

Table 7 Vitrinite reflectance data

Well
6506/12-9S

IFE no.	Depth, mRKB	Sample type	Lithology	%Rm	Std. dev.	N	Quality	Preparation
ST 1448	4185	swc	claystone	1.09	0.10	21	P	bulk
ST 1449	4190	cuttings	claystone	1.03	0.10	19	P	bulk
ST 1450	4679.9	core	sandstone	0.99	0.07	7	X	bulk
ST 1451	4466.5	core	claystone	1.32	0.15	27	M	bulk
ST 1452	4638.5	core	claystone	1.45	0.20	36	P	bulk
ST 1453	4723.4	core	claystone	1.40	0.17	27	P	bulk
ST 1454	4764.9	core	claystone	1.41	0.08	22	P	bulk
ST 1455	4819.5	core	claystone	1.62	0.36	26	P	bulk

G	Good quality	P	Poor quality	A	Mud additive	HF	HF-treated
M	Moderate quality	X	Not vitrinite	Barren	Barren of vitrinite	Bulk	Bulk rock

Table 8 a: Weight of EOM and Chromatographic Fraction for well NOCS 6506/12-9S

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
2290.00	cut	Sh/Clst: m gy	9.7	89.9	2.2	1.8	2.7	83.3	4.0	86.0	1.05	0032-1L
2620.00	cut	Sh/Clst: m gy	5.5	58.8	1.9	1.9	1.2	53.7	3.9	54.9	1.06	0035-1L
3391.00	cut	Sh/Clst: drk gy to gy blk	7.6	75.1	2.0	4.5	3.5	65.1	6.5	68.7	1.02	0037-1L
3400.00	cut	S/Sst : w	3.2	5.9	1.6	1.6	0.7	2.0	3.3	2.7	0.19	0038-3L
3420.00	cut	Sh/Clst: drk gy to gy blk	9.1	97.9	4.0	4.6	6.8	82.5	8.6	89.3	1.16	0040-1L
3837.00	swc	S/Sst : lt gy	3.5	24.0	4.1	2.5	1.2	16.2	6.6	17.3	0.67	0001-1L
4130.00	swc	Sh/Clst: brn blk	2.3	17.9	2.2	2.0	1.6	12.0	4.2	13.7	1.36	0002-1L
4171.00	swc	Sh/Clst: brn blk	4.0	58.5	18.8	16.4	8.7	14.6	35.2	23.3	8.09	0004-1L
4180.00	cut	Sh/Clst: brn blk	5.3	54.8	6.4	18.5	6.4	23.4	25.0	29.9	5.56	0050-4L
4193.00	swc	Sh/Clst: dsk y brn	2.2	31.8	9.7	7.9	4.7	9.5	17.6	14.2	7.57	0005-1L
4198.00	swc	Sh/Clst: dsk y brn	2.8	28.4	5.5	7.1	8.4	7.5	12.6	15.9	7.39	0006-1L
4207.50	swc	Sh/Clst: dsk y brn	3.1	21.0	3.5	3.3	4.1	10.0	6.9	14.1	3.35	0007-1L
4431.70	ccp	S/Sst : lt gy	9.1	12.5	6.9	2.3	1.1	2.3	9.2	3.3	0.27	0010-1L
4468.40	ccp	Sh/Clst: drk brn gy	7.1	15.0	2.0	2.9	7.6	2.6	4.9	10.1	3.50	0011-1L

Table 8 a: Weight of EOM and Chromatographic Fraction for well NOCS 6506/12-9S

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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
4473.79	ccp	S/Sst : lt gy	8.2	10.9	6.3	2.0	1.0	1.7	8.3	2.6	0.26	0012-1L
4510.00	oil	DST 5	-	48.0	37.7	9.4	0.4	0.5	47.1	0.8	-	0060-0B
4751.00	oil	DST 3	-	68.2	49.3	15.1	1.7	2.0	64.5	3.7	-	0059-0B
4751.45	ccp	S/Sst : lt gy to m brn gy	8.5	17.9	9.4	3.1	2.9	2.4	12.5	5.3	0.55	0023-1L
4762.47	ccp	S/Sst : lt gy to lt brn gy	8.9	28.5	17.0	5.4	2.0	4.1	22.5	6.1	0.38	0024-1L
4767.31	ccp	Sh/Clst: brn blk	7.0	18.1	5.9	3.2	6.4	2.7	9.1	9.1	2.39	0025-1L
4816.65	ccp	S/Sst : lt gy	8.4	25.3	10.7	4.1	2.0	8.7	14.7	10.6	0.65	0027-1L
4834.00	oil	DST 2	-	73.0	51.5	17.7	1.6	2.3	69.2	3.8	-	0058-0B
4844.62	ccp	S/Sst : lt gy to m gy	10.1	19.7	11.4	3.4	1.1	3.9	14.8	5.0	0.28	0030-1L
4876.40	oil	DST 1	-	58.6	44.3	12.9	0.7	0.8	57.2	1.5	-	0057-0B

Table 8 b: Concentration of EOM and Chromatographic Fraction (wt ppm rock) for well NOCS 6506/12-9S

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
2290.00	cut	Sh/Clst: m gy	9282	222	185	273	8600	408	8874	0032-1L
2620.00	cut	Sh/Clst: m gy	10760	355	355	216	9833	710	10049	0035-1L
3391.00	cut	Sh/Clst: drk gy to gy blk	9860	257	591	463	8548	849	9011	0037-1L
3400.00	cut	S/Sst : w	1859	515	515	218	609	1031	828	0038-3L
3420.00	cut	Sh/Clst: drk gy to gy blk	10747	439	507	743	9058	946	9801	0040-1L
3837.00	swc	S/Sst : lt gy	6784	1158	716	331	4577	1875	4909	0001-1L
4130.00	swc	Sh/Clst: brn blk	7876	973	885	709	5308	1859	6017	0002-1L
4171.00	swc	Sh/Clst: brn blk	14802	4756	4151	2207	3686	8908	5893	0004-1L
4180.00	cut	Sh/Clst: brn blk	10285	1206	3476	1206	4395	4682	5602	0050-4L
4193.00	swc	Sh/Clst: dsk y brn	14731	4481	3680	2189	4379	8162	6569	0005-1L
4198.00	swc	Sh/Clst: dsk y brn	10049	1954	2494	2968	2632	4448	5600	0006-1L
4207.50	swc	Sh/Clst: dsk y brn	6696	1127	1067	1303	3198	2194	4501	0007-1L
4431.70	ccp	S/Sst : lt gy	1369	755	246	120	246	1002	366	0010-1L
4468.40	ccp	Sh/Clst: drk brn gy	2119	283	411	1064	359	695	1424	0011-1L

Table 8 b: Concentration of EOM and Chromatographic Fraction (wt ppm rock) for well NOCS 6506/12-9S

Depth unit of measure: m

Depth	Typ Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
4473.79	ccp S/Sst : lt gy	1327	767	237	121	200	1004	322	0012-1L
4510.00	oil DST 5	-	-	-	-	-	-	-	0060-0B
4751.00	oil DST 3	-	-	-	-	-	-	-	0059-0B
4751.45	ccp S/Sst : lt gy to m brn gy	2109	1115	363	345	284	1479	630	0023-1L
4762.47	ccp S/Sst : lt gy to lt brn gy	3191	1904	609	220	456	2514	676	0024-1L
4767.31	ccp Sh/Clst: brn blk	2576	832	455	911	376	1288	1288	0025-1L
4816.65	ccp S/Sst : lt gy	3022	1273	483	233	1032	1756	1266	0027-1L
4834.00	oil DST 2	-	-	-	-	-	-	-	0058-0B
4844.62	ccp S/Sst : lt gy to m gy	1949	1123	333	105	386	1457	492	0030-1L
4876.40	oil DST 1	-	-	-	-	-	-	-	0057-0B

Table 8 c: Concentration of EOM and Chromatographic Fraction (mg/g TOC(e)) for well NOCS 6506/12-9S

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
2290.00	cut	Sh/Clst: m gy	884.07	21.23	17.69	26.05	819.11	38.92	845.15	0032-1L
2620.00	cut	Sh/Clst: m gy	1015.10	33.52	33.52	20.39	927.67	67.04	948.06	0035-1L
3391.00	cut	Sh/Clst: drk gy to gy blk	966.75	25.22	58.03	45.42	838.09	83.24	883.51	0037-1L
3400.00	cut	S/Sst : w	978.62	271.38	271.38	115.13	320.72	542.76	435.86	0038-3L
3420.00	cut	Sh/Clst: drk gy to gy blk	926.51	37.85	43.72	64.06	780.88	81.57	844.94	0040-1L
3837.00	swc	S/Sst : lt gy	1012.64	172.93	106.97	49.47	683.27	279.90	732.74	0001-1L
4130.00	swc	Sh/Clst: brn blk	579.17	71.59	65.11	52.15	390.32	136.69	442.47	0002-1L
4171.00	swc	Sh/Clst: brn blk	182.97	58.80	51.32	27.29	45.56	110.12	72.85	0004-1L
4180.00	cut	Sh/Clst: brn blk	184.99	21.70	62.53	21.70	79.06	84.23	100.76	0050-4L
4193.00	swc	Sh/Clst: dsk y brn	194.60	59.20	48.62	28.93	57.86	107.82	86.78	0005-1L
4198.00	swc	Sh/Clst: dsk y brn	135.99	26.44	33.76	40.17	35.62	60.20	75.79	0006-1L
4207.50	swc	Sh/Clst: dsk y brn	199.90	33.67	31.85	38.91	95.47	65.52	134.38	0007-1L
4431.70	ccp	S/Sst : lt gy	507.08	279.91	91.27	44.62	91.27	371.18	135.90	0010-1L
4468.40	ccp	Sh/Clst: drk brn gy	60.57	8.10	11.77	30.43	10.28	19.87	40.70	0011-1L

Table 8 c: Concentration of EOM and Chromatographic Fraction (mg/g TOC(e)) for well NOCS 6506/12-9S

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
4473.79	ccp	S/Sst : lt gy	510.63	295.14	91.35	46.85	77.30	386.49	124.15	0012-1L
4510.00	oil	DST 5	-	-	-	-	-	-	-	0060-0B
4751.00	oil	DST 3	-	-	-	-	-	-	-	0059-0B
4751.45	ccp	S/Sst : lt gy to m brn gy	383.60	202.85	66.12	62.90	51.73	268.97	114.63	0023-1L
4762.47	ccp	S/Sst : lt gy to lt brn gy	839.81	501.30	160.43	57.99	120.10	661.72	178.09	0024-1L
4767.31	ccp	Sh/Clst: brn blk	107.81	34.83	19.08	38.16	15.75	53.91	53.91	0025-1L
4816.65	ccp	S/Sst : lt gy	465.03	195.89	74.35	35.98	158.80	270.24	194.79	0027-1L
4834.00	oil	DST 2	-	-	-	-	-	-	-	0058-0B
4844.62	ccp	S/Sst : lt gy to m gy	696.29	401.26	119.28	37.76	137.99	520.54	175.75	0030-1L
4876.40	oil	DST 1	-	-	-	-	-	-	-	0057-0B

Table 8 d: Composition of material extracted from the rock (%) for well NOCS 6506/12-9S

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Depth unit of measure: m

Depth	Typ	Lithology	Sat	Aro	Asph	NSO	HC	Non-HC	Sat	HC	Sample
			EOM	EOM	EOM	EOM	EOM	EOM	EOM	Aro	
2290.00	cut	Sh/Clst: m gy	2.40	2.00	2.95	92.65	4.40	95.60	120.00	4.61	0032-1L
2620.00	cut	Sh/Clst: m gy	3.30	3.30	2.01	91.39	6.60	93.40	100.00	7.07	0035-1L
3391.00	cut	Sh/Clst: drk gy to gy blk	2.61	6.00	4.70	86.69	8.61	91.39	43.46	9.42	0037-1L
3400.00	cut	S/Sst : w	27.73	27.73	11.76	32.77	55.46	44.54	100.00	124.53	0038-3L
3420.00	cut	Sh/Clst: drk gy to gy blk	4.09	4.72	6.91	84.28	8.80	91.20	86.58	9.65	0040-1L
3837.00	swc	S/Sst : lt gy	17.08	10.56	4.89	67.47	27.64	72.36	161.66	38.20	0001-1L
4130.00	swc	Sh/Clst: brn blk	12.36	11.24	9.00	67.39	23.60	76.40	109.95	30.89	0002-1L
4171.00	swc	Sh/Clst: brn blk	32.14	28.05	14.91	24.90	60.18	39.82	114.57	151.16	0004-1L
4180.00	cut	Sh/Clst: brn blk	11.73	33.80	11.73	42.74	45.53	54.47	34.70	83.59	0050-4L
4193.00	swc	Sh/Clst: dsk y brn	30.42	24.98	14.86	29.73	55.41	44.59	121.76	124.24	0005-1L
4198.00	swc	Sh/Clst: dsk y brn	19.44	24.82	29.54	26.20	44.27	55.73	78.33	79.43	0006-1L
4207.50	swc	Sh/Clst: dsk y brn	16.84	15.94	19.47	47.76	32.78	67.22	105.69	48.76	0007-1L
4431.70	ccp	S/Sst : lt gy	55.20	18.00	8.80	18.00	73.20	26.80	306.67	273.13	0010-1L
4468.40	ccp	Sh/Clst: drk brn gy	13.37	19.43	50.23	16.97	32.80	67.20	68.84	48.81	0011-1L

Table 8 d: Composition of material extracted from the rock (%) for well NOCS 6506/12-9S

Depth unit of measure: m

Depth	Typ	Lithology	Sat	Aro	Asph	NSO	HC	Non-HC	Sat	HC	Sample
			EOM	EOM	EOM	EOM	EOM	EOM	EOM	Aro	
4473.79	ccp	S/Sst : lt gy	57.80	17.89	9.17	15.14	75.69	24.31	323.08	311.32	0012-1L
4510.00	oil	DST 5	78.52	19.71	0.83	0.94	98.23	1.77	398.41	5541.19	0060-0B
4751.00	oil	DST 3	72.41	22.23	2.49	2.86	94.64	5.36	325.74	1767.12	0059-0B
4751.45	ccp	S/Sst : lt gy to m brn gy	52.88	17.24	16.40	13.49	70.12	29.88	306.82	234.64	0023-1L
4762.47	ccp	S/Sst : lt gy to lt brn gy	59.69	19.10	6.91	14.30	78.79	21.21	312.48	371.57	0024-1L
4767.31	ccp	Sh/Clst: brn blk	32.30	17.70	35.39	14.61	50.00	50.00	182.55	100.00	0025-1L
4816.65	ccp	S/Sst : lt gy	42.12	15.99	7.74	34.15	58.11	41.89	263.46	138.74	0027-1L
4834.00	oil	DST 2	70.48	24.25	2.19	3.08	94.73	5.27	290.68	1796.10	0058-0B
4844.62	ccp	S/Sst : lt gy to m gy	57.63	17.13	5.42	19.82	74.76	25.24	336.39	296.18	0030-1L
4876.40	oil	DST 1	75.51	22.01	1.19	1.28	97.53	2.47	343.02	3941.39	0057-0B

Table 9

LIGHT HYDROCARBONS FROM WHOLE OILS GC FOR WELL NOCS 6506/12-9S

Compounds	Percentage			
	DTS1	DST2	DST3	DST5
2,3 DMC ₄	1.07	1.03	1.11	0.92
nC ₆	5.89	4.96	5.56	5.67
MSC ₅	3.28	3.12	3.36	2.99
Benzene	7.32	4.96	7.06	7.04
SC ₆	0	2.88	0	0
2MC ₆	2.30	2.00	2.14	2.59
3 MC ₆	1.89	1.65	1.78	2.23
1C3DMSC ₅	0.67	0.63	0.66	0.75
1T3DMSC ₅	0.65	0.61	0.64	0.73
1T2DMSC ₅	1.18	1.05	1.20	1.46
nC ₇	5.49	4.78	5.40	6.30
MSC ₆	9.30	9.58	9.32	9.03
Toluene	9.41	10.23	7.21	9.81
nC ₈	5.06	4.76	5.32	5.98
M+P xylene	1.41	1.40	0.89	1.97

Table 10 Saturated Hydrocarbon Ratios for well NOCS 6506/12-9S

Depth unit of measure: m			Pristane	Pristane	Pristane/nC17	Phytane		nC17	
Depth	Typ	Lithology	nC17	Phytane	Phytane/nC18	nC18	CPI1	nC17+nC27	Sample
2290.00	cut	Sh/Clst: m gy	0.66	0.77	0.81	0.82	1.13	0.84	0032-1L
2620.00	cut	Sh/Clst: m gy	0.62	2.22	1.62	0.38	1.38	0.85	0035-1L
3391.00	cut	Sh/Clst: drk gy to gy blk	1.69	3.24	2.56	0.66	1.10	0.75	0037-1L
3400.00	cut	S/Sst : w	0.71	0.90	1.31	0.54	1.06	0.52	0038-3L
3420.00	cut	Sh/Clst: drk gy to gy blk	1.61	3.87	3.42	0.47	1.50	0.67	0040-1L
3837.00	swc	S/Sst : lt gy	0.66	1.40	1.39	0.47	1.04	0.84	0001-1L
4130.00	swc	Sh/Clst: brn blk	0.64	1.60	1.59	0.40	1.10	0.81	0002-1L
4171.00	swc	Sh/Clst: brn blk	0.53	1.09	0.94	0.57	1.03	0.88	0004-1L
4180.00	cut	Sh/Clst: brn blk	0.66	1.13	1.04	0.63	1.01	0.87	0050-4L
4193.00	swc	Sh/Clst: dsk y brn	0.54	1.11	0.94	0.57	1.02	0.88	0005-1L
4198.00	swc	Sh/Clst: dsk y brn	0.39	1.20	1.01	0.39	1.10	0.90	0006-1L
4207.50	swc	Sh/Clst: dsk y brn	0.50	1.74	1.59	0.31	1.10	0.83	0007-1L
4431.70	ccp	S/Sst : lt gy	0.56	1.40	1.23	0.46	1.05	0.83	0010-1L
4468.40	ccp	Sh/Clst: drk brn gy	0.56	2.74	2.38	0.23	1.03	0.85	0011-1L
4473.79	ccp	S/Sst : lt gy	0.62	1.42	1.30	0.48	1.08	0.85	0012-1L

Table 10 Saturated Hydrocarbon Ratios for well NOCS 6506/12-9S

Depth unit of measure: m

Depth	Typ	Lithology	Pristane	Pristane	Pristane/nC17	Phytane	CPI1	nC17	Sample
			nC17	Phytane	Phytane/nC18	nC18		nC17+nC27	
4510.00	oil	DST 5	0.62	1.50	1.38	0.45	1.07	0.80	0060-0B
4751.00	oil	DST 3	0.52	1.38	1.32	0.39	1.06	0.76	0059-0B
4751.45	ccp	S/Sst : lt gy to m brn gy	0.61	1.24	1.23	0.50	1.08	0.76	0023-1L
4762.47	ccp	S/Sst : lt gy to lt brn gy	0.55	1.11	1.28	0.43	1.04	0.71	0024-1L
4767.31	ccp	Sh/Clst: brn blk	0.21	1.97	2.36	0.09	1.15	0.68	0025-1L
4816.65	ccp	S/Sst : lt gy	0.41	1.32	1.37	0.30	1.07	0.70	0027-1L
4834.00	oil	DST 2	0.58	1.41	1.32	0.44	1.08	0.78	0058-0B
4844.62	ccp	S/Sst : lt gy to m gy	0.61	1.37	1.40	0.43	1.05	0.76	0030-1L
4876.40	oil	DST 1	0.69	1.54	1.36	0.51	1.06	0.86	0057-0B

Table 11a Aromatic Hydrocarbon Ratios for well NOCS 6506/12-9S

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Depth unit of measure: m

Depth	Typ	Lithology	MNR	DMNR	BPhR	2/1MP	MPI1	MPI2	Rc	DBT/P	4/1MDBT (3+2) /1MDBT	Sample
2290.00	cut	Sh/Clst: m gy	-	1.68	-	1.28	0.94	1.05	0.96	-	-	0032-1L
2620.00	cut	Sh/Clst: m gy	-	0.94	-	0.78	0.58	0.48	0.75	-	-	0035-1L
3391.00	cut	Sh/Clst: drk gy to gy blk	1.23	2.05	0.08	1.04	0.58	0.63	0.75	-	-	0037-1L
3400.00	cut	S/Sst : w	-	-	-	0.68	0.72	0.69	0.83	-	-	0038-3L
3420.00	cut	Sh/Clst: drk gy to gy blk	1.04	1.92	0.06	1.03	0.58	0.64	0.75	-	-	0040-1L
3837.00	swc	S/Sst : lt gy	0.84	1.57	0.33	0.69	0.49	0.45	0.69	-	-	0001-1L
4130.00	swc	Sh/Clst: brn blk	-	1.84	0.44	1.00	0.70	0.76	0.82	0.09	-	0002-1L
4171.00	swc	Sh/Clst: brn blk	1.07	2.32	0.53	0.88	0.66	0.69	0.80	0.16	22.85	2.17 0004-1L
4180.00	cut	Sh/Clst: brn blk	1.14	2.30	0.51	0.77	0.61	0.60	0.77	0.14	15.59	1.84 0050-4L
4193.00	swc	Sh/Clst: dsk y brn	1.06	2.48	0.58	0.90	0.67	0.72	0.80	0.15	20.81	2.28 0005-1L
4198.00	swc	Sh/Clst: dsk y brn	1.03	2.59	0.60	0.78	0.63	0.63	0.78	0.11	22.63	2.58 0006-1L
4207.50	swc	Sh/Clst: dsk y brn	1.30	3.74	0.48	1.07	0.67	0.76	0.80	0.19	21.33	4.02 0007-1L
4431.70	ccp	S/Sst : lt gy	1.13	2.18	0.28	1.20	0.69	0.81	0.81	0.13	11.15	1.61 0010-1L
4468.40	ccp	Sh/Clst: drk brn gy	1.76	7.09	0.58	1.71	0.78	0.87	0.87	0.06	33.16	8.45 0011-1L
4473.79	ccp	S/Sst : lt gy	1.56	2.90	0.21	1.45	0.84	0.98	0.90	0.20	15.73	2.44 0012-1L
4510.00	oil	DST 5	2.14	5.29	0.61	1.68	0.85	1.06	0.91	0.15	25.37	6.17 0060-0B

Depth unit of measure: m

Depth	Typ	Lithology	MNR	DMNR	BPhR	2/1MP	MPI1	MPI2	Rc	DBT/P	4/1MDBT (3+2) /1MDBT	Sample	
4751.00	oil	DST 3	2.07	5.87	0.57	1.41	0.77	0.86	0.86	0.15	9.32	2.80	0059-0B
4751.45	ccp	S/Sst : lt gy to m brn gy	1.55	3.68	0.28	1.36	0.84	0.96	0.90	0.19	10.96	3.64	0023-1L
4762.47	ccp	S/Sst : lt gy to lt brn gy	1.47	3.30	0.25	1.20	0.78	0.89	0.87	0.30	6.03	2.12	0024-1L
4767.31	ccp	Sh/Clst: brn blk	2.05	9.01	0.54	1.83	1.02	1.05	1.01	0.06	-	-	0025-1L
4816.65	ccp	S/Sst : lt gy	1.85	3.94	0.47	1.30	0.76	0.88	0.86	0.10	9.69	2.66	0027-1L
4834.00	oil	DST 2	2.01	5.69	0.33	1.59	0.77	0.87	0.86	0.18	14.47	4.94	0058-0B
4844.62	ccp	S/Sst : lt gy to m gy	1.49	3.85	0.36	1.55	0.89	1.07	0.93	0.20	24.56	5.41	0030-1L
4876.40	oil	DST 1	1.89	5.13	0.52	1.64	0.81	0.94	0.89	0.22	14.55	3.32	0057-0B

Table 11b Aromatic Hydrocarbon Ratios for well NOCS 6506/12-9S

Depth unit of measure: m

Depth	Typ	Lithology	F1	F2	Sample
2290.00	cut	Sh/Clst: m gy	0.55	0.31	0032-1L
2620.00	cut	Sh/Clst: m gy	0.44	0.18	0035-1L
3391.00	cut	Sh/Clst: drk gy to gy blk	0.43	0.24	0037-1L
3400.00	cut	S/Sst : w	0.45	0.22	0038-3L
3420.00	cut	Sh/Clst: drk gy to gy blk	0.43	0.24	0040-1L
3837.00	swc	S/Sst : lt gy	0.41	0.19	0001-1L
4130.00	swc	Sh/Clst: brn blk	0.45	0.24	0002-1L
4171.00	swc	Sh/Clst: brn blk	0.39	0.20	0004-1L
4180.00	cut	Sh/Clst: brn blk	0.37	0.18	0050-4L
4193.00	swc	Sh/Clst: dsk y brn	0.39	0.21	0005-1L
4198.00	swc	Sh/Clst: dsk y brn	0.38	0.19	0006-1L
4207.50	swc	Sh/Clst: dsk y brn	0.43	0.24	0007-1L
4431.70	ccp	S/Sst : lt gy	0.47	0.27	0010-1L
4468.40	ccp	Sh/Clst: drk brn gy	0.53	0.30	0011-1L
4473.79	ccp	S/Sst : lt gy	0.50	0.29	0012-1L
4510.00	oil	DST 5	0.53	0.33	0060-0B

Table 11b Aromatic Hydrocarbon Ratios for well NOCS 6506/12-9S

Depth unit of measure: m

Depth	Typ	Lithology	F1	F2	Sample
4751.00	oil	DST 3	0.48	0.27	0059-0B
4751.45	ccp	S/Sst : lt gy to m brn gy	0.47	0.27	0023-1L
4762.47	ccp	S/Sst : lt gy to lt brn gy	0.46	0.26	0024-1L
4767.31	ccp	Sh/Clst: brn blk	0.56	0.29	0025-1L
4816.65	ccp	S/Sst : lt gy	0.47	0.28	0027-1L
4834.00	oil	DST 2	0.49	0.28	0058-0B
4844.62	ccp	S/Sst : lt gy to m gy	0.50	0.30	0030-1L
4876.40	oil	DST 1	0.52	0.30	0057-0B

Table 12A: Variation in Triterpane Distribution (peak height) SIR for Well NOCS 6506/12-9S

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Depth unit of measure: m

Depth	Lithology	Ratio1	Ratio2	Ratio3	Ratio4	Ratio5	Ratio6	Ratio7	Ratio8	Ratio9	Rat.10	Rat.11	Rat.12	Rat.13	Rat.14	Sample
2290.00	Sh/Clst	2.64	0.73	0.25	0.54	0.35	-	0.24	0.45	0.20	0.25	0.75	0.38	0.39	54.62	0032-1
3391.00	Sh/Clst	4.12	0.80	0.27	0.71	0.42	0.04	0.17	0.24	0.14	0.20	0.80	0.45	0.32	51.65	0037-1
3420.00	Sh/Clst	4.58	0.82	0.23	0.72	0.42	0.04	0.14	0.20	0.13	0.03	0.83	0.44	0.24	52.80	0040-1
3837.00	S/Sst	0.51	0.34	0.22	0.70	0.41	0.20	0.12	0.18	0.11	0.59	0.89	0.42	0.14	61.26	0001-1
4130.00	Sh/Clst	1.08	0.52	0.25	0.71	0.42	0.18	0.08	0.11	0.07	0.33	0.89	0.42	0.13	59.07	0002-1
4171.00	Sh/Clst	0.13	0.12	0.17	0.33	0.25	0.48	-	-	-	0.88	1.00	0.25	-	61.20	0004-1
4193.00	Sh/Clst	0.11	0.10	0.16	0.34	0.25	0.66	-	-	-	0.83	1.00	0.25	-	58.08	0005-1
4198.00	Sh/Clst	0.19	0.16	0.28	0.74	0.42	0.73	-	-	-	0.95	0.91	0.44	0.13	54.88	0006-1
4431.70	S/Sst	0.37	0.27	0.24	0.60	0.37	0.35	0.32	0.54	0.24	1.17	0.92	0.35	0.06	63.07	0010-1
4468.40	Sh/Clst	1.01	0.50	0.22	0.57	0.36	0.33	0.09	0.15	0.08	0.52	0.90	0.38	0.14	60.93	0011-1
4473.79	S/Sst	0.25	0.20	0.20	0.56	0.36	0.35	0.17	0.30	0.14	1.25	0.92	0.37	0.12	63.21	0012-1
4510.00	oil DST 5		0.22	0.16	0.46	0.31	0.32	0.13	0.27	0.11	0.75	0.92	0.30	0.06	62.16	0060-0
4751.00	oil DST 3		0.16	0.23	0.56	0.36	0.90	0.35	0.63	0.26	1.18	1.00	0.36	-	63.38	0059-0
4816.65	S/Sst	0.22	0.18	0.31	0.64	0.39	0.93	0.32	0.51	0.24	2.08	1.00	0.39	-	61.72	0027-1
4834.00	oil DST 2	0.25	0.20	0.30	0.69	0.41	0.98	0.37	0.54	0.27	1.26	1.00	0.41	-	63.58	0058-0

Depth unit of measure: m

Depth	Lithology	Ratio1	Ratio2	Ratio3	Ratio4	Ratio5	Ratio6	Ratio7	Ratio8	Ratio9	Rat.10	Rat.11	Rat.12	Rat.13	Rat.14	Sample
4844.62	S/Sst	0.16	0.14	0.36	0.74	0.42	2.04	0.44	0.60	0.31	5.45	1.00	0.42	-	-	0030-1
4876.40	oil DST 1	-	-	-	-	-	2.86	-	-	-	4.48	1.00	-	-	-	0057-0

List of Terpane Distribution Ratios

Ratio 1: $27Tm / 27Ts$

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

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

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

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

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

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

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

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

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

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

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

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

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

Table 12B: Variation in Sterane Distribution (peak height) SIR for Well NOCS 6506/12-9S

Depth unit of measure: m

Depth	Lithology	Ratio1	Ratio2	Ratio3	Ratio4	Ratio5	Ratio6	Ratio7	Ratio8	Ratio9	Ratio10	Sample
2290.00	Sh/Clst	0.03	3.49	37.06	0.63	0.89	0.09	0.07	0.23	0.04	0.31	0032-1
3391.00	Sh/Clst	0.64	16.75	50.94	1.81	0.76	0.70	0.60	0.34	0.20	0.62	0037-1
3420.00	Sh/Clst	0.53	19.22	43.59	1.41	0.67	0.40	0.30	0.28	0.24	0.48	0040-1
3837.00	S/Sst	0.80	37.20	70.14	2.11	0.76	0.57	0.43	0.54	0.59	1.87	0001-1
4130.00	Sh/Clst	0.82	44.00	74.98	2.10	0.77	0.69	0.56	0.60	0.79	2.68	0002-1
4171.00	Sh/Clst	0.90	52.79	79.13	2.41	0.78	0.78	0.63	0.65	1.12	4.01	0004-1
4193.00	Sh/Clst	0.92	61.64	74.99	2.43	0.71	0.79	0.63	0.60	1.61	3.91	0005-1
4198.00	Sh/Clst	0.90	56.90	76.72	2.82	0.74	0.78	0.64	0.62	1.32	3.82	0006-1
4431.70	S/Sst	0.87	55.53	78.09	1.73	0.76	0.69	0.54	0.64	1.25	4.01	0010-1
4468.40	Sh/Clst	0.58	40.27	77.75	0.94	0.81	0.45	0.37	0.64	0.67	2.92	0011-1
4473.79	S/Sst	0.88	52.74	80.49	1.82	0.80	0.73	0.56	0.67	1.12	4.37	0012-1
4510.00	oil DST 5	0.89	60.77	81.81	1.81	0.79	0.61	0.45	0.69	1.55	5.73	0060-0
4751.00	oil DST 3	0.88	53.40	78.69	1.59	0.78	0.52	0.39	0.65	1.15	3.96	0059-0
4816.65	S/Sst	0.87	56.32	78.60	1.71	0.77	0.68	0.54	0.65	1.29	4.21	0027-1
4834.00	oil DST 2	0.87	56.91	77.74	1.47	0.75	0.49	0.36	0.64	1.32	4.05	0058-0

Table 12B: Variation in Sterane Distribution (peak height) SIR for Well NOCS 6506/12-9S

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Ratio1</u>	<u>Ratio2</u>	<u>Ratio3</u>	<u>Ratio4</u>	<u>Ratio5</u>	<u>Ratio6</u>	<u>Ratio7</u>	<u>Ratio8</u>	<u>Ratio9</u>	<u>Ratio10</u>	<u>Sample</u>
4844.62	S/Sst	0.90	62.01	78.01	1.85	0.74	0.72	0.58	0.64	1.63	4.67	0030-1
4876.40	oil DST 1	0.89	57.80	78.91	1.66	0.76	0.61	0.47	0.65	1.37	4.43	0057-0

List of Sterane Distribution Ratios

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

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

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

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

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

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

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

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

Ratio 9: $29aaS / 29aaR$

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

Table 12C: Raw triterpane data (peak height) m/z 191 SIR for Well NOCS 6506/12-9S

Depth unit of measure: m

Depth	Lithology	23/3	24/3	25/3	24/4	26/3	27Ts	27Tm	28aβ	25nor30aβ	Sample
		29aβ	29Ts	30d	29βa	300	30aβ	30βa	30G	31aβS	
		31aβR	32aβS	32aβR	33aβS	33aβR	34aβS	34aβR	35aβS	35aβR	
2290.00	Sh/Clst	1989.4 3448.4 1014.8	1627.0 2686.8 796.3	859.9 0.0 661.7	1086.9 1736.0 415.8	577.5 0.0 474.7	1100.9 6389.0 335.1	2905.1 2123.3 290.8	1556.9 0.0 351.1	667.3 827.4 389.8	0032-1
3391.00	Sh/Clst	5234.9 10935.8 4429.6	3049.5 2756.5 1283.3	1186.3 613.3 1201.1	2514.1 4518.9 398.2	461.8 0.0 456.2	1676.3 15360.0 217.5	6908.2 3794.9 280.3	2586.2 0.0 129.0	0.0 5727.9 125.7	0037-1
3420.00	Sh/Clst	1816.3 57220.5 19024.2	2316.4 14649.1 7261.8	0.0 3066.8 6492.0	9871.5 17396.8 2401.5	0.0 0.0 2772.8	6367.7 79324.4 1993.8	29139.4 15979.2 1869.7	11351.2 0.0 947.7	0.0 26049.3 992.2	0040-1
3837.00	S/Sst	6113.3 5421.6 2222.8	4600.9 2862.0 1927.2	1818.7 1525.4 1218.8	2400.5 900.4 1313.8	1264.5 0.0 748.7	4713.2 7771.8 763.2	2425.8 962.6 653.1	969.5 0.0 701.3	851.0 3320.1 494.4	0001-1
4130.00	Sh/Clst	8086.5 9950.8 3712.9	4603.1 3453.5 2777.4	2152.6 2448.9 1924.3	4182.1 1366.3 1315.6	1014.3 0.0 928.9	4743.8 13989.1 647.2	5123.1 1749.8 503.7	1089.2 0.0 509.9	993.6 5086.4 364.8	0002-1

Table 12C: Raw triterpane data (peak height) m/z 191 SIR for Well NOCS 6506/12-9S

Depth unit of measure: m

Depth	Lithology	23/3	24/3	25/3	24/4	26/3	27Ts	27Tm	28aß	25nor30aß	Sample
		29aß	29Ts	30d	29ßa	300	30aß	30ßa	30G	31aßS	
		31aßR	32aßS	32aßR	33aßS	33aßR	34aßS	34aßR	35aßS	35aßR	
4171.00	Sh/Clst	7620.4 2583.5 2000.2	6904.0 4616.6 2380.1	2600.3 3744.0 1508.8	3640.9 0.0 1266.5	1528.0 0.0 922.7	11852.4 7861.6 979.6	1577.6 0.0 740.9	0.0 0.0 764.0	0.0 2927.6 548.8	0004-1
4193.00	Sh/Clst	4432.6 1733.6 1353.9	4295.3 3539.6 1473.8	1688.4 3388.2 1063.6	2885.3 0.0 880.8	1107.8 0.0 608.9	9179.6 5170.4 530.3	975.4 0.0 363.2	0.0 0.0 402.0	0.0 1915.7 279.4	0005-1
4198.00	Sh/Clst	2160.1 1196.9 339.4	1543.3 1084.3 398.1	744.8 1183.7 327.3	1325.9 198.8 275.0	412.7 0.0 151.1	3600.3 1624.0 124.4	683.0 164.8 115.5	0.0 0.0 0.0	0.0 547.1 0.0	0006-1
4431.70	S/Sst	12558.5 3582.3 1459.1	7027.9 3087.0 1489.7	2629.6 2100.3 872.1	4010.0 0.0 955.7	1593.8 0.0 610.6	5544.6 6019.8 495.1	2053.3 546.9 359.3	1943.2 0.0 488.1	697.3 2231.4 409.1	0010-1
4468.40	Sh/Clst	11024.6 6392.6 2936.5	5808.8 2258.2 2720.3	2150.7 3646.8 1744.0	7308.2 1140.9 1762.4	1041.2 0.0 1253.0	3518.1 11155.7 1631.3	3538.8 1232.6 1107.7	976.3 0.0 1446.1	796.6 4341.1 1080.2	0011-1

Table 12C: Raw triterpane data (peak height) m/z 191 SIR for Well NOCS 6506/12-9S

Depth unit of measure: m

Depth	Lithology	23/3	24/3	25/3	24/4	26/3	27Ts	27Tm	28aß	25nor30aß	Sample
		29aß	29Ts	30d	29ßa	300	30aß	30ßa	30G	31aßS	
		31aßR	32aßS	32aßR	33aßS	33aßR	34aßS	34aßR	35aßS	35aßR	
4473.79	S/Sst	6378.3 2242.3 964.6	5011.8 2117.6 928.9	1925.4 1418.0 540.6	2749.4 352.5 540.9	1259.5 0.0 348.7	4416.9 4024.1 263.5	1111.0 373.5 191.5	673.7 0.0 257.3	495.7 1497.0 187.3	0012-1
4510.00	oil DST 5	2989.3 1379.7 639.1	2257.1 1406.3 749.6	929.6 966.0 456.4	1209.5 0.0 522.8	508.6 0.0 271.7	2222.4 3009.5 286.0	626.0 279.0 170.3	377.6 0.0 247.8	0.0 1126.5 140.7	0060-0
4751.00	oil DST 3	3503.5 1263.4 554.3	2686.3 2092.0 574.5	1105.8 2031.4 332.0	1786.2 0.0 525.7	853.1 0.0 182.7	3581.8 2267.3 0.0	685.3 0.0 0.0	798.4 0.0 0.0	0.0 827.6 0.0	0059-0
4816.65	S/Sst	5359.7 1431.8 543.8	4689.4 2276.8 511.6	1717.1 2099.2 317.3	2868.6 0.0 317.8	1178.9 0.0 207.3	4522.7 2252.8 0.0	1007.4 0.0 0.0	724.5 0.0 0.0	621.1 771.7 0.0	0027-1
4834.00	oil DST 2	3521.7 1669.2 569.4	3071.5 2151.0 622.2	1246.5 2367.8 356.4	2120.3 0.0 547.4	857.0 0.0 243.6	4139.2 2428.5 254.2	1023.1 0.0 0.0	894.2 0.0 0.0	0.0 777.7 0.0	0058-0

Depth unit of measure: m

Depth	Lithology	23/3	24/3	25/3	24/4	26/3	27Ts	27Tm	28aß	25nor30aß	Sample
		29aß	29Ts	30d	29ßa	30O	30aß	30ßa	30G	31aßS	
		31aßR	32aßS	32aßR	33aßS	33aßR	34aßS	34aßR	35aßS	35aßR	
4844.62	S/Sst	5509.7	4386.0	1663.5	1566.3	1204.3	2933.5	462.3	356.6	355.9	0030-1
		592.8	1337.3	1639.2	0.0	0.0	804.4	0.0	0.0	306.2	
		324.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4876.40	oil DST 1	2844.7	2244.1	917.4	923.5	650.4	2077.7	0.0	0.0	0.0	0057-0
		0.0	997.3	1429.9	0.0	0.0	500.6	0.0	0.0	0.0	
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

Table 12D: Raw sterane data (peak height) m/z 217 SIR for Well NOCS 6506/12-9S

Depth unit of measure: m

Depth	Lithology	21a	22a	27d β S	27d β R	27daS	27daR	28d β S	28d β R	28daS*	Sample
		29d β S*	28daR*	27aaR	29d β R	29daS	28aaS	29daR*	28 β β S		
		28aaR	29aaS	29 β β R	29 β β S	29aaR					
2290.00	Sh/Clst	2485.1 1143.3 23067.2	725.0 513.3 932.7	1151.0 35168.2 6380.3	890.1 1591.1 1479.5	382.2 1185.8 25759.9	3962.0 774.9	536.8 6228.0	647.4 855.4	9604.0	0032-1
3391.00	Sh/Clst	5162.1 1391.1 1074.0	1775.9 739.0 327.6	3124.9 1743.5 654.7	1942.3 1213.2 360.8	896.3 508.4 1628.4	806.0 347.5	1467.6 637.7	873.4 365.8	811.5	0037-1
3420.00	Sh/Clst	11420.8 7841.0 7814.9	2666.0 3813.0 2961.9	13416.3 11944.2 4161.6	8503.8 6604.7 1792.3	4375.4 2713.5 12449.6	4770.6 2685.3	6907.4 4829.4	4301.4 2479.1	5105.6	0040-1
3837.00	S/Sst	5270.1 3491.9 1106.1	1782.3 2119.3 905.5	8375.7 2135.1 1585.7	5125.8 2664.2 1273.5	2186.2 961.4 1528.6	2244.5 648.8	3440.2 1370.0	2294.4 1349.9	1496.0	0001-1
4130.00	Sh/Clst	5961.8 1976.8 501.3	2391.8 1615.5 649.9	4868.6 1098.6 1098.4	2998.5 1567.7 1115.1	1336.2 606.6 827.3	1313.6 441.2	2121.8 850.9	1302.1 1045.0	1031.7	0002-1

* 28daS coel with 27aaS, 29d β S coel with 27 β β R, 28daR coel with 27 β β S, 29daR coel with 28 β β R

Depth unit of measure: m

Depth	Lithology	21a	22a	27d β S	27d β R	27daS	27daR	28d β S	28d β R	28daS*	Sample
		29d β S*	28daR*	27aaR	29d β R	29daS	28aaS	29daR*	28 β RS		
		28aaR	29aaS	29 β BR	29 β BS	29aaR					
4171.00	Sh/Clst	13847.0 4798.2 640.6	5511.5 3454.1 982.9	12651.4 1450.1 1697.3	8569.1 3604.3 1831.2	3599.0 1551.6 878.9	3545.0 928.3	5232.4 1811.6	3480.9 2158.2	1890.7	0004-1
4193.00	Sh/Clst	9470.7 4130.6 403.2	3335.9 2539.5 831.5	10550.6 967.1 1002.1	6481.1 2906.9 1020.5	2734.9 1102.7 517.4	2533.9 545.3	4137.7 1038.1	2744.9 1259.9	1744.5	0005-1
4198.00	Sh/Clst	3298.0 1106.0 136.0	1106.4 737.3 264.8	2876.2 324.6 403.3	1965.3 680.5 363.4	965.4 300.7 200.6	912.7 181.4	1120.5 297.6	698.5 382.1	438.4	0006-1
4431.70	S/Sst	13450.7 5579.5 756.2	4987.2 3715.4 1625.0	11839.1 1714.2 2749.3	7119.8 4560.5 2465.9	2876.8 1715.9 1301.3	2741.5 1401.8	5148.6 2338.7	3257.2 3454.1	2298.5	0010-1
4468.40	Sh/Clst	7548.7 3116.9 1032.5	3397.0 2852.9 1941.9	3302.7 2426.5 4393.8	2175.4 2234.3 4029.9	1010.3 980.1 2880.3	1110.2 1105.7	1519.3 1784.8	1107.1 2284.8	1838.3	0011-1

* 28daS coel with 27aaS, 29d β S coel with 27 β BR, 28daR coel with 27 β BS, 29daR coel with 28 β BR

Depth unit of measure: m

Depth	Lithology	21a	22a	27d β S	27d β R	27daS	27daR	28d β S	28d β R	28daS*	Sample
		29d β S*	28daR*	27aaR	29d β R	29daS	28aaS	29daR*	28 β S		
		28aaR	29aaS	29 β R	29 β S	29aaR					
4473.79	S/Sst	9180.0 4123.6 344.3	2405.1 2589.2 746.7	8431.1 1197.9 1498.0	5140.5 3141.8 1422.5	1985.5 1056.9 669.0	1867.1 763.3	3664.2 1247.9	2248.5 1898.1	1538.2	0012-1
4510.00	oil DST 5	3181.8 2561.8 236.8	1183.1 1294.0 511.3	4917.1 587.8 970.1	2907.4 1731.0 921.2	1198.3 631.5 330.0	1321.5 435.4	2225.2 786.6	1311.3 1020.4	760.8	0060-0
4751.00	oil DST 3	4457.0 3805.8 408.5	1790.5 2075.3 1070.0	6741.7 920.8 1921.9	4090.1 2900.9 1778.5	1751.6 1120.0 933.8	1903.6 776.5	3260.7 1286.4	1822.7 2201.1	1094.8	0059-0
4816.65	S/Sst	9136.9 3988.8 446.4	2463.5 2348.8 1066.4	7699.4 1187.4 1762.4	4737.9 3007.7 1715.4	1947.8 1201.6 827.0	1831.3 807.7	3299.9 1300.5	2028.3 1995.8	1528.2	0027-1
4834.00	oil DST 2	4760.9 4268.9 469.3	1918.3 2297.7 1416.6	7732.7 1185.4 2204.3	4415.9 3562.2 2141.8	1905.8 1418.6 1072.8	1920.0 951.0	3595.6 1583.9	1946.0 2533.7	1362.6	0058-0

* 28daS coel with 27aaS, 29d β S coel with 27 β R, 28daR coel with 27 β S, 29daR coel with 28 β R

Table 12D: Raw sterane data (peak height) m/z 217 SIR for Well NOCS 6506/12-9S

Depth unit of measure: m

Depth	Lithology	21a	22a	27d β S	27d β R	27daS	27daR	28d β S	28d β R	28daS*	Sample
		29d β S*	28daR*	27aaR	29d β R	29daS	28aaS	29daR*	28 β β S		
		28aaR	29aaS	29 β β R	29 β β S	29aaR					
4844.62	S/Sst	9120.7 4007.5 378.9	1898.0 2062.0 967.0	7940.6 891.4 1395.1	4874.7 2892.3 1371.6	2027.6 1064.4 592.4	1747.4 700.3	3580.2 1015.7	2179.9 1594.1	1256.4	0030-1
4876.40	oil DST 1	4266.2 3123.0 239.9	1427.8 1477.4 744.0	5594.9 718.4 1173.6	3610.0 2362.5 1234.3	1417.9 929.3 543.1	1424.0 414.3	2841.8 841.4	1694.8 1588.8	1056.6	0057-0

* 28daS coel with 27aaS, 29d β S coel with 27 β β R, 28daR coel with 27 β β S, 29daR coel with 28 β β R

Table 12E: Raw triterpane data (peak height) m/z 177 for Well NOCS 6506/12-9S

Depth unit of measure: m

Depth	Lithology	25nor28aß	25nor30aß	Sample
2290.00	Sh/Clst	4120.7	586.8	0032-1
3391.00	Sh/Clst	574.8	0.0	0037-1
3420.00	Sh/Clst	1257.8	0.0	0040-1
3837.00	S/Sst	1762.6	724.6	0001-1
4130.00	Sh/Clst	1631.1	744.9	0002-1
4171.00	Sh/Clst	806.6	500.6	0004-1
4193.00	Sh/Clst	583.8	0.0	0005-1
4198.00	Sh/Clst	282.0	0.0	0006-1
4431.70	S/Sst	4540.8	642.7	0010-1
4468.40	Sh/Clst	2490.6	806.0	0011-1
4473.79	S/Sst	2236.7	486.9	0012-1
4510.00	oil DST 5	852.8	0.0	0060-0
4751.00	oil DST 3	2201.0	416.8	0059-0
4816.65	S/Sst	2814.9	608.4	0027-1
4834.00	oil DST 2	2841.4	632.8	0058-0

Table 12E: Raw triterpane data (peak height) m/z 177 for Well NOCS 6506/12-9S

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>25nor28aß</u>	<u>25nor30aß</u>	<u>Sample</u>
4844.62	S/Sst	2158.4	380.5	0030-1
4876.40	oil DST 1	1575.9	0.0	0057-0

Table 12F: Raw sterane data (peak height) m/z 218 for Well NOCS 6506/12-9S

Depth unit of measure: m

Depth	Lithology	^o 27 β β R	27 β β S	28 β β R	28 β β S	29 β β R	29 β β S	30 β β R	30 β β S	Sample
2290.00	Sh/Clst	1051.6	723.0	2741.4	1670.8	3050.5	1137.3	758.8	1177.5	0032-1
3391.00	Sh/Clst	626.0	518.0	543.2	463.1	573.1	390.5	93.7	69.7	0037-1
3420.00	Sh/Clst	3140.2	2634.5	2882.7	2925.4	3360.6	2377.4	360.8	503.2	0040-1
3837.00	S/Sst	2347.1	1949.0	1346.1	1639.3	1699.6	1550.4	429.1	438.0	0001-1
4130.00	Sh/Clst	1574.0	1363.9	1027.8	1138.7	1281.8	1142.0	237.0	253.5	0002-1
4171.00	Sh/Clst	3465.6	2903.0	2273.5	2424.8	1985.7	2024.6	740.0	604.3	0004-1
4193.00	Sh/Clst	2293.7	1825.3	1335.0	1371.5	1037.5	1129.1	495.8	421.9	0005-1
4198.00	Sh/Clst	720.1	637.7	375.2	423.2	405.0	338.5	89.8	83.9	0006-1
4431.70	S/Sst	4493.1	4021.6	2725.7	3298.7	3102.0	2873.7	892.3	850.0	0010-1
4468.40	Sh/Clst	3515.8	3079.8	2371.8	2705.3	5327.6	4704.7	202.6	172.8	0011-1
4473.79	S/Sst	2713.0	2483.8	1646.2	1867.6	1655.1	1697.2	472.3	508.6	0012-1
4510.00	oil DST 5	1583.8	1045.4	922.0	1062.4	972.9	939.7	327.0	281.9	0060-0
4751.00	oil DST 3	2539.0	2008.6	1526.7	1997.3	2048.7	1954.2	590.9	588.9	0059-0
4816.65	S/Sst	2652.4	2150.7	1577.6	2059.1	1979.0	1803.6	489.5	464.9	0027-1
4834.00	oil DST 2	2746.5	2096.1	1857.9	2409.2	2391.4	2224.4	719.8	685.5	0058-0

Table 12F: Raw sterane data (peak height) m/z 218 for Well NOCS 6506/12-9S

Depth unit of measure: m

Depth	Lithology	27 β β R	27 β β S	28 β β R	28 β β S	29 β β R	29 β β S	30 β β R	30 β β S	Sample
4844.62	S/Sst	2169.6	1785.9	1265.9	1607.0	1523.8	1413.6	459.1	467.0	0030-1
4876.40	oil DST 1	1755.1	1172.7	942.5	1348.1	1333.5	1177.9	390.9	342.8	0057-0

Table 13A: Tabulation of carbon isotope data for EOM/EOM - fractions for well NOCS 6506/12-9S

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Saturated	Aromatic	NSO	Asphaltenes	Kerogen	Sample
3391.00	cut	Sh/Clst	-27.82	-29.16	-27.46	-28.30	-26.43	-25.61	0037-1
3400.00	cut	S/Sst	-	-28.20	-27.86	-28.29	-26.76	-	0038-3
3420.00	cut	Sh/Clst	-27.70	-	-27.68	-28.22	-26.32	-	0040-1
3837.00	swc	S/Sst	-28.67	-29.24	-28.36	-28.78	-26.76	-	0001-1
4130.00	swc	Sh/Clst	-27.88	-30.32	-27.06	-28.60	-26.22	-	0002-1
4171.00	swc	Sh/Clst	-29.21	-30.17	-29.37	-29.54	-29.34	-28.78	0004-1
4180.00	cut	Sh/Clst	-29.22	-30.33	-29.38	-29.35	-29.44	-	0050-4
4193.00	swc	Sh/Clst	-27.85	-29.45	-28.14	-27.91	-26.98	-	0005-1
4198.00	swc	Sh/Clst	-27.42	-28.56	-27.22	-27.35	-26.81	-25.68	0006-1
4207.50	swc	Sh/Clst	-25.31	-27.45	-24.91	-27.19	-23.82	-	0007-1
4431.70	ccp	S/Sst	-	-29.25	-28.05	-28.60	-28.04	-	0010-1
4468.40	ccp	Sh/Clst	-24.18	-	-24.13	-25.10	-24.58	-	0011-1
4473.79	ccp	S/Sst	-	-29.20	-27.91	-28.40	-27.78	-	0012-1
4510.00	oil	DST 5	-	-29.53	-28.11	-27.47	-27.87	-	0060-0
4751.00	oil	DST 3	-	-29.17	-27.70	-27.48	-28.26	-	0059-0

Table 13A: Tabulation of carbon isotope data for EOM/EOM - fractions for well NOCS 6506/12-9S

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Saturated	Aromatic	NSO	Asphaltenes	Kerogen	Sample
4751.45	ccp	S/Sst	-27.60	-28.48	-27.60	-27.56	-27.19	-	0023-1
4762.47	ccp	S/Sst	-28.29	-29.00	-27.72	-28.16	-26.95	-	0024-1
4767.31	ccp	Sh/Clst	-25.71	-28.40	-24.95	-25.56	-24.25	-	0025-1
4816.65	ccp	S/Sst	-27.48	-28.72	-27.41	-28.23	-26.79	-	0027-1
4834.00	oil	DST 2	-	-28.93	-27.59	-27.45	-28.25	-	0058-0
4844.62	ccp	S/Sst	-28.09	-28.80	-27.54	-28.40	-26.26	-	0030-1
4876.40	oil	DST 1	-	-28.84	-27.45	-27.39	-28.18	-	0057-0

Table 13B: Tabulation of cv values from carbon isotope data for well NOCS 6506/12-9S

Depth unit of measure: m

<u>Depth</u>	<u>Typ</u>	<u>Lithology</u>	<u>Saturated</u>	<u>Aromatic</u>	<u>cv value</u>	<u>Sample</u>
3391.00	cut	Sh/Clst	-29.16	-27.46	1.16	0037-1
3400.00	cut	S/Sst	-28.20	-27.86	-2.15	0038-3
3420.00	cut	Sh/Clst	-	-27.68	-73.10	0040-1
3837.00	swc	S/Sst	-29.24	-28.36	-0.63	0001-1
4130.00	swc	Sh/Clst	-30.32	-27.06	4.99	0002-1
4171.00	swc	Sh/Clst	-30.17	-29.37	-0.52	0004-1
4180.00	cut	Sh/Clst	-30.33	-29.38	-0.14	0050-4
4193.00	swc	Sh/Clst	-29.45	-28.14	0.39	0005-1
4198.00	swc	Sh/Clst	-28.56	-27.22	0.18	0006-1
4207.50	swc	Sh/Clst	-27.45	-24.91	2.50	0007-1
4431.70	ccp	S/Sst	-29.25	-28.05	0.08	0010-1
4468.40	ccp	Sh/Clst	-	-24.13	-65.22	0011-1
4473.79	ccp	S/Sst	-29.20	-27.91	0.27	0012-1
4510.00	oil	DST 5	-29.53	-28.11	0.66	0060-0
4751.00	oil	DST 3	-29.17	-27.70	0.66	0059-0

Table 13B: Tabulation of cv values from carbon isotope data for well NOCS 6506/12-9S

Depth unit of measure: m

<u>Depth</u>	<u>Typ</u>	<u>Lithology</u>	<u>Saturated</u>	<u>Aromatic</u>	<u>cv value</u>	<u>Sample</u>
4751.45	ccp	S/Sst	-28.48	-27.60	-0.87	0023-1
4762.47	ccp	S/Sst	-29.00	-27.72	0.18	0024-1
4767.31	ccp	Sh/Clst	-28.40	-24.95	4.81	0025-1
4816.65	ccp	S/Sst	-28.72	-27.41	0.16	0027-1
4834.00	oil	DST 2	-28.93	-27.59	0.29	0058-0
4844.62	ccp	S/Sst	-28.80	-27.54	0.08	0030-1
4876.40	oil	DST 1	-28.84	-27.45	0.38	0057-0

Table 13C: Tabulation of carbon isotope data on oils for Well NOCS 6506/12-9S

Well	Descript.	Whole oil	Topped oil	Saturated	Aromatic	NSO	Asphaltenes	Sample
NO 6506/12-9S	DST 1	-28.31	-	-28.84	-27.45	-27.39	-28.18	J56/0057
NO 6506/12-9S	DST 2	-28.06	-	-28.93	-27.59	-27.45	-28.25	J56/0058
NO 6506/12-9S	DST 3	-28.37	-	-29.17	-27.70	-27.48	-28.26	J56/0059
NO 6506/12-9S	DST 5	-28.61	-	-29.53	-28.11	-27.47	-27.87	J56/0060

Table 13D: Tabulation of cv values from carbon isotope data for Well NOCS 6506/12-9S

<u>Well</u>	<u>Descript.</u>	<u>Saturated</u>	<u>Aromatic</u>	<u>cv value</u>	<u>Sample</u>
NO 6506/12-9S	DST 1	-28.84	-27.45	0.38	J56/0057
NO 6506/12-9S	DST 2	-28.93	-27.59	0.29	J56/0058
NO 6506/12-9S	DST 3	-29.17	-27.70	0.66	J56/0059
NO 6506/12-9S	DST 5	-29.53	-28.11	0.66	J56/0060

Table 14: API Gravity Data for Well NOCS 6506/12-9S

Sample	Depth	API
DST-1	4846-4876.4m	42.3
DST-2	4805-4834m	34.9
DST-3	4742-4751m	39.7
DST-5	4477-4510m	46.4

Table 15: Topping data for Oils Well NOCS 6506/12-9S

Sample	Depth	Fraction removed >210°C
DST-1	4846-4876.4m	28.77 %
DST-2	4805-4834m	11.96 %
DST-3	4742-4751m	17.46 %
DST-5	4477-4510m	28.74 %