

**WELL 6306/5-1T2 FINAL WELL REPORT**

Page 45 of 130  
 Rev. 0  
 Valid from 01.01.98

---

**5.4 Modular Formation Dynamics Tester (MDT) Analysis**

Formation pressure data was collected from the Skalmen Formation. (Table 5.4.1).

Tool type	Schlumberger MDT
Gauge	Quartz gauge BQP1
Resolution	0.010 PSI
RTE	25m

One MDT run was performed, and 10 pre-test measurements were taken, resulting in only one good test (4011.5 psi) at 1755.8 mMD BRT.

Two segregated samples were taken at 1755.8 mMD BRT (1728.1 mTVDSS), 1x1 gal and 1x2  $\frac{3}{4}$  gal chambers were filled. The 1x1 gal chamber was throttled for 30 minutes to control drawdown at average pressure 2,000 psi, with no gas seen from fluid analyser. The 1x2  $\frac{3}{4}$  gal chamber was open with full drawdown (200 psi), some gas noticed to be breaking out until pressure builds up above 1,000 psi, thereafter no indications of gas.

The 1x2  $\frac{3}{4}$  gal sample was drained at surface containing 3 litres formation water/mud filtrate, 0.3-scf gas and opening pressure 200 psi. The 1x1 gal fluid sample was analysed by GeoQuest (see section 5.5).

Equivalent formation pressure =  $4011.5 / (1728 * 0.0981 * 14.5) = 1.632$  sg

Water formation density 1.02 g/cc and Fluid gradient 1.450 psi

Hydrostatic pressure =  $1.45 * 1728 = 2506$  psi

Overpressure above hydrostatic =  $4011.5 - 2506.0 = 1505.5$  psi

**WELL 6306/5-1T2 FINAL WELL REPORT**

Page 46 of 130  
 Rev. 0  
 Valid from 01.01.98

Wellsite MDT Summary									
BRT (m)			-25			MUD WT (s.g.)		1.72	
WATER DEPTH (m)			227.5			MUD TYPE		WBM	
AHN WITNESS			Wenche Skaget			HOLE SIZE		8 1/2"	
TIME	DEPTH		HP GAUGE PRESSURE		TEMP	EMW	MOBILITY	REMARKS	
HH:MM	MDRKB M	TVDSS M	FORMATION PSIA	MUD HYDRO. PSIA	DEG F	PPG	mD/CP		
22:50	1750,5	1722,81	-	4210	57	N/A		LOST SEAL	
23:00	1750,5	1722,81	-	4210	58	N/A		LOST SEAL	
23:10	1752,5	1724,79	-	4212	58.5	N/A		LOST SEAL	
23:20	1752,5	1724,79	-	-	59.1	N/A		LOST SEAL	
23:25	1755,8	1728,07	4011,5-	4217	59.5	N/A		GOOD TEST	
1:55	1757,5	1729,76	-	4211	64	N/A		PLUGGING?	
2:10	1757,5	1729,76	-	4214	64	N/A		PLUGGING?	
2:20	1758,3	1730,55	-	4219	64	N/A		TIGHT	
2:30	1754,0	1726,28	4008.0	4207	63.5	N/A		PLUGGING?	
2:55	1750,5	1722,81	-	4214	62	N/A		PLUGGING?	

Table 5.4.1 MDT Sample Data.

**WELL 6306/5-1T2 FINAL WELL REPORT**

Page 47 of 130  
 Rev. 0  
 Valid from 01.01.98

**5.5 Fluid Analysis Results**

**FORMATION WATER ANALYSIS**

**Date sampled : 09.07.97                      Sampled from : MDT BB67**

Date received : 10.07.97

Date analyzed : 10.07.97                      Analysis no.: 1535                      Analyst : KØ

Density : 1.021 g/cm<sup>3</sup> @ 15 °C                      Total suspended solids : 118 mg/l

Resistivity : 0.2364 ohm-m @ 20 °C                      Total dissolved solids : 31847 mg/l

ph : 7.3 @ 20 °C

	mg/l	meq/l		mg/l	meq/l
Sodium	5268	229	Chloride	161000	454
Potassium	9164	234	Bicarbonate	677	11
Calcium	445	22	Sulfate	112	2
Magnesium	75	6	Carbonate	-	
Strontium	6		Hydroxide	-	
Barium	n.d.				
Iron	0.7				

**WELL 6306/5-1T2 FINAL WELL REPORT**

Page 48 of 130  
 Rev. 0  
 Valid from 01.01.98

**GAS FROM SINGLE STAGE FLASH  
 MOLECULAR COMPOSITION AND PNA DISTRIBUTION  
 Bottle no. 20407**

Component	Wt%	mol%	molwt.	LNG 1)
Nitrogen	2.34	1.42		
Carbon dioxide	6.81	2.64		
Methane	89.69	95.35		
Ethane	0.88	0.50		
Propane	0.19	0.07		2.7
iso-Butane	0.02	0.01		0.3
n-Butane	0.02	0.01		0.3
iso-Pentane	0.01	0.00		0.1
n-Pentane	0.01	0.00		0.1
Hexanes	0.02	0.00	84.5	0.2
P	0.02	0.00		
N	0.00	0.00		
A	0.00	0.00		
Heptanes	0.01	0.00	88.8	0.1
P	0.00	0.00		
N	0.01	0.00		
A	0.00	0.00		
Octanes	0.00	0.00		
Nonanes	0.00	0.00		
Decanes plus	0.00	0.00		
Sum	100.00	100.00		3.8
Average molecular weight :			17.05	
Gas gravity :			0.589	

1) Liquified natural gas as m<sup>3</sup> liquid/10<sup>6</sup>Sm<sup>3</sup> gas

# Mud Properties, daily record

# Well: 6306/5-1

Operator: Amerada Hess Norge

Anchor / MI Drilling Fluids

FSR no.	Date	Depth	M.W.	F.Vis	VG-meter readings @ 50 C						A.V.	P.V	Y.P.	Gel 10s	Gel 10m	pH	Pf/Mf ml	F.L	Ca	MBT	Cl- Water	KCl	Glycol	Solids	Sand	HGS	LGS	HTHP
		m	sg	s/qt.	rpm	rpm	rpm	rpm	rpm	rpm	cP	mP	Pa	Pa	Pa		ml	ml	mg/l	kg/m3	*1000	kg/m3	%	vol%	vol%	kg/m3	kg/m3	mL

**36" Section: Bentonite/Seawater Mud.**

1	6.8	307	1.03	00	-	-	-	-	-	-	-	-	-	-	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-
2	6.9	330	1.20	00	-	-	-	-	-	-	-	-	-	-	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-

**17 1/2" Section: Bentonite/Seawater Mud.**

3	6.10	460	1.20	63	70	55	49	42	27	26	35.0	15	20	15	40	9.4	0/0.4	14	800	-	25	-	-	9.0	-	156	85	-
4	6.11	460	1.20	63	70	55	49	42	27	26	35.0	15	20	15	40	9.4	0/0.4	14	800	-	25	-	-	9.0	-	156	85	-
5	6.12	512	1.12	41	28	19	15	10	4	3	14.0	9	5	2	3	9.5	0/0.4	6	720	-	90	-	4	8.5	-	9	24	-
6	6.13	747	1.17	46	39	26	21	14	6	4	19.5	13	6.5	2	11	9.2	0.2/0.4	2.5	720	14	90	175	4	11.5	1.4	13	106	-
7	6.14	1001	1.21	58	62	45	38	29	12	10	31.0	17	14	6	11	8.5	0.2/0.4	2.5	120	14	80	175	4	14.0	1.4	7	202	-

**12 1/4" Section Anco 2000 Mud System.**

8	6.15	1234	1.21	89	75	55	47	36	15	12	37.5	20	17.5	7.5	20	8.3	0.1/0.9	2.7	360	35	76	140	4	14.0	2.0	5	212	-
9	6.16	1300	1.21	78	70	51	44	34	14	11	35.0	19	16	6	16	8.8	0/1.3	3.2	360	36	76	140	5	13.5	1.5	31	184	-
10	6.17	1300	1.22	75	68	49	42	32	13	10	34.0	19	15	5	16	8.8	0/0.5	3.0	360	36	72	140	5	14.0	1.5	34	204	-

**8 1/2" Section Anco 2000 Mud System.**

11	6.18	1300	1.21	63	52	37	31	23	8	6	26.0	15	11	4	12	8.9	0/0.6	3.1	350	35	70	160	4	13.0	1.0	23	188	-
12	6.19	1338	1.20	56	49	36	30	22	8	6	24.5	13	12	4	21	9	0.2/0.8	3.2	400	35	69	150	4	12.0	0.5	60	138	-
13	6.20	1581	1.20	53	57	41	34	26	8	6	28.5	16	13	4	10	8	0/0.9	3.0	580	36	68	135	4	11.5	0.1	81	113	10.0
14	6.21	1751	1.59	66	89	60	50	35	10	9	44.5	29	16	4	8.5	8.7	0/1.2	3.3	620	43	84	140	4	24.5	0.2	562	144	13.0
15	6.22	1751	1.59	102	107	72	54	37	10	8	53.5	35	19	4	8	8.5	0/1.1	2.0	640	43	75	140	4	22.0	0.2	664	29	10.0
16	6.23	1751	1.59	90	96	63	49	32	7	5	48.0	33	15	3	4.5	8.6	0/1.1	1.4	400	35	91	140	4	23.0	0.2	629	47	10.0
17	6.24	1751	1.59	95	99	60	52	35	8	6	49.5	39	10.5	3	7	8.5	0/1.1	2.0	900	35	83	140	4	23.0	2.0	599	81	12.0
18	6.25	1751	1.62	79	92	58	42	33	9	6	46.0	34	12.0	4	7	8.7	0.1/1.2	2.8	560	32	85	130	4	24.0	1.0	663	66	12.0
19	6.26	1300	1.62	98	108	69	54	46	10	8	54.0	39	15.0	4	9	11	0.2/1.4	2.4	480	36	92	140	4	24.0	1.0	666	50	12.0

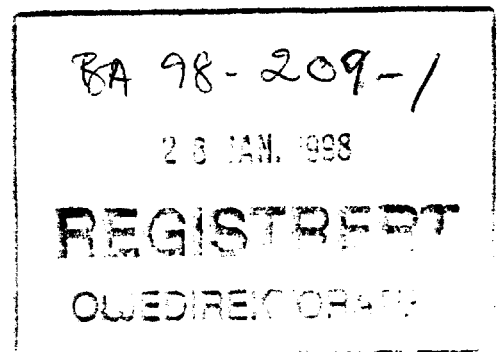
Max	1.62	102	108	72	54	46	14	11	54	39	18.5	6	21	0.0	3.3	900	43	92	160	73/27	24.5	2	666	204			
Av.	1.42	78	81	54	44	32	10	7	40.3	26	13.9	4.1	11		2.7	514	37	79	141	70/30	18.59	0.8	365	113			
Min.	1.20	53	49	36	30	22	7	5	24.5	13	10.5	3	4.5	0.0	1.4	350	32	68	130	66/34	11.5	0.1	23	29			



**Geochemical Report for**  
**Well NOCS 6306/5-1 and 6306/5-1T2**

Authors:

P.B. HALL



Geolab Nor AS  
Hornebergveien 5  
P.O. Box 5740 Fossegrenda  
7002 Trondheim  
Norway

Date:

December 1997

**Well NOCS 6306/5-1T2**

**Appendix 1: TABLES**

1. Headspace and Occluded Gas
2. Headspace Gas (C<sub>1</sub> - C<sub>4</sub>) δ<sup>13</sup>C-values
3. Lithology Description
- 4a-b. Rock-Eval Table
5. Pyrolysis Gas Chromatography Composition
- 6a-e. Solvent Extraction Data
7. Saturated Hydrocarbon Ratios
- 8a-b. Aromatic Hydrocarbon Ratios
9. Thermal Maturity Data
10. Visual Kerogen Data
- 11a-b. Carbon Isotope Data for C<sub>15</sub>+ Fractions
- 12a-f. Gas Chromatography - Mass Spectrometry Data - Saturated Hydrocarbons
- 13a-f. Gas Chromatography - Mass Spectrometry Data - Aromatic Hydrocarbons

**Appendix 2: VITRINITE REFLECTANCE HISTOGRAMS**

**Appendix 3: GHM - THERMAL EXTRACTION GAS CHROMATOGRAMS AND  
GHM - PYROLYSIS GAS CHROMATOGRAPHY PYROGRAMS**

**Appendix 4: GAS CHROMATOGRAMS**

- I. Saturated Fraction Chromatograms (FID)
- II. Aromatic Fraction Chromatograms (FID and FPD)

**Appendix 5: GAS CHROMATOGRAPHY - MASS SPECTROMETRY,  
FRAGMENTOGRAMS**

- I. Saturated Fraction Fragmentograms
- II. Aromatic Fraction Fragmentograms



Table 1a: C1 to C7 hydrocarbons in HEADSPACE gas  
(µl gas/kg rock)

Project: NOCS 6306/5-1&1T2

Well: NOCS 6306/5-1T2

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	29705	1418	1139	340	384	470	32986	3281	9.9	0.89
1930.00	25078	1194	947	272	319	435	27809	2731	9.8	0.85
1940.00	11981	502	380	113	123	147	13099	1119	8.5	0.92
1950.00	56094	2120	1370	355	390	610	60328	4234	7.0	0.91
1960.00	59388	1999	1393	360	397	746	63537	4150	6.5	0.91
1970.00	15935	758	569	155	163	217	17580	1644	9.4	0.95
1980.00	8726	381	314	84	91	128	9597	871	9.1	0.92
1981.00	20018	924	744	198	205	265	22090	2071	9.4	0.97
1990.00	16814	802	600	169	161	315	18547	1733	9.3	1.05
2000.00	6311	317	247	67	64	76	7005	695	9.9	1.05
2010.00	12060	468	329	89	81	160	13026	966	7.4	1.10
2022.00	14562	550	354	92	82	156	15640	1078	6.9	1.12
2031.00	39654	1440	842	207	161	188	42305	2651	6.3	1.29
2049.00	7015	295	178	41	33	49	7562	547	7.2	1.26

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

Project: NOCS 6306/5-1&amp;1T2

Well: NOCS 6306/5-1T2

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
1400.00	13463	55	16	2	3	17	13538	75	0.6	0.82
1430.00	8675	65	12	2	2	8	8755	80	0.9	1.27
1460.00	9545	104	10	2	1	7	9662	117	1.2	1.41
1490.00	33417	383	23	4	4	15	33830	414	1.2	1.23
1520.00	32108	555	34	8	4	35	32709	601	1.8	1.94
1550.00	23412	376	35	8	4	5	23836	424	1.8	2.07
1580.00	15937	190	41	9	10	12	16187	250	1.5	0.83
1610.00	11397	157	45	12	14	15	11625	228	2.0	0.87
1640.00	8914	148	62	21	25	37	9169	255	2.8	0.82
1670.00	11773	179	99	36	44	77	12132	359	3.0	0.83
1700.00	8467	219	169	59	75	179	8989	522	5.8	0.79
1710.00	13528	329	235	75	93	150	14260	732	5.1	0.81
1722.00	15354	336	251	84	107	267	16132	778	4.8	0.78
1731.00	5360	154	131	44	53	128	5742	382	6.7	0.83
1740.00	10074	347	313	108	121	265	10963	889	8.1	0.89
1749.00	14760	541	524	195	213	586	16233	1473	9.1	0.91
1788.00	5976	289	246	84	86	209	6681	705	10.5	0.98
1800.00	13852	637	531	163	169	372	15353	1500	9.8	0.96
1809.00	8738	399	315	98	103	280	9653	915	9.5	0.95
1818.00	11751	563	416	116	123	242	12970	1218	9.4	0.95
1830.00	4868	236	174	49	55	128	5383	515	9.6	0.89
1839.00	2631	166	152	46	56	166	3050	419	13.8	0.81
1860.00	10293	455	317	91	103	175	11258	965	8.6	0.89
1872.00	9535	494	355	104	120	234	10607	1072	10.1	0.86
1890.00	13981	969	868	284	328	544	16431	2450	14.9	0.87
1900.00	11662	483	322	94	106	150	12667	1005	7.9	0.89
1910.00	11501	538	435	138	159	255	12771	1270	9.9	0.87

Table 1b: C1 to C7 hydrocarbons in CUTTINGS gas  
(µl gas/kg rock)

Project: NOCS 6306/5-1&1T2

Well: NOCS 6306/5-1T2

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
1400.00	8					2	8	1	8.5	0.63
1430.00	12	1				3	13	2	11.9	0.66
1460.00	53	3	3			4	60	7	11.5	0.66
1490.00	23	2	2			3	27	4	14.9	0.81
1520.00	44	8	4	1	1	9	58	15	25.3	0.68
1550.00	51	8	3	1	1	4	65	14	20.9	0.99
1580.00	18	2	1		1	3	23	4	18.0	0.45
1610.00	37	3	2	1	2	6	45	7	16.6	0.50
1640.00	19	2	2	1	2	9	27	8	28.4	0.45
1670.00	20	3	3	2	4	21	30	10	34.5	0.42
1700.00	16	2	5	4	9	43	36	20	56.4	0.43
1710.00	29	4	14	10	20	85	78	48	62.1	0.48
1722.00	30	6	9	7	16	102	68	38	55.9	0.44
1731.00	26	6	14	10	21	134	77	51	65.6	0.48
1740.00	20	5	14	10	19	124	68	47	69.8	0.52
1749.00	63	15	40	33	60	424	211	148	70.1	0.55
1788.00	129	17	19	10	20	198	195	66	34.0	0.50
1800.00	91	11	20	13	23	196	159	68	42.8	0.56
1809.00	61	14	22	10	19	157	126	65	51.7	0.54
1818.00	74	14	36	21	36	193	180	107	59.2	0.58
1830.00	100	17	35	19	37	251	209	108	51.9	0.52
1839.00	95	14	21	12	25	139	166	71	42.9	0.47
1860.00	90	15	29	17	30	138	181	91	50.2	0.54
1872.00	112	18	22	10	23	105	185	73	39.3	0.46
1890.00	90	12	16	8	18	83	144	54	37.6	0.44
1900.00	42	8	17	9	17	54	94	51	54.8	0.54
1910.00	8	2	4	2	5	23	21	13	63.0	0.50

Table 1b: C1 to C7 hydrocarbons in CUTTINGS gas  
(µl gas/kg rock)

Project: NOCS 6306/5-1&1T2

Well: NOCS 6306/5-1T2

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	51	8	13	8	17	70	98	47	47.5	0.50
1930.00	75	13	17	9	18	56	131	57	43.0	0.51
1940.00	46	8	19	10	18	64	102	56	54.7	0.56
1950.00	59	11	17	10	18	69	114	55	48.5	0.54
1960.00	56	10	18	11	20	66	115	60	51.7	0.56
1970.00	47	8	12	7	13	52	86	40	45.9	0.54
1980.00	20	2	6	4	7	24	39	18	47.8	0.58
1981.00	21	4	8	5	9	31	47	26	54.8	0.61
1990.00	44	7	9	7	11	43	77	33	42.9	0.63
2000.00	22	3	5	2	4	34	36	14	39.3	0.55
2010.00	19	4	7	3	6	40	39	20	51.5	0.57
2022.00	53	10	10	4	7	32	84	32	37.6	0.58
2031.00	27	5	8	3	5	22	49	21	43.8	0.61
2049.00	16	3	6	3	4	18	31	15	49.1	0.67

Table 1c: C1 to C7 hydrocarbons in HEADSPACE and CUTTINGS gas  
(µl gas/kg rock)

Project: NOCS 6306/5-1&1T2

Well: NOCS 6306/5-1T2

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
1400.00	13470	55	16	2	3	19	13546	76	0.6	0.81
1430.00	8687	65	12	2	2	11	8769	82	0.9	1.20
1460.00	9598	107	13	2	2	11	9721	124	1.3	1.23
1490.00	33439	385	25	5	4	18	33857	418	1.2	1.20
1520.00	32151	563	38	9	5	44	32767	616	1.9	1.63
1550.00	23463	384	39	9	5	9	23901	438	1.8	1.84
1580.00	15955	192	43	9	11	15	16210	254	1.6	0.81
1610.00	11434	160	47	13	15	21	11670	235	2.0	0.82
1640.00	8933	150	64	22	27	46	9196	263	2.9	0.79
1670.00	11793	182	102	38	47	98	12162	369	3.0	0.80
1700.00	8483	221	174	63	84	221	9025	542	6.0	0.75
1710.00	13557	334	249	84	113	236	14337	780	5.4	0.75
1722.00	15383	342	261	90	123	368	16199	816	5.0	0.73
1731.00	5386	160	144	54	74	262	5819	432	7.4	0.73
1740.00	10094	351	327	118	140	390	11030	936	8.5	0.84
1749.00	14823	556	565	228	273	1010	16444	1621	9.9	0.83
1788.00	6105	306	266	94	106	407	6877	771	11.2	0.89
1800.00	13943	649	551	176	193	567	15511	1568	10.1	0.91
1809.00	8798	412	337	108	122	438	9779	980	10.0	0.89
1818.00	11825	577	452	137	158	435	13150	1325	10.1	0.86
1830.00	4968	253	210	68	92	379	5591	623	11.1	0.74
1839.00	2726	180	173	57	81	305	3217	491	15.3	0.71
1860.00	10383	470	346	108	133	313	11440	1056	9.2	0.81
1872.00	9647	511	376	114	143	339	10792	1145	10.6	0.80
1890.00	14072	981	884	293	346	628	16575	2504	15.1	0.84
1900.00	11704	490	339	103	124	204	12761	1057	8.3	0.84
1910.00	11509	540	439	141	164	278	12792	1283	10.0	0.86

Table 1c: C1 to C7 hydrocarbons in HEADSPACE and CUTTINGS gas  
(µl gas/kg rock)

Project: NOCS 6306/5-1&1T2

Well: NOCS 6306/5-1T2

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	29757	1426	1152	349	401	540	33084	3328	10.1	0.87
1930.00	25152	1206	964	281	336	492	27940	2788	10.0	0.84
1940.00	12027	510	399	123	141	211	13201	1174	8.9	0.87
1950.00	56152	2131	1387	364	407	679	60442	4289	7.1	0.89
1960.00	59444	2009	1411	372	417	812	63653	4209	6.6	0.89
1970.00	15982	765	580	162	176	270	17666	1684	9.5	0.92
1980.00	8746	383	320	88	98	152	9635	890	9.2	0.90
1981.00	20039	928	753	204	213	296	22137	2097	9.5	0.95
1990.00	16858	809	608	176	172	359	18624	1766	9.5	1.02
2000.00	6333	320	252	69	68	110	7041	709	10.1	1.02
2010.00	12079	472	336	92	86	200	13065	987	7.6	1.07
2022.00	14614	559	365	96	89	188	15724	1110	7.1	1.08
2031.00	39682	1445	850	211	166	210	42354	2672	6.3	1.27
2049.00	7031	298	183	44	37	67	7593	562	7.4	1.19

Table 2 : Isotope GC Analysis of Headspace Gas for well NOCS 6306/5-1T2

Depth unit of measure: m

Depth	Typ	Lithology	C1	C2	C3	iC4	nC4	CO2	D	Sample
1490.00	cut	bulk	-58.1	-43.5	-	-	-	-	-	0004-0B
1749.00	cut	bulk	-53.4	-34.7	-28.8	-28.4	-27.3	-	-	0016-0B
1788.00	cut	bulk	-52.5	-34.3	-28.7	-28.3	-27.6	-	-	0020-0B
1890.00	cut	bulk	-54.7	-35.5	-29.5	-29.8	-27.9	-	-	0028-0B
1960.00	cut	bulk	-51.5	-36.1	-30.3	-30.6	-28.8	-	-	0035-0B

Table 3 : Lithology description for well NOCS 6306/5-1T2

Depth unit of measure: m

Depth	Type			Trb	Sample
Int	Cvd	TOC%	%	Lithology description	
1339.00	swc				0045
		0.39	100	S/Sst : pl y brn, f	0045-1L
1400.00					0001
		0.55	90	Sh/Clst: lt gy to lt gn gy, calc, mic	0001-1L
			10	Cont : Mica-ad, cem	0001-2L
1430.00					0002
			95	Sh/Clst: lt gy to lt gn gy, calc, mic	0002-1L
			5	Cont : Mica-ad, cem	0002-2L
1460.00					0003
		1.10	75	Sh/Clst: dsk brn to brn blk, tuf	0003-1L
			20	Sh/Clst: lt gy to lt gn gy, mic	0003-2L
			5	Cont : Mica-ad, cem	0003-3L
1490.00					0004
		1.55	70	Sh/Clst: ol gy to drk ol gy, mic	0004-1L
			25	Sh/Clst: dsk brn to brn blk, tuf	0004-2L
			5	Ca : v col	0004-3L
1501.00	swc				0046
		1.21	100	Sh/Clst: drk gy to blk, mic	0046-1L
1520.00					0005
			75	Sh/Clst: ol gy to drk ol gy, lt gy to lt gn gy, mic	0005-1L
			25	Sh/Clst: dsk brn to brn blk, tuf	0005-2L
			tr	Ca : v col	0005-3L



Table 3 : Lithology description for well NOCS 6306/5-1T2

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	% Lithology description		
1521.00	swc			0047
	0.72	70 Sh/Clst: drk gy to blk, mic 30 Sltst : m y brn		0047-1L 0047-2L
1550.00				0006
	1.29	65 Sh/Clst: lt ol gy to drk ol gy, lt gy to lt gn gy, mic 35 Sh/Clst: dsk brn to brn blk, tuf tr Ca : v col		0006-1L 0006-2L 0006-3L
1580.00				0007
	1.33	90 Sh/Clst: lt ol gy to ol gy, lt gy to lt gn gy, mic 5 Sh/Clst: dsk brn to brn blk, tuf 5 Ca : v col		0007-1L 0007-2L 0007-3L
1610.00				0008
		90 Sh/Clst: lt ol gy to ol gy, lt gy to lt gn gy, mic 5 Sh/Clst: dsk brn to brn blk, tuf 5 Ca : v col		0008-1L 0008-2L 0008-3L
1640.00				0009
	0.94	90 Sh/Clst: m gy to drk gy, lt ol gy to lt gn gy 5 Sh/Clst: dsk brn to brn blk, tuf 5 Ca : v col		0009-1L 0009-2L 0009-3L
1670.00				0010
		90 Sh/Clst: m gy to drk gy, lt ol gy to lt gn gy 5 Sh/Clst: dsk brn to brn blk, tuf 5 Ca : v col		0010-1L 0010-2L 0010-3L

Table 3 : Lithology description for well NOCS 6306/5-1T2

Depth unit of measure: m

Depth	Type		Lithology description	Trb	Sample
Int	Cvd	TOC%	%		
1700.00					0011
			90 Sh/Clst: m gy to drk gy		0011-1L
			5 Sh/Clst: dsk brn to brn blk, tuf		0011-2L
			5 Ca : v col		0011-3L
1710.00					0012
		1.03	95 Sh/Clst: m gy to drk gy		0012-1L
			5 Ca : v col		0012-2L
1722.00					0013
			95 Sh/Clst: m gy to drk gy		0013-1L
			5 Ca : v col		0013-2L
1731.00					0014
			95 Sh/Clst: m gy to drk gy		0014-1L
			5 Ca : v col		0014-2L
1740.00					0015
			95 Sh/Clst: m gy to drk gy		0015-1L
			5 Ca : v col		0015-2L
1749.00					0016
		1.36	95 Sh/Clst: m gy to drk gy, glauc		0016-1L
			5 Ca : v col		0016-2L
1751.40	swc				0048
		0.20	100 S/Sst : w to lt gy, f, l		0048-1L
1751.50	swc				0049
		0.23	100 S/Sst : w to lt gy, f, l		0049-1L

Table 3 : Lithology description for well NOCS 6306/5-1T2

Depth unit of measure: m

Depth	Type				Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
.1752.40	swc					0050
		0.23	100	S/Sst : lt gy, f, l, slt		0050-1L
1752.50	swc					0051
		0.25	100	S/Sst : m lt gy, f, slt, cly		0051-1L
1753.90	swc					0052
		0.30	100	S/Sst : m lt gy, l		0052-1L
1754.00	swc					0053
		0.27	100	S/Sst : m lt gy, l		0053-1L
1754.90	swc					0054
		0.12	100	S/Sst : lt gy, l		0054-1L
1755.00	swc					0055
		0.11	100	S/Sst : lt gy, l		0055-1L
1757.00	swc					0056
		0.13	100	S/Sst : lt gy to w, l		0056-1L
1757.50	swc					0057
		0.08	100	S/Sst : w, calc		0057-1L
1775.00						0019
				95 Sh/Clst: m gy to drk gy, glauc		0019-1L
				5 Ca : v col		0019-2L

Table 3 : Lithology description for well NOCS 6306/5-1T2

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	% Lithology description		
1788.00				0020
	0.57	80 Sh/Clst: lt gy to m gy, slt, s 20 S/Sst : lt gy, pyr, slt, glauc, f		0020-1L 0020-2L
1800.00				0021
	0.80	80 Sltst : lt gy to m gy, slt, s 20 S/Sst : lt gy, pyr, slt, glauc, f		0021-1L 0021-2L
1809.00				0022
		90 Sltst : lt gy to m gy, slt, s 10 S/Sst : lt gy, pyr, slt, glauc, f		0022-1L 0022-2L
1818.00				0023
		90 Sh/Clst: lt gy to m gy, slt, s 10 S/Sst : lt gy, pyr, slt, glauc, f		0023-1L 0023-2L
1830.00				0024
		90 Sltst : lt gy to m gy, slt, s 10 S/Sst : lt gy, pyr, slt, glauc, f		0024-1L 0024-2L
1839.00				0025
		95 Sh/Clst: lt gy to m gy, slt, s 5 S/Sst : lt gy, pyr, slt, glauc, f		0025-1L 0025-2L
1860.00				0026
	0.80	90 Sltst : lt gy to m gy, slt, s 10 S/Sst : lt gy, pyr, slt, glauc, f		0026-1L 0026-2L
1872.00				0027
		90 Sltst : lt gy to m gy, slt, s 10 S/Sst : lt gy, pyr, slt, glauc, f		0027-1L 0027-2L

Table 3 : Lithology description for well NOCS 6306/5-1T2

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	% Lithology description		
1890.00				0028
	0.82	90 Sh/Clst: lt gy to m gy, slt, s 10 S/Sst : lt gy, pyr, slt, glauc, f tr Ca : v col		0028-1L 0028-2L 0028-3L
1900.00				0029
	0.78	90 Sh/Clst: lt gy to m gy, slt, s 10 S/Sst : lt gy, pyr, slt, glauc, f tr Ca : v col		0029-1L 0029-2L 0029-3L
1910.00				0030
		90 Sh/Clst: lt gy to m gy 10 S/Sst : lt gy, pyr, slt, glauc, f tr Ca : v col		0030-1L 0030-2L 0030-3L
1920.00				0031
		95 Sh/Clst: lt gy to m gy 5 Ca : pl y brn to dsk brn tr S/Sst : lt gy, pyr, slt, glauc, f		0031-1L 0031-3L 0031-2L
1930.00				0032
		95 Sh/Clst: lt gy to m gy 5 Ca : pl y brn to dsk brn tr S/Sst : lt gy, pyr, slt, glauc, f		0032-1L 0032-3L 0032-2L
1940.00				0033
	0.98	95 Sh/Clst: lt gy to m gy 5 Ca : pl y brn to dsk brn tr S/Sst : lt gy, pyr, slt, glauc, f		0033-1L 0033-3L 0033-2L
1950.00				0034
	0.79	85 Sh/Clst: lt gy to m gy 10 S/Sst : lt gy, pyr, slt, glauc, f 5 Ca : pl y brn to dsk brn		0034-1L 0034-2L 0034-3L

Table 3 : Lithology description for well NOCS 6306/5-1T2

Depth unit of measure: m

Depth	Type	Trb	Sample
Int Cvd	TOC%	%	Lithology description
1960.00			0035
		80	Sh/Clst: lt gy to m gy 0035-1L
		10	Ca : pl y brn to dsk brn 0035-3L
		5	S/Sst : lt gy, pyr, slt, glauc, f 0035-2L
		5	Cont : Mica-ad, cem, ns 0035-4L
1970.00			0036
		85	Sh/Clst: lt gy to m gy 0036-1L
		10	Ca : pl y brn to dsk brn 0036-3L
		5	S/Sst : lt gy, pyr, slt, glauc, f 0036-2L
1980.00			0037
	0.83	90	Sh/Clst: lt gy to m gy 0037-1L
		10	Ca : pl y brn to dsk brn 0037-3L
		tr	S/Sst : lt gy, pyr, slt, glauc, f 0037-2L
1980.00			0044
		90	Sh/Clst: lt gy to m gy 0044-1L
		10	Ca : pl y brn to dsk brn 0044-3L
		tr	S/Sst : lt gy, pyr, slt, glauc, f 0044-2L
1990.00			0038
	0.26	80	Sh/Clst: lt gy to m gy 0038-1L
		15	Ca : pl y brn to dsk brn 0038-3L
		5	S/Sst : lt gy, pyr, slt, glauc, f 0038-2L
2000.00			0039
		95	Sh/Clst: lt gy to m gy 0039-1L
		5	Ca : pl y brn to dsk brn 0039-3L
		tr	S/Sst : lt gy, pyr, slt, glauc, f 0039-2L
2010.00			0040
		90	Sh/Clst: lt gy to m gy 0040-1L
		10	Ca : pl y brn to dsk brn 0040-3L
		tr	S/Sst : lt gy, pyr, slt, glauc, f 0040-2L

Table 3 : Lithology description for well NOCS 6306/5-1T2

Depth unit of measure: m

Depth	Type		Trb	Sample
Int Cvd	TOC%	% Lithology description		
2022.00				0041
		90 Sh/Clst: lt gy to m gy		0041-1L
		10 Ca : pl y brn to dsk brn		0041-3L
		tr S/Sst : lt gy, pyr, slt, glauc, f		0041-2L
2031.00				0042
	0.81	90 Sh/Clst: lt gy to m gy		0042-1L
		5 Ca : pl y brn to dsk brn		0042-3L
		5 Other : pyr		0042-4L
		tr S/Sst : lt gy, pyr, slt, glauc, f		0042-2L
2049.00				0043
		95 Sh/Clst: lt gy to m gy		0043-1L
		5 Ca : pl y brn to dsk brn		0043-2L

Table 4: Rock-Eval table for well NOCS 6306/5-1T2

Depth unit of measure: m

Depth	Typ	Form	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
1339.00	swc		S/Sst : pl y brn	1.17	1.39	2.77	0.50	0.39	358	714	2.6	0.46	359	0045-1L
1400.00	cut		Sh/Clst: lt gy to lt gn gy	0.28	1.47	2.46	0.60	0.55	267	446	1.7	0.16	360	0001-1L
1460.00	cut		Sh/Clst: dsk brn to brn blk	0.89	3.24	3.71	0.87	1.10	295	337	4.1	0.22	362	0003-1L
1490.00	cut		Sh/Clst: ol gy to drk ol gy	0.67	3.00	3.53	0.85	1.55	194	228	3.7	0.18	361	0004-1L
1501.00	swc		Sh/Clst: drk gy to blk	2.38	4.14	2.83	1.46	1.21	342	234	6.5	0.37	346	0046-1L
1521.00	swc		Sh/Clst: drk gy to blk	0.67	2.26	0.97	2.33	0.72	315	135	2.9	0.23	413	0047-1L
1550.00	cut		Sh/Clst: lt ol gy to drk ol gy, lt gy to lt gn gy	0.85	5.03	3.26	1.54	1.29	390	253	5.9	0.14	371	0006-1L
1580.00	cut		Sh/Clst: lt ol gy to ol gy, lt gy to lt gn gy	0.85	5.48	3.30	1.66	1.33	412	248	6.3	0.13	375	0007-1L
1640.00	cut		Sh/Clst: m gy to drk gy, lt ol gy to lt gn gy	0.36	2.75	2.47	1.11	0.94	293	263	3.1	0.12	369	0009-1L
1710.00	cut		Sh/Clst: m gy to drk gy	0.38	2.38	2.47	0.96	1.03	231	240	2.8	0.14	365	0012-1L
1749.00	cut		Sh/Clst: m gy to drk gy	0.42	2.77	2.48	1.12	1.36	204	182	3.2	0.13	364	0016-1L
1751.40	swc		S/Sst : w to lt gy	2.25	1.23	2.04	0.60	0.20	612	1015	3.5	0.65	355	0048-1L
1751.50	swc		S/Sst : w to lt gy	2.72	1.23	2.66	0.46	0.23	530	1147	4.0	0.69	349	0049-1L
1752.40	swc		S/Sst : lt gy	2.19	2.57	2.10	1.22	0.23	1117	913	4.8	0.46	357	0050-1L



Table 4: Rock-Eval table for well NOCS 6306/5-1T2

Depth unit of measure: m

Depth	Typ	Form	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
1752.50	swc		S/Sst : m lt gy	2.50	2.44	2.27	1.07	0.25	961	894	4.9	0.51	360	0051-1L
1753.90	swc		S/Sst : m lt gy	3.65	2.14	2.60	0.82	0.30	713	867	5.8	0.63	357	0052-1L
1754.00	swc		S/Sst : m lt gy	2.79	2.26	2.51	0.90	0.27	837	930	5.1	0.55	359	0053-1L
1754.90	swc		S/Sst : lt gy	2.02	1.05	2.12	0.50	0.12	868	1752	3.1	0.66	353	0054-1L
1755.00	swc		S/Sst : lt gy	1.04	1.21	2.21	0.55	0.11	1080	1973	2.2	0.46	354	0055-1L
1757.00	swc		S/Sst : lt gy to w	1.26	0.52	2.46	0.21	0.13	394	1864	1.8	0.71	351	0056-1L
1757.50	swc		S/Sst : w	0.69	0.58	1.95	0.30	0.08	690	2321	1.3	0.54	355	0057-1L
1788.00	cut		S/Sst : lt gy	0.52	2.17	2.01	1.08	0.57	381	353	2.7	0.19	369	0020-2L
1800.00	cut		Sltst : lt gy to m gy	0.22	1.94	1.43	1.36	0.80	244	180	2.2	0.10	374	0021-1L
1860.00	cut		Sltst : lt gy to m gy	0.41	2.43	1.62	1.50	0.80	304	202	2.8	0.14	373	0026-1L
1890.00	cut		Sh/Clst: lt gy to m gy	0.14	1.07	1.06	1.01	0.82	130	129	1.2	0.12	382	0028-1L
1900.00	cut		S/Sst : lt gy	0.75	2.98	1.63	1.83	0.78	380	208	3.7	0.20	367	0029-2L
1940.00	cut		Sh/Clst: lt gy to m gy	0.66	3.47	1.98	1.75	0.98	354	202	4.1	0.16	369	0033-1L
1950.00	cut		S/Sst : lt gy	0.39	2.35	1.48	1.59	0.79	297	187	2.7	0.14	365	0034-2L
1980.00	cut		Sh/Clst: lt gy to m gy	0.06	1.42	2.31	0.61	0.83	172	279	1.5	0.04	370	0037-1L
1990.00	cut		Ca : pl y brn to dsk brn	0.05	0.21	2.52	0.08	0.26	80	966	0.3	0.19	327	0038-3L

Table 4: Rock-Eval table for well NOCS 6306/5-1T2

Depth unit of measure: m

Depth	Typ	Form	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
2031.00	cut		Sh/Clst: lt gy to m gy	0.13	1.27	1.44	0.88	0.81	156	177	1.4	0.09	365	0042-1L

Table 5 : Pyrolysis GC Data (S2 peak) as Percentage of Total Area for Well NOCS 6306/5-1T2

Depth unit of measure: m

Depth	Typ Lithology	C1	C2-C5	C6-C14	C15+	S2 from Rock-Eval	Sample
1339.00	swc S/Sst : pl y brn	7.77	45.85	42.44	3.94	1.39	0045-1L
1501.00	swc Sh/Clst: drk gy to blk	2.75	57.69	36.74	2.82	4.14	0046-1L
1550.00	cut Sh/Clst: lt ol gy to drk ol gy, lt gy to lt gn gy	3.56	57.04	38.10	1.29	5.03	0006-1L
1751.40	swc S/Sst : w to lt gy	2.20	41.69	51.92	4.19	1.23	0048-1L
1752.40	swc S/Sst : lt gy	1.36	44.50	52.03	2.11	2.57	0050-1L
1757.00	swc S/Sst : lt gy to w	1.92	41.15	52.75	4.19	0.52	0056-1L
1940.00	cut Sh/Clst: lt gy to m gy	2.77	45.05	46.67	5.51	3.47	0033-1L

Table 6a: MPLC Bulk Composition: Weight of EOM and Fraction for well NOCS 6306/5-1T2

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
1339.00	swc	S/Sst : pl y brn	7.8	36.2	0.3	0.3	0.1	35.6	0.5	35.7	0.42	0045-1L
1501.00	swc	Sh/Clst: drk gy to blk	6.1	37.5	0.2	0.2	0.2	36.8	0.5	37.0	1.33	0046-1L
1752.40	swc	S/Sst : lt gy	4.3	32.1	0.3	0.3	0.2	31.4	0.5	31.6	0.22	0050-1L
1950.00	cut	S/Sst : lt gy	1.2	1.4	0.4	0.4	0.2	0.4	0.8	0.6	0.90	0034-2L

Table 6b: MPLC Bulk Composition: Concentration of EOM and Fraction (wt ppm rock) for well NOCS 6306/5-1T2

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
1339.00	swc	S/Sst : pl y brn	4611	33	33	15	4528	67	4543	0045-1L
1501.00	swc	Sh/Clst: drk gy to blk	6198	40	40	37	6079	81	6116	0046-1L
1752.40	swc	S/Sst : lt gy	7447	58	58	55	7274	117	7330	0050-1L
1950.00	cut	S/Sst : lt gy	1120	320	320	160	320	640	480	0034-2L

Depth unit of measure: m

Depth	Typ	Lithology	EOM	Sat	Aro	Asph	NSO	HC	Non-HC	Sample
1339.00	swc	S/Sst : pl y brn	1097.97	8.05	8.05	3.60	1078.27	16.09	1081.87	0045-1L
1501.00	swc	Sh/Clst: drk gy to blk	466.04	3.07	3.07	2.80	457.11	6.14	459.91	0046-1L
1752.40	swc	S/Sst : lt gy	3385.36	26.67	26.67	25.36	3306.67	53.33	3332.03	0050-1L
1950.00	cut	S/Sst : lt gy	124.44	35.56	35.56	17.78	35.56	71.11	53.33	0034-2L

Table 6d: MPLC Bulk Composition: Material extracted from the rock (%) for well NOCS 6306/5-1T2

Depth unit of measure: m

Depth	Typ	Lithology	Sat	Aro	Asph	NSO	Total	HC	Non-HC	Recov. MPLC	Recov. Asph	Sample
1339.00	swc	S/Sst : pl y brn	0.73	0.73	0.33	98.21	100.00	1.47	98.53	-	-	0045-1L
1501.00	swc	Sh/Clst: drk gy to blk	0.66	0.66	0.60	98.08	100.00	1.32	98.68	-	-	0046-1L
1752.40	swc	S/Sst : lt gy	0.79	0.79	0.75	97.68	100.00	1.58	98.42	-	-	0050-1L
1950.00	cut	S/Sst : lt gy	28.57	28.57	14.29	28.57	100.00	57.14	42.86	-	0.14	0034-2L

Table 6e: MPLC Bulk Composition: Ratios for well NOCS 6306/5-1T2

Depth unit of measure: m

Depth	Typ	Lithology	Sat	HC	Asp	Sample
			Aro	Non-HC	NSO	
1339.00	swc	S/Sst : pl y brn	1.00	0.01	0.00	0045-1L
1501.00	swc	Sh/Clst: drk gy to blk	1.00	0.01	0.01	0046-1L
1752.40	swc	S/Sst : lt gy	1.00	0.02	0.01	0050-1L
1950.00	cut	S/Sst : lt gy	1.00	1.33	0.50	0034-2L



Table 7: Saturated Hydrocarbon Ratios (peak area) for well NOCS 6306/5-1T2

Depth unit of measure: m			Pristane	Pristane	Pristane/nC17	Phytane		nC17	
Depth	Typ	Lithology	nC17	Phytane	Phytane/nC18	nC18	CPI1	nC17+nC27	Sample
1339.00	swc	S/Sst : pl y brn	0.59	1.13	1.50	0.39	1.82	0.73	0045-1L
1501.00	swc	Sh/Clst: drk gy to blk	0.57	1.01	1.44	0.39	0.58	0.89	0046-1L
1752.40	swc	S/Sst : lt gy	0.59	1.04	1.36	0.43	1.00	0.70	0050-1L
1950.00	cut	S/Sst : lt gy	0.97	1.16	2.28	0.43	0.99	0.61	0034-2L

Table 8a: Aromatic Hydrocarbon Ratios (peak area) for well NOCS 6306/5-1T2

Depth unit of measure: m

Depth	Typ	Lithology	MNR	DMNR	BPhR	2/1MP	MPI1	MPI2	Rc	DBT/P	4/1MDBT	(3+2) /1MDBT	Sample
1339.00	swc	S/Sst : pl y brn	-	-	-	2.39	1.54	1.86	1.33	-	-	-	0045-1L
1501.00	swc	Sh/Clst: drk gy to blk	-	-	-	3.47	0.86	1.15	0.91	-	-	-	0046-1L
1752.40	swc	S/Sst : lt gy	-	-	-	1.46	0.72	0.84	0.83	-	-	-	0050-1L
1950.00	cut	S/Sst : lt gy	-	-	-	1.70	0.99	1.22	0.99	-	-	-	0034-2L

Table 8b: Aromatic Hydrocarbon Ratios (peak area) for well NOCS 6306/5-1T2

Depth unit of measure: m

Depth	Typ	Lithology	F1	F2	Sample
1339.00	swc	S/Sst : pl y brn	0.64	0.39	0045-1L
1501.00	swc	Sh/Clst: drk gy to blk	0.48	0.32	0046-1L
1752.40	swc	S/Sst : lt gy	0.50	0.29	0050-1L
1950.00	cut	S/Sst : lt gy	0.54	0.33	0034-2L

Table 9 : Thermal Maturity Data for well NOCS 6306/5-1T2

Depth unit of measure: m

Depth	Typ	Lithology	Vitrinite Reflectance (%)	Number of Readings	Standard Deviation (%)	Spore Fluorescence Colour	SCI	Tmax (°C)	Sample
1400.00	cut	Sh/Clst: lt gy to lt gn gy	0.30	20	0.05	3	-	360	0001-1L
1521.00	swc	Sh/Clst: drk gy to blk	0.31	20	0.05	3-4	-	413	0047-1L
1580.00	cut	Sh/Clst: lt ol gy to ol gy, lt gy to lt gn gy	0.33	12	0.06	3+4	-	375	0007-1L
1640.00	cut	Sh/Clst: m gy to drk gy, lt ol gy to lt gn gy	0.39	14	0.06	3	-	369	0009-1L
1749.00	cut	Sh/Clst: m gy to drk gy	0.40	20	0.05	4	-	364	0016-1L
1860.00	cut	Sltst : lt gy to m gy	0.47	20	0.08	4	-	373	0026-1L
1900.00	cut	Sh/Clst: lt gy to m gy	0.43	20	0.05	4	-	-	0029-1L
1940.00	cut	Sh/Clst: lt gy to m gy	0.44	20	0.06	3+4	-	369	0033-1L
1980.00	cut	Sh/Clst: lt gy to m gy	0.44	15	0.05	3+4	-	-	0044-1L
2031.00	cut	Sh/Clst: lt gy to m gy	0.44	11	0.04	3-5	-	365	0042-1L

Table 10: Visual Kerogen Composition Data for well NOCS 6306/5-1T2

Depth unit of measure: m

Depth	Typ	Lithology	Amorphous			Algal/Phytoplankton					Herbaceous				Woody				Coaly			SCI	Sample										
			AM%	FA	HA	AP%	Cy	Ta	Bo	Di	De	HE%	SP	Cu	De	WO%	FL	NF	De	CO%	FS			De									
1550.00	cut	Sh/Clst	55	*	**	TR	?							10	*	*	**					30		*	**				5	*	**	2.5-3.0	0006-1L

Table 11A: Tabulation of carbon isotope data for EOM/EOM - fractions for well NOCS 6306/5-1T2

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>
1752.40	swc	S/Sst	-	-28.36	-27.75	-	-	-	0050-1

Table 11B: Tabulation of cv values from carbon isotope data for well NOCS 6306/5-1T2

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>
1752.40	swc	S/Sst	-28.36	-27.75	-1.50	0050-1

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
1752.40	S/Sst	1.06	0.52	0.11	0.65	0.39	0.02	0.12	0.18	0.11	0.11	0.95	0.40	0.06	60.56	0050-1



List of Triterpane Distribution Ratios

---

Ratio 1:  $27Tm / 27Ts$

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

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

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

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

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

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

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

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

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

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

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

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

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

Table 12b: Variation in Sterane Distribution (peak height) SIR for Well NOCS 6306/5-1T2

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>
1752.40	S/Sst	0.74	44.19	79.14	1.34	0.81	0.49	0.35	0.65	0.79	3.40	0050-1

List of Sterane Distribution Ratios

---

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

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

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

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

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

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

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

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

Ratio 9:  $29aaS / 29aaR$

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

Table 12c: Raw triterpane data (peak height) m/z 191 SIR for Well NOCS 6306/5-1T2

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	
1752.40	S/Sst	1445.8	831.6	248.1	437.9	80.9	988.2	1044.3	925.9	0.0	0050-1
		4994.6	1337.5	166.9	384.7	0.0	7738.9	424.9	222.6	3322.3	
		2426.0	1937.5	1263.3	1160.6	598.3	455.1	208.3	512.2	207.7	

Table 12d: Raw sterane data (peak height) m/z 217 SIR for Well NOCS 6306/5-1T2

Depth unit of measure: m

Depth	Lithology	21a	22a	27dBS	27dBR	27daR	27daS	28dBS	28dBR	28daR*	Sample
		29dBS*	28daS*	27aaR	29dBR	29daR	28aaS	29daS*	28BS		
		28aaR	29aaS	29BR	29BS	29aaR					
1752.40	S/Sst	3690.1	1190.6	3686.4	2245.0	754.3	870.0	1461.1	856.3	1072.3	0050-1
		2279.4	1979.3	1292.5	1543.0	501.8	749.0	1331.8	1561.0		
		506.0	760.4	1744.3	1519.5	960.3					

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

Table 12e: Raw sterane data (peak height) m/z 218 SIR for Well NOCS 6306/5-1T2

Depth unit of measure: m

Depth	Lithology	27 $\beta$ BR	27 $\beta$ BS	28 $\beta$ BR	28 $\beta$ BS	29 $\beta$ BR	29 $\beta$ BS	30 $\beta$ BR	30 $\beta$ BS	Sample
1752.40	S/Sst	3453.5	3198.6	2412.8	2757.8	3051.1	3066.6	569.2	610.4	0050-1

Table 12f: Raw triterpane data (peak height) m/z 177 SIR for Well NOCS 6306/5-1T2

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>25nor28a<math>\beta</math></u>	<u>25nor30a<math>\beta</math></u>	<u>Sample</u>
1752.40	S/Sst	20.0	0.0	0050-1

Table 13a: Variation in Triaromatic Sterane Distribution (peak height) for Well NOCS 6306/5-1T2

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Ratio1</u>	<u>Ratio2</u>	<u>Ratio3</u>	<u>Ratio4</u>	<u>Ratio5</u>	<u>Sample</u>
1752.40	S/Sst	0.55	0.55	0.29	0.28	0.36	0050-1

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 13b: Variation in Monoaromatic Sterane Distribution (peak height) for Well NOCS 6306/5-1T2

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>
1752.40	S/Sst	0.15	0.12	0.10	0.10	0050-1

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 13c: Aromatisation of Steranes (peak height) for Well NOCS 6306/5-1T2

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>Ratio1</u>	<u>Ratio2</u>	<u>Sample</u>
1752.40	S/Sst	0.48	0.97	0050-1

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

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

Table 13d: Raw triaromatic sterane data (peak height) m/z 231 for Well NOCS 6306/5-1T2

Depth unit of measure: m

<u>Depth</u>	<u>Lithology</u>	<u>a1</u>	<u>b1</u>	<u>c1</u>	<u>d1</u>	<u>e1</u>	<u>f1</u>	<u>g1</u>	<u>Sample</u>
1752.40	S/Sst	568.3	556.4	190.0	1022.7	518.5	512.2	462.0	0050-1

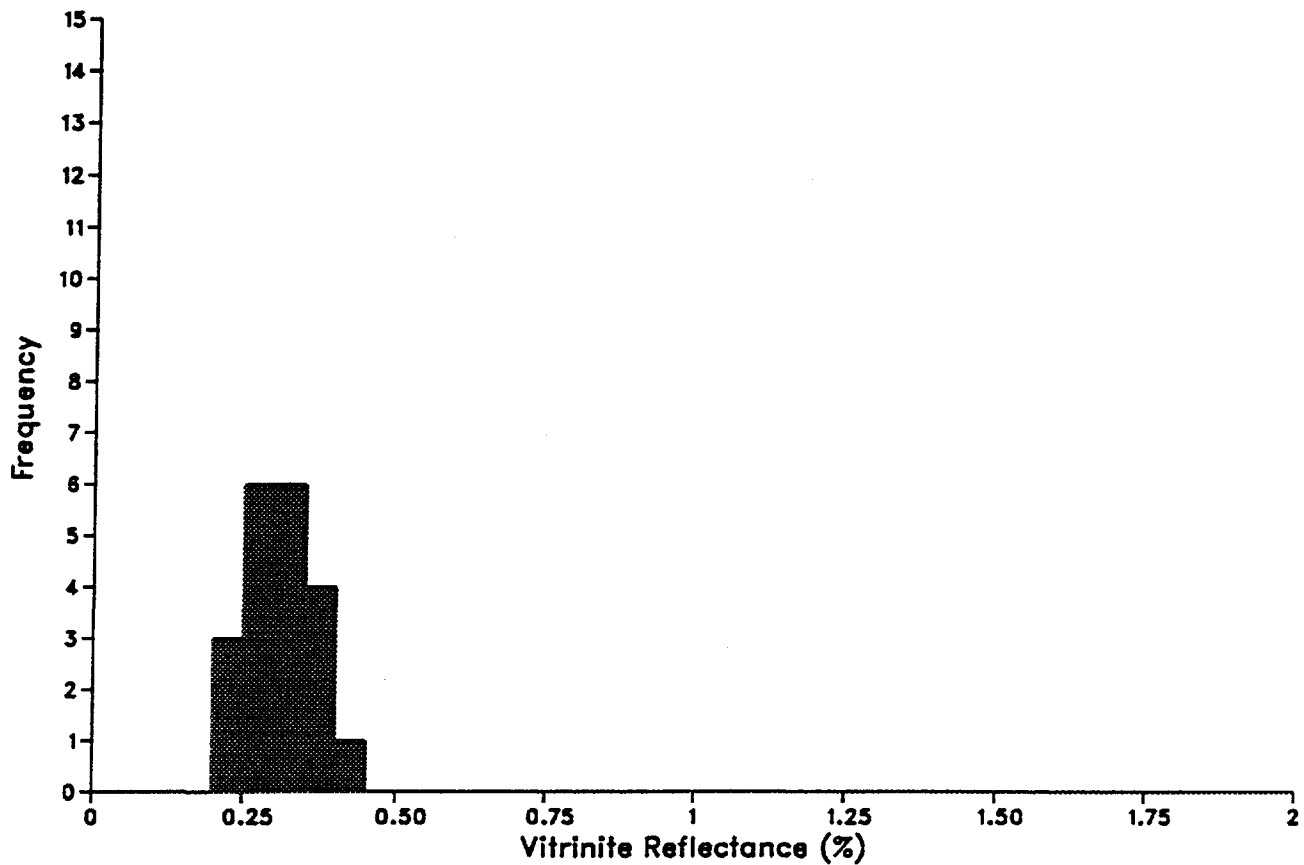
Table 13e: Raw monoaromatic sterane data (peak height) m/z 253 for Well NOCS 6306/5-1T2

Depth unit of measure: m

Depth	Lithology	A1	B1	C1	D1	E1	F1	G1	H1	I1	Sample
1752.40	S/Sst	160.8	119.6	425.6	300.7	904.3	86.4	581.6	200.0	15.6	0050-1

# Vitrinite Reflectance Histogram

Well: NOCS 6306/5-IT2  
Depth: 1400.00(m)

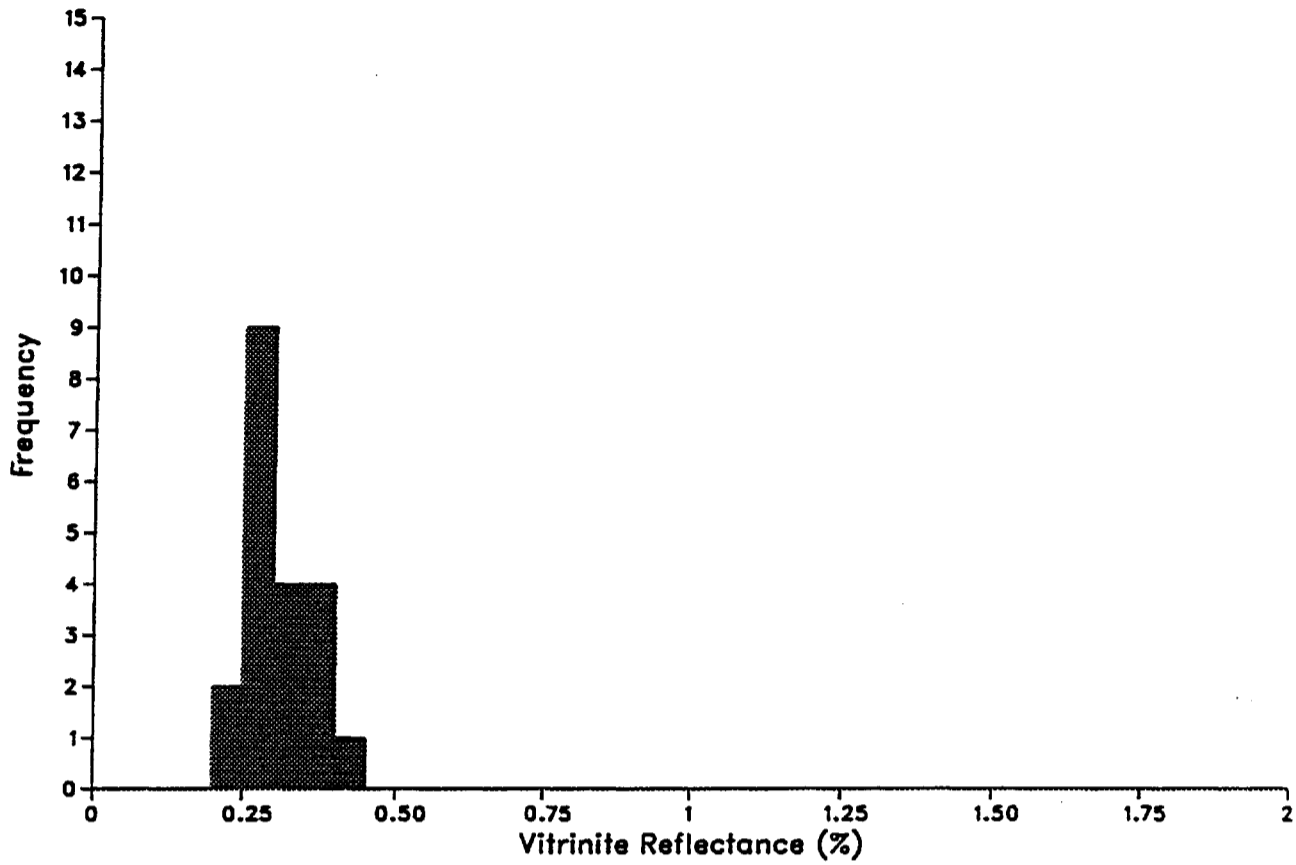


Statistics:	Mean	St.Dev.	n
Indigenous Population (from 0.200 to 0.450):	0.30	0.05	20
Population Two (from 0.000 to 0.000):	0.00	0.00	0
Population Three (from 0.000 to 0.000):	0.00	0.00	0

Readings:									
0.220	0.220	0.220	0.260	0.260	0.270	0.270	0.280	0.280	0.300
0.300	0.310	0.320	0.330	0.330	0.350	0.360	0.360	0.360	0.410

# Vitrinite Reflectance Histogram

Well: NOCS 6306/5-1T2  
 Depth: 1521.00(m)



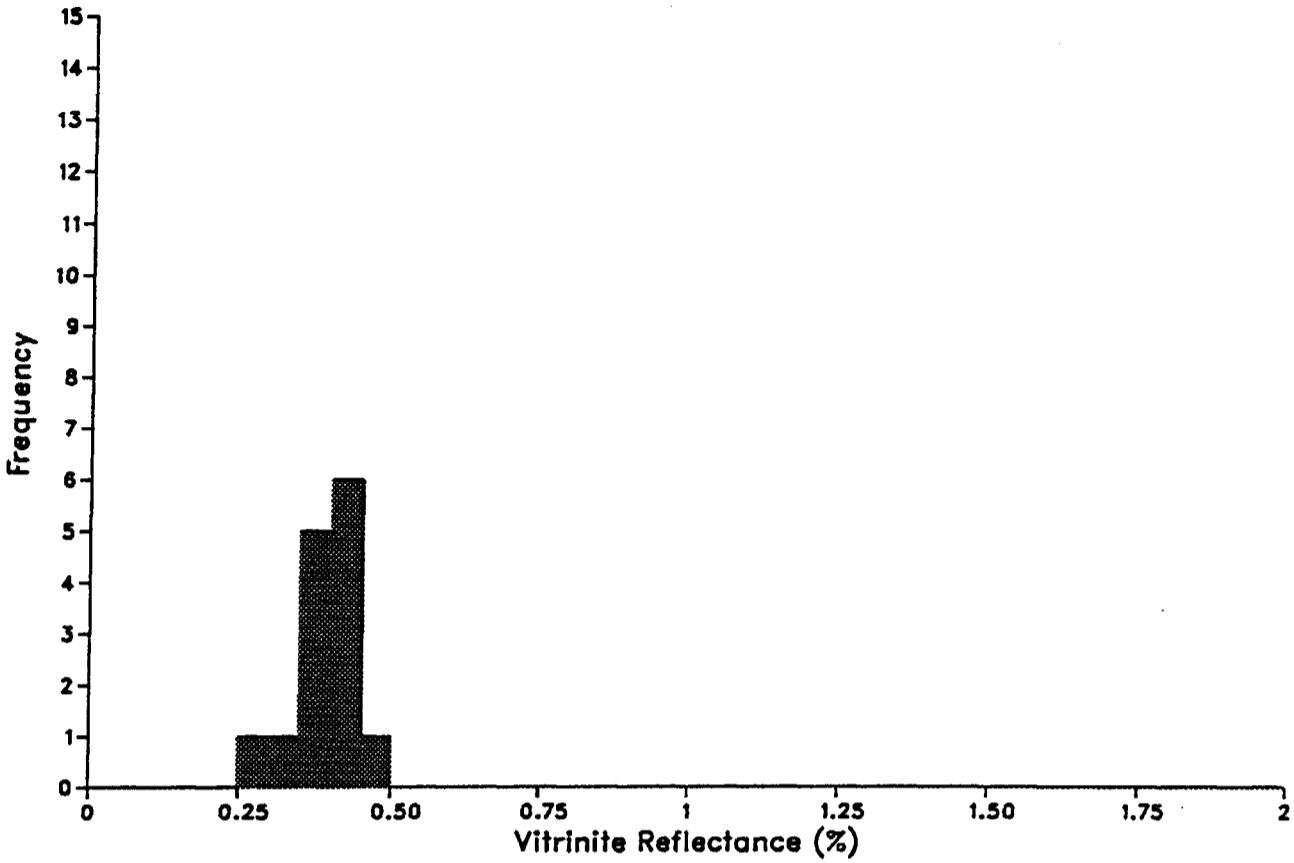
Statistics:	Mean	St.Dev.	n
Indigenous Population (from 0.200 to 0.450):	0.31	0.05	20
Population Two (from 0.000 to 0.000):	0.00	0.00	0
Population Three (from 0.000 to 0.000):	0.00	0.00	0

Readings:									
0.210	0.240	0.270	0.270	0.270	0.290	0.290	0.290	0.290	0.290
0.290	0.320	0.320	0.330	0.340	0.350	0.360	0.360	0.370	0.410



# Vitrinite Reflectance Histogram

Well: NOCS 6306/5-1T2  
 Depth: 1640.00(m)



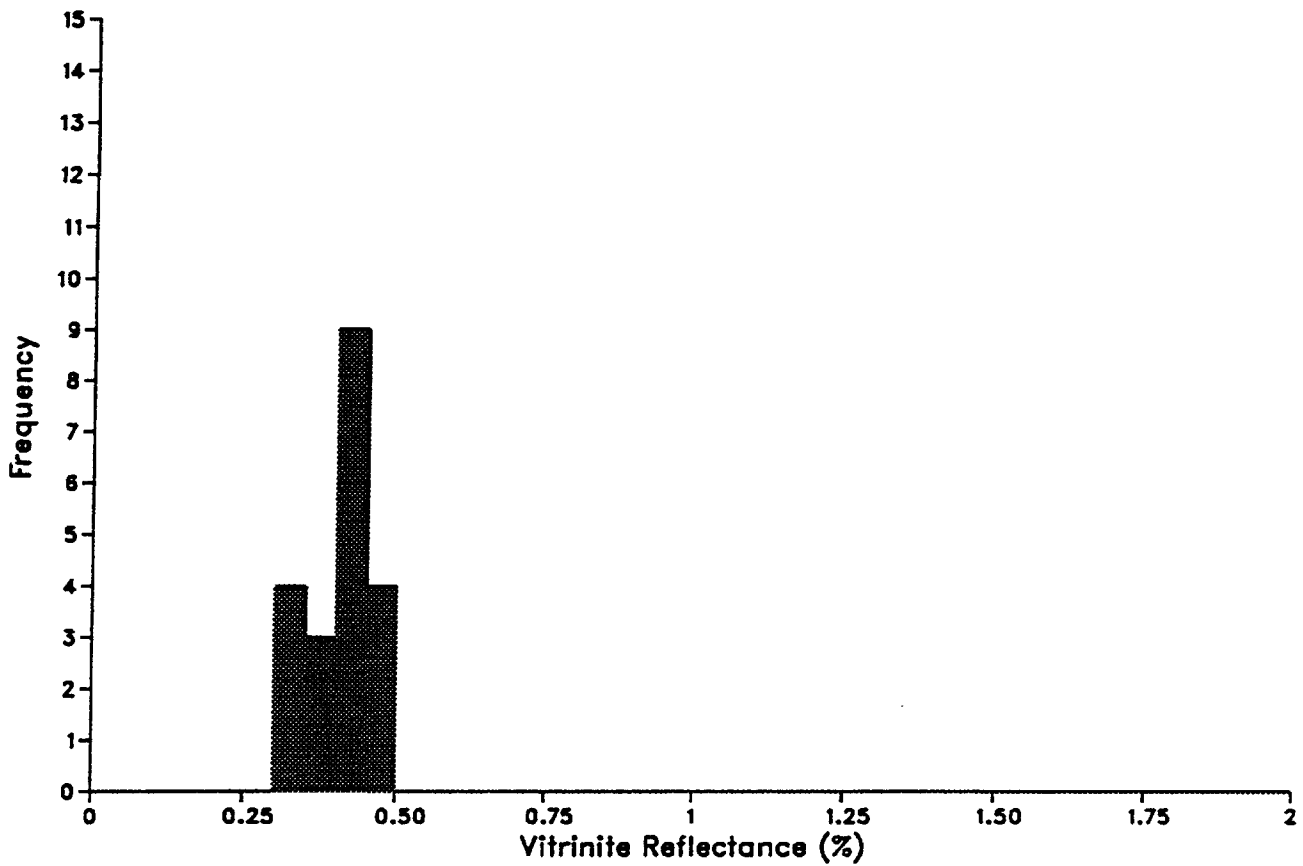
Statistics:	Mean	St.Dev.	n
Indigenous Population (from 0.250 to 0.500):	0.39	0.06	14
Population Two (from 0.000 to 0.000):	0.00	0.00	0
Population Three (from 0.000 to 0.000):	0.00	0.00	0

Readings:									
0.270	0.300	0.360	0.380	0.380	0.380	0.390	0.400	0.430	0.430
0.430	0.440	0.440	0.480						



# Vitrinite Reflectance Histogram

Well: NOCS 6306/5-1T2  
 Depth: 1749.00(m)

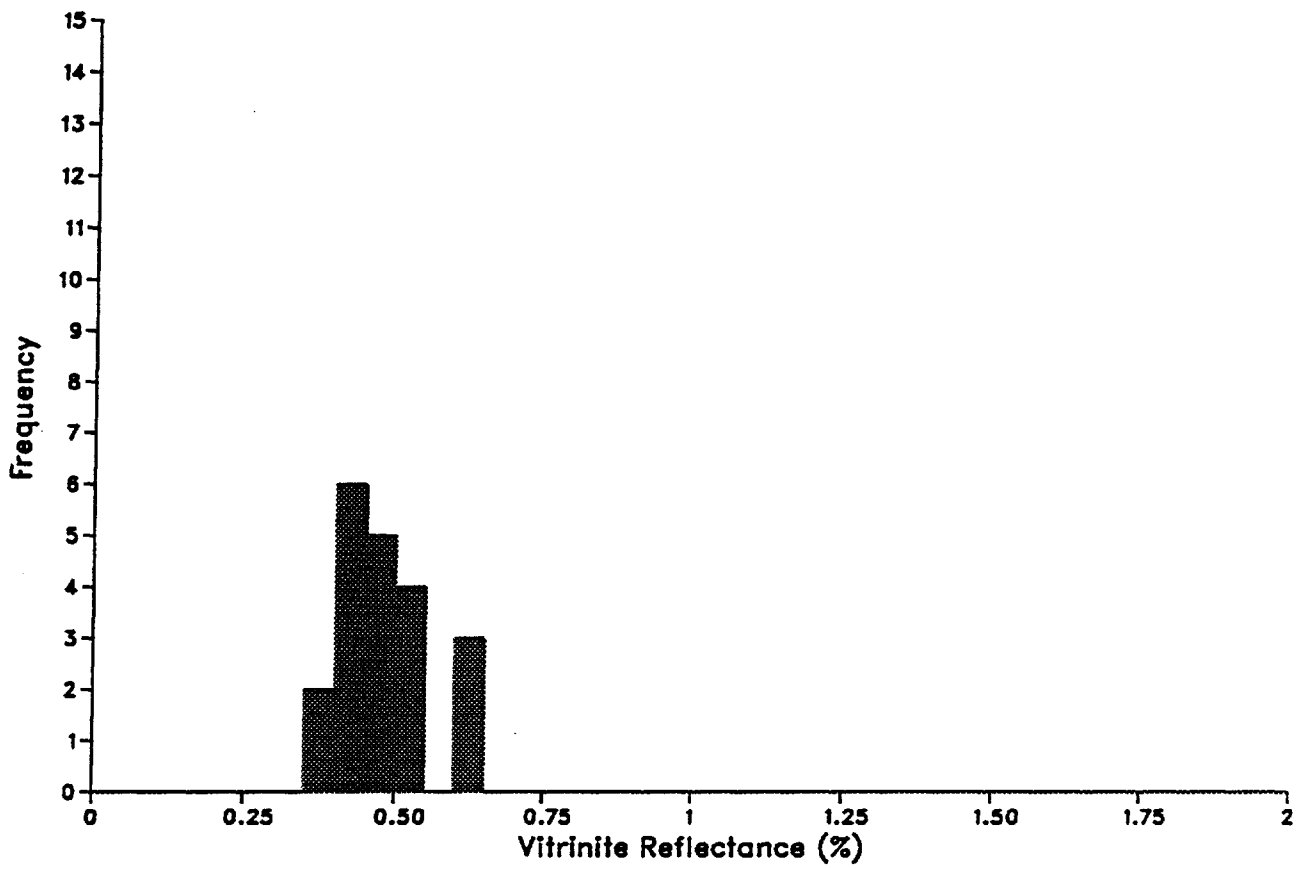


Statistics:	Mean	St.Dev.	n
Indigenous Population (from 0.300 to 0.500):	0.40	0.05	20
Population Two (from 0.000 to 0.000):	0.00	0.00	0
Population Three (from 0.000 to 0.000):	0.00	0.00	0

Readings:									
0.300	0.320	0.330	0.340	0.370	0.370	0.380	0.400	0.410	0.420
0.420	0.420	0.430	0.430	0.440	0.440	0.450	0.460	0.470	0.480

# Vitrinite Reflectance Histogram

Well: NOCS 6306/5-1T2  
Depth: 1860.00(m)

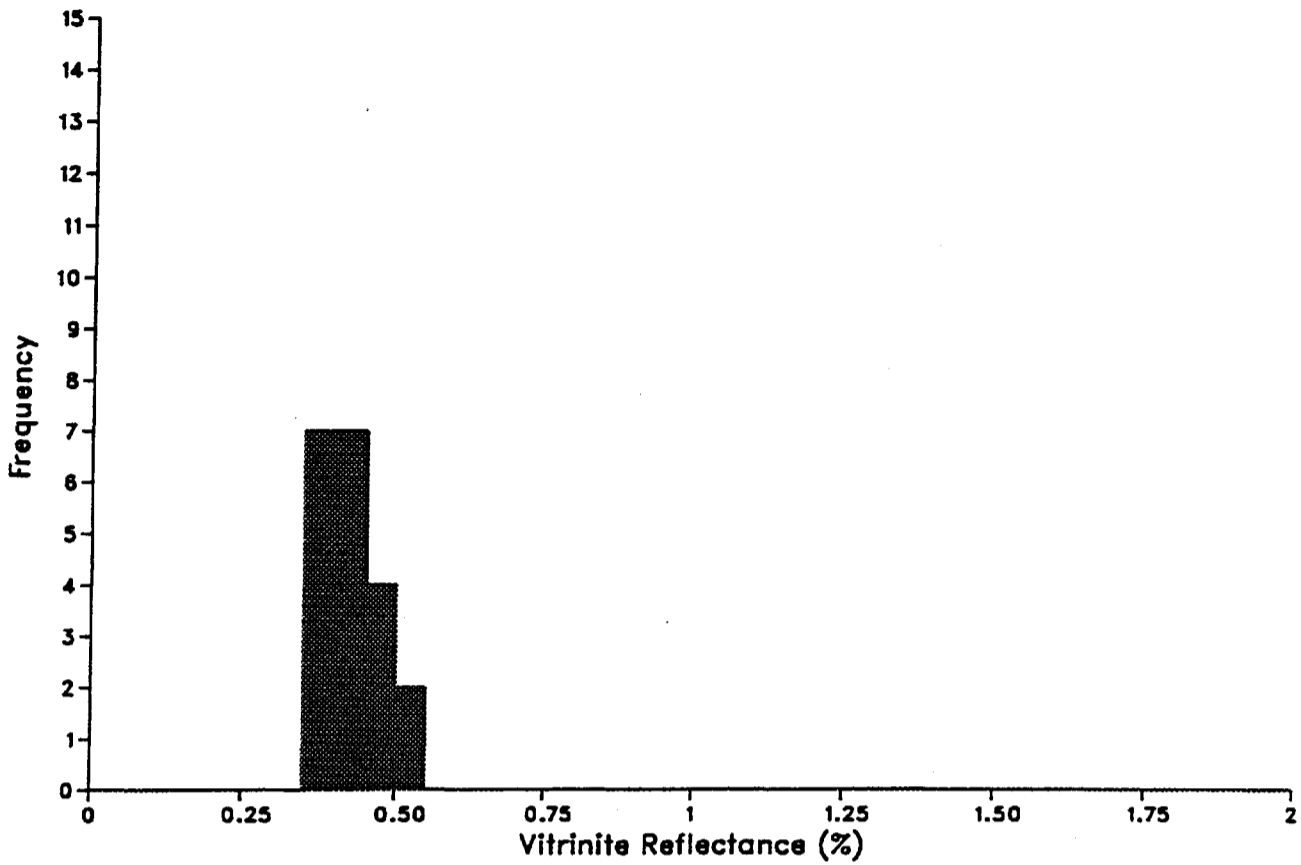


Statistics:	Mean	St.Dev.	n
Indigenous Population (from 0.350 to 0.650):	0.47	0.08	20
Population Two (from 0.000 to 0.000):	0.00	0.00	0
Population Three (from 0.000 to 0.000):	0.00	0.00	0

Readings:									
0.370	0.380	0.400	0.400	0.420	0.430	0.430	0.440	0.450	0.450
0.460	0.460	0.470	0.500	0.500	0.530	0.540	0.600	0.610	0.630

# Vitrinite Reflectance Histogram

Well: NOCS 6306/5-1T2  
 Depth: 1900.00(m)

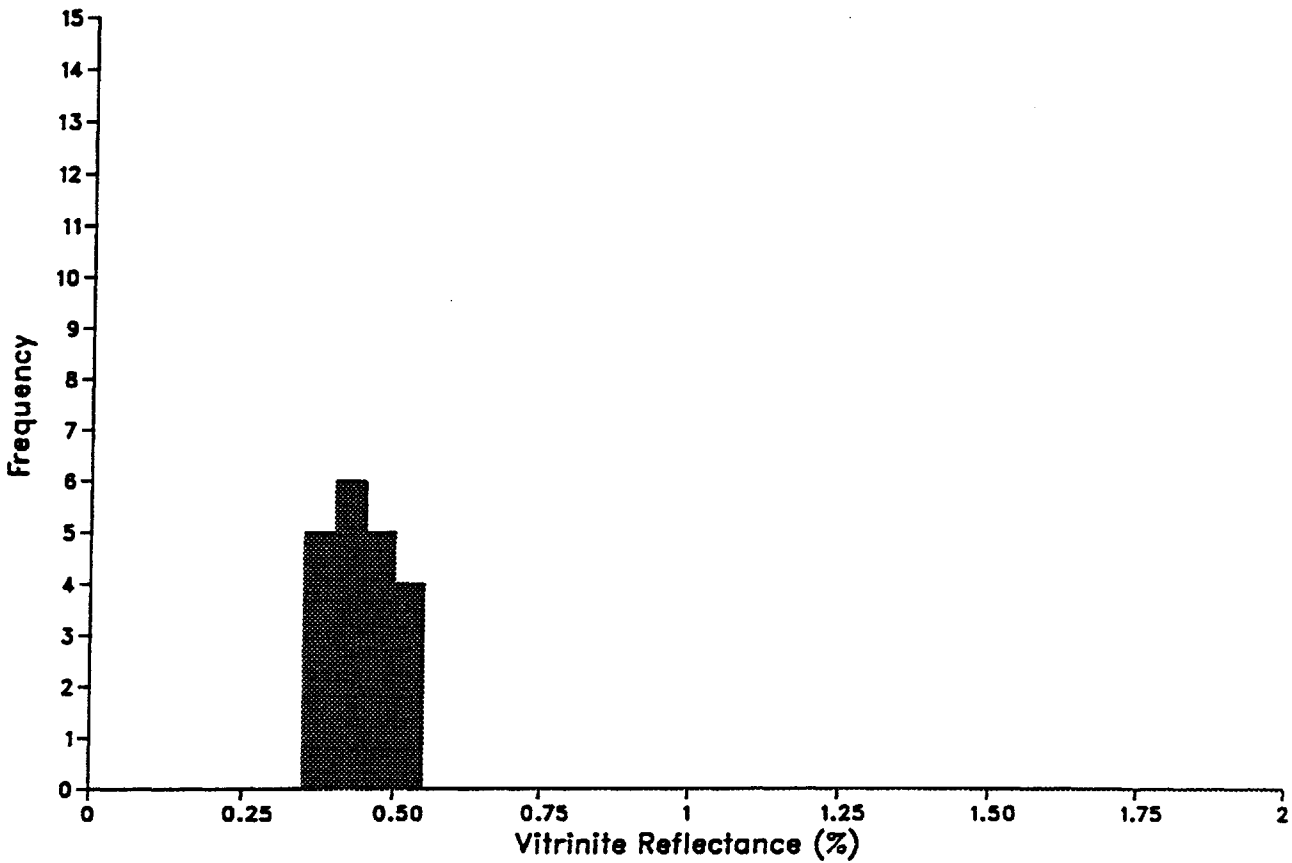


Statistics:	Mean	St.Dev.	n
Indigenous Population (from 0.350 to 0.550):	0.43	0.05	20
Population Two (from 0.000 to 0.000):	0.00	0.00	0
Population Three (from 0.000 to 0.000):	0.00	0.00	0

Readings:									
0.370	0.370	0.380	0.380	0.390	0.390	0.390	0.410	0.420	0.420
0.420	0.430	0.440	0.440	0.450	0.470	0.480	0.490	0.510	0.510

# Vitrinite Reflectance Histogram

Well: NOCS 6306/5-1T2  
Depth: 1940.00(m)

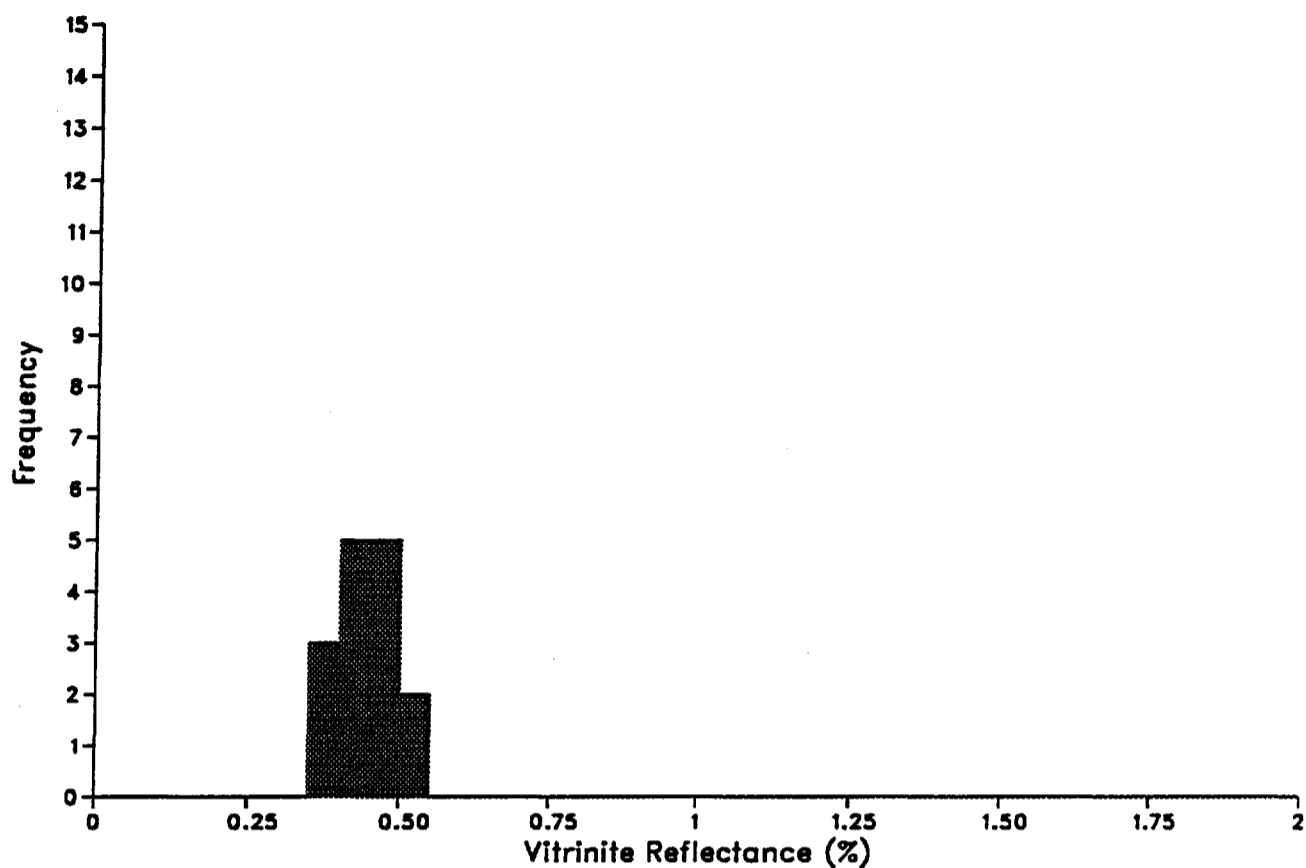


Statistics:	Mean	St.Dev.	n
Indigenous Population (from 0.350 to 0.550):	0.44	0.06	20
Population Two (from 0.000 to 0.000):	0.00	0.00	0
Population Three (from 0.000 to 0.000):	0.00	0.00	0

Readings:									
0.350	0.370	0.380	0.380	0.390	0.400	0.410	0.420	0.420	0.430
0.440	0.450	0.450	0.450	0.460	0.470	0.520	0.520	0.530	0.540

# Vitrinite Reflectance Histogram

Well: NOCS 6306/5-1T2  
 Depth: 1980.00(m)

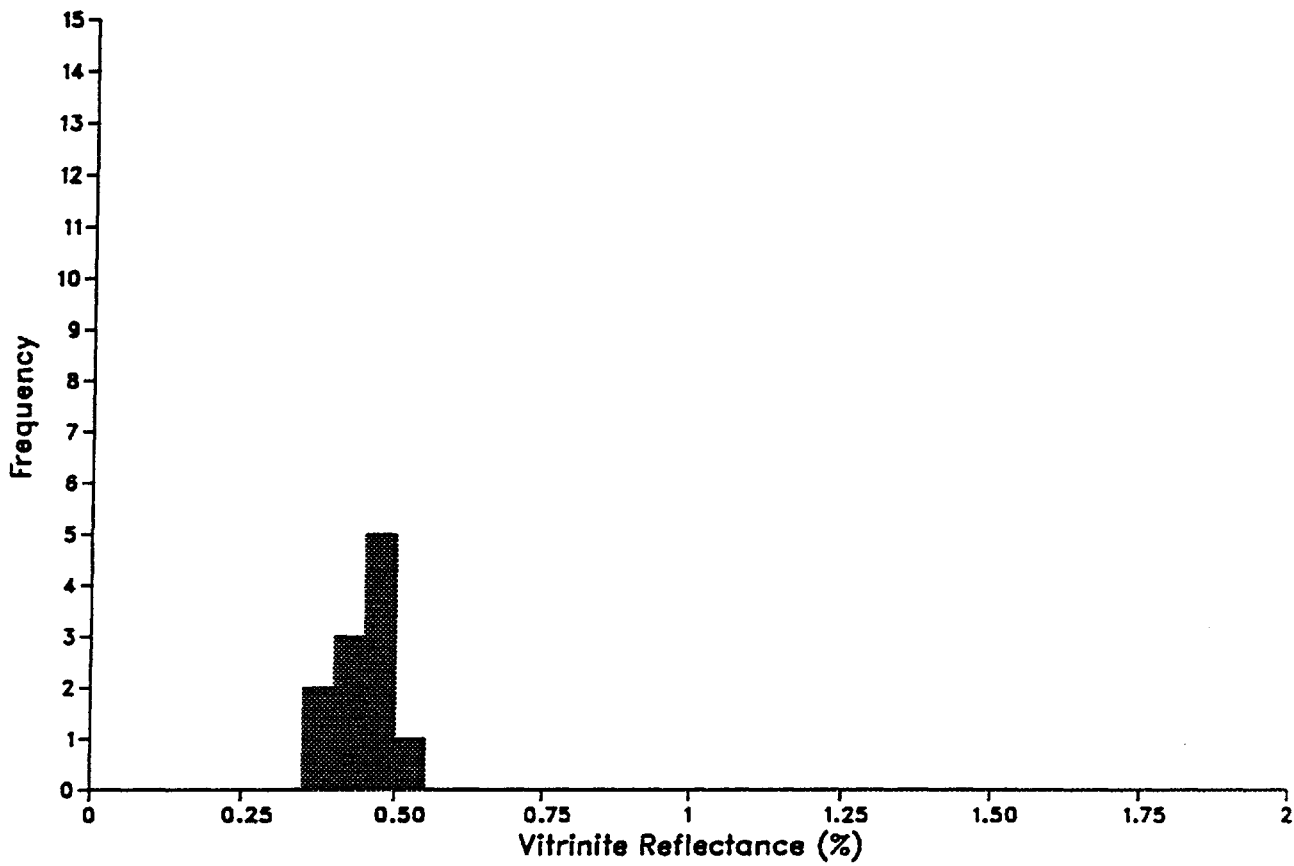


Statistics:	Mean	St.Dev.	n
Indigenous Population (from 0.350 to 0.550):	0.44	0.05	15
Population Two (from 0.000 to 0.000):	0.00	0.00	0
Population Three (from 0.000 to 0.000):	0.00	0.00	0

Readings:									
0.370	0.370	0.380	0.400	0.410	0.410	0.420	0.430	0.450	0.450
0.450	0.460	0.490	0.510	0.530					

# Vitrinite Reflectance Histogram

Well: NOCS 6306/5-1T2  
Depth: 2031.00(m)



Statistics:	Mean	St.Dev.	n
Indigenous Population (from 0.350 to 0.550):	0.44	0.04	11
Population Two (from 0.000 to 0.000):	0.00	0.00	0
Population Three (from 0.000 to 0.000):	0.00	0.00	0

Readings:
0.380 0.390 0.400 0.420 0.430 0.450 0.460 0.460 0.470 0.470 0.510