

Well: 25/6-2

Date	Hole size	Hole depth	Mud weight	PV	YP	Gel strength	pH	Alkalinity Pf /Mf	Ca++ mg/l	Cl- mg/l	Sand %	Solids %	Mudtype
920424						/		/					SPUD MUD
920425	PSPUD		1.03			/		/				3.0	SPUD MUD
920426	9 7/8"		1.03			/	9.8	/				3.0	SPUD MUD
920427	36"		1.03			/	9.7	/				3.0	SPUD MUD
920428	36"		1.15	5.0	14.0	11/13	9.7	/				7.0	SPUD MUD
920429	26"	370.0	1.15	6.0	15.0	12/16	8.9	/		18000		8.0	GEL MUD
920430	17 1/2"	798.0	1.15	4.0	24.0	12/23	8.9	/		18500	.1	8.0	GEL MUD
920501	17 1/2"	1045.0	1.15	4.0	24.0	18/18	8.8	/		19000	.0	8.0	GEL MUD
920502	17 1/2"	1045.0	1.15	4.0	43.0	21/24	8.4	/		19000	.2	8.0	GEL MUD
920503	26"	1045.0	1.16	9.0	8.0	3/15	7.6	/		19000	.2	8.0	GEL MUD
920504	26"	1045.0	1.19	20.0	10.0	3/12	8.0	/		18000		8.0	GEL MUD
920505	26"	1046.0	1.19	20.0	10.0	3/12	8.0	/		18000		9.0	GEL MUD
920506	26"	1046.0	1.25	14.0	6.0	1/2	8.1	/1.2	340	64000		10.0	KCL MUD
920507	17 1/2"	1328.0	1.30	22.0	8.0	2/9	8.2	/.9	440	67500	.1	12.0	KCL MUD
920508	17 1/2"	1388.0	1.35	25.0	17.0	4/11	8.1	/.7	400	7200	.1	15.0	KCL MUD
920509	17 1/2"	1609.0	1.35	31.0	19.0	3/19	7.6	/.6	720	73000	.1	16.0	KCL MUD
920510	17 1/2"	1740.0	1.35	32.0	21.0	3/18	8.0	/.7	520	72000	.2	16.0	KCL MUD
920511	17 1/2"	1911.0	1.35	35.0	23.0	3/12	8.2	/.7	480	69000	.1	16.0	KCL MUD
920512	17 1/2"	2050.0	1.35	32.0	23.0	4/10	8.1	/.6	560	66000	.2	15.0	KCL MUD
920513	17 1/2"	2050.0	1.35	34.0	30.0	4/11	8.1	/.6	520	60000	.2	15.0	KCL MUD
920514	17 1/2"	2050.0	1.35	35.0	29.0	4/12	8.0	/.6	640	57000	.2	15.0	KCL MUD
920515	17 1/2"	2050.0	1.20	20.0	12.0	2/3	8.3	/.6	400	65000		10.0	KCL MUD
920516	12 1/4"	2225.0	1.20	24.0	20.0	3/5	8.7	/1.1	480	66000	.2	10.0	KCL MUD
920517	12 1/4"	2266.0	1.20	24.0	17.0	3/5	8.4	/.9	440	63000	.1	10.0	KCL MUD
920518	12 1/4"	2266.0	1.20	23.0	18.0	3/5	8.6	.1/1.2	400	65000	.1	10.0	KCL MUD
920519	12 1/4"	2266.0	1.20	22.0	17.0	3/4	8.5	/1.0	400	65000	.1	10.0	KCL MUD
920520	12 1/4"	2266.0	1.20	22.0	17.0	3/4	8.5	/1.0	400	65000	.1	10.0	KCL MUD

Well: 25/6-2

Date	Hole size	Hole depth	Mud weight	PV	YP	Gel strength	pH	Alkalinity Pf /Mf	Ca++ mg/l	Cl- mg/l	Sand %	Solids %	Mudtype
920521	12 1/4"	2266.0	1.20	23.0	17.0	3/4	8.4	/1.0	280	65000	.1	10.0	KCL MUD
920522	12 1/4"	2266.0	1.20	26.0	19.0	3/7	8.4	.1/1.4	360	67000	.2	10.0	KCL MUD
920523	12 1/4"	2266.0	1.20	26.0	18.0	3/7	8.5	.1/1.4	340	67000	.1	10.0	KCL MUD
920524	12 1/4"	2392.0	1.20	26.0	17.0	3/8	8.5	.1/1.4	340	67500	.1	10.0	KCL MUD
920525	P&A	2392.0	1.20	25.0	16.0	3/6	8.4	.1/1.2	320	67000	.1	10.0	KCL MUD
920526	P&A	2392.0	1.20	25.0	16.0	3/6	8.4	.1/1.2	320	67000	.1	10.0	KCL MUD
920527	P&A	2392.0	1.20	25.0	16.0	3/6	8.4	.1/1.2	320	67000	.1	10.0	KCL MUD
920528	P&A					/		/					KCL MUD
920529	P&A					/		/					KCL MUD

Well : 25/6-2

---

Materials	Unit	36" Hole	26" Hole	17 1/2" Hole	12 1/4" Hole	Total
Agipac LV.	25 kg	-	-	432	55	487
Agipak Reg.	25 kg	-	137	310	-	447
Barite	MT	39	191	182	10	422
Bentonite	MT	17	28	-	-	45
Caustic Soda	25 kg	3	39	-	-	42
Citric Acid	25 kg	-	-	12	32	44
Drispac Reg.	50 lb	-	-	15	13	28
Desco CF	25 lb	-	113	-	-	113
Detergent	drm	-	-	5	-	5
KCL - sxs	25 kg	-	-	500	-	500
KCl Brine	m3	-	-	421	6	427
Poly Plus	25 kg	-	-	82	6	88
Pot. Bicarbonat	25 kg	-	-	21	52	73
Sil. Defoam	drm	-	-	2	-	2
Soda Ash	25 kg	3	6	34	26	69
Sodium Bicarbon	25 kg	-	-	16	23	39
Xanthan Gum	25 kg	-	26	34	20	80

---

BA-92-2395-1

17 NOV 1992

REGISTRERT

OLJEDIREKTORATET

## Geochemical Report for Well NOCS 25/6-2

**Authors:**

Henning Jensen

Sunil Bharati

Peter B. Hall

Geolab Nor A/S

P.O. Box 5740 Fossegrenda

7002 Trondheim

Norway

**Date :**

04.11.92

## Chapter 1

# INTRODUCTION

### 1.1 General Comments

The geochemical study for NOCS 25/6-2 was carried out on behalf of Saga Petroleum, with emphasis on the thermal maturity and geochemical analyses of the claystones for source rock potential. The well was reported to be dry, hence migrated hydrocarbons was not analysed.

Well NOCS 25/6-2 is situated to the east of the Heimdal condensate and oil fields (Figure 1) in block 25/6. A total of 237 samples (212 wet canned samples, 19 vitrinite blocks and six solvent extracts from side wall core claystones) was received by Geolab Nor for geochemical analyses. First, the gas analyses were carried out according to a sampling interval decided by Saga Petroleum, and the following Rock-Eval analyses and solvent extraction program was carried out in agreement with Saga Petroleum. For the detailed analytical program, both side wall core samples and cuttings samples were used.

The report is presented chapter and section wise, in a chronological order of analyses carried out, beginning with lithologic descriptions, screening analyses and followed by the detailed follow-up analyses. Within each section the results are discussed in a stratigraphic context (top to bottom).

## 1.2 Analytical Program

In accordance with the contract, sample availability and the screening analyses results, the following analytical program was executed for well NOCS 25/6-2 in the section from 1000 m to 2397 m (TD):

<u>Analysis type</u>	<u>No of samples</u>	<u>Figures</u>	<u>Tables</u>
Headspace and Occluded Gas	46	2a-c	1a-c
Headspace Gas Isotopes ( $\delta^{13}\text{C}_1\text{-C}_4$ , $\delta\text{HC}_1$ )	4		1d-e
Washing	47		
Lithology description	47		2
Rock-Eval/TOC	20	3,4,5,6	3
Soxhlet Extraction of organic matter	8		
MPLC/HPLC separation	14		4a-d
Saturated hydrocarbon GC	14	7a-d	5
Aromatic hydrocarbon GC	14	8a-d	6
Vitrinite reflectance	19	9	7
Isotope Composition of $\text{C}_{15+}$ fractions	14	10,11	8a-b
GC/MS of saturated and aromatic HC	10	12a-n	9a-i

All the cuttings samples were supplied by Saga Petroleum a.s. as wet canned samples and total extractable organic matter from shale samples. The stratigraphy was also supplied by the client. The stratigraphic information in this report is based on the information tops contained therein.

- 1-

Table 1a: C1 to C7 hydrocarbons in HEADSPACE gas  
( $\mu$ l gas/kg rock)

Project: 25/6-2

Well: 25/6-2

Depth unit of measure: m

\* Indicated values in ml gas/kg rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 --- nC4
1000.00	62180	31	10	1	2	32	62224	44	0.1	0.50
1040.00	2927	2	1	-	-	6	2930	3	0.1	-
1080.00	729	6	3	-	1	6	739	10	1.4	-
1120.00	549	7	3	1	2	9	562	13	2.3	0.50
1160.00	413	4	2	1	1	5	421	8	1.9	1.00
1200.00	178	7	4	1	3	27	193	15	7.8	0.33
1240.00	747	2	1	-	1	1	751	4	0.5	-
1280.00	494	4	2	-	1	1	501	7	1.4	-
1320.00	265	2	2	1	1	2	271	6	2.2	1.00
1360.00	403	4	3	2	2	6	414	11	2.7	1.00
1400.00	826	9	8	5	5	18	853	27	3.2	1.00
1440.00	2250	29	13	14	11	44	2317	67	2.9	1.27
1480.00	8779	79	39	17	13	20	8927	148	1.7	1.31
1520.00	3454	29	11	6	5	8	3505	51	1.5	1.20
1560.00	1296	18	5	3	2	4	1324	28	2.1	1.50
1610.00	2322	24	5	2	2	2	2355	33	1.4	1.00
1640.00	4363	53	7	-	1	2	4424	61	1.4	-
1680.00	6	-	-	-	-	1	6	-	-	-
1720.00	7	3	-	-	-	2	10	3	30.0	-
1760.00	171	9	3	1	1	9	185	14	7.6	1.00
1800.00	1226	34	8	2	2	2	1272	46	3.6	1.00
1840.00	1107	43	11	3	3	2	1167	60	5.1	1.00
1880.00	731	79	45	20	23	41	898	167	18.6	0.87

- 2-

Table 1a: C1 to C7 hydrocarbons in HEADSPACE gas  
( $\mu$ l gas/kg rock)

Project: 25/6-2

Well: 25/6-2

Depth unit of measure: m \* Indicated values in ml gas/kg rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 --- nC4
1920.00	1283	31	7	2	2	2	1325	42	3.2	1.00
1960.00	5691	698	182	25	31	30	6627	936	14.1	0.81
2000.00	142	50	56	15	24	95	287	145	50.5	0.63
2040.00	12857	2789	1939	231	347	337	18163	5306	29.2	0.67
2100.00	604	93	251	93	221	235	1262	658	52.1	0.42
2140.00	356	61	212	86	208	233	923	567	61.4	0.41
2180.00	497	73	157	44	100	70	871	374	42.9	0.44
2200.00	12	4	21	-	41	99	78	66	84.6	-
2220.00	114	36	118	40	85	71	393	279	71.0	0.47
2260.00	420	130	279	-	167	141	996	576	57.8	-
2270.00	385	70	162	33	76	24	726	341	47.0	0.43
2280.00	5855	2350	1481	187	374	373	10247	4392	42.9	0.50
2290.00	1573	607	502	-	167	338	2849	1276	44.8	-
2300.00	1879	740	611	104	209	376	3543	1664	47.0	0.50
2310.00	7516	2276	1649	248	425	589	12114	4598	38.0	0.58
2320.00	45465	10845	8616	1267	1598	968	67791	22326	32.9	0.79
2330.00	6915	1880	1326	153	205	73	10479	3564	34.0	0.75
2340.00	682	473	515	-	-	268	1670	988	59.2	-
2350.00	3706	1140	1041	164	199	115	6250	2544	40.7	0.82
2360.00	5077	1900	1651	242	265	262	9135	4058	44.4	0.91
2370.00	6847	2559	2650	441	466	350	12963	6116	47.2	0.95
2380.00	8534	2679	2260	287	271	106	14031	5497	39.2	1.06
2390.00	4111	1902	1990	311	322	181	8636	4525	52.4	0.97



- 1-

Table 1b: C1 to C7 hydrocarbons in CUTTINGS gas  
( $\mu$ l gas/kg rock)

Project: 25/6-2

Well: 25/6-2

Depth unit of measure: m

\* Indicated values in ml gas/kg source rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 --- nC4
1000.00	85	11	17	6	15	36	134	49	36.6	0.40
1040.00	49	5	2	-	1	2	57	8	14.0	-
1080.00	24	3	1	-	1	4	29	5	17.2	-
1120.00	34	4	2	-	1	5	41	7	17.1	-
1160.00	17	2	1	-	1	5	21	4	19.1	-
1200.00	27	4	2	-	1	3	34	7	20.6	-
1240.00	41	5	3	1	1	7	51	10	19.6	1.00
1280.00	29	4	2	-	1	5	36	7	19.4	-
1320.00	38	5	3	1	2	23	49	11	22.5	0.50
1360.00	-	-	-	-	-	-	-	-	-	-
1400.00	34	5	3	2	3	19	47	13	27.7	0.67
1440.00	54	6	9	9	10	30	88	34	38.6	0.90
1480.00	108	10	14	13	15	51	160	52	32.5	0.87
1520.00	40	5	4	3	4	26	56	16	28.6	0.75
1560.00	11	1	1	1	1	4	15	4	26.7	1.00
1610.00	31	3	3	2	2	12	41	10	24.4	1.00
1640.00	31	4	3	1	1	12	40	9	22.5	1.00
1680.00	23	3	3	1	2	11	32	9	28.1	0.50
1720.00	11	1	1	-	1	3	14	3	21.4	-
1760.00	19	3	1	-	1	5	24	5	20.8	-
1800.00	29	4	2	1	1	6	37	8	21.6	1.00
1840.00	15	3	3	2	3	4	26	11	42.3	0.67
1880.00	24	4	2	1	3	12	34	10	29.4	0.33

- 2 -

Table 1b: C1 to C7 hydrocarbons in CUTTINGS gas  
( $\mu\text{l}$  gas/kg rock)

Project: 25/6-2

Well: 25/6-2

Depth unit of measure: m

\* Indicated values in ml gas/kg source rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 --- nC4
1920.00	28	4	2	1	1	4	36	8	22.2	1.00
1960.00	60	50	82	31	55413	1	55636	55576	99.9	-
2000.00	44	105	267	70	137	316	623	579	92.9	0.51
2040.00	10	18	41	5	12	14	86	76	88.4	0.42
2100.00	14	3	36	29	120	333	202	188	93.1	0.24
2140.00	18	5	60	54	203	494	340	322	94.7	0.27
2180.00	38	15	102	55	185	239	395	357	90.4	0.30
2200.00	28	8	89	69	238	439	432	404	93.5	0.29
2220.00	21	4	10	9	38	178	82	61	74.4	0.24
2260.00	22	6	24	13	52	107	117	95	81.2	0.25
2270.00	11	2	18	20	83	301	134	123	91.8	0.24
2280.00	100	369	1064	268	691	774	2492	2392	96.0	0.39
2290.00	1187	1923	2908	578	1201	1143	7797	6610	84.8	0.48
2300.00	994	2052	3420	724	1502	1260	8692	7698	88.6	0.48
2310.00	1057	174	2835	569	1082	727	5717	4660	81.5	0.53
2320.00	1342	1814	3096	557	757	325	7566	6224	82.3	0.74
2330.00	167	500	1205	271	456	660	2599	2432	93.6	0.59
2340.00	194	483	1144	271	537	464	2629	2435	92.6	0.50
2350.00	245	412	963	207	344	215	2171	1926	88.7	0.60
2360.00	159	323	1005	229	363	287	2079	1920	92.4	0.63
2370.00	79	153	593	159	251	249	1235	1156	93.6	0.63
2380.00	43	27	212	85	137	292	504	461	91.5	0.62
2390.00	63	99	409	114	179	199	864	801	92.7	0.64

- 1-

Table 1c: C1 to C7 hydrocarbons in HEADSPACE and CUTTINGS gas  
( $\mu\text{l}$  gas/kg rock)

Project: 25/6-2

Well: 25/6-2

Depth unit of measure: m

\* Indicated values in ml gas/kg source rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 --- nC4
1000.00	62265	42	27	7	17	68	62358	93	0.2	0.41
1040.00	2976	7	3	-	1	8	2987	11	0.4	-
1080.00	753	9	4	-	2	10	768	15	2.0	-
1120.00	583	11	5	1	3	14	603	20	3.3	0.33
1160.00	430	6	3	1	2	10	442	12	2.7	0.50
1200.00	205	11	6	1	4	30	227	22	9.7	0.25
1240.00	788	7	4	1	2	8	802	14	1.8	0.50
1280.00	523	8	4	-	2	6	537	14	2.6	-
1320.00	303	7	5	2	3	25	320	17	5.3	0.67
1360.00	403	4	3	2	2	6	414	11	2.7	1.00
1400.00	860	14	11	7	8	37	900	40	4.4	0.88
1440.00	2304	35	22	23	21	74	2405	101	4.2	1.10
1480.00	8887	89	53	30	28	71	9087	200	2.2	1.07
1520.00	3494	34	15	9	9	34	3561	67	1.9	1.00
1560.00	1307	19	6	4	3	8	1339	32	2.4	1.33
1610.00	2353	27	8	4	4	14	2396	43	1.8	1.00
1640.00	4394	57	10	1	2	14	4464	70	1.6	0.50
1680.00	29	3	3	1	2	12	38	9	23.7	0.50
1720.00	18	4	1	-	1	5	24	6	25.0	-
1760.00	190	12	4	1	2	14	209	19	9.1	0.50
1800.00	1255	38	10	3	3	8	1309	54	4.1	1.00
1840.00	1122	46	14	5	6	6	1193	71	6.0	0.83

- 2-

Table 1c: C1 to C7 hydrocarbons in HEADSPACE and CUTTINGS gas  
( $\mu$ l gas/kg rock)

Project: 25/6-2

Well: 25/6-2

Depth unit of measure: m

\* Indicated values in ml gas/kg source rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 --- nC4
1880.00	755	83	47	21	26	53	932	177	19.0	0.81
1920.00	1311	35	9	3	3	6	1361	50	3.7	1.00
1960.00	5751	748	264	56	55444	31	62263	56512	90.8	-
2000.00	186	155	323	85	161	411	910	724	79.6	0.53
2040.00	12867	2807	1980	236	359	351	18249	5382	29.5	0.66
2100.00	618	96	287	122	341	568	1464	846	57.8	0.36
2140.00	374	66	272	140	411	727	1263	889	70.4	0.34
2180.00	535	88	259	99	285	309	1266	731	57.7	0.35
2200.00	40	12	110	69	279	538	510	470	92.2	0.25
2220.00	135	40	128	49	123	249	475	340	71.6	0.40
2260.00	442	136	303	13	219	248	1113	671	60.3	0.06
2270.00	396	72	180	53	159	325	860	464	54.0	0.33
2280.00	5955	2719	2545	455	1065	1147	12739	6784	53.3	0.43
2290.00	2760	2530	3410	578	1368	1481	10646	7886	74.1	0.42
2300.00	2873	2792	4031	828	1711	1636	12235	9362	76.5	0.48
2310.00	8573	2450	4484	817	1507	1316	17831	9258	51.9	0.54
2320.00	46807	12659	11712	1824	2355	1293	75357	28550	37.9	0.77
2330.00	7082	2380	2531	424	661	733	13078	5996	45.9	0.64
2340.00	876	956	1659	271	537	732	4299	3423	79.6	0.50
2350.00	3951	1552	2004	371	543	330	8421	4470	53.1	0.68
2360.00	5236	2223	2656	471	628	549	11214	5978	53.3	0.75
2370.00	6926	2712	3243	600	717	599	14198	7272	51.2	0.84

- 3-

Table 1c: C1 to C7 hydrocarbons in HEADSPACE and CUTTINGS gas  
( $\mu$ l gas/kg rock)

Project: 25/6-2

Well: 25/6-2

Depth unit of measure: m \* Indicated values in ml gas/kg source rock

Depth	C1	C2	C3	iC4	nC4	C5+	sum C1-C4	sum C2-C4	%wet ness	iC4 nC4
2380.00	8577	2706	2472	372	408	398	14535	5958	41.0	0.91
2390.00	4174	2001	2399	425	501	380	9500	5326	56.1	0.85

Table 1d: Isotope GC Analysis of Headspace Gas for well 25/6-2.

Depth	n-C1	n-C2	n-C3	i-C4	n-C4
2170m	-30.1	-14.3	-19.7	-22.3	-26.1
2270m	-53.4	-31.2	-27.9	-28.1	-30.1
2330m	-44.2	-32.3	-32.0	-30.5	-34.2
2380m	-47.1	-33.2	-31.5	-31.4	-34.1

Table 1e: Hydrogen Isotope Values for Headspace Methane for well  
25/6-2.

Depth	H
2170m	-157
2270m	-154
2330m	-209
2380m	-177

- 1-

Table 2 : Lithology description for well NOCS 25/6-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
1000.00						0001
				50 S/Sst : w, f, crs, l		0001-1L
				50 Sh/Clst: brn gy to gy blk to dsk gn, slt, mic, fos, glauc		0001-2L
1040.00						0002
				90 Sh/Clst: brn gy to lt brn gy to dsk gn, slt, mic, fos, glauc		0002-1L
				10 S/Sst : w, f, l		0002-2L
1080.00						0003
	0.86			90 Sh/Clst: brn gy to m gy, slt, mic, fos, glauc		0003-1L
				10 Sltst : lt gy w to lt gy		0003-2L
				tr S/Sst : w, f, l		0003-3L
				tr Cont : prp		0003-4L
1120.00						0004
				70 S/Sst : w, f, crs, l		0004-1L
				30 Sh/Clst: brn gy to m gy, slt, glauc		0004-2L
				tr Cont : prp		0004-3L
1160.00						0005
				90 Sh/Clst: brn gy to m gy, slt, glauc		0005-1L
				10 S/Sst : w, f, l		0005-2L
				tr Cont : prp		0005-3L



- 2-

Table 2 : Lithology description for well NOCS 25/6-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int Cvd	TOC%	%	Lithology description				
1200.00			Hord	Oligocene-Eocene		0006	
		100	Sh/Clst: brn gy to m gy to dsk gn, slt, fos, glauc			0006-1L	
			tr S/Sst	: w, f, l		0006-2L	
			tr Cont	: prp		0006-3L	
1240.00						0007	
	1.52	95	Sh/Clst: m gy to brn gy, slt, fos			0007-1L	
		5	S/Sst : w, crs, l			0007-2L	
			tr Cont	: prp		0007-3L	
1280.00						0008	
		90	Sh/Clst: lt brn gy to brn gy to lt gy, pyr, slt, mic			0008-1L	
		10	S/Sst : w, f, crs, l			0008-2L	
1320.00						0009	
		100	Sh/Clst: m gy to brn gy, pyr, slt, mic			0009-1L	
1360.00			Hord	Oligocene-Eocene		0010	
		100	Sh/Clst: m gy to brn gy, pyr, slt, mic			0010-1L	
1400.00						0011	
	1.23	90	Sh/Clst: m gy to brn gy to drk gy, pyr, slt, mic			0011-1L	
		10	Slstst : lt gy w to lt gy, glauc			0011-2L	
			tr Cont	: prp		0011-3L	

- 3-

Table 2 : Lithology description for well NOCS 25/6-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology	description	
1440.00			Hord	Oligocene-Eocene		0012
			95	Sh/Clst: m gy to brn gy to drk gy, pyr,		0012-1L
				slt, mic		
			5	Cont : bar, prp		0012-2L
1480.00						0013
	1.06		100	Sh/Clst: m gy to brn gy to drk gy, pyr,		0013-1L
				slt, fos		
			tr	Cont : bar, prp		0013-2L
1520.00						0014
			100	Sh/Clst: m gy to lt gy to brn gy, pyr, slt		0014-1L
			tr	Cont : bar, prp		0014-2L
1560.00						0015
			100	Sh/Clst: m gy to lt gy, pyr, slt		0015-1L
			tr	Cont : bar, prp		0015-2L
			tr	Sh/Clst: or gy to y gy, slt		0015-3L
1610.00						0016
			85	Sh/Clst: m gy to lt gy		0016-1L
			15	Sh/Clst: brn gy to lt brn gy, slt, mic,		0016-2L
				glauc		
1640.00						0017
			95	Sh/Clst: m gy to lt gy		0017-1L
			5	Sh/Clst: brn gy to lt brn gy, slt, mic,		0017-2L
				glauc		
			tr	Sh/Clst: or gy to y gy, slt		0017-3L
			tr	Sltst : lt gy to m gy, mic		0017-4L

- 4-

Table 2 : Lithology description for well NOCS 25/6-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
1680.00						0018
	0.45			85 Sh/Clst: m gy to brn gy, pyr 10 S/Sst : w, f, l 5 Sh/Clst: brn gy, slt, mic		0018-1L 0018-2L 0018-3L
1720.00						0019
				100 Sh/Clst: m gy to brn gy, pyr, fe tr Sltst : y gy to lt gy w		0019-1L 0019-2L
1760.00						0020
				100 Sh/Clst: m gy to ol gy, slt, mic, fe		0020-1L
1800.00						0021
				100 Sh/Clst: m gy to lt gy to brn gy, calc		0021-1L
1840.00						0022
	0.23			100 Sh/Clst: m gy to gy brn to lt gy, pyr, slt		0022-1L
1880.00						0023
				90 Sh/Clst: brn gy, pyr, slt 10 Sh/Clst: lt gy		0023-1L 0023-2L
1920.00						0024
				60 Sh/Clst: brn gy to gy brn, pyr, slt 25 Sh/Clst: lt gy to lt gn gy 10 Sh/Clst: drk brn to m brn, slt 5 Sh/Clst: lt gy w		0024-1L 0024-2L 0024-3L 0024-4L

- 5-

Table 2 : Lithology description for well NOCS 25/6-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
1960.00						0025
				90 Sh/Clst: m gy to lt gy to gy brn, pyr, slt		0025-1L
				5 Sltst : lt gy w to drk gy		0025-2L
				5 Sh/Clst: lt gy w, calc		0025-3L
				tr Sh/Clst: drk brn, slt		0025-4L
2000.00						0026
				95 Sh/Clst: m gy to lt gy to gy brn, pyr, slt		0026-1L
				5 Ca : lt gy w to y gy, f		0026-2L
2040.00						0027
				100 Sh/Clst: lt gy to m gy, slt, mic		0027-1L
				tr Ca : y gy, f		0027-2L
2100.00						0028
				70 Sh/Clst: lt gy to m gy		0028-1L
				30 Sh/Clst: gy brn to brn gy to lt brn gy		0028-2L
				tr Cont : prp		0028-3L
2140.00						0029
				80 Sh/Clst: lt gy to m gy		0029-1L
				20 Sh/Clst: gy brn to brn gy to m brn, slt		0029-2L
				tr Cont : prp		0029-3L
				tr Sltst : lt gy w, mic		0029-4L
2170.00						0069
	0.60			75 Sh/Clst: m gy to m drk gy		0069-1L
				15 Sh/Clst: lt bl gy, calc		0069-2L
				10 S/Sst : w, lt gy, slt		0069-3L
				tr Sh/Clst: gy red, dsk y brn		0069-4L

- 6-

Table 2 : Lithology description for well NOCS 25/6-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2180.00						0030
				75 Sh/Clst: lt gy to m gy to drk gy		0030-1L
				25 S/Sst : w, calc, f, crs		0030-2L
2200.00						0031
				70 Sh/Clst: lt gy to m gy to gn gy		0031-1L
				30 S/Sst : w, pyr, crs		0031-2L
2220.00						0032
				80 Ca : w to or gy, chk		0032-1L
				20 Sh/Clst: m gy to drk gy, slt		0032-2L
				tr Sh/Clst: drk brn, slt		0032-3L
				tr Cont : prp		0032-4L
2260.00						0033
				65 Sh/Clst: lt gy to m gy to lt gn gy, slt		0033-1L
				15 Sh/Clst: m brn to drk brn, slt		0033-2L
				15 Sh/Clst: w, chk		0033-3L
				5 Sltst : m gy to lt gy, mic		0033-4L
				tr Cont : prp		0033-5L
2270.00						0070
	0.44			55 Sh/Clst: m gy to m drk gy		0070-1L
				25 Ca : w		0070-5L
				15 Sh/Clst: lt bl gy, calc		0070-2L
				5 Sh/Clst: gy red, dsk y brn		0070-4L
				tr S/Sst : w to lt gy, slt		0070-3L
				tr Other : pyr		0070-6L

- 7-

Table 2 : Lithology description for well NOCS 25/6-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample	
Int Cvd	TOC%	%	Lithology description				
2280.00						0034	
	4.51	70	Sh/Clst: drk gy to m gy, slt			0034-1L	
		25	Sh/Clst: lt gy to lt gn gy to gn gy, slt			0034-2L	
		5	Ca : w, chk			0034-3L	
		tr	Cont : prp			0034-4L	
2290.00						0035	
	7.15	85	Sh/Clst: gy blk to drk gy, slt			0035-1L	
		5	Sh/Clst: lt gy to lt gn gy to gn gy, slt			0035-2L	
		5	Ca : w, chk			0035-3L	
		5	Cont : prp, bar			0035-4L	
2300.00						0036	
	6.63	95	Sh/Clst: gy blk to drk gy, slt			0036-1L	
		5	Sh/Clst: lt gy to lt gn gy to gn gy, slt			0036-2L	
		tr	Ca : w, chk			0036-3L	
		tr	Cont : prp, bar			0036-4L	
2310.00						0037	
	5.81	85	Sh/Clst: gy blk to drk gy, slt			0037-1L	
		10	Sh/Clst: lt gy to lt gn gy to gn gy, slt			0037-2L	
		5	Cont : prp, bar			0037-3L	
2320.00						0038	
	7.17	85	Sh/Clst: gy blk to drk gy, slt			0038-1L	
		5	Sh/Clst: lt gy to lt gn gy to gn gy, slt			0038-2L	
		5	Slst : lt gy			0038-3L	
		5	Cont : prp, bar			0038-4L	

- 8-

Table 2 : Lithology description for well NOCS 25/6-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
2330.00						0071
	5.95	50	Sh/Clst:	drk gy to dsk y brn, mic		0071-1L
		20	S/Sst :	w to lt gy to lt brn gy, mic		0071-3L
		15	Sh/Clst:	lt bl gy, calc		0071-2L
		15	Ca :	w		0071-4L
		tr	Other :	pyr		0071-5L
2340.00						0039
	4.65	85	Sh/Clst:	m gy to drk gy to lt gy, pyr, slt		0039-1L
		10	Slstst :	lt gy w to lt gy		0039-2L
		5	Sh/Clst:	drk brn, slt		0039-3L
2350.00						0040
	3.76	75	Sh/Clst:	m gy to drk gy to lt gy, pyr, slt		0040-1L
		25	Slstst :	lt gy w to lt gy		0040-2L
		tr	Sh/Clst:	drk brn, slt		0040-3L
		tr	Cont :	prp		0040-4L
2360.00						0041
	1.36	70	Sh/Clst:	m gy to drk gy to lt gy, pyr, slt		0041-1L
		20	Slstst :	lt gy w to lt gy		0041-2L
		5	Sh/Clst:	drk brn, slt		0041-3L
		5	Other :	pl y brn, dol		0041-4L
		tr	Cont :	prp		0041-5L
2370.00						0042
	2.15	65	Sh/Clst:	m gy to drk gy to lt gy, pyr, slt		0042-1L
		30	Slstst :	lt gy w to lt gy		0042-2L
		5	Other :	pl y brn, dol		0042-3L
		tr	Cont :	prp		0042-4L

Table 2 : Lithology description for well NOCS 25/6-2

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int Cvd	TOC%	%	Lithology description			
2380.00						0072
	0.95	65	Sh/Clst: m gy to drk gy, mic			0072-1L
		15	Sh/Clst: lt bl gy, calc			0072-2L
		10	S/Sst : w to lt gy to lt brn gy, mic			0072-3L
		10	Ca : drk y brn, dol			0072-6L
		tr	Ca : w			0072-4L
		tr	Other : pyr			0072-5L
2390.00						0043
	1.66	60	Sh/Clst: m gy to drk gy to lt gy, pyr, slt			0043-1L
		35	Slstst : lt gy w to lt gy			0043-2L
		5	Other : brn gy, dol			0043-3L
		tr	Cont : prp			0043-4L



Table 3 : Rock-Eval table for well NOCS 25/6-2

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
1080.00	cut	Sh/Clst: brn gy to m gy	0.09	1.15	1.14	1.01	0.86	134	133	1.2	0.07	425	0003-1L
1240.00	cut	Sh/Clst: m gy to brn gy	0.11	2.59	1.20	2.16	1.52	170	79	2.7	0.04	428	0007-1L
1400.00	cut	Sh/Clst: m gy to brn gy to drk gy	0.07	2.06	1.32	1.56	1.23	167	107	2.1	0.03	430	0011-1L
1480.00	cut	Sh/Clst: m gy to brn gy to drk gy	0.04	1.39	1.19	1.17	1.06	131	112	1.4	0.03	429	0013-1L
1680.00	cut	Sh/Clst: m gy to brn gy	0.02	0.26	0.94	0.28	0.45	58	209	0.3	0.07	420	0018-1L
1840.00	cut	Sh/Clst: m gy to gy brn to lt gy	-	0.12	0.69	0.17	0.23	52	300	0.1	-	421	0022-1L
2170.00	cut	Sh/Clst: m gy to m drk gy	0.01	0.20	0.57	0.35	0.60	33	95	0.2	0.05	433	0069-1L
2270.00	cut	Sh/Clst: m gy to m drk gy	0.02	0.17	1.10	0.15	0.44	39	250	0.2	0.11	431	0070-1L
2280.00	cut	Sh/Clst: drk gy to m gy	0.53	24.32	0.86	28.28	4.51	539	19	24.9	0.02	420	0034-1L
2290.00	cut	Sh/Clst: gy blk to drk gy	1.38	45.18	1.14	39.63	7.15	632	16	46.6	0.03	418	0035-1L
2300.00	cut	Sh/Clst: gy blk to drk gy	1.18	41.04	0.96	42.75	6.63	619	14	42.2	0.03	425	0036-1L
2310.00	cut	Sh/Clst: gy blk to drk gy	0.90	30.40	0.97	31.34	5.81	523	17	31.3	0.03	424	0037-1L
2320.00	cut	Sh/Clst: gy blk to drk gy	0.85	32.40	0.91	35.60	7.17	452	13	33.3	0.03	422	0038-1L
2330.00	cut	Sh/Clst: drk gy to drk y brn	0.90	27.29	0.72	37.90	5.95	459	12	28.2	0.03	416	0071-1L
2340.00	cut	Sh/Clst: m gy to drk gy to lt gy	0.56	19.97	0.72	27.74	4.65	429	15	20.5	0.03	424	0039-1L

Table 3 : Rock-Eval table for well NOCS 25/6-2

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
2350.00	cut	Sh/Clst: m gy to drk gy to lt gy	0.40	14.35	0.67	21.42	3.76	382	18	14.8	0.03	420	0040-1L
2360.00	cut	Sh/Clst: m gy to drk gy to lt gy	0.11	5.13	0.88	5.83	1.36	377	65	5.2	0.02	435	0041-1L
2370.00	cut	Sh/Clst: m gy to drk gy to lt gy	0.15	7.54	0.86	8.77	2.15	351	40	7.7	0.02	431	0042-1L
2380.00	cut	Sh/Clst: m gy to drk gy	0.08	2.87	0.81	3.54	0.95	302	85	2.9	0.03	428	0072-1L
2390.00	cut	Sh/Clst: m gy to drk gy to lt gy	0.12	3.32	1.08	3.07	1.66	200	65	3.4	0.03	434	0043-1L

Table 4 a: Weight of EOM and Chromatographic Fraction for well NOCS 25/6-2

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
1985.00	swc	Sh/clst	7.0	14.9	2.4	2.1	8.6	1.8	4.5	10.4	-	0063-0B
2048.00	swc	Sh/clst	10.0	17.5	2.9	2.4	8.4	3.8	5.3	12.2	-	0064-0B
2280.00	cut	Sh/Clst: drk gy to m gy	9.0	15.3	2.7	3.7	3.3	5.6	6.4	8.9	3.04	0034-1L
2284.00	swc	Sh/clst	8.3	40.9	3.9	6.3	18.3	12.4	10.2	30.7	-	0065-0B
2290.00	cut	Sh/Clst: gy blk to drk gy	10.4	48.4	5.8	13.0	13.8	15.8	18.8	29.6	7.16	0035-1L
2290.00	swc	Sh/clst	6.1	29.0	3.6	5.4	15.5	4.5	9.0	20.0	-	0066-0B
2300.00	cut	Sh/Clst: gy blk to drk gy	8.7	33.8	5.2	8.5	7.4	12.7	13.7	20.1	5.82	0036-1L
2310.00	cut	Sh/Clst: gy blk to drk gy	10.2	29.6	3.6	7.1	9.8	9.1	10.7	18.9	6.15	0037-1L
2320.00	cut	Sh/Clst: gy blk to drk gy	7.8	15.3	2.5	4.4	4.2	4.2	6.9	8.4	7.26	0038-1L
2323.00	swc	Sh/clst	11.9	9.7	1.5	2.3	2.3	3.6	3.8	5.9	-	0067-0B
2340.00	cut	Sh/Clst: m gy to drk gy to lt gy	12.7	11.5	1.8	2.9	2.8	4.0	4.7	6.8	2.08	0039-1L
2360.00	cut	Sh/Clst: m gy to drk gy to lt gy	10.9	4.9	1.1	1.2	1.4	1.2	2.3	2.6	1.36	0041-1L
2365.00	swc	Sh/clst	6.5	3.9	1.8	0.9	1.0	0.2	2.7	1.2	-	0068-0B
2390.00	cut	Sh/Clst: m gy to drk gy to lt gy	11.4	6.0	1.2	1.4	1.4	2.0	2.6	3.4	1.23	0043-1L

Table 4 b: Concentration of EOM and Chromatographic Fraction (wt ppm rock) for well NOCS 25/6-2

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
1985.00	swc	Sh/clst	2140	344	301	1235	258	646	1494	0063-0B
2048.00	swc	Sh/clst	1746	289	239	838	379	528	1217	0064-0B
2280.00	cut	Sh/Clst: drk gy to m gy	1692	298	409	365	619	707	984	0034-1L
2284.00	swc	Sh/clst	4933	470	759	2207	1495	1230	3703	0065-0B
2290.00	cut	Sh/Clst: gy blk to drk gy	4667	559	1253	1330	1523	1812	2854	0035-1L
2290.00	swc	Sh/clst	4746	589	883	2536	736	1472	3273	0066-0B
2300.00	cut	Sh/Clst: gy blk to drk gy	3898	599	980	853	1464	1580	2318	0036-1L
2310.00	cut	Sh/Clst: gy blk to drk gy	2910	353	698	963	894	1052	1858	0037-1L
2320.00	cut	Sh/Clst: gy blk to drk gy	1961	320	564	538	538	884	1076	0038-1L
2323.00	swc	Sh/clst	813	125	192	192	301	318	494	0067-0B
2340.00	cut	Sh/Clst: m gy to drk gy to lt gy	906	141	228	220	315	370	535	0039-1L
2360.00	cut	Sh/Clst: m gy to drk gy to lt gy	447	100	109	127	109	210	237	0041-1L
2365.00	swc	Sh/clst	603	278	139	154	30	417	185	0068-0B
2390.00	cut	Sh/Clst: m gy to drk gy to lt gy	524	104	122	122	174	227	296	0043-1L

Table 4 c: Concentration of EOM, and Chromatographic Fraction (mg/g TOC(e)) for well NOCS 25/6-2

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
1985.00	swc	Sh/clst	-	-	-	-	-	-	-	0063-0B
2048.00	swc	Sh/clst	-	-	-	-	-	-	-	0064-0B
2280.00	cut	Sh/Clst: drk gy to m gy	55.67	9.82	13.46	12.01	20.38	23.29	32.39	0034-1L
2284.00	swc	Sh/clst	-	-	-	-	-	-	-	0065-0B
2290.00	cut	Sh/Clst: gy blk to drk gy	65.19	7.81	17.51	18.59	21.28	25.32	39.87	0035-1L
2290.00	swc	Sh/clst	-	-	-	-	-	-	-	0066-0B
2300.00	cut	Sh/Clst: gy blk to drk gy	66.98	10.31	16.85	14.67	25.17	27.15	39.83	0036-1L
2310.00	cut	Sh/Clst: gy blk to drk gy	47.33	5.76	11.35	15.67	14.55	17.11	30.22	0037-1L
2320.00	cut	Sh/Clst: gy blk to drk gy	27.02	4.41	7.77	7.42	7.42	12.18	14.83	0038-1L
2323.00	swc	Sh/clst	-	-	-	-	-	-	-	0067-0B
2340.00	cut	Sh/Clst: m gy to drk gy to lt gy	43.57	6.82	10.99	10.61	15.15	17.81	25.76	0039-1L
2360.00	cut	Sh/Clst: m gy to drk gy to lt gy	32.90	7.39	8.06	9.40	8.06	15.44	17.46	0041-1L
2365.00	swc	Sh/clst	-	-	-	-	-	-	-	0068-0B
2390.00	cut	Sh/Clst: m gy to drk gy to lt gy	42.60	8.52	9.94	9.94	14.20	18.46	24.14	0043-1L

Table 4 d: Composition of material extracted from the rock (%) for well NOCS 25/6-2

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	
1985.00	swc	Sh/clst	16.11	14.09	57.72	12.08	30.20	69.80	114.29	43.27	0063-0B
2048.00	swc	Sh/clst	16.57	13.71	48.00	21.71	30.29	69.71	120.83	43.44	0064-0B
2280.00	cut	Sh/Clst: drk gy to m gy	17.65	24.18	21.57	36.60	41.83	58.17	72.97	71.91	0034-1L
2284.00	swc	Sh/clst	9.54	15.40	44.74	30.32	24.94	75.06	61.90	33.22	0065-0B
2290.00	cut	Sh/Clst: gy blk to drk gy	11.98	26.86	28.51	32.64	38.84	61.16	44.62	63.51	0035-1L
2290.00	swc	Sh/clst	12.41	18.62	53.45	15.52	31.03	68.97	66.67	45.00	0066-0B
2300.00	cut	Sh/Clst: gy blk to drk gy	15.38	25.15	21.89	37.57	40.53	59.47	61.18	68.16	0036-1L
2310.00	cut	Sh/Clst: gy blk to drk gy	12.16	23.99	33.11	30.74	36.15	63.85	50.70	56.61	0037-1L
2320.00	cut	Sh/Clst: gy blk to drk gy	16.34	28.76	27.45	27.45	45.10	54.90	56.82	82.14	0038-1L
2323.00	swc	Sh/clst	15.46	23.71	23.71	37.11	39.18	60.82	65.22	64.41	0067-0B
2340.00	cut	Sh/Clst: m gy to drk gy to lt gy	15.65	25.22	24.35	34.78	40.87	59.13	62.07	69.12	0039-1L
2360.00	cut	Sh/Clst: m gy to drk gy to lt gy	22.45	24.49	28.57	24.49	46.94	53.06	91.67	88.46	0041-1L
2365.00	swc	Sh/clst	46.15	23.08	25.64	5.13	69.23	30.77	200.00	225.00	0068-0B
2390.00	cut	Sh/Clst: m gy to drk gy to lt gy	20.00	23.33	23.33	33.33	43.33	56.67	85.71	76.47	0043-1L

Table 5 : Saturated Hydrocarbon Ratios for well NOCS 25/6-2

Depth unit of measure: m

Depth	Typ	Lithology	Pristane	Pristane	Pristane + Phytane	Phytane	CPI	Sample
			nC17	Phytane	nC17 + nC18	nC18		
1985.00	swc	Sh/clst	1.36	1.56	1.06	0.79	0.86	0063-0B
2048.00	swc	Sh/clst	1.48	0.85	1.21	1.05	1.47	0064-0B
2280.00	cut	Sh/Clst: drk gy to m gy	1.84	1.59	1.56	1.25	1.21	0034-1L
2284.00	swc	Sh/clst	1.77	1.97	1.37	0.94	0.81	0065-0B
2290.00	cut	Sh/Clst: gy blk to drk gy	1.65	2.16	1.42	1.09	1.36	0035-1L
2290.00	swc	Sh/clst	1.26	1.69	1.08	0.87	0.86	0066-0B
2300.00	cut	Sh/Clst: gy blk to drk gy	1.42	1.73	1.24	1.01	1.20	0036-1L
2310.00	cut	Sh/Clst: gy blk to drk gy	1.81	1.61	1.49	1.17	1.09	0037-1L
2320.00	cut	Sh/Clst: gy blk to drk gy	2.30	1.67	1.77	1.28	1.27	0038-1L
2323.00	swc	Sh/clst	1.12	2.84	0.76	0.39	1.70	0067-0B
2340.00	cut	Sh/Clst: m gy to drk gy to lt gy	1.67	1.92	1.30	0.91	1.28	0039-1L
2360.00	cut	Sh/Clst: m gy to drk gy to lt gy	1.48	2.62	1.06	0.60	1.83	0041-1L
2365.00	swc	Sh/clst	0.89	2.61	0.57	0.29	1.76	0068-0B
2390.00	cut	Sh/Clst: m gy to drk gy to lt gy	1.46	2.28	1.12	0.73	1.71	0043-1L

Table 6 : Aromatic Hydrocarbon Ratios for well NOCS 25/6-2

Depth unit of measure: m

Depth	Typ	Lithology	MNR	DMNR	BPhR	2/1MP	MPI1	MPI2	Rc	DBT/P	4/1MDBT	(3+2) /1MDBT	Sample
1985.00	swc	Sh/clst	1.09	1.25	-	1.43	0.94	1.06	0.96	-	-	-	0063-0B
2048.00	swc	Sh/clst	1.38	1.88	-	1.38	0.88	1.04	0.93	-	-	-	0064-0B
2280.00	cut	Sh/Clst: drk gy to m gy	0.74	1.14	-	-	-	-	-	0.30	0.18	0.13	0034-1L
2284.00	swc	Sh/clst	1.01	1.40	-	1.26	1.41	1.00	1.25	0.72	0.19	0.12	0065-0B
2290.00	cut	Sh/Clst: gy blk to drk gy	0.90	1.20	-	-	-	-	-	0.62	0.17	0.12	0035-1L
2290.00	swc	Sh/clst	0.96	1.16	-	1.20	1.19	0.90	1.11	0.58	0.18	0.11	0066-0B
2300.00	cut	Sh/Clst: gy blk to drk gy	0.84	1.08	-	1.18	1.06	0.83	1.04	0.57	0.18	0.12	0036-1L
2310.00	cut	Sh/Clst: gy blk to drk gy	0.94	1.14	-	1.10	0.89	0.76	0.93	0.46	0.21	0.15	0037-1L
2320.00	cut	Sh/Clst: gy blk to drk gy	0.77	0.87	-	1.11	0.75	0.71	0.85	0.52	0.22	0.16	0038-1L
2323.00	swc	Sh/clst	1.02	1.41	0.19	1.15	0.57	0.67	0.74	-	-	-	0067-0B
2340.00	cut	Sh/Clst: m gy to drk gy to lt gy	0.73	1.06	-	1.12	0.74	0.72	0.84	0.32	0.24	0.15	0039-1L
2360.00	cut	Sh/Clst: m gy to drk gy to lt gy	-	0.65	-	0.88	0.53	0.58	0.72	-	-	-	0041-1L
2365.00	swc	Sh/clst	-	-	-	0.92	0.57	0.65	0.74	-	-	-	0068-0B
2390.00	cut	Sh/Clst: m gy to drk gy to lt gy	0.49	0.92	-	1.05	0.59	0.67	0.75	0.23	-	-	0043-1L



Table 7 : Thermal Maturity Data for well NOCS 25/6-2

Depth unit of measure: m

Depth	Typ Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation	Spore Fluorescence Colour	SCI	T <sub>max</sub> (°C)	Sample
1051.00	vit bulk	0.36	7	0.04	1+3	-	-	0044-0B
1134.00	vit bulk	0.35	20	0.05	4	-	-	0045-0B
1286.00	vit bulk	0.35	11	0.04	3-4	-	-	0046-0B
1305.00	vit bulk	0.36	20	0.05	3-4	-	-	0047-0B
1419.00	vit bulk	0.36	20	0.05	3+4	-	-	0048-0B
1517.00	vit bulk	0.44	20	0.04	3	-	-	0049-0B
1635.00	vit bulk	0.43	8	0.04	4	-	-	0050-0B
1723.00	vit bulk	0.48	20	0.05	0	-	-	0051-0B
1863.00	vit bulk	0.46	3	0.04	0	-	-	0052-0B
1934.00	vit bulk	0.44	20	0.04	3-6	-	-	0053-0B
2011.00	vit bulk	0.38	7	0.05	3+4	-	-	0054-0B
2105.00	vit bulk	0.54	9	0.07	5	-	-	0055-0B
2203.00	vit bulk	NDP	-	-	0	-	-	0056-0B
2278.00	vit bulk	0.41	5	0.04	3+4	-	-	0057-0B

Table 7 : Thermal Maturity Data for well NOCS 25/6-2

Depth unit of measure: m

Depth	Typ	Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation	Spore Fluorescence Colour	SCI	T <sub>max</sub> (°C)	Sample
2282.00	vit	bulk	0.38	7	0.06	3+4	-	-	0058-0B
2290.00	vit	bulk	0.39	5	0.06	3-4	-	-	0059-0B
2320.00	vit	bulk	0.40	20	0.04	4	-	-	0060-0B
2346.00	vit	bulk	0.39	20	0.04	4	-	-	0061-0B
2392.00	vit	bulk	0.40	4	0.05	4-5	-	-	0062-0B

Table 8A: Tabulation of carbon isotope data for EOM/EOM - fractions for well NOCS 25/6-2

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Saturated	Aromatic	NSO	Asphaltenes	Kerogen	Sample
1985.00	swc	Sh/clst	-	-29.41	-28.25	-28.65	-27.58	-	0063-0
2048.00	swc	Sh/clst	-	-32.18	-31.34	-31.29	-30.54	-	0064-0
2280.00	cut	Sh/Clst	-30.77	-31.45	-31.00	-30.52	-30.01	-	0034-1
2284.00	swc	Sh/clst	-	-31.90	-31.47	-30.96	-29.78	-	0065-0
2290.00	cut	Sh/Clst	-31.23	-31.21	-31.57	-31.06	-30.39	-	0035-1
2290.00	swc	Sh/clst	-	-32.41	-31.85	-31.39	-30.03	-	0066-0
2300.00	cut	Sh/Clst	-31.35	-32.27	-31.63	-31.19	-30.60	-	0036-1
2310.00	cut	Sh/Clst	-29.52	-30.64	-29.91	-29.67	-28.29	-	0037-1
2320.00	cut	Sh/Clst	-27.77	-29.47	-27.96	-27.77	-26.66	-	0038-1
2323.00	swc	Sh/clst	-	-28.52	-26.34	-27.36	-25.85	-	0067-0
2340.00	cut	Sh/Clst	-29.06	-30.16	-29.27	-29.08	-27.95	-	0039-1
2360.00	cut	Sh/Clst	-	-29.73	-28.53	-28.04	-26.96	-	0041-1
2365.00	swc	Sh/clst	-	-29.01	-27.87	*-30.06	-26.91	-	0068-0
2390.00	cut	Sh/Clst	-	-30.44	-28.75	-28.50	-27.28	-	0043-1

\* Too little material for rerun.

Table 8B: Tabulation of cv values from carbon isotope data for well NOCS 25/6-2

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>
1985.00	swc	Sh/clst	-29.41	-28.25	0.04	0063-0
2048.00	swc	Sh/clst	-32.18	-31.34	0.19	0064-0
2280.00	cut	Sh/Clst	-31.45	-31.00	-0.90	0034-1
2284.00	swc	Sh/clst	-31.90	-31.47	-0.81	0065-0
2290.00	cut	Sh/Clst	-31.21	-31.57	-2.77	0035-1
2290.00	swc	Sh/clst	-32.41	-31.85	-0.36	0066-0
2300.00	cut	Sh/Clst	-32.27	-31.63	-0.23	0036-1
2310.00	cut	Sh/Clst	-30.64	-29.91	-0.53	0037-1
2320.00	cut	Sh/Clst	-29.47	-27.96	0.84	0038-1
2323.00	swc	Sh/clst	-28.52	-26.34	2.03	0067-0
2340.00	cut	Sh/Clst	-30.16	-29.27	-0.32	0039-1
2360.00	cut	Sh/Clst	-29.73	-28.53	0.23	0041-1
2365.00	swc	Sh/clst	-29.01	-27.87	-0.13	0068-0
2390.00	cut	Sh/Clst	-30.44	-28.75	1.54	0043-1

Table 9A: Variation in Triterpane Distribution (peak height) SIR for Well NOCS 25/6-2

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	C+D		J1		Sample
				B+E+F									E/E+F	C+D+E+F	D+F/C+E	J1+J2%	
1985.00	bulk	2.56	0.72	0.17	0.94	0.49	0.08	3.35	3.56	0.77	0.10	0.86	0.50	0.20	36.65	0063-0	
2048.00	bulk	2.68	0.73	0.13	0.44	0.31	-	0.47	1.07	0.32	0.06	0.90	0.33	0.15	26.37	0064-0	
2284.00	bulk	3.79	0.79	0.19	0.52	0.34	0.08	0.07	0.13	0.06	0.08	0.76	0.37	0.36	42.63	0065-0	
2290.00	Sh/Clst	5.04	0.83	0.24	0.56	0.36	0.10	0.05	0.10	0.05	0.07	0.80	0.38	0.30	44.32	0035-1	
2290.00	bulk	5.32	0.84	0.22	0.55	0.35	0.10	0.05	0.10	0.05	0.05	0.81	0.39	0.30	44.19	0066-0	
2300.00	Sh/Clst	5.20	0.84	0.25	0.54	0.35	0.11	0.06	0.11	0.06	0.06	0.81	0.38	0.29	44.50	0036-1	
2310.00	Sh/Clst	9.78	0.91	0.24	0.67	0.40	0.10	1.89	2.83	0.65	0.04	0.77	0.41	0.32	44.67	0037-1	
2323.00	bulk	6.83	0.87	0.23	0.63	0.39	0.07	0.05	0.08	0.05	0.14	0.73	0.41	0.42	35.52	0067-0	
2365.00	bulk	12.64	0.93	0.24	0.74	0.42	0.03	0.02	0.02	0.02	0.12	0.69	0.42	0.45	46.73	0068-0	
2390.00	Sh/Clst	23.66	0.96	0.25	0.58	0.37	0.03	0.31	0.53	0.24	0.04	0.79	0.39	0.30	39.39	0043-1	

Table 9B: Variation in Sterane Distribution (peak height) SIR for Well NOCS 25/6-2

Depth unit of measure: m

Depth	Lithology	Ratio1	Ratio2	Ratio3	Ratio4	Ratio5	Ratio6	Ratio7	Ratio8	Ratio9	Ratio10	Sample
1985.00	bulk	0.12	12.78	54.45	0.55	0.82	0.16	0.13	0.37	0.15	0.69	0063-0
2048.00	bulk	0.04	4.07	37.47	0.38	0.88	0.05	0.04	0.23	0.04	0.31	0064-0
2284.00	bulk	0.39	10.85	43.70	1.26	0.78	0.17	0.14	0.28	0.12	0.44	0065-0
2290.00	Sh/Clst	0.48	13.64	49.51	1.54	0.78	0.28	0.21	0.33	0.16	0.57	0035-1
2290.00	bulk	0.48	13.08	50.74	1.46	0.80	0.24	0.18	0.34	0.15	0.59	0066-0
2300.00	Sh/Clst	0.46	12.77	46.69	1.54	0.77	0.26	0.19	0.30	0.15	0.50	0036-1
2310.00	Sh/Clst	0.49	11.62	60.68	1.42	0.87	0.19	0.14	0.44	0.13	0.87	0037-1
2323.00	bulk	0.62	16.55	59.60	1.20	0.82	0.46	0.38	0.42	0.20	0.88	0067-0
2365.00	bulk	0.54	14.07	54.35	0.86	0.81	0.41	0.35	0.37	0.16	0.69	0068-0
2390.00	Sh/Clst	0.50	16.85	57.52	1.30	0.80	0.37	0.31	0.40	0.20	0.81	0043-1

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:  $r + s / t$

Depth unit of measure: m

Depth	Lithology	Ratio1	Ratio2	Ratio3	Ratio4	Ratio5	Sample
1985.00	bulk	0.65	0.48	0.35	0.40	0.53	0063-0
2048.00	bulk	0.71	0.59	0.42	0.48	0.58	0064-0
2284.00	bulk	0.44	0.30	0.13	0.18	0.19	0065-0
2290.00	Sh/Clst	0.45	0.33	0.14	0.19	0.20	0035-1
2290.00	bulk	0.34	0.25	0.10	0.13	0.15	0066-0
2300.00	Sh/Clst	0.40	0.27	0.12	0.17	0.18	0036-1
2310.00	Sh/Clst	0.48	0.31	0.15	0.21	0.23	0037-1
2323.00	bulk	0.77	0.56	0.46	0.54	0.65	0067-0
2365.00	bulk	0.60	0.40	0.30	0.35	0.50	0068-0
2390.00	Sh/Clst	0.50	0.30	0.17	0.23	0.27	0043-1

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 9D: Variation in Monoaromatic Sterane Distribution for Well NOCS 25/6-2

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>
1985.00	bulk	0.23	0.12	0.10	0.08	0063-0
2048.00	bulk	0.17	0.08	0.06	0.04	0064-0
2284.00	bulk	0.19	0.10	0.10	0.09	0065-0
2290.00	Sh/Clst	0.19	0.11	0.11	0.09	0035-1
2290.00	bulk	0.15	0.10	0.08	0.07	0066-0
2300.00	Sh/Clst	0.17	0.10	0.09	0.08	0036-1
2310.00	Sh/Clst	0.21	0.11	0.12	0.10	0037-1
2323.00	bulk	0.43	0.25	0.26	0.20	0067-0
2365.00	bulk	0.48	0.32	0.29	0.23	0068-0
2390.00	Sh/Clst	0.23	0.12	0.14	0.11	0043-1

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

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



Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Ratio1</u>	<u>Ratio2</u>	<u>Sample</u>
1985.00	bulk	0.92	0.17	0063-0
2048.00	bulk	0.96	0.05	0064-0
2284.00	bulk	0.85	0.28	0065-0
2290.00	Sh/Clst	0.85	0.33	0035-1
2290.00	bulk	0.83	0.40	0066-0
2300.00	Sh/Clst	0.86	0.33	0036-1
2310.00	Sh/Clst	0.88	0.32	0037-1
2323.00	bulk	0.89	0.35	0067-0
2365.00	bulk	0.74	0.63	0068-0
2390.00	Sh/Clst	0.87	0.34	0043-1

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

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

Schlumberger

GECO-PRAKLA

GEOLAB  NOR

Table 9F: Raw GCMS triterpane data (peak height) SIR for Well NOCS 25/6-2

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											
1985.00	bulk	82454.4	42241.0	51458.3	40268.3	6720.6	40210.3	102965.9	1484376.0	417542.6	0063-0								
		36820.0	104550.9	443105.0	69580.3	53888.9	89571.1	78320.0	26252.5										
		45382.8	24189.2	55864.1	11341.0	18002.6	20073.6	50551.5											
2048.00	bulk	214371.3	146760.0	133658.8	90661.9	59840.0	139913.9	374583.3	1101662.6	1032820.1	0064-0								
		0.0	230394.8	2343760.0	265841.0	212315.0	346817.3	265497.7	71871.7										
		200704.0	106448.9	254545.1	44033.7	97598.4	96695.4	263058.0											
2284.00	bulk	697017.7	316534.6	203241.2	211712.3	81843.0	340926.0	1292284.0	292832.0	2174140.8	0065-0								
		338705.4	1034381.9	4220326.5	1298816.0	2029191.5	2248471.5	851120.0	990168.0										
		1332501.5	1124978.0	1507639.5	1103330.5	1412322.9	1460815.1	2167670.8											
2290.00	Sh/Clst	187227.1	97278.1	66327.6	76891.3	34427.1	110023.9	554235.8	78260.2	792950.3	0035-1								
		135693.3	312574.6	1425901.0	361555.4	698786.3	700642.3	270536.0	333822.4										
		419379.1	375384.0	474624.0	321460.7	416734.6	518778.2	720155.4											
2290.00	bulk	140109.3	73220.9	49956.2	72742.2	23213.4	90900.9	483661.1	77936.0	777350.9	0066-0								
		147117.9	329643.6	1422589.4	338782.5	699656.8	688992.0	280335.9	327498.2										
		413611.0	380526.8	466429.5	333520.0	420773.1	538174.3	727564.9											

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						
2300.00	Sh/Clst	227670.8	108167.9	74765.5	112291.1	39313.8	148401.5	771834.8	112623.1	1020136.6	0036-1									
		200416.0	402193.8	1872917.1	430250.6	1058534.9	1083926.9	406200.4	466964.6											
		582468.1	526847.8	683134.0	467999.7	600377.6	902186.3	1238966.4												
2310.00	Sh/Clst	236460.4	111172.0	81783.4	129060.3	42372.3	107077.3	1046931.8	4930180.0	1739396.0	0037-1									
		255825.6	606458.2	2611738.5	784405.5	1423380.9	1357985.5	626544.8	604629.3											
		749040.0	592688.1	805746.3	514649.7	683649.7	998650.8	1432898.0												
2323.00	bulk	173985.6	78852.6	24270.4	55165.7	10440.1	33059.0	225884.0	26252.1	344912.9	0067-0									
		39165.2	176301.5	550435.9	198805.8	296180.0	340244.0	176046.0	72312.2											
		131245.8	31499.7	55240.0	27805.0	52201.8	16541.5	29951.8												
2365.00	bulk	122115.7	61695.1	15307.5	40498.9	6540.0	18412.0	232704.2	8996.8	367939.7	0068-0									
		14123.5	167104.4	500523.0	228012.4	397398.2	314141.7	199741.8	79599.0											
		90726.4	24210.3	31508.5	12565.0	16619.5	9161.3	6913.9												
2390.00	Sh/Clst	1708.5	835.9	471.8	904.4	0.0	341.4	8077.3	5964.2	11261.4	0043-1									
		599.7	4039.8	19260.5	5110.5	9891.8	9187.5	4335.6	2361.4											
		3633.0	1523.4	2082.3	1057.1	2012.8	2141.0	2880.3												

Table 9G: Raw GCMS sterane data (peak height) SIR for Well NOCS 25/6-2

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					
1985.00	bulk	105715.5	67878.6	77975.0	67386.0	56720.0	0.0	47587.8	39637.1	200148.9	0063-0
		68081.1	45186.6	554977.3	92021.3	59323.3	37187.8	146955.3	39892.6		
		496775.7	73753.8	265384.7	79441.3	503213.3					
2048.00	bulk	156236.5	69752.4	136516.0	140939.2	69984.6	0.0	62318.8	46190.8	1117257.9	0064-0
		145097.9	59689.9	3446174.5	108200.0	123644.0	115196.0	539539.8	67475.8		
		2223128.0	131424.0	834194.5	134354.1	3100896.0					
2284.00	bulk	941261.9	535808.0	2755848.0	2303608.0	1169931.0	804049.1	1306699.4	887180.5	1932911.3	0065-0
		2007447.8	760690.8	4320034.5	2130323.0	582600.6	723656.6	850872.8	868792.8		
		3019225.0	545291.0	1456397.3	495117.2	4482507.0					
2290.00	Sh/Clst	485397.1	247657.1	1345280.0	1076808.0	538996.5	391292.9	511451.1	349301.4	693167.5	0035-1
		854646.8	345086.7	1465042.8	828258.4	224256.0	298240.0	269056.0	325376.0		
		748938.7	174194.8	431789.0	194326.5	1102594.6					
2290.00	bulk	394007.8	214167.3	1275699.0	1046827.1	533910.0	381326.6	517076.4	356871.9	645969.3	0066-0
		849378.9	330619.1	1366585.8	848610.4	236170.6	331146.6	277258.6	344970.6		
		713136.0	162176.0	440285.5	198330.1	1077892.0					

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					
2300.00	Sh/Clst	549164.9	294820.6	1617354.5	1326392.4	633752.5	460130.1	648396.8	429787.1	883443.1	0036-1
		1019071.9	399244.8	1877899.3	1014531.3	238793.9	342584.8	346373.5	402416.2		
		1048480.0	218528.0	534601.9	214729.9	1492305.9					
2310.00	Sh/Clst	613580.6	313239.3	2001207.0	1622989.4	826682.0	603758.6	836212.4	547039.0	1060283.1	0037-1
		1380732.0	584060.1	2095213.8	1349156.5	382603.9	395147.9	449675.9	506595.9		
		1213600.1	265195.1	1171925.4	589162.7	2016810.3					
2323.00	bulk	161932.0	58636.0	175828.7	121094.1	67178.0	49586.8	55645.2	41063.3	58010.1	0067-0
		159802.1	50106.1	107097.9	113184.8	40992.7	18272.7	29568.7	34224.7		
		44569.2	24718.9	71748.1	38419.9	124609.2					
2365.00	bulk	46194.7	20294.0	29092.5	17967.4	9795.9	6852.0	13526.1	6143.6	14820.7	0068-0
		38421.8	13085.8	25098.6	20946.6	6140.0	3864.8	8960.8	9972.8		
		11747.8	8485.7	23311.1	12581.3	51817.2					
2390.00	Sh/Clst	3905.3	1737.8	5689.4	3403.8	2442.3	1753.5	1606.8	1533.8	2824.0	0043-1
		4137.1	1014.4	5663.1	3585.3	1297.9	864.2	1189.9	1302.8		
		2512.0	980.8	2616.1	1324.1	4838.3					

Table 9H: Raw GCMS triaromatic sterane data (peak height) for Well NOCS 25/6-2

Depth unit of measure: m

Depth	Lithology	a1	b1	c1	d1	e1	f1	g1	Sample
1985.00	bulk	149105.5	75081.6	52578.7	134035.3	76588.9	67744.3	80871.3	0063-0
2048.00	bulk	148546.6	88784.5	58350.5	105998.5	55502.2	44054.2	61555.5	0064-0
2284.00	bulk	618833.9	333873.8	903967.7	2580529.3	707826.8	1310000.0	789027.4	0065-0
2290.00	Sh/Clst	533358.5	328030.0	832023.8	2196650.8	568219.7	1050346.3	653162.0	0035-1
2290.00	bulk	1273230.0	819679.9	3019755.0	7504249.5	2041011.5	3751691.8	2441173.8	0066-0
2300.00	Sh/Clst	521672.5	284984.8	949158.3	2422292.0	594709.1	1148537.4	784917.1	0036-1
2310.00	Sh/Clst	201704.9	100188.8	280552.0	679153.7	207704.5	320979.2	218403.6	0037-1
2323.00	bulk	348735.3	133214.4	70157.0	186213.6	109299.5	86145.3	102693.6	0067-0
2365.00	bulk	99632.0	44599.5	44410.5	98822.8	78464.0	43270.3	66637.2	0068-0
2390.00	Sh/Clst	70328.8	31231.7	73536.7	186721.0	70281.2	87913.2	71630.9	0043-1

Table 9I: Raw GCMS monoaromatic sterane data (peak height) for Well NOCS 25/6-2

Depth unit of measure: m

Depth	Lithology	a1	b1	c1	d1	e1	f1	g1	h1	i1	Sample
1985.00	bulk	284873.0	126157.9	219250.8	271893.1	960711.5	217919.0	1566345.1	1075936.0	400242.8	0063-0
2048.00	bulk	230519.5	90235.5	689080.8	650169.2	1096780.0	43986.0	2289305.0	2055791.5	1188004.8	0064-0
2284.00	bulk	2259609.0	1069080.5	2783179.3	3719952.0	9897018.0	726552.0	9878784.0	6701508.0	2026996.4	0065-0
2290.00	Sh/Clst	2115462.5	1095162.1	2902037.0	3620678.5	8843596.0	925653.0	8234218.5	5054958.5	1354757.3	0035-1
2290.00	bulk	4390780.0	2626085.0	8291782.0	10184817.0	24688066.0	2653131.3	24560812.0	14833016.0	3683824.3	0066-0
2300.00	Sh/Clst	1960742.0	1039049.0	3367218.3	4048796.0	9705902.0	1037802.0	9514731.0	5756527.0	1629532.4	0036-1
2310.00	Sh/Clst	914507.3	425562.5	1583136.0	1583348.0	3476304.0	440976.5	3183647.8	1725602.0	456991.7	0037-1
2323.00	bulk	765648.9	337935.9	646402.6	542208.0	1004980.6	205205.5	1144658.1	597742.8	194574.6	0067-0
2365.00	bulk	187112.6	95083.1	114035.0	86948.2	203190.7	66246.0	263909.1	158112.0	38868.6	0068-0
2390.00	Sh/Clst	278261.4	127551.3	393551.0	384101.7	911392.3	117500.0	848935.6	476369.8	141351.1	0043-1