

Schlumberger

GECO-PRAKLA

GEOLAB NOR

**Geochemical Report for
Well NOCS 6507/2-1**

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Table 2 : Rock-Eval table for well NOCS 6507/2-1

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Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
1030.00	cut	S/Sst : w to lt gy	-	0.08	0.08	1.00	0.02	400	400	0.1	-	434	0051-1L
1270.00	com	bulk	0.10	0.19	0.59	0.32	0.20	95	295	0.3	0.34	401	0306-0B
1510.00	cut	S/Sst : lt gy	0.30	0.85	1.23	0.69	0.60	142	205	1.2	0.26	424	0067-2L
1600.00	com	bulk	0.26	0.65	1.62	0.40	0.53	123	306	0.9	0.29	421	0308-0B
1720.00	com	bulk	0.28	0.87	1.59	0.55	0.61	143	261	1.1	0.24	427	0309-0B
1780.00	cut	S/Sst : lt gy to pl y brn	0.22	0.46	0.76	0.61	0.47	98	162	0.7	0.32	399	0076-1L
1870.00	cut	Sltst : pl ol to lt gy	0.09	0.14	0.46	0.30	0.06	233	767	0.2	0.39	358	0079-3L
1900.00	cut	Sh/Clst: m gy to drk gy	0.64	1.26	0.82	1.54	1.18	107	69	1.9	0.34	373	0080-4L
2050.00	cut	Sh/Clst: lt gy	0.08	0.22	0.65	0.34	0.42	52	155	0.3	0.27	389	0085-3L
2170.00	cut	Sltst : lt gy	0.24	0.57	0.94	0.61	0.74	77	127	0.8	0.30	422	0089-2L
2290.00	cut	Sh/Clst: lt gy	0.20	0.63	0.40	1.57	0.80	79	50	0.8	0.24	419	0093-2L
2500.00	cut	Sh/Clst: lt gy	0.37	0.56	0.49	1.14	0.67	84	73	0.9	0.40	426	0100-2L
2620.00	cut	Sh/Clst: lt gy	0.28	0.96	0.63	1.52	0.88	109	72	1.2	0.23	433	0104-2L
2800.00	cut	Sh/Clst: lt gy	0.32	0.87	1.05	0.83	0.86	101	122	1.2	0.27	429	0112-2L
2860.00	cut	Sh/Clst: lt gy to m gy	0.38	0.96	0.77	1.25	0.92	104	84	1.3	0.28	431	0114-2L

Table 2 : Rock-Eval table for well NOCS 6507/2-1

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
3040.00	cut	Sh/Clst: lt gy to m gy	0.36	0.80	0.60	1.33	0.73	110	82	1.2	0.31	366	0120-2L
3130.00	cut	Sh/Clst: lt gy to drk gy	0.23	0.34	0.32	1.06	0.51	67	63	0.6	0.40	423	0123-2L
3520.00	cut	S/Sst : w to lt gy	1.73	1.45	1.83	0.79	0.96	151	191	3.2	0.54	425	0136-4L
3580.00	cut	Sh/Clst: m gy to drk gy	2.83	1.12	0.31	3.61	1.14	98	27	4.0	0.72	441	0138-1L
3612.00	cut	Sh/Clst: m gy to drk gy	1.56	0.87	0.27	3.22	0.98	89	28	2.4	0.64	432	0141-1L
3640.00	com	bulk	6.36	6.43	0.76	8.46	3.76	171	20	12.8	0.50	433	0311-0B
3645.00	cut	Sh/Clst: gy brn to dsk y brn	2.74	4.08	0.55	7.42	2.03	201	27	6.8	0.40	447	0147-5L
3655.00	cut	Sh/Clst: gy brn to dsk y brn, brn blk	2.00	4.05	0.57	7.11	1.83	221	31	6.1	0.33	449	0149-4L
3665.00	cut	Sh/Clst: pl brn to dsk y brn	3.38	5.75	0.49	11.73	2.24	257	22	9.1	0.37	443	0151-3L
3680.00	cut	Sh/Clst: pl brn to dsk y brn	1.06	3.00	0.50	6.00	1.39	216	36	4.1	0.26	444	0154-2L
3690.00	cut	Sh/Clst: pl brn to dsk y brn	1.32	3.49	0.66	5.29	1.90	184	35	4.8	0.27	444	0156-2L
3725.00	com	bulk	1.15	3.10	0.55	5.64	1.69	183	33	4.3	0.27	445	0312-0B
3745.00	cut	Sh/Clst: pl brn to dsk y brn	1.64	2.87	0.48	5.98	1.34	214	36	4.5	0.36	445	0166-2L
3755.00	cut	Sh/Clst: pl brn to dsk y brn	1.28	2.22	0.55	4.04	1.28	173	43	3.5	0.37	444	0168-2L

Table 2 : Rock-Eval table for well NOCS 6507/2-1

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Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
3765.00	cut	Sh/Clst: pl brn to dsk brn	1.71	4.30	0.49	8.78	2.05	210	24	6.0	0.28	450	0170-2L
3775.00	cut	Sh/Clst: pl brn to dsk brn	1.28	2.39	0.47	5.09	1.23	194	38	3.7	0.35	447	0171-2L
3785.00	cut	Sh/Clst: pl brn to dsk brn to brn blk	1.71	2.62	0.51	5.14	1.32	198	39	4.3	0.39	445	0173-2L
3795.00	cut	Sh/Clst: pl brn to dsk brn to brn blk	1.47	2.83	0.53	5.34	1.55	183	34	4.3	0.34	445	0175-2L
3805.00	cut	Sh/Clst: pl brn to dsk brn to brn blk	1.29	2.83	0.48	5.90	1.33	213	36	4.1	0.31	446	0178-2L
3815.00	cut	Sh/Clst: pl brn to dsk brn to brn blk	1.43	3.24	0.56	5.79	1.51	215	37	4.7	0.31	445	0180-2L
3825.00	cut	Sh/Clst: pl brn to dsk brn to brn blk	1.64	3.13	0.49	6.39	1.57	199	31	4.8	0.34	445	0182-2L
3870.00	cut	S/Sst : w	0.09	0.28	0.15	1.87	0.11	255	136	0.4	0.24	371	0191-5L
4120.00	cut	S/Sst : w	0.21	0.08	0.08	1.00	0.03	267	267	0.3	0.72	370	0232-4L
4150.00	cut	S/Sst : w	0.11	0.04	-	-	0.03	133	-	0.2	0.73	418	0238-4L
4160.00	cut	Sh/Clst: dsk y brn to brn gy to blk	7.50	35.73	0.53	67.42	13.52	264	4	43.2	0.17	463	0241-2L
4245.00	cut	Sh/Clst: dsk y brn to brn gy to blk	1.63	3.83	0.39	9.82	2.20	174	18	5.5	0.30	459	0258-2L

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
4265.00	cut	S/Sst : w	0.21	0.59	0.03	19.67	0.23	257	13	0.8	0.26	376	0262-3L
4330.00	cut	S/Sst : w	0.25	0.29	0.07	4.14	0.11	264	64	0.5	0.46	423	0275-3L
4350.00	cut	S/Sst : w	0.17	0.32	0.06	5.33	0.08	400	75	0.5	0.35	417	0279-3L
4370.00	cut	Sh/Clst: gy brn to dsk y brn to blk	2.34	2.69	0.24	11.21	1.15	234	21	5.0	0.47	448	0283-2L
4370.00	cut	Coal : blk	7.03	50.00	0.18	277.78	21.47	233	1	57.0	0.12	465	0283-5L
4395.00	cut	S/Sst : w	0.15	0.24	0.12	2.00	0.04	600	300	0.4	0.38	377	0288-3L
4405.00	cut	Sh/Clst: gy brn to dsk y brn to blk	1.01	1.42	0.19	7.47	0.75	189	25	2.4	0.42	449	0290-2L
4410.00	cut	Coal : blk	9.16	67.29	0.41	164.12	27.07	249	2	76.5	0.12	469	0291-5L
4415.00	cut	S/Sst : w	0.11	0.13	0.05	2.60	0.03	433	167	0.2	0.46	369	0292-3L
4425.00	cut	Sh/Clst: gy brn to dsk y brn to blk	0.85	1.61	0.09	17.89	0.99	163	9	2.5	0.35	452	0294-2L
4435.00	cut	S/Sst : w	0.11	0.23	0.03	7.67	0.08	288	38	0.3	0.32	374	0296-3L
4445.00	cut	Sh/Clst: gy brn to dsk y brn to blk	1.93	2.41	0.25	9.64	1.13	213	22	4.3	0.44	447	0298-2L
4460.00	cut	Sh/Clst: lt gy to brn gy to dsk y brn	0.33	0.64	0.10	6.40	0.29	221	34	1.0	0.34	446	0301-2L

Table 2 : Rock-Eval table for well NOCS 6507/2-1

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
4465.00	cut	Sh/Clst: lt gy to brn gy to dsk y brn	0.20	0.57	0.05	11.40	0.22	259	23	0.8	0.26	368	0302-2L
4470.00	cut	Sh/Clst: lt gy to brn gy	0.22	0.43	0.04	10.75	0.25	172	16	0.7	0.34	448	0303-2L
4477.00	cut	Sh/Clst: lt gy to brn gy	0.29	0.33	0.07	4.71	0.26	127	27	0.6	0.47	399	0305-2L

Table 3 : Pyrolysis GC Data (S2 peak) as Percentage of Total Area for Well NOCS 6507/2-1

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Depth unit of measure: m

Depth	Typ	Lithology	C1	C2-C5	C6-C14	C15+	S2 from Rock-Eval	Sample
1510.00	cut	S/Sst : lt gy	3.84	19.63	63.96	12.57	0.85	0067-2L
1720.00	com	bulk	5.76	21.39	59.73	13.11	0.87	0309-0B
1900.00	cut	Sh/Clst: m gy to drk gy	2.72	25.06	56.03	16.19	1.26	0080-4L
2620.00	cut	Sh/Clst: lt gy	7.70	22.98	54.23	15.10	0.96	0104-2L
3520.00	cut	S/Sst : w to lt gy	5.73	24.46	55.90	13.91	1.45	0136-4L
3580.00	cut	Sh/Clst: m gy to drk gy	8.72	25.64	50.64	15.00	1.12	0138-1L
3640.00	com	bulk	4.47	20.34	40.96	34.23	6.43	0311-0B
3655.00	cut	Sh/Clst: gy brn to dsk y brn, brn blk	7.32	19.75	36.22	36.71	4.05	0149-4L
3690.00	cut	Sh/Clst: pl brn to dsk y brn	7.35	20.40	37.20	35.05	3.49	0156-2L
3755.00	cut	Sh/Clst: pl brn to dsk y brn	6.57	20.93	40.41	32.09	2.22	0168-2L
3775.00	cut	Sh/Clst: pl brn to dsk brn	6.28	20.42	39.24	34.06	2.39	0171-2L
3805.00	cut	Sh/Clst: pl brn to dsk brn to brn blk	6.95	20.19	37.77	35.08	2.83	0178-2L
3825.00	cut	Sh/Clst: pl brn to dsk brn to brn blk	6.70	21.23	37.75	34.32	3.13	0182-2L

Table 3 : Pyrolysis GC Data (S2 peak) as Percentage of Total Area for Well NOCS 6507/2-1

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Depth unit of measure: m

Depth	Typ	Lithology	C1	C2-C5	C6-C14	C15+	S2 from Rock-Eval	Sample
4120.00	cut	S/Sst : w	4.41	35.27	53.60	6.71	0.08	0232-4L
4160.00	cut	Sh/Clst: dsk y brn to brn gy to blk	17.94	19.29	22.53	40.24	35.73	0241-2L
4265.00	cut	S/Sst : w	8.32	33.72	42.02	15.94	0.59	0262-3L
4370.00	cut	Coal : blk	17.00	16.79	22.83	43.37	50.00	0283-5L
4395.00	cut	S/Sst : w	5.91	35.28	51.23	7.58	0.24	0288-3L
4410.00	cut	Coal : blk	18.32	18.35	21.15	42.18	67.29	0291-5L
4445.00	cut	Sh/Clst: gy brn to dsk y brn to blk	10.45	22.94	38.21	28.40	2.41	0298-2L
4460.00	cut	Sh/Clst: lt gy to brn gy to dsk y brn	10.11	29.60	46.12	14.18	0.64	0301-2L
4465.00	cut	Sh/Clst: lt gy to brn gy to dsk y brn	7.30	34.25	51.26	7.19	0.57	0302-2L
4477.00	cut	Sh/Clst: lt gy to brn gy	5.72	33.90	54.57	5.80	0.33	0305-2L

Table 4 a: Weight of EOM and Chromatographic Fraction for well NOCS 6507/2-1

Depth unit of measure: m

Depth	Typ	Lithology	Rock Extracted (g)	EOM (mg)	Sat (mg)	Aro (mg)	Asph (mg)	NSO (mg)	HC (mg)	Non-HC (mg)	TOC(e) (%)	Sample
3520.00	cut	S/Sst : w to lt gy	2.2	3.1	1.8	0.9	0.1	0.3	2.7	0.4	0.93	0136-4L
3640.00	com	Composite sample - see table 4 e	2.6	9.9	5.7	2.0	0.5	1.7	7.7	2.2	2.80	0311-0B
3755.00	cut	Sh/Clst: pl brn to dsk y brn	2.6	3.4	2.1	0.6	0.1	0.6	2.7	0.7	1.52	0168-2L
3825.00	cut	Sh/Clst: pl brn to dsk brn to brn blk	1.5	2.3	1.4	0.5	0.1	0.3	1.9	0.4	1.92	0182-2L
4370.00	cut	Coal : blk	1.2	26.4	1.2	3.6	20.4	1.2	4.8	21.6	28.00	0283-5L
4477.00	cut	Sh/Clst: lt gy to brn gy	1.7	1.1	0.6	0.2	0.1	0.2	0.8	0.3	0.47	0305-2L

Table 4 b: Concentration of EOM and Chromatographic Fraction (wt ppm rock) for well NOCS 6507/2-1

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
3520.00	cut	S/Sst : w to lt gy	1383	803	401	44	133	1205	178	0136-4L
3640.00	com	Composite sample - see table 4 e	3852	2217	778	194	661	2996	856	0311-0B
3755.00	cut	Sh/Clst: pl brn to dsk y brn	1322	817	233	38	233	1050	272	0168-2L
3825.00	cut	Sh/Clst: pl brn to dsk brn to brn blk	1493	909	324	64	194	1233	259	0182-2L
4370.00	cut	Coal : blk	21818	991	2975	16859	991	3966	17851	0283-5L
4477.00	cut	Sh/Clst: lt gy to brn gy	632	344	114	57	114	459	172	0305-2L

Table 4 c: Concentration of EOM and Chromatographic Fraction (mg/g TOC(e)) for well NOCS 6507/2-1

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
3520.00	cut	S/Sst : w to lt gy	148.81	86.41	43.20	4.80	14.40	129.61	19.20	0136-4L
3640.00	com	Composite sample - see table 4 e	137.58	79.21	27.79	6.95	23.62	107.00	30.57	0311-0B
3755.00	cut	Sh/Clst: pl brn to dsk y brn	87.04	53.76	15.36	2.56	15.36	69.12	17.92	0168-2L
3825.00	cut	Sh/Clst: pl brn to dsk brn to brn blk	77.79	47.35	16.91	3.38	10.15	64.26	13.53	0182-2L
4370.00	cut	Coal : blk	77.92	3.54	10.63	60.21	3.54	14.17	63.75	0283-5L
4477.00	cut	Sh/Clst: lt gy to brn gy	134.51	73.37	24.46	12.23	24.46	97.82	36.68	0305-2L

Table 4 d: Composition of material extracted from the rock (%) for well NOCS 6507/2-1

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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	
3520.00	cut	S/Sst : w to lt gy	58.06	29.03	3.23	9.68	87.10	12.90	200.00	675.00	0136-4L
3640.00	com	Composite sample - see table 4 e	57.58	20.20	5.05	17.17	77.78	22.22	285.00	350.00	0311-0B
3755.00	cut	Sh/Clst: pl brn to dsk y brn	61.76	17.65	2.94	17.65	79.41	20.59	350.00	385.71	0168-2L
3825.00	cut	Sh/Clst: pl brn to dsk brn to brn blk	60.87	21.74	4.35	13.04	82.61	17.39	280.00	475.00	0182-2L
4370.00	cut	Coal : blk	4.55	13.64	77.27	4.55	18.18	81.82	33.33	22.22	0283-5L
4477.00	cut	Sh/Clst: lt gy to brn gy	54.55	18.18	9.09	18.18	72.73	27.27	300.00	266.67	0305-2L

Depth unit of measure: m

NOTE: Depths shown in tables 4 a to d correspond to the composite samples' lower depth.

<u>Upper depth</u>	<u>Lower depth</u>	<u>Typ</u>	<u>Sample</u>	<u>Depth</u>	<u>Typ</u>	<u>Lithology</u>	<u>Sample</u>
3612.00	3640.00	com	0311-0B is composed of:	3612.00	cut	Sh/Clst: dsk y brn, slt	0141-6L
				3620.00	cut	Sh/Clst: dsk y brn, slt	0142-6L
				3625.00	cut	Sh/Clst: dsk y brn, slt	0143-5L
				3630.00	cut	Sh/Clst: dsk y brn, slt	0144-5L
				3635.00	cut	Sh/Clst: dsk y brn, slt	0145-5L
				3640.00	cut	Sh/Clst: dsk y brn, slt	0146-5L

Table 5 : Saturated Hydrocarbon Ratios for well NOCS 6507/2-1

Depth unit of measure: m

Depth	Typ	Lithology	Pristane	Pristane	Pristane + Phytane	Phytane	CPI	Sample
			nC17	Phytane	nC17 + nC18	nC18		
3520.00	cut	S/Sst : w to lt gy	0.45	1.96	0.42	0.37	1.05	0136-4L
3640.00	com	bulk	0.65	2.52	0.64	0.61	1.07	0311-0B
3755.00	cut	Sh/Clst: pl brn to dsk y brn	0.55	3.09	0.48	0.33	1.53	0168-2L
3825.00	cut	Sh/Clst: pl brn to dsk brn to brn blk	0.60	2.90	0.54	0.41	1.85	0182-2L
4370.00	cut	Coal : blk	0.35	3.00	0.26	0.15	1.13	0283-5L
4477.00	cut	Sh/Clst: lt gy to brn gy	0.50	2.48	0.49	0.48	1.07	0305-2L

Table 6 : Aromatic Hydrocarbon Ratios for well NOCS 6507/2-1

Depth unit of measure: m

Depth	Typ	Lithology	MNR	DMNR	BPhR	2/1MP	MPI1	MPI2	Rc	DBT/P	4/1MDBT	(3+2) /1MDBT	Sample
3520.00	cut	S/Sst : w to lt gy	0.87	1.53	0.34	1.24	0.73	0.85	0.84	0.25	8.56	1.14	0136-4L
3640.00	com	bulk	0.93	1.15	0.18	1.21	0.68	0.81	0.81	0.25	7.42	0.83	0311-0B
3755.00	cut	Sh/Clst: pl brn to dsk y brn	0.74	1.29	0.11	1.11	0.68	0.81	0.81	0.14	-	-	0168-2L
3825.00	cut	Sh/Clst: pl brn to dsk brn to brn blk	0.80	1.20	0.15	1.22	0.69	0.84	0.81	0.14	-	-	0182-2L
4370.00	cut	Coal : blk	1.31	2.80	0.57	1.39	0.91	1.11	0.95	0.31	21.89	4.81	0283-5L
4477.00	cut	Sh/Clst: lt gy to brn gy	-	0.84	-	1.63	0.94	1.00	0.96	-	-	-	0305-2L

Table 7 : Thermal Maturity Data for well NOCS 6507/2-1

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Depth unit of measure: m

Depth	Typ Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation	Spore Fluorescence Colour	SCI	T _{max} (°C)	Sample
1570.00	com bulk	0.27	20	0.05	3	-	-	0307-0B
1690.00	com bulk	0.28	20	0.05	3	-	-	0314-0B
1720.00	com bulk	-	-	-	-	4.5	427	0309-0B
1840.00	cut Sh/Clst: pl ol to lt gy	0.29	3	0.10	3+4	-	-	0078-4L
1900.00	cut Sh/Clst: m gy to drk gy	-	-	-	-	4.0-4.5(??)	373	0080-4L
1990.00	cut Sh/Clst: lt gy	0.34	13	0.04	3+4	-	-	0083-3L
2080.00	cut Sh/Clst: lt gy	0.35	10	0.06	3+4	-	-	0086-2L
2170.00	cut Sltst : lt gy	0.35	20	0.05	3+4	-	422	0089-2L
2290.00	cut Sh/Clst: lt gy	0.32	15	0.03	3+4	5.0-5.5	419	0093-2L
2410.00	cut Sh/Clst: lt gy	0.37	9	0.04	3-5	-	-	0097-2L
2530.00	cut Sh/Clst: lt gy	0.35	14	0.02	3+4	-	-	0101-2L
2620.00	cut Sh/Clst: lt gy	-	-	-	-	5.5	433	0104-2L
2650.00	cut Sh/Clst: lt gy	0.43	10	0.05	3+4	-	-	0105-2L
2740.00	cut Sh/Clst: lt gy	0.40	6	0.04	3+4	-	-	0108-2L

Table 7 : Thermal Maturity Data for well NOCS 6507/2-1

Depth unit of measure: m

Depth	Typ Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation	Spore Fluorescence Colour	SCI	T _{max} (°C)	Sample
2800.00	cut Sh/Clst: lt gy	-	-	-	-	5.5	429	0112-2L
2860.00	cut Sh/Clst: lt gy to m gy	0.39	14	0.04	3+4	-	431	0114-2L
2980.00	cut Sh/Clst: lt gy to m gy	0.35	3	0.03	3-4	-	-	0118-2L
3040.00	cut Sh/Clst: lt gy to m gy	-	-	-	-	6.0	366	0120-2L
3100.00	cut Sh/Clst: lt gy to drk gy	0.45	3	0.06	3+4	-	-	0122-2L
3520.00	com bulk	0.49	3	0.03	4-6	-	-	0310-0B
3580.00	cut Sh/Clst: m gy to drk gy	-	-	-	-	6.5(??)	441	0138-1L
3612.00	cut Sh/Clst: m gy to drk gy	NDP	-	-	4-6	-	432	0141-1L
3645.00	cut Sh/Clst: gy brn to dsk y brn	0.54	20	0.07	5	6.0	447	0147-5L
3665.00	cut Sh/Clst: pl brn to dsk y brn	-	-	-	-	6.0-6.5	443	0151-3L
3680.00	cut Sh/Clst: pl brn to dsk y brn	0.58	20	0.06	5+6	-	444	0154-2L
3750.00	cut Sh/Clst: pl brn to dsk y brn	0.58	20	0.05	5+6	-	-	0167-2L
3755.00	cut Sh/Clst: pl brn to dsk y brn	-	-	-	-	6.5	444	0168-2L
3800.00	cut Sh/Clst: pl brn to dsk brn to brn blk	0.57	20	0.06	5+6	-	-	0177-2L

Table 7 : Thermal Maturity Data for well NOCS 6507/2-1

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Depth unit of measure: m

Depth	Typ	Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation	Spore Fluorescence Colour	SCI	T _{max} (°C)	Sample
3805.00	cut	Sh/Clst: pl brn to dsk brn to brn blk	-	-	-	-	6.5-7.0(?)	446	0178-2L
3860.00	cut	Sh/Clst: pl brn to dsk brn to brn blk	0.64	20	0.07	5+6	-	-	0189-2L
4160.00	cut	Sh/Clst: dsk y brn to brn gy to blk	-	-	-	-	7.5-8.0	463	0241-2L
4170.00	com	bulk	0.73	11	0.08	6	-	-	0313-0B
4370.00	cut	Sh/Clst: gy brn to dsk y brn to blk	-	-	-	-	7.5	448	0283-2L
4370.00	cut	Coal : blk	0.95	25	0.13	0	7.5-8.0	465	0283-5L
4405.00	cut	Sh/Clst: gy brn to dsk y brn to blk	0.75	18	0.08	6+7	-	449	0290-2L
4410.00	cut	Coal : blk	1.05	20	0.07	0	-	469	0291-5L
4445.00	cut	Sh/Clst: gy brn to dsk y brn to blk	1.04	14	0.10	6+7	8.0-8.5	447	0298-2L
4475.00	cut	Sh/Clst: lt gy to brn gy	1.14	9	0.17	0	-	-	0304-2L

Depth unit of measure: m

Depth	Typ	Lithology	L	A	L	S	C	R	A	D	I	S	I	M	S	V	C	V	A	Sample	
			%	L	t	l	l	n	e	l	t	L	%	n	s	t	n	o	I		%
1720.00	com	bulk	20		**	*	*				10	*				70	*	**		0309-0B	
1900.00	cut	Sh/Clst: m gy to drk gy	100	*	*		**	*			TR	*				TR		*		0080-4L	
2290.00	cut	Sh/Clst: lt gy	20	*	**		**	*			45	*	**			25	*	**		0093-2L	
2620.00	cut	Sh/Clst: lt gy	30	*	**	*		*			40	*	**			30	*	**		0104-2L	
2800.00	cut	Sh/Clst: lt gy <i>Coniacia</i>	30	*	**	*		*			40	*	**			30	*	**		0112-2L	
3040.00	cut	Sh/Clst: lt gy to m gy <i>2L. Carmanian</i>	70	**	**	*		*			25	*				5		*		0120-2L	
3580.00	cut	Sh/Clst: m gy to drk gy	55	**	**	*		*	*		25	*				20	*	**		0138-1L	
3645.00	cut	Sh/Clst: gy brn to dsk y brn	60	*	**	*		*	*	?	TR	*				40	*	*		0147-5L	
3665.00	cut	Sh/Clst: pl brn to dsk y brn	65	*	**	*		*			5	*	*			30	*	*	?	0151-3L	
3755.00	cut	Sh/Clst: pl brn to dsk y brn	80	**	**	*	*	*			10	*				10		*		0168-2L	
3805.00	cut	Sh/Clst: pl brn to dsk brn to brn blk	80	**		*	*	*			10	*				10	*	**		0178-2L	
4160.00	cut	Sh/Clst: dsk y brn to brn gy to blk	50	**		*	*	*			20	*				30	*	**		0241-2L	

Table 8 : Visual Kerogen Composition Data for well NOCS 6507/2-1

Depth unit of measure: m

Depth	Typ	Lithology	L	A	L	S	C	D	I	S	I	M	S	V	C	V	A	Sample				
			%	L	t	l	l	n	e	l	t	L	%	n	s	t	n		o	I	%	n
4370.00	cut	Sh/Clst: gy brn to dsk y brn to blk	30	*	*		*		15	*	*			55	*	*	*	0283-2L				
4370.00	cut	Coal : blk	40	*	**	*			15	*				45	**	*		0283-5L				
4445.00	cut	Sh/Clst: gy brn to dsk y brn to blk	NDP	**	*	*	*		NDP		*			NDP		*		0298-2L				

Table 9A: Tabulation of carbon isotope data for EOM/EOM - fractions for well NOCS 6507/2-1

Depth unit of measure: m

<u>Depth</u>	<u>Typ</u>	<u>Lithology</u>	<u>EOM</u>	<u>Saturated</u>	<u>Aromatic</u>	<u>NSO</u>	<u>Asphaltenes</u>	<u>Kerogen</u>	<u>Sample</u>
3520.00	cut	S/Sst	-	-28.97	-27.28	-27.87	-26.66	-	0136-4
3640.00	com	Composite sample	-26.91	-29.10	-26.20	-26.97	-25.30	-	0311-0
3755.00	cut	Sh/Clst	-	-27.87	-25.69	-26.39	-25.56	-	0168-2
4370.00	cut	Coal	-25.32	-28.02	-25.20	-25.61	-25.24	-	0283-5
4477.00	cut	Sh/Clst	-	-28.81	-29.00	-27.20	-26.19	-	0305-2

Table 9B: Tabulation of cv values from carbon isotope data for well NOCS 6507/2-1

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>
3520.00	cut	S/Sst	-28.97	-27.28	1.08	0136-4
3640.00	com	Composite sample	-29.10	-26.20	3.81	0311-0
3755.00	cut	Sh/Clst	-27.87	-25.69	1.83	0168-2
4370.00	cut	Coal	-28.02	-25.20	3.30	0283-5
4477.00	cut	Sh/Clst	-28.81	-29.00	-3.14	0305-2

Table 10A: Variation in Triterpane Distribution (peak height) SIR for Well NOCS 6507/2-1

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Depth unit of measure: m

Depth	Lithology	B/A	B/B+A	B		C/E	C/C+E	X/E	Z/E	Z/C	Z/Z+E	Q/E	E/E+F	C+D		J1		Sample
				B+E+F										C+D+E+F	D+F/C+E	J1+J2%		
3520.00	S/Sst	1.46	0.59	0.20	0.65	0.39	0.08	0.07	0.11	0.07	0.16	0.86	0.39	0.17	61.27	0136-4		
3640.00	bulk	1.44	0.59	0.15	0.51	0.34	0.09	0.01	0.02	0.01	0.09	0.90	0.34	0.10	61.43	0311-0		
3755.00	Sh/Clst	1.00	0.50	0.14	0.43	0.30	0.10	0.03	0.07	0.03	0.16	0.92	0.30	0.09	62.20	0168-2		
4370.00	Coal	0.70	0.41	0.24	0.61	0.38	0.66	0.09	0.15	0.08	0.40	0.90	0.39	0.13	60.59	0283-5		
4477.00	Sh/Clst	1.15	0.54	0.19	0.55	0.36	0.07	0.10	0.19	0.09	0.44	0.90	0.37	0.13	60.82	0305-2		

Table 10B: Variation in Sterane Distribution (peak height) SIR for Well NOCS 6507/2-1

Depth unit of measure: m

Depth	Lithology	Ratio1	Ratio2	Ratio3	Ratio4	Ratio5	Ratio6	Ratio7	Ratio8	Ratio9	Ratio10	Sample
3520.00	S/Sst	0.68	41.15	72.61	1.16	0.76	0.54	0.41	0.57	0.70	2.25	0136-4
3640.00	bulk	0.79	49.67	75.02	1.10	0.75	0.63	0.51	0.60	0.99	2.98	0311-0
3755.00	Sh/Clst	0.77	55.32	74.48	1.26	0.73	0.61	0.46	0.59	1.24	3.27	0168-2
4370.00	Coal	0.60	44.20	77.77	0.58	0.80	0.48	0.38	0.64	0.79	3.13	0283-5
4477.00	Sh/Clst	0.70	33.74	68.91	1.17	0.77	0.70	0.57	0.53	0.51	1.67	0305-2

Ratio1: $a / a + j$

Ratio2: $q / q + t * 100\%$

Ratio3: $2(r + s) / (q + t + 2(r + s)) * 100\%$

Ratio4: $a + b + c + d / h + k + l + n$

Ratio5: $r + s / r + s + q$

Ratio6: $u + v / u + v + q + r + s + t$

Ratio7: $u + v / u + v + i + m + n + q + r + s + t$

Ratio8: $r + s / q + r + s + t$

Ratio9: q / t

Ratio10: $r + s / t$

Table 10C: Variation in Triaromatic Sterane Distribution for Well Well NOCS 6507/2-1

Depth unit of measure: m

Depth	Lithology	Ratio1	Ratio2	Ratio3	Ratio4	Ratio5	Sample
3520.00	S/Sst	0.87	0.79	0.62	0.66	0.76	0136-4
3640.00	bulk	0.80	0.72	0.56	0.56	0.72	0311-0
3755.00	Sh/Clst	0.85	0.79	0.69	0.68	0.84	0168-2
4370.00	Coal	-	-	-	-	-	0283-5
4477.00	Sh/Clst	-	-	-	-	-	0305-2

Ratio1: a1 / a1 + g1

Ratio2: b1 / b1 + g1

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

Ratio4: a1 / a1 + e1 + f1 + g1

Ratio5: a1 / a1 + d1

Table 10D: Variation in Monoaromatic Sterane Distribution for Well NOCS 6507/2-1

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Ratio1</u>	<u>Ratio2</u>	<u>Ratio3</u>	<u>Ratio4</u>	<u>Sample</u>
3520.00	S/Sst	0.71	0.50	0.59	0.51	0136-4
3640.00	bulk	0.60	0.44	0.45	0.37	0311-0
3755.00	Sh/Clst	0.45	0.32	0.30	0.28	0168-2
4370.00	Coal	-	-	-	-	0283-5
4477.00	Sh/Clst	0.43	0.23	0.34	0.29	0305-2

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

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

Table 10E: Aromatisation of Steranes for Well NOCS 6507/2-1

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Ratio1</u>	<u>Ratio2</u>	<u>Sample</u>
3520.00	S/Sst	0.32	1.00	0136-4
3640.00	bulk	0.18	1.00	0311-0
3755.00	Sh/Clst	0.33	1.00	0168-2
4370.00	Coal	1.00	-	0283-5
4477.00	Sh/Clst	1.00	-	0305-2

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

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

Table 10F: Raw GCMS triterpane data (peak height) SIR for Well NOCS 6507/2-1

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Depth unit of measure: m

Depth	Lithology	p	q	r	s	t	a	b	z	c	Sample
		x	d	e	f	g	h	i	jl		
		j2	k1	k2	l1	l2	m1	m2			
3520.00	S/Sst	273724.3	154157.6	68767.9	122072.6	44502.3	194264.6	284340.0	72361.3	634514.4	0136-4
		78545.3	106600.9	975146.3	165215.7	323610.0	240579.5	58678.5	169776.7		
		107307.8	89986.2	60790.4	50052.4	31620.9	30100.0	20074.5			
3640.00	bulk	605138.4	298270.4	116756.8	379288.1	71006.3	473759.1	681951.1	43184.0	1768834.8	0311-0
		296205.3	167614.1	3458005.8	376077.3	1288637.5	830378.9	161993.5	635323.9		
		398858.3	323727.6	209656.8	188784.2	121180.8	84802.8	54185.0			
3755.00	Sh/Clst	691990.9	369591.3	188650.4	324790.4	130547.2	397332.8	395690.3	64510.1	985247.3	0168-2
		233724.4	100208.1	2298616.0	203906.8	761579.8	496632.8	97718.5	412419.9		
		250684.8	203113.7	134351.2	96819.1	53686.4	37055.6	24520.3			
4370.00	Coal	982477.4	389630.0	213241.6	711420.5	132515.4	477043.5	336007.1	87319.8	601005.9	0283-5
		642873.1	104115.8	978091.5	104480.3	369613.1	241792.8	81084.9	224637.9		
		146119.9	89514.4	62366.7	37833.1	24634.2	18573.0	10676.0			
4477.00	Sh/Clst	87307.4	37600.0	13411.9	17818.0	7784.5	19125.6	22087.9	8898.7	47400.2	0305-2
		6245.5	7758.1	85895.3	9739.2	25250.1	21245.7	4906.5	14937.3		
		9623.7	8397.0	5416.0	4745.2	5138.7	5303.3	4509.8			

Depth unit of measure: m

Depth	Lithology	u	v	a	b	c	d	e	f	g	Sample
		h	i	j	k	l	m	n	o		
		p	q	r	s	t					
3520.00	S/Sst	265472.0	72238.9	189401.8	119381.9	51164.0	55101.4	89373.4	61430.6	62805.1	0136-4
		137472.6	96743.0	87200.0	111444.0	46605.3	35797.9	61222.4	77460.5		
		39691.3	51338.7	90179.7	75165.5	73426.0					
3640.00	bulk	538155.7	177457.9	300354.5	194035.5	82013.2	81238.8	129078.8	88007.0	102101.1	0311-0
		263701.1	140053.1	80435.5	187955.5	70120.3	42014.3	76491.6	95429.9		
		30873.7	82535.2	132990.3	116454.9	83618.1					
3755.00	Sh/Clst	351595.8	147326.5	216817.8	141265.8	60568.4	75353.1	96509.7	72176.0	82578.3	0168-2
		146464.6	123718.6	64453.7	117052.3	47173.9	50661.9	80229.9	95269.9		
		33584.4	72057.1	99449.1	90598.9	58196.8					
4370.00	Coal	377481.6	185797.6	126742.0	84551.0	41270.7	53534.3	88744.3	71645.9	96245.7	0283-5
		184840.4	144482.2	84995.6	186251.2	65450.8	64796.7	91729.5	140956.7		
		44982.2	99040.9	197303.3	194594.3	125028.0					
4477.00	Sh/Clst	61133.9	18879.0	20367.8	10174.9	6521.9	5705.0	8273.0	6122.9	7649.0	0305-2
		13661.3	12601.9	8867.8	10189.7	4266.2	5294.3	8567.8	11474.2		
		5124.8	5506.1	10350.3	7735.0	10813.6					

Table 10H: Raw GCMS triaromatic sterane data (peak height) for Well NOCS 6507/2-1

Depth unit of measure: m

Depth	Lithology	a1	b1	c1	d1	e1	f1	g1	Sample
3520.00	S/Sst	305894.1	163280.0	37022.3	94693.6	65265.8	51384.5	44115.6	0136-4
3640.00	bulk	611703.9	411013.8	86139.6	241751.3	179613.2	144754.0	155949.5	0311-0
3755.00	Sh/Clst	429076.2	283430.0	37207.1	79889.8	65265.4	59009.3	75363.2	0168-2
4370.00	Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0283-5
4477.00	Sh/Clst	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0305-2

Table 10I: Raw GCMS monoaromatic sterane data (peak height) for Well NOCS 6507/2-1

Depth unit of measure: m

Depth	Lithology	a1	b1	c1	d1	e1	f1	g1	h1	i1	Sample
3520.00	S/Sst	104150.1	42547.6	23300.5	15331.3	43394.7	9194.1	30270.3	16691.8	0.0	0136-4
3640.00	bulk	66262.1	34944.9	41525.6	26552.2	44822.0	7112.8	36257.4	17631.1	0.0	0311-0
3755.00	Sh/Clst	38192.1	21682.1	25084.2	18265.3	46582.9	5738.7	43716.4	17703.7	0.0	0168-2
4370.00	Coal	0.0	0.0	26066.1	0.0	41973.2	0.0	0.0	31273.7	0.0	0283-5
4477.00	Sh/Clst	10401.0	4121.7	3641.0	5539.4	14059.4	0.0	5754.9	6561.4	0.0	0305-2