

TROMS RESIDUAL OIL

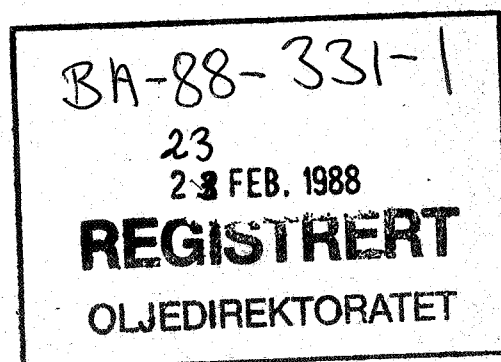
GEOCHEMICAL STUDY

Well NOCS 7120/7-1

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Date: 01.02.1988



INTRODUCTION

This well is from the Norwegian sector of the Tromsøflaket in the Barents Sea and within the area of the Askeladden field.

A total of 121 samples was collected from the Norwegian Petroleum Directorate in Stavanger. All the samples were washed and described (1649 - 2609 m RKB). The analysed interval is from 1649 - 2609 m RKB, the sample interval being 3 m.

A careful selection was made of suitable samples for screening analysis, i.e. TOC and Rock-Eval analyses. Ninety-six (96) samples were selected for these analyses and from the data obtained a number of samples were chosen for further analysis as follows:

Thermal extraction - pyrolysis- gas chromatography	23 samples
Extraction, MPLC fractionation saturated and aromatic hydrocarbon gas chromatography	19 samples
Vitrinite reflectance microscopy	18 samples
Visual kerogen analysis	10 samples
Gas chromatography - mass spectrometry	12 samples

Tables, listing in detail which samples were analysed and the results from the analyses, are shown in the appendix.

Figure 1 shows the litho-variations and some of the screening data for the analysed section of the well and also the location of samples for follow-up analysis. Included in

the figure are some of the problems and intervals of interest which have affected the choice of samples for analysis.

Table 1 : Lithology description for well NOCS 7120/7-1

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	% Lithology description		
2001.00				001
	2.85	60 Sh/Clst: m gy to drk gy, calc 40 S/Sst : lt gy to m gy, calc, slt, f, cem tr Cont : prp, tar-ad		001-1L 001-2L 001-3L
2007.00				002
		60 Sh/Clst: m gy to drk gy, calc 40 S/Sst : lt gy to m gy, calc, slt, f, cem tr Cont : prp, tar-ad		002-1L 002-2L 002-3L
2013.00				003
		50 Sh/Clst: m gy to drk gy, calc 50 S/Sst : lt gy to m gy, calc, slt, f, cem tr Cont : prp, tar-ad		003-1L 003-2L 003-3L
2016.00				004
	0.94	50 Sh/Clst: m gy to drk gy, calc 50 S/Sst : lt gy to m gy, calc, mic, f, cem tr Cont : prp, tar-ad tr Ca : dsk y brn, dol		004-1L 004-2L 004-3L 004-4L
2019.00				005
		50 Sh/Clst: m gy to drk gy, calc 50 S/Sst : lt gy to m gy, calc, mic, f, cem tr Cont : prp, tar-ad tr Ca : dsk y brn, dol		005-1L 005-2L 005-3L 005-4L

Table 1 : Lithology description for well NOCS 7120/7-1

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	%		
Lithology description				
2025.00				006
	2.92	50	Sh/Clst: m gy to drk gy, calc	006-1L
		50	S/Sst : lt gy to m gy, calc, mic, f, cem	006-2L
		tr	Cont : prp, tar-ad	006-3L
		tr	Ca : dsk y brn, dol	006-4L
2031.00				007
		50	Sh/Clst: m gy to drk gy, calc	007-1L
		50	S/Sst : lt gy to m gy, calc, mic, f, cem	007-2L
		tr	Cont : prp, tar-ad	007-3L
		tr	Ca : dsk y brn, dol	007-4L
2037.00				008
		50	Sh/Clst: m gy to drk gy, calc	008-1L
		50	S/Sst : lt gy to m gy, calc, mic, f, cem	008-2L
		tr	Cont : prp, tar-ad	008-3L
		tr	Ca : dsk y brn, dol	008-4L
2040.00				009
	0.90	50	Sh/Clst: m gy to drk gy, calc	009-1L
		50	S/Sst : lt gy to m gy, calc, mic, f, cem	009-2L
		tr	Cont : prp, tar-ad	009-3L
		tr	Ca : dsk y brn, dol	009-4L
2046.00				010
		50	Sh/Clst: m gy to drk gy, calc	010-1L
		50	S/Sst : lt gy to m gy, calc, mic, f, cem	010-2L
		tr	Cont : prp, tar-ad	010-3L
		tr	Ca : dsk y brn, dol	010-4L
		tr	Other : pyr	010-5L

Table 1 : Lithology description for well NOCS 7120/7-1

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	% Lithology description		
2052.00				011
	2.64	50 Sh/Clst: m gy to drk gy, calc		011-1L
		50 S/Sst : lt gy to m gy, calc, mic, f, cem		011-2L
		tr Cont : prp, tar-ad		011-3L
		tr Ca : dsk y brn, dol		011-4L
		tr Other : pyr		011-5L
2058.00				012
		50 Sh/Clst: m gy to drk gy, calc		012-1L
		50 S/Sst : lt gy to m gy, calc, mic, f, cem		012-2L
		tr Cont : prp, tar-ad		012-3L
		tr Ca : dsk y brn, dol		012-4L
		tr Other : pyr		012-5L
2064.00				013
		50 Sh/Clst: m gy to drk gy, calc		013-1L
		50 S/Sst : lt gy to m gy, calc, mic, f, cem		013-2L
		tr Cont : prp, tar-ad		013-3L
		tr Ca : dsk y brn, dol		013-4L
		tr Other : pyr		013-5L
2070.00				014
	0.96	50 Sh/Clst: m gy to drk gy, calc		014-1L
		50 S/Sst : lt gy to m gy, calc, mic, f, cem		014-2L
		tr Cont : prp, tar-ad		014-3L
		tr Ca : dsk y brn, dol		014-4L
		tr Other : pyr		014-5L
2076.00				015
		50 Sh/Clst: m gy to drk gy, calc		015-1L
		50 S/Sst : lt gy to m gy, calc, mic, f, cem		015-2L
		tr Cont : prp, tar-ad		015-3L
		tr Ca : dsk y brn, dol		015-4L
		tr Other : pyr		015-5L

Table 1 : Lithology description for well NOCS 7120/7-1

Depth unit of measure: m

Depth	Type		Trb	Sample
Int	Cvd	TOC%	%	Lithology description
2082.00				016
	2.70		50 Sh/Clst: m gy to drk gy, calc	016-1L
			50 S/Sst : lt gy to m gy, calc, mic, f, cem	016-2L
			tr Cont : prp, tar-ad	016-3L
			tr Ca : dsk y brn, dol	016-4L
			tr Other : pyr	016-5L
2088.00				017
			50 Sh/Clst: m gy to drk gy, calc	017-1L
			50 S/Sst : lt gy to m gy, calc, mic, f, cem	017-2L
			tr Cont : prp, tar-ad	017-3L
			tr Ca : dsk y brn, dol	017-4L
			tr Other : pyr	017-5L
2094.00				018
			50 Sh/Clst: m gy to drk gy, calc	018-1L
			50 S/Sst : lt gy to m gy, calc, mic, f, cem	018-2L
			tr Cont : prp, tar-ad	018-3L
			tr Ca : dsk y brn, dol	018-4L
			tr Other : pyr	018-5L
2100.00				019
	1.08		50 Sh/Clst: m gy to drk gy, calc	019-1L
			50 S/Sst : lt gy to m gy, calc, mic, f, cem	019-2L
			tr Cont : prp, tar-ad	019-3L
			tr Ca : dsk y brn, dol	019-4L
			tr Other : pyr	019-5L
2106.00				020
			50 Sh/Clst: m gy to drk gy, calc	020-1L
			50 S/Sst : lt gy to m gy, calc, mic, f, cem	020-2L
			tr Cont : prp, tar-ad	020-3L
			tr Ca : dsk y brn, dol	020-4L
			tr Other : pyr	020-5L

Table 1 : Lithology description for well NOCS 7120/7-1

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	% Lithology description		
2112.00				021
	3.01	80 Sh/Clst: gy blk to drk gy 20 S/Sst : lt gy to m gy, calc, f, cem tr Cont : prp		021-1L 021-2L 021-3L
2118.00				022
		70 Sh/Clst: gy blk to m gy, mic 30 S/Sst : lt gy to m gy, calc, mic, f, cem tr Ca : dsk y brn, dol tr Cont : prp		022-1L 022-2L 022-3L 022-4L
2124.00				023
		70 Sh/Clst: gy blk to m gy, mic 30 S/Sst : lt gy to m gy, calc, mic, f, cem tr Ca : dsk y brn, dol tr Cont : prp		023-1L 023-2L 023-3L 023-4L
2130.00				024
	2.74	70 Sh/Clst: gy blk to m gy, mic 30 S/Sst : lt gy to m gy, calc, mic, f, cem tr Ca : dsk y brn, dol tr Cont : prp		024-1L 024-2L 024-3L 024-4L
2136.00				025
		70 Sh/Clst: gy blk to m gy, mic 30 S/Sst : lt gy to m gy, calc, mic, f, cem tr Ca : dsk y brn, dol tr Cont : prp		025-1L 025-2L 025-3L 025-4L

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Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	%		

Lithology description				

2142.00				026
	3.13	70	Sh/Clst: gy blk to m gy, mic	026-1L
		30	S/Sst : lt gy to m gy, calc, mic, f, cem	026-2L
			tr Ca : dsk y brn, dol	026-3L
			tr Cont : prp	026-4L
			tr Other : pyr	026-5L
2148.00				027
		80	Sh/Clst: gy blk to m gy, mic	027-1L
		20	S/Sst : lt gy to m gy, calc, mic, f, cem	027-2L
			tr Ca : dsk y brn, dol	027-3L
			tr Cont : prp, tar-ad	027-4L
2154.00				028
		90	Sh/Clst: gy blk to m gy, mic	028-1L
		10	S/Sst : lt gy to m gy, calc, mic, f, cem	028-2L
			tr Ca : dsk y brn, dol	028-3L
			tr Cont : prp, tar-ad	028-4L
2160.00				029
	2.74	90	Sh/Clst: gy blk to m gy, mic	029-1L
		10	S/Sst : lt gy to m gy, calc, mic, f, cem	029-2L
			tr Ca : dsk y brn, dol	029-3L
			tr Cont : prp, tar-ad	029-4L
2166.00				030
		90	Sh/Clst: gy blk to m gy, mic	030-1L
		10	S/Sst : lt gy to m gy, calc, mic, f, cem	030-2L
			tr Ca : dsk y brn, dol	030-3L
			tr Cont : prp, tar-ad	030-4L

Table 1 : Lithology description for well NOCS 7120/7-1

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	% Lithology description		
2172.00				031
	2.76	90 Sh/Clst: gy blk to m gy, mic		031-1L
		10 S/Sst : lt gy to m gy, calc, mic, f, cem		031-2L
		tr Ca : dsk y brn, dol		031-3L
		tr Cont : prp, tar-ad		031-4L
2178.00				032
		90 Sh/Clst: gy blk to drk gy, mic		032-1L
		5 S/Sst : lt gy to m gy, calc, mic, f, cem		032-2L
		5 Ca : dsk y brn, dol		032-3L
		tr Cont : prp		032-4L
2184.00				033
	2.61	90 Sh/Clst: gy blk to drk gy, mic		033-1L
		5 S/Sst : lt gy to m gy, calc, mic, f, cem		033-2L
		5 Ca : dsk y brn, dol		033-3L
		tr Cont : prp		033-4L
2190.00				034
	2.74	90 Sh/Clst: gy blk to drk gy, mic		034-1L
		5 S/Sst : lt gy to m gy, calc, mic, f, cem		034-2L
		5 Ca : dsk y brn, dol		034-3L
		tr Cont : prp		034-4L
2196.00				035
	2.70	90 Sh/Clst: ol blk to drk gy, mic		035-1L
		10 Ca : drk y brn to dsk y brn, dol		035-3L
		tr S/Sst : lt gy to m gy, calc, mic, f, cem		035-2L
		tr Other : pyr		035-4L

Table 1 : Lithology description for well NOCS 7120/7-1

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	% Lithology description		
2202.00				036
	3.60	90 Sh/Clst: ol blk to drk gy, mic 10 Ca : drk y brn to dsk y brn, dol tr S/Sst : lt gy to m gy, calc, mic, f, cem tr Other : pyr		036-1L 036-3L 036-2L 036-4L
2208.00				037
	3.95	90 Sh/Clst: ol blk to drk gy, mic 10 Ca : drk y brn to dsk y brn, dol tr S/Sst : lt gy to m gy, calc, mic, f, cem tr Other : pyr		037-1L 037-3L 037-2L 037-4L
2214.00				038
	3.87	90 Sh/Clst: ol blk to drk gy, mic 10 Ca : drk y brn to dsk y brn, dol tr S/Sst : lt gy to m gy, calc, mic, f, cem tr Other : pyr		038-1L 038-3L 038-2L 038-4L
2220.00				039
	3.56	90 Sh/Clst: ol blk to drk gy 5 Ca : drk y brn to dsk y brn, dol 5 Sh/Clst: gy red, s, mic		039-1L 039-2L 039-3L
2226.00				040
	3.14	90 Sh/Clst: ol blk to drk gy 5 Ca : drk y brn to dsk y brn, dol 5 Sh/Clst: gy red, s, mic		040-1L 040-2L 040-3L

Table 1 : Lithology description for well NOCS 7120/7-1

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	% Lithology description		
2232.00				041
	3.82	80 Sh/Clst: ol blk to drk gy		041-1L
		5 Ca : drk y brn to dsk y brn, dol		041-2L
		5 Sh/Clst: gy red, s, mic		041-3L
		5 Ca : w		041-4L
		5 S/Sst : w to lt gy, calc, f, cem		041-5L
2238.00				042
	2.48	70 Sh/Clst: ol blk to drk gy		042-1L
		10 Sh/Clst: gy red, s, mic		042-3L
		10 Ca : w		042-4L
		5 Ca : drk y brn to dsk y brn, dol		042-2L
		5 S/Sst : w to lt gy, calc, f, cem		042-5L
2244.00				043
	2.54	75 Sh/Clst: ol blk to drk gy		043-1L
		10 Ca : w		043-4L
		5 Ca : drk y brn to dsk y brn, dol		043-2L
		5 Sh/Clst: gy red, s, mic		043-3L
		5 S/Sst : w to lt gy, calc, f, cem		043-5L
2250.00				044
	2.98	80 Sh/Clst: ol blk to drk gy		044-1L
		10 Ca : w		044-3L
		5 Ca : drk y brn to dsk y brn, dol		044-2L
		5 S/Sst : w to lt gy, calc, f, cem		044-4L
2256.00				045
	2.64	90 Sh/Clst: gy blk to ol blk		045-1L
		10 Ca : w to drk y brn		045-2L

Table 1 : Lithology description for well NOCS 7120/7-1

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	%		
Lithology description				
2262.00				046
	2.27	90		046-1L
		10		046-2L
2268.00				047
	2.46	95		047-1L
		5		047-2L
2274.00				048
	2.94	95		048-1L
		5		048-2L
2280.00				049
	3.30	100		049-1L
		tr		049-2L
2286.00				050
	2.77	100		050-1L
		tr		050-2L
2292.00				051
	3.64	100		051-1L
		tr		051-2L
2298.00				052
	3.66	100		052-1L
		tr		052-2L

Table 1 : Lithology description for well NOCS 7120/7-1

Depth unit of measure: m

Depth	Type			Trb	Sample
Int Cvd	TOC%	%	Lithology description		
2304.00					053
	3.87	100	Sh/Clst: gy blk to ol blk tr Ca : w to drk y brn		053-1L 053-2L
2310.00					054
	3.71	100	Sh/Clst: gy blk to ol blk tr Ca : w to drk y brn		054-1L 054-2L
2316.00					055
	3.51	100	Sh/Clst: gy blk to ol blk tr Ca : w to drk y brn		055-1L 055-2L
2322.00					056
	3.60	100	Sh/Clst: gy blk to ol blk		056-1L
2328.00					057
	3.49	100	Sh/Clst: gy blk to ol blk		057-1L
2334.00					058
	3.47	100	Sh/Clst: gy blk to ol blk, mic		058-1L
2340.00					059
	3.33	100	Sh/Clst: gy blk to ol blk, mic		059-1L

Table 1 : Lithology description for well NOCS 7120/7-1

Depth unit of measure: m

Depth	Type			Trb	Sample
Int Cvd	TOC%	%	Lithology description		
2346.00					060
	3.58	100	Sh/Clst: gy blk to ol blk, mic		060-1L
2352.00					061
	3.67	100	Sh/Clst: ol blk, mic		061-1L
2358.00					062
	4.67	100	Sh/Clst: ol blk, mic		062-1L
2364.00					063
	5.66	100	Sh/Clst: ol blk, mic		063-1L
2370.00					064
	5.66	100	Sh/Clst: ol blk, mic		064-1L
2376.00					065
	6.56	100	Sh/Clst: ol blk, mic		065-1L
2382.00					066
	8.12	100	Sh/Clst: ol blk, mic		066-1L
2388.00					067
	8.91	100	Sh/Clst: ol blk, mic		067-1L

Table 1 : Lithology description for well NOCS 7120/7-1

Depth unit of measure: m

Depth	Type		Lithology description	Trb	Sample
Int Cvd	TOC%	%			
2394.00					068
	7.98	100	Sh/Clst: ol blk, mic tr Ca : drk y brn to dsk y brn, dol		068-1L 068-2L
2400.00					069
	7.42	95	Sh/Clst: gy blk to ol blk, mic 5 Ca : drk y brn to dsk y brn, dol		069-1L 069-2L
2403.00					070
		50	Sh/Clst: gy blk to ol blk, mic		070-1L
		40	S/Sst : w to lt gy, l		070-2L
		10	Ca : drk y brn to dsk y brn, dol		070-3L
2409.00					071
	5.69	100	Sh/Clst: ol blk, mic tr Ca : drk y brn to dsk y brn, dol tr S/Sst : w to lt gy		071-1L 071-2L 071-3L
2449.00	ccp				072
	1.29	100	Sh/Clst: ol blk, pyr		072-1L
2484.00					073
	3.04	50	Sh/Clst: ol blk to drk gy		073-1L
		30	S/Sst : pl y brn, carb, f, cem		073-2L
		20	S/Sst : pl y brn, l		073-3L

Table 1 : Lithology description for well NOCS 7120/7-1

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	% Lithology description		
2490.00				074
	0.12	40 Sh/Clst: ol blk to drk gy 30 S/Sst : pl y brn, carb, f, cem 20 S/Sst : pl y brn, l 10 Kaolin : w		074-1L 074-2L 074-3L 074-4L
2496.00				075
	2.44	70 Sh/Clst: ol blk to drk gy 15 S/Sst : w to pl y brn, carb, f, cem 15 S/Sst : w to pl y brn, l		075-1L 075-2L 075-3L
2502.00				076
	2.61	40 Sh/Clst: ol blk to drk gy 40 S/Sst : w to pl y brn, l 20 S/Sst : w to pl y brn, carb, f, cem		076-1L 076-3L 076-2L
2511.00				077
	0.19	80 S/Sst : w to pl y brn, mic, cem, l 20 Sh/Clst: ol blk to drk gy		077-2L 077-1L
2517.00				078
	0.23	90 S/Sst : w to pl y brn, mic, cem, l 10 Sh/Clst: ol blk to drk gy tr Coal : blk		078-2L 078-1L 078-3L
2520.00				079
		70 S/Sst : w to pl y brn, mic, cem, l 20 Sh/Clst: ol blk to drk gy 10 Ca : drk y brn to dsk y brn, dol tr Coal : blk		079-2L 079-1L 079-3L 079-4L

Table 1 : Lithology description for well NOCS 7120/7-1

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	% Lithology description		
2526.00				080
	0.16	85 S/Sst : w to pl y brn, mic, cem, l 10 Sh/Clst: ol blk to drk gy 5 Ca : drk y brn to dsk y brn, dol tr Coal : blk		080-2L 080-1L 080-3L 080-4L
2532.00				081
	0.11	90 S/Sst : w to pl y brn, mic, cem, l 5 Sh/Clst: ol blk to drk gy 5 Coal : blk tr Ca : drk y brn to dsk y brn, dol		081-2L 081-1L 081-4L 081-3L
2538.00				082
	0.19	90 S/Sst : w to pl y brn, mic, cem, l 5 Sh/Clst: ol blk to drk gy 5 Coal : blk tr Ca : drk y brn to dsk y brn, dol		082-2L 082-1L 082-4L 082-3L
2544.00				083
		90 S/Sst : w to pl y brn, mic, cem, l 5 Sh/Clst: ol blk to drk gy 5 Coal : blk tr Ca : drk y brn to dsk y brn, dol		083-2L 083-1L 083-4L 083-3L
2550.00				084
	0.09	90 S/Sst : w to pl y brn, mic, cem, l 5 Sh/Clst: ol blk to drk gy 5 Coal : blk tr Ca : drk y brn to dsk y brn, dol		084-2L 084-1L 084-4L 084-3L

Table 1 : Lithology description for well NOCS 7120/7-1

Depth unit of measure: m

Depth	Type			Trb	Sample
Int Cvd	TOC%	%	Lithology description		
2556.00					085
	0.10	90	S/Sst : w to pl y brn, carb, cem		085-2L
		5	Sh/Clst: ol blk to drk gy		085-1L
		5	Coal : blk		085-3L
2562.00					086
	0.12	90	S/Sst : w to pl y brn, carb, cem		086-2L
		5	Sh/Clst: ol blk to drk gy		086-1L
		5	Coal : blk		086-3L
2568.00					087
		85	S/Sst : lt gy to pl y brn, carb, cem		087-2L
		10	Sltst : brn gy, carb, mic		087-4L
		5	Sh/Clst: ol blk to drk gy		087-1L
		tr	Coal : blk		087-3L
2574.00					088
	0.17	85	S/Sst : lt gy to pl y brn, carb, cem		088-2L
		10	Sltst : brn gy, carb, mic		088-4L
		5	Sh/Clst: ol blk to drk gy		088-1L
		tr	Coal : blk		088-3L
2580.00					089
	0.17	80	S/Sst : lt gy to pl y brn, carb, mic, cem		089-2L
		10	Sltst : brn gy, carb, mic		089-4L
		5	Sh/Clst: ol blk to drk gy		089-1L
		5	Coal : blk		089-3L

Table 1 : Lithology description for well NOCS 7120/7-1

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	%		
Lithology description				
2586.00				090
	0.15	65 S/Sst	: lt gy to pl y brn, carb, mic, cem	090-2L
		30 Sh/Clst:	ol blk to drk gy	090-1L
		5 Coal	: blk	090-3L
		tr Sltst	: brn gy, carb, mic	090-4L
2592.00				091
		65 S/Sst	: lt gy to pl y brn, carb, mic, cem	091-2L
		30 Sh/Clst:	ol blk to drk gy	091-1L
		5 Coal	: blk	091-3L
		tr Sltst	: brn gy, carb, mic	091-4L
2598.00				092
	2.48	50 Sh/Clst:	gy blk to drk gy	092-1L
		50 S/Sst	: lt gy to pl y brn, mic, cem	092-2L
		tr Coal	: blk	092-3L
		tr Sltst	: brn gy, mic	092-4L
2604.00				093
	2.49	50 Sh/Clst:	gy blk to drk gy	093-1L
		50 S/Sst	: lt gy to pl y brn, mic, cem	093-2L
		tr Coal	: blk	093-3L
		tr Sltst	: brn gy, mic	093-4L
2610.00				094
	0.14	75 S/Sst	: lt gy to pl y brn, mic, cem	094-2L
		25 Sh/Clst:	gy blk to drk gy	094-1L
		tr Coal	: blk	094-3L
		tr Sltst	: brn gy, mic	094-4L

Table 1 : Lithology description for well NOCS 7120/7-1

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	%		
Lithology description				
2616.00				095
		90 S/Sst : lt gy to pl y brn, mic, f, cem		095-2L
		10 Sh/Clst: gy blk to drk gy		095-1L
		tr Coal : blk		095-3L
2622.00				096
	0.11	90 S/Sst : lt gy to pl y brn, mic, f, cem		096-2L
		10 Sh/Clst: gy blk to drk gy		096-1L
		tr Coal : blk		096-3L
2628.00				097
	0.09	90 S/Sst : lt gy to pl y brn, mic, f, cem		097-2L
		10 Sh/Clst: gy blk to drk gy		097-1L
		tr Coal : blk		097-3L
2634.00				098
	0.15	90 S/Sst : lt gy to pl y brn, mic, f, cem		098-2L
		10 Sh/Clst: gy blk to drk gy		098-1L
		tr Coal : blk		098-3L
2640.00				099
		90 S/Sst : lt gy to pl y brn, mic, f, cem		099-2L
		5 Sh/Clst: gy blk to drk gy		099-1L
		5 Coal : blk		099-3L
2646.00				100
	0.12	90 S/Sst : lt gy to pl y brn, mic, f, cem		100-2L
		10 Sh/Clst: gy blk to drk gy		100-1L
		tr Coal : blk		100-3L

Table 1 : Lithology description for well NOCS 7120/7-1

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	% Lithology description		
2652.00				101
	0.06	90 S/Sst : lt gy to pl y brn, mic, f, cem 10 Sh/Clst: gy blk to drk gy tr Coal : blk		101-2L 101-1L 101-3L
2661.00				102
	2.38	90 Sh/Clst: ol blk 10 S/Sst : lt gy to pl y brn, mic, f, cem tr Coal : blk		102-1L 102-2L 102-3L
2670.00				103
	2.26	90 Sh/Clst: ol blk 10 S/Sst : lt gy to pl y brn, mic, f, cem tr Coal : blk		103-1L 103-2L 103-3L
2679.00				104
	2.34	90 Sh/Clst: ol blk 10 S/Sst : lt gy to pl y brn, mic, f, cem tr Coal : blk tr Other : pyr		104-1L 104-2L 104-3L 104-4L
2691.00				105
	2.19	90 Sh/Clst: ol blk 10 S/Sst : lt gy to pl y brn, mic, f, cem tr Coal : blk tr Other : pyr		105-1L 105-2L 105-3L 105-4L

Table 1 : Lithology description for well NOCS 7120/7-1

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	% Lithology description		
2700.00				106
	2.32	60 Sh/Clst: gy blk to ol blk 30 Marl : m gy to drk gy 10 S/Sst : lt gy, f, cem tr Cont : prp		106-1L 106-2L 106-3L 106-4L
2709.00				107
	2.29	60 Sh/Clst: gy blk to ol blk 30 Marl : m gy to drk gy 10 S/Sst : lt gy, f, cem tr Cont : prp		107-1L 107-2L 107-3L 107-4L
2718.00				108
	2.20	60 Sh/Clst: gy blk to ol blk 30 Marl : m gy to drk gy 10 S/Sst : lt gy, f, cem tr Cont : prp		108-1L 108-2L 108-3L 108-4L
2730.00				109
	0.69	60 Marl : m gy to drk gy 40 Sh/Clst: gy blk to ol blk tr S/Sst : lt gy, f, cem tr Cont : prp		109-2L 109-1L 109-3L 109-4L
2739.00				110
	0.24	90 Marl : m gy to drk gy 5 Sh/Clst: gy blk to ol blk 5 Coal : blk tr S/Sst : lt gy, f, cem tr Cont : prp		110-2L 110-1L 110-4L 110-3L 110-5L

Table 1 : Lithology description for well NOCS 7120/7-1

Depth unit of measure: m

Depth	Type		Lithology description	Trb	Sample
Int Cvd	TOC%	%			
2757.00					111
			50 Sh/Clst: gy blk to ol blk		111-1L
			40 Marl : m gy to drk gy		111-2L
			10 S/Sst : lt gy, f, cem		111-3L
			tr Coal : blk		111-4L
			tr Cont : prp, tar-ad		111-5L
2760.00					112
	2.37		90 Sh/Clst: gy blk to ol blk		112-1L
			10 S/Sst : lt gy, f, cem		112-3L
			tr Marl : m gy to drk gy		112-2L
			tr Cont : prp		112-4L
			tr Sh/Clst: gy red, mic		112-5L
2769.00					113
	2.27		90 Sh/Clst: gy blk to ol blk		113-1L
			10 S/Sst : lt gy, f, cem		113-3L
			tr Marl : m gy to drk gy		113-2L
			tr Cont : prp		113-4L
			tr Sh/Clst: gy red, mic		113-5L
2781.00					114
	2.19		50 Sh/Clst: gy blk to ol blk		114-1L
			50 S/Sst : w to lt gy, f, cem		114-2L
			tr Sh/Clst: gy red, mic		114-3L
			tr Coal : blk		114-4L
2790.00					115
			50 S/Sst : w to lt gy, f, cem		115-2L
			20 Sh/Clst: gy blk to ol blk		115-1L
	51.23		20 Coal : blk		115-3L
			10 Sltst : brn gy, mic		115-4L

Table 1 : Lithology description for well NOCS 7120/7-1

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	% Lithology description		
2799.00				116
	0.07	75 S/Sst : w to lt gy, f, cem		116-2L
	32.74	15 Coal : blk		116-3L
		5 Sh/Clst: gy blk to ol blk		116-1L
		5 Sltst : brn gy, mic		116-4L
2811.00				117
		70 Sh/Clst: gy blk to ol blk		117-1L
		30 S/Sst : w to lt gy, f, cem		117-2L
		tr Coal : blk		117-3L
		tr Cont : prp		117-4L
2817.00				118
	2.77	50 Sh/Clst: gy blk to ol blk		118-1L
		45 S/Sst : w to lt gy, f, cem		118-2L
		5 Ca : dsk y brn, dol		118-3L
		tr Coal : blk, prp		118-4L
2823.00				119
		50 Sh/Clst: gy blk to ol blk		119-1L
		45 S/Sst : w to lt gy, f, cem		119-2L
		5 Ca : dsk y brn, dol		119-3L
		tr Coal : blk, prp		119-4L
2832.00				120
	0.03	85 S/Sst : w to lt gy, f, cem		120-2L
		10 Sh/Clst: gy blk to ol blk		120-1L
		5 Sltst : brn gy		120-4L
		tr Ca : dsk y brn, dol		120-3L

Table 1 : Lithology description for well NOCS 7120/7-1

Depth unit of measure: m

<u>Depth</u>	<u>Type</u>		<u>Trb</u>	<u>Sample</u>
<u>Int Cvd</u>	<u>TOC%</u>	<u>%</u>	<u>Lithology description</u>	
2838.00				121
	0.05	75	S/Sst : w to lt gy, f, cem	121-2L
		20	Sh/Clst: gy blk to drk gy	121-1L
		5	Coal : blk	121-4L
		tr	Ca : dsk y brn, dol	121-3L

Table 2 : Rock-Eval table for well NOCS 7120/7-1

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
2001.00	cut	Sh/Clst: m gy to drk gy	1.42	3.88	0.57	6.81	2.85	136	20	5.3	0.27	432	001-1
2016.00	cut	S/Sst : lt gy to m gy	0.41	1.00	0.31	3.23	0.94	106	33	1.4	0.29	433	004-2
2025.00	cut	Sh/Clst: m gy to drk gy	0.47	2.09	0.54	3.87	2.92	72	18	2.6	0.18	436	006-1
2040.00	cut	S/Sst : lt gy to m gy	0.97	1.40	0.29	4.83	0.90	156	32	2.4	0.41	425	009-2
2052.00	cut	Sh/Clst: m gy to drk gy	0.43	2.04	0.47	4.34	2.64	77	18	2.5	0.17	437	011-1
2070.00	cut	S/Sst : lt gy to m gy	0.51	1.07	0.35	3.06	0.96	111	36	1.6	0.32	432	014-2
2082.00	cut	Sh/Clst: m gy to drk gy	0.44	2.02	0.57	3.54	2.70	75	21	2.5	0.18	437	016-1
2100.00	cut	S/Sst : lt gy to m gy	0.41	1.16	0.41	2.83	1.08	107	38	1.6	0.26	431	019-2
2112.00	cut	Sh/Clst: gy blk to drk gy	0.40	2.03	0.58	3.50	3.01	67	19	2.4	0.16	438	021-1
2130.00	cut	Sh/Clst: gy blk to m gy	0.47	2.00	0.55	3.64	2.74	73	20	2.5	0.19	438	024-1
2142.00	cut	Sh/Clst: gy blk to m gy	0.44	2.09	0.69	3.03	3.13	67	22	2.5	0.17	436	026-1
2160.00	cut	Sh/Clst: gy blk to m gy	0.49	1.90	0.71	2.68	2.74	69	26	2.4	0.21	439	029-1
2172.00	cut	Sh/Clst: gy blk to m gy	0.54	2.16	0.36	6.00	2.76	78	13	2.7	0.20	437	031-1
2184.00	cut	Sh/Clst: gy blk to drk gy	0.47	1.98	0.26	7.62	2.61	76	10	2.5	0.19	438	033-1
2190.00	cut	Sh/Clst: gy blk to drk gy	0.53	2.06	0.47	4.38	2.74	75	17	2.6	0.20	442	034-1

Table 2 : Rock-Eval table for well NOCS 7120/7-1

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
2196.00	cut	Sh/Clst: ol blk to drk gy	0.46	2.13	0.34	6.26	2.70	79	13	2.6	0.18	442	035-1
2202.00	cut	Sh/Clst: ol blk to drk gy	0.54	3.31	0.24	13.79	3.60	92	7	3.8	0.14	441	036-1
2208.00	cut	Sh/Clst: ol blk to drk gy	0.57	3.33	0.34	9.79	3.95	84	9	3.9	0.15	441	037-1
2214.00	cut	Sh/Clst: ol blk to drk gy	0.79	3.54	0.33	10.73	3.87	91	9	4.3	0.18	442	038-1
2220.00	cut	Sh/Clst: ol blk to drk gy	0.62	2.80	0.25	11.20	3.56	79	7	3.4	0.18	443	039-1
2226.00	cut	Sh/Clst: ol blk to drk gy	0.53	2.31	0.26	8.88	3.14	74	8	2.8	0.19	442	040-1
2232.00	cut	Sh/Clst: ol blk to drk gy	1.15	3.83	0.22	17.41	3.82	100	6	5.0	0.23	440	041-1
2238.00	cut	Sh/Clst: ol blk to drk gy	0.46	1.71	0.19	9.00	2.48	69	8	2.2	0.21	441	042-1
2244.00	cut	Sh/Clst: ol blk to drk gy	0.62	2.14	0.19	11.26	2.54	84	7	2.8	0.22	442	043-1
2250.00	cut	Sh/Clst: ol blk to drk gy	0.60	2.68	0.15	17.87	2.98	90	5	3.3	0.18	443	044-1
2256.00	cut	Sh/Clst: gy blk to ol blk	0.65	3.88	0.11	35.27	2.64	147	4	4.5	0.14	439	045-1
2262.00	cut	Sh/Clst: gy blk to ol blk	0.60	3.27	0.21	15.57	2.27	144	9	3.9	0.16	441	046-1
2268.00	cut	Sh/Clst: gy blk to ol blk	0.63	3.42	0.23	14.87	2.46	139	9	4.1	0.16	442	047-1
2274.00	cut	Sh/Clst: gy blk to ol blk	0.85	5.29	0.34	15.56	2.94	180	12	6.1	0.14	441	048-1
2280.00	cut	Sh/Clst: gy blk to ol blk	1.34	7.87	0.01	787.00	3.30	238	-	9.2	0.15	438	049-1

Table 2 : Rock-Eval table for well NOCS 7120/7-1

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
2286.00	cut	Sh/Clst: gy blk to ol blk	1.02	5.86	0.06	97.67	2.77	212	2	6.9	0.15	441	050-1
2292.00	cut	Sh/Clst: gy blk to ol blk	1.66	10.40	0.24	43.33	3.64	286	7	12.1	0.14	440	051-1
2298.00	cut	Sh/Clst: gy blk to ol blk	1.46	10.21	0.32	31.91	3.66	279	9	11.7	0.13	440	052-1
2304.00	cut	Sh/Clst: gy blk to ol blk	1.73	11.22	0.49	22.90	3.87	290	13	13.0	0.13	442	053-1
2310.00	cut	Sh/Clst: gy blk to ol blk	1.60	11.05	0.57	19.39	3.71	298	15	12.7	0.13	440	054-1
2316.00	cut	Sh/Clst: gy blk to ol blk	1.61	10.25	0.56	18.30	3.51	292	16	11.9	0.14	441	055-1
2322.00	cut	Sh/Clst: gy blk to ol blk	1.72	10.82	0.58	18.66	3.60	301	16	12.5	0.14	440	056-1
2328.00	cut	Sh/Clst: gy blk to ol blk	1.73	11.01	0.63	17.48	3.49	315	18	12.7	0.14	442	057-1
2334.00	cut	Sh/Clst: gy blk to ol blk	1.68	10.09	0.65	15.52	3.47	291	19	11.8	0.14	440	058-1
2340.00	cut	Sh/Clst: gy blk to ol blk	1.59	9.66	0.69	14.00	3.33	290	21	11.3	0.14	441	059-1
2346.00	cut	Sh/Clst: gy blk to ol blk	1.74	9.78	0.58	16.86	3.58	273	16	11.5	0.15	440	060-1
2352.00	cut	Sh/Clst: ol blk	1.76	10.01	0.63	15.89	3.67	273	17	11.8	0.15	440	061-1
2358.00	cut	Sh/Clst: ol blk	2.25	12.55	0.93	13.49	4.67	269	20	14.8	0.15	441	062-1
2364.00	cut	Sh/Clst: ol blk	2.78	14.23	0.98	14.52	5.66	251	17	17.0	0.16	438	063-1
2370.00	cut	Sh/Clst: ol blk	2.56	14.18	1.07	13.25	5.66	251	19	16.7	0.15	439	064-1

Table 2 : Rock-Eval table for well NOCS 7120/7-1

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
2376.00	cut	Sh/Clst: ol blk	2.54	14.41	1.12	12.87	6.56	220	17	17.0	0.15	438	065-1
2382.00	cut	Sh/Clst: ol blk	3.78	19.45	0.75	25.93	8.12	240	9	23.2	0.16	439	066-1
2388.00	cut	Sh/Clst: ol blk	3.78	22.33	0.86	25.97	8.91	251	10	26.1	0.14	438	067-1
2394.00	cut	Sh/Clst: ol blk	3.23	20.35	1.05	19.38	7.98	255	13	23.6	0.14	439	068-1
2400.00	cut	Sh/Clst: gy blk to ol blk	2.84	19.08	0.91	20.97	7.42	257	12	21.9	0.13	442	069-1
2409.00	cut	Sh/Clst: ol blk	2.09	13.54	0.89	15.21	5.69	238	16	15.6	0.13	442	071-1
2449.00	ccp	Sh/Clst: ol blk	0.27	1.99	0.01	199.00	1.29	154	1	2.3	0.12	442	072-1
2484.00	cut	Sh/Clst: ol blk to drk gy	0.72	4.00	0.14	28.57	3.04	132	5	4.7	0.15	442	073-1
2490.00	cut	S/Sst : pl y brn	0.11	0.15	0.23	0.65	0.12	125	192	0.3	0.42	395	074-2
2496.00	cut	Sh/Clst: ol blk to drk gy	0.60	2.38	0.27	8.81	2.44	98	11	3.0	0.20	440	075-1
2502.00	cut	Sh/Clst: ol blk to drk gy	1.05	3.23	0.26	12.42	2.61	124	10	4.3	0.25	442	076-1
2511.00	cut	S/Sst : w to pl y brn	0.85	0.36	0.24	1.50	0.19	189	126	1.2	0.70	418	077-2
2517.00	cut	S/Sst : w to pl y brn	1.56	0.40	0.27	1.48	0.23	174	117	2.0	0.80	372	078-2
2526.00	cut	S/Sst : w to pl y brn	0.51	0.26	0.22	1.18	0.16	163	138	0.8	0.66	424	080-2
2532.00	cut	S/Sst : w to pl y brn	0.19	0.12	0.13	0.92	0.11	109	118	0.3	0.61	387	081-2

Table 2 : Rock-Eval table for well NOCS 7120/7-1

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
2538.00	cut	S/Sst : w to pl y brn	0.35	0.41	0.13	3.15	0.19	216	68	0.8	0.46	434	082-2
2550.00	cut	S/Sst : w to pl y brn	0.04	0.18	0.02	9.00	0.09	200	22	0.2	0.18	437	084-2
2556.00	cut	S/Sst : w to pl y brn	0.01	0.01	0.01	1.00	0.10	10	10	-	0.50	238	085-2
2562.00	cut	S/Sst : w to pl y brn	0.03	0.10	0.01	10.00	0.12	83	8	0.1	0.23	438	086-2
2574.00	cut	S/Sst : lt gy to pl y brn	0.06	0.17	0.01	17.00	0.17	100	6	0.2	0.26	441	088-2
2580.00	cut	S/Sst : lt gy to pl y brn	0.31	0.24	0.11	2.18	0.17	141	65	0.6	0.56	383	089-2
2586.00	cut	S/Sst : lt gy to pl y brn	0.12	0.21	0.06	3.50	0.15	140	40	0.3	0.36	441	090-2
2598.00	cut	Sh/Clst: gy blk to drk gy	0.51	2.59	0.10	25.90	2.48	104	4	3.1	0.16	440	092-1
2604.00	cut	Sh/Clst: gy blk to drk gy	0.53	2.64	0.26	10.15	2.49	106	10	3.2	0.17	440	093-1
2610.00	cut	S/Sst : lt gy to pl y brn	0.01	0.07	0.01	7.00	0.14	50	7	0.1	0.13	441	094-2
2622.00	cut	S/Sst : lt gy to pl y brn	0.02	0.06	0.03	2.00	0.11	55	27	0.1	0.25	442	096-2
2628.00	cut	S/Sst : lt gy to pl y brn	0.01	0.15	0.01	15.00	0.09	167	11	0.2	0.06	416	097-2
2634.00	cut	S/Sst : lt gy to pl y brn	0.06	0.12	0.03	4.00	0.15	80	20	0.2	0.33	442	098-2
2646.00	cut	S/Sst : lt gy to pl y brn	0.05	0.10	0.01	10.00	0.12	83	8	0.2	0.33	441	100-2
2652.00	cut	S/Sst : lt gy to pl y brn	0.01	0.03	0.01	3.00	0.06	50	17	-	0.25	403	101-2

Table 2 : Rock-Eval table for well NOCS 7120/7-1

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
2661.00	cut	Sh/Clst: ol blk	0.46	2.35	0.10	23.50	2.38	99	4	2.8	0.16	441	102-1
2670.00	cut	Sh/Clst: ol blk	0.45	2.29	0.17	13.47	2.26	101	8	2.7	0.16	440	103-1
2679.00	cut	Sh/Clst: ol blk	0.51	2.70	0.16	16.88	2.34	115	7	3.2	0.16	441	104-1
2691.00	cut	Sh/Clst: ol blk	0.50	2.25	0.23	9.78	2.19	103	11	2.8	0.18	441	105-1
2700.00	cut	Sh/Clst: gy blk to ol blk	0.56	2.42	0.16	15.13	2.32	104	7	3.0	0.19	439	106-1
2709.00	cut	Sh/Clst: gy blk to ol blk	0.58	2.52	0.23	10.96	2.29	110	10	3.1	0.19	439	107-1
2718.00	cut	Sh/Clst: gy blk to ol blk	0.61	2.56	0.19	13.47	2.20	116	9	3.2	0.19	439	108-1
2730.00	cut	Marl : m gy to drk gy	0.55	0.55	0.34	1.62	0.69	80	49	1.1	0.50	389	109-2
2739.00	cut	Marl : m gy to drk gy	0.13	0.13	0.29	0.45	0.24	54	121	0.3	0.50	352	110-2
2760.00	cut	Sh/Clst: gy blk to ol blk	0.72	2.58	0.20	12.90	2.37	109	8	3.3	0.22	439	112-1
2769.00	cut	Sh/Clst: gy blk to ol blk	0.01	0.01	0.01	1.00	0.01	100	100	-	0.50	443	113-1
2781.00	cut	Sh/Clst: gy blk to ol blk	0.54	2.21	0.24	9.21	2.19	101	11	2.8	0.20	438	114-1
2790.00	cut	Coal : blk	8.57	132.24	1.63	81.13	51.23	258	3	140.8	0.06	443	115-3
2799.00	cut	S/Sst : w to lt gy	0.04	0.03	0.05	0.60	0.07	43	71	0.1	0.57	473	116-2
2799.00	cut	Coal : blk	5.78	89.29	1.57	56.87	32.74	273	5	95.1	0.06	444	116-3

Table 2 : Rock-Eval table for well NOCS 7120/7-1

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
2817.00	cut	Sh/Clst: gy blk to ol blk	0.63	2.88	0.22	13.09	2.77	104	8	3.5	0.18	442	118-1
2832.00	cut	S/Sst : w to lt gy	0.02	0.02	0.09	0.22	0.03	67	300	-	0.50	421	120-2
2838.00	cut	S/Sst : w to lt gy	0.11	0.08	0.08	1.00	0.05	160	160	0.2	0.58	304	121-2

Table 3 a: Weight of EOM and Chromatographic Fraction for well NOCS 7120/7-1

Depth unit of measure: m

Depth	Typ	Lithology	Rock Extracted (g)	EOM (mg)	Sat (mg)	Aro (mg)	Asph (mg)	NSO (mg)	HC (mg)	Non-HC (mg)	TOC(e) (%)	Sample
2001.00	cut	Sh/Clst: m gy to drk gy	1.5	9.7	3.6	1.0	0.6	4.5	4.6	5.1	2.92	001-1L
2232.00	cut	Sh/Clst: ol blk to drk gy	2.2	7.0	1.6	1.0	1.0	3.5	2.5	4.5	3.36	041-1L
2256.00	cut	Sh/Clst: gy blk to ol blk	4.4	6.8	1.0	0.8	1.0	4.0	1.8	5.0	2.74	045-1L
2274.00	cut	Sh/Clst: gy blk to ol blk	2.3	6.2	1.2	2.8	1.0	1.2	4.0	2.2	2.96	048-1L
2280.00	cut	Sh/Clst: gy blk to ol blk	4.7	13.8	2.4	2.2	2.4	6.8	4.6	9.2	3.60	049-1L
2310.00	cut	Sh/Clst: gy blk to ol blk	5.1	19.2	3.1	2.8	4.4	8.9	5.9	13.3	4.27	054-1L
2328.00	cut	Sh/Clst: gy blk to ol blk	8.5	30.8	5.3	3.6	6.0	15.9	8.9	21.9	4.11	057-1L
2352.00	cut	Sh/Clst: ol blk	10.4	39.9	7.0	4.8	6.7	21.4	11.8	28.1	4.55	061-1L
2364.00	cut	Sh/Clst: ol blk	10.4	64.2	12.1	8.4	14.2	29.5	20.5	43.7	6.73	063-1L
2400.00	cut	Sh/Clst: gy blk to ol blk	9.5	64.4	9.5	9.6	19.6	25.7	19.1	45.3	9.69	069-1L
2449.00	ccp	Sh/Clst: ol blk	10.0	6.2	1.2	1.3	1.3	2.4	2.5	3.7	1.43	072-1L
2511.00	cut	S/Sst : w to pl y brn	4.8	9.4	2.9	0.6	0.6	5.3	3.5	5.9	0.50	077-2L
2517.00	cut	S/Sst : w to pl y brn	4.9	11.1	5.8	1.0	0.7	3.7	6.7	4.4	0.45	078-2L
2526.00	cut	S/Sst : w to pl y brn	5.2	3.1	1.7	0.5	0.1	0.8	2.2	0.9	0.25	080-2L

Table 3 a: Weight of EOM and Chromatographic Fraction for well NOCS 7120/7-1

Depth unit of measure: m

Depth	Typ	Lithology	Rock Extracted (g)	EOM (mg)	Sat (mg)	Aro (mg)	Asph (mg)	NSO (mg)	HC (mg)	Non-HC (mg)	TOC(e) (%)	Sample
2538.00	cut	S/Sst : w to pl y brn	4.1	2.5	1.4	0.6	0.4	0.1	2.0	0.5	0.31	082-2L
2604.00	com	Composite sample - see table 3 e	11.8	9.8	2.5	1.8	2.3	3.2	4.3	5.5	2.20	122-0B
2691.00	com	Composite sample - see table 3 e	9.8	8.6	2.3	1.6	2.0	2.8	3.8	4.8	2.65	123-0B
2781.00	com	Composite sample - see table 3 e	9.6	14.3	4.2	2.2	1.3	6.7	6.4	7.9	2.41	124-0B
2799.00	com	Composite sample - see table 3 e	2.1	34.1	1.8	3.5	24.1	4.7	5.3	28.8	27.50	125-0B

Table 3 b: Concentration of EOM and Chromatographic Fraction (wt ppm rock) for well NOCS 7120/7-1

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
2001.00	cut	Sh/Clst: m gy to drk gy	6298	2337	623	389	2948	2961	3337	001-1L
2232.00	cut	Sh/Clst: ol blk to drk gy	3196	712	438	456	1589	1150	2045	041-1L
2256.00	cut	Sh/Clst: gy blk to ol blk	1552	219	191	228	913	410	1141	045-1L
2274.00	cut	Sh/Clst: gy blk to ol blk	2731	528	1215	440	546	1744	986	048-1L
2280.00	cut	Sh/Clst: gy blk to ol blk	2911	506	455	506	1443	962	1949	049-1L
2310.00	cut	Sh/Clst: gy blk to ol blk	3750	609	539	859	1742	1148	2601	054-1L
2328.00	cut	Sh/Clst: gy blk to ol blk	3636	623	425	708	1879	1048	2587	057-1L
2352.00	cut	Sh/Clst: ol blk	3836	669	461	644	2061	1130	2705	061-1L
2364.00	cut	Sh/Clst: ol blk	6173	1165	807	1365	2834	1973	4200	063-1L
2400.00	cut	Sh/Clst: gy blk to ol blk	6757	994	1007	2056	2698	2002	4755	069-1L
2449.00	ccp	Sh/Clst: ol blk	621	120	132	130	238	252	368	072-1L
2511.00	cut	S/Sst : w to pl y brn	1942	595	123	123	1099	719	1223	077-2L
2517.00	cut	S/Sst : w to pl y brn	2251	1168	194	141	746	1363	888	078-2L
2526.00	cut	S/Sst : w to pl y brn	592	321	91	19	160	413	179	080-2L

Table 3 b: Concentration of EOM and Chromatographic Fraction (wt ppm rock) for well NOCS 7120/7-1

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
2538.00	cut	S/Sst : w to pl y brn	606	349	145	97	14	495	111	082-2L
2604.00	com	Composite sample - see table 3 e	829	213	152	194	269	365	464	122-0B
2691.00	com	Composite sample - see table 3 e	876	232	159	203	281	391	485	123-0B
2781.00	com	Composite sample - see table 3 e	1492	438	225	135	693	663	828	124-0B
2799.00	com	Composite sample - see table 3 e	16009	845	1633	11314	2215	2478	13530	125-0B

Table 3 c: Concentration of EOM and Chromatographic Fraction (mg/g TOC(e)) for well NOCS 7120/7-1

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
2001.00	cut	Sh/Clst: m gy to drk gy	215.71	80.06	21.35	13.34	100.96	101.41	114.30	001-1L
2232.00	cut	Sh/Clst: ol blk to drk gy	95.13	21.20	13.05	13.59	47.29	34.25	60.88	041-1L
2256.00	cut	Sh/Clst: gy blk to ol blk	56.66	8.00	7.00	8.33	33.33	15.00	41.66	045-1L
2274.00	cut	Sh/Clst: gy blk to ol blk	92.27	17.86	41.08	14.88	18.45	58.94	33.34	048-1L
2280.00	cut	Sh/Clst: gy blk to ol blk	80.87	14.06	12.66	14.06	40.08	26.72	54.15	049-1L
2310.00	cut	Sh/Clst: gy blk to ol blk	87.82	14.27	12.62	20.13	40.80	26.90	60.93	054-1L
2328.00	cut	Sh/Clst: gy blk to ol blk	88.48	15.17	10.34	17.24	45.73	25.51	62.97	057-1L
2352.00	cut	Sh/Clst: ol blk	84.32	14.71	10.14	14.16	45.31	24.85	59.47	061-1L
2364.00	cut	Sh/Clst: ol blk	91.72	17.32	12.00	20.29	42.12	29.32	62.41	063-1L
2400.00	cut	Sh/Clst: gy blk to ol blk	69.74	10.27	10.40	21.22	27.85	20.66	49.08	069-1L
2449.00	ccp	Sh/Clst: ol blk	43.44	8.41	9.25	9.11	16.68	17.66	25.79	072-1L
2511.00	cut	S/Sst : w to pl y brn	388.43	119.01	24.79	24.79	219.83	143.80	244.63	077-2L
2517.00	cut	S/Sst : w to pl y brn	500.34	259.63	43.27	31.55	165.88	302.91	197.43	078-2L
2526.00	cut	S/Sst : w to pl y brn	237.09	128.49	36.71	7.65	64.24	165.20	71.89	080-2L

Table 3 c: Concentration of EOM and Chromatographic Fraction (mg/g TOC(e)) for well NOCS 7120/7-1

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
2538.00	cut	S/Sst : w to pl y brn	195.74	112.75	46.98	31.32	4.70	159.72	36.02	082-2L
2604.00	com	Composite sample - see table 3 e	37.72	9.70	6.93	8.85	12.24	16.63	21.09	122-0B
2691.00	com	Composite sample - see table 3 e	33.08	8.77	6.00	7.69	10.62	14.77	18.31	123-0B
2781.00	com	Composite sample - see table 3 e	61.94	18.19	9.36	5.63	28.76	27.55	34.39	124-0B
2799.00	com	Composite sample - see table 3 e	58.22	3.07	5.94	41.14	8.06	9.01	49.20	125-0B

Table 3 d: Composition of material extracted from the rock (%) for well NOCS 7120/7-1

Depth unit of measure: m

Depth	Typ	Lithology	Sat	Aro	Asph	NSO	HC	Non-HC	Sat	HC	Sample
			EOM	EOM	EOM	EOM	EOM	EOM	EOM	Aro	
2001.00	cut	Sh/Clst: m gy to drk gy	37.11	9.90	6.19	46.80	47.01	52.99	375.00	88.72	001-1L
2232.00	cut	Sh/Clst: ol blk to drk gy	22.29	13.71	14.29	49.71	36.00	64.00	162.50	56.25	041-1L
2256.00	cut	Sh/Clst: gy blk to ol blk	14.12	12.35	14.71	58.82	26.47	73.53	114.29	36.00	045-1L
2274.00	cut	Sh/Clst: gy blk to ol blk	19.35	44.52	16.13	20.00	63.87	36.13	43.48	176.79	048-1L
2280.00	cut	Sh/Clst: gy blk to ol blk	17.39	15.65	17.39	49.57	33.04	66.96	111.11	49.35	049-1L
2310.00	cut	Sh/Clst: gy blk to ol blk	16.25	14.38	22.92	46.46	30.63	69.38	113.04	44.14	054-1L
2328.00	cut	Sh/Clst: gy blk to ol blk	17.14	11.69	19.48	51.69	28.83	71.17	146.67	40.51	057-1L
2352.00	cut	Sh/Clst: ol blk	17.44	12.03	16.79	53.73	29.47	70.53	145.00	41.79	061-1L
2364.00	cut	Sh/Clst: ol blk	18.88	13.08	22.12	45.92	31.96	68.04	144.29	46.98	063-1L
2400.00	cut	Sh/Clst: gy blk to ol blk	14.72	14.91	30.43	39.94	29.63	70.37	98.75	42.10	069-1L
2449.00	ccp	Sh/Clst: ol blk	19.35	21.29	20.97	38.39	40.65	59.35	90.91	68.48	072-1L
2511.00	cut	S/Sst : w to pl y brn	30.64	6.38	6.38	56.60	37.02	62.98	480.00	58.78	077-2L
2517.00	cut	S/Sst : w to pl y brn	51.89	8.65	6.31	33.15	60.54	39.46	600.00	153.42	078-2L
2526.00	cut	S/Sst : w to pl y brn	54.19	15.48	3.23	27.10	69.68	30.32	350.00	229.79	080-2L

Table 3 d: Composition of material extracted from the rock (%) for well NOCS 7120/7-1

Depth unit of measure: m

Depth	Typ	Lithology	Sat	Aro	Asph	NSO	HC	Non-HC	Sat	HC	Sample
			EOM	EOM	EOM	EOM	EOM	EOM	EOM	Aro	
2538.00	cut	S/Sst : w to pl y brn	57.60	24.00	16.00	2.40	81.60	18.40	240.00	443.48	082-2L
2604.00	com	Composite sample - see table 3 e	25.71	18.37	23.47	32.45	44.08	55.92	140.00	78.83	122-0B
2691.00	com	Composite sample - see table 3 e	26.51	18.14	23.26	32.09	44.65	55.35	146.15	80.67	123-0B
2781.00	com	Composite sample - see table 3 e	29.37	15.10	9.09	46.43	44.48	55.52	194.44	80.10	124-0B
2799.00	com	Composite sample - see table 3 e	5.28	10.21	70.67	13.84	15.48	84.52	51.72	18.32	125-0B

Depth unit of measure: m

NOTE: Depths shown in tables 3 a to d correspond to the composite samples' lower depth.

<u>Upper depth</u>	<u>Lower depth</u>	<u>Typ</u>	<u>Sample</u>	<u>Depth</u>	<u>Typ</u>	<u>Lithology</u>	<u>Sample</u>
2598.00	2604.00	com	122-0B is composed of:	2598.00	cut	Sh/Clst: gy blk to drk gy	092-1L
				2604.00	cut	Sh/Clst: gy blk to drk gy	093-1L
2661.00	2691.00	com	123-0B is composed of:	2661.00	cut	Sh/Clst: ol blk	102-1L
				2670.00	cut	Sh/Clst: ol blk	103-1L
				2679.00	cut	Sh/Clst: ol blk	104-1L
				2691.00	cut	Sh/Clst: ol blk	105-1L
2760.00	2781.00	com	124-0B is composed of:	2760.00	cut	Sh/Clst: gy blk to ol blk	112-1L
				2769.00	cut	Sh/Clst: gy blk to ol blk	113-1L
				2781.00	cut	Sh/Clst: gy blk to ol blk	114-1L
2790.00	2799.00	com	125-0B is composed of:	2790.00	cut	Coal : blk	115-3L
				2799.00	cut	Coal : blk	116-3L

Table 4 : Saturated Hydrocarbon Ratios for well NOCS 7120/7-1

Depth unit of measure: m

Depth	Typ	Lithology	Pristane	Pristane	Pristane + Phytane	Phytane	CPI	Sample
			nC17	Phytane	nC17 + nC18	nC18		
2001.00	cut	Sh/Clst: m gy to drk gy	1.00	0.81	0.71	0.57	1.23	001-1L
2232.00	cut	Sh/Clst: ol blk to drk gy	0.80	0.38	0.45	0.39	1.42	041-1L
2256.00	cut	Sh/Clst: gy blk to ol blk	1.22	2.05	0.80	0.47	1.33	045-1L
2274.00	cut	Sh/Clst: gy blk to ol blk	1.25	2.74	0.89	0.50	1.32	048-1L
2280.00	cut	Sh/Clst: gy blk to ol blk	1.41	3.03	1.04	0.59	1.28	049-1L
2310.00	cut	Sh/Clst: gy blk to ol blk	1.43	2.69	1.08	0.65	1.22	054-1L
2328.00	cut	Sh/Clst: gy blk to ol blk	1.22	1.38	0.93	0.70	1.19	057-1L
2352.00	cut	Sh/Clst: ol blk	1.31	1.78	0.99	0.70	1.02	061-1L
2364.00	cut	Sh/Clst: ol blk	1.46	1.90	1.17	0.84	1.07	063-1L
2400.00	cut	Sh/Clst: gy blk to ol blk	1.30	2.55	0.99	0.62	1.10	069-1L
2449.00	ccp	Sh/Clst: ol blk	0.40	2.13	0.31	0.21	1.22	072-1L
2511.00	cut	S/Sst : w to pl y brn	0.93	1.71	0.66	0.44	1.13	077-2L
2517.00	cut	S/Sst : w to pl y brn	0.98	1.54	0.68	0.46	1.13	078-2L
2526.00	cut	S/Sst : w to pl y brn	0.82	1.58	0.62	0.45	1.09	080-2L

Table 4 : Saturated Hydrocarbon Ratios for well NOCS 7120/7-1

Depth unit of measure: m

Depth	Typ	Lithology	Pristane	Pristane	Pristane + Phytane	Phytane	CPI	Sample
			nC17	Phytane	nC17 + nC18	nC18		
2538.00	cut	S/Sst : w to pl y brn	0.83	1.62	0.63	0.45	1.32	082-2L
2604.00	com	bulk	0.99	2.72	0.73	0.43	1.37	122-0B
2691.00	com	bulk	1.12	2.71	0.81	0.46	1.31	123-0B
2781.00	com	bulk	0.88	1.86	0.73	0.55	1.31	124-0B
2799.00	com	bulk	0.42	3.38	0.29	0.14	1.00	125-0B

Table 5 : Aromatic Hydrocarbon Ratios for well NOCS 7120/7-1

Depth unit of measure: m

Depth	Typ	Lithology	MNR	DMNR	BPhR	2/1MP	MPI1	MPI2	DBT/P	4/1MDBT	(3+2)/1MDBT	Sample
2001.00	cut	Sh/Clst: m gy to drk gy	-	-	-	0.63	0.87	0.75	-	-	-	001-1L
2232.00	cut	Sh/Clst: ol blk to drk gy	-	-	-	0.74	0.89	0.82	-	-	-	041-1L
2256.00	cut	Sh/Clst: gy blk to ol blk	-	-	-	0.75	0.72	0.69	0.15	2.08	1.31	045-1L
2274.00	cut	Sh/Clst: gy blk to ol blk	-	-	-	0.73	0.70	0.67	0.11	1.43	1.00	048-1L
2280.00	cut	Sh/Clst: gy blk to ol blk	-	-	-	0.77	0.68	0.65	0.24	2.69	1.27	049-1L
2310.00	cut	Sh/Clst: gy blk to ol blk	-	-	-	0.77	0.69	0.66	0.17	3.10	1.21	054-1L
2328.00	cut	Sh/Clst: gy blk to ol blk	-	-	-	0.72	0.80	0.78	0.20	2.77	0.84	057-1L
2352.00	cut	Sh/Clst: ol blk	-	-	-	0.69	0.74	0.70	0.25	3.60	0.82	061-1L
2364.00	cut	Sh/Clst: ol blk	0.81	-	0.09	0.70	0.72	0.69	0.47	4.89	1.11	063-1L
2400.00	cut	Sh/Clst: gy blk to ol blk	0.92	1.68	0.11	0.71	0.69	0.66	0.45	4.10	1.27	069-1L
2449.00	ccp	Sh/Clst: ol blk	-	-	-	1.19	0.86	0.94	0.16	27.30	4.35	072-1L
2511.00	cut	S/Sst : w to pl y brn	-	-	-	0.86	0.82	0.77	-	2.82	1.36	077-2L
2517.00	cut	S/Sst : w to pl y brn	-	-	-	1.05	1.00	0.94	-	-	-	078-2L
2526.00	cut	S/Sst : w to pl y brn	-	-	-	0.82	0.90	0.79	-	-	-	080-2L
2538.00	cut	S/Sst : w to pl y brn	-	-	-	0.78	0.96	0.80	-	-	-	082-2L

Table 5 : Aromatic Hydrocarbon Ratios for well NOCS 7120/7-1

Depth unit of measure: m

Depth	Typ	Lithology	MNR	DMNR	BPhR	2/1MP	MPI1	MPI2	DBT/P	4/1MDBT	(3+2)/1MDBT	Sample
2604.00	com	bulk	-	-	-	0.79	0.69	0.67	0.20	2.64	1.00	122-0B
2691.00	com	bulk	-	-	-	0.82	0.71	0.71	0.16	2.30	1.00	123-0B
2781.00	com	bulk	-	1.91	-	0.79	0.70	0.65	-	1.36	0.93	124-0B
2799.00	com	bulk	-	-	-	0.82	0.61	0.66	0.11	2.74	1.10	125-0B

Table 6 : Thermal Maturity Data for well NOCS 7120/7-1

Depth unit of measure: m

Depth	Typ Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation	Spore Fluorescence Colour	SCI	T _{max} (°C)	Sample
2001.00	cut Sh/Clst: m gy to drk gy	-	-	-	-	5	432	001-1L
2007.00	cut bulk	0.48	31	0.07	-	-	-	002-0B
2058.00	cut bulk	0.50	32	0.05	-	-	-	012-0B
2118.00	cut bulk	0.50	33	0.05	-	-	-	022-0B
2166.00	cut bulk	0.50	30	0.03	-	-	-	030-0B
2214.00	cut bulk	0.52	17	0.03	-	-	-	038-0B
2232.00	cut Sh/Clst: ol blk to drk gy	-	-	-	-	NDP	440	041-1L
2268.00	cut bulk	0.54	31	0.07	-	-	-	047-0B
2274.00	cut Sh/Clst: gy blk to ol blk	-	-	-	-	NDP	441	048-1L
2280.00	cut Sh/Clst: gy blk to ol blk	-	-	-	-	NDP	438	049-1L
2310.00	cut Sh/Clst: gy blk to ol blk	-	-	-	-	6.5 - 7 ?	440	054-1L
2316.00	cut bulk	0.53	21	0.05	-	-	-	055-0B
2328.00	cut Sh/Clst: gy blk to ol blk	-	-	-	-	6.5 - 7 ?	442	057-1L
2352.00	cut Sh/Clst: ol blk	-	-	-	-	NDP	440	061-1L

Table 6 : Thermal Maturity Data for well NOCS 7120/7-1

Depth unit of measure: m

Depth	Typ Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation	Spore Fluorescence Colour	SCI	T _{max} (°C)	Sample
2364.00	cut bulk	0.56	19	0.03	-	-	-	063-0B
2400.00	cut Sh/Clst: gy blk to ol blk	-	-	-	-	NDP	442	069-1L
2409.00	cut bulk	0.58	34	0.04	-	-	-	071-0B
2449.00	ccp bulk	0.58	8	0.03	-	-	-	072-0B
2484.00	cut Sh/Clst: ol blk to drk gy	-	-	-	-	6 ?	442	073-1L
2496.00	cut bulk	0.62	21	0.04	-	-	-	075-0B
2556.00	cut bulk	0.63	18	0.03	-	-	-	085-0B
2604.00	cut bulk	0.65	13	0.05	-	-	-	093-0B
2652.00	cut bulk	0.66	23	0.05	-	-	-	101-0B
2679.00	cut Sh/Clst: ol blk	-	-	-	-	7 ?	441	104-1L
2709.00	cut bulk	0.70	22	0.07	-	-	-	107-0B
2760.00	cut bulk	0.71	20	0.07	-	-	-	112-0B
2799.00	cut bulk	0.81	30	0.07	-	-	-	116-0B
2838.00	cut bulk	0.77	31	0.05	-	-	-	121-0B

Table 6 : Thermal Maturity Data for well NOCS 7120/7-1

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Depth unit of measure: m

Depth	Typ	Lithology	Vitrinite Reflectance	Number of Readings	Standard Deviation	Spore Fluorescence	SCI
Tmax	Sample		(%)			Colour	
(°C)							
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Table 7 : Visual Kerogen Composition Data for well NOCS 7120/7-1

Depth unit of measure: m

Depth	Typ	Lithology	LIP %	A m r L t	L i p / P o p D e l	S u t P o l l	C R e s i n e	D A l g a l	A n c f i l t	B i t L	I N E R T %	F u s i n	S e n t F u e t	M i c r o i n	S c l e r o I	V I T R %	T e l l i n	C o l l i n	V i t D e t	A m o r V	B i t V	Sample
2001.00	cut	Sh/Clst: m gy to drk gy	10	*	**						40	*	**	*		50	*	*	*			001-1L
2232.00	cut	Sh/Clst: ol blk to drk gy	5	*							15		*			80			*	*		041-1L
2274.00	cut	Sh/Clst: gy blk to ol blk	15	*							5		*			80		**	*			048-1L
2280.00	cut	Sh/Clst: gy blk to ol blk	15	*							5		*			80		**	*			049-1L
2310.00	cut	Sh/Clst: gy blk to ol blk	40	**	*			?			10		*			50			*	*		054-1L
2328.00	cut	Sh/Clst: gy blk to ol blk	40	**	*						10		*			50			*	*		057-1L
2352.00	cut	Sh/Clst: ol blk	25	*							10	*	*			65			*	*		061-1L
2400.00	cut	Sh/Clst: gy blk to ol blk	10	*							20	*	*			70			*	*		069-1L
2484.00	cut	Sh/Clst: ol blk to drk gy	10	*	*						20	*	*			70			*	*		073-1L
2679.00	cut	Sh/Clst: ol blk	10	*	*						25	*	*			65		**	*			104-1L

Table 8 : Pyrolysis GC Data (S2 peak) as Percentage of Total Area for Well NOCS 7120/7-1

Depth unit of measure: m

Depth	Typ	Lithology	C1	C2-C5	C6-C14	C15+	S2 from Rock-Eval	Sample
2001.00	cut	Sh/Clst: m gy to drk gy	7.07	19.20	41.13	32.60	3.88	001-1L
2232.00	cut	Sh/Clst: ol blk to drk gy	7.60	14.51	37.09	40.80	3.83	041-1L
2256.00	cut	Sh/Clst: gy blk to ol blk	6.67	12.50	37.20	43.63	3.88	045-1L
2274.00	cut	Sh/Clst: gy blk to ol blk	7.65	17.15	38.27	36.93	5.29	048-1L
2280.00	cut	Sh/Clst: gy blk to ol blk	4.98	10.90	29.42	54.70	7.87	049-1L
2310.00	cut	Sh/Clst: gy blk to ol blk	4.82	6.78	29.99	58.41	11.05	054-1L
2328.00	cut	Sh/Clst: gy blk to ol blk	4.60	8.00	30.37	57.04	11.01	057-1L
2352.00	cut	Sh/Clst: ol blk	1.45	7.56	34.25	56.74	10.01	061-1L
2364.00	cut	Sh/Clst: ol blk	5.31	9.37	31.76	53.56	14.23	063-1L
2400.00	cut	Sh/Clst: gy blk to ol blk	6.64	8.57	29.55	55.24	19.08	069-1L
2449.00	ccp	Sh/Clst: ol blk	6.68	14.81	37.67	40.84	1.99	072-1L
2511.00	cut	S/Sst : w to pl y brn	3.96	27.69	40.87	27.48	0.36	077-2L
2517.00	cut	S/Sst : w to pl y brn	1.16	10.06	16.05	72.74	0.40	078-2L
2526.00	cut	S/Sst : w to pl y brn	4.79	22.79	47.44	24.98	0.26	080-2L
2538.00	cut	S/Sst : w to pl y brn	6.83	35.04	42.85	15.28	0.41	082-2L

Table 8 : Pyrolysis GC Data (S2 peak) as Percentage of Total Area for Well NOCS 7120/7-1

Depth unit of measure: m

Depth	Typ	Lithology	C1	C2-C5	C6-C14	C15+	S2 from Rock-Eval	Sample
2580.00	cut	S/Sst : lt gy to pl y brn	8.47	35.00	43.79	12.75	0.24	089-2L
2604.00	cut	Sh/Clst: gy blk to drk gy	7.07	19.71	40.73	32.50	2.64	093-1L
2679.00	cut	Sh/Clst: ol blk	7.95	18.17	38.26	35.63	2.70	104-1L
2718.00	cut	Sh/Clst: gy blk to ol blk	9.13	17.45	40.33	33.09	2.56	108-1L
2730.00	cut	Marl : m gy to drk gy	7.17	31.85	47.65	13.34	0.55	109-2L
2760.00	cut	Sh/Clst: gy blk to ol blk	5.93	15.50	38.32	40.25	2.58	112-1L
2781.00	com	bulk	-	0.09	8.60	90.19	-	124-0B
2790.00	cut	Coal : blk	9.45	13.83	22.98	53.75	132.24	115-3L
2817.00	cut	Sh/Clst: gy blk to ol blk	7.38	17.94	35.06	39.63	2.88	118-1L

Table 9: Variation in Triterpane Distribution for Well NOCS 7120/7-1

Depth unit of measure: m

Depth	Lithology	B/A	B/B+A	B		C/E	C/C+E	X/E	Z/E	Z/C	Z/Z+E	Q/E	E/E+F	C+D		J1		Sample
				B+E+F										C+D+E+F	D+F/C+E	J1+J2%		
2280.00	Sh/Clst	1.54	0.61	0.16	0.45	0.31	0.06	-	-	-	0.04	0.89	0.31	0.12	58.06	049-1		
2364.00	Sh/Clst	0.86	0.46	0.11	0.35	0.26	0.08	-	-	-	0.04	0.92	0.26	0.09	58.54	063-1		
2400.00	Sh/Clst	1.46	0.59	0.15	0.38	0.28	0.10	-	-	-	0.06	0.93	0.28	0.08	57.58	069-1		
2449.00	Sh/Clst	1.47	0.59	0.24	0.74	0.42	0.14	0.05	0.06	0.04	0.18	0.87	0.41	0.13	53.49	072-1		
2511.00	S/Sst	0.87	0.47	0.19	0.51	0.34	0.25	-	-	-	0.13	0.90	0.34	0.12	58.39	077-2		
2517.00	S/Sst	0.96	0.49	0.22	0.48	0.32	0.43	-	-	-	0.09	0.89	0.33	0.13	62.32	078-2		
2526.00	S/Sst	0.95	0.49	0.18	0.45	0.31	0.29	-	-	-	0.12	0.87	0.31	0.15	62.77	080-2		
2538.00	S/Sst	1.77	0.64	0.23	0.72	0.42	0.08	0.15	0.21	0.13	0.30	0.87	0.41	0.14	60.54	082-2		
2604.00	bulk	4.44	0.82	0.24	0.74	0.42	0.07	-	-	-	0.08	0.79	0.41	0.23	57.64	122-0		
2691.00	bulk	4.00	0.80	0.22	0.69	0.41	0.07	-	-	-	0.09	0.81	0.40	0.21	56.16	123-0		
2781.00	bulk	4.06	0.80	0.23	0.80	0.44	0.09	0.06	0.07	0.05	0.22	0.80	0.43	0.23	58.75	124-0		
2799.00	bulk	2.32	0.70	0.25	0.59	0.37	0.29	-	-	-	0.04	0.88	0.38	0.15	60.00	125-0		

Table 10: Variation in Sterane Distribution for Well NOCS 7120/7-1

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Ratio1</u>	<u>Ratio2</u>	<u>Ratio3</u>	<u>Ratio4</u>	<u>Ratio5</u>	<u>Ratio6</u>	<u>Ratio7</u>	<u>Sample</u>
2280.00	Sh/Clst	0.69	55.41	67.54	0.83	0.65	0.29	0.23	049-1
2364.00	Sh/Clst	0.82	58.79	72.01	1.04	0.69	0.40	0.34	063-1
2400.00	Sh/Clst	0.81	56.25	69.92	0.99	0.67	0.49	0.41	069-1
2449.00	Sh/Clst	0.71	50.00	70.83	0.98	0.71	0.63	0.57	072-1
2511.00	S/Sst	0.74	56.98	76.63	0.74	0.74	0.24	0.20	077-2
2517.00	S/Sst	0.79	58.43	74.05	0.71	0.71	0.14	0.11	078-2
2526.00	S/Sst	0.67	51.33	74.26	0.67	0.74	0.20	0.15	080-2
2538.00	S/Sst	0.56	53.52	73.90	0.74	0.73	0.31	0.25	082-2
2604.00	bulk	0.59	52.94	58.71	0.69	0.57	0.41	0.35	122-0
2691.00	bulk	0.60	50.31	66.53	0.78	0.66	0.41	0.34	123-0
2781.00	bulk	0.54	50.19	63.62	0.78	0.64	0.48	0.41	124-0
2799.00	bulk	0.52	40.00	70.59	0.46	0.75	0.37	0.31	125-0

Ratio1: $a / a + j$ Ratio2: $q / q + t * 100\%$ Ratio3: $2(r + s) / (q + t + 2(r + s)) * 100\%$ Ratio4: $a + b + c + d / h + k + l + n$ Ratio5: $r + s / r + s + q$ Ratio6: $u + v / u + v + q + r + s + t$ Ratio7: $u + v / u + v + i + m + n + q + r + s + t$

Table 11: Aromatisation of Steranes for Well NOCS 7120/7-1

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Ratio1</u>	<u>Ratio2</u>	<u>Sample</u>
2280.00	Sh/Clst	0.62	0.67	049-1
2364.00	Sh/Clst	0.46	0.79	063-1
2400.00	Sh/Clst	0.55	0.70	069-1
2449.00	Sh/Clst	0.87	0.38	072-1
2511.00	S/Sst	0.37	0.86	077-2
2517.00	S/Sst	0.44	0.77	078-2
2526.00	S/Sst	0.45	0.74	080-2
2538.00	S/Sst	0.47	0.74	082-2
2604.00	bulk	0.40	0.82	122-0
2691.00	bulk	0.47	0.80	123-0
2781.00	bulk	0.43	0.85	124-0
2799.00	bulk	0.86	0.35	125-0

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

$$\text{Ratio2: } \text{g1} / \text{g1} + \text{I1}$$

Table 12: Variation in Triaromatic Sterane Distribution for Well NOCS 7120/7-1

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Ratio1</u>	<u>Ratio2</u>	<u>Ratio3</u>	<u>Ratio4</u>	<u>Ratio5</u>	<u>Sample</u>
2280.00	Sh/Clst	0.50	0.50	0.27	0.25	0.36	049-1
2364.00	Sh/Clst	0.60	0.61	0.37	0.33	0.48	063-1
2400.00	Sh/Clst	0.71	0.69	0.49	0.46	0.61	069-1
2449.00	Sh/Clst	0.95	0.94	0.87	0.87	0.92	072-1
2511.00	S/Sst	0.47	0.51	0.29	0.24	0.38	077-2
2517.00	S/Sst	0.34	0.42	0.22	0.15	0.30	078-2
2526.00	S/Sst	0.37	0.40	0.23	0.18	0.33	080-2
2538.00	S/Sst	0.27	0.31	0.14	0.11	0.18	082-2
2604.00	bulk	0.47	0.43	0.22	0.22	0.30	122-0
2691.00	bulk	0.49	0.44	0.23	0.24	0.34	123-0
2781.00	bulk	0.42	0.42	0.21	0.19	0.28	124-0
2799.00	bulk	0.84	0.88	0.68	0.62	0.76	125-0

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 13: Variation in Monoaromatic Sterane Distribution for Well NOCS 7120/7-1

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Ratio1</u>	<u>Ratio2</u>	<u>Ratio3</u>	<u>Ratio4</u>	<u>Sample</u>
2280.00	Sh/Clst	0.38	0.37	0.23	0.19	049-1
2364.00	Sh/Clst	0.52	0.43	0.36	0.26	063-1
2400.00	Sh/Clst	0.44	0.40	0.30	0.17	069-1
2449.00	Sh/Clst	0.28	0.20	0.22	0.08	072-1
2511.00	S/Sst	0.40	0.33	0.24	0.17	077-2
2517.00	S/Sst	0.21	0.19	0.10	0.07	078-2
2526.00	S/Sst	0.28	0.23	0.14	0.10	080-2
2538.00	S/Sst	0.32	0.26	0.15	0.12	082-2
2604.00	bulk	0.29	0.28	0.17	0.10	122-0
2691.00	bulk	0.33	0.31	0.19	0.12	123-0
2781.00	bulk	0.32	0.28	0.18	0.11	124-0
2799.00	bulk	-	-	-	-	125-0

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