3	11646.7	20029.2	26152.7		
		11398.0	16657.7	24510.4	22101.1	17952.4					

* 28daR coel with 27aaS, 29dßS coel with 27ßßR, 28daS coel with 27ßßS, 29daS coel with 28ßßR

Table 11e: Raw sterane data (peak height) m/z 218 SIR for NOCS 9/2-7S

Well	Descript.	27ßßR	27ßßS	28ßßR	28ßßS	29ßßR	29ßßS	30ßßR	30ßßS	Sample
9/2-7S	FMT15653	41610.8	44143.0	29590.7	37396.2	33848.7	33096.4	7090.8	7249.1	P65/0001
9/2-7S	FMTRun1A	44242.8	45796.1	30728.9	37843.3	33371.3	33417.5	7147.5	7360.5	P65/0002

Table 11f: Raw triterpane data (peak height) m/z 177 SIR for NOCS 9/2-7S

Well	Descript.	25nor28aß	25nor30aß	Sample
9/2-7S	FMT15653	0.0	0.0	P65/0001
9/2-7S	FMTRun1A	0.0	0.0	P65/0002

Table 11g: Amount of triterpanes (ppb) m/z 191 SIR for NOCS 9/2-7S

Well	Descript.	23/3	24/3	25/3	24/4	26/3	27Ts	27Tm	28aß	25nor30aß	Sample
		29aß	29Ts	30d	29ßa	30O	30aß	30ßa	30G	31aßS	
		31aßR	32aßS	32aßR	33aßS	33aßR	34aßS	34aßR	35aßS	35aßR	
9/2-7S	FMT15653	40718.1	23646.9	13268.7	30089.6	9398.7	70783.8	59693.9	0.0	0.0	P65/0001
		211170.2	101675.6	29111.9	25882.2	0.0	504127.0	50030.2	0.0	171848.5	
		117421.3	98708.4	65494.3	89366.5	54521.9	49143.4	28527.1	32601.7	19106.6	
9/2-7S	FMTRun1A	37806.5	24350.9	12208.3	29967.1	7985.3	67052.4	51693.7	0.0	0.0	P65/0002
		193841.2	94380.0	27103.4	21046.7	0.0	432719.4	43845.9	0.0	166139.2	
		107958.0	90938.9	64854.9	78240.3	49694.4	47802.1	27723.9	32165.7	20230.0	

Table 11h: Amount of steranes (ppb) m/z 217 SIR for NOCS 9/2-7S

Well	Descript.	21a	22a	27dßS	27dßR	27daR	27daS	28dßS	28dßR	28daR*	Sample
		29dßS*	28daS*	27aaR	29dßR	29daR	28aaS	29daS*	28ßßS		
		28aaR	29aaS	29ßßR	29ßßS	29aaR					
9/2-7S	FMT15653	189767.3	56565.7	270461.5	156425.1	56750.1	73454.0	113747.8	69939.8	110237.4	P65/0001
		150615.6	145313.1	111319.1	107994.5	42510.6	54242.6	86062.1	112722.1		
		48504.6	68512.6	104930.6	91846.4	76728.5					
9/2-7S	FMTRun1A	185437.0	55570.5	259258.0	146200.7	53445.9	69403.1	103670.0	65033.8	104824.5	P65/0002
		138789.0	141052.8	104308.0	97032.1	37598.7	46593.8	80128.6	104626.3		
		45598.5	66640.8	98056.1	88417.3	71820.2					

* 28daR coel with 27aaS, 29dßS coel with 27ßßR, 28daS coel with 27ßßS, 29daS coel with 28ßßR

Table 11i: Amount of standard and weight of sample for NOCS 9/2-7S

Well	Descript.	Standard	Amount	Weight	Sample
9/2-7S	FMT15653	5912.4	0.700	27.5	P65/0001
9/2-7S	FMTRun1A	6182.8	0.700	28.3	P65/0002

Table 12a: Variation in Triaromatic Sterane Distribution (peak height) for NOCS 9/2-7S

Well	Descript.	Ratio1	Ratio2	Ratio3	Ratio4	Ratio5	Sample
9/2-7S	FMT15653	0.50	0.46	0.24	0.24	0.33	P65/0001
9/2-7S	FMTRun1A	0.55	0.48	0.26	0.26	0.37	P65/0002

Ratio1: a1 / a1 + g1
Ratio2: b1 / b1 + g1
Ratio3: a1 + b1 / a1 + b1 + c1 + d1 + e1 + f1 + g1

Ratio4: a1 / a1 + e1 + f1 + g1
Ratio5: a1 / a1 + d1

Table 12b: Variation in Monoaromatic Sterane Distribution (peak height) for NOCS 9/2-7S

Well	Descript.	Ratio1	Ratio2	Ratio3	Ratio4	Sample
9/2-7S	FMT15653	0.41	0.28	0.29	0.25	P65/0001
9/2-7S	FMTRun1A	0.37	0.30	0.26	0.23	P65/0002

Ratio1: A1 / A1 + E1
Ratio2: B1 / B1 + E1

Ratio3: A1 / A1 + E1 + G1
Ratio4: A1+B1 / A1+B1+C1+D1+E1+F1+G1+H1+I1

Table 12c: Aromatisation of Steranes (peak height) for NOCS 9/2-7S

Well	Descript.	Ratio1	Ratio2	Sample
9/2-7S	FMT15653	0.33	0.95	P65/0001
9/2-7S	FMTRun1A	0.32	0.94	P65/0002

$$\text{Ratio1:} \quad \frac{C1+D1+E1+F1+G1+H1+I1}{C1+D1+E1+F1+G1+H1+I1 + c1+d1+e1+f1+g1}$$

Ratio2: g1 / g1 + I1

Table 12d: Raw triaromatic sterane data (peak height) m/z 231 for NOCS 9/2-7S

Well	Descript.	a1	b1	c1	d1	e1	f1	g1	Sample
9/2-7S	FMT15653	24461.3	20262.2	12599.7	50552.9	28081.1	24903.3	24098.4	P65/0001
9/2-7S	FMTRun1A	28298.3	21814.7	13720.8	47909.5	29155.6	26013.7	23389.8	P65/0002

Table 12e: Raw monoaromatic sterane data (peak height) m/z 253 for NOCS 9/2-7S

Well	Descript.	A1	B1	C1	D1	E1	F1	G1	H1	I1	Sample
9/2-7S	FMT15653	14228.3	8032.0	11752.2	8506.4	20438.4	4165.8	14224.1	8031.9	1306.0	P65/0001
9/2-7S	FMTRun1A	11359.0	8255.2	11011.6	8244.7	19141.5	4127.1	13939.5	7986.4	1380.0	P65/0002

Table 13A: Light Hydrocarbons from Whole Oil GC for NOCS 9/2-7S

Well	Description	iC4	nC4	iC5	nC5	2,2DMC4	2,3DMC4	2MC5	3MC5	nC6	MCyC5	Benz	Sample
9/2-7S	FMT15653	-	-	-	-	-	-	-	-	5.01	3.79	0.55	P65/0001
9/2-7S	FMTRun1A	-	-	-	-	-	-	-	-	5.05	3.62	0.55	P65/0002

Table 13B: Light Hydrocarbons from Whole Oil GC for NOCS 9/2-7S

Well	Description	CyC6	2MC6	3MC6	1,3ci-DMCyC5	1,3tr-DMCyC5	1,2tr-DMCyC5	nC7	MCyC6	Tol	nC8	p/m-Xylene	Sample
9/2-7S	FMT15653	2.90	2.76	2.20	1.13	1.09	2.46	5.34	6.36	2.07	5.54	2.72	P65/0001
9/2-7S	FMTRun1A	2.47	2.36	1.91	0.98	0.92	2.04	4.50	5.42	1.77	4.36	2.20	P65/0002

Table 13C: Thompson's indices for NOCS 9/2-7S

Well	Description	A	B	X	W	C	I	F	H	U	R	S	Sample
9/2-7S	FMT15653	0.11	0.39	0.49	1.90	1.12	1.06	0.84	22.03	0.77	1.93	-	P65/0001
9/2-7S	FMTRun1A	0.11	0.39	0.50	2.23	1.21	1.08	0.83	21.84	0.68	1.91	-	P65/0002

THOMPSON'S INDICES

$$A = \frac{\text{Benzene}}{\text{nC6}} \qquad B = \frac{\text{Toluene}}{\text{nC7}} \qquad X = \frac{\text{p/m-xylene}}{\text{nC8}} \qquad W = \frac{\text{Benzene} * 10}{\text{CyC6}}$$

$$C = \frac{\text{nC6} + \text{nC7}}{\text{CyC6} + \text{MCyC6}} \qquad I = \frac{\text{2MC6} + \text{3MC6}}{\text{1,3ciDMCyC5} + \text{1,3trDMCyC5} + \text{1,2trDMCyC5}} \qquad F = \frac{\text{nC7}}{\text{MCyC6}}$$

$$H = \frac{\text{nC7} * 100}{\text{CyC6} + \text{2MC6} + \text{2,3DMC4} + \text{3MC6} + \text{1,3ciDMCyC5} + \text{1,3trDMCyC5} + \text{1,2trDMCyC5} + \text{nC7} + \text{MCyC6}}$$

$$U = \frac{\text{CyC6}}{\text{MCyC5}} \qquad R = \frac{\text{nC7}}{\text{2MC6}} \qquad S = \frac{\text{nC6}}{\text{2,2DMC4}}$$

Table 16A: Isotope GC of Oil, Saturated Fraction, for NOCS 9/2-7S

Well	Description	nC9	nC10	nC11	nC12	iC13	iC14	nC13	iC15	nC14	Sample
9/2-7S	FMTRun1A	-	-32.90	-31.30	-30.60	-29.90	-31.00	-30.20	-29.50	-29.40	P65/0002

Table 16B: Isotope GC of Oil, Saturated Fraction, for NOCS 9/2-7S

Well	Description	iC16	nC15	nC16	iC18	nC17	pristane	nC18	phytane	nC19	Sample
9/2-7S	FMTRun1A	-29.20	-29.70	-29.60	-29.10	-29.50	-30.30	-29.50	-30.20	-29.50	P65/0002

Table 16C: Isotope GC of Oil, Saturated Fraction, for NOCS 9/2-7S

Well	Description	nC20	nC21	nC22	nC23	nC24	nC25	nC26	nC27	nC28	Sample
9/2-7S	FMTRun1A	-29.40	-29.80	-29.60	-29.80	-29.90	-29.80	-30.30	-30.00	-30.10	P65/0002

Table 16D: Isotope GC of Oil, Saturated Fraction, for NOCS 9/2-7S

Well	Description	nC29	nC30	nC31	nC32	nC33	nC34	nC35	nC36	Sample
9/2-7S	FMTRun1A	-30.40	-30.80	-30.70	-31.50	-31.40	-30.90	-32.10	-	P65/0002

Table 17: Physical parameters for NOCS 9/2-7S

Well	Descript.	Sulphur (wt %)	Ni (ppm)	V (ppm)	°API	Sample
9/2-7S	FMT15653				n.e.	P65/0001
9/2-7S	FMTRun1A				37.35	P65/0002

n.e. = Insufficient material for analysis
n.d. = Not detected
n.a. = Not analyzed due to high water content