2.0 TESTING OPERATIONS AND RESULTS

2.1 FORMATION PRESSURE TEST
(RFT/SFT)

A total of 35 pressure tests were performed with the RFT in 8 1/2 inch hole in the Jurrasic. 19 of these gave reliable results including sample points at four different depths.

Run No.	Total tests	Reliable tests	Sample type/depth
3A	15	11	2 3/4 /4271.5
3B	5	4	Segregated/4644.7
3C	9	2	Segregated/4518.2
3D	6	2	2 3/4 /4680
	35	19	

WELL 6506/12 - 6

DATE

RUN NO. 3 A

PRETEST RECORDED DATA

TABLE 3.1

HP - GAUGE

TAB

Max. recorded temp.: 155,5°C

Test No.	Depth	Tem	Log hydr. before t.	Corr. hydr. before t.	Draw down	Build up time	Log Pretest pressure	Cor. Pretest pressure	Log hydr. after t.	Cor. hydr. after t.	Remarks
	m	C	bar	bar	bar	sec	bar	bar	bar	bar	
1	4260	135,6		488,62	240,33	60		484,91		488,12	low permeability
2	4271,5	137,8		488,96	378,14	30		485,89		488,49	low permeability (samplio
3	4335	145,1		497,37	470,06	15		475,75		496,73	good permeability
4	4335	144,1		497,02	466,46	-		476,08		496,55	"
5	4341,5	"		496,31	310,26	50		475,86		495,73	poor permeability
6	4344	"		496,91	131,00	267		477,46		496,56	prob.gas in flowline
7	4482	145,8		512,36	—	—		—		512,17	pretest chamber not fully
8	4482,5	144,4		513,22	17,43	265		342,35		512,5	very low perm plugging
9	4519	145,8		516,28	478,10	65		483,32		515,80	very good perm
10	4549,5	"		519,54	476,77	280		479,85		518,97	v.good-exellent perm
11	4583	149,4		521,29	-	-		-		521,84	probe plugging
12	4645	-		525,95	485,60	200		489,42		-	part.probe pl.
13	4646	152,2		-	479,97	-		-		-	good perm tool unstable
14	4653	153,3		-	281,98	-		486,63		-	fair perm po
15	4680,5	"		528,32	491,79	491,68		494,35		527,80	
16											
17											
18											
19											
20											

WELL 6506/12 - 6

DATE

RUN NO. 3 A

PRETEST RECORDED DATA

TABLE 3.2

STRAIN GAUGE

TAB

Max. recorded temp.: 155,5 °C

Test No.	Depth	Tem	Log hydr. before t.	Corr. hydr. before t.	Draw down	Build up time	Log Pretest pressure	Cor. Pretest pressure	Log hydr. after t.	Cor. hydr. after t.	Remarks
	m	C	bar	bar	bar	sec	bar	bar	bar	bar	
1	4260	135,6		488,4	171,3	87		484,8		487,7	
2	4271,5	137,8		488,6	358,5	30		485,7		487,9	
3	4335	145,1		495,9	468,6	–		473,5		495,3	
4	4335	144,1		494,7	464,5	85		475		494,2	
5	4341,5	"		495,9	310,3	35		475,3		495,3	
6	4344	"		495,8	131	265		476,6		495,4	
7	4482	145,8		511,7	–	–		–		511,6	
8	4452,5	144,4		512,5	22,4	265		342,1		511,9	
9	4519	145,8		515,8	478,6	65		483		515,5	
10	4549,5	"		519	475,5	250		479,6		518,1	
11	4583	149,4		521,2	–	–		–		521,8	
12	4645	152,2		525,5	–	–		–		525,3	
13	4646	152,2		525,7	478,2	30		486		523,9	
14	4653	153,3		524,1	271	128		486,4		–	
15	4680,5	"		528,6	492	–		494,2		528	
16											
17											
18											
19											
20											

WELL

DATE

RUN NO. 3 8

PRETEST RECORDED DATA

Table 3.3

HP - GAUGE

TAB

Max. recorded temp.: 155.5°C

Test No.	Depth	Tem	Log hydr. before t.	Corr. hydr. before t.	Draw down	Build up time	Log Pretest pressure	Cor. Pretest pressure	Log hydr. after t.	Cor. hydr. after t.	Remarks
	m	C	bar	bar	bar	sec	bar	bar	bar	bar	
1	4644.5	153.3		525.59	481.46	20		487.35		525.64	tight form partical probe plugging
2	4644.7	"		524.83	356.18	45		487.50		522.78	low perm.(sampling)
3	4645.0	"		524.67	427.68	75		487.48		525.17	part.probe plugging
4	4645.5	"		525.36	-	-		-		526.25	tight formation
5	4646.0	152.8		532.00	422.75	75		487.19		525.23	part.probe plugging
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

WELL 6506/12-6

DATE

RUN NO. 3 B

PRETEST RECORDED DATA

Table 3.4

STRAIN-GAUGE

TAB

Max. recorded temp.: 155.5°C

Test No.	Depth	Tem	Log hydr. before t.	Corr. hydr. before t.	Draw down	Build up time	Log Pretest pressure	Cor. Pretest pressure	Log hydr. after t.	Cor. hydr. after t.	Remarks
	m	C	bar	bar	bar	sec	bar	bar	bar	bar	
1	4644.5	153.3		524.7	479.5	20		485.9		523.3	
2	4644.7	"		523.5	366.7	45		485.9		522.6	
3	4645	"		523.4	430.2	70		486.1		523.0	
4	4645.5	"		524.5	-	-		-		523.8	
5	4646	152.8		530.6	424.9	65		486.8		524.3	
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

WELL 6506/12-6

DATE

RUN NO. 3 C

PRETEST RECORDED DATA

Table 3.5

HP - GAUGE

TAB

Max. recorded temp.: 155.5°C

Test No.	Depth	Tem	Log hydr. before t.	Corr. hydr. before t.	Draw down	Build up time	Log Pretest pressure	Cor. Pretest pressure	Log hydr. after t.	Cor. hydr. after t.	Remarks
	m	C	bar	bar	bar	sec	bar	bar	bar	bar	
1	4517.5	132.2		527.97	441.56	30		483.7		-	fair perm
2	4517.5	134.5		527.98	-	-		-		-	problems
3	4517.5	132.6		527.98	67.67	-		-		528.06	part.plugg.fair perm
4	4517.6	134.5		527.80	14.50	-		-		527.84	Tight formation,plugg.
5	4518.0	132.3		528.11	-	-		-		528.68	Tight formation,plugg.
6	4518.2	135.6		527.49	467.00	30		483.71		526.11	good perm,(sample)
7	4518.5	132.3		528.51	-	-		-		528.91	Tight formation,plugg.
8	4518.5	134.5		528.03	181.97	-		-		528.04	Tight formation,plugg.
9	4519	132.3		528.41	23.02	-		-		528.73	Tight formation,plugg.
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

WELL 6506/12-6

DATE

RUN NO. 3 C

PRETEST RECORDED DATA

Table 3.6

STRAIN GAUGE

TAB

Max. recorded temp.: 155.5°C

Test No.	Depth	Tem	Log hydr. before t.	Corr. hydr. before t.	Draw down	Build up time	Log Pretest pressure	Cor. Pretest pressure	Log hydr. after t.	Cor. hydr. after t.	Remarks
	m	C	bar	bar	bar	sec	bar	bar	bar	bar	
1	4517.5	132.2		527.3	455.4	25		483.0		526.9	
2	"	134.5		527.0	446.7	-		-		526.8	
3	"	132.6		527.0	68.9	-		-		527.4	
4	4517.6	134.5		527.1	-	-		-		527.1	
5	4518	132.3		527.8	-	-		-		527.6	
6	4518.2	135.6		527.8	465.9	38		483.3		525.5	
7	4518.5	132.3		527.8	-	-		-		527.8	
8	"	134.5		527.4	-	-		-		527.4	
9	4519	132.3		527.8	21.8	-		-		528.2	
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

WELL 6506/12-6

DATE

RUN NO. 3 D

PRETEST RECORDED DATA

Table 3.7

HP - GAUGE

TAB

Max. recorded temp.: 155.5°C

Test No.	Depth	Tem	Log hydr. before t.	Corr. hydr. before t.	Draw down	Build up time	Log Pretest pressure	Cor. Pretest pressure	Log hydr. after t.	Cor. hydr. after t.	Remarks
	m	C	bar	bar	bar	sec	bar	bar	bar	bar	
1	4679.4	148.3		542.11	-	-		-		541.66	tight formation
2	4680	"		541.78	489.98	65		495.82		541.32	exellentperm.(sampling)
3	4680.2	148.7		542.36	-	-		-		542.29	part.plugg.,tight form
4	4680.5	"		544.65	429.93	75		496.11		543.48	exellent perm
5	4680.5	148.3		543.29	-	-		-		542.19	problems
6	4683	148.7		543.24	-	-		-		542.29	partical plugging
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

WELL 6506/12-6

DATE

RUN NO. 3 D

PRETEST RECORDED DATA

Table 3.8

STRAIN GAUGE

TAB

Max. recorded temp.: 155.5°C

Test No.	Depth	Tem	Log hydr. before t.	Corr. hydr. before t.	Draw down	Build up time	Log Pretest pressure	Cor. Pretest pressure	Log hydr. after t.	Cor. hydr. after t.	Remarks
	m	C	bar	bar	bar	sec	bar	bar	bar	bar	
1	4679.4	148.3		540.6	-	-		-			
2	4680	"		540.3	481.3	70		494.4		-	
3	4680.2	148.7		541	-	-		-		-	
4	4680.5	148.7		542.7	492.0	-		494.2		541.2	
5	4680.5	148.3		541.4	494.4	-		-		-	
6	4683	148.7		541.3	-	-		-		541.3	
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

WELL 6506/12-6

DATE

RUN NO. 3 A

PRETEST RECORDED DATA

HP-GAUGE
Strain-Gauge

TAB 4.1

Temp. used for correction: 140° C

Test No.	Depth	Tem	Log hydr. before t.	Corr. hydr. before t.	Draw down	Build up time	Pretest pressure	Cor. Pretest pressure	Log hydr. after t.	Cor. hydr. after t.	Remarks
	m	C	bar	bar	bar	sec	bar	bar	bar	bar	
1	4642.5			535.59			488.54	490,21		-	Tried to sample
2	4642.5			536.48			-	-		-	Computer lock-up
3	4642.0			536.62			-	-		536.41	No flow
4	4645.0			537.66			489.01	490.21		537.24	Good flow
5	4519.7			521.52			-	-		521.45	No flow
6	4420.0			512.28			-	-		512.07	No flow
7	4335.0			501.52			-	-		494.34	Low perm or plugging
8	4332.1			501.66			477.59	477.79		501.17	OK
9	4325.5			500.90			-	-		500.76	No seal
10	4276.3			494.83			489.32	489.24		494.41	OK
11	4272.0			494.97			488.97	488.62		494.34	Slow build up
12	4256.0			492.97			487.59	487.31		492.97	Super chorging
13	4244.9			491.45			-	-		491.38	No seal
14	4237.9			490.48			-	-		490.62	No seal
15	4342.9			503.38			479.99	479.31		503.45	Slow build up
16											
17											
18											
19											
20											

2.2 PRODUCTION TESTING
(DST)

2.2 Production testing (DST)

Four production tests were performed in well 6506/12-6.

Test no	Perf. interval (m RKB)	Prod.fluid
1	4514 - 4525	Oil
	4549 - 4592	
2	4464 - 4493	No prod.
3	4312 - 4352	Gas/cond.
4	4237 - 4245	Water
	4255 - 4277	

Description of test operation and a summary of flow data are enclosed.

FLOW DATA 6506/12-6

Test no.	Perf. int. (mRKB)	Flow period #	Duration (min)	Choke diam. (mm)	Oil rate (Sm^3/d)	Gas rate ($1000\ Sm^3/d$)	GOR (Sm^3/Sm^3)	Water rate (Sm^3/d)	Oil dens (kg/m^3)	Gas sp.g. (air=1)	Pwh (kPa)	Pwf (kPa)	Res. temp. (^0C)	Res. press. (kPa)
1	4514-	1	718	9.5	129	45	350	84			9400	33885		
	4525	2	549	9.5	72	26	360	114	820	0.765	6800	33361	158	48440
	& 4549-	3	1325	9.5	142	58	410	(10)			9600	28446		
	4592													
2	4464-	1	95	(bubble hose)	(1.2)*	-	-	-	-	-	130	35990	156	48100
	4493													
3	4312-	1	667	14.3	285	467	1640	-	817	0.711	20300	41158		
	4352	2	815	11.1	210	350	1670	-	783	0.703	25000	43128	154	47680
		3	521	20.6	322	596	1850	-	788	0.708	13400	40268		
4	4237-	1	465	9.5	-	-	-	140	-	0.775	1160	40306		
	4245	2	161	9.5	-	-	-	170	-	0.782	1680	41200	151	48600
	& 4255-	3	228	12.7	-	-	-	220	-	0.784	1240	39789		
	4277													

* The flowrate decreased from 121 to 1.2 Sm^3/day. No production to surface. No samples taken.

STATOIL WELL NO.6506/12-6

MATERIAL COST AND CONSUMPTION ANALYSIS RIGG: DYVI DELTA

PRODUCT	UNIT SIZE	UNIT PRICE $	36" SECTION	COST $	26" SECTION	COST $	17.5" SECTION	COST $	12.25" SECTION	COST $	8.5" SECTION	COST $	TEST P & A	COST $	TOTAL USED	TOTAL COST
BARITE	M.T.	148.00	45	6660.00	385	56980.00	549	81252.00	1399	207052.00	20	2960.00	293	43364.00	2691	398268.00
BENTONITE	M.T.	380.00	39	14820.00	60	22800.00		.00	21	7980.00	71	26980.00	17	6460.00	208	79040.00
CAUSTIC SODA	25 KG	20.00	5	100.00	326	6520.00	42	840.00	532	10640.00	193	3860.00	3	60.00	1101	22020.00
BICARBONATE	50 KG	24.00		.00	2	48.00		.00	1	24.00	97	2328.00	44	1056.00	144	3456.00
SODA ASH	30 KG	21.00	2	42.00	3	63.00		.00	17	357.00	4	84.00	2	42.00	28	588.00
GYPSUM	40 KG	13.20		.00	150	1980.00	694	9160.80	749	9886.80		.00		.00	1593	21027.60
ANCOMEL	25 KG	52.00		.00	114	5928.00	450	23400.00	138	7176.00		.00		.00	702	36504.00
BENTONITE	50 KG.	20.00		.00		.00	30	600.00	27	540.00		.00	72	1440.00	129	2580.00
XC-POLYMER	50 LBS.	480.00		.00	49	23520.00	51	24480.00	4	1920.00		.00		.00	104	49920.00
DRISPAC REG	50 LBS.	154.00		.00		.00	110	16940.00	36	5544.00	21	3234.00		.00	167	25718.00
DRISPAC SL	50 LBS.	162.00		.00		.00		.00	108	17496.00	20	3240.00		.00	128	20736.00
CMC LV	25 KG.	65.00		.00		.00	100	6500.00	405	26325.00		.00		.00	505	32825.00
CMC HV	25 KG.	67.00		.00		.00	211	14137.00	145	9715.00		.00		.00	356	23852.00
SPERCELL C	25 KG	19.50		.00	14	273.00	13	253.50	796	15522.00	255	4972.50	17	331.50	1095	21352.50
DESCO	25 LBS.	51.00		.00		.00	9	459.00	15	765.00		.00	34	1734.00	58	2958.00
ANCOLIG C	25 KG.	32.00		.00		.00		.00	197	6304.00	628	20096.00	86	2752.00	911	29152.00
DETERGENT	200 LIT	495.00		.00		.00		.00		.00		.00		.00	0	.00
AL.STEARATE	25 KG.	89.00		.00		.00		.00		.00	1	89.00		.00	1	89.00
ANCO RESIN	25 KG	110.00		.00		.00		.00	218	23980.00	405	44550.00	46	5060.00	669	73590.00
ZINKCARBONAT	25 KG	90.00		.00		.00	74	6660.00	18	1620.00		.00		.00	92	8280.00
STAFLO EXLO	25 KG	176.00		.00		.00		.00		.00		.00		.00	0	.00
ANCOCIDE	25 KG.	108.00		.00		.00		.00	10	1080.00	2	216.00		.00	12	1296.00
DEFOAMER	25 LIT.	118.00		.00		.00	21	2478.00	45	5310.00	38	4484.00	2	236.00	106	12508.00
TOTALS				21622.00		118112.00		187160.30		353926.80		112609.50		62299.50		853252.10
HOLE DRILLED (METRE)				113		664		1187		1895		581				4440
COST PR. METRE				191.35		177.88		157.68		186.77		193.82				192.17
TOTAL DAYS				6		16		9		28		31		36		126
COST PR. DAY				3603.67		7382.00		20795.59		12640.24		3632.56		1730.54		6771.84
MUD MIXED (CU.M)				434		2106		1264		1166		917		183		6070
COST PR. CU.M				49.82		56.08		148.07		303.54		122.80		340.43		140.57

OIL WELL NO.6506/12-6

DRILLING MUD PROPERTIES RECORD

AREA HALTENBANKEN

MUD SYSTEM: SPUD MUD/GYP POLYMER/GEL-LIGN. RIG DYVI DELTA

DAY No.	DATE 1986	DEPTH metre	M.W. sg	F.V. s/qt	A.V. cps	P.V. cps	Y.P.	Gel 0	Gel 10	API Filt.	Cake 32nds	HPHT Filt.	pH	Chl.ppm *1000	Calc. g/lit	Pf	%Oil	%sol.	%Sand	MBT ppb	GYP ppb
1	28.3		1.05	100									10.9								
2	29.3	401	1.05	100									10.5								
3	30.3	327	1.05	100									10.8								
4	31.3	391	1.05	100									10.7								
5	1.4	378	1.05	100									10.6								
6	2.4	414	1.05	42	17.5	7	14	3	5	5.5	1		9.5	18.50	2.9	.1	1				6
7	3.4	414	1.12	41	14.5	8	13	3	5	5.6	1		9.8	19.50	2.7	.1	2				6
8	4.4	556	1.12	41	16.5	8	17	5	8	5.3	1		9.7	19.50	1.6	.1	3	Tr.	1.75	4.8	
9	5.4	949	1.12	41	18.5	9	19	7	10	8.6	1		9.7	19.50	2.48	.1	3.5	Tr.	7.5	4.3	
10	6.4	949	1.16	42	20.5	9	23	9	15	11.8	1		9.7	19.50	1.92	.1	5	.25	9		
11	7.4	1065	1.16	54	26.5	10	33	19	22	14	1		9.8	19.00	1.24	.1	5.5	.25	12.5		
	8.4	532	1.14	50	25.5	8	35	25	34	12	1		10.1					Tr.	12.5		
13	9.4	659	1.14	41	25.5	8	35	25	35	NC			10.2					Tr.			
14	10.4	730	1.14	41	28.5	8	41	20	21	NC			10.1					Tr.			
15	11.4	445	1.14	46	34.5	9	51	23	25	NC			9.7					Tr.			
16	12.4	726	1.14	42	31.5	8	47	27	27	NC			10.4					Tr.			
17	13.4	1018	1.14	45	37.5	9	57	27	27	NC			10.5					Tr.			
18	14.4	862	1.14	48	33.5	7	53	26	27	NC			10.2					Tr.			
19	15.4	1078	1.3	40	21.5	11	21	12	20	NC			9.8					Tr.			
20	16.4	1078	1.3	45	29	11	36	21	24	NC			9.8					Tr.			
21	17.4	1078	1.3	65	33	14	38	32	37	NC			10.3					Tr.			
22	18.4	1078	1.12	54	16.5	12	9	2	2	3.8	1		9.3	20.50	5	.05	4	.25	0	3.9	
23	19.4	1095	1.13	46	16.5	9	15	4	5	4.8	1		9.9	21.00	3.52	.05	4	.75	2.5	4.1	
24	20.4	1292	1.13	47	19	11	16	4	5	4.8	1		9.2	22.00	3.32	.03	7	.25	4	5	
25	21.4	1498	1.14	48	20.5	12	17	4	11	4.8	1		8.7	22.00	2.9	.01	6	.25	6	4.6	
26	22.4	1799	1.2	46	21.5	12	19	6	18	5	1		8.8	21.50	2.64	.03	9	Tr.	10.5	5	
27	23.4	2130	1.35	48	25	16	18	6	25	5.4	1		8.7	22.00	2.2	.03	13	.5	19	5	
28	24.4	2265	1.55	55	30.5	21	19	18	62	5.8	1		8.5	21.50	2.44	.05	20	.5	26	2.5	
29	25.4	2265	1.55	56	29	21	16	15	50	5.5	1		8.7	21.50	2.44	.03	21	.75	25	2.5	
30	26.4	2248	1.55	51	32	23	18	15	50	5.3	1		8.4	21.50	2.54	.01	20	.75	16	6.5	
	27.4	2408	1.65	51	30.5	22	17	21	68	6.7	1		9.2	22.00	3.16	.05	23	1.25	14	4	
32	28.4	2652	1.7	63	30	23	14	11	58	4.8	1		9.4	21.50	3.12	.05	25	.75	14	5.6	
33	29.4	2854	1.7	60	31	25	17	12	64	4.8	1		9.3	22.00	2.84	.05	25	.75	16	5.9	
34	30.4	2876	1.7	63	31.5	24	15	12	65	4.8	1		9.7	22.00	2.68	.05	25	.75	16	5.7	
35	1.5	3078	1.7	55	30	22	16	15	67	4.3	1	17	9.6	21.00	2	.08	26	.5	17	5.3	
36	2.5	3103	1.7	51	29	21	16	8	50	4.2	1	16	9.8	20.50	1.96	.1	24	.5	17	4.6	
37	3.5	3189	1.7	52	30	22	16	7	50	4.3	1	16	9.4	21.00	1.96	.08	24	.25	16	4	
38	4.5	3209	1.7	58	32	22	20	12	71	4.1	1	16.8	9.5	21.00	1.88	.08	24	.25	17	3.5	
39	5.5	3271	1.7	54	28	20	16	6	50	4	1	16	9.8	21.50	1.88	.1	23	.25	16	3.3	
40	6.5	3294	1.7	55	26	19	14	6	50	4.2	1	15.5	9.7	21.00	1.92	.1	24	.25	16	3.5	
41	7.5	3386	1.7	50	29	21	16	6	41	4.4	1	13.5	9.2	21.00	2.04	.06	23	.25	15	3.1	
42	8.5	3474	1.7	48	28	21	14	6	41	5.6	1	15	9.4	23.00	1.88	.1	23	.5	16	3.1	
43	9.5	3562	1.7	48	25	18	14	6	41	6.9	1	17	9.6	23.00	1.84	.1	24	.5	16	3	
44	10.5	3643	1.7	49	28.5	20	17	6	50	6.5	1	17	9.7	23.00	1.88	.1	24	.5	16	3.1	
45	11.5	3732	1.7	47	27	20	14	6	47	7	1	17	9.6	23.00	2.2	.1	24	.75	15	3.2	
46	12.5	3829	1.7	58	34.5	26	17	7	61	5.7	1	18	9.4	23.00	2.08	.1	24	.5	16	3.2	
47	13.5	3882	1.7	54	28	22	12	4	34	6	1	18	9.4	22.00	1.96	.1	24	.5	16	3.2	
48	14.5	3882	1.7	73	34.5	26	17	8	60	5.8	1	24	9.4	22.00	1.84	.1	24	.75	18.8	3.1	
49	15.5	3938	1.7	51	29	23	12	5	34	5.6	1	27	9.2	23.00	2.12	.1	24	.75	17.5	3.1	
	16.5	3979	1.7	60	32	24	16	6	42	5.6	1	24	9.4	21.00	1.72	.1	25	.75	18	2.5	
51	17.5	4060	1.7	66	32.5	24	17	8	52	6	1	24	9.6	18.50	1.48	.1	24.5	1	19.5	1.3	

OIL WELL NO.6506/12-6

DRILLING MUD PROPERTIES RECORD

AREA HALTENBANKEN

MUD SYSTEM: SPUD MUD/GYP POLYMER/GEL-LIGN. RIG DYVI DELTA

DAY No.	DATE 1986	DEPTH metre	M.W. sg	F.V. s/qt	A.V. cps	P.V. cps	Y.P.	Gel 0	Gel 10	API Filt.	Cake 32nds	HPHT Filt.	pH	Chl.ppm *1000	Calc. g/lit	Pf	%Oil	%sol.	%Sand	MBT ppb	GYP ppb
52	18.5	4089	1.7	62	33.5	25	17	9	53	6.2	1	24	9.7	17.00	1.32	.1		24.5	1	21	1.2
53	19.5	4130	1.7	61	30	23	14	5	33	6.5	1	21	9.4	15.00	1.04	.1		24.5	1	19	.8
54	20.5	4140	1.7	60	30	22	16	6	38	6.4	1	21	9.5	14.50	.92	.1		24.5	1	21	.6
55	21.5	4160	1.7	60	31.5	24	15	6	39	6.4	1	20	9.9	14.00	.64	.15		24.5	1	23	.4
56	22.5	4160	1.7	65	31.5	25	13	5	31	6	1	20	9.5	14.00	.58	.15		24.5	.5	23	
57	23.5	4160	1.7	65	30	24	12	4	25	5.4	1	19	10	14.00	.24	.25		24.5	.5	22	
58	24.5	4160	1.7	71	30	24	12	5	25	5	1	19	10.4	14.00	.28	.3		24.5	.5	23	
59	25.5	4160	1.7	62	30.5	24	13	4	30	5.6	1	19	9.8	14.00	.3	.15		24.5	.5	22	
60	26.5	4161	1.58	50	24	19	10	3	28	6	1	20	10.7	13.00	.3	.4		21.5	.25	21	
	27.5	4181	1.43	42	18	14	8	2	15	6.6	1	18	10.3	11.50	.22	.35		19	Tr.	20	
62	28.5	4187	1.3	49	16.5	12	9	2	14	5.2	1	18	10	10.00	.22	.25		12	Tr.	20	
63	29.5	4212	1.3	63	18	13	10	3	15	4.8	1	16.5	10.5	10.00	.18	.35		11	Tr.	20	
64	30.5	4239	1.3	60	19	14	10	3	18	5	1	16.5	10.6	10.00	.2	.35		11	Tr.	19	
65	31.5	4266	1.3	67	20	15	10	3	13	4.6	1	15.5	10.3	8.80	.22	.25		11	Tr.	20	
66	1.6	4284	1.2	70	20.5	15	11	3	14	5.4	1	17.5	10.3	8.50	.2	.3		7.5	Tr.	19	
67	2.6	4317	1.2	62	20.5	15	11	3	14	4.5	1	16	10.1	8.50	.2	.3		8	Tr.	18.5	
68	3.6	4339	1.2	57	20	15	10	3	10	4.4	1	15.5	10.4	8.50	.16	.3		8	Tr.	18	
69	4.6	4371	1.2	58	19	14	10	3	8	4.4	1	14	10.4	8.50	.16	.4		8	Tr.	18	
70	5.6	4435	1.2	53	21	16	10	3	8	4.7	1	16	10.3	8.50	.14	.35		8	.25	18	
71	6.6	4480	1.2	60	21	16	10	3	9	4.2	1	15	9.9	8.50	.2	.4		8	.25	19	
72	7.6	4511	1.2	57	21	16	10	3	7	4.4	1	15	10.4	8.50	.24	.45		8.5	.25	19	
73	8.6	4538	1.2	58	20.5	16	9	3	7	4.4	1	15	10.5	8.00	.18	.55		8.5	.25	19	
74	9.6	4552	1.2	60	20.5	16	9	3	7	4.3	1	15	10.3	8.00	.18	.5		8.5	.25	19	
75	10.6	4579	1.2	57	21.5	17	9	3	7	4.4	1	15	10.4	8.50	.12	.6		8.5	.25	20	
76	11.6	4606	1.2	57	22.5	18	9	3	7	5.2	1	16	10.5	6.50	.18	.6		8.5	.25	20	
77	12.6	4673	1.2	61	23	18	10	4	8	4.5	1	15	10.6	6.00	.18	.6		8.5	.25	20.5	
78	13.6	4741	1.2	57	22.5	18	9	3	7	4.7	1	15	10.7	6.50	.16	.7		8.5	.25	20	
79	14.6	4741	1.2	61	22.5	18	9	4	8	4.9	1	15	10.6	6.50	.18	.7		8.5	.25	20	
	15.6	4741	1.2	65	22.5	18	9	3	7	5	1	15	10.5	6.50	.16	.6		8.5	.25	20	
81	16.6	4741	1.2	56	22	18	8	3	7	4.7	1	15	10.6	6.50	.16	.7		8	Tr.	20	
82	17.6	4741	1.2	58	22	18	8	3	7	4.8	1	15	10.5	6.50	.16	.6		8	Tr.	20	
83	18.6	4741	1.2	59	22	18	8	3	7	4.8	1	15	10.4	6.50	.18	.55		8	Tr.	20	
84	19.6	4741	1.2	73	28.5	24	9	3	8	5.2	1	15	9.9	6.50	.16	.7		8	Tr.	20	
85	20.6	4741	1.2	85	29	24	10	4	11	5.4	1	15	9.8	6.50	.16	.7		8	.25	20	
86	21.6	4741	1.2	62	25.5	22	9	4	10	5.7	1	15	10.3	6.50	.18	.8		8	.25	20	
87	22.6	4741	1.2	65	26	22	8	3	16	5.7	1	15.5	12.3	7.00	.3	2.2		8.5	Tr.	20	
88	23.6	4741	1.2	65	27	22	10	3	12	7.9	1	16.5	12.1	6.50	.18	3.8		8.5	.5	19	
89	24.6	4741	1.2	75	28.5	24	9	4	11	8	1	17	11.9	6.50	.12	2.9		8.5	.5	19	
90	25.6	4741	1.2	48	20.5	17	7	3	11	8.5	1	22	11.6	7.00	.12	2.7		8.5	.25	19	
91	26.6	1638	1.2	48	18	15	6	2	10	8.5	1	19	11.9	7.00	.12	2.9		8.5	.25	19	
92	27.6	4592	1.2	47	17.5	15	5	3	9	8.6	1	19	11.9	7.00	.12	2.9		8.5	.25	19	
93	28.6	4592	1.2	55	17	17	7	3	17	8.4	1	19	11.9	7.00	.11	2.9		8.5	.25	20	
94	29.6	4592	1.2	55	17	17	7	3	17	8.4	1	19	11.9	7.00	.11	2.9		8.5	.25	20	
95	30.6	4592	1.2	50	19	16	6	3	15	8.5	1	19	11.9	7.00	.13	2.9		8.5	.25	20	
96	1.7	4592	1.2	57	18	18	8	3	18	8.4	1	19	11.9	6.50	.12	2.9		9	Tr.	20	
97	2.7	4592	1.2	50	16	16	7	3	25	8.6	1	19	11.5	7.00	.14	1.5		9	Tr.	21	
98	3.7	2275	1.2	55	19.5	17	5	2	10	8.6	1		11.4	7.00	.14	1.3		9	Tr.	24	
99	4.7	4510	1.2	50	18	16	4	2	9	8.5	1		11.3	7.00	.12	1.2		8.5	Tr.	23	
100	5.7	4508	1.2	55	17	17	4	2	9	8.6	1		11.4	8.00	.1	1.3		8.5	Tr.	23	
101	6.7	4508	1.2	55	17	15	4	2	9	8.6	1		11.4	8.00	.12	1.3		9	Tr.	23	
102	7.7	4508	1.2	50	16	14	4	2	10	9.7	1		11.4	9.00	.12	1.3		9	Tr.	22	
103	8.7	4502	1.2	55	18	16	4	2	14	9.8	1		11.5	8.50	.14	1.6		9	Tr.	22	

STATOIL WELL NO.6506/12-6

.LING MUD PROPERTIES RECORD

AREA HALTENBANKEN

MUD SYSTEM: SPUD MUD/GYP POLYMER/GEL-LIGN. RIG DYVI DELTA

DAY No.	DATE 1986	DEPTH metre	M.W. sg	F.V. s/qt	A.V. cps	P.V. cps	Y.P.	Gel 0	Gel 10	API Filt.	Cake 32nds	HPHT Filt.	pH	Chl.ppm *1000	Calc. g/lit	Pf	%Oil	%sol.	%Sand	MBT ppb	GYP ppb
104	9.7	4501	1.2	49	16.5	14	5	2	15	10.1	1		11.4	8.50	.1	1.4		9	Tr.	22	
105	10.7	4501	1.2	55	17	14	6	2	15	10.1	1		11.5	8.50	.14	1.2		8	Tr.	22	
106	11.7	4493	1.2	70	15.5	13	5	2	16	10.2	1		11.4	8.50	.14	1.3		8	Tr.	22	
107	12.7		1.2	58	16	13	6	2	15	10.6	1		10.6	8.50	.12	1.2		8	Tr.	22	
108	13.7		1.2	50	14.5	12	5	2	15	10.8	1		11.3	8.50	.1	1.15		8	Tr.	22	
109	14.7	4399	1.2	54	14.5	12	5	2	16	10.8	1		11.3	8.50	.12	1.1		8	Tr.	22	
110	15.7	4399	1.2	45	15	12	6	2	15	10.2	1		11.2	8.50	.14	1		8	Tr.	22	
111	16.7	4399	1.2	47	15	12	6	2	15	10.2	1		11.2	8.50	.14	.9		8	Tr.	22	
112	17.7	4399	1.2	45	14.5	12	5	2	14	10	1		11.1	8.30	.12	.9		8	Tr.	21	
113	18.7	4399	1.2	45	14	11	6	2	12	9.8	1		11.1	8.30	.14	.9		8	Tr.	21	
114	19.7	4399	1.2	53	15	12	6	2	15	10.6	1		11.2	8.50	.14	1		8	Tr.	22	
115	20.7	4399	1.2	46	15	12	6	2	16	10.8	1		11	8.50	.12	.8		8	Tr.	22	
	21.7	4307	1.2	52	15	12	6	2	16	10.8	1		11.3	8.50	.14	.85		8	Tr.	22	
117	22.7	4287	1.2	51	14.5	12	5	2	14	11	2		11.3	8.50	.14	.9		8	Tr.	22	
118	23.7	4287	1.2	50	14.5	12	5	2	15	11.2	2		11.3	8.50	.14	.85		8	Tr.	22	
119	24.7	4287	1.2	53	14	12	4	3	17	11.4	2		11.4	9.00	.08	.7		8	Tr.	22	
120	25.7	4287	1.2	51	16	14	4	2	19	9.3	2		11.4	9.50	.1	.7		8	Tr.	22	
121	26.7	4202	1.2	62	18	15	6	3	27	11.5	2		11.4	9.00	.1	.8		8	Tr.	25	
122	27.7	4000	1.22	80	23	19	8	15	30	13.5	2		12	9.50	.36	1.2		9	Tr.	26	
123	28.7	3920	1.7	80	32.5	29	7	22	40	13.5	2		12	9.50	.2	1.5		23	1.5	26	
124	29.7	1050	1.7	83	33	28	10	18	83	12	2		12	10.00	.3	2		23	1	26	
125	30.7	903	1.55	68	24.5	21	7	15	64	12	2		12	10.00	.34	2		17	1	25	
126	31.7	540	1.55	63																	

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GEOLOGICAL LABORATORIES

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Grading

Title Source Rock Evaluation, Hydrocarbon Characterisation and ~~Fluid Sample Analyses~~, NOC Well 6506/12-6, Statoil.

Requested by Ivar Morvik, LET-B	**Project**
Date 10.02.87	**Number of pages** 65 / **No. of encs.** 11 Appendices 6 Figures/14 Tables

Key words Source rock evaluation, hydrocarbon analyses, maturity evaluation, vitrinite reflectance, kerogen composition, quantified pyrolysis gas chromatography, gas chromatography, biomarker analysis, isotopic composition.

Prepared by

GEOLAB NOR A/S

Textoperator

Approved by Statoil Geological Lab. Geochemistry Section

10.02.87 Ingve Meyer

T. Meyer, Section Manager

10.2.87 S. Olaussen

S. Olaussen, Dept. Manager

GEOLAB NOR
GEOCHEMICAL LABORATORIES OF NORWAY A.S

Source rock evaluation, hydrocarbon characterisation and fluid sample analyses, NOCS well 6506/12-6, Statoil.

Client : Statoil (Den Norske Stats Oljeselskap)

Authors : K. A. Bakken ,M. Bjorøy, J. McDermott and N. Mills.

Responsible technician : M. Sandstad

Geolab Nor

Hornebergveien 5

P.O.Box 1581

7001 Trondheim

NORWAY

Source rock evaluation, hydrocarbon characterisation and fluid sample analyses, NOCS well 6506/12-6, Statoil.

1. Introduction.

Cuttings, core samples and oils from the interval 4020 m RKB (Nesna Fm.) to TD, 4737 m RKB (in Hitra Fm.) from NOCS well 6506/12-6 were subjected to geochemical analyses on behalf of Statoil.

The objectives of the programme were to evaluate the source rocks, characterise the hydrocarbons in possible reservoir rocks and analyse fluid samples.

This study was authorised by Trygve Meyer and Sigbjørn Nygård of Statoil and 10 copies of the final approved report were requested. All data and interpretation within this work program on NOCS well 6506/12-6 are proprietary to Statoil and are treated in strictest confidence by Geolab Nor. Discussion of results and provision of information will only be made to persons authorised in writing by Statoil.

II. Sample quality.

The quality of the cuttings samples was variable. The samples analysed from the turbodrilled section (4020 m - 4130 m) appeared to be only moderately affected by the process, and the results are believed to be reliable. The section from about 4160 m to 4230 m was very contaminated, and no analyses were performed. The rest of the cuttings were of good quality. The core samples were of very good quality.

Apart from the core samples which were conatined in plastic bags, all samples were in cans.

III. Results.

All samples in this report are identified by their lower depth point. The cutting samples generally represent an interval of 9 m.

Lithology and organic carbon content. (Table 1, Figure 2)

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Table 1 : Lithology description for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Type		Grp	Frm	Age	Trb	Sample
Int Cvd	TOC%	%	Lithology description				
4029.00						trb	025
	7.92	70	Sh/Clst: brn blk, calc, carb				025-1
		15	Sh/Clst: lt gy to m gy				025-3
		10	Cont : brn blk, fib				025-2
		5	Sh/Clst: gy red				025-4
		tr	S/Sst : lt gy, calc				025-5
		tr	Ca : w				025-6
4041.00						trb	026
	7.90	80	Sh/Clst: brn blk, calc, carb				026-1
		15	Sh/Clst: lt gy to m gy				026-2
		5	Sh/Clst: gy red				026-3
		tr	S/Sst : lt gy, calc				026-4
		tr	Ca : w				026-5
4050.00						trb	027
	8.19	80	Sh/Clst: brn blk, calc, carb				027-1
		15	Sh/Clst: lt gy to m gy				027-2
		5	Sh/Clst: gy red				027-3
		tr	S/Sst : lt gy, calc				027-4
		tr	Ca : w				027-5
4059.00						trb	028
	7.74	50	Sh/Clst: brn blk, calc, carb				028-1
		35	Sh/Clst: lt gy to m gy				028-4
		5	Cont : brn blk, Coal-ad, fib				028-2
		5	Sltst : lt gy to lt gn gy, pyr				028-3
		5	Sh/Clst: gy red				028-5
		tr	S/Sst : lt gy, calc				028-6
		tr	Ca : w				028-7

GEOLAB NOR
GEOCHEMICAL LABORATORIES OF NORWAY A.S

Table 1 : Lithology description for well NOCS 6506/12-6

Depth unit of measure: m

Depth		Type		Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description				
4071.00							trb	029
		8.63	60	Sh/Clst: brn blk, calc, carb				029-1
			40	Sh/Clst: lt gy to m gy				029-4
			tr	Cont : brn blk, Coal-ad, fib				029-2
			tr	Sltst : lt gy to lt gn gy, pyr				029-3
			tr	Sh/Clst: gy red				029-5
			tr	Ca : w				029-6
4080.00							trb	030
		1.20	60	Sh/Clst: m gy to drk gy				030-4
			30	Sh/Clst: brn blk, calc, carb				030-1
			5	Sltst : lt gy to lt gn gy, pyr				030-3
			5	Sh/Clst: gy red				030-5
			tr	Cont : brn blk, Coal-ad, fib				030-2
			tr	Ca : w				030-6
			tr	S/Sst : lt gy, calc				030-7
4089.00							trb	031
		1.08	70	Sh/Clst: m gy to drk gy				031-4
			20	Sh/Clst: brn blk, calc, carb				031-1
			5	Sltst : lt gy to lt gn gy, pyr				031-3
			5	Sh/Clst: gy red				031-5
			tr	Cont : brn blk, Coal-ad, fib				031-2
			tr	Ca : w to dsk y brn				031-6
4101.00							trb	032
		1.09	80	Sh/Clst: m gy to drk gy				032-4
			10	Sh/Clst: brn blk, calc, carb				032-1
			5	Sltst : lt gy to lt gn gy, pyr				032-3
			5	Sh/Clst: gy red				032-5
			tr	Cont : brn blk, Coal-ad, fib				032-2
			tr	Ca : w to dsk y brn				032-6

GEOLAB NOR
GEOCHEMICAL LABORATORIES OF NORWAY A.S

Table 1 : Lithology description for well NOCS 6506/12-6

Depth unit of measure: m

Depth		Type		Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description				
4110.00							trb	033
		0.97	90	Sh/Clst: m gy to drk gy				033-4
			5	Sltst : lt gy to lt gn gy, pyr				033-3
			5	Sh/Clst: gy red				033-5
			tr	Sh/Clst: brn blk, calc, carb				033-1
			tr	Cont : brn blk, Coal-ad, fib				033-2
			tr	Ca : w to dsk y brn				033-6
			tr	Other : pyr				033-7
4119.00							trb	034
		1.21	90	Sh/Clst: m gy to drk gy				034-1
			5	Sltst : lt gy to lt gn gy, pyr				034-2
			5	Sh/Clst: gy red				034-3
			tr	Ca : w to dsk y brn				034-4
			tr	Cont : brn blk, Coal-ad, fib				034-5
			tr	Other : pyr				034-6
4131.00							trb	035
		1.04	100	Sh/Clst: m gy to drk gy				035-1
			tr	Sltst : lt gy to lt gn gy, pyr				035-2
			tr	Sh/Clst: gy red				035-3
			tr	Ca : w to dsk y brn				035-4
			tr	Cont : brn blk, Coal-ad, fib				035-5
			tr	Other : pyr				035-6
4140.00								036
		1.08	80	Sh/Clst: gy blk to m lt gy				036-1
			10	Sh/Clst: gy red				036-2
			5	Ca : w to dsk y brn				036-4
			5	S/Sst : lt gy, calc				036-5
			tr	Sh/Clst: dsk y brn, wx				036-3
			tr	Cont : Coal-ad, fib				036-6
			tr	Other : pyr				036-7

GEOLAB NOR
GEOLOGICAL LABORATORIES OF NORWAY A.S

Table 1 : Lithology description for well NOCS 6506/12-6

Depth unit of measure: m

Depth		Type		Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description				
4149.00								037
		1.21	80	Sh/Clst:	gy blk to m lt gy			037-1
			10	Sh/Clst:	gy red			037-2
			5	Ca	: w to dsk y brn			037-4
			5	S/Sst	: lt gy, calc			037-5
			tr	Sh/Clst:	dsk y brn, wx			037-3
			tr	Cont	: Coal-ad, fib			037-6
			tr	Other	: pyr			037-7
4158.00								038
		1.20	80	Sh/Clst:	gy blk to m lt gy			038-1
			10	Sh/Clst:	gy red			038-2
			5	Ca	: w to dsk y brn			038-4
			5	S/Sst	: lt gy, calc			038-5
			tr	Sh/Clst:	dsk y brn, wx			038-3
			tr	Cont	: Coal-ad, fib			038-6
			tr	Other	: pyr			038-7
4170.00								039
			40	Cont	: Coal-ad, cem, prp, fib			039-1
			40	Sh/Clst:	gy blk to m lt gy, mic, st			039-2
			10	Sh/Clst:	gy red			039-3
			10	Ca	: w to dsk y brn			039-4
4179.00								040
			60	Cont	: Coal-ad, cem, prp, fib			040-1
			35	Sh/Clst:	gy blk to m lt gy, mic, st			040-2
			5	Ca	: w to dsk y brn			040-4
			tr	Sh/Clst:	gy red			040-3
4184.30	ccp							001
		3.00	100	Sh/Clst:	brn blk, mic			001-1

Table 1 : Lithology description for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Type		Grp	Frm	Age	Trb	Sample
Int Cvd	TOC%	%	Lithology description				
4191.00							041
		85	Cont		: Coal-ad, cem, prp, fib, tar-ad		041-1
		15	Sh/Clst		: gy blk to m lt gy, mic, st		041-2
4199.35	ccp						002
	2.11	100	Sh/Clst		: brn blk, mic		002-1
4200.00							042
		60	Cont		: Coal-ad, cem, prp, fib, tar-ad		042-1
		40	Sh/Clst		: gy blk to m lt gy, mic, st		042-2
4209.00							043
		70	Cont		: Coal-ad, cem, prp, fib, tar-ad		043-1
		30	Sh/Clst		: gy blk to m lt gy, mic, st		043-2
4221.00							044
		70	Cont		: Coal-ad, cem, prp, fib, tar-ad		044-1
		30	Sh/Clst		: gy blk to m lt gy, mic, st		044-2
4230.00							045
		100	Cont		: Coal-ad, cem, prp, fib, tar-ad		045-1
		tr	Sh/Clst		: gy blk to m lt gy, mic, st		045-2
4235.60	ccp						003
		100	S/Sst		: lt gy, pyr, mic		003-1

GEOLAB NOR
GEOCHEMICAL LABORATORIES OF NORWAY A/S

Table 1 : Lithology description for well NOCS 6506/12-6

Depth unit of measure: m

Depth		Type		Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description				
4240.70		ccp						004
			100	S/Sst		: lt gy, carb, mic		004-1
4246.62		ccp						005
			100	S/Sst		: lt gy, pyr, mic		005-1
4250.60		ccp						006
			100	S/Sst		: lt gy, carb, mic		006-1
4259.64		ccp						007
			100	S/Sst		: lt gy, crs		007-1
4317.78		ccp						008
			100	S/Sst		: lt gy, mic		008-1
		0.44		bulk				008-0
			tr	Coal		: blk, pyr		008-2
4322.11		ccp						009
			100	S/Sst		: lt gy, carb, pyr, mic		009-1
4327.18		ccp						010
			100	S/Sst		: lt gy to m gy, pyr		010-1
4332.63		ccp						011
			100	S/Sst		: lt gy to m gy, pyr		011-1

GEOLAB NOR
GEOCHEMICAL LABORATORIES OF NORWAY A.S

Table 1 : Lithology description for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Type		Grp	Frm	Age	Trb	Sample
Int Cvd	TOC%	%	Lithology description				
4339.63	ccp						012
		100	S/Sst	: lt gy to m gy, pyr			012-1
4343.18	ccp			Halt Tom3 M.Ju			013
		100	S/Sst	: lt gy to m gy, carb, pyr			013-1
4352.00	oil						054
4355.12	ccp						016
		100	S/Sst	: lt gy to m gy, carb, pyr, mic, f			016-1
4367.00	ccp						014
		100	S/Sst	: lt gy, calc, carb, pyr			014-1
4386.00							046
		60	S/Sst	: w to y gy			046-1
	1.74	40	Sh/Clst	: gy blk to m gy, mic			046-2
		tr	Cont	: Coal-ad, cem			046-3
		tr	Other	: pyr			046-4
4395.00							047
		50	S/Sst	: w to lt gy			047-1
	1.77	40	Sh/Clst	: gy blk to m gy, mic			047-2
		10	Cont	: Coal-ad, cem, fib			047-3

Table 1 : Lithology description for well NOCS 6506/12-6

Depth unit of measure: m

Depth Int	Cvd	Type TOC%	%	Grp Frm Age Lithology description	Trb	Sample
4404.00						048
		1.76	50	Sh/Clst: gy blk to m gy, mic		048-2
			40	S/Sst : w to lt gy		048-1
			10	Cont : Coal-ad, cem, fib		048-3
4413.00						049
		1.64	50	Sh/Clst: gy blk to m gy, mic		049-2
			35	S/Sst : w to lt gy		049-1
			15	Cont : Coal-ad, cem, fib		049-3
4422.00						050
		1.85	55	Sh/Clst: gy blk to m gy, mic		050-2
			35	S/Sst : w to lt gy		050-1
			10	Cont : Coal-ad, cem, fib		050-3
4431.00						051
		1.66	55	Sh/Clst: gy blk to m gy, mic		051-2
			35	S/Sst : w to lt gy		051-1
			10	Cont : Coal-ad, cem, fib		051-3
4454.26	ccp					015
			100	S/Sst : lt gy to m gy, carb, pyr		015-1
4460.14	ccp					017
			100	S/Sst : lt gy to brn blk, carb, pyr, cly, glauc, f		017-1

Table 1 : Lithology description for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Type		Grp	Frm	Age	Trb	Sample
Int Cvd	TOC%	%	Lithology description				
4464.80	ccp						018
		100	S/Sst	: brn to lt gy, cly			018-1
4480.12	ccp						019
		100	S/Sst	: lt gy, calc, glauc			019-1
4486.88	ccp						020
		100	S/Sst	: lt gy, mic, glauc			020-1
4515.84	ccp						021
		100	S/Sst	: lt gy			021-1
4518.62	ccp						022
		100	S/Sst	: m lt gy			022-1
4553.55	ccp						023
		100	S/Sst	: m lt gy, carb			023-1
4592.00	oil						055
4606.43	ccp						024
		100	S/Sst	: m lt gy, carb, crs			024-1

GEOLAB NOR
GEOCHEMICAL LABORATORIES OF NORWAY A.S

Table 1 : Lithology description for well NOCS 6506/12-6

Depth unit of measure: m

Depth		Type		Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description				
4728.00								052
			70	S/Sst	:	m lt gy, calc		052-1
		2.74	20	Sh/Clst	:	gy blk to brn blk, mic		052-3
			5	Ca	:	dsk y brn, dol		052-2
			5	Coal				052-6
			tr	Cont	:	Coal-ad		052-4
			tr	Other	:	pyr		052-5
4737.00								053
			70	S/Sst	:	m lt gy, calc		053-1
		2.48	20	Sh/Clst	:	gy blk to brn blk, mic		053-3
			5	Ca	:	dsk y brn, dol		053-2
		73.05	5	Coal				053-6
			tr	Cont	:	Coal-ad		053-4
			tr	Other	:	pyr		053-5

Table 2 : Rock-Eval table for well NCCS 6306/12-6

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
4029.00	cut	Sh/Clst: brn blk	5.92	16.86	1.16	14.53	7.92	213	15	22.8	0.26	440	025-1
4041.00	cut	Sh/Clst: brn blk	5.86	15.59	0.79	19.73	7.90	197	10	21.5	0.27	441	026-1
4050.00	cut	Sh/Clst: brn blk	4.87	13.90	0.99	14.04	8.19	170	12	18.8	0.26	441	027-1
4059.00	cut	Sh/Clst: brn blk	4.10	11.34	1.17	9.69	7.74	147	15	15.4	0.27	440	028-1
4071.00	cut	Sh/Clst: brn blk	4.63	13.60	1.26	10.79	8.63	158	15	18.2	0.25	442	029-1
4080.00	cut	Sh/Clst: m gy to drk gy	0.08	0.30	0.48	0.63	1.20	25	40	0.4	0.21	442	030-4
4089.00	cut	Sh/Clst: m gy to drk gy	0.09	0.30	0.49	0.61	1.08	28	45	0.4	0.23	442	031-4
4101.00	cut	Sh/Clst: m gy to drk gy	0.07	0.36	0.28	1.29	1.09	33	26	0.4	0.16	440	032-4
4110.00	cut	Sh/Clst: m gy to drk gy	0.09	0.24	0.28	0.86	0.97	25	29	0.3	0.27	440	033-4
4119.00	cut	Sh/Clst: m gy to drk gy	0.11	0.38	0.24	1.58	1.21	31	20	0.5	0.22	445	034-1
4131.00	cut	Sh/Clst: m gy to drk gy	0.11	0.37	0.18	2.06	1.04	36	17	0.5	0.23	438	035-1
4140.00	cut	Sh/Clst: gy blk to m lt gy	0.12	0.33	0.18	1.83	1.08	31	17	0.5	0.27	441	036-1
4149.00	cut	Sh/Clst: gy blk to m lt gy	0.15	0.33	0.22	1.50	1.21	27	18	0.5	0.31	445	037-1
4158.00	cut	Sh/Clst: gy blk to m lt gy	0.11	0.40	0.13	3.08	1.20	33	11	0.5	0.22	447	038-1
4184.30	ccp	Sh/Clst: brn blk	0.40	2.71	0.18	15.06	3.00	90	6	3.1	0.13	452	001-1

GEOLAB NOR
GEOCHEMICAL LABORATORIES OF NORWAY A.S

Table 2 : Rock-Eval table for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
4199.35	ccp	Sh/Clst: brn blk	0.44	2.52	0.04	63.00	2.11	119	2	3.0	0.15	442	002-1
4317.78	ccp	bulk	0.48	0.58	0.09	6.44	0.44	132	20	1.1	0.45	451	008-0
4386.00	cut	Sh/Clst: gy blk to m gy	0.36	1.87	0.35	5.34	1.74	107	20	2.2	0.16	451	046-2
4395.00	cut	Sh/Clst: gy blk to m gy	0.42	1.91	0.24	7.96	1.77	108	14	2.3	0.18	449	047-2
4404.00	cut	Sh/Clst: gy blk to m gy	0.42	2.20	0.31	7.10	1.76	125	18	2.6	0.16	454	048-2
4413.00	cut	Sh/Clst: gy blk to m gy	0.40	1.97	0.36	5.47	1.64	120	22	2.4	0.17	452	049-2
4422.00	cut	Sh/Clst: gy blk to m gy	0.55	2.08	0.78	2.67	1.85	112	42	2.6	0.21	451	050-2
4431.00	cut	Sh/Clst: gy blk to m gy	0.39	1.70	0.25	6.80	1.66	102	15	2.1	0.19	449	051-2
4728.00	cut	Sh/Clst: gy blk to brn blk	0.46	2.64	0.13	20.31	2.74	96	5	3.1	0.15	454	052-3
4737.00	cut	Sh/Clst: gy blk to brn blk	0.45	2.41	0.17	14.18	2.48	97	7	2.9	0.16	452	053-3
4737.00	cut	Coal	8.43	141.71	2.96	47.88	73.05	194	4	150.1	0.06	460	053-6

Table 3 : Thermal Maturity Data for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation	Spore Fluorescence Colour	SCI	Tmax (°C)	Sample
4029.00	cut	bulk	0.54	4	0.07	6	-	-	025-0
4029.00	cut	Sh/Clst: brn blk	-	-	-	-	6.5	440	025-1
4050.00	cut	bulk	NDP	-	-	NDP	-	-	027-0
4050.00	cut	Sh/Clst: brn blk	-	-	-	-	NDP	441	027-1
4071.00	cut	bulk	0.68	11	0.05	6	-	-	029-0
4071.00	cut	Sh/Clst: brn blk	-	-	-	-	NDP	442	029-1
4089.00	cut	Sh/Clst: m gy to drk gy	-	-	-	-	NDP	442	031-4
4101.00	cut	bulk	0.62	8	0.06	6	-	-	032-0
4110.00	cut	Sh/Clst: m gy to drk gy	-	-	-	-	6.5?	440	033-4
4119.00	cut	Sh/Clst: m gy to drk gy	-	-	-	-	7?	445	034-1
4131.00	cut	Sh/Clst: m gy to drk gy	-	-	-	-	6.5?	438	035-1
4140.00	cut	bulk	0.72	8	0.05	6+7	-	-	036-0
4149.00	cut	Sh/Clst: gy blk to m lt gy	-	-	-	-	NDP	445	037-1
4158.00	cut	bulk	0.72	23	0.05	7	-	-	038-0

Table 3 : Thermal Maturity Data for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation	Spore Fluorescence Colour	SCI	Tmax (°C)	Sample
4184.30	ccp	Sh/Clst: brn blk	-	-	-	-	7.5	452	001-1
4199.35	ccp	bulk	0.83	22	0.05	7	-	-	002-0
4199.35	ccp	Sh/Clst: brn blk	-	-	-	-	7.5?	442	002-1
4240.70	ccp	bulk	NDP	-	-	7	-	-	004-0
4250.60	ccp	bulk	0.82	7	0.08	7+8	-	-	006-0
4317.78	ccp	bulk	0.90	18	0.04	8	-	451	008-0
4343.18	ccp	bulk	NDP	-	-	0	-	-	013-0
4386.00	cut	bulk	0.96	16	0.07	0	-	-	046-0
4386.00	cut	Sh/Clst: gy blk to m gy	-	-	-	-	7.5 - 8	451	046-2
4404.00	cut	Sh/Clst: gy blk to m gy	-	-	-	-	8	454	048-2
4413.00	cut	bulk	0.87	7	0.06	0	-	-	049-0
4422.00	cut	Sh/Clst: gy blk to m gy	-	-	-	-	7.5 - 8?	451	050-2
4431.00	cut	bulk	0.96	17	0.06	8	-	-	051-0
4460.14	ccp	bulk	0.99	10	0.03	8	-	-	017-0

Table 3 : Thermal Maturity Data for well NCCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation	Spore Fluorescence Colour	SCI	Tmax (°C)	Sample
4486.88	ccp	bulk	NDP	-	-	0	-	-	020-0
4553.55	ccp	bulk	NDP	-	-	0	-	-	023-0
4606.43	ccp	bulk	0.91	6	0.04	0	-	-	024-0
4728.00	cut	bulk	1.02	26	0.06	0	-	-	052-0
4728.00	cut	Sh/Clst: gy blk to brn blk	-	-	-	-	NDP	454	052-3
4737.00	cut	bulk	1.05	21	0.06	0	-	-	053-0
4737.00	cut	Coal	-	-	-	-	8	460	053-6

Table 4 : Visual Kerogen Composition Data for well NCCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	LIPT %	Amor	LipDet	Sp/Pol	Cuticl	Resine	Algae	Dinoafl	Acrit	BitL	INERT %	Fusin	Semfus	Inertd	Micrin	Sclero	BitI	VITR %	Telin	Collin	Vitdet	Amorv	BitV	Smple
4029.00	cut	Sh/Clst: brn blk	20	**	*								10		*	**				70			*	**		025-1
4050.00	cut	Sh/Clst: brn blk	TR?	*									10			*				90			*	**		027-1
4071.00	cut	Sh/Clst: brn blk	TR	*									10			*				90			**	*		029-1
4089.00	cut	Sh/Clst: m gy to drk gy	TR	*									60	*	*	**				40			*	**		031-4
4110.00	cut	Sh/Clst: m gy to drk gy	TR	**	*								60		*	**				40			**	*		033-4
4119.00	cut	Sh/Clst: m gy to drk gy	TR	*									60		*	**				40			**	*		034-1
4131.00	cut	Sh/Clst: m gy to drk gy	TR	**	*								30		?	**				70			**	?		035-1
4149.00	cut	Sh/Clst: gy blk to m lt gy	TR?	*									40		*	**				60			**	*		037-1
4184.30	ccp	Sh/Clst: brn blk	20	**	*								30	*	**	*				50	?	?	**	*		001-1
4199.35	ccp	Sh/Clst: brn blk	20	**	?								20	*	**	*				60	?	?	**	*		002-1
4386.00	cut	Sh/Clst: gy blk to m gy	10	**	*								20		*	**				70			**	*		046-2
4404.00	cut	Sh/Clst: gy blk to m gy	20	**	*					?			20	*	**	?				60	?	?	**	*		048-2
4422.00	cut	Sh/Clst: gy blk to m gy	20	**	?								10		*	**				70			**	*		050-2

Table 4 : Visual Kerogen Composition Data for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	LIPT %	Amor L	LipDet	Sp/Pol	Cutic l	Resin	Algae	Dinof l	Acrit	Bit L	INERT %	Fusin	Semfus	Sm Det	Micrin	Sclero	Bit I	VITR %	Telin	Colin	Vit Det	Amor V	Bit V	Smple
4728.00	cut	Sh/Clst: gy blk to brn blk	5		*								15		*	**				80			**	*		052-3
4737.00	cut	Coal	20		**	*							10		*	**				70			**	*		053-6

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Table 5 : Pyrolysis GC data (S2 peak) as percentage of total area for well NOCS 6506/12-6

Depth unit of measure : m

Depth	Typ	Lithology	C1	C2-C5	C6-C14	C15+	S2 from Rock-Eval	Sample
4029.00	cut	Sh/Clst: brn blk	4.71	20.25	39.18	35.85	16.86	025-1
4041.00	cut	Sh/Clst: brn blk	4.15	17.38	37.55	40.92	15.59	026-1
4050.00	cut	Sh/Clst: brn blk	5.18	20.63	38.71	35.47	13.90	027-1
4184.30	ccp	Sh/Clst: brn blk	14.07	31.01	36.38	18.52	2.71	001-1
4199.35	ccp	Sh/Clst: brn blk	15.64	33.42	40.88	10.03	2.52	002-1
4395.00	cut	Sh/Clst: gy blk to m gy	10.49	31.10	43.78	14.59	1.91	047-2
4413.00	cut	Sh/Clst: gy blk to m gy	10.96	30.00	44.70	14.33	1.97	049-2
4431.00	cut	Sh/Clst: gy blk to m gy	10.22	31.55	43.06	15.08	1.70	051-2
4728.00	cut	Sh/Clst: gy blk to brn blk	11.14	30.20	40.75	17.90	2.64	052-3
4737.00	cut	Coal	10.58	21.37	28.26	39.78	141.71	053-4

Table 6 a: Weight of EOM and Chromatographic Fraction for well NCCS 6506/12-6

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
4029.00	cut	Sh/Clst: brn blk	7.0	118.6	3.8	2.4	14.0	98.4	6.2	112.4	6.35	025-1
4041.00	cut	Sh/Clst: brn blk	9.4	143.5	27.8	20.2	20.9	74.6	48.0	95.5	6.36	026-1
4050.00	cut	Sh/Clst: brn blk	6.8	91.6	16.7	14.5	12.0	48.4	31.2	60.4	6.69	027-1
4184.30	ccp	Sh/Clst: brn blk	7.6	13.5	1.8	2.2	5.7	3.8	4.0	9.5	2.59	001-1
4199.35	ccp	Sh/Clst: brn blk	10.0	8.9	0.5	1.1	3.2	4.1	1.6	7.3	2.73	002-1
4235.60	ccp	S/Sst : lt gy	10.0	12.2	3.7	1.2	0.4	6.9	4.9	7.3	0.28	003-1
4240.70	ccp	S/Sst : lt gy	10.1	10.6	2.8	1.2	0.6	6.0	4.0	6.6	0.25	004-1
4246.62	ccp	S/Sst : lt gy	10.2	8.1	2.5	1.4	0.8	3.3	4.0	4.1	0.28	005-1
4250.60	ccp	S/Sst : lt gy	10.1	10.1	4.8	1.3	0.1	3.9	6.1	4.0	0.50	006-1
4259.64	ccp	S/Sst : lt gy	10.3	12.3	4.2	1.2	0.2	6.7	5.4	6.9	0.26	007-1
4317.78	ccp	bulk	10.0	11.7	2.8	1.2	1.1	6.6	4.0	7.7	0.60	008-0
4322.11	ccp	S/Sst : lt gy	10.1	9.2	4.0	1.2	0.3	3.7	5.2	4.0	0.27	009-1
4327.18	ccp	S/Sst : lt gy to m gy	10.4	8.8	3.4	0.7	0.8	3.9	4.1	4.7	0.22	010-1
4332.63	ccp	S/Sst : lt gy to m gy	10.4	8.9	3.5	1.0	0.4	4.1	4.4	4.5	0.30	011-1

Table 6 a: Weight of ECM and Chromatographic Fraction for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	Rock Extracted (g)	ECM (mg)	Sat (mg)	Aro (mg)	Asph (mg)	NSO (mg)	HC (mg)	Non-HC (mg)	TOC(e) (%)	Sample
4339.63	ccp	S/Sst : lt gy to m gy	10.6	13.9	4.2	1.7	0.6	7.4	5.9	8.0	0.36	012-1
4343.18	ccp	S/Sst : lt gy to m gy	10.2	7.4	2.9	0.8	0.1	3.6	3.7	3.7	0.28	013-1
4352.00	oil	bulk	1.0	76.7	23.7	7.6	0.1	45.3	31.3	45.4	1.00	054-0
4355.12	ccp	S/Sst : lt gy to m gy	10.1	10.6	2.8	1.2	0.2	6.4	4.0	6.6	0.29	016-1
4367.00	ccp	S/Sst : lt gy	10.2	15.5	5.4	1.6	0.8	7.7	7.0	8.5	0.35	014-1
4386.00	cut	Sh/Clst: gy blk to m gy	5.2	10.6	1.9	1.8	4.2	2.7	3.7	6.9	1.80	046-2
4395.00	cut	Sh/Clst: gy blk to m gy	4.7	9.7	1.7	1.3	4.2	2.5	3.0	6.7	1.56	047-2
4404.00	cut	Sh/Clst: gy blk to m gy	5.0	14.8	1.7	1.8	4.5	6.8	3.5	11.3	1.73	048-2
4413.00	cut	Sh/Clst: gy blk to m gy	8.2	15.3	2.2	1.4	5.6	6.1	3.6	11.7	1.38	049-2
4422.00	cut	Sh/Clst: gy blk to m gy	9.0	16.1	3.0	1.7	4.6	6.8	4.7	11.4	1.38	050-2
4431.00	cut	Sh/Clst: gy blk to m gy	7.1	11.5	4.9	2.3	3.0	1.3	7.2	4.3	1.40	051-2
4454.26	ccp	S/Sst : lt gy to m gy	10.5	3.3	1.2	0.5	0.2	1.4	1.7	1.6	0.40	015-1
4460.14	ccp	S/Sst : lt gy to brn blk	10.1	4.6	0.6	0.7	0.9	2.4	1.3	3.3	0.47	017-1
4464.80	ccp	S/Sst : brn to lt gy	10.0	12.0	3.0	1.2	0.7	7.1	4.2	7.8	0.31	018-1

Table 6 a: Weight of ECM and Chromatographic Fraction for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	Rock Extracted (g)	ECM (mg)	Sat (mg)	Aro (mg)	Asph (mg)	NSO (mg)	HC (mg)	Non-HC (mg)	TOC(e) (%)	Sample
4480.12	ccp	S/Sst : lt gy	10.8	15.8	8.5	3.2	0.7	3.3	11.8	4.0	0.36	019-1
4486.88	ccp	S/Sst : lt gy	10.3	34.6	13.3	4.6	0.8	15.9	17.9	16.7	0.37	020-1
4515.84	ccp	S/Sst : lt gy	10.4	15.7	7.7	2.8	1.1	4.2	10.4	5.3	0.30	021-1
4518.62	ccp	S/Sst : m lt gy	10.1	71.7	18.7	5.9	12.5	34.6	24.6	47.1	0.61	022-1
4553.55	ccp	S/Sst : m lt gy	10.1	26.1	8.6	2.8	1.2	13.5	11.4	14.7	0.45	023-1
4592.00	oil	bulk	1.0	62.0	14.4	3.7	0.1	43.8	18.1	43.9	1.00	055-0
4606.43	ccp	S/Sst : m lt gy	10.2	20.4	7.4	3.2	0.6	9.1	10.7	9.7	0.33	024-1
4728.00	cut	Sh/Clst: gy blk to brn blk	2.1	9.9	1.2	1.6	4.3	2.8	2.8	7.1	2.65	052-3
4737.00	cut	Coal	0.4	42.2	1.0	2.2	27.3	11.7	3.2	39.0	59.27	053-6

Table 6 b: Concentration of EOM and Chromatographic Fraction (wt ppm rock) for well NCCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
4029.00	cut	Sh/Clst: brn blk	16870	540	341	1991	13997	881	15988	025-1
4041.00	cut	Sh/Clst: brn blk	15314	2966	2155	2230	7961	5122	10192	026-1
4050.00	cut	Sh/Clst: brn blk	13431	2448	2126	1759	7096	4574	8856	027-1
4184.30	ccp	Sh/Clst: brn blk	1778	237	289	750	500	527	1251	001-1
4199.35	ccp	Sh/Clst: brn blk	889	47	107	319	413	155	733	002-1
4235.60	ccp	S/Sst : lt gy	1218	371	119	39	687	491	727	003-1
4240.70	ccp	S/Sst : lt gy	1046	272	118	59	596	390	655	004-1
4246.62	ccp	S/Sst : lt gy	791	246	140	78	326	387	404	005-1
4250.60	ccp	S/Sst : lt gy	998	474	130	9	383	604	393	006-1
4259.64	ccp	S/Sst : lt gy	1198	409	116	19	653	526	672	007-1
4317.78	ccp	bulk	1170	276	120	110	664	396	774	008-0
4322.11	ccp	S/Sst : lt gy	913	393	119	29	371	512	401	009-1
4327.18	ccp	S/Sst : lt gy to m gy	848	324	69	77	378	393	455	010-1
4332.63	ccp	S/Sst : lt gy to m gy	856	334	92	38	390	427	429	011-1
4339.63	ccp	S/Sst : lt gy to m gy	1307	395	158	56	698	553	754	012-1

Table 6 b: Concentration of EOM and Chromatographic Fraction (wt ppm rock) for well NCCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
4343.18	ccp	S/Sst : lt gy to m gy	728	283	82	9	352	366	362	013-1
4352.00	oil	bulk	76700	23700	7600	100	45299	31300	45399	054-0
4355.12	ccp	S/Sst : lt gy to m gy	1047	272	118	19	636	391	656	016-1
4367.00	ccp	S/Sst : lt gy	1518	528	152	78	758	681	836	014-1
4386.00	cut	Sh/Clst: gy blk to m gy	2026	363	344	803	516	707	1319	046-2
4395.00	cut	Sh/Clst: gy blk to m gy	2046	358	274	886	527	632	1413	047-2
4404.00	cut	Sh/Clst: gy blk to m gy	2971	341	361	903	1365	702	2269	048-2
4413.00	cut	Sh/Clst: gy blk to m gy	1875	269	171	686	747	441	1433	049-2
4422.00	cut	Sh/Clst: gy blk to m gy	1794	334	189	512	758	523	1270	050-2
4431.00	cut	Sh/Clst: gy blk to m gy	1631	695	326	425	184	1021	609	051-2
4454.26	ccp	S/Sst : lt gy to m gy	313	113	45	18	134	159	153	015-1
4460.14	ccp	S/Sst : lt gy to brn blk	455	59	71	89	235	130	325	017-1
4464.80	ccp	S/Sst : brn to lt gy	1196	299	119	69	707	418	777	018-1
4480.12	ccp	S/Sst : lt gy	1464	789	300	64	309	1089	374	019-1
4486.88	ccp	S/Sst : lt gy	3362	1294	443	77	1547	1737	1624	020-1

Table 6 b: Concentration of ECM and Chromatographic Fraction (wt ppm rock) for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	ECM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
4515.84	ccp	S/Sst : lt gy	1506	737	264	105	399	1001	504	021-1
4518.62	ccp	S/Sst : m lt gy	7064	1844	579	1231	3408	2423	4640	022-1
4553.55	ccp	S/Sst : m lt gy	2571	851	271	118	1330	1123	1448	023-1
4592.00	oil	bulk	62000	14400	3700	100	43800	18100	43900	055-0
4606.43	ccp	S/Sst : m lt gy	2005	731	318	58	896	1050	955	024-1
4728.00	cut	Sh/Clst: gy blk to brn blk	4669	566	754	2028	1320	1320	3349	052-3
4737.00	cut	Coal	102926	2439	5365	66585	28536	7804	95121	053-6

Table 6 c: Concentration of ECM and Chromatographic Fraction (mg/g TOC(e)) for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	ECM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
4029.00	cut	Sh/Clst: brn blk	265.68	8.51	5.38	31.36	220.43	13.89	251.79	025-1
4041.00	cut	Sh/Clst: brn blk	240.80	46.65	33.90	35.07	125.18	80.55	160.25	026-1
4050.00	cut	Sh/Clst: brn blk	200.76	36.60	31.78	26.30	106.08	68.38	132.38	027-1
4184.30	ccp	Sh/Clst: brn blk	68.67	9.16	11.19	29.00	19.33	20.35	48.33	001-1
4199.35	ccp	Sh/Clst: brn blk	32.57	1.76	3.95	11.71	15.15	5.71	26.86	002-1
4235.60	ccp	S/Sst : lt gy	435.28	132.72	42.81	14.27	245.47	175.54	259.74	003-1
4240.70	ccp	S/Sst : lt gy	418.56	108.98	47.38	23.69	238.50	156.37	262.19	004-1
4246.62	ccp	S/Sst : lt gy	282.78	87.98	50.27	27.93	116.60	138.25	144.53	005-1
4250.60	ccp	S/Sst : lt gy	199.60	94.86	26.09	1.98	76.68	120.95	78.66	006-1
4259.64	ccp	S/Sst : lt gy	461.09	157.44	44.98	7.50	251.16	202.43	258.66	007-1
4317.78	ccp	bulk	195.00	46.00	20.00	18.33	110.67	66.00	129.00	008-0
4322.11	ccp	S/Sst : lt gy	338.37	145.65	44.14	11.03	137.56	189.78	148.59	009-1
4327.18	ccp	S/Sst : lt gy to m gy	385.73	147.28	31.56	35.07	171.82	178.84	206.89	010-1
4332.63	ccp	S/Sst : lt gy to m gy	285.53	111.65	30.80	12.83	130.25	142.44	143.09	011-1
4339.63	ccp	S/Sst : lt gy to m gy	363.23	109.75	43.90	15.68	193.90	153.65	209.57	012-1

Table 6 c: Concentration of ECM and Chromatographic Fraction (mg/g TOC(e)) for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	ECM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
4343.18	ccp	S/Sst : lt gy to m gy	260.12	101.24	29.53	3.52	125.84	130.76	129.36	013-1
4352.00	oil	bulk	******	******	760.00	10.00	4530.00	3130.00	4540.00	054-0
4355.12	ccp	S/Sst : lt gy to m gy	361.18	94.04	40.89	6.81	219.44	134.93	226.25	016-1
4367.00	ccp	S/Sst : lt gy	433.75	151.11	43.65	22.39	216.59	194.77	238.98	014-1
4386.00	cut	Sh/Clst: gy blk to m gy	112.60	20.18	19.12	44.61	28.68	39.30	73.30	046-2
4395.00	cut	Sh/Clst: gy blk to m gy	131.18	22.99	17.58	56.80	33.81	40.57	90.61	047-2
4404.00	cut	Sh/Clst: gy blk to m gy	171.79	19.73	20.89	52.23	78.93	40.62	131.16	048-2
4413.00	cut	Sh/Clst: gy blk to m gy	135.87	19.54	12.43	49.73	54.17	31.97	103.90	049-2
4422.00	cut	Sh/Clst: gy blk to m gy	130.06	24.24	13.73	37.16	54.93	37.97	92.09	050-2
4431.00	cut	Sh/Clst: gy blk to m gy	116.51	49.65	23.30	30.40	13.17	72.95	43.57	051-2
4454.26	ccp	S/Sst : lt gy to m gy	78.27	28.46	11.39	4.74	33.68	39.85	38.43	015-1
4460.14	ccp	S/Sst : lt gy to brn blk	97.00	12.65	15.18	18.98	50.19	27.83	69.16	017-1
4464.80	ccp	S/Sst : brn to lt gy	385.94	96.48	38.59	22.51	228.35	135.08	250.86	018-1
4480.12	ccp	S/Sst : lt gy	406.76	219.34	83.41	18.02	85.98	302.75	104.01	019-1
4486.88	ccp	S/Sst : lt gy	908.78	349.85	119.77	21.01	418.14	469.62	439.16	020-1

Table 6 c: Concentration of ECM and Chromatographic Fraction (mg/g TOC(e)) for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	ECM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
4515.84	ccp	S/Sst : lt gy	502.24	245.68	88.29	35.19	133.08	333.97	168.27	021-1
4518.62	ccp	S/Sst : m lt gy	1158.04	302.35	94.97	201.89	558.83	397.32	760.72	022-1
4553.55	ccp	S/Sst : m lt gy	571.43	189.16	60.43	26.27	295.57	249.59	321.84	023-1
4592.00	oil	bulk	******	******	370.00	10.00	4380.00	1810.00	4390.00	055-0
4606.43	ccp	S/Sst : m lt gy	607.85	221.69	96.54	17.88	271.74	318.23	289.62	024-1
4728.00	cut	Sh/Clst: gy blk to brn blk	176.22	21.36	28.48	76.54	49.84	49.84	126.38	052-3
4737.00	cut	Coal	173.66	4.12	9.05	112.34	48.15	13.17	160.49	053-6

Table 6 d: Composition of material extracted from the rock (%) for well NOCS 6306/12-6

Depth unit of measure: m

Depth	Typ	Lithology	Sat / EOM	Aro / EOM	Asph / EOM	NSO / EOM	HC / EOM	Non-HC / EOM	Sat / Aro	HC / Non-HC	Sample
4029.00	cut	Sh/Clst: brn blk	3.20	2.02	11.80	82.97	5.23	94.77	158.33	5.52	025-1
4041.00	cut	Sh/Clst: brn blk	19.37	14.08	14.56	51.99	33.45	66.55	137.62	50.26	026-1
4050.00	cut	Sh/Clst: brn blk	18.23	15.83	13.10	52.84	34.06	65.94	115.17	51.66	027-1
4184.30	ccp	Sh/Clst: brn blk	13.33	16.30	42.22	28.15	29.63	70.37	81.82	42.11	001-1
4199.35	ccp	Sh/Clst: brn blk	5.39	12.13	35.96	46.52	17.53	82.47	44.44	21.25	002-1
4235.60	ccp	S/Sst : lt gy	30.49	9.84	3.28	56.39	40.33	59.67	310.00	67.58	003-1
4240.70	ccp	S/Sst : lt gy	26.04	11.32	5.66	56.98	37.36	62.64	230.00	59.64	004-1
4246.62	ccp	S/Sst : lt gy	31.11	17.78	9.88	41.23	48.89	51.11	175.00	95.65	005-1
4250.60	ccp	S/Sst : lt gy	47.52	13.07	0.99	38.42	60.59	39.41	363.64	153.77	006-1
4259.64	ccp	S/Sst : lt gy	34.15	9.76	1.63	54.47	43.90	56.10	350.00	78.26	007-1
4317.78	ccp	bulk	23.59	10.26	9.40	56.75	33.85	66.15	230.00	51.16	008-0
4322.11	ccp	S/Sst : lt gy	43.04	13.04	3.26	40.65	56.09	43.91	330.00	127.72	009-1
4327.18	ccp	S/Sst : lt gy to m gy	38.18	8.18	9.09	44.55	46.36	53.64	466.67	86.44	010-1
4332.63	ccp	S/Sst : lt gy to m gy	39.10	10.79	4.49	45.62	49.89	50.11	362.50	99.55	011-1

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Table 6 d: Composition of material extracted from the rock (%) for well NCCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	Sat / EOM	Aro / EOM	Asph / EOM	NSO / EOM	HC / EOM	Non-HC / EOM	Sat / Aro	HC / Non-HC	Sample
4339.63	ccp	S/Sst : lt gy to m gy	30.22	12.09	4.32	53.38	42.30	57.70	250.00	73.32	012-1
4343.18	ccp	S/Sst : lt gy to m gy	38.92	11.35	1.35	48.38	50.27	49.73	342.86	101.09	013-1
4352.00	oil	bulk	30.90	9.91	0.13	59.06	40.81	59.19	311.84	68.94	054-0
4355.12	ccp	S/Sst : lt gy to m gy	26.04	11.32	1.89	60.75	37.36	62.64	230.00	59.64	016-1
4367.00	ccp	S/Sst : lt gy	34.84	10.06	5.16	49.94	44.90	55.10	346.15	81.50	014-1
4386.00	cut	Sh/Clst: gy blk to m gy	17.92	16.98	39.62	25.47	34.91	65.09	105.56	53.62	046-2
4395.00	cut	Sh/Clst: gy blk to m gy	17.53	13.40	43.30	25.77	30.93	69.07	130.77	44.78	047-2
4404.00	cut	Sh/Clst: gy blk to m gy	11.49	12.16	30.41	45.95	23.65	76.35	94.44	30.97	048-2
4413.00	cut	Sh/Clst: gy blk to m gy	14.38	9.15	36.60	39.87	23.53	76.47	157.14	30.77	049-2
4422.00	cut	Sh/Clst: gy blk to m gy	18.63	10.56	28.57	42.24	29.19	70.81	176.47	41.23	050-2
4431.00	cut	Sh/Clst: gy blk to m gy	42.61	20.00	26.09	11.30	62.61	37.39	213.04	167.44	051-2
4454.26	ccp	S/Sst : lt gy to m gy	36.36	14.55	6.06	43.03	50.91	49.09	250.00	103.70	015-1
4460.14	ccp	S/Sst : lt gy to brn blk	13.04	15.65	19.57	51.74	28.70	71.30	83.33	40.24	017-1
4464.80	ccp	S/Sst : brn to lt gy	25.00	10.00	5.83	59.17	35.00	65.00	250.00	53.85	018-1

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Table 6 d: Composition of material extracted from the rock (%) for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	Sat / ECM	Aro / EOM	Asph / EOM	NSO / EOM	HC / EOM	Non-HC / EOM	Sat / Aro	HC / Non-HC	Sample
4480.12	ccp	S/Sst : lt gy	53.92	20.51	4.43	21.14	74.43	25.57	262.96	291.09	019-1
4486.88	ccp	S/Sst : lt gy	38.50	13.18	2.31	46.01	51.68	48.32	292.11	106.94	020-1
4515.84	ccp	S/Sst : lt gy	48.92	17.58	7.01	26.50	66.50	33.50	278.26	198.48	021-1
4518.62	ccp	S/Sst : m lt gy	26.11	8.20	17.43	48.26	34.31	65.69	318.37	52.23	022-1
4553.55	ccp	S/Sst : m lt gy	33.10	10.57	4.60	51.72	43.68	56.32	313.04	77.55	023-1
4592.00	oil	bulk	23.23	5.97	0.16	70.65	29.19	70.81	389.19	41.23	055-0
4606.43	ccp	S/Sst : m lt gy	36.47	15.88	2.94	44.71	52.35	47.65	229.63	109.88	024-1
4728.00	cut	Sh/Clst: gy blk to brn blk	12.12	16.16	43.43	28.28	28.28	71.72	75.00	39.44	052-3
4737.00	cut	Coal	2.37	5.21	64.69	27.73	7.58	92.42	45.45	8.21	053-6

Table 7 : Tabulation of data from the saturated fraction chromatogram for well NOCS 6506/12-6

Depth unit of measure : m

Depth	Typ	Lithology	Pristane nC17	Pristane Phytane	Phytane nC18	CPI1	CPI2	Alkanes Total	Sample
4029.00	cut	Sh/Clst: brn blk	0.7	1.0	0.7	1.0	1.0	0.5	025-1
4041.00	cut	Sh/Clst: brn blk	0.9	1.2	0.9	1.0	1.0	0.3	026-1
4050.00	cut	Sh/Clst: brn blk	0.8	1.2	0.8	1.0	1.0	0.4	027-1
4184.30	ccp	Sh/Clst: brn blk	0.7	3.2	0.2	1.0	1.1	0.6	001-1
4199.35	ccp	Sh/Clst: brn blk	0.9	3.5	0.3	1.1	1.0	0.6	002-1
4235.60	ccp	S/Sst : lt gy	0.9	1.1	0.8	1.1	1.0	0.3	003-1
4240.70	ccp	S/Sst : lt gy	1.0	1.3	0.8	1.0	1.1	0.4	004-1
4246.62	ccp	S/Sst : lt gy	0.9	1.4	0.7	1.1	1.0	0.5	005-1
4250.60	ccp	S/Sst : lt gy	0.9	1.5	0.7	1.1	1.0	0.5	006-1
4259.64	ccp	S/Sst : lt gy	0.8	1.5	0.6	1.0	1.0	0.5	007-1
4317.78	ccp	bulk	0.8	1.3	0.6	1.1	1.0	0.5	008-0
4322.11	ccp	S/Sst : lt gy	0.8	1.4	0.6	1.0	0.9	0.5	009-1
4327.18	ccp	S/Sst : lt gy to m gy	0.9	1.4	0.7	1.1	1.0	0.4	010-1
4332.63	ccp	S/Sst : lt gy to m gy	0.9	1.4	0.6	1.0	1.0	0.5	011-1

Table 7 : Tabulation of data from the saturated fraction chromatogram for well NCCS 6506/12-6

Depth unit of measure : m

Depth	Typ	Lithology	Pristane nC17	Pristane Phytane	Phytane nC18	CPI1	CPI2	Alkanes Total	Sample
4339.63	ccp	S/Sst : lt gy to m gy	0.9	1.4	0.7	1.0	1.0	0.4	012-1
4343.18	ccp	S/Sst : lt gy to m gy	0.8	1.5	0.6	1.0	1.0	0.5	013-1
4352.00	oil	bulk : DST-3	0.8	1.6	0.6	1.0	1.0	0.5	054-0
4355.12	ccp	S/Sst : lt gy to m gy	1.0	1.5	0.7	1.1	1.0	0.4	016-1
4367.00	ccp	S/Sst : lt gy	0.8	1.4	0.6	1.1	1.0	0.5	014-1
4386.00	cut	Sh/Clst: gy blk to m gy	0.6	1.7	0.4	1.1	1.1	0.5	046-2
4395.00	cut	Sh/Clst: gy blk to m gy	0.6	1.7	0.4	1.1	1.2	0.4	047-2
4404.00	cut	Sh/Clst: gy blk to m gy	0.5	2.5	0.2	1.1	1.2	0.6	048-2
4413.00	cut	Sh/Clst: gy blk to m gy	0.5	2.0	0.3	1.1	1.1	0.6	049-2
4422.00	cut	Sh/Clst: gy blk to m gy	0.5	2.8	0.2	1.1	1.1	0.6	050-1
4431.00	cut	Sh/Clst: gy blk to m gy	1.1	1.8	0.7	1.2	1.2	0.5	051-2
4454.26	ccp	S/Sst : lt gy to m gy	0.4	1.8	0.2	1.0	1.0	0.6	015-1
4460.14	ccp	S/Sst : lt gy to brn blk	0.4	1.4	0.3	1.0	1.0	0.5	017-1
4464.80	ccp	S/Sst : brn to lt gy	0.9	1.3	0.7	1.1	1.0	0.4	018-1
4480.12	ccp	S/Sst : lt gy	0.8	1.3	0.6	1.0	1.0	0.4	019-1

Table 7 : Tabulation of data from the saturated fraction chromatogram for well NCCS 6506/12-6

Depth unit of measure : m

Depth	Typ	Lithology	Pristane nC17	Pristane Phytane	Phytane nC18	CPI1	CPI2	Alkanes Total	Sample
4486.88	ccp	S/Sst : lt gy	0.9	1.4	0.6	1.0	1.0	0.4	020-1
4515.84	ccp	S/Sst : lt gy	0.7	1.4	0.5	1.0	1.0	0.5	021-1
4518.62	ccp	S/Sst : m lt gy	0.7	1.4	0.5	1.1	1.1	0.5	022-1
4553.55	ccp	S/Sst : m lt gy	0.7	1.3	0.5	1.0	1.0	0.5	023-1
4592.00	oil	bulk : DST-1	0.7	1.6	0.5	1.1	1.1	0.5	055-0
4606.43	ccp	S/Sst : m lt gy	0.9	1.3	0.6	1.0	1.0	0.4	024-1
4728.00	cut	Sh/Clst: gy blk to brn blk	0.5	1.3	0.4	1.1	1.1	0.6	052-3
4737.00	cut	Coal	0.4	1.9	0.2	1.3	1.1	0.6	053-4

$$CPI1 = \frac{1}{2} * \frac{C25 + C27 + C29 + C31}{C24 + C26 + C28 + C30} + \frac{C25 + C27 + C29 + C31}{C26 + C28 + C30 + C32}$$

$$CPI2 = \frac{2 * C27}{C26 + C28}$$

$$\frac{\text{Alkanes}}{\text{Total}} = \frac{\text{Sum of n-alkanes C15 to C35}}{\text{Total amount of alkanes C15 to C35}}$$

(Relative intensity of the area of the peaks)

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Table 7b: N-paraffins in range C15 - C35, for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	Sample
4029.00	cut	Sh/Clst: brn blk	025-1

Peak nr.	Retention time	Height uV	Area uV	Percent	Identity
42	15.896	1236	3796	4.703	nC15
56	18.819	1556	4717	5.922	nC16
69	21.640	1514	4829	5.759	nC17
70	21.912	661	3395	2.515	Pristane
85	24.349	1368	4370	5.203	nC18
87	24.685	619	3235	2.355	Phytane
97	26.936	1148	5016	4.369	nC19
110	29.411	1093	3815	4.158	nC20
122	31.768	883	2994	3.360	nC21
133	34.024	832	2629	3.164	nC22
144	36.195	671	2185	2.555	nC23
157	38.280	624	2063	2.373	nC24
167	40.291	499	1830	1.898	nC25
177	42.221	469	1494	1.785	nC26
185	44.088	364	1294	1.386	nC27
193	45.885	291	1076	1.107	nC28
201	47.619	244	909	0.929	nC29
207	49.304	190	851	0.722	nC30
213	50.941	147	655	0.559	nC31
217	52.531	110	470	0.417	nC32
220	54.077	85	514	0.323	nC33
225	55.587	73	596	0.279	nC34

Table 7b: N-paraffins in range C15 - C35, for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	Sample
4041.00	cut	Sh/Clst: brn blk	026-1

Peak nr.	Retention time	Height uV	Area uV	Percent	Identity
87	15.923	3095	10868	2.647	nC15
104	18.845	2914	10790	2.628	nC16
120	21.661	2542	9306	2.266	nC17
121	21.928	1165	8129	1.980	Pristane
134	24.365	2202	7826	1.906	nC18
136	24.701	1050	6720	1.637	Phytane
149	26.952	1852	9162	2.231	nC19
161	29.421	1738	6905	1.682	nC20
174	31.779	1355	5534	1.348	nC21
185	34.040	1235	4264	1.038	nC22
197	36.205	966	3580	0.872	nC23
210	38.291	926	3120	0.760	nC24
221	40.296	691	2715	0.661	nC25
231	42.232	649	2258	0.550	nC26
240	44.088	501	1847	0.450	nC27
249	45.880	423	1467	0.357	nC28
257	47.613	366	1361	0.331	nC29
263	49.299	291	1381	0.336	nC30
269	50.931	221	987	0.240	nC31
274	52.520	184	814	0.198	nC32
280	54.061	140	830	0.202	nC33
285	55.576	116	977	0.238	nC34
289	57.160	66	546	0.133	nC35

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Table 7b: N-paraffins in range C15 - C35, for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	Sample
4050.00	cut	Sh/Clst: brn blk	027-1

Peak nr.	Retention time	Height uV	Area uV	Percent	Identity
90	15.976	3253	11117	4.073	nC15
108	18.899	3057	10703	3.827	nC16
123	21.709	2633	9290	3.297	nC17
124	21.981	1189	7604	1.489	Pristane
137	24.413	2244	7985	2.810	nC18
139	24.733	1025	6386	1.284	Phytane
151	26.995	1954	9481	2.447	nC19
163	29.464	1729	6709	2.165	nC20
176	31.816	1404	5316	1.758	nC21
188	34.072	1273	4255	1.594	nC22
200	36.232	1012	3531	1.267	nC23
213	38.317	971	3259	1.216	nC24
223	40.323	735	2472	0.921	nC25
234	42.253	685	2357	0.857	nC26
242	44.115	553	1972	0.693	nC27
251	45.907	439	1571	0.549	nC28
259	47.640	376	1471	0.470	nC29
266	49.320	309	1414	0.387	nC30
272	50.952	230	1146	0.288	nC31
277	52.547	191	782	0.239	nC32
283	54.088	137	779	0.172	nC33
288	55.592	125	1076	0.156	nC34

Table 7b: N-paraffins in range C15 - C35, for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	Sample
4084.30	ccp	Sh/Clst: brn blk	001-1

Peak nr.	Retention time	Height uV	Area uV	Percent	Identity
61	15.944	2656	7988	5.644	nC15
74	18.867	2559	7922	5.437	nC16
88	21.683	2414	7493	5.129	nC17
89	21.955	1030	4992	2.189	Pristane
103	24.381	2284	7642	4.853	nC18
104	24.707	259	1583	0.551	Phytane
115	26.963	2090	7304	4.440	nC19
127	29.427	1889	6336	4.015	nC20
136	31.784	1812	5869	3.850	nC21
147	34.035	1760	5575	3.739	nC22
156	36.205	1659	5301	3.526	nC23
167	38.285	1512	5499	3.212	nC24
174	40.285	1296	4460	2.754	nC25
184	42.216	1076	3768	2.286	nC26
192	44.072	993	3344	2.110	nC27
199	45.869	725	2585	1.540	nC28
206	47.597	638	2166	1.356	nC29
213	49.277	456	2026	0.969	nC30
218	50.915	401	1710	0.851	nC31
222	52.504	308	1297	0.655	nC32
227	54.045	326	1833	0.693	nC33
232	55.549	225	1445	0.478	nC34

Table 7b: N-paraffins in range C15 - C35, for well NOCS 6506/12-6

Depth unit of measure: m page: 5

Depth	Typ	Lithology	Sample
4199.35	ccp	Sh/Clst: brn blk	002-1

Peak nr.	Retention time	Height uV	Area uV	Percent	Identity
59	15.976	4380	13788	5.974	nC15
75	18.899	4184	13760	5.708	nC16
91	21.715	3806	12528	5.192	nC17
92	21.987	2398	11320	3.271	Pristane
106	24.419	3556	12314	4.850	nC18
108	24.723	530	3256	0.723	Phytane
120	27.000	3231	11881	4.408	nC19
132	29.475	2987	10433	4.075	nC20
142	31.827	2737	9055	3.734	nC21
154	34.077	2516	8228	3.432	nC22
164	36.248	2336	7751	3.186	nC23
177	38.323	2067	7756	2.829	nC24
186	40.328	1871	6437	2.553	nC25
195	42.259	1554	5240	2.119	nC26
204	44.115	1374	4493	1.875	nC27
212	45.907	983	3847	1.341	nC28
219	47.635	795	2779	1.085	nC29
226	49.315	517	1896	0.705	nC30
232	50.952	454	2148	0.619	nC31
237	52.541	250	947	0.341	nC32
243	54.083	266	1412	0.363	nC33
249	55.581	173	1690	0.235	nC34

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Table 7b: N-paraffins in range C15 - C35, for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	Sample
4235.60	ccp	S/Sst : lt gy	003-1

Peak nr.	Retention time	Height uV	Area uV	Percent	Identity
61	15.987	5616	20075	3.194	nC15
77	18.925	6109	24227	3.474	nC16
94	21.747	6073	25033	3.454	nC17
95	22.013	3820	21689	2.172	Pristane
108	24.451	6095	24174	3.467	nC18
110	24.781	3091	18995	1.758	Phytane
123	27.043	5505	31038	3.131	nC19
136	29.512	5396	26398	3.069	nC20
148	31.864	4698	21319	2.672	nC21
162	34.125	4640	17967	2.639	nC22
175	36.291	4153	16687	2.362	nC23
190	38.376	3786	16264	2.153	nC24
202	40.376	3263	18182	1.856	nC25
211	42.307	3020	11922	1.717	nC26
219	44.168	2618	11086	1.489	nC27
230	45.955	2245	11554	1.277	nC28
239	47.688	2048	9398	1.165	nC29
249	49.368	1578	6473	0.898	nC30
256	50.995	1302	5688	0.740	nC31
265	52.584	1065	4645	0.606	nC32
272	54.131	888	5139	0.505	nC33
278	55.629	702	7144	0.399	nC34

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Table 7b: N-paraffins in range C15 - C35, for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	Sample
4240.70	ccp	S/Sst : lt gy	004-1

Peak nr.	Retention time	Height uV	Area uV	Percent	Identity
48	15.917	2755	8867	4.241	nC15
63	18.845	3177	10736	4.890	nC16
78	21.672	3150	11003	4.849	nC17
79	21.933	1915	10576	2.948	Pristane
92	24.371	2985	10472	4.595	nC18
94	24.712	1408	8094	2.167	Phytane
106	26.963	2787	10633	4.290	nC19
118	29.432	2752	9980	4.237	nC20
131	31.789	2291	8351	3.526	nC21
142	34.045	2156	7111	3.319	nC22
153	36.211	1811	6236	2.788	nC23
166	38.296	1632	5358	2.512	nC24
177	40.296	1268	4926	1.952	nC25
186	42.227	1113	3692	1.713	nC26
194	44.088	922	3319	1.420	nC27
203	45.880	733	2518	1.129	nC28
212	47.619	647	2229	0.995	nC29
219	49.293	478	1891	0.735	nC30
225	50.931	392	1352	0.603	nC31
230	52.515	304	1179	0.468	nC32
235	54.056	258	1364	0.398	nC33
240	55.560	194	1413	0.298	nC34

Table 7b: N-paraffins in range C15 - C35, for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	Sample
4246.62	ccp	S/Sst : lt gy	005-1

Peak nr.	Retention time	Height uV	Area uV	Percent	Identity
47	15.928	2671	8075	5.341	nC15
61	18.856	2896	9165	5.791	nC16
73	21.667	2863	9274	5.725	nC17
74	21.949	1704	8551	3.408	Pristane
86	24.376	2651	8548	5.301	nC18
88	24.712	1211	6231	2.422	Phytane
101	26.963	2334	8314	4.666	nC19
113	29.432	2189	7224	4.376	nC20
126	31.789	1755	5778	3.509	nC21
137	34.040	1608	5128	3.215	nC22
148	36.205	1342	4352	2.683	nC23
160	38.285	1181	3790	2.361	nC24
169	40.291	914	3503	1.827	nC25
177	42.221	781	2601	1.562	nC26
185	44.077	641	2098	1.281	nC27
194	45.875	486	1662	0.973	nC28
203	47.603	447	1539	0.894	nC29
209	49.283	336	1240	0.671	nC30
215	50.915	273	950	0.545	nC31
219	52.504	204	735	0.408	nC32
224	54.045	181	911	0.362	nC33
229	55.544	133	1080	0.265	nC34

Table 7b: N-paraffins in range C15 - C35, for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	Sample
4250.60	ccp	S/Sst : lt gy	006-1

Peak nr.	Retention time	Height uV	Area uV	Percent	Identity
51	15.981	1995	5992	5.517	nC15
64	18.909	2200	6602	6.084	nC16
76	21.725	2091	6749	5.781	nC17
77	21.997	1255	6141	3.471	Pristane
89	24.424	1875	5982	5.185	nC18
91	24.760	828	4193	2.289	Phytane
101	27.005	1712	6634	4.734	nC19
113	29.469	1563	5101	4.322	nC20
125	31.827	1289	4110	3.566	nC21
134	34.077	1161	3715	3.210	nC22
142	36.248	981	3202	2.714	nC23
154	38.328	884	2817	2.445	nC24
164	40.333	696	2622	1.925	nC25
172	42.264	593	1898	1.640	nC26
180	44.125	488	1647	1.350	nC27
189	45.923	400	1303	1.105	nC28
197	47.651	345	1131	0.955	nC29
203	49.325	261	1012	0.723	nC30
207	50.963	209	744	0.578	nC31
211	52.552	155	522	0.430	nC32
215	54.088	136	559	0.377	nC33
218	55.592	95	669	0.264	nC34

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Table 7b: N-paraffins in range C15 - C35, for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	Sample
4259.64	ccp	S/Sst : lt gy	007-1

Peak nr.	Retention time	Height uV	Area uV	Percent	Identity
53	15.967	1892	5654	4.701	nC15
67	18.904	2044	6160	5.078	nC16
79	21.715	1935	6217	4.808	nC17
80	21.981	979	4914	2.433	Pristane
92	24.419	1801	5628	4.474	nC18
94	24.749	682	3359	1.694	Phytane
104	27.000	1676	6674	4.163	nC19
116	29.464	1584	5350	3.936	nC20
128	31.816	1430	4670	3.552	nC21
139	34.072	1362	4267	3.384	nC22
150	36.237	1186	3905	2.948	nC23
162	38.312	1158	3664	2.887	nC24
171	40.317	952	3166	2.365	nC25
180	42.248	892	2875	2.215	nC26
188	44.104	774	2556	1.924	nC27
197	45.896	652	2144	1.621	nC28
206	47.624	588	1881	1.462	nC29
213	49.304	443	1796	1.099	nC30
219	50.931	371	1302	0.922	nC31
224	52.515	300	1026	0.746	nC32
229	54.056	273	1270	0.678	nC33
234	55.560	201	1474	0.500	nC34

Table 7b: N-paraffins in range C15 - C35, for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	Sample
4317.78	ccp	bulk	008-0

Peak nr.	Retention time	Height uV	Area uV	Percent	Identity
16	15.971	1365	4042	2.630	nC15
29	18.904	2539	7876	4.893	nC16
43	21.725	3032	9983	5.843	nC17
44	21.992	1580	8257	3.046	Pristane
56	24.424	3063	10264	5.904	nC18
58	24.755	1199	6576	2.310	Phytane
70	27.011	2840	10561	5.474	nC19
82	29.475	2715	9550	5.233	nC20
95	31.827	2315	8144	4.461	nC21
108	34.083	2124	6936	4.093	nC22
119	36.248	1811	6315	3.490	nC23
132	38.238	1665	5612	3.209	nC24
143	40.333	1338	5647	2.579	nC25
152	42.259	1165	3942	2.244	nC26
160	44.120	1017	3348	1.959	nC27
169	45.912	792	2747	1.526	nC28
178	47.640	726	2455	1.399	nC29
185	49.315	536	2034	1.033	nC30
191	50.947	426	1476	0.822	nC31
196	52.536	331	1116	0.638	nC32
201	54.077	286	1310	0.551	nC33
206	55.571	198	1556	0.382	nC34

Table 7b: N-paraffins in range C15 - C35, for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	Sample
4322.11	ccp	S/Sst : lt gy	009-1

Peak nr.	Retention time	Height uV	Area uV	Percent	Identity
43	15.987	1998	6025	4.548	nC15
56	18.915	2278	7063	5.186	nC16
69	21.731	2381	7464	5.418	nC17
70	22.003	1234	6012	2.809	Pristane
82	24.429	2262	7138	5.149	nC18
96	27.016	2077	7292	4.728	nC19
108	29.480	1985	6631	4.517	nC20
121	31.832	1717	5557	3.907	nC21
133	34.083	1612	5119	3.669	nC22
144	36.248	1416	4601	3.224	nC23
156	38.333	1302	4310	2.963	nC24
166	40.333	1141	4149	2.596	nC25
174	42.264	1016	3260	2.312	nC26
182	44.120	835	2769	1.899	nC27
191	45.912	685	2279	1.559	nC28
200	47.645	608	2009	1.383	nC29
207	49.320	441	1639	1.003	nC30
213	50.957	368	1272	0.838	nC31
218	52.547	293	994	0.666	nC32
223	54.083	243	1081	0.554	nC33
228	55.581	177	1064	0.404	nC34

Table 7b: N-paraffins in range C15 - C35, for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	Sample
4327.18	ccp	S/Sst : lt gy to m gy	010-1

Peak nr.	Retention time	Height uV	Area uV	Percent	Identity
46	15.944	2978	9816	4.721	nC15
61	18.872	3378	11372	5.356	nC16
75	21.688	3215	11360	5.097	nC17
76	21.955	1842	10546	2.920	Pristane
89	24.381	2999	10604	4.756	nC18
91	24.712	1297	7668	2.056	Phytane
103	26.957	2706	10559	4.290	nC19
115	29.421	2541	9627	4.028	nC20
128	31.773	2077	7820	3.293	nC21
140	34.024	1913	6380	3.033	nC22
150	36.189	1558	5709	2.471	nC23
163	38.269	1364	4686	2.162	nC24
173	40.269	1091	4099	1.730	nC25
183	42.195	886	2969	1.405	nC26
191	44.056	673	2397	1.068	nC27
199	45.848	525	1745	0.832	nC28
206	47.576	450	1549	0.714	nC29
211	49.251	306	1246	0.485	nC30
216	50.883	248	898	0.393	nC31
220	52.472	177	685	0.281	nC32
224	54.008	146	716	0.231	nC33
228	55.507	104	834	0.165	nC34

Table 7b: N-paraffins in range C15 - C35, for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	Sample
4332.63	ccp	S/Sst : lt gy to m gy	011-1

Peak nr.	Retention time	Height uV	Area uV	Percent	Identity
36	15.880	1556	4688	4.292	nC15
49	18.813	2049	6279	5.649	nC16
62	21.635	2213	7090	6.102	nC17
63	21.907	1228	6152	3.387	Pristane
75	24.344	2195	6926	6.054	nC18
77	24.664	864	4377	2.383	Phytane
89	26.931	2043	7350	5.633	nC19
101	29.400	1996	6850	5.505	nC20
114	31.757	1669	5814	4.602	nC21
125	34.013	1501	4929	4.140	nC22
136	36.179	1223	4107	3.372	nC23
149	38.259	1016	3351	2.801	nC24
158	40.269	794	2569	2.191	nC25
167	42.200	612	2113	1.688	nC26
175	44.061	481	1613	1.326	nC27
182	45.853	340	1099	0.936	nC28
189	47.587	291	905	0.802	nC29
194	49.267	189	627	0.521	nC30
198	50.904	149	520	0.410	nC31
201	52.488	105	357	0.289	nC32
204	54.035	81	327	0.224	nC33
206	55.539	53	368	0.147	nC34

Table 7b: N-paraffins in range C15 - C35, for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	Sample
4339.63	ccp	S/Sst : lt gy to m gy	012-1

Peak nr.	Retention time	Height uV	Area uV	Percent	Identity
53	15.917	2969	9813	4.861	nC15
69	18.845	3259	11122	5.335	nC16
84	21.661	3122	11096	5.111	nC17
85	21.933	1785	10378	2.923	Pristane
98	24.365	2940	10229	4.814	nC18
100	24.691	1241	7471	2.031	Phytane
112	26.952	2614	10112	4.280	nC19
125	29.421	2397	8881	3.924	nC20
138	31.773	1986	7206	3.251	nC21
151	34.035	1731	5850	2.834	nC22
160	36.195	1368	5093	2.239	nC23
173	38.285	1226	4009	2.006	nC24
183	40.291	900	3001	1.474	nC25
192	42.221	753	2441	1.234	nC26
200	44.083	598	2101	0.979	nC27
208	45.880	448	1601	0.734	nC28
217	47.613	382	1231	0.626	nC29
223	49.293	268	1070	0.439	nC30
228	50.931	203	772	0.333	nC31
232	52.520	149	553	0.244	nC32
236	54.067	133	709	0.217	nC33
240	55.571	91	711	0.148	nC34

Table 7b: N-paraffins in range C15 - C35, for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	Sample
4343.18	ccp	S/Sst : lt gy to m gy	013-1

Peak nr.	Retention time	Height uV	Area uV	Percent	Identity
54	16.003	2923	8987	5.424	nC15
69	18.931	3166	9811	5.876	nC16
82	21.572	2984	9742	5.538	nC17
83	22.019	1615	8112	2.996	Pristane
95	24.451	2729	8826	5.063	nC18
97	24.781	1087	5446	2.018	Phytane
109	27.037	2529	8719	4.693	nC19
121	29.501	2336	7603	4.334	nC20
134	31.853	1953	6253	3.625	nC21
147	34.109	1753	5544	3.253	nC22
158	36.269	1450	4745	2.690	nC23
171	38.349	1297	4220	2.407	nC24
181	40.355	1018	3418	1.888	nC25
190	42.285	864	2868	1.603	nC26
198	44.147	684	2382	1.269	nC27
207	45.933	563	1915	1.044	nC28
215	47.667	474	1533	0.880	nC29
222	49.347	345	1298	0.641	nC30
228	50.984	260	924	0.483	nC31
233	52.568	202	718	0.375	nC32
239	54.115	166	764	0.308	nC33
244	55.613	120	885	0.223	nC34

Table 7b: N-paraffins in range C15 - C35, for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	Sample
4352.00	oil	Dst-3	054-0

Peak nr.	Retention time	Height uV	Area uV	Percent	Identity
101	20.877	5596	19561	4.770	nC15
119	23.853	4861	16745	4.144	nC16
136	26.696	4202	14816	3.582	nC17
137	26.963	2311	11657	1.970	Pristane
149	29.405	3582	11906	3.054	nC18
151	29.731	1413	7211	1.205	Phytane
164	31.987	3060	11023	2.608	nC19
176	34.456	2708	9390	2.308	nC20
188	36.808	2214	7572	1.887	nC21
202	39.059	2035	6438	1.735	nC22
212	41.224	1670	5502	1.424	nC23
225	43.309	1518	4839	1.294	nC24
236	45.309	1179	3854	1.005	nC25
245	47.235	998	3236	0.850	nC26
253	49.091	820	2844	0.699	nC27
261	50.883	641	2220	0.546	nC28
269	52.611	548	1782	0.467	nC29
276	54.291	394	1367	0.336	nC30
282	55.923	303	1048	0.259	nC31
286	57.512	221	759	0.189	nC32
291	59.053	179	868	0.153	nC33
295	60.557	127	937	0.108	nC34
298	62.147	50	405	0.042	nC35

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Table 7b: N-paraffins in range C15 - C35, for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	Sample
4355.12	ccp	S/Sst : lt gy to m gy	016-1

Peak nr.	Retention time	Height uV	Area uV	Percent	Identity
53	15.933	3186	10502	4.566	nC15
69	18.867	3467	11851	4.967	nC16
82	21.693	3432	11999	4.917	nC17
83	21.960	1989	11408	2.851	Pristane
95	24.397	3246	11244	4.650	nC18
97	24.733	1335	7849	1.913	Phytane
109	26.989	2989	13741	4.283	nC19
121	29.464	2843	10427	4.074	nC20
134	31.821	2438	8820	3.493	nC21
148	34.083	2236	7403	3.203	nC22
160	36.248	1882	6409	2.696	nC23
174	38.333	1627	5364	2.331	nC24
184	40.339	1259	4885	1.804	nC25
193	42.269	1047	3496	1.500	nC26
201	44.125	848	2915	1.215	nC27
210	45.923	683	2205	0.978	nC28
219	47.656	549	1815	0.787	nC29
226	49.331	385	1456	0.552	nC30
232	50.968	295	1043	0.422	nC31
237	52.557	216	734	0.309	nC32
242	54.093	175	848	0.250	nC33
247	55.597	124	903	0.178	nC34

Table 7b: N-paraffins in range C15 - C35, for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	Sample
4367.00	ccp	S/Sst : lt gy	014-1

Peak nr.	Retention time	Height uV	Area uV	Percent	Identity
47	15.896	2975	9375	3.965	nC15
63	18.829	3643	11971	4.857	nC16
78	21.656	3898	13186	5.196	nC17
79	21.928	2161	10832	2.881	Pristane
93	24.360	3824	13129	5.097	nC18
95	24.685	1551	7881	2.067	Phytane
108	26.947	3572	13540	4.761	nC19
120	29.411	3565	12624	4.752	nC20
133	31.768	3180	11186	4.239	nC21
147	34.024	2906	9836	3.874	nC22
159	36.184	2532	8699	3.375	nC23
173	38.269	2286	7792	3.047	nC24
184	40.264	1845	7544	2.460	nC25
193	42.200	1568	5306	2.090	nC26
201	44.056	1294	4547	1.725	nC27
211	45.843	1073	3733	1.382	nC28
220	47.576	897	3091	1.195	nC29
227	49.256	649	2523	0.865	nC30
233	50.888	517	2019	0.689	nC31
238	52.472	376	1380	0.501	nC32
244	54.019	312	1647	0.416	nC33
249	55.517	217	1722	0.290	nC34

Table 7b: N-paraffins in range C15 - C35, for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	Sample
4386.00	cut	Sh/Clst: gy blk to m gy	046-2

Peak nr.	Retention time	Height uV	Area uV	Percent	Identity
67	15.981	4531	15138	5.643	nC15
84	18.904	4560	15956	5.678	nC16
99	21.715	4214	14776	5.247	nC17
100	21.971	1520	8312	1.893	Pristane
118	24.408	3765	13859	4.689	nC18
119	24.712	780	4972	0.972	Phytane
132	26.986	3201	12908	3.986	nC19
145	29.443	2813	10210	3.502	nC20
158	31.795	2467	8387	3.072	nC21
171	34.045	2178	7107	2.713	nC22
182	36.205	1947	6409	2.424	nC23
196	38.280	1796	5824	2.236	nC24
206	40.280	1620	5692	2.018	nC25
216	42.211	1352	4598	1.684	nC26
226	44.067	1274	4582	1.587	nC27
235	45.853	955	3487	1.189	nC28
244	47.587	901	3317	1.122	nC29
252	49.261	584	2437	0.727	nC30
258	50.893	569	2316	0.709	nC31
263	52.483	301	1213	0.375	nC32
269	54.019	307	1591	0.382	nC33
274	55.523	158	1218	0.197	nC34

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Table 7b: N-paraffins in range C15 - C35, for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	Sample
4395.00	cut	Sh/Clst: gy blk to m gy	047-2

Peak nr.	Retention time	Height uV	Area uV	Percent	Identity
60	15.944	4125	13690	4.666	nC15
77	18.872	4265	15524	4.825	nC16
92	21.683	4165	15098	4.711	nC17
93	21.939	1583	9204	1.791	Pristane
109	24.381	3786	14942	4.283	nC18
110	24.696	711	5541	0.804	Phytane
123	26.963	3453	14882	3.905	nC19
136	29.427	3185	12283	3.603	nC20
148	31.784	2712	10600	3.068	nC21
160	34.035	2473	8706	2.797	nC22
170	36.200	2253	8652	2.548	nC23
184	38.280	2061	7836	2.331	nC24
195	40.285	1910	7163	2.161	nC25
206	42.216	1633	5994	1.847	nC26
215	44.403	1591	6667	1.800	nC27
224	45.864	1281	5298	1.449	nC28
234	47.592	1197	4714	1.354	nC29
242	49.267	773	3527	0.875	nC30
248	50.899	646	2950	0.730	nC31
254	52.483	370	1540	0.419	nC32
260	54.024	332	1811	0.375	nC33
265	55.523	177	1341	0.201	nC34

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Table 7b: N-paraffins in range C15 - C35, for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	Sample
4404.00	cut	Sh/Clst: gy blk to m gy	048-2

Peak nr.	Retention time	Height uV	Area uV	Percent	Identity
64	15.939	3005	9641	6.413	nC15
81	18.861	3007	9611	6.417	nC16
96	21.672	2663	8670	5.682	nC17
97	21.939	826	4213	1.762	Pristane
110	24.371	2310	7821	4.929	nC18
111	24.696	300	1705	0.641	Phytane
122	26.952	2044	6816	4.361	nC19
136	29.416	1773	5675	3.783	nC20
146	31.773	1578	5039	3.368	nC21
157	34.029	1410	4472	3.008	nC22
166	36.189	1294	4076	2.762	nC23
178	38.275	1147	3843	2.448	nC24
187	40.280	1032	3896	2.202	nC25
195	42.211	863	2839	1.842	nC26
204	44.072	822	2926	1.754	nC27
212	45.864	615	2193	1.313	nC28
220	47.597	544	1859	1.160	nC29
226	49.277	348	1458	0.743	nC30
231	50.915	304	1147	0.649	nC31
236	52.504	183	701	0.391	nC32
241	54.045	181	970	0.387	nC33
245	55.549	96	671	0.206	nC34
248	57.005	70	305	0.149	nC35

Table 7b: N-paraffins in range C15 - C35, for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	Sample
4413.00	cut	Sh/Clst: gy blk to m gy	049-2

Peak nr.	Retention time	Height uV	Area uV	Percent	Identity
59	15.885	3072	9482	5.834	nC15
75	18.808	3127	10107	5.939	nC16
90	21.629	2999	9925	5.696	nC17
91	21.885	971	5175	1.844	Pristane
106	24.333	2756	9756	5.234	nC18
107	24.653	386	2611	0.734	Phytane
118	26.925	2452	9536	4.657	nC19
131	29.395	2167	7062	4.115	nC20
142	31.752	1853	6067	3.519	nC21
152	34.008	1660	5337	3.153	nC22
161	36.179	1529	4924	2.903	nC23
173	38.264	1362	4380	2.586	nC24
184	40.269	1244	4512	2.362	nC25
193	42.205	1037	3484	1.969	nC26
201	44.067	1001	3445	1.902	nC27
209	45.864	743	2610	1.411	nC28
216	47.592	685	2350	1.300	nC29
222	49.272	432	1802	0.820	nC30
227	50.904	361	1339	0.686	nC31
232	52.493	216	830	0.411	nC32
237	54.029	230	1205	0.436	nC33
242	55.528	124	863	0.235	nC34
246	57.112	31	220	0.060	nC35

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Table 7b: N-paraffins in range C15 - C35, for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	Sample
4422.00	cut	Sh/Clst: gy blk to m gy	050-2

Peak nr.	Retention time	Height uV	Area uV	Percent	Identity
54	15.896	2400	7153	6.343	nC15
69	18.819	2364	7437	6.249	nC16
84	21.640	2267	7062	5.992	nC17
85	21.896	649	3490	1.717	PRISTANE
97	24.344	2003	6559	5.294	nC18
98	24.669	227	1264	0.600	PYTANE
109	26.931	1820	6026	4.810	nC19
122	29.400	1603	5189	4.238	nC20
132	31.763	1443	4478	3.814	nC21
142	34.019	1291	4015	3.413	nC22
151	36.189	1131	3686	2.990	nC23
163	38.275	1020	3235	2.695	nC24
172	40.285	964	3192	2.549	nC25
182	42.221	816	2692	2.158	nC26
191	44.083	780	2654	2.062	nC27
199	45.880	574	1977	1.518	nC28
207	47.619	505	1793	1.334	nC29
214	49.299	316	1323	0.834	nC30
218	50.936	257	1089	0.678	nC31
222	52.531	148	635	0.391	nC32
227	54.072	135	836	0.358	nC33
231	55.571	73	630	0.194	nC34

Table 7b: N-paraffins in range C15 - C35, for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	Sample
4431.00	cut	Sh/Clst: gy blk to m gy	051-2

Peak nr.	Retention time	Height uV	Area uV	Percent	Identity
72	15.880	1302	4320	3.788	nC15
86	18.803	1486	4597	4.238	nC16
100	21.624	1617	5255	4.704	nC17
101	21.901	1165	5963	3.389	PRISTANE
113	24.328	1477	4906	4.299	nC18
114	24.659	649	3337	1.887	PYTANE
126	26.920	1438	5152	4.185	nC19
139	29.389	1379	4580	4.013	nC20
151	31.747	1212	3846	3.527	nC21
163	34.008	1077	3297	3.133	nC22
174	36.173	937	2945	2.725	nC23
185	38.259	760	2462	2.212	nC24
195	40.264	674	2800	1.962	nC25
203	42.200	576	1818	1.676	nC26
211	44.061	510	1846	1.485	nC27
220	45.859	387	1297	1.127	nC28
228	47.587	332	1199	0.966	nC29
234	49.272	224	965	0.652	nC30
239	50.909	190	648	0.552	nC31
243	52.493	126	540	0.366	nC32
248	54.045	127	804	0.369	nC33
252	55.549	93	668	0.272	nC34

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GEOCHEMICAL LABORATORIES OF NORWAY A/S

Table 7b: N-paraffins in range C15 - C35, for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	Sample
4454.26	ccp	S/Sst : lt gy to m gy	015-1

Peak nr.	Retention time	Height uV	Area uV	Percent	Identity
25	15.917	2120	6429	4.871	nC15
42	18.845	2627	8191	6.034	nC16
55	21.667	2747	9100	6.310	nC17
56	21.917	575	3191	1.321	Pristane
69	24.371	2693	9401	6.187	nC18
71	24.685	258	1740	0.592	Phytane
83	26.957	2542	9663	5.839	nC19
96	29.421	2305	7746	5.296	nC20
108	31.779	2029	6719	4.660	nC21
120	34.035	1728	5558	3.970	nC22
131	36.200	1562	5129	3.589	nC23
134	38.285	1286	4393	2.953	nC24
155	40.291	1161	3868	2.666	nC25
165	42.216	997	3285	2.290	nC26
174	44.077	826	2908	1.897	nC27
183	45.875	676	2364	1.553	nC28
191	47.603	598	2022	1.374	nC29
198	49.283	420	1465	0.964	nC30
204	50.920	372	1376	0.854	nC31
208	52.515	278	996	0.640	nC32
214	54.056	271	1559	0.622	nC33
218	55.555	163	1092	0.375	nC34

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Table 7b: N-paraffins in range C15 - C35, for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	Sample
4460.14	ccp	S/Sst : lt gy to brn blk	017-1

Peak nr.	Retention time	Height uV	Area uV	Percent	Identity
21	15.971	1440	4229	3.040	nC15
34	18.904	2383	7395	5.031	nC16
48	21.720	2814	8972	5.941	nC17
49	21.981	702	3719	1.482	Pristane
62	24.419	2773	9812	5.853	nC18
64	24.728	390	2589	0.823	Phytane
76	27.005	2554	9642	5.392	nC19
89	29.469	2433	8914	5.136	nC20
101	31.821	2175	7637	4.592	nC21
113	34.077	2067	6728	4.363	nC22
124	36.248	1847	6349	3.900	nC23
138	38.328	1627	5553	3.435	nC24
150	40.328	1417	5345	2.992	nC25
160	42.259	1238	4045	2.613	nC26
169	44.115	966	3637	2.040	nC27
177	45.912	828	3096	1.748	nC28
185	47.645	711	2479	1.500	nC29
192	49.331	577	2043	1.218	nC30
198	50.963	521	1920	1.099	nC31
204	52.552	427	1505	0.902	nC32
210	54.099	375	1641	0.791	nC33
215	55.592	302	1644	0.638	nC34

Table 7b: N-paraffins in range C15 - C35, for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	Sample
4464.80	ccp	S/Sst : brn to lt gy	018-1

Peak nr.	Retention time	Height uV	Area uV	Percent	Identity
44	15.971	3702	12058	2.887	nC15
61	18.904	4592	16709	3.581	nC16
74	21.725	5058	19055	3.944	nC17
75	21.987	2753	16581	2.147	Pristane
88	24.429	5123	19408	3.995	nC18
102	27.011	4959	25513	3.867	nC19
114	29.485	4825	24476	3.762	nC20
124	31.549	245	2421	0.191	nC21
139	34.093	4384	16297	3.419	nC22
152	36.259	3850	15301	3.002	nC23
166	38.339	3607	14436	2.813	nC24
177	40.339	3062	15619	2.388	nC25
187	42.259	2774	10431	2.163	nC26
195	44.120	2475	9661	1.930	nC27
207	45.912	1983	9136	1.546	nC28
216	47.640	1861	7744	1.451	nC29
225	49.309	1338	6135	1.043	nC30
232	50.947	1130	5729	0.881	nC31
239	52.531	863	3501	0.673	nC32
245	54.067	775	4973	0.605	nC33
250	55.565	560	4968	0.437	nC34

Table 7b: N-paraffins in range C15 - C35, for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	Sample
4480.12	ccp	S/Sst : lt gy	019-1

Peak nr.	Retention time	Height uV	Area uV	Percent	Identity
51	15.848	2234	6752	3.683	nC15
65	18.776	2650	8504	4.371	nC16
78	21.592	2819	9348	4.649	nC17
79	21.859	1357	7341	2.238	Pristane
91	24.301	2792	9521	4.603	nC18
93	24.627	989	5816	1.631	Phytane
105	26.888	2697	12031	4.448	nC19
117	29.363	2668	9725	4.399	nC20
130	31.715	2333	8365	3.847	nC21
144	33.965	2204	7299	3.635	nC22
155	36.136	1897	6892	3.128	nC23
169	38.216	1782	6229	2.938	nC24
179	40.221	1449	5454	2.389	nC25
189	42.147	1345	4492	2.218	nC26
197	44.008	1146	4125	1.890	nC27
207	45.805	970	3681	1.599	nC28
216	47.533	900	3285	1.485	nC29
224	49.213	684	2862	1.128	nC30
230	50.851	562	2202	0.926	nC31
235	52.435	443	1633	0.731	nC32
240	53.976	387	2117	0.639	nC33
245	55.475	268	1923	0.442	nC34

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GEOCHEMICAL LABORATORIES OF NORWAY A/S

Table 7b: N-paraffins in range C15 - C35, for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	Sample
4486.88	ccp	S/Sst : lt gy	020-1

Peak nr.	Retention time	Height uV	Area uV	Percent	Identity
56	15.912	2537	8212	3.353	nC15
71	18.835	3032	10206	4.008	nC16
83	21.651	3215	11119	4.250	nC17
84	21.917	1618	9576	2.138	Pristane
97	24.349	3104	10980	4.103	nC18
99	24.680	1172	7019	1.549	Phytane
111	26.936	3053	13659	4.035	nC19
123	29.400	3043	11228	4.023	nC20
136	31.752	2657	10018	3.512	nC21
150	34.008	2562	8930	3.386	nC22
161	36.173	2357	8856	3.115	nC23
175	38.248	2149	7815	2.840	nC24
186	40.476	1925	7382	2.544	nC25
196	42.179	1705	6084	2.254	nC26
204	44.040	1539	5766	2.035	nC27
215	45.832	1223	5065	1.616	nC28
224	47.555	1099	4325	1.452	nC29
232	49.235	810	3703	1.070	nC30
238	50.867	639	2793	0.845	nC31
244	52.451	473	1902	0.625	nC32
249	53.992	411	2151	0.543	nC33
254	55.491	284	2288	0.376	nC34

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Table 7b: N-paraffins in range C15 - C35, for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	Sample
4515.84	ccp	S/Sst : lt gy	021-1

Peak nr.	Retention time	Height uV	Area uV	Percent	Identity
59	15.917	2861	8832	4.225	nC15
73	18.840	3307	10274	4.882	nC16
86	21.656	3275	10804	4.836	nC17
87	21.923	1548	7732	2.286	Pristane
99	24.360	3127	10343	4.618	nC18
101	24.685	1079	5560	1.593	Phytane
113	26.941	2996	10767	4.423	nC19
125	29.411	2884	10600	4.258	nC20
137	31.768	2633	9126	3.888	nC21
151	34.019	2473	8145	3.652	nC22
163	36.189	2244	7536	3.314	nC23
177	38.269	2063	7167	3.046	nC24
188	40.275	1694	5999	2.501	nC25
198	42.205	1598	5322	2.360	nC26
206	44.067	1350	4781	1.994	nC27
215	45.859	1144	4087	1.690	nC28
224	47.592	1023	3662	1.511	nC29
231	49.272	767	3236	1.132	nC30
237	50.904	605	2477	0.893	nC31
242	52.488	454	1736	0.670	nC32
248	54.035	387	2050	0.572	nC33
253	55.539	265	2140	0.391	nC34
259	56.984	165	783	0.244	nC35

Table 7b: N-paraffins in range C15 - C35, for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	Sample
4518.62	ccp	S/Sst : m lt gy	022-1

Peak nr.	Retention time	Height uV	Area uV	Percent	Identity
62	15.171	2674	8233	4.325	nC15
77	18.061	2973	9334	4.807	nC16
90	20.861	3055	9751	4.940	nC17
91	21.128	1339	6763	2.165	Pristane
103	23.555	2836	9295	4.587	nC18
105	23.880	912	4666	1.474	Phytane
116	26.136	2636	10374	4.263	nC19
129	28.600	2615	8669	4.229	nC20
142	30.957	2304	7907	3.726	nC21
154	33.208	2170	6953	3.509	nC22
166	35.368	1951	6725	3.156	nC23
180	37.453	1811	5933	2.929	nC24
191	39.453	1554	5779	2.512	nC25
200	41.384	1359	4627	2.198	nC26
208	43.245	1222	4430	1.976	nC27
218	45.048	949	3263	1.535	nC28
227	46.787	870	3547	1.407	nC29
234	48.467	657	2722	1.063	nC30
240	50.099	520	2090	0.841	nC31
245	51.683	402	1647	0.651	nC32
250	53.224	328	1791	0.531	nC33
255	54.728	238	1768	0.386	nC34
257	56.184	168	1027	0.271	nC35

Table 7b: N-paraffins in range C15 - C35, for well NOCS 6906/12-6

Depth unit of measure: m

Depth	Typ	Lithology	Sample
4553.55	ccp	S/Sst : m lt gy	023-1

Peak nr.	Retention time	Height uV	Area uV	Percent	Identity
56	15.912	2972	9416	2.993	nC15
72	18.845	3725	12116	3.751	nC16
86	21.672	4233	14496	4.262	nC17
87	21.933	2073	10355	2.088	Pristane
100	24.381	4429	15468	4.460	nC18
102	24.701	1491	7721	1.501	Phytane
114	26.968	4549	19247	4.581	nC19
126	29.443	4584	18389	4.616	nC20
137	31.800	4140	15728	4.169	nC21
151	34.051	4078	14572	4.107	nC22
163	36.221	3790	13745	3.817	nC23
177	38.301	3427	13031	3.451	nC24
189	40.307	2992	11500	3.013	nC25
200	42.237	2808	9683	2.282	nC26
208	44.093	2375	8790	2.391	nC27
219	45.885	1987	7670	2.001	nC28
228	47.613	1801	6671	1.813	nC29
238	49.293	1284	5302	1.293	nC30
244	50.925	1044	4009	1.052	nC31
251	52.509	794	2766	0.799	nC32
258	54.051	695	3375	0.700	nC33
263	55.555	461	3671	0.464	nC34

Table 7b: N-paraffins in range C15 - C35, for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	Sample
4592.00	oil	Dst-1	055-0

Peak nr.	Retention time	Height uV	Area uV	Percent	Identity
112	20.797	3320	10931	4.381	nC15
128	23.779	3132	10143	4.133	nC16
142	26.627	2896	9655	3.821	nC17
143	26.893	1303	6631	1.719	Pristane
155	29.341	2618	8451	3.455	nC18
157	29.672	798	4168	1.053	Phytane
168	31.928	2462	9350	3.248	nC19
180	34.397	2218	7447	2.927	nC20
193	36.755	1953	6462	2.577	nC21
206	39.011	1820	5721	2.401	nC22
216	41.176	1586	5316	2.093	nC23
229	43.261	1481	4965	1.955	nC24
240	45.267	1218	4783	1.607	nC25
248	47.192	1051	3358	1.387	nC26
256	49.059	870	3231	1.148	nC27
264	50.845	671	2501	0.886	nC28
273	52.579	585	2064	0.771	nC29
280	54.264	392	1642	0.517	nC30
285	55.901	298	1094	0.393	nC31
290	57.491	221	791	0.292	nC32
295	59.037	197	1156	0.261	nC33
299	60.541	134	1288	0.176	nC34
304	62.136	78	654	0.103	nC35

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Table 7b: N-paraffins in range C15 - C35, for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	Sample
4606.43	ccp	S/Sst : m lt gy	024-1

Peak nr.	Retention time	Height uV	Area uV	Percent	Identity
60	15.928	3124	9962	3.373	nC15
75	18.856	3674	12550	3.966	nC16
89	21.677	3851	13734	4.158	nC17
90	21.944	1960	11689	2.116	Pristane
103	24.381	3909	13634	4.221	nC18
105	24.707	1468	8770	1.585	Phytane
118	26.968	3618	14364	3.906	nC19
130	29.437	3617	13928	3.905	nC20
143	31.795	3189	12670	3.443	nC21
157	34.051	3111	10840	3.359	nC22
170	36.216	2803	10118	3.026	nC23
184	38.296	2549	9264	2.752	nC24
196	40.301	2178	8647	2.352	nC25
206	42.232	1951	7142	2.107	nC26
214	44.093	1701	6480	1.837	nC27
225	45.885	1412	5430	1.524	nC28
234	47.613	1207	4723	1.304	nC29
243	49.293	918	3818	0.992	nC30
248	50.925	702	3015	0.758	nC31
254	52.509	519	1881	0.560	nC32
259	54.051	443	2279	0.479	nC33
264	55.560	315	2613	0.340	nC34
270	57.144	161	1343	0.174	nC35

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GEOCHEMICAL LABORATORIES OF NORWAY A/S

Table 7b: N-paraffins in range C15 - C35, for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	Sample
4728.00	cut	Sh/Clst: gy blk to brn blk	052-3

Peak nr.	Retention time	Height uV	Area uV	Percent	Identity
25	15.864	627	1866	5.195	nC15
36	18.787	715	2146	5.976	nC16
46	21.603	676	2056	5.724	nC17
47	21.864	211	1092	3.039	PRISTANE
54	24.307	629	2064	5.746	nC18
55	24.643	139	859	2.392	PYTANE
63	26.899	553	1924	5.357	nC19
73	29.373	517	1718	4.783	nC20
82	31.731	469	1504	4.188	nC21
89	33.992	424	1351	3.761	nC22
96	36.157	373	1187	3.305	nC23
102	38.243	328	1018	2.833	nC24
107	40.243	278	944	2.628	nC25
112	42.179	220	714	1.988	nC26
117	44.040	190	607	1.690	nC27
121	45.832	136	435	1.212	nC28
123	47.571	119	393	1.094	nC29
124	49.251	74	244	0.679	nC30
125	50.883	66	226	0.630	nC31
126	52.477	43	169	0.472	nC32
127	54.013	35	143	0.397	nC33
128	55.517	20	111	0.309	nC34
129	56.979	10	30	0.083	nC35

Table 7b: N-paraffins in range C15 - C35, for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	Sample
4737.00	cut	Coal	053-6

Peak nr.	Retention time	Height uV	Area uV	Percent	Identity
35	15.896	787	2338	8.527	nC15
47	18.813	778	2400	8.479	nC16
57	21.629	689	2264	7.502	nC17
58	21.907	153	899	1.663	PRISTANE
66	24.333	578	2078	6.297	nC18
67	24.669	66	465	0.717	PHYTANE
74	26.920	478	1647	5.206	nC19
83	29.384	369	1261	4.021	nC20
89	31.747	302	980	3.294	nC21
94	33.997	260	798	2.837	nC22
98	36.168	216	655	2.359	nC23
100	38.253	171	516	1.860	nC24
102	40.259	141	533	1.538	nC25
106	42.195	105	339	1.143	nC26
109	44.056	96	306	1.049	nC27
111	45.853	69	230	0.748	nC28
114	47.587	75	260	0.821	nC29
115	49.272	38	163	0.416	nC30
117	50.904	57	275	0.623	nC31
118	52.499	21	107	0.229	nC32
119	54.040	25	106	0.270	nC33

Table 8 : Aromatic Hydrocarbon Ratios for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	MNR	DMNR	BPhR	2/1MP	MPI1	MPI2	DBT/P	4/1MDBT	(3+2)/1MDBT	Sample
4029.00	cut	Sh/Clst: brn blk	-	0.52	-	0.64	0.63	0.61	0.57	17.04	1.70	025-1
4041.00	cut	Sh/Clst: brn blk	0.87	1.41	0.27	0.59	0.59	0.58	0.65	16.41	2.11	026-1
4050.00	cut	Sh/Clst: brn blk	1.18	0.78	0.28	0.64	0.81	0.79	1.85	9.06	2.53	027-1
4184.30	ccp	Sh/Clst: brn blk	1.33	1.08	0.31	1.02	0.61	0.65	0.08	11.53	7.45	001-1
4199.35	ccp	Sh/Clst: brn blk	0.81	1.65	0.27	1.09	0.64	0.70	0.07	16.12	9.91	002-1
4235.60	ccp	S/Sst : lt gy	-	0.80	0.10	0.84	0.73	0.77	0.17	18.65	2.98	003-1
4240.70	ccp	S/Sst : lt gy	0.61	1.65	0.11	0.90	0.75	0.79	0.34	18.54	3.01	004-1
4246.62	ccp	S/Sst : lt gy	0.80	1.83	0.14	0.91	0.77	0.81	0.36	20.56	3.61	005-1
4250.60	ccp	S/Sst : lt gy	0.81	1.85	0.15	0.88	0.72	0.78	0.31	23.88	4.32	006-1
4259.64	ccp	S/Sst : lt gy	0.63	1.85	0.12	0.91	0.77	0.81	0.35	21.69	3.79	007-1
4317.78	ccp	bulk	0.89	1.95	0.18	0.88	0.69	0.73	0.32	16.88	3.72	008-0
4322.11	ccp	S/Sst : lt gy	-	0.76	-	0.90	0.78	0.79	0.38	13.94	2.75	009-1
4327.18	ccp	S/Sst : lt gy to m gy	0.60	1.56	0.08	0.91	0.77	0.81	0.43	17.22	3.51	010-1
4332.63	ccp	S/Sst : lt gy to m gy	-	3.20	-	0.92	0.81	0.84	0.44	13.79	2.78	011-1
4339.63	ccp	S/Sst : lt gy to m gy	0.87	1.88	0.17	0.90	0.75	0.78	0.39	15.41	3.03	012-1

Table 8 : Aromatic Hydrocarbon Ratios for well NCCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	MNR	DMNR	BPhR	2/1MP	MPI1	MPI2	DBT/P	4/1MDBT	(3+2)/1MDBT	Sample
4343.18	ccp	S/Sst : lt gy to m gy	1.16	1.89	0.20	0.89	0.77	0.80	0.41	16.44	3.33	013-1
4352.00	oil	bulk	1.30	2.35	0.30	0.93	0.76	0.77	0.48	15.31	2.81	054-0
4355.12	ccp	S/Sst : lt gy to m gy	1.18	2.30	0.21	0.91	0.75	0.80	0.34	26.87	5.13	016-1
4367.00	ccp	S/Sst : lt gy	-	0.71	-	0.90	0.81	0.86	0.42	19.46	4.93	014-1
4386.00	cut	Sh/Clst: gy blk to m gy	-	2.05	0.18	0.81	0.60	0.61	0.14	15.21	3.03	046-2
4395.00	cut	Sh/Clst: gy blk to m gy	0.66	1.71	0.09	0.85	0.61	0.63	0.12	12.74	3.47	047-2
4404.00	cut	Sh/Clst: gy blk to m gy	0.81	1.74	0.11	0.82	0.61	0.63	0.13	12.35	3.51	048-2
4413.00	cut	Sh/Clst: gy blk to m gy	1.10	1.02	0.15	0.83	0.61	0.64	0.12	15.89	5.46	049-2
4422.00	cut	Sh/Clst: gy blk to m gy	0.99	1.98	0.14	0.83	0.61	0.64	0.12	11.71	4.08	050-2
4431.00	cut	Sh/Clst: gy blk to m gy	0.95	1.92	0.09	0.77	0.60	0.64	0.09	33.90	4.05	051-2
4454.26	ccp	S/Sst : lt gy to m gy	-	-	-	0.98	0.79	0.88	0.14	29.58	7.28	015-1
4460.14	ccp	S/Sst : lt gy to brn blk	-	0.88	-	0.99	0.75	0.83	0.26	22.10	7.21	017-1
4464.80	ccp	S/Sst : brn to lt gy	-	1.72	-	0.94	0.81	0.86	0.38	22.11	7.72	018-1
4480.12	ccp	S/Sst : lt gy	1.21	2.51	0.17	0.97	0.81	0.86	0.35	22.80	7.87	019-1
4486.88	ccp	S/Sst : lt gy	1.20	1.27	0.18	0.94	0.81	0.87	0.41	22.79	7.41	020-1

Table 8 : Aromatic Hydrocarbon Ratios for well NOCS 6506/12-6

Depth unit of measure: m

Depth	Typ	Lithology	MNR	DMNR	BPhR	2/1MP	MPI1	MPI2	DBT/P	4/1MDBT	(3+2)/1MDBT	Sample
4515.84	ccp	S/Sst : lt gy	1.05	1.15	0.20	0.90	0.77	0.81	0.41	24.23	5.53	021-1
4518.62	ccp	S/Sst : m lt gy	1.11	2.47	0.20	0.95	0.81	0.86	0.38	32.29	8.85	022-1
4553.55	ccp	S/Sst : m lt gy	1.53	2.53	0.25	0.94	0.78	0.85	0.23	30.29	7.46	023-1
4592.00	oil	bulk	1.61	1.60	0.09	1.03	0.83	0.88	0.36	48.50	13.14	055-0
4606.43	ccp	S/Sst : m lt gy	1.27	1.31	0.15	0.90	0.78	0.82	0.29	23.31	9.28	024-1
4728.00	cut	Sh/Clst: gy blk to brn blk	-	0.87	0.09	1.04	0.70	0.75	0.13	22.16	3.78	052-3
4737.00	cut	Coal	1.60	1.57	0.21	1.42	0.87	1.00	0.10	49.10	19.52	053-6

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List of aromatic maturity ratios

$$MNR = \frac{\text{2-methyl naphthalene}}{\text{1-methyl naphthalene}}$$

$$DMNR = \frac{\text{2,6 + 2,7-dimethyl naphthalene}}{\text{1,5-dimethyl naphthalene}}$$

$$BPHR = \frac{\text{biphenyl}}{\text{1,6 dimethyl naphthalene}}$$

$$2/1MP = \frac{\text{2-methyl phenanthrene}}{\text{1-methyl phenanthrene}}$$

$$MPI1 = \frac{1.5 * (3 + \text{2-methyl phenanthrene})}{\text{phenanthrene + 9 + 1-methyl phenanthrene}}$$

$$MPI2 = \frac{3.0 * \text{2-methyl phenanthrene}}{\text{phenanthrene + 9 + 1-methyl phenanthrene}}$$

$$DBT/P = \frac{\text{dibenzothiophene}}{\text{phenanthrene}}$$

$$4/1MDBT = \frac{\text{4-methyl dibenzothiophene}}{\text{1-methyl dibenzothiophene}}$$

$$(3+2)/1MDBT = \frac{\text{3 + 2-methyl dibenzothiophene}}{\text{1-methyl dibenzothiophene}}$$

Table 9 : Separation of fraction boiling above 210 C and density of oils for well NOCS 6506/12-6.

Carbon group	Boiling point	DST-1 (4592 m) Weight %	DST-3 (4352 m) Weight %
C1 - C10		25.69	45.75
C11	196	2.89	5.17
C12	216	2.54	4.13
C13	235	2.84	3.67
C14	253	2.18	3.07
C15	271	2.15	2.81
C16	287	1.67	1.84
C17	302	1.60	1.75
C18	317	1.80	1.89
C19	331	1.61	1.59
C20	344	1.21	0.95
C21	356	1.06	0.83
C22	369	0.98	0.72
C23	380	0.90	0.63
C24	391	0.81	0.68
C25	402	0.72	0.43
C26	412	0.64	0.42
C27	422	0.71	0.26
C28	432	0.44	0.27
C29	441	0.51	0.25
C30	450	0.48	0.24
C30+		46.54	22.65
C15+		63.86	38.21
Density at 15 C		826.9 kg/m3	789.8 kg/m3

Table 10 : Quantification of compounds from C2 - C8.

Compound	DST-3 (4352 m)	DST-1 (4592 m)
Etane (C2)	0.0181 %	0.0157 %
Propane (C3)	0.7496 %	0.6612 %
Butane (C4)	4.0110 %	3.4760 %
Pentane (C5)	6.8630 %	5.9650 %
Hexane (C6)	7.4300 %	7.0740 %
Heptane (C7)	7.3200 %	7.4870 %
Octane (C8)	6.9930 %	7.4260 %

Percentage of C2 - C8 calculated as persentage of total area.

Table 10b : Quantification of compounds from whole oil. Page: 1

DST-3 (4352 m)

Compound	Hight uV	Area uV	Percent
IC4	10803	44180	0.478
NC4	40667	171412	1.853
NC5	60917	293318	3.171
2,2 DMC4	6123	55283	0.598
Hexane	60615	317377	3.431
MSC5	28925	179087	1.936
Benzene	21200	130496	1.411
Cyclohexane	41567	254602	2.752
2MC6	17858	98762	1.068
2,3 DMC5	5466	30909	0.334
2MC6 + 2,3 DMC5	23324	129671	1.402
3MC6	22069	129819	1.403
1T3DMC5	6066	37415	0.404
1C3DMC5	6598	44740	0.484
1T2DMC5	10650	63806	0.690
NC7	55011	312855	3.382
MSC6	67662	447366	4.836
Toluene	50044	344460	3.723

Table 10b : Quantification of compounds from whole oil. Page: 2

DST-1 (4592 m)

Compound	Hight uV	Area uV	Percent
IC4	4917	20001	0.313
NC4	20044	84363	1.318
NC5	30642	144758	2.262
2,2 DMC4	3334	19297	0.302
Hexane	33075	171666	2.682
MSC5	18056	110652	1.729
Benzene	9492	59564	0.931
Cyclohexane	28261	169217	2.644
2MC6	9312	50927	0.796
2,3 DMC5	2666	15076	0.236
2MC6 + 2,3 DMC5	13937	66003	1.032
3MC6	11271	66930	1.046
1T3DMC5	3395	20375	0.318
1C3DMC5	3536	23343	0.365
1T2DMC5	5510	33006	0.516
NC7	32251	180772	2.825
MSC6	47603	310015	4.844
Toluene	31321	214836	3.357

TABLE NO. 11.

WELL 6506/12-6.

MOLECULAR RATIOS CALCULATED FROM TERPANE AND STERANE MASSCHROMATOGRAMS.
MATURITY RATIOS AND SOURCE CHARACTERISTIC.

DEPTH	%ααα 20S	%αββ 20S	Tm/Ts	C/C+E
4029	52.38	79.61	0.28	0.29
4041	58.06	75.59	0.23	0.34
4050	66.67	78.87	0.25	0.34
4184.30	48.00	66.67	3.23	0.39
4199.35	58.62	78.83	4.33	0.35
4235.60	61.11	80.43	0.41	0.37
4240.70	64.71	77.92	0.53	0.36
4246.62	63.16	68.04	0.50	0.38
4250.60	58.33	76.92	0.47	0.36
4259.64	57.14	75.62	0.47	0.36
4317.78	56.10	74.53	0.50	0.34
4322.11	57.14	75.86	0.53	0.38
4327.18	57.14	76.67	0.54	0.39
4332.63	58.33	73.91	0.50	0.35
4339.63	57.89	77.11	0.53	0.36
4343.18	55.00	74.36	0.51	0.35
4355.12	56.52	74.73	0.46	0.38
4367.00	58.82	77.92	0.46	0.37
4386	57.14	74.70	1.41	0.29
4395	53.85	74.51	1.77	0.35
4404	55.00	74.36	1.72	0.27
4413	55.56	73.37	2.12	0.31

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TABLE NO. 11.

WELL 6506/12-6.

MOLECULAR RATIOS CALCULATED FROM TERPANE AND STERANE MASSCHROMATOGRAMS.
MATURITY RATIOS AND SOURCE CHARACTERISTIC.

DEPTH	%ααα 20S	%αββ 20S	Tm/Ts	C/C+E
4422	55.00	75.00	2.00	0.32
4431	64.52	78.32	0.72	0.36
4454.26	44.44	62.50	1.07	0.46
4460.14	47.83	63.49	1.33	0.41
4464.80	54.55	77.55	0.57	0.41
4480.12	56.00	76.64	0.56	0.44
4486.88	56.25	76.12	0.55	0.38
4515.84	54.39	76.73	0.59	0.38
4518.62	59.02	76.98	0.49	0.43
4553.55	54.55	76.09	0.46	0.45
4606.43	58.54	76.30	0.51	0.41
4728	55.77	77.97	0.80	0.39
4737	50.91	77.91	1.90	0.83
DST-1 4525 4592	60.00	83.33	0.43	0.50
DST-3 4352	62.50	83.33	0.44	0.36

%ααα 20S: q/q+t in m/z 217.

%αββ 20S: 2(r+s)/(q+t+2(r+s)) in m/z 217. –

Tm/Ts : B/A in m/z 191, 17α-Trisnorhopane/18α-Trisnorneohopane.

C/C+E : Norhopane/Norhopane + Hopane.

Table 12 : Tabulation of carbon isotope data for well NOCS 6506/12-6

Depth unit of measure : m

Depth	Typ	Lithology	EOM	Saturated	Aromatic	NSO	Asphaltenes	Kerogen	Sample
4029.00	cut	Sh/Clst: brn blk	-29.63	-30.56	-29.56	-29.00	-29.74	-29.53	025-1
4041.00	cut	Sh/Clst: brn blk	-30.22	-30.68	-29.55	-29.81	-29.61	-29.11	026-1
4050.00	cut	Sh/Clst: brn blk	-29.59	-30.44	-29.22	-28.86	-28.37	-27.74	027-1
4184.30	ccp	Sh/Clst: brn blk	-25.40	-26.97	-24.31	-25.86	-25.73	-23.56	001-1
4199.35	ccp	Sh/Clst: brn blk	-26.12	-	-	-28.45	-28.45	-23.71	002-1
4235.60	ccp	S/Sst : lt gy	-29.56	-29.69	-28.37	-30.23	-28.97	-28.80	003-1
4240.70	ccp	S/Sst : lt gy	-29.88	-29.64	-28.09	-29.14	-29.11	-30.93	004-1
4246.62	ccp	S/Sst : lt gy	-30.21	-29.47	-28.40	-29.58	-28.62	-28.69	005-1
4250.60	ccp	S/Sst : lt gy	-28.83	-29.51	-27.46	-29.13	-26.53	-25.70	006-1
4259.64	ccp	S/Sst : lt gy	-29.28	-29.60	-28.21	-29.69	-28.08	-29.64	007-1
4317.78	ccp	bulk	-29.08	-29.60	-27.83	-28.79	-26.69	-27.17	008-0
4322.11	ccp	S/Sst : lt gy	-28.84	-29.63	-28.09	-29.06	-27.88	-33.54	009-1
4327.18	ccp	S/Sst : lt gy to m gy	-30.17	-29.59	-28.04	-29.25	-28.35	-27.51	010-1
4332.63	ccp	S/Sst : lt gy to m gy	-29.38	-29.63	-28.33	-29.45	-28.44	-30.35	011-1

Table 12 : Tabulation of carbon isotope data for well NOCS 6506/12-6

Depth unit of measure : m

Depth	Typ	Lithology	EOM	Saturated	Aromatic	NSO	Asphaltenes	Kerogen	Sample
4339.63	ccp	S/Sst : lt gy to m gy	-29.94	-29.70	-30.40	-29.02	-28.32	-27.83	012-1
4343.18	ccp	S/Sst : lt gy to m gy	-29.33	-29.76	-28.33	-29.18	-27.68	-25.91	013-1
4352.00	oil	bulk : DST-3	-	-29.76	-28.10	-28.32	-28.80	-	054-0
4355.12	ccp	S/Sst : lt gy to m gy	-29.06	-29.47	-27.76	-29.16	-27.85	-29.35	016-1
4367.00	ccp	S/Sst : lt gy	-29.27	-29.33	-27.93	-29.09	-28.59	-30.37	014-1
4386.00	cut	Sh/Clst: gy blk to m gy	-27.40	-28.50	-26.39	-27.62	-25.16	-24.74	046-2
4395.00	cut	Sh/Clst: gy blk to m gy	-27.61	-27.75	-25.86	-27.13	-25.34	-24.28	047-2
4404.00	cut	Sh/Clst: gy blk to m gy	-26.88	-27.58	-25.83	-26.79	-25.73	-24.77	048-2
4413.00	cut	Sh/Clst: gy blk to m gy	-26.58	-27.59	-25.53	-27.52	-25.09	-24.56	049-2
4422.00	cut	Sh/Clst: gy blk to m gy	-26.45	-27.43	-25.55	-28.34	-25.16	-24.85	050-2
4431.00	cut	Sh/Clst: gy blk to m gy	-26.86	-30.49	-27.70	-30.19	-25.16	-24.52	051-2
4454.26	ccp	S/Sst : lt gy to m gy	-29.02	-28.87	-27.65	-28.72	-27.89	-29.02	015-1
4460.14	ccp	S/Sst : lt gy to brn blk	-28.11	-29.02	-27.70	-28.82	-28.02	-26.49	017-1
4464.80	ccp	S/Sst : brn to lt gy	-29.02	-29.12	-27.66	-29.02	-28.30	-27.86	018-1
4480.12	ccp	S/Sst : lt gy	-28.81	-29.17	-27.56	-29.36	-28.82	-28.27	019-1

Table 12 : Tabulation of carbon isotope data for well NOCS 6506/12-6

Depth unit of measure : m

Depth	Typ	Lithology	EOM	Saturated	Aromatic	NSO	Asphaltenes	Kerogen	Sample
4486.88	ccp	S/Sst : lt gy	-28.85	-29.24	-27.69	-29.01	-28.63	-28.66	020-1
4515.84	ccp	S/Sst : lt gy	-29.13	-29.29	-27.77	-29.19	-28.00	-28.07	021-1
4518.62	ccp	S/Sst : m lt gy	-28.94	-29.20	-27.53	-28.74	-28.98	-28.35	022-1
4553.55	ccp	S/Sst : m lt gy	-28.68	-29.17	-27.13	-28.08	-26.25	-26.76	023-1
4592.00	oil	bulk : DST-1	-	-29.30	-27.67	-27.94	-27.71	-	055-0
4606.43	ccp	S/Sst : m lt gy	-28.83	-29.14	-27.37	-29.21	-27.70	-27.07	024-1
4728.00	cut	Sh/Clst:gy blk to brn blk	-27.97	-29.38	-26.88	-28.01	-26.02	-25.25	052-3
4737.00	cut	Coal	-26.23	-27.95	-	-26.31	-25.29	-25.43	053-6

Table 13: Steranes from GCMS for well NOCS 6506/12-6 Page: 1

Type	Sample	Depth	Area	Height	Peak I.D.
cut	025-1	4029.00	154	21	U
cut	025-1	4029.00	32	6	V
cut	025-1	4029.00	127	23	A
cut	025-1	4029.00	75	13	B
cut	025-1	4029.00	29	5	C
cut	025-1	4029.00	46	9	D
cut	025-1	4029.00	46	8	E
cut	025-1	4029.00	74	7	F
cut	025-1	4029.00	37	5	G
cut	025-1	4029.00	119	22	H
cut	025-1	4029.00	20	5	I
cut	025-1	4029.00	13	3	J
cut	025-1	4029.00	86	12	K
cut	025-1	4029.00	38	4	L
cut	025-1	4029.00	0	0	M
cut	025-1	4029.00	50	6	N
cut	025-1	4029.00	33	5	O
cut	025-1	4029.00	9	2	P
cut	025-1	4029.00	24	3	Q
cut	025-1	4029.00	31	5	R
cut	025-1	4029.00	52	6	S
cut	025-1	4029.00	18	3	T
cut	026-1	4041.00	240	32	U
cut	026-1	4041.00	68	11	V
cut	026-1	4041.00	256	45	A
cut	026-1	4041.00	149	26	B
cut	026-1	4041.00	58	10	C
cut	026-1	4041.00	99	18	D
cut	026-1	4041.00	103	18	E
cut	026-1	4041.00	98	13	F
cut	026-1	4041.00	80	9	G
cut	026-1	4041.00	220	35	H
cut	026-1	4041.00	64	11	I
cut	026-1	4041.00	3	1	J
cut	026-1	4041.00	71	14	K
cut	026-1	4041.00	65	8	L
cut	026-1	4041.00	0	0	M
cut	026-1	4041.00	75	9	N
cut	026-1	4041.00	59	7	O
cut	026-1	4041.00	18	2	P
cut	026-1	4041.00	31	5	Q
cut	026-1	4041.00	45	6	R
cut	026-1	4041.00	53	7	S
cut	026-1	4041.00	15	2	T

Table 13: Steranes from GCMS for well NOCS 6506/12-6

Type	Sample	Depth	Area	Height	Peak I.D.
cut	027-1	4050.00	350	46	U
cut	027-1	4050.00	103	18	V
cut	027-1	4050.00	282	47	A
cut	027-1	4050.00	167	29	B
cut	027-1	4050.00	60	10	C
cut	027-1	4050.00	141	23	D
cut	027-1	4050.00	134	23	E
cut	027-1	4050.00	135	17	F
cut	027-1	4050.00	113	13	G
cut	027-1	4050.00	297	45	H
cut	027-1	4050.00	86	14	I
cut	027-1	4050.00	12	4	J
cut	027-1	4050.00	184	26	K
cut	027-1	4050.00	91	10	L
cut	027-1	4050.00	0	0	M
cut	027-1	4050.00	85	11	N
cut	027-1	4050.00	43	6	O
cut	027-1	4050.00	22	3	P
cut	027-1	4050.00	40	6	Q
cut	027-1	4050.00	57	8	R
cut	027-1	4050.00	73	9	S
cut	027-1	4050.00	18	2	T
ccp	001-1	4184.30	14	2	U
ccp	001-1	4184.30	3	1	V
ccp	001-1	4184.30	4	1	A
ccp	001-1	4184.30	3	1	B
ccp	001-1	4184.30	2	0	C
ccp	001-1	4184.30	4	1	D
ccp	001-1	4184.30	5	1	E
ccp	001-1	4184.30	5	1	F
ccp	001-1	4184.30	8	1	G
ccp	001-1	4184.30	12	2	H
ccp	001-1	4184.30	4	1	I
ccp	001-1	4184.30	4	1	J
ccp	001-1	4184.30	5	1	K
ccp	001-1	4184.30	0	0	L
ccp	001-1	4184.30	0	0	M
ccp	001-1	4184.30	6	1	N
ccp	001-1	4184.30	3	1	O
ccp	001-1	4184.30	5	1	P
ccp	001-1	4184.30	8	1	Q
ccp	001-1	4184.30	5	1	R
ccp	001-1	4184.30	8	1	S
ccp	001-1	4184.30	7	1	T

Table 13: Steranes from GCMS for well NOCS 6506/12-6

Type	Sample	Depth	Area	Height	Peak I.D.
ccp	004-1	4240.70	707	93	U
ccp	004-1	4240.70	233	38	V
ccp	004-1	4240.70	994	169	A
ccp	004-1	4240.70	635	100	B
ccp	004-1	4240.70	165	31	C
ccp	004-1	4240.70	336	62	D
ccp	004-1	4240.70	384	66	E
ccp	004-1	4240.70	630	60	F
ccp	004-1	4240.70	287	30	G
ccp	004-1	4240.70	1030	166	H
ccp	004-1	4240.70	412	68	I
ccp	004-1	4240.70	7	3	J
ccp	004-1	4240.70	554	88	K
ccp	004-1	4240.70	350	39	L
ccp	004-1	4240.70	0	0	M
ccp	004-1	4240.70	316	36	N
ccp	004-1	4240.70	344	44	O
ccp	004-1	4240.70	93	13	P
ccp	004-1	4240.70	121	19	Q
ccp	004-1	4240.70	60	12	R
ccp	004-1	4240.70	70	15	S
ccp	004-1	4240.70	64	10	T
ccp	005-1	4246.62	1308	190	U
ccp	005-1	4246.62	310	62	V
ccp	005-1	4246.62	1852	340	A
ccp	005-1	4246.62	1226	202	B
ccp	005-1	4246.62	430	80	C
ccp	005-1	4246.62	268	69	D
ccp	005-1	4246.62	517	113	E
ccp	005-1	4246.62	1287	122	F
ccp	005-1	4246.62	626	73	G
ccp	005-1	4246.62	1650	296	H
ccp	005-1	4246.62	559	101	I
ccp	005-1	4246.62	45	13	J
ccp	005-1	4246.62	719	145	K
ccp	005-1	4246.62	652	71	L
ccp	005-1	4246.62	0	0	M
ccp	005-1	4246.62	518	65	N
ccp	005-1	4246.62	435	69	O
ccp	005-1	4246.62	164	23	P
ccp	005-1	4246.62	376	50	Q
ccp	005-1	4246.62	497	69	R
ccp	005-1	4246.62	551	76	S
ccp	005-1	4246.62	162	26	T

Table 13: Steranes from GCMS for well NOCS 6506/12-6

Type	Sample	Depth	Area	Height	Peak I.D.
ccp	006-1	4250.60	881	131	U
ccp	006-1	4250.60	240	48	V
ccp	006-1	4250.60	1513	283	A
ccp	006-1	4250.60	1002	166	B
ccp	006-1	4250.60	265	56	C
ccp	006-1	4250.60	585	114	D
ccp	006-1	4250.60	752	129	E
ccp	006-1	4250.60	1070	104	F
ccp	006-1	4250.60	560	68	G
ccp	006-1	4250.60	487	87	H
ccp	006-1	4250.60	206	37	I
ccp	006-1	4250.60	63	17	J
ccp	006-1	4250.60	928	158	K
ccp	006-1	4250.60	575	62	L
ccp	006-1	4250.60	0	0	M
ccp	006-1	4250.60	433	58	N
ccp	006-1	4250.60	420	65	O
ccp	006-1	4250.60	178	24	P
ccp	006-1	4250.60	402	53	Q
ccp	006-1	4250.60	492	69	R
ccp	006-1	4250.60	551	75	S
ccp	006-1	4250.60	198	30	T
ccp	007-1	4259.64	816	121	U
ccp	007-1	4259.64	163	37	V
ccp	007-1	4259.64	1265	231	A
ccp	007-1	4259.64	843	139	B
ccp	007-1	4259.64	304	59	C
ccp	007-1	4259.64	521	102	D
ccp	007-1	4259.64	595	110	E
ccp	007-1	4259.64	956	92	F
ccp	007-1	4259.64	374	47	G
ccp	007-1	4259.64	1024	190	H
ccp	007-1	4259.64	202	46	I
ccp	007-1	4259.64	151	29	J
ccp	007-1	4259.64	882	145	K
ccp	007-1	4259.64	556	58	L
ccp	007-1	4259.64	0	0	M
ccp	007-1	4259.64	465	58	N
ccp	007-1	4259.64	569	62	O
ccp	007-1	4259.64	140	20	P
ccp	007-1	4259.64	269	42	Q
ccp	007-1	4259.64	122	24	R
ccp	007-1	4259.64	119	26	S
ccp	007-1	4259.64	152	24	T

Table 13: Steranes from GCMS for well NOCS 6506/12-6

Type	Sample	Depth	Area	Height	Peak I.D.
ccp	008-0	4317.78	2718	353	U
ccp	008-0	4317.78	623	112	V
ccp	008-0	4317.78	3610	597	A
ccp	008-0	4317.78	2167	341	B
ccp	008-0	4317.78	646	126	C
ccp	008-0	4317.78	1326	242	D
ccp	008-0	4317.78	1467	259	E
ccp	008-0	4317.78	2185	205	F
ccp	008-0	4317.78	1272	132	G
ccp	008-0	4317.78	2688	453	H
ccp	008-0	4317.78	812	153	I
ccp	008-0	4317.78	44	16	J
ccp	008-0	4317.78	1320	226	K
ccp	008-0	4317.78	1121	125	L
ccp	008-0	4317.78	0	0	M
ccp	008-0	4317.78	658	78	N
ccp	008-0	4317.78	693	108	O
ccp	008-0	4317.78	334	50	P
ccp	008-0	4317.78	708	93	Q
ccp	008-0	4317.78	909	118	R
ccp	008-0	4317.78	895	126	S
ccp	008-0	4317.78	393	58	T
ccp	009-1	4322.11	1077	156	U
ccp	009-1	4322.11	278	54	V
ccp	009-1	4322.11	1482	261	A
ccp	009-1	4322.11	953	154	B
ccp	009-1	4322.11	335	64	C
ccp	009-1	4322.11	645	109	D
ccp	009-1	4322.11	621	117	E
ccp	009-1	4322.11	983	94	F
ccp	009-1	4322.11	548	61	G
ccp	009-1	4322.11	1296	227	H
ccp	009-1	4322.11	476	83	I
ccp	009-1	4322.11	161	33	J
ccp	009-1	4322.11	947	146	K
ccp	009-1	4322.11	509	56	L
ccp	009-1	4322.11	0	0	M
ccp	009-1	4322.11	376	48	N
ccp	009-1	4322.11	307	49	O
ccp	009-1	4322.11	163	22	P
ccp	009-1	4322.11	334	44	Q
ccp	009-1	4322.11	408	55	R
ccp	009-1	4322.11	433	62	S
ccp	009-1	4322.11	156	24	T

Table 13: Steranes from GCMS for well NOCS 6506/12-6

Type	Sample	Depth	Area	Height	Peak I.D.
ccp	010-1	4327.18	1535	215	U
ccp	010-1	4327.18	340	70	V
ccp	010-1	4327.18	1960	343	A
ccp	010-1	4327.18	1265	207	B
ccp	010-1	4327.18	161	28	C
ccp	010-1	4327.18	396	93	D
ccp	010-1	4327.18	779	147	E
ccp	010-1	4327.18	1298	124	F
ccp	010-1	4327.18	736	78	G
ccp	010-1	4327.18	1716	293	H
ccp	010-1	4327.18	565	99	I
ccp	010-1	4327.18	101	25	J
ccp	010-1	4327.18	1155	181	K
ccp	010-1	4327.18	677	75	L
ccp	010-1	4327.18	0	0	M
ccp	010-1	4327.18	600	69	N
ccp	010-1	4327.18	686	83	O
ccp	010-1	4327.18	190	26	P
ccp	010-1	4327.18	392	51	Q
ccp	010-1	4327.18	564	73	R
ccp	010-1	4327.18	565	81	S
ccp	010-1	4327.18	186	27	T
ccp	011-1	4332.63	441	72	U
ccp	011-1	4332.63	125	26	V
ccp	011-1	4332.63	741	139	A
ccp	011-1	4332.63	488	82	B
ccp	011-1	4332.63	159	32	C
ccp	011-1	4332.63	301	58	D
ccp	011-1	4332.63	322	61	E
ccp	011-1	4332.63	512	49	F
ccp	011-1	4332.63	209	28	G
ccp	011-1	4332.63	604	113	H
ccp	011-1	4332.63	161	33	I
ccp	011-1	4332.63	109	20	J
ccp	011-1	4332.63	499	78	K
ccp	011-1	4332.63	261	29	L
ccp	011-1	4332.63	0	0	M
ccp	011-1	4332.63	253	31	N
ccp	011-1	4332.63	273	33	O
ccp	011-1	4332.63	17	8	P
ccp	011-1	4332.63	184	25	Q
ccp	011-1	4332.63	219	30	R
ccp	011-1	4332.63	241	34	S
ccp	011-1	4332.63	107	16	T

Table 13: Steranes from GCMS for well NOCS 6506/12-6

Type	Sample	Depth	Area	Height	Peak I.D.
ccp	012-1	4339.63	1163	169	U
ccp	012-1	4339.63	269	53	V
ccp	012-1	4339.63	1650	297	A
ccp	012-1	4339.63	1083	177	B
ccp	012-1	4339.63	368	70	C
ccp	012-1	4339.63	665	124	D
ccp	012-1	4339.63	736	137	E
ccp	012-1	4339.63	1143	109	F
ccp	012-1	4339.63	663	72	G
ccp	012-1	4339.63	1607	273	H
ccp	012-1	4339.63	563	95	I
ccp	012-1	4339.63	225	40	J
ccp	012-1	4339.63	1147	172	K
ccp	012-1	4339.63	583	64	L
ccp	012-1	4339.63	0	0	M
ccp	012-1	4339.63	417	54	N
ccp	012-1	4339.63	353	51	O
ccp	012-1	4339.63	125	18	P
ccp	012-1	4339.63	313	41	Q
ccp	012-1	4339.63	145	28	R
ccp	012-1	4339.63	124	28	S
ccp	012-1	4339.63	106	21	T
ccp	013-1	4343.18	765	111	U
ccp	013-1	4343.18	192	38	V
ccp	013-1	4343.18	1005	183	A
ccp	013-1	4343.18	647	108	B
ccp	013-1	4343.18	237	44	C
ccp	013-1	4343.18	426	73	D
ccp	013-1	4343.18	407	77	E
ccp	013-1	4343.18	666	63	F
ccp	013-1	4343.18	389	43	G
ccp	013-1	4343.18	891	154	H
ccp	013-1	4343.18	305	56	I
ccp	013-1	4343.18	30	9	J
ccp	013-1	4343.18	361	74	K
ccp	013-1	4343.18	355	38	L
ccp	013-1	4343.18	0	0	M
ccp	013-1	4343.18	302	37	N
ccp	013-1	4343.18	347	43	O
ccp	013-1	4343.18	98	13	P
ccp	013-1	4343.18	187	26	Q
ccp	013-1	4343.18	250	33	R
ccp	013-1	4343.18	266	38	S
ccp	013-1	4343.18	10	3	T

Table 13: Steranes from GCMS for well NOCS 6506/12-6

Type	Sample	Depth	Area	Height	Peak I.D.
oil	054-0	4352.00	175	26	U
oil	054-0	4352.00	30	7	V
oil	054-0	4352.00	239	42	A
oil	054-0	4352.00	144	23	B
oil	054-0	4352.00	34	7	C
oil	054-0	4352.00	96	16	D
oil	054-0	4352.00	99	17	E
oil	054-0	4352.00	132	13	F
oil	054-0	4352.00	20	6	G
oil	054-0	4352.00	183	32	H
oil	054-0	4352.00	65	14	I
oil	054-0	4352.00	0	0	J
oil	054-0	4352.00	103	17	K
oil	054-0	4352.00	57	7	L
oil	054-0	4352.00	0	0	M
oil	054-0	4352.00	41	5	N
oil	054-0	4352.00	26	4	O
oil	054-0	4352.00	7	1	P
oil	054-0	4352.00	3	1	Q
oil	054-0	4352.00	10	2	R
oil	054-0	4352.00	9	2	S
oil	054-0	4352.00	7	1	T
ccp	016-1	4355.12	877	126	U
ccp	016-1	4355.12	190	41	V
ccp	016-1	4355.12	1283	232	A
ccp	016-1	4355.12	835	134	B
ccp	016-1	4355.12	275	52	C
ccp	016-1	4355.12	514	98	D
ccp	016-1	4355.12	588	109	E
ccp	016-1	4355.12	620	86	F
ccp	016-1	4355.12	498	57	G
ccp	016-1	4355.12	1235	201	H
ccp	016-1	4355.12	420	77	I
ccp	016-1	4355.12	207	38	J
ccp	016-1	4355.12	93	41	K
ccp	016-1	4355.12	439	46	L
ccp	016-1	4355.12	0	0	M
ccp	016-1	4355.12	385	45	N
ccp	016-1	4355.12	500	56	O
ccp	016-1	4355.12	127	18	P
ccp	016-1	4355.12	300	38	Q
ccp	016-1	4355.12	102	20	R
ccp	016-1	4355.12	104	22	S
ccp	016-1	4355.12	173	25	T

Table 13: Steranes from GCMS for well NOCS 6506/12-6

Type	Sample	Depth	Area	Height	Peak I.D.
ccp	014-1	4367.00	1547	217	U
ccp	014-1	4367.00	355	73	V
ccp	014-1	4367.00	2635	436	A
ccp	014-1	4367.00	1748	265	B
ccp	014-1	4367.00	181	35	C
ccp	014-1	4367.00	1086	200	D
ccp	014-1	4367.00	1325	225	E
ccp	014-1	4367.00	1710	160	F
ccp	014-1	4367.00	960	101	G
ccp	014-1	4367.00	2354	374	H
ccp	014-1	4367.00	804	142	I
ccp	014-1	4367.00	386	53	J
ccp	014-1	4367.00	1687	248	K
ccp	014-1	4367.00	899	99	L
ccp	014-1	4367.00	0	0	M
ccp	014-1	4367.00	518	64	N
ccp	014-1	4367.00	452	76	O
ccp	014-1	4367.00	198	28	P
ccp	014-1	4367.00	502	61	Q
ccp	014-1	4367.00	699	89	R
ccp	014-1	4367.00	732	95	S
ccp	014-1	4367.00	189	29	T
cut	046-2	4386.00	189	24	U
cut	046-2	4386.00	49	8	V
cut	046-2	4386.00	107	19	A
cut	046-2	4386.00	63	11	B
cut	046-2	4386.00	18	4	C
cut	046-2	4386.00	31	6	D
cut	046-2	4386.00	33	6	E
cut	046-2	4386.00	32	5	F
cut	046-2	4386.00	32	4	G
cut	046-2	4386.00	106	20	H
cut	046-2	4386.00	45	11	I
cut	046-2	4386.00	0	0	J
cut	046-2	4386.00	51	9	K
cut	046-2	4386.00	36	4	L
cut	046-2	4386.00	0	0	M
cut	046-2	4386.00	34	4	N
cut	046-2	4386.00	15	3	O
cut	046-2	4386.00	14	2	P
cut	046-2	4386.00	5	2	Q
cut	046-2	4386.00	31	4	R
cut	046-2	4386.00	40	5	S
cut	046-2	4386.00	17	2	T

Table 13: Steranes from GCMS for well NOCS 6506/12-6

Type	Sample	Depth	Area	Height	Peak I.D.
cut	047-2	4395.00	154	19	U
cut	047-2	4395.00	33	5	V
cut	047-2	4395.00	56	11	A
cut	047-2	4395.00	35	6	B
cut	047-2	4395.00	18	3	C
cut	047-2	4395.00	13	3	D
cut	047-2	4395.00	22	4	E
cut	047-2	4395.00	22	3	F
cut	047-2	4395.00	39	5	G
cut	047-2	4395.00	101	17	H
cut	047-2	4395.00	42	9	I
cut	047-2	4395.00	5	1	J
cut	047-2	4395.00	40	7	K
cut	047-2	4395.00	20	2	L
cut	047-2	4395.00	0	0	M
cut	047-2	4395.00	29	4	N
cut	047-2	4395.00	17	3	O
cut	047-2	4395.00	13	2	P
cut	047-2	4395.00	7	2	Q
cut	047-2	4395.00	24	4	R
cut	047-2	4395.00	38	5	S
cut	047-2	4395.00	20	3	T
cut	048-2	4404.00	51	6	U
cut	048-2	4404.00	15	2	V
cut	048-2	4404.00	31	6	A
cut	048-2	4404.00	22	4	B
cut	048-2	4404.00	10	2	C
cut	048-2	4404.00	8	2	D
cut	048-2	4404.00	12	2	E
cut	048-2	4404.00	22	2	F
cut	048-2	4404.00	15	2	G
cut	048-2	4404.00	47	9	H
cut	048-2	4404.00	9	3	I
cut	048-2	4404.00	12	2	J
cut	048-2	4404.00	32	5	K
cut	048-2	4404.00	10	1	L
cut	048-2	4404.00	0	0	M
cut	048-2	4404.00	8	1	N
cut	048-2	4404.00	3	1	O
cut	048-2	4404.00	5	1	P
cut	048-2	4404.00	13	1	Q
cut	048-2	4404.00	3	1	R
cut	048-2	4404.00	3	1	S
cut	048-2	4404.00	8	1	T

Table 13: Steranes from GCMS for well NOCS 6506/12-6

Type	Sample	Depth	Area	Height	Peak I.D.
cut	049-2	4413.00	37	5	U
cut	049-2	4413.00	8	1	V
cut	049-2	4413.00	22	4	A
cut	049-2	4413.00	13	2	B
cut	049-2	4413.00	5	1	C
cut	049-2	4413.00	8	2	D
cut	049-2	4413.00	8	2	E
cut	049-2	4413.00	6	1	F
cut	049-2	4413.00	12	2	G
cut	049-2	4413.00	39	7	H
cut	049-2	4413.00	16	4	I
cut	049-2	4413.00	6	1	J
cut	049-2	4413.00	21	3	K
cut	049-2	4413.00	4	1	L
cut	049-2	4413.00	0	0	M
cut	049-2	4413.00	6	1	N
cut	049-2	4413.00	3	1	O
cut	049-2	4413.00	4	1	P
cut	049-2	4413.00	9	1	Q
cut	049-2	4413.00	11	1	R
cut	049-2	4413.00	11	2	S
cut	049-2	4413.00	5	1	T
cut	050-2	4422.00	23	3	U
cut	050-2	4422.00	4	1	V
cut	050-2	4422.00	15	3	A
cut	050-2	4422.00	11	2	B
cut	050-2	4422.00	5	1	C
cut	050-2	4422.00	5	1	D
cut	050-2	4422.00	5	1	E
cut	050-2	4422.00	5	1	F
cut	050-2	4422.00	3	1	G
cut	050-2	4422.00	22	4	H
cut	050-2	4422.00	3	1	I
cut	050-2	4422.00	0	0	J
cut	050-2	4422.00	15	2	K
cut	050-2	4422.00	3	1	L
cut	050-2	4422.00	0	0	M
cut	050-2	4422.00	3	1	N
cut	050-2	4422.00	3	1	O
cut	050-2	4422.00	1	0	P
cut	050-2	4422.00	4	1	Q
cut	050-2	4422.00	5	1	R
cut	050-2	4422.00	6	1	S
cut	050-2	4422.00	4	1	T

Table 13: Steranes from GCMS for well NOCS 6506/12-6

Type	Sample	Depth	Area	Height	Peak I.D.
cut	051-2	4431.00	48	8	U
cut	051-2	4431.00	19	3	V
cut	051-2	4431.00	129	25	A
cut	051-2	4431.00	112	18	B
cut	051-2	4431.00	29	6	C
cut	051-2	4431.00	55	10	D
cut	051-2	4431.00	65	11	E
cut	051-2	4431.00	63	9	F
cut	051-2	4431.00	51	63	G
cut	051-2	4431.00	241	39	H
cut	051-2	4431.00	40	8	I
cut	051-2	4431.00	0	0	J
cut	051-2	4431.00	137	23	K
cut	051-2	4431.00	65	7	L
cut	051-2	4431.00	0	0	M
cut	051-2	4431.00	63	8	N
cut	051-2	4431.00	41	5	O
cut	051-2	4431.00	7	1	P
cut	051-2	4431.00	35	5	Q
cut	051-2	4431.00	40	6	R
cut	051-2	4431.00	51	7	S
cut	051-2	4431.00	17	2	T
ccp	015-1	4454.26	128	17	U
ccp	015-1	4454.26	31	5	V
ccp	015-1	4454.26	60	11	A
ccp	015-1	4454.26	34	7	B
ccp	015-1	4454.26	13	3	C
ccp	015-1	4454.26	21	4	D
ccp	015-1	4454.26	20	4	E
ccp	015-1	4454.26	15	2	F
ccp	015-1	4454.26	62	8	G
ccp	015-1	4454.26	86	14	H
ccp	015-1	4454.26	41	6	I
ccp	015-1	4454.26	73	11	J
ccp	015-1	4454.26	58	9	K
ccp	015-1	4454.26	16	3	L
ccp	015-1	4454.26	0	0	M
ccp	015-1	4454.26	38	5	N
ccp	015-1	4454.26	34	5	O
ccp	015-1	4454.26	40	6	P
ccp	015-1	4454.26	47	7	Q
ccp	015-1	4454.26	44	6	R
ccp	015-1	4454.26	51	7	S
ccp	015-1	4454.26	53	7	T

Table 13: Steranes from GCMS for well NOCS 6506/12-6

Type	Sample	Depth	Area	Height	Peak I.D.
ccp	017-1	4460.14	105	15	U
ccp	017-1	4460.14	9	1	V
ccp	017-1	4460.14	31	6	A
ccp	017-1	4460.14	15	3	B
ccp	017-1	4460.14	7	1	C
ccp	017-1	4460.14	11	2	D
ccp	017-1	4460.14	16	2	E
ccp	017-1	4460.14	14	2	F
ccp	017-1	4460.14	23	4	G
ccp	017-1	4460.14	29	5	H
ccp	017-1	4460.14	9	2	I
ccp	017-1	4460.14	35	7	J
ccp	017-1	4460.14	31	5	K
ccp	017-1	4460.14	5	1	L
ccp	017-1	4460.14	0	0	M
ccp	017-1	4460.14	29	4	N
ccp	017-1	4460.14	21	4	O
ccp	017-1	4460.14	30	4	P
ccp	017-1	4460.14	36	5	Q
ccp	017-1	4460.14	25	4	R
ccp	017-1	4460.14	34	5	S
ccp	017-1	4460.14	42	6	T
ccp	018-1	4464.80	2699	351	U
ccp	018-1	4464.80	466	88	V
ccp	018-1	4464.80	3133	489	A
ccp	018-1	4464.80	1964	311	B
ccp	018-1	4464.80	548	108	C
ccp	018-1	4464.80	1321	238	D
ccp	018-1	4464.80	1628	276	E
ccp	018-1	4464.80	2074	197	F
ccp	018-1	4464.80	1289	135	G
ccp	018-1	4464.80	2972	464	H
ccp	018-1	4464.80	1031	184	I
ccp	018-1	4464.80	405	91	J
ccp	018-1	4464.80	2315	322	K
ccp	018-1	4464.80	1134	122	L
ccp	018-1	4464.80	0	0	M
ccp	018-1	4464.80	754	88	N
ccp	018-1	4464.80	737	130	O
ccp	018-1	4464.80	307	43	P
ccp	018-1	4464.80	682	86	Q
ccp	018-1	4464.80	1078	129	R
ccp	018-1	4464.80	978	140	S
ccp	018-1	4464.80	340	50	T

Table 13: Steranes from GCMS for well NOCS 6506/12-6

Type	Sample	Depth	Area	Height	Peak I.D.
ccp	019-1	4480.12	545	72	U
ccp	019-1	4480.12	131	25	V
ccp	019-1	4480.12	714	125	A
ccp	019-1	4480.12	501	78	B
ccp	019-1	4480.12	151	29	C
ccp	019-1	4480.12	312	58	D
ccp	019-1	4480.12	431	71	E
ccp	019-1	4480.12	581	55	F
ccp	019-1	4480.12	301	36	G
ccp	019-1	4480.12	844	136	H
ccp	019-1	4480.12	270	58	I
ccp	019-1	4480.12	23	7	J
ccp	019-1	4480.12	437	81	K
ccp	019-1	4480.12	336	36	L
ccp	019-1	4480.12	0	0	M
ccp	019-1	4480.12	318	38	N
ccp	019-1	4480.12	393	44	O
ccp	019-1	4480.12	96	13	P
ccp	019-1	4480.12	201	27	Q
ccp	019-1	4480.12	296	37	R
ccp	019-1	4480.12	317	43	S
ccp	019-1	4480.12	108	16	T
ccp	020-1	4486.88	473	63	U
ccp	020-1	4486.88	123	23	V
ccp	020-1	4486.88	631	112	A
ccp	020-1	4486.88	432	69	B
ccp	020-1	4486.88	158	29	C
ccp	020-1	4486.88	317	55	D
ccp	020-1	4486.88	342	61	E
ccp	020-1	4486.88	482	46	F
ccp	020-1	4486.88	284	32	G
ccp	020-1	4486.88	680	113	H
ccp	020-1	4486.88	280	52	I
ccp	020-1	4486.88	66	13	J
ccp	020-1	4486.88	524	81	K
ccp	020-1	4486.88	276	30	L
ccp	020-1	4486.88	0	0	M
ccp	020-1	4486.88	199	26	N
ccp	020-1	4486.88	212	31	O
ccp	020-1	4486.88	88	12	P
ccp	020-1	4486.88	227	28	Q
ccp	020-1	4486.88	318	39	R
ccp	020-1	4486.88	292	45	S
ccp	020-1	4486.88	108	16	T

Table 13: Steranes from GCMS for well NOCS 6506/12-6

Type	Sample	Depth	Area	Height	Peak I.D.
ccp	021-1	4515.84	312	50	U
ccp	021-1	4515.84	148	25	V
ccp	021-1	4515.84	707	123	A
ccp	021-1	4515.84	463	72	B
ccp	021-1	4515.84	134	28	C
ccp	021-1	4515.84	329	62	D
ccp	021-1	4515.84	399	70	E
ccp	021-1	4515.84	534	49	F
ccp	021-1	4515.84	331	34	G
ccp	021-1	4515.84	752	115	H
ccp	021-1	4515.84	298	59	I
ccp	021-1	4515.84	107	16	J
ccp	021-1	4515.84	536	78	K
ccp	021-1	4515.84	275	30	L
ccp	021-1	4515.84	0	0	M
ccp	021-1	4515.84	257	29	N
ccp	021-1	4515.84	343	39	O
ccp	021-1	4515.84	82	12	P
ccp	021-1	4515.84	202	25	Q
ccp	021-1	4515.84	76	14	R
ccp	021-1	4515.84	68	16	S
ccp	021-1	4515.84	91	14	T
ccp	022-1	4518.62	465	62	U
ccp	022-1	4518.62	97	19	V
ccp	022-1	4518.62	637	107	A
ccp	022-1	4518.62	443	67	B
ccp	022-1	4518.62	117	25	C
ccp	022-1	4518.62	290	54	D
ccp	022-1	4518.62	343	63	E
ccp	022-1	4518.62	528	51	F
ccp	022-1	4518.62	301	34	G
ccp	022-1	4518.62	739	121	H
ccp	022-1	4518.62	289	55	I
ccp	022-1	4518.62	13	5	J
ccp	022-1	4518.62	344	67	K
ccp	022-1	4518.62	340	35	L
ccp	022-1	4518.62	0	0	M
ccp	022-1	4518.62	215	28	N
ccp	022-1	4518.62	219	34	O
ccp	022-1	4518.62	11	4	P
ccp	022-1	4518.62	242	31	Q
ccp	022-1	4518.62	86	17	R
ccp	022-1	4518.62	91	20	S
ccp	022-1	4518.62	98	16	T

Table 13: Steranes from GCMS for well NOCS 6506/12-6

Type	Sample	Depth	Area	Height	Peak I.D.
ccp	023-1	4553.55	741	92	U
ccp	023-1	4553.55	230	39	V
ccp	023-1	4553.55	1089	180	A
ccp	023-1	4553.55	738	113	B
ccp	023-1	4553.55	236	43	C
ccp	023-1	4553.55	157	49	D
ccp	023-1	4553.55	477	80	E
ccp	023-1	4553.55	697	64	F
ccp	023-1	4553.55	392	42	G
ccp	023-1	4553.55	1235	190	H
ccp	023-1	4553.55	533	111	I
ccp	023-1	4553.55	122	25	J
ccp	023-1	4553.55	783	116	K
ccp	023-1	4553.55	420	44	L
ccp	023-1	4553.55	0	0	M
ccp	023-1	4553.55	362	38	N
ccp	023-1	4553.55	516	54	O
ccp	023-1	4553.55	92	13	P
ccp	023-1	4553.55	260	32	Q
ccp	023-1	4553.55	90	16	R
ccp	023-1	4553.55	102	21	S
ccp	023-1	4553.55	133	21	T
oil	055-0	4592.00	195	28	U
oil	055-0	4592.00	42	8	V
oil	055-0	4592.00	109	19	A
oil	055-0	4592.00	70	11	B
oil	055-0	4592.00	13	3	C
oil	055-0	4592.00	15	3	D
oil	055-0	4592.00	13	4	E
oil	055-0	4592.00	43	8	F
oil	055-0	4592.00	46	5	G
oil	055-0	4592.00	142	23	H
oil	055-0	4592.00	47	10	I
oil	055-0	4592.00	0	0	J
oil	055-0	4592.00	67	11	K
oil	055-0	4592.00	38	6	L
oil	055-0	4592.00	0	0	M
oil	055-0	4592.00	56	6	N
oil	055-0	4592.00	52	6	O
oil	055-0	4592.00	5	1	P
oil	055-0	4592.00	18	3	Q
oil	055-0	4592.00	7	1	R
oil	055-0	4592.00	10	2	S
oil	055-0	4592.00	11	1	T

Table 13: Steranes from GCMS for well NOCS 6506/12-6

Type	Sample	Depth	Area	Height	Peak I.D.
ccp	024-1	4606.43	707	86	U
ccp	024-1	4606.43	230	37	V
ccp	024-1	4606.43	968	161	A
ccp	024-1	4606.43	940	98	B
ccp	024-1	4606.43	167	34	C
ccp	024-1	4606.43	364	68	D
ccp	024-1	4606.43	434	79	E
ccp	024-1	4606.43	669	64	F
ccp	024-1	4606.43	277	34	G
ccp	024-1	4606.43	878	144	H
ccp	024-1	4606.43	216	62	I
ccp	024-1	4606.43	91	17	J
ccp	024-1	4606.43	592	90	K
ccp	024-1	4606.43	293	29	L
ccp	024-1	4606.43	0	0	M
ccp	024-1	4606.43	263	29	N
ccp	024-1	4606.43	362	39	O
ccp	024-1	4606.43	87	12	P
ccp	024-1	4606.43	205	26	Q
ccp	024-1	4606.43	259	33	R
ccp	024-1	4606.43	280	39	S
ccp	024-1	4606.43	97	15	T
cut	052-3	4728.00	3	1	U
cut	052-3	4728.00	5	1	V
cut	052-3	4728.00	1	1	A
cut	052-3	4728.00	7	1	B
cut	052-3	4728.00	3	0	C
cut	052-3	4728.00	5	1	D
cut	052-3	4728.00	8	1	E
cut	052-3	4728.00	6	1	F
cut	052-3	4728.00	5	1	G
cut	052-3	4728.00	14	2	H
cut	052-3	4728.00	3	1	I
cut	052-3	4728.00	1	0	J
cut	052-3	4728.00	5	1	K
cut	052-3	4728.00	2	1	L
cut	052-3	4728.00	0	0	M
cut	052-3	4728.00	4	1	N
cut	052-3	4728.00	3	0	O
cut	052-3	4728.00	2	0	P
cut	052-3	4728.00	3	0	Q
cut	052-3	4728.00	2	1	R
cut	052-3	4728.00	6	1	S
cut	052-3	4728.00	1	0	T

Table 13: Steranes from GCMS for well NOCS 6506/12-6

Type	Sample	Depth	Area	Height	Peak I.D.
cut	053-6	4737.00	9	1	U
cut	053-6	4737.00	2	0	V
cut	053-6	4737.00	4	1	A
cut	053-6	4737.00	10	1	B
cut	053-6	4737.00	0	0	C
cut	053-6	4737.00	0	0	D
cut	053-6	4737.00	0	0	E
cut	053-6	4737.00	5	1	F
cut	053-6	4737.00	4	1	G
cut	053-6	4737.00	8	1	H
cut	053-6	4737.00	2	1	I
cut	053-6	4737.00	0	0	J
cut	053-6	4737.00	9	1	K
cut	053-6	4737.00	1	0	L
cut	053-6	4737.00	0	0	M
cut	053-6	4737.00	3	1	N
cut	053-6	4737.00	5	1	O
cut	053-6	4737.00	2	0	P
cut	053-6	4737.00	6	1	Q
cut	053-6	4737.00	7	1	R
cut	053-6	4737.00	10	2	S
cut	053-6	4737.00	9	1	T

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Table 14: Triterpanes from GCMS for well NOCS 6506/12-6

Type	Sample	Depth	Area	Height	Peak I.D.
CUTT	025-1	4029.00	115	22	P
CUTT	025-1	4029.00	92	18	Q
CUTT	025-1	4029.00	86	10	R
CUTT	025-1	4029.00	35	6	S
CUTT	025-1	4029.00	17	4	T
CUTT	025-1	4029.00	151	26	A
CUTT	025-1	4029.00	46	8	B
CUTT	025-1	4029.00	0	0	Z
CUTT	025-1	4029.00	95	14	C
CUTT	025-1	4029.00	41	6	X
CUTT	025-1	4029.00	0	0	D
CUTT	025-1	4029.00	258	34	E
CUTT	025-1	4029.00	11	2	F
CUTT	025-1	4029.00	66	8	G
CUTT	025-1	4029.00	64	6	H
CUTT	025-1	4029.00	0	0	I
CUTT	025-1	4029.00	93	8	J
CUTT	025-1	4029.00	52	3	K
CUTT	025-1	4029.00	26	1	L
CUTT	025-1	4029.00	17	1	M
CUTT	026-1	4041.00	79	15	P
CUTT	026-1	4041.00	94	16	Q
CUTT	026-1	4041.00	104	12	R
CUTT	026-1	4041.00	63	12	S
CUTT	026-1	4041.00	29	5	T
CUTT	026-1	4041.00	253	42	A
CUTT	026-1	4041.00	61	9	B
CUTT	026-1	4041.00	0	0	Z
CUTT	026-1	4041.00	74	13	C
CUTT	026-1	4041.00	66	9	X
CUTT	026-1	4041.00	0	0	D
CUTT	026-1	4041.00	298	39	E
CUTT	026-1	4041.00	19	3	F
CUTT	026-1	4041.00	104	11	G
CUTT	026-1	4041.00	68	7	H
CUTT	026-1	4041.00	0	0	I
CUTT	026-1	4041.00	113	10	J
CUTT	026-1	4041.00	52	4	K
CUTT	026-1	4041.00	33	2	L
CUTT	026-1	4041.00	27	1	M

Table 14: Triterpanes from GCMS for well NOCS 6506/12-6

Type	Sample	Depth	Area	Height	Peak I.D.
CUTT	027-1	4050.00	123	23	P
CUTT	027-1	4050.00	151	24	Q
CUTT	027-1	4050.00	107	13	R
CUTT	027-1	4050.00	78	14	S
CUTT	027-1	4050.00	34	6	T
CUTT	027-1	4050.00	371	59	A
CUTT	027-1	4050.00	102	15	B
CUTT	027-1	4050.00	0	0	Z
CUTT	027-1	4050.00	97	17	C
CUTT	027-1	4050.00	97	13	X
CUTT	027-1	4050.00	0	0	D
CUTT	027-1	4050.00	437	54	E
CUTT	027-1	4050.00	20	3	F
CUTT	027-1	4050.00	110	11	G
CUTT	027-1	4050.00	78	7	H
CUTT	027-1	4050.00	0	0	I
CUTT	027-1	4050.00	150	13	J
CUTT	027-1	4050.00	69	4	K
CUTT	027-1	4050.00	31	2	L
CUTT	027-1	4050.00	21	1	M
KJ	001-1	4184.30	9	2	P
KJ	001-1	4184.30	5	1	Q
KJ	001-1	4184.30	3	1	R
KJ	001-1	4184.30	25	5	S
KJ	001-1	4184.30	1	0	T
KJ	001-1	4184.30	12	2	A
KJ	001-1	4184.30	43	7	B
KJ	001-1	4184.30	0	0	Z
KJ	001-1	4184.30	52	8	C
KJ	001-1	4184.30	19	2	X
KJ	001-1	4184.30	0	0	D
KJ	001-1	4184.30	95	12	E
KJ	001-1	4184.30	6	1	F
KJ	001-1	4184.30	33	4	G
KJ	001-1	4184.30	20	2	H
KJ	001-1	4184.30	0	0	I
KJ	001-1	4184.30	22	2	J
KJ	001-1	4184.30	10	1	K
KJ	001-1	4184.30	5	0	L
KJ	001-1	4184.30	0	0	M

Table 14: Triterpanes from GCMS for well NOCS 6506/12-6

Type	Sample	Depth	Area	Height	Peak I.D.
KJ	002-1	4199.35	22	5	P
KJ	002-1	4199.35	9	2	Q
KJ	002-1	4199.35	17	2	R
KJ	002-1	4199.35	85	17	S
KJ	002-1	4199.35	3	1	T
KJ	002-1	4199.35	53	9	A
KJ	002-1	4199.35	18	9	B
KJ	002-1	4199.35	0	0	Z
KJ	002-1	4199.35	205	28	C
KJ	002-1	4199.35	92	13	X
KJ	002-1	4199.35	0	0	D
KJ	002-1	4199.35	363	52	E
KJ	002-1	4199.35	23	3	F
KJ	002-1	4199.35	171	19	G
KJ	002-1	4199.35	100	12	H
KJ	002-1	4199.35	0	0	I
KJ	002-1	4199.35	140	13	J
KJ	002-1	4199.35	55	4	K
KJ	002-1	4199.35	27	2	L
KJ	002-1	4199.35	14	1	M
KJ	003-1	4235.60	238	44	P
KJ	003-1	4235.60	230	37	Q
KJ	003-1	4235.60	227	24	R
KJ	003-1	4235.60	135	26	S
KJ	003-1	4235.60	69	12	T
KJ	003-1	4235.60	366	62	A
KJ	003-1	4235.60	173	27	B
KJ	003-1	4235.60	0	0	Z
KJ	003-1	4235.60	56	12	C
KJ	003-1	4235.60	150	21	X
KJ	003-1	4235.60	0	0	D
KJ	003-1	4235.60	527	65	E
KJ	003-1	4235.60	34	4	F
KJ	003-1	4235.60	91	9	G
KJ	003-1	4235.60	63	7	H
KJ	003-1	4235.60	0	0	I
KJ	003-1	4235.60	124	10	J
KJ	003-1	4235.60	75	4	K
KJ	003-1	4235.60	51	2	L
KJ	003-1	4235.60	21	1	M

Table 14: Triterpanes from GCMS for well NOCS 6506/12-6

Type	Sample	Depth	Area	Height	Peak I.D.
KJ	004-1	4240.70	362	65	P
KJ	004-1	4240.70	240	48	Q
KJ	004-1	4240.70	702	143	R
KJ	004-1	4240.70	207	38	S
KJ	004-1	4240.70	121	20	T
KJ	004-1	4240.70	592	95	A
KJ	004-1	4240.70	336	51	B
KJ	004-1	4240.70	0	0	Z
KJ	004-1	4240.70	482	55	C
KJ	004-1	4240.70	190	26	X
KJ	004-1	4240.70	0	0	D
KJ	004-1	4240.70	775	91	E
KJ	004-1	4240.70	58	7	F
KJ	004-1	4240.70	156	16	G
KJ	004-1	4240.70	123	14	H
KJ	004-1	4240.70	0	0	I
KJ	004-1	4240.70	194	15	J
KJ	004-1	4240.70	93	5	K
KJ	004-1	4240.70	45	2	L
KJ	004-1	4240.70	26	1	M
KJ	005-1	4246.62	795	155	P
KJ	005-1	4246.62	549	116	Q
KJ	005-1	4246.62	626	71	R
KJ	005-1	4246.62	436	85	S
KJ	005-1	4246.62	181	35	T
KJ	005-1	4246.62	1036	183	A
KJ	005-1	4246.62	592	96	B
KJ	005-1	4246.62	0	0	Z
KJ	005-1	4246.62	925	123	C
KJ	005-1	4246.62	382	54	X
KJ	005-1	4246.62	0	0	D
KJ	005-1	4246.62	1419	199	E
KJ	005-1	4246.62	138	18	F
KJ	005-1	4246.62	499	53	G
KJ	005-1	4246.62	457	40	H
KJ	005-1	4246.62	0	0	I
KJ	005-1	4246.62	647	57	J
KJ	005-1	4246.62	369	24	K
KJ	005-1	4246.62	170	9	L
KJ	005-1	4246.62	110	5	M

Table 14: Triterpanes from GCMS for well NOCS 6506/12-6

Type	Sample	Depth	Area	Height	Peak I.D.
KJ	006-1	4250.60	555	112	P
KJ	006-1	4250.60	455	80	Q
KJ	006-1	4250.60	531	97	R
KJ	006-1	4250.60	349	69	S
KJ	006-1	4250.60	146	28	T
KJ	006-1	4250.60	874	152	A
KJ	006-1	4250.60	466	77	B
KJ	006-1	4250.60	0	0	Z
KJ	006-1	4250.60	807	103	C
KJ	006-1	4250.60	354	51	X
KJ	006-1	4250.60	0	0	D
KJ	006-1	4250.60	1280	176	E
KJ	006-1	4250.60	152	16	F
KJ	006-1	4250.60	384	42	G
KJ	006-1	4250.60	315	31	H
KJ	006-1	4250.60	0	0	I
KJ	006-1	4250.60	533	44	J
KJ	006-1	4250.60	256	18	K
KJ	006-1	4250.60	131	7	L
KJ	006-1	4250.60	107	4	M
KJ	007-1	4259.64	444	92	P
KJ	007-1	4259.64	355	69	Q
KJ	007-1	4259.64	3083	735	R
KJ	007-1	4259.64	267	55	S
KJ	007-1	4259.64	94	20	T
KJ	007-1	4259.64	823	144	A
KJ	007-1	4259.64	436	72	B
KJ	007-1	4259.64	0	0	Z
KJ	007-1	4259.64	710	94	C
KJ	007-1	4259.64	378	53	X
KJ	007-1	4259.64	0	0	D
KJ	007-1	4259.64	1289	167	E
KJ	007-1	4259.64	97	13	F
KJ	007-1	4259.64	336	38	G
KJ	007-1	4259.64	241	26	H
KJ	007-1	4259.64	0	0	I
KJ	007-1	4259.64	454	42	J
KJ	007-1	4259.64	278	18	K
KJ	007-1	4259.64	182	8	L
KJ	007-1	4259.64	109	5	M

Table 14: Triterpanes from GCMS for well NOCS 6506/12-6 Page: 6

Type	Sample	Depth	Area	Height	Peak I.D.
KJ	008-0	4317.78	1660	301	P
KJ	008-0	4317.78	1099	190	Q
KJ	008-0	4317.78	6832	1386	R
KJ	008-0	4317.78	876	159	S
KJ	008-0	4317.78	174	40	T
KJ	008-0	4317.78	1794	298	A
KJ	008-0	4317.78	1018	151	B
KJ	008-0	4317.78	0	0	Z
KJ	008-0	4317.78	1649	215	C
KJ	008-0	4317.78	691	98	X
KJ	008-0	4317.78	0	0	D
KJ	008-0	4317.78	3001	411	E
KJ	008-0	4317.78	212	29	F
KJ	008-0	4317.78	874	96	G
KJ	008-0	4317.78	528	63	H
KJ	008-0	4317.78	0	0	I
KJ	008-0	4317.78	714	75	J
KJ	008-0	4317.78	480	33	K
KJ	008-0	4317.78	230	12	L
KJ	008-0	4317.78	105	5	M
KJ	009-1	4322.11	612	126	P
KJ	009-1	4322.11	438	84	Q
KJ	009-1	4322.11	26778	5344	R
KJ	009-1	4322.11	296	65	S
KJ	009-1	4322.11	99	24	T
KJ	009-1	4322.11	763	139	A
KJ	009-1	4322.11	415	75	B
KJ	009-1	4322.11	0	0	Z
KJ	009-1	4322.11	339	65	C
KJ	009-1	4322.11	243	40	X
KJ	009-1	4322.11	0	0	D
KJ	009-1	4322.11	1439	186	E
KJ	009-1	4322.11	119	16	F
KJ	009-1	4322.11	415	43	G
KJ	009-1	4322.11	376	35	H
KJ	009-1	4322.11	0	0	I
KJ	009-1	4322.11	621	49	J
KJ	009-1	4322.11	354	22	K
KJ	009-1	4322.11	164	8	L
KJ	009-1	4322.11	132	5	M

Table 14: Triterpanes from GCMS for well NOCS 6506/12-6 Page: 7

Type	Sample	Depth	Area	Height	Peak I.D.
KJ	010-1	4327.18	944	188	P
KJ	010-1	4327.18	752	123	Q
KJ	010-1	4327.18	8145	1620	R
KJ	010-1	4327.18	480	90	S
KJ	010-1	4327.18	144	33	T
KJ	010-1	4327.18	1201	203	A
KJ	010-1	4327.18	697	114	B
KJ	010-1	4327.18	0	0	Z
KJ	010-1	4327.18	583	103	C
KJ	010-1	4327.18	425	61	X
KJ	010-1	4327.18	0	0	D
KJ	010-1	4327.18	2144	282	E
KJ	010-1	4327.18	145	21	F
KJ	010-1	4327.18	631	69	G
KJ	010-1	4327.18	517	53	H
KJ	010-1	4327.18	0	0	I
KJ	010-1	4327.18	689	68	J
KJ	010-1	4327.18	511	33	K
KJ	010-1	4327.18	299	13	L
KJ	010-1	4327.18	185	7	M
KJ	011-1	4332.63	307	66	P
KJ	011-1	4332.63	268	47	Q
KJ	011-1	4332.63	674	128	R
KJ	011-1	4332.63	168	33	S
KJ	011-1	4332.63	53	12	T
KJ	011-1	4332.63	507	86	A
KJ	011-1	4332.63	299	47	B
KJ	011-1	4332.63	0	0	Z
KJ	011-1	4332.63	512	70	C
KJ	011-1	4332.63	181	25	X
KJ	011-1	4332.63	0	0	D
KJ	011-1	4332.63	896	127	E
KJ	011-1	4332.63	86	10	F
KJ	011-1	4332.63	288	31	G
KJ	011-1	4332.63	198	22	H
KJ	011-1	4332.63	0	0	I
KJ	011-1	4332.63	315	28	J
KJ	011-1	4332.63	185	12	K
KJ	011-1	4332.63	106	5	L
KJ	011-1	4332.63	65	3	M

Table 14: Triterpanes from GCMS for well NOCS 6506/12-6

Type	Sample	Depth	Area	Height	Peak I.D.
KJ	012-1	4339.63	634	120	P
KJ	012-1	4339.63	511	81	Q
KJ	012-1	4339.63	503	53	R
KJ	012-1	4339.63	339	67	S
KJ	012-1	4339.63	152	28	T
KJ	012-1	4339.63	1011	170	A
KJ	012-1	4339.63	555	90	B
KJ	012-1	4339.63	0	0	Z
KJ	012-1	4339.63	980	122	C
KJ	012-1	4339.63	377	52	X
KJ	012-1	4339.63	0	0	D
KJ	012-1	4339.63	1504	217	E
KJ	012-1	4339.63	132	17	F
KJ	012-1	4339.63	499	52	G
KJ	012-1	4339.63	357	36	H
KJ	012-1	4339.63	0	0	I
KJ	012-1	4339.63	642	54	J
KJ	012-1	4339.63	363	23	K
KJ	012-1	4339.63	163	9	L
KJ	012-1	4339.63	131	5	M
KJ	013-1	4343.18	528	97	P
KJ	013-1	4343.18	381	66	Q
KJ	013-1	4343.18	733	163	R
KJ	013-1	4343.18	248	49	S
KJ	013-1	4343.18	123	22	T
KJ	013-1	4343.18	621	109	A
KJ	013-1	4343.18	359	59	B
KJ	013-1	4343.18	0	0	Z
KJ	013-1	4343.18	661	80	C
KJ	013-1	4343.18	216	30	X
KJ	013-1	4343.18	0	0	D
KJ	013-1	4343.18	1170	140	E
KJ	013-1	4343.18	97	12	F
KJ	013-1	4343.18	295	30	G
KJ	013-1	4343.18	230	26	H
KJ	013-1	4343.18	0	0	I
KJ	013-1	4343.18	472	35	J
KJ	013-1	4343.18	238	14	K
KJ	013-1	4343.18	107	6	L
KJ	013-1	4343.18	72	3	M

Table 14: Triterpanes from GCMS for well NOCS 6506/12-6

Type	Sample	Depth	Area	Height	Peak I.D.
OIL	054-0	4352.00	91	17	P
OIL	054-0	4352.00	50	11	Q
OIL	054-0	4352.00	45	7	R
OIL	054-0	4352.00	45	8	S
OIL	054-0	4352.00	10	2	T
OIL	054-0	4352.00	103	17	A
OIL	054-0	4352.00	51	8	B
OIL	054-0	4352.00	0	0	Z
OIL	054-0	4352.00	19	4	C
OIL	054-0	4352.00	27	4	X
OIL	054-0	4352.00	0	0	D
OIL	054-0	4352.00	141	18	E
OIL	054-0	4352.00	8	1	F
OIL	054-0	4352.00	27	3	G
OIL	054-0	4352.00	20	2	H
OIL	054-0	4352.00	0	0	I
OIL	054-0	4352.00	31	3	J
OIL	054-0	4352.00	0	0	K
OIL	054-0	4352.00	0	0	L
OIL	054-0	4352.00	0	0	M
KJ	016-1	4355.12	509	101	P
KJ	016-1	4355.12	357	72	Q
KJ	016-1	4355.12	1939	377	R
KJ	016-1	4355.12	259	50	S
KJ	016-1	4355.12	125	24	T
KJ	016-1	4355.12	692	117	A
KJ	016-1	4355.12	356	54	B
KJ	016-1	4355.12	0	0	Z
KJ	016-1	4355.12	583	78	C
KJ	016-1	4355.12	308	45	X
KJ	016-1	4355.12	0	0	D
KJ	016-1	4355.12	1018	126	E
KJ	016-1	4355.12	81	10	F
KJ	016-1	4355.12	223	24	G
KJ	016-1	4355.12	142	19	H
KJ	016-1	4355.12	0	0	I
KJ	016-1	4355.12	418	31	J
KJ	016-1	4355.12	223	12	K
KJ	016-1	4355.12	129	6	L
KJ	016-1	4355.12	65	3	M

Table 14: Triterpanes from GCMS for well NOCS 6506/12-6

Type	Sample	Depth	Area	Height	Peak I.D.
KJ	014-1	4367.00	1109	198	P
KJ	014-1	4367.00	690	129	Q
KJ	014-1	4367.00	224	64	R
KJ	014-1	4367.00	735	119	S
KJ	014-1	4367.00	135	31	T
KJ	014-1	4367.00	1500	243	A
KJ	014-1	4367.00	907	127	B
KJ	014-1	4367.00	0	0	Z
KJ	014-1	4367.00	1380	163	C
KJ	014-1	4367.00	535	73	X
KJ	014-1	4367.00	0	0	D
KJ	014-1	4367.00	2062	267	E
KJ	014-1	4367.00	137	22	F
KJ	014-1	4367.00	595	58	G
KJ	014-1	4367.00	522	46	H
KJ	014-1	4367.00	0	0	I
KJ	014-1	4367.00	832	65	J
KJ	014-1	4367.00	417	24	K
KJ	014-1	4367.00	240	11	L
KJ	014-1	4367.00	130	6	M
CUTT	046-2	4386.00	109	23	P
CUTT	046-2	4386.00	67	12	Q
CUTT	046-2	4386.00	63	7	R
CUTT	046-2	4386.00	120	24	S
CUTT	046-2	4386.00	9	2	T
CUTT	046-2	4386.00	166	28	A
CUTT	046-2	4386.00	239	40	B
CUTT	046-2	4386.00	0	0	Z
CUTT	046-2	4386.00	65	12	C
CUTT	046-2	4386.00	151	22	X
CUTT	046-2	4386.00	0	0	D
CUTT	046-2	4386.00	441	59	E
CUTT	046-2	4386.00	23	3	F
CUTT	046-2	4386.00	116	12	G
CUTT	046-2	4386.00	203	21	H
CUTT	046-2	4386.00	0	0	I
CUTT	046-2	4386.00	108	10	J
CUTT	046-2	4386.00	66	4	K
CUTT	046-2	4386.00	34	2	L
CUTT	046-2	4386.00	14	1	M

Table 14: Triterpanes from GCMS for well NOCS 6506/12-6

Type	Sample	Depth	Area	Height	Peak I.D.
CUTT	047-2	4395.00	162	32	P
CUTT	047-2	4395.00	66	11	Q
CUTT	047-2	4395.00	78	9	R
CUTT	047-2	4395.00	124	24	S
CUTT	047-2	4395.00	19	4	T
CUTT	047-2	4395.00	126	22	A
CUTT	047-2	4395.00	227	38	B
CUTT	047-2	4395.00	0	0	Z
CUTT	047-2	4395.00	260	34	C
CUTT	047-2	4395.00	153	22	X
CUTT	047-2	4395.00	0	0	D
CUTT	047-2	4395.00	418	61	E
CUTT	047-2	4395.00	25	3	F
CUTT	047-2	4395.00	128	14	G
CUTT	047-2	4395.00	134	15	H
CUTT	047-2	4395.00	0	0	I
CUTT	047-2	4395.00	100	10	J
CUTT	047-2	4395.00	53	3	K
CUTT	047-2	4395.00	24	1	L
CUTT	047-2	4395.00	11	1	M
CUTT	048-2	4404.00	47	10	P
CUTT	048-2	4404.00	25	4	Q
CUTT	048-2	4404.00	28	3	R
CUTT	048-2	4404.00	75	15	S
CUTT	048-2	4404.00	5	1	T
CUTT	048-2	4404.00	82	14	A
CUTT	048-2	4404.00	248	26	B
CUTT	048-2	4404.00	0	0	Z
CUTT	048-2	4404.00	101	15	C
CUTT	048-2	4404.00	92	13	X
CUTT	048-2	4404.00	0	0	D
CUTT	048-2	4404.00	329	42	E
CUTT	048-2	4404.00	165	2	F
CUTT	048-2	4404.00	97	10	G
CUTT	048-2	4404.00	129	15	H
CUTT	048-2	4404.00	0	0	I
CUTT	048-2	4404.00	86	8	J
CUTT	048-2	4404.00	37	2	K
CUTT	048-2	4404.00	20	1	L
CUTT	048-2	4404.00	0	0	M

Table 14: Triterpanes from GCMS for well NOCS 6506/12-6

Type	Sample	Depth	Area	Height	Peak I.D.
CUTT	049-2	4413.00	29	6	P
CUTT	049-2	4413.00	10	2	Q
CUTT	049-2	4413.00	10	2	R
CUTT	049-2	4413.00	63	12	S
CUTT	049-2	4413.00	7	1	T
CUTT	049-2	4413.00	63	11	A
CUTT	049-2	4413.00	130	23	B
CUTT	049-2	4413.00	0	0	Z
CUTT	049-2	4413.00	36	7	C
CUTT	049-2	4413.00	87	12	X
CUTT	049-2	4413.00	0	0	D
CUTT	049-2	4413.00	185	27	E
CUTT	049-2	4413.00	11	1	F
CUTT	049-2	4413.00	42	7G	
CUTT	049-2	4413.00	50	5	H
CUTT	049-2	4413.00	0	0	I
CUTT	049-2	4413.00	70	6	J
CUTT	049-2	4413.00	34	2	K
CUTT	049-2	4413.00	20	1	L
CUTT	049-2	4413.00	0	0	M
CUTT	050-2	4422.00	18	4	P
CUTT	050-2	4422.00	8	1	Q
CUTT	050-2	4422.00	15	1	R
CUTT	050-2	4422.00	36	7	S
CUTT	050-2	4422.00	4	1	T
CUTT	050-2	4422.00	37	7	A
CUTT	050-2	4422.00	82	15	B
CUTT	050-2	4422.00	0	0	Z
CUTT	050-2	4422.00	19	3	C
CUTT	050-2	4422.00	57	8	X
CUTT	050-2	4422.00	0	0	D
CUTT	050-2	4422.00	112	15	E
CUTT	050-2	4422.00	8	1	F
CUTT	050-2	4422.00	41	4	G
CUTT	050-2	4422.00	25	3	H
CUTT	050-2	4422.00	0	0	I
CUTT	050-2	4422.00	40	4	J
CUTT	050-2	4422.00	21	1	K
CUTT	050-2	4422.00	9	1	L
CUTT	050-2	4422.00	0	0	M

Table 14: Triterpanes from GCMS for well NOCS 6506/12-6 Page: 13

Type	Sample	Depth	Area	Height	Peak I.D.
CUTT	051-2	4431.00	227	44	P
CUTT	051-2	4431.00	175	32	Q
CUTT	051-2	4431.00	164	20	R
CUTT	051-2	4431.00	45	9	S
CUTT	051-2	4431.00	71	13	T
CUTT	051-2	4431.00	213	34	A
CUTT	051-2	4431.00	140	25	B
CUTT	051-2	4431.00	0	0	Z
CUTT	051-2	4431.00	155	20	C
CUTT	051-2	4431.00	99	14	X
CUTT	051-2	4431.00	0	0	D
CUTT	051-2	4431.00	262	33	E
CUTT	051-2	4431.00	14	2	F
CUTT	051-2	4431.00	48	5	G
CUTT	051-2	4431.00	40	4	H
CUTT	051-2	4431.00	0	0	I
CUTT	051-2	4431.00	74	5	J
CUTT	051-2	4431.00	35	2	K
CUTT	051-2	4431.00	24	1	L
CUTT	051-2	4431.00	0	0	M
KJ	015-1	4454.26	96	20	P
KJ	015-1	4454.26	52	10	Q
KJ	015-1	4454.26	126	23	R
KJ	015-1	4454.26	50	9	S
KJ	015-1	4454.26	20	3	T
KJ	015-1	4454.26	90	15	A
KJ	015-1	4454.26	103	17	B
KJ	015-1	4454.26	0	0	Z
KJ	015-1	4454.26	153	22	C
KJ	015-1	4454.26	61	9	X
KJ	015-1	4454.26	0	0	D
KJ	015-1	4454.26	210	27	E
KJ	015-1	4454.26	12	2	F
KJ	015-1	4454.26	41	5	G
KJ	015-1	4454.26	3	1	H
KJ	015-1	4454.26	0	0	I
KJ	015-1	4454.26	62	5	J
KJ	015-1	4454.26	0	0	K
KJ	015-1	4454.26	0	0	L
KJ	015-1	4454.26	0	0	M

Table 14: Triterpanes from GCMS for well NOCS 6506/12-6

Type	Sample	Depth	Area	Height	Peak I.D.
KJ	017-1	4460.14	56	12	P
KJ	017-1	4460.14	29	6	Q
KJ	017-1	4460.14	66	11	R
KJ	017-1	4460.14	26	5	S
KJ	017-1	4460.14	8	2	T
KJ	017-1	4460.14	43	7	A
KJ	017-1	4460.14	65	11	B
KJ	017-1	4460.14	0	0	Z
KJ	017-1	4460.14	99	14	C
KJ	017-1	4460.14	31	5	X
KJ	017-1	4460.14	0	0	D
KJ	017-1	4460.14	154	20	E
KJ	017-1	4460.14	16	2	F
KJ	017-1	4460.14	32	4	G
KJ	017-1	4460.14	41	3	H
KJ	017-1	4460.14	0	0	I
KJ	017-1	4460.14	64	5	J
KJ	017-1	4460.14	25	2	K
KJ	017-1	4460.14	0	0	L
KJ	017-1	4460.14	0	0	M
KJ	018-1	4464.80	1461	257	P
KJ	018-1	4464.80	747	146	Q
KJ	018-1	4464.80	1053	113	R
KJ	018-1	4464.80	1026	163	S
KJ	018-1	4464.80	136	35	T
KJ	018-1	4464.80	1616	256	A
KJ	018-1	4464.80	1146	151	B
KJ	018-1	4464.80	0	0	Z
KJ	018-1	4464.80	1538	172	C
KJ	018-1	4464.80	754	101	X
KJ	018-1	4464.80	0	0	D
KJ	018-1	4464.80	1766	240	E
KJ	018-1	4464.80	120	20	F
KJ	018-1	4464.80	311	35	G
KJ	018-1	4464.80	274	30	H
KJ	018-1	4464.80	0	0	I
KJ	018-1	4464.80	256	26	J
KJ	018-1	4464.80	269	14	K
KJ	018-1	4464.80	134	6	L
KJ	018-1	4464.80	84	3	M

Table 14: Triterpanes from GCMS for well NOCS 6506/12-6 Page: 15

Type	Sample	Depth	Area	Height	Peak I.D.
KJ	019-1	4480.12	277	55	P
KJ	019-1	4480.12	185	36	Q
KJ	019-1	4480.12	213	21	R
KJ	019-1	4480.12	176	34	S
KJ	019-1	4480.12	64	12	T
KJ	019-1	4480.12	551	90	A
KJ	019-1	4480.12	322	52	B
KJ	019-1	4480.12	0	0	Z
KJ	019-1	4480.12	131	24	C
KJ	019-1	4480.12	263	37	X
KJ	019-1	4480.12	0	0	D
KJ	019-1	4480.12	662	75	E
KJ	019-1	4480.12	56	8	F
KJ	019-1	4480.12	134	14	G
KJ	019-1	4480.12	129	13	H
KJ	019-1	4480.12	0	0	I
KJ	019-1	4480.12	297	22	J
KJ	019-1	4480.12	188	11	K
KJ	019-1	4480.12	70	4	L
KJ	019-1	4480.12	44	3	M
KJ	020-1	4486.88	204	43	P
KJ	020-1	4486.88	191	31	Q
KJ	020-1	4486.88	193	21	R
KJ	020-1	4486.88	183	34	S
KJ	020-1	4486.88	69	12	T
KJ	020-1	4486.88	421	69	A
KJ	020-1	4486.88	270	40	B
KJ	020-1	4486.88	0	0	Z
KJ	020-1	4486.88	417	53	C
KJ	020-1	4486.88	280	37	X
KJ	020-1	4486.88	0	0	D
KJ	020-1	4486.88	674	81	E
KJ	020-1	4486.88	87	10	F
KJ	020-1	4486.88	224	21	G
KJ	020-1	4486.88	167	18	H
KJ	020-1	4486.88	0	0	I
KJ	020-1	4486.88	360	25	J
KJ	020-1	4486.88	179	9	K
KJ	020-1	4486.88	81	4	L
KJ	020-1	4486.88	53	3	M

Table 14: Triterpanes from GCMS for well NOCS 6506/12-6

Type	Sample	Depth	Area	Height	Peak I.D.
KJ	021-1	4515.84	248	45	P
KJ	021-1	4515.84	191	30	Q
KJ	021-1	4515.84	143	20	R
KJ	021-1	4515.84	162	30	S
KJ	021-1	4515.84	55	10	T
KJ	021-1	4515.84	410	67	A
KJ	021-1	4515.84	261	41	B
KJ	021-1	4515.84	0	0	Z
KJ	021-1	4515.84	130	23	C
KJ	021-1	4515.84	235	32	X
KJ	021-1	4515.84	0	0	D
KJ	021-1	4515.84	800	100	E
KJ	021-1	4515.84	87	10	F
KJ	021-1	4515.84	211	22	G
KJ	021-1	4515.84	183	19	H
KJ	021-1	4515.84	0	0	I
KJ	021-1	4515.84	397	31	J
KJ	021-1	4515.84	190	11	K
KJ	021-1	4515.84	124	5	L
KJ	021-1	4515.84	78	3	M
KJ	022-1	4518.62	193	39	P
KJ	022-1	4518.62	180	27	Q
KJ	022-1	4518.62	134	18	R
KJ	022-1	4518.62	132	24	S
KJ	022-1	4518.62	50	10	T
KJ	022-1	4518.62	489	77	A
KJ	022-1	4518.62	275	40	B
KJ	022-1	4518.62	0	0	Z
KJ	022-1	4518.62	328	46	C
KJ	022-1	4518.62	276	37	X
KJ	022-1	4518.62	0	0	D
KJ	022-1	4518.62	436	62	E
KJ	022-1	4518.62	52	7	F
KJ	022-1	4518.62	94	11	G
KJ	022-1	4518.62	64	10	H
KJ	022-1	4518.62	0	0	I
KJ	022-1	4518.62	233	16	J
KJ	022-1	4518.62	145	8	K
KJ	022-1	4518.62	91	4	L
KJ	022-1	4518.62	55	3	M

Table 14: Triterpanes from GCMS for well NOCS 6506/12-6

Type	Sample	Depth	Area	Height	Peak I.D.
KJ	023-1	4553.55	288	57	P
KJ	023-1	4553.55	257	37	Q
KJ	023-1	4553.55	273	29	R
KJ	023-1	4553.55	206	41	S
KJ	023-1	4553.55	80	16	T
KJ	023-1	4553.55	628	98	A
KJ	023-1	4553.55	339	49	B
KJ	023-1	4553.55	0	0	Z
KJ	023-1	4553.55	403	56	C
KJ	023-1	4553.55	352	47	X
KJ	023-1	4553.55	0	0	D
KJ	023-1	4553.55	555	73	E
KJ	023-1	4553.55	62	8	F
KJ	023-1	4553.55	46	6	G
KJ	023-1	4553.55	48	6	H
KJ	023-1	4553.55	0	0	I
KJ	023-1	4553.55	233	17	J
KJ	023-1	4553.55	119	7	K
KJ	023-1	4553.55	84	4	L
KJ	023-1	4553.55	0	0	M
OIL	055-0	4592.00	82	16	P
OIL	055-0	4592.00	46	9	Q
OIL	055-0	4592.00	43	5	R
OIL	055-0	4592.00	29	5	S
OIL	055-0	4592.00	14	2	T
OIL	055-0	4592.00	73	11	A
OIL	055-0	4592.00	37	5	B
OIL	055-0	4592.00	0	0	Z
OIL	055-0	4592.00	24	4	C
OIL	055-0	4592.00	24	3	X
OIL	055-0	4592.00	0	0	D
OIL	055-0	4592.00	30	4	E
OIL	055-0	4592.00	0	0	F
OIL	055-0	4592.00	0	0	G
OIL	055-0	4592.00	0	0	H
OIL	055-0	4592.00	0	0	I
OIL	055-0	4592.00	0	0	J
OIL	055-0	4592.00	0	0	K
OIL	055-0	4592.00	0	0	L
OIL	055-0	4592.00	0	0	M

Table 14: Triterpanes from GCMS for well NOCS 6506/12-6

Type	Sample	Depth	Area	Height	Peak I.D.
KJ	024-1	4606.43	281	49	P
KJ	024-1	4606.43	229	34	Q
KJ	024-1	4606.43	269	27	R
KJ	024-1	4606.43	235	44	S
KJ	024-1	4606.43	94	16	T
KJ	024-1	4606.43	524	87	A
KJ	024-1	4606.43	308	47	B
KJ	024-1	4606.43	0	0	Z
KJ	024-1	4606.43	533	60	C
KJ	024-1	4606.43	252	35	X
KJ	024-1	4606.43	0	0	D
KJ	024-1	4606.43	617	89	E
KJ	024-1	4606.43	89	10	F
KJ	024-1	4606.43	145	17	G
KJ	024-1	4606.43	123	14	H
KJ	024-1	4606.43	0	0	I
KJ	024-1	4606.43	294	23	J
KJ	024-1	4606.43	160	9	K
KJ	024-1	4606.43	79	4	L
KJ	024-1	4606.43	0	0	M
CUTT	052-3	4728.00	13	3	P
CUTT	052-3	4728.00	9	2	Q
CUTT	052-3	4728.00	7	1	R
CUTT	052-3	4728.00	7	1	S
CUTT	052-3	4728.00	2	0	T
CUTT	052-3	4728.00	15	2	A
CUTT	052-3	4728.00	13	2	B
CUTT	052-3	4728.00	0	0	Z
CUTT	052-3	4728.00	10	2	C
CUTT	052-3	4728.00	8	1	X
CUTT	052-3	4728.00	0	0	D
CUTT	052-3	4728.00	28	3	E
CUTT	052-3	4728.00	3	0	F
CUTT	052-3	4728.00	2	1	G
CUTT	052-3	4728.00	7	1	H
CUTT	052-3	4728.00	0	0	I
CUTT	052-3	4728.00	15	1	J
CUTT	052-3	4728.00	7	1	K
CUTT	052-3	4728.00	0	0	L
CUTT	052-3	4728.00	0	0	M

Table 14: Triterpanes from GCMS for well NOCS 6506/12-6

Type	Sample	Depth	Area	Height	Peak I.D.
CUTT	053-6	4737.00	7	2	P
CUTT	053-6	4737.00	4	1	Q
CUTT	053-6	4737.00	4	1	R
CUTT	053-6	4737.00	22	4	S
CUTT	053-6	4737.00	3	0	T
CUTT	053-6	4737.00	19	3	A
CUTT	053-6	4737.00	32	6	B
CUTT	053-6	4737.00	0	0	Z
CUTT	053-6	4737.00	4	1	C
CUTT	053-6	4737.00	61	8	X
CUTT	053-6	4737.00	21	2	D
CUTT	053-6	4737.00	13	2	E
CUTT	053-6	4737.00	4	0	F
CUTT	053-6	4737.00	3	0	G
CUTT	053-6	4737.00	2	0	H
CUTT	053-6	4737.00	0	0	I
CUTT	053-6	4737.00	0	0	J
CUTT	053-6	4737.00	0	0	K
CUTT	053-6	4737.00	0	0	L
CUTT	053-6	4737.00	0	0	M

U-509

	KJELLER	HALDEN	AVAILABILITY
ADDRESS	N-2007 Kjeller, Norway	N-1751 Halden, Norway	
TELEPHONE	+47 2 712560 - 713560	+47 31 83100	Private
TELEX	74 573 energ n	76 335 energ n	Confidential
TELEFAX	+47 2 715553		

REPORT TYPE		
	REPORT NO. IFE/KR/F-86/109	DATE 1986-09-18
	REPORT TITLE REPORT ON STABLE ISOTOPES ($\delta^{13}C$, δD, $\delta^{18}O$) ON NATURAL GASES FROM WELL 6506/12-6	DATE OF LAST REV. REV. NO.
	CLIENT Statoil	NUMBER OF PAGES 5
	CLIENT REF. T 6269 no. 78	NUMBER OF ISSUES 15

SUMMARY

The gas components C_1-C_4 and CO_2 have been separated from natural gases of well 6506/12-6, and the $\delta^{13}C$ values of these components have been measured. The isotopic composition of hydrogen from CH_4 has also been measured.

DISTRIBUTION

Statoil (10)
Andresen, B.
Brevik, E.M.
Råheim, A.

KEYWORDS

	NAME	DATE	SIGNATURE
PREPARED BY	Bjørg Andresen Einar M. Brevik	1986-09-18 1986-09-18	Bjørg Andresen Einar M. Brevik
REVIEWED BY	Arne Råheim	1986-09-18	Arne Råheim
APPROVED BY			

1. INTRODUCTION

Two gas samples from well 6506/12-6, DST1 and DST 3, were received and analysed during August/September 1986.

On the samples C_1-C_4 and CO_2 are quantified, and the $\delta^{13}C$ value is measured on methane, ethane, propane, the butanes and CO_2. The δD value is also measured on methane.

2. ANALYTICAL PROCEDURE

The natural gases have been quantified and separated into the different gas components by a Carlo-Erba 4200 instrument. This gas chromatograph is equipped with a special injection loop in order to concentrate the samples, in the case of low concentration of the gas components. The hydrocarbon gas components were oxidized in separate CuO-ovens in order to prevent cross contamination. The combustion products CO_2 and H_2O were frozen into collection vessels and separated.

The water was reduced with zinc metal in a sealed tube to prepare hydrogen for isotopic analysis. The isotopic measurements were performed on a Finnigan Mat 251 and Finnigan Mat delta mass spectrometer. Our $\delta^{13}C$ value on NBS22 is -29.77 $\pm$ .06 o/oo PDB.

3. RESULTS

The volume composition of the samples are given in Table 1. The results have been normalized to 100%. The stable isotope results are given in Table 2.

Our uncertainty on the $\delta^{13}C$ value is estimated to be $\pm$ 0.3 o/oo and includes all the different analysis step. The uncertainty on the δD value is likewise estimated to be $\pm$ 5 o/oo.

Table 1 Volume composition of gas samples from well 6506/12-6

Sample	IFE no.	C_1 %	C_2 %	C_3 %	i-C_4 %	n-C_4 %	CO_2 %	ΣC_1-C_4	$\frac{\Sigma C_2\text{-}C_4}{\Sigma C_1\text{-}C_4}$	$\frac{\text{i-}C_4}{\text{n-}C_4}$
DST 1 4514-4525 m RKB 84B00406	5226	76.5	10.2	5.2	0.8	1.5	5.8	94.2	0.19	0.53
DST 3 4312-4352 m RKB 84B00385	5227	83.3	8.0	3.7	0.5	0.9	3.6	96.4	0.14	0.56

Table 2 Isotopic composition of gas samples from well 6506/12-6

Sample	IFE	C_1		C_2	C_3	i-C_4	n-C_4	CO_2	
	no.	$\delta^{13}C$ PDB	δD SMOW	$\delta^{13}C$ PDB	$\delta^{13}C$ PDB	$\delta^{13}C$ PDB	$\delta^{13}C$ PDB	$\delta^{13}C$ PDB	$\delta^{18}O$ PDB
DST 1 4514-4525 m RKB 84B00406	5226	-44.8	-174	-30.8	-29.8	-28.7	-30.0	-10.0	- 8.7
DST 3 4312-4352 m RKB 84B00385	5227	-44.5	-170	-30.4	-29.7	-29.0	-30.2	-13.9	-17.0

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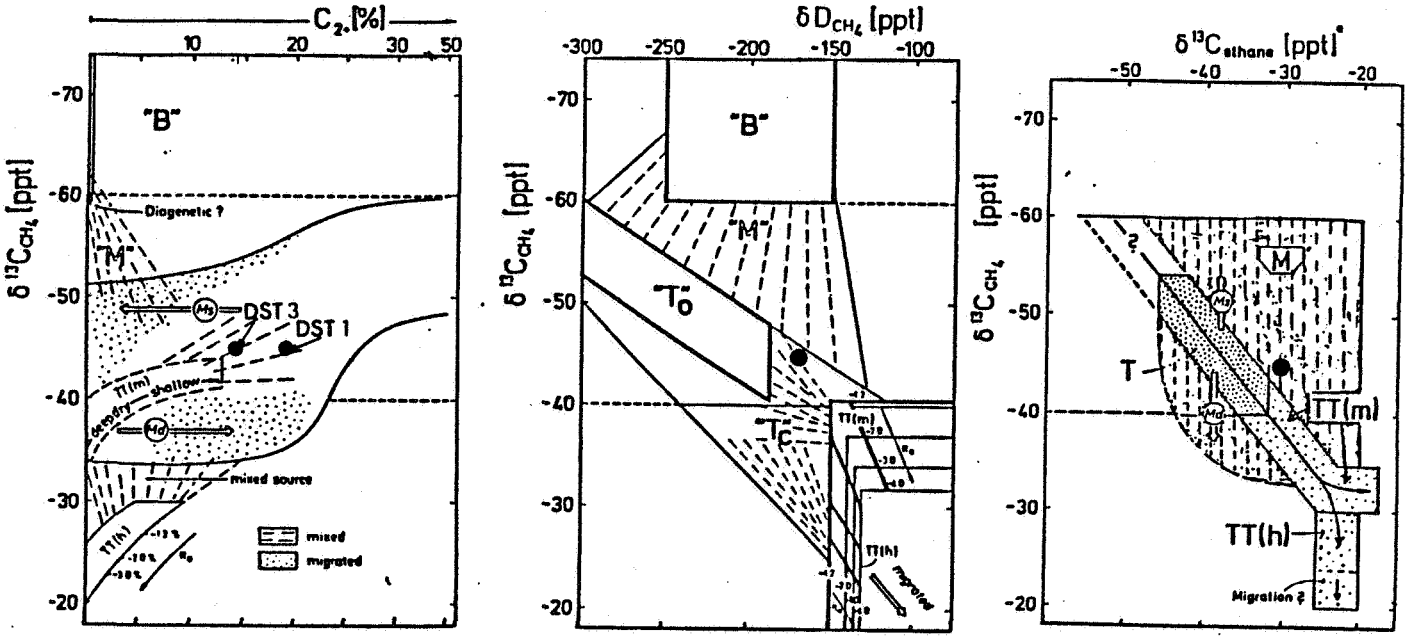

Figure 2a

Variations of molecular composition in natural gases related to the isotope variations of methane.

Figure 2b

Carbon and hydrogen isotope variations in methanes.

Figure 2c

Carbon isotope variations in ethane related to carbon isotope variations in methane.

The principle for the genetic characterization of natural gases is that the primary gases (B-biogenic gas, T-associated gas, TT-non-associated gas) are defined by fields of compositional variations. These primary gases may become mixed and form various mixtures "M" of intermediate composition. "TT(m)" and "TT(h)" are non-associated gases from marine source rocks and coal gases from N.W. Germany, respectively, compositional shifts due to migration are indicated by arrows Md (deep migration) and Ms (shallow migration), respectively. "T_o" are gases associated with petroleum in an initial phase of formation. "T_c" are gases associated with condensates. (Schoell 1983).