

**DAILY DRILLING MUD PROPERTIES - 6507/5-4A - 12.25" KCl/Glycol
BP**

Date	Section inch	Depth (m)	Mud Weight (sg)	Funnel Viscosity (sec/qt)	F.L. Temp deg F	Plastic Viscosity cP	Yield Point lb/100ft	Gels lb/ 100ft ²	pH	A.P.I. Fluid Loss	A.P.I. Filter Cake	Pm	Pf/Mf	Chloride mg/l	Total Calcium mg/l	KCl ppb	MBT ppb	Corr. Solid (% by vol)	Glycol (% by vol)	Water (% by vol)	Sand %	LGS %	HGS %
2001																							
17.apr	12,25	1 635	1,35	84	72	24	19	5/8	11,6		2,4	2,00	0.5/1.8	70000	80	48,0	5,0	10,3	5,2	85,5	tr	23,93	
20.apr	12,25	2 648	1,55	76	86	27	27	8/25	10,4		2,8	1,20	0.4/0.8	70000	120	47,0	15,0	17,7	4,6	76,0	tr	36,22	
21.apr	12,25	2 916	1,55	84	98	28	26	8/35	9,7		2,8	0,85	0.65/2.0	73000	80	48,0	17,5	17,5	4,8	76,0	tr	35,04	
22.apr	12,25	2 975	1,55	82	105	30	23	7/23	9,6		2,0	0,80	0.60/1.80	71000	90	45,0	17,0	17,6	4,8	76,0	tr	35,85	
23.apr	12,25	3 000	1,55	82	90	30	20	6/25	9,9		2,2	0,90	0.6/1.8	71000	80	48,0	16,0	17,6	5,7	76,0	tr	35,85	
25.apr	12,25	3 099	1,54	76	92	20	28	6/25	9,7		2,4	0,60	0.2/0.8	72000	800	49,0	16,0	17,0	5,2	76,5	tr	31,94	
26.apr	12,25	3 304	1,55	74	100	26	20	6/26	9,1		2,2	0,45	0.15/0.80	72000	800	48,0	17,5	17,6	4,8	76,0	0,25	35,58	
28.apr	12,25	3 365	1,57	92	90	34	30	10/35	9,0		2,0	0,15	0.2/1.2	79000	400	50,0	18,0	17,7	5,0	75,5	tr	30,67	
29.apr	12,25	3 505	1,57	93	109	36	33	14/56	9,2		2,2	0,15	0.5/1.7	86000	200	46,0	18,0	17,4	4,0	75,5	tr	27,48	
30.apr	12,25	3 639	1,57	106	122	36	33	18/67	9,5		2,8	0,50	0.4/1.8	80000	400	43,0	18,0	20,3	4,0	73,0	tr	76,44	
01.mai	12,25	3 709	1,57	61	122	26	19	8/36	9,8		2,9	0,50	0.4/1.8	80000	400	43,0	18,0	19,3	4,0	74,0	tr	57,79	
END OF SECTION																							

**DAILY DRILLING MUD PROPERTIES - 6507/5-4A - 8.5" KCl/Glycol
BP**

Date	Section inch	Depth (m)	Mud Weigh (sg)	Funnel Viscosity (sec/qt)	F.L. Temp deg F	Plastic Viscosity cP	Yield Point lb/100ft ²	Gels lb/ 100ft ²	pH	A.P.I. Fluid Loss	A.P.I. Filter Cake	Pm	Pf/Mf	Chloride mg/l	Total Calcium mg/l	KCl ppb	MBT ppb	Corr. Solids (% by vol)	Glyco (% by vol)	Water (% by vol)	Sand %	LGS %	HGS %
2001																							
11.mai	8,50	3 709	1,25	54		25	18	5/8	9,4		1,0		0/0	78000		49,0		5,6		90,0	TR	4,00	
12.mai	8,50	3 758	1,27	51	65	16	14	4/6	10,4		1,0	0,90	0,35/0,8	79000		48,0		7,1		88,5	TR	19,75	
13.mai	8,50	3 883	1,25	54	66	16	16	5/8	8,9		2,0	0,35	0,3/1,5	70000		44,0		7,1		89,0	TR	26,03	
TD WELL																							

1.5 TESTS

1.5.1 MDT PRESSURE TEST DATA

Test	Depth mMDBRT	Depth mTVDSS	Mud Hydrostatic (psia)		Formation Pressure (psia)	Comment
			Before	After		
1	3721	3597.8	6358.30	6358.80	5424.88	Good Test
2	3723.2	3599.9	6361.00	6360.70	5426.70	Good Test
3	3725.3	3601.9	6364.10	6364.20	5428.46	Good Test
4	3727.2	3603.7	6366.20	6367.40	5430.59	Good Test
5	3730.1	3606.5	6372.20	6371.8	5432.70	Good Test
6	3733.6	3609.8	6377.17	6376.40	5435.43	Good Test
7	3736.9	3612.9	6382.30	6383.20	5438.58	Good Test
8	3740.3	3616.2	6388.40	6387.80	5441.46	Good Test
9	3743.3	3619.0	6392.60	6392.50	5444.40	Good Test
10	3749	3624.4	6401.20	6402.20	5449.15	Good Test
11	3751.9	3627.2	6406.80	6406.55	5452.07	Good Test
12	3754.6	3629.8	6411.00	6410.80	5454.21	Good Test
13	3757.8	3632.8	6416.10	6416.10	5457.18	Good Test
14	3763	3637.8	6424.80	6424.30	-	Supercharged
	3763	3637.8	6424.00	6423.90	5461.27	Good Test (Retry point. +0.7 m added after correlation)
15	3765.7	3640.3	6428.80	6428.40	5463.77	Good Test
16	3769	3643.5	6433.40	6433.20	5466.78	Good Test
17	3772.4	3646.7	6439.40	6439.60	5469.86	Good Test
18	3781	3654.9	6454.30	6453.90	-	Tight
19	3784	3657.7	6458.90	6458.60	-	Supercharged.
20	3788.5	3662.0	6465.00	-	-	Supercharged
21	3790.5	3663.9	6468.20	-	-	Supercharged
22	3799	3672.0	6482.90	-	-	Tight

1.5.2 MDT SAMPLING DATA

Tool Set	Depth mBRT	Depth mTVDSS	Mobility Md/cp	Hydrostatic psia	Initial Pressure psia	Flowing Pressure psia	Shutin Pressure psia	Volum e cm³	Comments
1	3733.6	3609.8	320	6365.8	5435.67	5400	10859	1 Gal	T 116.7° C, dd 35.7
2	3733.6	3609.8	320	6365.8	5435.67	5403	10859	1 Gal	T 116.6° C, dd 32.7
3	3733.6	3609.8	320	6365.8	5435.67	5405	10859	1 Gal	T 116.7° C, dd 30.7
4	3733.6	3609.8	320	6365.8	5435.67	5405	10859	1 Gal	T 116.6° C, dd 30.7
5	3733.6	3609.8	320	6365.8	5435.67	5405	10859	250	T 116.8° C, dd 30.7
6	3733.6	3609.8	320	6365.8	5435.67	5405	10859	250	T 116.8° C, dd 30.7
7	3748.7	3624.2	115	6388	5448.79	4720	10881	450	T 116.5° C, dd 728.8
8	3748.7	3624.2	115	6388	5448.79	4631	10881	450	T 117.2° C, dd 817.8

1.5.3 DST PRESSURE TEST DATA

The well was temporarily abandoned, with a contingent DST planned for a later date.

L-1003

3

Data report on molecular and stable
isotope composition of gas samples
from well 6507/5-4 and 6507/5-4 A

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14 Nov. 2001

BA 01-4887-1



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Report number APT01-173	Classification Confidential
Report Title Data report on molecular and stable isotope composition of gas samples from well 6507/5-4 and 6507/5-4 A	Submitted
Client BP Amoco	Service Order SO-018446
Client Reference Kjell Øygaard	Number of pages 5
Distribution BP Amoco (7) APT (1)	

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1 Introduction

7 gas samples from well 6507/5-4 and 6507/5-4 A have been analysed for gas and isotopic composition.

On the samples C₁ - C₅ and CO₂ are quantified. The $\delta^{13}\text{C}$ value is measured on methane, ethane, propane, the butanes and CO₂, and the $\delta^{18}\text{O}$ value is measured on CO₂. In addition the δD value is measured on methane.

2 Analytical procedures

Aliquots of 0.1 to 1.0 ml are sampled with a syringe for analysis on a Porabond Q column connected with flame ionisation (FID) and thermal conductivity (TCD) detectors. The detection limit for the hydrocarbon gas components is 0.001 $\mu\text{l/ml}$, for CO₂ 0.05 $\mu\text{l/ml}$.

For the isotope analysis 5-10 ml of the gas is sampled with a syringe and then separated into the different gas components by a Carlo Erba 4200 gas chromatograph. The hydrocarbon gas components are oxidised in separate CuO-ovens in order to prevent cross contamination. The combustion products CO₂ and H₂O are frozen into collection vessels and separated.

The combustion water is reduced with zinc metal in sealed quartz tubes to prepare hydrogen for isotopic analysis. The isotopic measurements are performed on a Finnigan MAT 251 and a Finnigan Delta mass spectrometer.

IFEs value on NBS 22 is $-29.77 \pm .06\text{‰}$ PDB.

The analytical procedures are tested with a laboratory gas standard mixture. Based on repeated analysis of the gas standard, the reproducibility in the $\delta^{13}\text{C}$ value is better than 0.5‰ PDB for all components. The reproducibility in the δD value is likewise better than 10‰.

3 Results

The normalised volume composition of the gas samples is shown in Table 1. The stable isotope composition is shown in Table 2. One of the gas samples from well 6507/5-4, sample 3575.40, is not analysed for stable isotopes due to a leak in the gas container during the analytical work.

The molecular composition related to the carbon isotope variations in methane from the samples are plotted in Figure 1 (Schoell, 1983), the carbon and hydrogen variations in methane are plotted in Figure 2 (Schoell, 1983) and the carbon isotope variation in ethane related to the carbon isotope variations in methane in Figure 3 (Schoell, 1983).

Table 1 Volume composition of 7 gas samples (normalised values) from well 6507/5-4 and 6507/5-4 A

	Sample	IFE no	C ₁	C ₂	C ₃	iC ₄	nC ₄	iC ₅	nC ₅	CO ₂	Sum	Wet-	iC ₄ /
		GEO	%	%	%	%	%	%	%	%	C ₁ -C ₅	ness	nC ₄
6507/5-4	3575.40	20011930	73.8	7.6	4.3	0.57	1.2	0.21	0.23	12.1	87.9	0.16	0.47
6507/5-4	3559.80	20011931	84.6	7.9	3.7	0.32	0.7	0.14	0.17	2.5	97.5	0.13	0.47
6507/5-4 A	3733.60	20012276	82.9	8.3	3.4	0.44	0.85	0.34	0.29	3.4	96.6	0.14	0.51
6507/5-4 A	3748.70	20012277	83.6	8.4	3.3	0.33	0.70	0.14	0.18	3.3	96.7	0.14	0.47
6507/5-4	3514.00	20012278	83.2	7.6	3.9	0.50	1.2	0.40	0.49	2.6	97.4	0.15	0.40
6507/5-4	3055.20	20012279	86.8	6.2	3.2	0.50	1.0	0.26	0.40	1.7	98.3	0.12	0.52
6507/5-4	3220.80	20012280	81.0	8.2	4.7	0.84	1.9	0.68	0.82	1.8	98.2	0.18	0.44

Table 2 Isotopic composition of 7 gas samples (normalised values) from well 6507/5-4 and 6507/5-4 A

	Sample	IFE no	C ₁	C ₁	C ₂	C ₃	iC ₄	nC ₄	CO ₂	CO ₂
			δ ¹³ C	δD	δ ¹³ C	δ ¹³ C	δ ¹³ C	δ ¹³ C	δ ¹³ C	δ ¹⁸ O
6507/5-4	3575.40	20011930	-	-	-	-	-	-	-	-
6507/5-4	3559.80	20011931	-40.4	-187	-30.7	-28.7	-28.5	-29.2	-10.0	-11.3
6507/5-4 A	3733.60	20012276	-40.1	-187	-30.4	-28.5	-27.2	-28.8	-10.9	-7.7
6507/5-4 A	3748.70	20012277	-40.4	-184	-30.5	-28.3	-26.8	-28.3	-9.6	-9.4
6507/5-4	3514.00	20012278	-40.1	-185	-30.5	-28.7	-28.4	-28.9	-11.8	-9.9
6507/5-4	3055.20	20012279	-41.5	-185	-30.4	-28.3	-27.2	-28.0	-11.0	-11.5
6507/5-4	3220.80	20012280	-42.2	-193	-30.4	-28.1	-26.8	-27.8	-9.2	-9.9

4 Literature

Schoell, M.(1983). Genetic characterisation of natural gases. *The American Association of Petroleum Geologists Bulletin*, **67**,2225-2238.

**Geochemical Report on
NOCS Well 6507/5-4A**

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Chapter 1

INTRODUCTION

1.1 General comments on 6507/5-4A Sidetrack

This well is the sidetrack to the third well on the Skarv structure.

1.2 Analytical program

Based on the instructions from BPAmoco the following analyses were carried out

Rocks

<i>Analysis type</i>	<i>No. of samples</i>	<i>Table</i>
Washing of cuttings	6	-
Lithology Description	15	1
Extraction	15	2a-e
Asphaltene separation	15	2a-e
MPLC separation	15	2a-e
Saturated hydrocarbon GC	15	3a-b
Aromatic hydrocarbon GC	15	4a-b
Quantitative saturated hydrocarbon GC-MS	8	5a-i
Quantitative aromatic hydrocarbon GC-MS	8	6a-k
$\delta^{13}\text{C}$ Bulk isotope composition	8	7a-b

Oils

<i>Analysis type</i>	<i>No. of samples</i>	<i>Table</i>
Whole oil GC	2	1a-c
Topping	2	2a-c
Asphaltene separation	2	2a-c
MPLC separation	2	2a-c
Saturated hydrocarbon GC	2	3a-b
Aromatic hydrocarbon GC	2	4a-b
Saturated hydrocarbon GC-MS	2	5a-i
Aromatic hydrocarbon GC-MS	2	6a-k
$\delta^{13}\text{C}$ Bulk isotope composition	2	7a-b

1.3 Stratigraphy

The following stratigraphy (measured depths MDRT) of well 6507/5-4A was provided by BPAmoco and has been used in this report.

<i>Lithostratigraphic Unit</i>	<i>Age</i>	<i>Top MDBRT (m)</i> <i>6507/5-4A</i>
Seabed		446
Naust Fm.	Tertiary	645.8
T200/Kai Fm.		1463.7
Hordaland Gp.	Tertiary	1822.8
Brygge Fm.		1822.8
Rogaland Gp.	Tertiary	2027
T50/Tare Fm.		2027
Tang Fm.		2064
Sheltand/Cromer Knoll Gps.	Cretaceous	
K90		
K80		
Kvitnos		2620
K72/Lysing		2838
K68/Lange Fm.		2846
K67/Upper Lange sst (ULAS)		3125
Base Upper Lange sst (LLAS)		3223
Lower Lange Sst		3311
K62		3357.5
K56		
Viking Gp.	Jurassic	3471
Spekk Fm.		3471
Melke Fm.		3490
Fangst Gp.		3719.7
Garn Fm.		3719.7
Not Fm.		3792.8
Ile Fm.		3820.6
Ror Fm.		3846.7
Total Depth (TD)		3883.14

Table 1.: Lithology description for well NOCS 6507/5-4A SKARV

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3138.00						0012
				70 Sh/Clst: lt gy to drk gy, slt		0012-1L
				25 Sltst : m gy to drk gy, mic		0012-2L
				5 S/Sst : slt, argill		0012-3L
				tr Coal		0012-4L
3150.00						0013
				80 S/Sst : mic, glauc, f, crs, cem, l		0013-3L
				20 Sh/Clst: lt gy to drk gy, slt		0013-1L
				tr Coal		0013-4L
3159.00						0014
				80 S/Sst : mic, glauc, f, cem, l		0014-2L
				20 Sh/Clst: lt gy to drk gy, slt		0014-1L
				tr Coal		0014-3L
3312.00						0015
				70 Sh/Clst: lt gy to drk gy, slt		0015-1L
				30 S/Sst : mic, glauc, f, cem, l		0015-2L
				tr Coal		0015-3L
3327.00						0016
				80 Sh/Clst: drk gy to blk, m gy to m drk gy, slt, mic		0016-1L
				20 S/Sst : carb, pyr, argill, mic, l		0016-2L
				tr Coal		0016-3L
3342.00						0017
				70 Sh/Clst: drk gy to blk, m gy to m drk gy, slt, mic		0017-1L
				30 S/Sst : carb, pyr, argill, mic, l		0017-2L
				tr Coal		0017-3L

Table 1 : Lithology description for well NOCS 6507/5-4A-SKARV

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3724.00						0001
				85 S/Sst : l		0001-1L
				10 Sh/Clst: gy brn to drk gy to blk, carb, slt, mic		0001-2L
				5 Cont : cem, dd		0001-3L
3745.00						0002
				95 S/Sst : l		0002-1L
				5 Sh/Clst: gy brn to drk gy to blk, carb, slt, mic		0002-2L
				tr Cont : cem, dd		0002-3L
3769.00						0003
				95 S/Sst : l		0003-1L
				5 Sh/Clst: gy brn to drk gy to blk, carb, slt, mic		0003-2L
				tr Cont : cem, dd		0003-3L
3784.00						0004
				95 S/Sst : gy w, carb, mic, cem, l, kln		0004-1L
				5 Sh/Clst: gy brn to drk gy to blk, carb, slt, mic		0004-2L
				tr Cont : cem, dd		0004-3L
3805.00						0005
				80 S/Sst : gy w, gy pi, gy brn, carb, slt, mic, l, kln		0005-1L
				10 Sh/Clst: gy brn to drk gy to blk, carb, slt, mic		0005-2L
				5 Cont : dd		0005-3L
				5 Sltst : gy brn, carb, s, argill, mic		0005-5L
3826.00						0006
				60 S/Sst : gy w, gy pi, gy brn, carb, slt, mic, kln		0006-1L
				25 Sltst : gy brn, carb, s, argill, mic		0006-4L
				10 Sh/Clst: gy brn to drk gy to blk, carb, slt, mic		0006-2L
				5 Cont : prp, dd		0006-3L

Table 1 : Lithology description for well NOCS 6507/5-4A SKARV

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int Cvd	TOC%	%	Lithology description			
3847.00						0007
			65 S/Sst	: gy w, gy pi, gy brn, carb, slt, mic, kln		0007-1L
			20 Sh/Clst:	gy brn to drk gy to blk, carb, slt, mic		0007-2L
			15 Sltst	: gy brn, carb, s, argill, mic		0007-4L
			tr Cont	: prp, dd		0007-3L
3868.00						0008
			55 S/Sst	: gy w, gy pi, gy brn, carb, slt, mic, kln		0008-1L
			25 Sh/Clst:	gy brn to drk gy to blk, carb, slt, mic		0008-2L
			20 Sltst	: gy brn, carb, s, argill, mic		0008-4L
			tr Cont	: prp, dd		0008-3L
3877.00						0009
			50 Sltst	: gy brn, carb, s, argill, mic		0009-4L
			25 S/Sst	: gy w, gy pi, gy brn, carb, slt, mic, kln		0009-1L
			25 Sh/Clst:	gy brn to drk gy to blk, carb, slt, mic		0009-2L
			tr Cont	: prp, dd		0009-3L
			tr Ca	: gy w, m brn		0009-5L

Table 2/a: MPLC Bulk Composition: Weight of EOM and Fraction for well NOCS 6507/5-4A SKARV

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
3138.00	cut	bulk	4.2	32.2	0.9	0.5	0.4	30.3	1.5	30.7	1.04	0012-0B
3150.00	cut	bulk	9.3	21.5	1.3	0.7	0.4	19.1	2.0	19.5	0.41	0013-0B
3159.00	cut	bulk	10.4	19.3	2.0	0.8	0.5	16.0	2.8	16.5	0.45	0014-0B
3312.00	cut	bulk	9.4	33.2	5.9	1.0	0.9	25.4	6.9	26.3	1.02	0015-0B
3327.00	cut	bulk	10.0	47.7	4.0	3.6	0.8	39.4	7.6	40.1	1.43	0016-0B
3342.00	cut	bulk	9.7	35.2	3.8	2.3	0.7	28.5	6.1	29.1	1.28	0017-0B
3724.00	cut	bulk	4.8	5.9	0.5	1.0	0.3	4.1	1.5	4.4	0.50	0001-0B
3733.60	oil	bulk	82.0	70.3	43.6	20.4	0.5	5.7	64.1	6.2	-	0010-0B
3745.00	cut	bulk	8.1	4.1	1.2	1.4	0.4	1.1	2.6	1.5	0.24	0002-0B
3748.70	oil	bulk	90.8	77.3	47.9	22.7	0.5	6.2	70.6	6.7	-	0011-0B
3769.00	cut	bulk	12.6	7.2	3.0	1.4	0.4	2.3	4.5	2.7	0.19	0003-0B
3784.00	cut	bulk	6.1	7.1	2.6	1.7	0.8	2.0	4.3	2.8	0.40	0004-0B
3805.00	cut	bulk	5.1	6.6	1.5	1.7	1.1	2.2	3.3	3.3	0.99	0005-0B
3826.00	cut	bulk	7.0	7.9	1.7	1.9	1.6	2.7	3.6	4.3	1.16	0006-0B
3847.00	cut	bulk	11.0	10.9	3.7	2.9	1.4	2.9	6.6	4.3	1.05	0007-0B
3868.00	cut	bulk	5.7	8.1	2.9	2.4	1.0	1.8	5.3	2.8	0.90	0008-0B
3877.00	cut	bulk	4.0	2.9	0.8	0.6	0.7	0.8	1.4	1.5	0.81	0009-0B

Table 2b: MPLC Bulk Composition: Concentration of EOM and Fraction (wt ppm rock) for well NOCS 6507/5-4A SKARV

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
3138.00	cut	bulk	7666	216	129	106	7214	345	7321	0012-0B
3150.00	cut	bulk	2311	141	70	46	2052	212	2099	0013-0B
3159.00	cut	bulk	1862	189	78	51	1543	267	1595	0014-0B
3312.00	cut	bulk	3539	631	108	91	2708	740	2799	0015-0B
3327.00	cut	bulk	4755	401	354	74	3924	756	3999	0016-0B
3342.00	cut	bulk	3625	393	232	67	2932	625	2999	0017-0B
3724.00	cut	bulk	1219	112	197	61	846	310	908	0001-0B
3733.60	oil	bulk	857	532	249	6	69	781	75	0010-0B
3745.00	cut	bulk	505	152	167	49	136	319	186	0002-0B
3748.70	oil	bulk	851	526	249	5	68	776	74	0011-0B
3769.00	cut	bulk	570	241	113	31	184	354	216	0003-0B
3784.00	cut	bulk	1163	418	279	131	334	697	466	0004-0B
3805.00	cut	bulk	1304	305	339	217	441	645	658	0005-0B
3826.00	cut	bulk	1125	244	271	227	380	516	608	0006-0B
3847.00	cut	bulk	993	341	260	131	260	601	391	0007-0B
3868.00	cut	bulk	1426	509	416	176	324	925	500	0008-0B
3877.00	cut	bulk	717	192	160	173	192	352	365	0009-0B

Table 2c: MPLC Bulk Composition: Concentration of EOM and Fraction (mg/g TOC(e)) for well NOCS 6507/5-4A SKARV

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
3138.00	cut	bulk	737.18	20.77	12.46	10.20	693.74	33.23	703.95	0012-0B
3150.00	cut	bulk	563.86	34.53	17.27	11.33	500.73	51.80	512.06	0013-0B
3159.00	cut	bulk	413.99	42.01	17.50	11.37	343.10	59.52	354.47	0014-0B
3312.00	cut	bulk	347.00	61.95	10.62	8.93	265.51	72.57	274.43	0015-0B
3327.00	cut	bulk	332.57	28.10	24.80	5.23	274.43	52.90	279.67	0016-0B
3342.00	cut	bulk	283.21	30.73	18.16	5.24	229.08	48.89	234.32	0017-0B
3724.00	cut	bulk	243.80	22.58	39.51	12.40	169.32	62.08	181.72	0001-0B
3733.60	oil	bulk	-	-	-	-	-	-	-	0010-0B
3745.00	cut	bulk	210.65	63.36	69.70	20.55	57.03	133.07	77.58	0002-0B
3748.70	oil	bulk	-	-	-	-	-	-	-	0011-0B
3769.00	cut	bulk	300.28	126.87	59.70	16.68	97.02	186.57	113.70	0003-0B
3784.00	cut	bulk	290.98	104.67	69.78	32.79	83.74	174.46	116.53	0004-0B
3805.00	cut	bulk	131.75	30.88	34.31	21.96	44.60	65.19	66.56	0005-0B
3826.00	cut	bulk	97.01	21.10	23.44	19.65	32.82	44.54	52.47	0006-0B
3847.00	cut	bulk	94.63	32.52	24.78	12.55	24.78	57.30	37.33	0007-0B
3868.00	cut	bulk	158.45	56.58	46.30	19.56	36.01	102.88	55.57	0008-0B
3877.00	cut	bulk	88.62	23.73	19.77	21.39	23.73	43.50	45.12	0009-0B

Table 2d: MPLC Bulk Composition: Material extracted from the rock (%) for well NOCS 6507/5-4A SKARV

Depth unit of measure: m

Depth	Typ	Lithology	Sat	Aro	Asph	NSO	Total	HC	Non-HC	Recov. MPLC	Recov. Asph	Sample
3138.00	cut	bulk	2.82	1.69	1.38	94.11	100.00	4.51	95.49	-	0.01	0012-0B
3150.00	cut	bulk	6.12	3.06	2.01	88.80	100.00	9.19	90.81	-	0.02	0013-0B
3159.00	cut	bulk	10.15	4.23	2.75	82.88	100.00	14.38	85.62	-	0.03	0014-0B
3312.00	cut	bulk	17.85	3.06	2.57	76.51	100.00	20.91	79.09	-	0.03	0015-0B
3327.00	cut	bulk	8.45	7.46	1.57	82.52	100.00	15.91	84.09	-	0.02	0016-0B
3342.00	cut	bulk	10.85	6.41	1.85	80.89	100.00	17.26	82.74	-	0.02	0017-0B
3724.00	cut	bulk	9.26	16.21	5.08	69.45	100.00	25.47	74.53	-	0.05	0001-0B
3733.60	oil	bulk	62.09	29.08	0.71	8.12	100.00	91.17	8.83	-	-	0010-0B
3745.00	cut	bulk	30.08	33.09	9.76	27.07	100.00	63.17	36.83	-	0.10	0002-0B
3748.70	oil	bulk	61.91	29.37	0.65	8.08	100.00	91.28	8.72	-	-	0011-0B
3769.00	cut	bulk	42.25	19.88	5.56	32.31	100.00	62.13	37.87	-	0.06	0003-0B
3784.00	cut	bulk	35.97	23.98	11.27	28.78	100.00	59.95	40.05	-	0.11	0004-0B
3805.00	cut	bulk	23.44	26.04	16.67	33.85	100.00	49.48	50.52	-	0.17	0005-0B
3826.00	cut	bulk	21.75	24.17	20.25	33.83	100.00	45.91	54.09	-	0.20	0006-0B
3847.00	cut	bulk	34.37	26.18	13.27	26.18	100.00	60.55	39.45	-	0.13	0007-0B
3868.00	cut	bulk	35.71	29.22	12.35	22.73	100.00	64.93	35.07	-	0.12	0008-0B
3877.00	cut	bulk	26.77	22.31	24.14	26.77	100.00	49.09	50.91	-	0.24	0009-0B

Table 2 e: MPLC Bulk Composition: Ratios for well NOCS 6507/5-4A SKARV

Depth unit of measure: m

Depth	Typ	Lithology	Sat	HC	Asp	Sample
			Aro	Non-HC	NSO	
3138.00	cut	bulk	1.67	0.05	0.01	0012-0B
3150.00	cut	bulk	2.00	0.10	0.02	0013-0B
3159.00	cut	bulk	2.40	0.17	0.03	0014-0B
3312.00	cut	bulk	5.83	0.26	0.03	0015-0B
3327.00	cut	bulk	1.13	0.19	0.02	0016-0B
3342.00	cut	bulk	1.69	0.21	0.02	0017-0B
3724.00	cut	bulk	0.57	0.34	0.07	0001-0B
3733.60	oil	bulk	2.14	10.32	0.09	0010-0B
3745.00	cut	bulk	0.91	1.72	0.36	0002-0B
3748.70	oil	bulk	2.11	10.46	0.08	0011-0B
3769.00	cut	bulk	2.13	1.64	0.17	0003-0B
3784.00	cut	bulk	1.50	1.50	0.39	0004-0B
3805.00	cut	bulk	0.90	0.98	0.49	0005-0B
3826.00	cut	bulk	0.90	0.85	0.60	0006-0B
3847.00	cut	bulk	1.31	1.53	0.51	0007-0B
3868.00	cut	bulk	1.22	1.85	0.54	0008-0B
3877.00	cut	bulk	1.20	0.96	0.90	0009-0B

Table 3: Saturated Hydrocarbon Ratios (peak area) for well NOCS 6507/5-4A SKARV

Depth unit of measure: m

Depth	Typ	Lithology	Pristane	Pristane	Pristane/nC17	Phytane	CPI1	nC17	Sample
			nC17	Phytane	Phytane/nC18	nC18		nC17+nC27	
3138.00	cut	bulk	0.64	2.64	1.60	0.40	1.30	0.94	0012-0B
3150.00	cut	bulk	0.87	1.94	1.61	0.54	1.15	0.85	0013-0B
3159.00	cut	bulk	0.74	1.96	1.59	0.47	1.17	0.87	0014-0B
3312.00	cut	bulk	0.73	1.69	1.56	0.47	1.16	0.87	0015-0B
3327.00	cut	bulk	1.10	2.51	2.28	0.48	1.13	0.86	0016-0B
3342.00	cut	bulk	0.78	2.12	1.89	0.41	1.13	0.89	0017-0B
3724.00	cut	bulk	0.80	0.81	1.56	0.51	0.98	0.84	0001-0B
3733.60	oil	bulk	0.80	1.47	1.32	0.60	1.09	0.84	0010-0B
3745.00	cut	bulk	0.70	1.46	1.27	0.55	1.08	0.85	0002-0B
3748.70	oil	bulk	0.79	1.48	1.33	0.60	1.08	0.84	0011-0B
3769.00	cut	bulk	0.72	1.39	1.27	0.57	1.07	0.83	0003-0B
3784.00	cut	bulk	0.70	1.31	1.25	0.56	1.11	0.81	0004-0B
3805.00	cut	bulk	0.80	1.60	1.48	0.54	1.09	0.79	0005-0B
3826.00	cut	bulk	0.85	2.51	1.99	0.42	1.11	0.81	0006-0B
3847.00	cut	bulk	0.89	2.01	1.83	0.48	1.09	0.76	0007-0B
3868.00	cut	bulk	0.81	1.62	1.52	0.53	1.08	0.81	0008-0B
3877.00	cut	bulk	0.72	2.60	2.51	0.28	1.20	0.83	0009-0B

Table 4a: Aromatic Hydrocarbon Ratios (peak area) for well NOCS 6507/5-4A SKARV

Depth unit of measure: m

Depth	Typ	Lithology	MNR	DMNR	BPhR	2/1MP	MPI1	MPI2	Rc	DBT/P	4/1MDBT	(3+2) /1MDBT	Sample
3138.00	cut	bulk	1.14	2.87	0.46	1.19	0.65	0.76	0.79	-	-	-	0012-0B
3150.00	cut	bulk	1.12	2.87	0.47	1.06	0.70	0.79	0.82	-	-	-	0013-0B
3159.00	cut	bulk	1.18	3.18	0.53	1.22	0.78	0.90	0.87	-	-	-	0014-0B
3312.00	cut	bulk	1.14	2.51	0.56	0.82	0.62	0.68	0.77	0.17	6.61	1.43	0015-0B
3327.00	cut	bulk	1.21	3.02	0.89	0.92	0.58	0.64	0.75	0.23	7.29	1.54	0016-0B
3342.00	cut	bulk	1.20	2.90	0.75	0.89	0.59	0.66	0.76	0.24	9.58	1.50	0017-0B
3724.00	cut	bulk	-	-	-	1.66	1.02	1.00	1.01	-	-	-	0001-0B
3733.60	oil	bulk	1.32	3.41	0.29	1.17	0.89	0.90	0.94	0.28	5.28	1.95	0010-0B
3745.00	cut	bulk	-	-	-	1.21	0.75	0.75	0.85	-	-	-	0002-0B
3748.70	oil	bulk	1.36	3.54	0.30	1.20	0.88	0.91	0.93	0.28	5.24	1.95	0011-0B
3769.00	cut	bulk	-	1.67	-	1.29	0.90	0.88	0.94	0.11	5.56	1.35	0003-0B
3784.00	cut	bulk	0.27	2.09	0.11	1.18	0.87	0.97	0.92	0.21	8.35	2.31	0004-0B
3805.00	cut	bulk	0.72	2.54	0.18	1.22	0.74	0.86	0.84	0.18	7.89	2.03	0005-0B
3826.00	cut	bulk	0.77	2.40	0.18	1.24	0.65	0.78	0.79	0.16	5.88	1.75	0006-0B
3847.00	cut	bulk	0.98	2.78	0.25	1.27	0.68	0.82	0.81	0.15	4.19	1.48	0007-0B
3868.00	cut	bulk	1.00	2.48	0.20	1.20	0.71	0.86	0.83	0.14	-	-	0008-0B
3877.00	cut	bulk	-	1.26	-	1.16	0.71	0.89	0.83	0.06	-	-	0009-0B

Table 4b: Aromatic Hydrocarbon Ratios (peak area) for well NOCS 6507/5-4A SKARV

Depth unit of measure: m

Depth	Typ	Lithology	F1	F2	Sample
3138.00	cut	bulk	0.46	0.27	0012-0B
3150.00	cut	bulk	0.47	0.26	0013-0B
3159.00	cut	bulk	0.49	0.28	0014-0B
3312.00	cut	bulk	0.41	0.23	0015-0B
3327.00	cut	bulk	0.43	0.24	0016-0B
3342.00	cut	bulk	0.41	0.23	0017-0B
3724.00	cut	bulk	0.61	0.30	0001-0B
3733.60	oil	bulk	0.50	0.25	0010-0B
3745.00	cut	bulk	0.52	0.26	0002-0B
3748.70	oil	bulk	0.51	0.26	0011-0B
3769.00	cut	bulk	0.53	0.26	0003-0B
3784.00	cut	bulk	0.50	0.28	0004-0B
3805.00	cut	bulk	0.48	0.28	0005-0B
3826.00	cut	bulk	0.48	0.29	0006-0B
3847.00	cut	bulk	0.49	0.30	0007-0B
3868.00	cut	bulk	0.48	0.29	0008-0B
3877.00	cut	bulk	0.47	0.29	0009-0B

Table 5a: Variation in Triterpane Distribution (peak height) SIR for Well NOCS 6507/5-4A SKARV

Depth unit of measure: m

Depth	Lithology	Ratio1	Ratio2	Ratio3	Ratio4	Ratio5	Ratio6	Ratio7	Ratio8	Ratio9	Rat.10	Rat.11	Rat.12	Rat.13	Rat.14	Sample
3159.00	bulk	1.82	0.65	0.22	0.65	0.39	0.07	0.14	0.22	0.13	0.09	0.84	0.40	0.21	55.67	0014-0
3312.00	bulk	1.81	0.64	0.26	0.66	0.40	0.13	0.15	0.23	0.13	0.12	0.85	0.41	0.19	58.36	0015-0
3733.60	bulk	0.85	0.46	0.15	0.49	0.33	0.09	0.21	0.43	0.17	0.12	0.92	0.33	0.09	61.12	0010-0
3748.70	bulk	0.88	0.47	0.15	0.49	0.33	0.10	0.21	0.43	0.17	0.10	0.92	0.33	0.09	61.05	0011-0
3769.00	bulk	1.03	0.51	0.16	0.50	0.33	0.08	0.19	0.38	0.16	0.10	0.92	0.33	0.09	60.38	0003-0
3784.00	bulk	1.02	0.51	0.15	0.49	0.33	0.08	0.19	0.39	0.16	0.09	0.92	0.33	0.09	60.23	0004-0
3805.00	bulk	1.35	0.57	0.17	0.51	0.34	0.08	0.16	0.32	0.14	0.06	0.90	0.34	0.11	60.52	0005-0
3826.00	bulk	2.17	0.68	0.18	0.56	0.36	0.07	0.12	0.22	0.11	0.03	0.89	0.35	0.12	61.13	0006-0
3868.00	bulk	1.30	0.56	0.16	0.52	0.34	0.09	0.16	0.30	0.14	0.07	0.91	0.34	0.10	61.06	0008-0
3877.00	bulk	2.21	0.69	0.17	0.53	0.35	0.11	0.04	0.08	0.04	0.03	0.88	0.34	0.12	60.88	0009-0

List of Triterpane Distribution Ratios

Ratio 1: $27Tm / 27Ts$

Ratio 2: $27Tm / 27Tm+27Ts$

Ratio 3: $27Tm / 27Tm+30a\beta+30\beta a$

Ratio 4: $29a\beta / 30a\beta$

Ratio 5: $29a\beta / 29a\beta+30a\beta$

Ratio 6: $30d / 30a\beta$

Ratio 7: $28a\beta / 30a\beta$

Ratio 8: $28a\beta / 29a\beta$

Ratio 9: $28a\beta / 28a\beta+30a\beta$

Ratio 10: $24/3 / 30a\beta$

Ratio 11: $30a\beta / 30a\beta+30\beta a$

Ratio 12: $29a\beta+29\beta a / 29a\beta+29\beta a+30a\beta+30\beta a$

Ratio 13: $29\beta a+30\beta a / 29a\beta+30a\beta$

Ratio 14: $32a\beta S / 32a\beta S+32a\beta R$ (%)

Table 5b: Variation in Sterane Distribution (peak height) SIR for Well NOCS 6507/5-4A SKARV

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>Ratio8</u>	<u>Ratio9</u>	<u>Ratio10</u>	<u>Sample</u>
3159.00	bulk	0.55	30.41	62.35	1.10	0.73	0.31	0.23	0.45	0.44	1.19	0014-0
3312.00	bulk	0.79	47.42	68.65	0.99	0.70	0.41	0.31	0.52	0.90	2.08	0015-0
3733.60	bulk	0.81	52.23	78.91	1.11	0.78	0.43	0.31	0.65	1.09	3.92	0010-0
3748.70	bulk	0.79	50.24	78.69	1.08	0.79	0.40	0.28	0.65	1.01	3.71	0011-0
3769.00	bulk	0.77	49.07	78.11	1.03	0.78	0.35	0.24	0.64	0.96	3.50	0003-0
3784.00	bulk	0.76	49.35	77.96	1.03	0.78	0.37	0.26	0.64	0.97	3.49	0004-0
3805.00	bulk	0.75	49.96	77.43	0.94	0.77	0.35	0.25	0.63	1.00	3.43	0005-0
3826.00	bulk	0.73	48.60	76.40	0.89	0.77	0.26	0.18	0.62	0.95	3.15	0006-0
3868.00	bulk	0.77	49.95	77.77	1.02	0.78	0.34	0.24	0.64	1.00	3.50	0008-0
3877.00	bulk	0.76	53.33	71.46	1.10	0.70	0.39	0.30	0.56	1.14	2.68	0009-0

List of Sterane Distribution Ratios

Ratio 1: $27d\beta S / 27d\beta S + 27aaR$

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

Ratio 3: $2 * (29\beta\beta R + 29\beta\beta S) / (29aaS + 29aaR + 2 * (29\beta\beta R + 29\beta\beta S))$ (%)

Ratio 4: $27d\beta S + 27d\beta R + 27daR + 27daS / 29d\beta S + 29d\beta R + 29daR + 29daS$

Ratio 5: $29\beta\beta R + 29\beta\beta S / 29\beta\beta R + 29\beta\beta S + 29aaS$

Ratio 6: $21a + 22a / 21a + 22a + 29aaS + 29\beta\beta R + 29\beta\beta S + 29aaR$

Ratio 7: $21a + 22a / 21a + 22a + 28daS + 28aaS + 29daR + 29aaS + 29\beta\beta R + 29\beta\beta S + 29aaR$

Ratio 8: $29\beta\beta R + 29\beta\beta S / 29aaS + 29\beta\beta R + 29\beta\beta S + 29aaR$

Ratio 9: $29aaS / 29aaR$

Ratio 10: $29\beta\beta R + 29\beta\beta S / 29aaR$

Table 5c: Raw triterpane data (peak height) m/z 191 SIR for Well NOCS 6507/5-4A SKARV

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	300	30aß	30ßa	30G	31aßS	
		31aßR	32aßS	32aßR	33aßS	33aßR	34aßS	34aßR	35aßS	35aßR	
3159.00	bulk	72009.7 357849.5 155508.0	50456.3 114327.9 79558.2	24281.6 41069.8 63362.9	58094.2 88677.6 44416.9	17072.7 0.0 31439.5	102355.1 553125.3 27700.4	186414.0 104012.7 17960.6	79441.6 0.0 18158.6	102514.3 197819.1 11226.9	0014-0
3312.00	bulk	54468.0 250709.7 85447.3	43978.5 85870.3 73355.4	18169.9 50586.6 52332.9	52654.1 54269.5 50311.0	13354.2 15048.6 30779.1	85632.3 380411.8 35322.4	155235.5 67356.4 19734.2	58513.3 11122.9 24731.3	284627.1 132894.8 13674.7	0015-0
3733.60	bulk	34539.6 124187.7 67227.8	29713.3 48337.6 62609.9	14249.7 23797.7 39828.5	27852.9 12508.7 35479.0	8350.2 0.0 24879.7	56624.6 255153.9 23302.1	48003.2 21058.1 13995.1	53768.9 17285.1 19892.5	9007.4 102015.8 11532.9	0010-0
3748.70	bulk	33672.3 134788.6 75455.1	28543.2 52727.5 71365.1	13929.4 26228.5 45527.2	26970.2 14195.3 45449.9	8400.4 0.0 28269.0	59504.5 274252.2 27689.1	52459.6 23422.8 16089.3	57838.0 19731.2 23305.6	9782.7 114409.8 13941.9	0011-0
3769.00	bulk	65432.0 272303.7 152292.7	53624.6 98596.2 139623.4	26653.8 45159.4 91599.0	52761.6 27012.1 87290.6	16134.0 0.0 55140.0	110327.2 549767.7 54718.6	113377.0 48243.9 33192.7	103774.7 39290.7 46583.6	17399.7 231393.6 28242.3	0003-0
3784.00	bulk	54831.8 249521.1 141028.6	46389.4 90411.3 129708.1	23061.9 40684.1 85658.6	48616.3 24610.9 80006.9	13812.6 0.0 52249.9	98266.0 507146.6 51132.4	100276.8 44666.9 30525.6	98380.3 35327.6 43689.4	14853.1 206240.9 25902.4	0004-0
3805.00	bulk	26306.1 158699.7 87922.1	19122.3 50580.3 77117.0	9545.5 23378.5 50317.3	28373.8 16526.4 46593.1	5907.3 0.0 30319.7	50282.5 308242.9 28621.7	67948.4 33197.5 17071.4	49999.4 19213.0 21698.5	8310.2 130816.2 12734.1	0005-0

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	300	30aß	30ßa	30G	31aßS	
		31aßR	32aßS	32aßR	33aßS	33aßR	34aßS	34aßR	35aßS	35aßR	
3826.00	bulk	14108.2 174542.9 94919.3	10285.1 41658.6 77734.5	5566.4 22900.5 49438.0	25419.5 17074.8 42288.8	3729.6 0.0 27657.8	35328.1 311708.1 25606.9	76531.6 39473.4 14908.1	38720.9 19358.7 16235.4	7394.9 139226.0 9365.1	0006-0
3868.00	bulk	61743.0 371320.6 207679.7	47944.5 120856.6 183160.6	25086.4 63398.4 116812.8	66014.1 38745.4 114917.9	15174.9 0.0 73129.4	116145.9 712511.7 70873.6	150476.1 73586.0 40797.2	113164.9 47946.4 52871.7	22119.3 309758.0 31906.1	0008-0
3877.00	bulk	31269.7 233809.2 133429.7	12701.4 78810.7 118336.6	5491.8 48339.9 76027.2	46740.5 20135.7 70014.0	4054.7 0.0 44484.4	45436.2 439906.4 39064.8	100241.4 58363.9 23054.4	18187.2 32824.4 16730.1	11010.8 196071.7 9127.7	0009-0

Table 5d: Raw sterane data (peak height) m/z 217 SIR for Well NOCS 6507/5-4A SKARV

Depth unit of measure: m

Depth	Lithology	21a	22a	27dBS	27dBR	27daR	27daS	28dBS	28dBR	28daR*	Sample
		29dBS*	28daS*	27aaR	29dBR	29daR	28aaS	29daS*	28BS		
		28aaR	29aaS	29BR	29BS	29aaR					
3159.00	bulk	67441.2	33586.1	120736.9	72393.2	39803.6	32560.3	67507.2	34541.4	50209.7	0014-0
		109775.3	53221.8	96972.3	65456.2	25791.1	24439.2	40130.8	50462.6		
		64627.7	38006.4	60863.1	42635.9	86972.5					
3312.00	bulk	58045.3	27575.8	121527.6	71075.6	35950.7	30491.2	67242.9	32594.8	27604.8	0015-0
		128021.4	37576.8	31815.6	83043.1	29441.0	12610.3	20180.2	42084.6		
		16335.2	28087.0	36397.8	28461.8	31139.1					
3733.60	bulk	50984.2	25822.9	79138.7	42223.5	23094.7	18421.4	39082.1	19131.6	19564.2	0010-0
		73440.3	35958.3	18133.1	36516.0	13812.3	11055.4	23137.9	32852.1		
		8431.5	18489.9	33798.3	32420.7	16911.4					
3748.70	bulk	48738.5	24535.2	80542.7	45953.5	23981.8	18615.2	40739.8	19889.5	20605.8	0011-0
		77672.1	38289.4	20906.2	38944.3	15039.8	12095.0	25469.1	35485.8		
		9164.3	19803.0	37216.5	35584.4	19616.8					
3769.00	bulk	78115.8	42564.1	146550.5	86480.4	42350.6	35439.1	76542.8	36291.7	40685.6	0003-0
		147882.6	74160.4	44585.0	73609.9	28720.4	24103.9	50237.6	66877.0		
		18680.9	39636.3	74855.9	69295.5	41141.4					
3784.00	bulk	79415.4	40169.6	127895.3	76572.3	39000.3	30567.4	67946.5	32559.2	36716.4	0004-0
		130798.9	67094.5	40112.7	64683.9	25494.9	21696.4	45149.0	60169.7		
		16766.7	36157.9	66411.6	63153.0	37113.9					

* 28daR coel with 27aaS, 29dBS coel with 27BR, 28daS coel with 27BS, 29daS coel with 28BR

Depth unit of measure: m

Depth	Lithology	21a	22a	27dBS	27dBR	27daR	27daS	28dBS	28dBR	28daR*	Sample
		29dBS*	28daS*	27aaR	29dBR	29daR	28aaS	29daS*	28BBS		
		28aaR	29aaS	29BBR	29BBS	29aaR					
3805.00	bulk	36600.0 63759.9 7691.7	18709.1 31379.6 18943.2	57418.2 19616.9 33555.4	33165.1 32075.0 31501.7	18362.5 12727.1 18976.4	14397.7 10220.5	30267.9 22046.8	15208.0 28496.6	16691.5	0005-0
3826.00	bulk	18205.8 46509.4 5586.8	8851.5 21452.2 14245.0	38824.0 14109.5 24337.0	23113.5 24074.8 23109.3	13054.7 9199.6 15066.6	9649.5 7319.9	20909.6 14806.3	10211.0 19367.5	11836.7	0006-0
3868.00	bulk	81459.9 161147.2 18938.6	41933.0 76775.5 44120.9	156452.6 45906.9 78730.7	90675.2 78355.1 75817.9	45757.6 30507.1 44217.7	36889.8 24695.7	77282.0 51894.7	37760.6 71070.4	41453.8	0008-0
3877.00	bulk	43952.0 63866.0 6765.1	17338.1 25107.6 22408.4	64083.3 20720.6 27090.6	36023.6 35172.6 25511.1	21626.9 13282.9 19608.8	16191.9 7790.8	24206.0 13284.6	11875.0 18625.6	16474.4	0009-0

* 28daR coel with 27aaS, 29dBS coel with 27BBR, 28daS coel with 27BBS, 29daS coel with 28BBS

Table 5e: Raw sterane data (peak height) m/z 218 SIR for Well NOCS 6507/5-4A SKARV

Depth unit of measure: m

Depth	Lithology	27 β BR	27 β BS	28 β BR	28 β BS	29 β BR	29 β BS	30 β BR	30 β BS	Sample
3159.00	bulk	87706.2	61519.9	55887.5	65209.5	72686.6	69351.3	13651.0	15082.4	0014-0
3312.00	bulk	64990.1	35357.4	26795.9	44131.4	44295.5	45931.7	9962.2	10796.8	0015-0
3733.60	bulk	63979.1	47302.1	36850.2	43748.1	51501.1	55343.1	12737.0	12481.0	0010-0
3748.70	bulk	67919.3	49371.5	39252.3	46716.1	55982.5	60659.7	14006.2	13530.1	0011-0
3769.00	bulk	131891.4	95698.3	80955.7	91129.4	109862.9	117677.5	27728.5	26745.4	0003-0
3784.00	bulk	117525.1	87254.6	73382.8	82369.5	98198.4	107457.3	25769.3	24512.9	0004-0
3805.00	bulk	55900.4	40667.6	35755.7	39016.1	50120.1	54326.2	11900.3	11579.6	0005-0
3826.00	bulk	37427.9	26624.7	23254.7	26385.3	36220.3	39342.6	7442.9	7144.0	0006-0
3868.00	bulk	138369.8	98761.5	80288.2	93508.9	120054.0	129477.7	28307.7	27160.8	0008-0
3877.00	bulk	43823.8	28988.3	20042.4	23523.4	38904.4	43205.4	6036.2	5659.3	0009-0

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>25nor28aβ</u>	<u>25nor30aβ</u>	<u>Sample</u>
3159.00	bulk	125952.1	75126.2	0014-0
3312.00	bulk	78824.1	208451.5	0015-0
3733.60	bulk	41974.8	3711.2	0010-0
3748.70	bulk	43557.4	4281.1	0011-0
3769.00	bulk	82067.6	9696.5	0003-0
3784.00	bulk	81362.1	8124.4	0004-0
3805.00	bulk	75347.6	4179.0	0005-0
3826.00	bulk	42338.9	3352.7	0006-0
3868.00	bulk	100029.6	8394.3	0008-0
3877.00	bulk	7197.1	1748.2	0009-0

Table 5g: Amount of triterpanes (ppb) m/z 191 SIR for Well NOCS 6507/5-4A SKARV

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	29Ba	300	30aß	30Ba	30G	31aßS	
		31aßR	32aßS	32aßR	33aßS	33aßR	34aßS	34aßR	35aßS	35aßR	
3159.00	bulk	40179.3	28153.1	13548.4	32414.9	9526.1	57111.2	104013.7	44326.2	57200.0	0014-0
		199669.7	63791.7	22915.8	49479.5	0.0	308628.1	58036.1	0.0	110377.4	
		86769.0	44391.2	35354.7	24783.4	17542.4	15456.0	10021.5	10132.0	6264.3	
3312.00	bulk	64552.6	52121.0	21534.0	62402.8	15826.7	101486.9	183976.9	69346.9	337325.0	0015-0
		297127.9	101769.0	59952.5	64317.3	17834.8	450844.0	79827.2	13182.3	157499.9	
		101267.6	86936.9	62022.1	59626.0	36477.7	41862.3	23387.9	29310.3	16206.5	
3733.60	bulk	63146.2	54322.7	26051.7	50921.4	15266.1	103522.6	87760.7	98301.6	16467.6	0010-0
		227043.1	88371.9	43507.6	22868.7	0.0	466478.8	38498.9	31601.1	186507.8	
		122907.6	114465.0	72815.5	64863.6	45485.6	42601.5	25586.2	36368.0	21084.8	
3748.70	bulk	60484.2	51271.0	25020.7	48445.4	15089.3	106885.5	94230.9	103892.0	17572.3	0011-0
		242115.2	94712.2	47113.2	25498.4	0.0	492627.8	42073.4	35442.4	205509.6	
		135536.9	128190.1	81778.6	81639.8	50778.4	49736.8	28900.5	41862.9	25043.3	
3769.00	bulk	55441.9	45437.2	22584.3	44706.0	13670.7	93482.6	96066.7	87930.5	14743.1	0003-0
		230728.6	83542.6	38264.5	22887.9	0.0	465829.7	40878.1	33291.8	196064.6	
		129040.8	118305.8	77613.7	73963.1	46721.2	46364.2	28124.9	39471.2	23930.3	
3784.00	bulk	44669.0	37791.4	18787.5	39605.5	11252.5	80052.9	81691.0	80146.0	12100.2	0004-0
		203273.6	73654.0	33143.5	20049.4	0.0	413149.5	36388.1	28779.8	168015.2	
		114889.6	105667.4	69782.2	65178.0	42565.6	41655.3	24867.8	35591.8	21101.5	
3805.00	bulk	39462.1	28685.6	14319.3	42563.7	8861.6	75429.2	101930.0	75004.5	12466.2	0005-0
		238066.9	75876.0	35070.3	24791.5	0.0	462398.0	49799.9	28821.6	196238.6	
		131892.7	115683.9	75481.4	69894.8	45482.9	42935.7	25608.9	32550.1	19102.5	

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	300	30aß	30ßa	30G	31aßS	
		31aßR	32aßS	32aßR	33aßS	33aßR	34aßS	34aßR	35aßS	35aßR	
3826.00	bulk	21444.8	15633.5	8461.1	38638.1	5669.0	53699.4	116329.4	58856.5	11240.5	0006-0
		265308.5	63321.9	34809.2	25954.1	0.0	473802.2	60000.2	29425.6	211626.1	
		144279.1	118157.9	75146.7	64279.8	42040.3	38923.0	22660.5	24678.1	14235.2	
3868.00	bulk	48871.2	37949.3	19856.6	52251.9	12011.4	91932.5	119105.8	89573.0	17508.0	0008-0
		293910.0	95661.2	50181.5	30668.0	0.0	563971.8	58245.2	37950.8	245181.6	
		164384.0	144976.4	92460.4	90960.5	57883.8	56098.3	32292.0	41849.3	25254.5	
3877.00	bulk	47578.4	19325.8	8356.1	71118.0	6169.5	69133.5	152522.4	27672.7	16753.4	0009-0
		355752.7	119914.6	73551.6	30637.4	0.0	669340.1	88803.6	49944.0	298333.1	
		203020.1	180055.2	115679.3	106529.9	67685.3	59439.0	35078.4	25455.7	13888.3	

Table 5h. Amount of steranes (ppb) m/z 217 SIR for Well NOCS 6507/5-4A SKARV

Depth unit of measure: m

Depth	Lithology	21a	22a	27dBS	27dBR	27daR	27daS	28dBS	28dBR	28daR*	Sample
		29dBS*	28daS*	27aaR	29dBR	29daR	28aaS	29daS*	28BS		
		28aaR	29aaS	29BR	29BS	29aaR					
3159.00	bulk	37630.2 61251.5 36060.4	18740.1 29696.2 21206.5	67367.7 54107.8 33959.9	40393.4 36522.7 23789.6	22209.3 14390.7 48528.1	18167.7 13636.4	37667.1 22391.9	19273.1 28156.7	28015.6	0014-0
3312.00	bulk	68792.2 151724.2 19359.7	32681.4 44534.0 33287.2	144028.1 37706.2 43136.7	84235.0 98418.3 33731.4	42606.9 34891.9 36904.4	36136.5 14945.1	79692.8 23916.5	38629.6 49876.5	32715.7	0015-0
3733.60	bulk	93210.5 134265.3 15414.7	47210.2 65739.8 33803.6	144683.5 33151.4 61791.0	77194.1 66759.4 59272.2	42222.4 25252.1 30917.8	33678.4 20211.7	71451.0 42301.3	34976.8 60061.0	35767.7	0010-0
3748.70	bulk	87546.9 139519.2 16461.5	44071.6 68777.7 35571.4	144675.5 37552.9 66850.5	82544.4 69954.1 63918.8	43077.6 27015.3 35236.9	33437.7 21725.7	73179.2 45749.0	35726.8 63741.7	37013.4	0011-0
3769.00	bulk	66189.2 125304.0 15828.7	36065.4 62837.6 33584.6	124175.3 37777.8 63427.0	73276.7 62371.2 58715.5	35884.5 24335.4 34860.0	30028.3 20423.7	64856.3 42567.4	30750.7 56666.3	34473.7	0003-0
3784.00	bulk	64696.2 106556.0 13659.1	32724.4 54658.9 29456.2	104190.5 32678.0 54102.6	62380.0 52695.0 51447.9	31771.8 20769.5 30235.0	24901.9 17675.1	55353.0 36780.8	26524.5 49017.5	29911.2	0004-0

* 28daR coel with 27aaS, 29dBS coel with 27BR, 28daS coel with 27BS, 29daS coel with 28BR

Depth unit of measure: m

Depth	Lithology	21a	22a	27dBS	27dBR	27daR	27daS	28dBS	28dBR	28daR*	Sample
		29dBS*	28daS*	27aaR	29dBR	29daR	28aaS	29daS*	28BS		
		28aaR	29aaS	29BSR	29BS	29aaR					
3805.00	bulk	54904.1	28065.8	86133.6	49751.2	27545.8	21598.1	45405.1	22813.6	25039.1	0005-0
		95646.8	47072.9	29427.5	48116.0	19092.1	15331.9	33072.6	42748.1		
		11538.3	28416.9	50336.7	47255.9	28466.7					
3826.00	bulk	27673.1	13454.5	59013.3	35132.9	19843.4	14667.4	31783.0	15520.9	17992.0	0006-0
		70695.2	32607.7	21446.6	36594.1	13983.6	11126.4	22505.9	29438.9		
		8492.0	21652.7	36992.7	35126.5	22901.5					
3868.00	bulk	64477.7	33191.1	123836.4	71771.8	36218.4	29199.3	61170.7	29888.5	32811.8	0008-0
		127552.3	60769.9	36336.5	62020.1	24147.2	19547.3	41076.0	56254.1		
		14990.4	34922.8	62317.5	60011.8	34999.5					
3877.00	bulk	66875.2	26380.8	97506.1	54811.8	32906.4	24636.8	36830.7	18068.4	25066.7	0009-0
		97175.4	38202.5	31527.5	53517.0	20210.6	11854.2	20213.2	28339.8		
		10293.4	34095.5	41219.7	38816.4	29835.7					

* 28daR coel with 27aaS, 29dBS coel with 27BSR, 28daS coel with 27BS, 29daS coel with 28BSR

Table 5i: Amount of standard and weight of sample for Well NOCS 6507/5-4A SKARV

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Standard</u>	<u>Amount</u>	<u>Weight</u>	<u>Sample</u>
3159.00	bulk	1045454.0	0.700	1.2	0014-0
3312.00	bulk	168755.4	0.700	3.5	0015-0
3733.60	bulk	32311.0	1.400	23.7	0010-0
3748.70	bulk	30806.2	1.400	25.3	0011-0
3769.00	bulk	485960.7	0.700	1.7	0003-0
3784.00	bulk	572839.6	0.700	1.5	0004-0
3805.00	bulk	518480.8	0.700	0.9	0005-0
3826.00	bulk	511689.6	0.700	0.9	0006-0
3868.00	bulk	401985.1	0.700	2.2	0008-0
3877.00	bulk	766761.4	0.700	0.6	0009-0

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>
3159.00	bulk	0.61	0.61	0.30	0.30	0.36	0014-0
3312.00	bulk	0.54	0.49	0.24	0.25	0.34	0015-0
3733.60	bulk	0.71	0.73	0.47	0.42	0.56	0010-0
3748.70	bulk	0.72	0.74	0.48	0.43	0.56	0011-0
3769.00	bulk	0.61	0.64	0.38	0.32	0.46	0003-0
3784.00	bulk	0.73	0.73	0.49	0.44	0.59	0004-0
3805.00	bulk	0.81	0.79	0.58	0.56	0.69	0005-0
3826.00	bulk	0.76	0.71	0.51	0.50	0.65	0006-0
3868.00	bulk	0.73	0.72	0.48	0.44	0.60	0008-0
3877.00	bulk	0.74	0.68	0.51	0.50	0.68	0009-0

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 6b: Variation in Monoaromatic Sterane Distribution (peak height) for Well NOCS 6507/5-4A SKARV

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>
3159.00	bulk	0.20	0.13	0.12	0.12	0014-0
3312.00	bulk	0.20	0.12	0.12	0.10	0015-0
3733.60	bulk	0.45	0.35	0.31	0.26	0010-0
3748.70	bulk	0.50	0.38	0.35	0.29	0011-0
3769.00	bulk	0.43	0.31	0.29	0.24	0003-0
3784.00	bulk	0.45	0.31	0.32	0.26	0004-0
3805.00	bulk	0.46	0.36	0.30	0.24	0005-0
3826.00	bulk	0.43	0.32	0.27	0.21	0006-0
3868.00	bulk	0.47	0.32	0.32	0.26	0008-0
3877.00	bulk	0.50	0.42	0.31	0.26	0009-0

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

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Ratio1</u>	<u>Ratio2</u>	<u>Sample</u>
3159.00	bulk	0.45	0.88	0014-0
3312.00	bulk	0.40	0.89	0015-0
3733.60	bulk	0.54	0.91	0010-0
3748.70	bulk	0.54	0.92	0011-0
3769.00	bulk	0.52	0.92	0003-0
3784.00	bulk	0.51	0.91	0004-0
3805.00	bulk	0.42	0.93	0005-0
3826.00	bulk	0.39	0.93	0006-0
3868.00	bulk	0.45	0.93	0008-0
3877.00	bulk	0.30	0.96	0009-0

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

Ratio2: $g1 / g1 + I1$

$C1+D1+E1+F1+G1+H1+I1 + c1+d1+e1+f1+g1$

Table 6d: Raw triaromatic sterane data (peak height) m/z 231 for Well NOCS 6507/5-4A SKARV

Depth unit of measure: m

Depth	Lithology	a1	b1	c1	d1	e1	f1	g1	Sample
3159.00	bulk	5142.4	5079.8	2387.8	9007.9	3701.6	5084.3	3277.9	0014-0
3312.00	bulk	31358.8	25244.8	22218.6	61807.0	35259.8	31413.7	26447.7	0015-0
3733.60	bulk	35639.8	38356.5	5429.2	28160.3	19622.5	15261.5	14231.7	0010-0
3748.70	bulk	46811.1	49772.6	7338.5	36277.8	25173.9	18772.4	17771.8	0011-0
3769.00	bulk	42910.9	48185.3	11159.6	50312.4	35489.0	27763.4	26881.0	0003-0
3784.00	bulk	43355.0	44313.8	6831.9	30148.6	21161.0	17602.6	16086.5	0004-0
3805.00	bulk	59895.4	54221.6	6917.4	27168.8	18786.1	13916.5	14476.1	0005-0
3826.00	bulk	33761.1	26345.5	5744.5	17924.5	13863.6	8710.9	10623.1	0006-0
3868.00	bulk	67566.7	64074.4	12811.1	44386.4	35348.2	24457.3	25029.4	0008-0
3877.00	bulk	143916.7	103961.7	28072.8	67849.2	59477.0	36880.3	49976.1	0009-0

Table 6e: Raw monoaromatic sterane data (peak height) m/z 253 for Well NOCS 6507/5-4A SKARV

Depth unit of measure: m

Depth	Lithology	A1	B1	C1	D1	E1	F1	G1	H1	I1	Sample
3159.00	bulk	1546.9	936.8	2213.1	1623.2	6363.6	1657.8	4690.6	2093.9	463.2	0014-0
3312.00	bulk	8601.2	4751.3	15033.8	11273.4	33520.0	10491.0	28629.0	16777.4	3272.1	0015-0
3733.60	bulk	20737.9	13607.2	18549.9	13511.1	25227.7	6360.5	21568.9	12414.0	1348.0	0010-0
3748.70	bulk	30448.3	18690.9	24467.2	15536.9	30235.1	7024.8	26298.9	16197.7	1589.9	0011-0
3769.00	bulk	32379.8	20070.3	29850.0	20774.3	43771.7	9578.1	35204.8	21689.9	2452.3	0003-0
3784.00	bulk	21130.3	11626.2	16118.6	12252.8	25319.9	5867.4	20370.4	12389.5	1519.8	0004-0
3805.00	bulk	11283.8	7482.9	10850.7	7361.3	13181.2	5178.1	13455.7	8561.3	1043.7	0005-0
3826.00	bulk	5944.2	3794.6	6033.2	3850.3	7899.5	3557.5	8272.3	5485.8	784.8	0006-0
3868.00	bulk	26139.9	14017.6	19948.5	14940.2	29657.4	7974.5	25895.7	15837.9	1814.2	0008-0
3877.00	bulk	21566.4	15378.4	16388.3	12371.6	21249.7	8558.5	25857.7	16905.6	2059.6	0009-0

Table 6f: Aromatic Hydrocarbons data (peak height) m/z 178/192 SIR for Well NOCS 6507/5-4A SKARV

Depth unit of measure: m

Depth	Lithology	P	3MP	2MP	9MP	1MP	MPI1	Sample
3159.00	bulk	401650.1	98983.0	111697.6	235906.1	155035.0	0.40	0014-0
3312.00	bulk	2221704.0	580876.6	728884.2	1285587.0	1050885.0	0.43	0015-0
3733.60	bulk	1613565.0	642698.9	734492.2	1240698.0	823465.0	0.56	0010-0
3748.70	bulk	2437241.0	976667.0	1095459.0	1691009.0	1107911.0	0.59	0011-0
3769.00	bulk	1755350.0	558829.8	675039.1	882413.5	648824.4	0.56	0003-0
3784.00	bulk	2651827.0	892696.7	1102575.0	1514598.0	1251635.0	0.55	0004-0
3805.00	bulk	5156229.0	1411245.0	1801677.0	2886436.0	1894091.0	0.49	0005-0
3826.00	bulk	4296054.0	959566.3	1183268.0	1789800.0	1222810.0	0.44	0006-0
3868.00	bulk	5620920.0	1391550.0	1654235.0	2535960.0	1981433.0	0.45	0008-0
3877.00	bulk	5107079.0	1358509.0	1530028.0	2077973.0	1944095.0	0.47	0009-0

Table 6g: Aromatic Hydrocarbons from m/z 142/156 (peak heights (SIR) for ARO FRACTION well NOCS 6507/5-4A SKARV

Well	Descript.	2MN	1MN	2EN	1EN	2.6+2.7-DMN	1.3+1.7-DMN	1.6-DMN	2.3+1.4-DMN	1.5-DMN	1.2-DMN	Sample
3159.00	bulk	293375.5	288439.0	35493.3	28709.7	291168.5	542188.7	395843.0	186136.0	106104.5	95376.9	U82/0014
3312.00	bulk	1437769.0	1187248.0	115918.6	75492.0	914810.1	1763949.0	1205791.0	645787.1	356618.2	335315.3	U82/0015
3733.60	bulk	3866106.0	3268007.0	568864.2	261078.1	2879424.0	4756854.0	3879604.0	1467576.0	979484.5	704019.8	U82/0010
3748.70	bulk	6629210.0	5622388.0	926110.6	370023.3	4498435.0	7412109.0	5234005.0	2259306.0	1520768.0	1128697.0	U82/0011
3769.00	bulk	2639.5	3843.2	11971.1	9241.3	118703.6	246397.7	195899.4	115794.5	75741.1	70874.3	U82/0003
3784.00	bulk	6558.1	10890.0	27654.8	21276.3	281463.8	569212.1	499468.5	229231.8	163870.9	137703.5	U82/0004
3805.00	bulk	77149.1	145162.2	135853.2	89304.1	878525.1	1771215.0	1519450.0	786776.6	438639.0	454399.3	U82/0005
3826.00	bulk	55255.3	93369.0	91875.4	60974.9	619083.0	1272820.0	909067.3	573683.6	322233.9	350867.2	U82/0006
3868.00	bulk	541335.2	636227.4	255658.9	176286.9	1616763.0	2658491.0	2548153.0	988639.6	568375.8	554661.3	U82/0008
3877.00	bulk	710.3	1147.9	4250.6	5150.9	37792.7	112469.7	101192.1	73322.4	46705.3	63147.4	U82/0009

Table 6h: Aromatic Hydrocarbons data (peak height) m/z 184/198 SIR for Well NOCS 6507/5-4A SKARV

Depth unit of measure: m

Depth	Lithology	DBT	4MDBT	2+3MDBT	1MDBT	Sample
3159.00	bulk	120462.7	100130.0	30444.4	31288.3	0014-0
3312.00	bulk	510923.3	480349.8	125538.9	119282.4	0015-0
3733.60	bulk	783615.3	833157.0	279438.6	212114.0	0010-0
3748.70	bulk	1098608.0	1218334.0	396680.9	282074.8	0011-0
3769.00	bulk	367688.4	446536.0	149228.3	105724.7	0003-0
3784.00	bulk	783660.0	927840.6	315408.4	248108.6	0004-0
3805.00	bulk	1466955.0	1095385.0	372136.0	331621.9	0005-0
3826.00	bulk	868482.2	530292.9	181572.9	165202.4	0006-0
3868.00	bulk	1192134.0	771708.6	304512.7	275815.7	0008-0
3877.00	bulk	398445.8	229427.2	104969.2	111981.2	0009-0

Table 6i: Amount of standard and weight of sample AROMATIC FRACTION for well NOCS 6507/5-4A SKARV

Depht	Descript.	Standard	Amount	Weight	Sample
3159.00	bulk	164459.9	1.416	0.5	U82/0014
3312.00	bulk	328919.1	1.416	0.6	U82/0015
3733.60	bulk	82127.3	2.360	11.1	U82/0010
3748.70	bulk	111406.9	2.360	12.0	U82/0011
3769.00	bulk	3308622.0	1.416	0.8	U82/0003
3784.00	bulk	1299429.0	1.416	1.0	U82/0004
3805.00	bulk	1088603.0	1.416	1.0	U82/0005
3826.00	bulk	510361.3	1.416	1.0	U82/0006
3868.00	bulk	770926.8	1.416	1.8	U82/0008
3877.00	bulk	2192358.0	1.416	0.5	U82/0009

Table 6j: Amount of triaromatic steranes (ppb) m/z 231 SIR for NOCS 6507/5-4A SKARV

Depth	Lithology	a1	b1	c1	d1	e1	f1	g1	Sample
3159.00	bulk	88552.1	87474.2	41117.9	155116.1	63741.6	87551.7	56445.4	U82/0014
3312.00	bulk	224999.9	181131.9	159418.8	443466.3	252989.7	225393.8	189762.7	U82/0015
3733.60	bulk	92264.9	99298.0	14055.2	72901.9	50799.1	39509.2	36843.3	U82/0010
3748.70	bulk	82635.7	87863.6	12954.7	64041.2	44439.5	33138.9	31372.6	U82/0011
3769.00	bulk	22955.9	25777.5	5970.0	26915.4	18985.4	14852.5	14380.4	U82/0003
3784.00	bulk	47244.4	48289.2	7444.8	32853.2	23059.3	19181.7	17529.6	U82/0004
3805.00	bulk	77908.9	70528.7	8997.8	35339.8	24436.0	18101.9	18829.8	U82/0005
3826.00	bulk	93670.3	73095.7	15938.1	49731.6	38464.6	24168.4	29473.8	U82/0006
3868.00	bulk	68946.2	65382.6	13072.7	45292.6	36069.9	24956.6	25540.4	U82/0008
3877.00	bulk	185905.8	134293.5	36263.3	87644.9	76830.0	47640.5	64557.1	U82/0009

Table 6k: Amount of monoaromatic steranes (ppb) m/z 253 SIR for NOCS 6507/5-4A SKARV

Depht	Descript.	A1	B1	C1	D1	E1	F1	G1	H1	I1	Sample
3159.00	bulk	26637.6	16131.7	38109.6	27951.5	109581.2	28547.3	80772.1	36057.0	7976.3	U82/0014
3312.00	bulk	61713.8	34090.7	107867.8	80886.8	240506.6	75273.1	205413.6	120378.1	23477.4	U82/0015
3733.60	bulk	53686.6	35226.6	48022.3	34977.8	65309.9	16466.2	55838.0	32137.6	3489.7	U82/0010
3748.70	bulk	53750.4	32995.1	43192.0	27427.3	53374.0	12400.9	46425.5	28593.8	2806.7	U82/0011
3769.00	bulk	17322.1	10736.9	15968.7	11113.5	23416.4	5124.0	18833.4	11603.4	1311.9	U82/0003
3784.00	bulk	23025.9	12669.2	17564.6	13352.0	27591.3	6393.8	22197.8	13501.0	1656.1	U82/0004
3805.00	bulk	14677.4	9733.4	14114.0	9575.2	17145.4	6735.4	17502.5	11136.1	1357.6	U82/0005
3826.00	bulk	16492.2	10528.1	16739.1	10682.7	21917.2	9870.3	22951.5	15220.4	2177.4	U82/0006
3868.00	bulk	26673.6	14303.8	20355.8	15245.2	30262.9	8137.3	26424.4	16161.3	1851.2	U82/0008
3877.00	bulk	27858.6	19865.2	21169.7	15981.1	27449.5	11055.5	33401.9	21838.0	2660.5	U82/0009

Table 7a: Tabulation of carbon isotope data for EOM/EOM - fractions for well NOCS 6507/5-4A SKARV

Depth unit of measure: m

<u>Depth</u>	<u>Typ</u>	<u>Lithology</u>	<u>EOM</u>	<u>Saturated</u>	<u>Aromatic</u>	<u>NSO</u>	<u>Asphaltenes</u>	<u>Kerogen</u>	<u>Sample</u>
3159.00	cut	bulk	-28.37	-28.73	-28.14	-28.75	-26.77	-	0014-0
3312.00	cut	bulk	-28.08	-28.43	-27.82	-28.76	-26.35	-	0015-0
3733.60	oil	bulk	-	-28.82	-27.78	-27.91	-27.83	-	0010-0
3748.70	oil	bulk	-	-28.77	-27.68	-27.88	-27.66	-	0011-0
3769.00	cut	bulk	-	-28.81	-27.76	-28.27	-27.41	-	0003-0
3784.00	cut	bulk	-	-28.70	-27.60	-28.21	-26.37	-	0004-0
3805.00	cut	bulk	-	-28.21	-26.82	-27.57	-25.07	-	0005-0
3826.00	cut	bulk	-	-28.67	-26.51	-27.96	-25.00	-	0006-0
3868.00	cut	bulk	-	-28.76	-27.41	-27.79	-25.38	-	0008-0
3877.00	cut	bulk	-	-29.11	-27.74	-28.07	-26.90	-	0009-0

Table 7b: Tabulation of cv values from carbon isotope data for well NOCS 6507/5-4A SKARV

Depth unit of measure: m

<u>Depth</u>	<u>Typ</u>	<u>Lithology</u>	<u>Saturated</u>	<u>Aromatic</u>	<u>cv value</u>	<u>Sample</u>
3159.00	cut	bulk	-28.73	-28.14	-1.43	0014-0
3312.00	cut	bulk	-28.43	-27.82	-1.48	0015-0
3733.60	oil	bulk	-28.82	-27.78	-0.41	0010-0
3748.70	oil	bulk	-28.77	-27.68	-0.31	0011-0
3769.00	cut	bulk	-28.81	-27.76	-0.39	0003-0
3784.00	cut	bulk	-28.70	-27.60	-0.31	0004-0
3805.00	cut	bulk	-28.21	-26.82	0.18	0005-0
3826.00	cut	bulk	-28.67	-26.51	2.03	0006-0
3868.00	cut	bulk	-28.76	-27.41	0.26	0008-0
3877.00	cut	bulk	-29.11	-27.74	0.42	0009-0

Oils

Appendix 1: TABLES

- 1a-c. Whole oil ratios
- 2a-c. Separation data
- 3. Saturated hydrocarbon ratios
- 4a-b. Aromatic hydrocarbon ratios
- 5a-i. Saturated hydrocarbon GC-MS data
- 6a-k. Aromatic hydrocarbon GC-MS data
- 7a-b. $\delta^{13}\text{C}$ Bulk isotope composition

Appendix 2: GAS CHROMATOGRAMS

- Whole oil gas chromatograms
- Saturated hydrocarbon fraction gas chromatograms
- Aromatic hydrocarbon fraction gas chromatograms (FID and FPD)

Appendix 3: GAS CHROMATOGRAPHY-MASS SPECTROMETRY, FRAGMENTOGRAMS

APPENDIX 1 :

Table 1A: Light Hydrocarbons from Whole Oil GC for 6507/5-4A

Well	Description	2,2DMC4	2,3DMC4	nC6	MCyC5	Benz	Sample
6507/5-4A	Stk, 3733.6	0.10	0.47	4.12	2.23	2.30	U82/0010
6507/5-4A	Stk, 3748.7	0.10	0.47	4.13	2.25	2.33	U82/0011

Table 1B: Light Hydrocarbons from Whole Oil GC for 6507/5-4A

Well	Description	CyC6	2MC6	3MC6	1,3ci- DMCyC5	1,3tr- DMCyC5	1,2tr- DMCyC5	nC7	MCyC6	Tol	nC8	p/m- Xylene	Sample
6507/5-4A	Stk, 3733.6	4.13	1.68	1.44	0.49	0.45	0.95	4.18	6.66	6.84	4.42	5.22	U82/0010
6507/5-4A	Stk, 3748.7	4.16	1.69	1.45	0.49	0.46	0.96	4.23	6.72	6.93	4.44	5.28	U82/0011

Table 1C: Thompson's indices for 6507/5-4A

Well	Description	A	B	X	W	C	I	F	H	U	R	S	Sample
6507/5-4A	Stk, 3733.6	0.56	1.64	1.18	5.57	0.77	1.65	0.63	20.44	1.85	2.49	41.20	U82/0010
6507/5-4A	Stk, 3748.7	0.56	1.64	1.19	5.60	0.77	1.64	0.63	20.50	1.85	2.50	41.30	U82/0011

THOMPSON'S INDICES

$$A = \frac{\text{Benzene}}{nC6}$$

$$B = \frac{\text{Toluene}}{nC7}$$

$$X = \frac{\text{p/m-xylene}}{nC8}$$

$$W = \frac{\text{Benzene} * 10}{\text{CyC6}}$$

$$C = \frac{nC6 + nC7}{\text{CyC6} + \text{MCyC6}}$$

$$I = \frac{2\text{MC6} + 3\text{MC6}}{1,3\text{ciDMCyC5} + 1,3\text{trDMCyC5} + 1,2\text{trDMCyC5}}$$

$$F = \frac{nC7}{\text{MCyC6}}$$

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

$$U = \frac{\text{CyC6}}{\text{MCyC5}}$$

$$R = \frac{nC7}{2\text{MC6}}$$

$$S = \frac{nC6}{2,2\text{DMC4}}$$

Table 2a: MPLC Bulk Composition: Weight of Oil and Fraction for 6507/5-4A

Well	Description	Whole oil (mg)	Light (mg)	Topped (mg)	Sat (mg)	Aro (mg)	Asph (mg)	NSO (mg)	HC (mg)	Non-HC (mg)	Sample
6507/5-4A	Stk, 3733.6	82.0	11.7	70.3	43.6	20.4	0.5	5.7	64.1	6.2	U82/0010
6507/5-4A	Stk, 3748.7	90.8	13.5	77.3	47.9	22.7	0.5	6.2	70.6	6.7	U82/0011

Table 2b: MPLC Bulk Composition: Comparison of topped oil (%) for 6507/5-4A

Well	Description	Sat	Aro	Asph	NSO	Total	HC	Non-HC	Recov. MPLC	Recov. Asph	Sample
6507/5-4A	Stk, 3733.6	62.09	29.08	0.71	8.12	100.00	91.17	8.83	-	0.01	U82/0010
6507/5-4A	Stk, 3748.7	61.91	29.37	0.65	8.08	100.00	91.28	8.72	-	0.01	U82/0011

Table 2c: MPLC Bulk Composition: Ratios in topped oil for 6507/5-4A

Well	Description	Sat	HC	Asp	Sample
		Aro	Non-HC	NSO	
6507/5-4A	Stk, 3733.6	2.14	10.32	0.09	U82/0010
6507/5-4A	Stk, 3748.7	2.11	10.46	0.08	U82/0011

Table 3: Saturated Hydrocarbon Ratios (peak area) for 6507/5-4A

Well	Description	<u>Pristane</u>	<u>Pristane</u>	<u>Pristane/nC17</u>	<u>Phytane</u>	CPI1	<u>nC17</u>	Sample
		nC17	Phytane	Phytane/nC18	nC18		nC17+nC27	
6507/5-4A	Stk, 3733.6	0.80	1.47	1.32	0.60	1.09	0.84	U82/0010
6507/5-4A	Stk, 3748.7	0.79	1.48	1.33	0.60	1.08	0.84	U82/0011

Table 4a: Aromatic Hydrocarbon Ratios (peak area) for 6507/5-4A

Well	Description	MNR	DMNR	BPhR	2/1MP	MPI1	MPI2	Rc	DBT/P	4/1MDBT	(3+2) /1MDBT	Sample
6507/5-4A	Stk,3733.6	1.32	3.41	0.29	1.17	0.89	0.90	0.94	0.28	5.28	1.95	U82/0010
6507/5-4A	Stk,3748.7	1.36	3.54	0.30	1.20	0.88	0.91	0.93	0.28	5.24	1.95	U82/0011

Table 4b: Aromatic Hydrocarbon Ratios (peak area) for 6507/5-4A

Well	Description	F1	F2	Sample
6507/5-4A	Stk,3733.6	0.50	0.25	U82/0010
6507/5-4A	Stk,3748.7	0.51	0.26	U82/0011

Table 5a: Variation in Triterpane Distribution (peak height) SIR for 6507/5-4A

Well	Descript.	Ratio1	Ratio2	Ratio3	Ratio4	Ratio5	Ratio6	Ratio7	Ratio8	Ratio9	Rat.10	Rat.11	Rat.12	Rat.13	Rat.14	Sample
6507/5-4A	Stk, 3733.6	0.85	0.46	0.15	0.49	0.33	0.09	0.21	0.43	0.17	0.12	0.92	0.33	0.09	61.12	U82/0010
6507/5-4A	Stk, 3748.7	0.88	0.47	0.15	0.49	0.33	0.10	0.21	0.43	0.17	0.10	0.92	0.33	0.09	61.05	U82/0011

List of Triterpane Distribution Ratios

Ratio 1: 27Tm / 27Ts

Ratio 2: 27Tm / 27Tm+27Ts

Ratio 3: 27Tm / 27Tm+30aβ+30βa

Ratio 4: 29aβ / 30aβ

Ratio 5: 29aβ / 29aβ+30aβ

Ratio 6: 30d / 30aβ

Ratio 7: 28aβ / 30aβ

Ratio 8: 28aβ / 29aβ

Ratio 9: 28aβ / 28aβ+30aβ

Ratio 10: 24/3 / 30aβ

Ratio 11: 30aβ / 30aβ+30βa

Ratio 12: 29aβ+29βa / 29aβ+29βa+30aβ+30βa

Ratio 13: 29βa+30βa / 29aβ+30aβ

Ratio 14: 32aβS / 32aβS+32aβR (%)

Table 5b: Variation in Sterane Distribution (peak height) SIR for 6507/5-4A

<u>Well</u>	<u>Descript.</u>	<u>Ratio1</u>	<u>Ratio2</u>	<u>Ratio3</u>	<u>Ratio4</u>	<u>Ratio5</u>	<u>Ratio6</u>	<u>Ratio7</u>	<u>Ratio8</u>	<u>Ratio9</u>	<u>Ratio10</u>	<u>Sample</u>
6507/5-4A	Stk,3733.6	0.81	52.23	78.91	1.11	0.78	0.43	0.31	0.65	1.09	3.92	U82/0010
6507/5-4A	Stk,3748.7	0.79	50.24	78.69	1.08	0.79	0.40	0.28	0.65	1.01	3.71	U82/0011

List of Sterane Distribution Ratios

Ratio 1: $27d\beta S / 27d\beta S + 27aaR$

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

Ratio 3: $2 * (29\beta\beta R + 29\beta\beta S) / (29aaS + 29aaR + 2 * (29\beta\beta R + 29\beta\beta S))$ (%)

Ratio 4: $27d\beta S + 27d\beta R + 27daR + 27daS / 29d\beta S + 29d\beta R + 29daR + 29daS$

Ratio 5: $29\beta\beta R + 29\beta\beta S / 29\beta\beta R + 29\beta\beta S + 29aaS$

Ratio 6: $21a + 22a / 21a + 22a + 29aaS + 29\beta\beta R + 29\beta\beta S + 29aaR$

Ratio 7: $21a + 22a / 21a + 22a + 28daS + 28aaS + 29daR + 29aaS + 29\beta\beta R + 29\beta\beta S + 29aaR$

Ratio 8: $29\beta\beta R + 29\beta\beta S / 29aaS + 29\beta\beta R + 29\beta\beta S + 29aaR$

Ratio 9: $29aaS / 29aaR$

Ratio 10: $29\beta\beta R + 29\beta\beta S / 29aaR$

Table 5c: Raw triterpane data (peak height) m/z 191 SIR for 6507/5-4A

Well	Descript.	23/3	24/3	25/3	24/4	26/3	27Ts	27Tm	28aß	25nor30aß	Sample
		29aß	29Ts	30d	29ßa	300	30aß	30ßa	30G	31aßS	
		31aßR	32aßS	32aßR	33aßS	33aßR	34aßS	34aßR	35aßS	35aßR	
6507/5-4A	Stk, 3733.6	34539.6 124187.7 67227.8	29713.3 48337.6 62609.9	14249.7 23797.7 39828.5	27852.9 12508.7 35479.0	8350.2 0.0 24879.7	56624.6 255153.9 23302.1	48003.2 21058.1 13995.1	53768.9 17285.1 19892.5	9007.4 102015.8 11532.9	U82/0010
6507/5-4A	Stk, 3748.7	33672.3 134788.6 75455.1	28543.2 52727.5 71365.1	13929.4 26228.5 45527.2	26970.2 14195.3 45449.9	8400.4 0.0 28269.0	59504.5 274252.2 27689.1	52459.6 23422.8 16089.3	57838.0 19731.2 23305.6	9782.7 114409.8 13941.9	U82/0011

Table 5d: Raw sterane data (peak height) m/z 217 SIR for 6507/5-4A

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					
6507/5-4A	Stk, 3733.6	50984.2 73440.3 8431.5	25822.9 35958.3 18489.9	79138.7 18133.1 33798.3	42223.5 36516.0 32420.7	23094.7 13812.3 16911.4	18421.4 11055.4	39082.1 23137.9	19131.6 32852.1	19564.2	U82/0010
6507/5-4A	Stk, 3748.7	48738.5 77672.1 9164.3	24535.2 38289.4 19803.0	80542.7 20906.2 37216.5	45953.5 38944.3 35584.4	23981.8 15039.8 19616.8	18615.2 12095.0	40739.8 25469.1	19889.5 35485.8	20605.8	U82/0011

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

Table 5e: Raw sterane data (peak height) m/z 218 SIR for 6507/5-4A

Well	Descript.	27 β β R	27 β β S	28 β β R	28 β β S	29 β β R	29 β β S	30 β β R	30 β β S	Sample
6507/5-4A	Stk, 3733.6	63979.1	47302.1	36850.2	43748.1	51501.1	55343.1	12737.0	12481.0	U82/0010
6507/5-4A	Stk, 3748.7	67919.3	49371.5	39252.3	46716.1	55982.5	60659.7	14006.2	13530.1	U82/0011

Table 5f: Raw triterpane data (peak height) m/z 177 SIR for 6507/5-4A

Well	Descript.	25nor28a β	25nor30a β	Sample
6507/5-4A	Stk, 3733.6	41974.8	3711.2	U82/0010
6507/5-4A	Stk, 3748.7	43557.4	4281.1	U82/0011

Table 5g: Amount of triterpanes (ppb) m/z 191 SIR for 6507/5-4A

Well	Descript.	23/3	24/3	25/3	24/4	26/3	27Ts	27Tm	28a β	25nor30a β	Sample
		29a β	29Ts	30d	29 β a	300	30a β	30 β a	30G	31a β S	
		31a β R	32a β S	32a β R	33a β S	33a β R	34a β S	34a β R	35a β S	35a β R	
6507/5-4A	Stk, 3733.6	63146.2	54322.7	26051.7	50921.4	15266.1	103522.6	87760.7	98301.6	16467.6	U82/0010
		227043.1	88371.9	43507.6	22868.7	0.0	466478.8	38498.9	31601.1	186507.8	
		122907.6	114465.0	72815.5	64863.6	45485.6	42601.5	25586.2	36368.0	21084.8	
6507/5-4A	Stk, 3748.7	60484.2	51271.0	25020.7	48445.4	15089.3	106885.5	94230.9	103892.0	17572.3	U82/0011
		242115.2	94712.2	47113.2	25498.4	0.0	492627.8	42073.4	35442.4	205509.6	
		135536.9	128190.1	81778.6	81639.8	50778.4	49736.8	28900.5	41862.9	25043.3	

Table 5h: Amount of steranes (ppb) m/z 217 SIR for 6507/5-4A

Well	Descript.	21a	22a	27dBS	27dBR	27daR	27daS	28dBS	28dBR	28daR*	Sample
		29dBS*	28daS*	27aaR	29dBR	29daR	28aaS	29daS*	28BS		
		28aaR	29aaS	29BR	29BS	29aaR					
6507/5-4A	Stk, 3733.6	93210.5	47210.2	144683.5	77194.1	42222.4	33678.4	71451.0	34976.8	35767.7	U82/0010
		134265.3	65739.8	33151.4	66759.4	25252.1	20211.7	42301.3	60061.0		
		15414.7	33803.6	61791.0	59272.2	30917.8					
6507/5-4A	Stk, 3748.7	87546.9	44071.6	144675.5	82544.4	43077.6	33437.7	73179.2	35726.8	37013.4	U82/0011
		139519.2	68777.7	37552.9	69954.1	27015.3	21725.7	45749.0	63741.7		
		16461.5	35571.4	66850.5	63918.8	35236.9					

* 28daR coel with 27aaS, 29dBS coel with 27BR, 28daS coel with 27BS, 29daS coel with 28BR

Table 5i: Amount of standard and weight of sample for 6507/5-4A

Well	Descript.	Standard	Amount	Weight	Sample
6507/5-4A	Stk, 3733.6	32311.0	1.400	23.7	U82/0010
6507/5-4A	Stk, 3748.7	30806.2	1.400	25.3	U82/0011

Table 6a: Variation in Triaromatic Sterane Distribution (peak height) for 6507/5-4A

<u>Well</u>	<u>Descript.</u>	<u>Ratio1</u>	<u>Ratio2</u>	<u>Ratio3</u>	<u>Ratio4</u>	<u>Ratio5</u>	<u>Sample</u>
6507/5-4A	Stk,3733.6	0.71	0.73	0.47	0.42	0.56	U82/0010
6507/5-4A	Stk,3748.7	0.72	0.74	0.48	0.43	0.56	U82/0011

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 6b: Variation in Monoaromatic Sterane Distribution (peak height) for 6507/5-4A

<u>Well</u>	<u>Descript.</u>	<u>Ratio1</u>	<u>Ratio2</u>	<u>Ratio3</u>	<u>Ratio4</u>	<u>Sample</u>
6507/5-4A	Stk,3733.6	0.45	0.35	0.31	0.26	U82/0010
6507/5-4A	Stk,3748.7	0.50	0.38	0.35	0.29	U82/0011

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 6c: Aromatisation of Steranes (peak height) for 6507/5-4A

Well	Descript.	Ratio1	Ratio2	Sample
6507/5-4A	Stk,3733.6	0.54	0.91	U82/0010
6507/5-4A	Stk,3748.7	0.54	0.92	U82/0011

Ratio1: $\frac{C1+D1+E1+F1+G1+H1+I1}{C1+D1+E1+F1+G1+H1+I1 + c1+d1+e1+f1+g1}$ Ratio2: $g1 / g1 + I1$

Table 6d: Raw triaromatic sterane data (peak height) m/z 231 for 6507/5-4A

Well	Descript.	a1	b1	c1	d1	e1	f1	g1	Sample
6507/5-4A	Stk,3733.6	35639.8	38356.5	5429.2	28160.3	19622.5	15261.5	14231.7	U82/0010
6507/5-4A	Stk,3748.7	46811.1	49772.6	7338.5	36277.8	25173.9	18772.4	17771.8	U82/0011

Table 6e: Raw monoaromatic sterane data (peak height) m/z 253 for 6507/5-4A

Well	Descript.	A1	B1	C1	D1	E1	F1	G1	H1	I1	Sample
6507/5-4A	Stk,3733.6	20737.9	13607.2	18549.9	13511.1	25227.7	6360.5	21568.9	12414.0	1348.0	U82/0010
6507/5-4A	Stk,3748.7	30448.3	18690.9	24467.2	15536.9	30235.1	7024.8	26298.9	16197.7	1589.9	U82/0011

Table 6f: Aromatic Hydrocarbons data (peak height) m/z 178/192 SIR for 6507/5-4A

Well	Descript.	P	3MP	2MP	9MP	1MP	MPI1	Sample
6507/5-4A	Stk,3733.6	1613565.0	642698.9	734492.2	1240698.0	823465.0	0.56	U82/0010
6507/5-4A	Stk,3748.7	2437241.0	976667.0	1095459.0	1691009.0	1107911.0	0.59	U82/0011

Table 6g: Aromatic Hydrocarbons from m/z 142/156 (peak heights (SIR) for ARO FRACTION well NOCS 6507/5-4A SKARV OILS

Well	Descript.	2MN	1MN	2EN	1EN	2.6+2.7-DMN	1.3+1.7-DMN	1.6-DMN	2.3+1.4-DMN	1.5-DMN	1.2-DMN	Sample
6507/5-4A	Stk,3733.6	3866106	3268007	568864.2	261078.1	2879424	4756854	3879604	1467576	979484.5	704019.8	U82/0010
6507/5-4A	Stk,3748.7	6629210	5622388	926110.6	370023.3	4498435	7412109	5234005	2259306	1520768	1128697	U82/0011

Table 6h: Aromatic Hydrocarbons data (peak height) m/z 184/198 SIR for 6507/5-4A

Well	Descript.	DBT	4MDBT	2+3MDBT	1MDBT	Sample
6507/5-4A	Stk, 3733.6	783615.3	833157.0	279438.6	212114.0	U82/0010
6507/5-4A	Stk, 3748.7	1098608.0	1218334.0	396680.9	282074.8	U82/0011

Table 6i: Amount of standard and weight of sample AROMATIC FRACTION for well NOCs 6507/5-4A SKARV

Well	Descript.	Standard	Amount	Weight	Sample
6507/5-4A	Stk, 3733.6	82127.3	2.360	11.1	U82\0010
6507/5-4A	Stk, 3748.7	111406.9	2.360	12.0	U82\0011

Table 6j: Amount of triaromatic steranes (ppb) m/z 231 SIR for NOCS 6507/5-4A SKARV

Well	Descript.	a1	b1	c1	d1	e1	f1	g1	Sample
6507/5-4A	Stk, 3733.6	92265.0	99298.0	14055.2	72901.9	50799.1	39509.2	36843.3	U82\0010
6507/5-4A	Stk, 3748.7	82635.7	87863.6	12954.7	64041.2	44439.5	33138.9	31372.6	U82\0011

Table 6k: Amount of monoaromatic steranes (ppb) m/z 253 SIR for NOCS 6507/5-4A SKARV

Well	Descript.	A1	B1	C1	D1	E1	F1	G1	H1	I1	Sample
6507/5-4A	Stk, 3733.6	53686.6	35226.6	48022.3	34977.8	65309.9	16466.2	55838.0	32137.6	3489.7	U82/0010
6507/5-4A	Stk, 3748.7	53750.4	32995.1	43192.0	27427.3	53374.0	12400.9	46425.5	28593.8	2806.7	U82/0011

Table 7a: Tabulation of carbon isotope data on oils for 6507/5-4A

<u>Well</u>	<u>Descript.</u>	<u>Whole oil</u>	<u>Topped oil</u>	<u>Saturated</u>	<u>Aromatic</u>	<u>NSO</u>	<u>Asphaltenes</u>	<u>Sample</u>
6507/5-4A	Stk, 3733.6	-28.16	-	-28.82	-27.78	-27.91	-27.83	U82/0010
6507/5-4A	Stk, 3748.7	-28.05	-	-28.77	-27.68	-27.88	-27.66	U82/0011

Table 7b: Tabulation of cv values from carbon isotope data for 6507/5-4A

<u>Well</u>	<u>Descript.</u>	<u>Saturated</u>	<u>Aromatic</u>	<u>cv value</u>	<u>Sample</u>
6507/5-4A	Stk, 3733.6	-28.82	-27.78	-0.41	U82/0010
6507/5-4A	Stk, 3748.7	-28.77	-27.68	-0.31	U82/0011