

TABLE

Daily mud properties		Date	Date
System : Boredata Sandnes		14/12-1987	14/12-1987
Well: 6407/10-1	Mud Contractor: M-I NORGE A/S		
Norsk Hydro	Data: "Mid depth" from table 3, otherwise from table 14	3	14 3

Date	Mid. depth m, MD	Mud dens. (SG)	PV cps	YP mPa	GEL		Ph	100 psi (cc)	HP/HT (cc)	Cl- inn/out mg/l	Alkalinity			Ca++ inn/out mg/l	Oil %	Sol %	H2O %	V.G. meter at 115 gr. F						Mud type
					0	10					Pf	Pm	Mf					600 rpm	300 rpm	200 rpm	100 rpm	6 rpm	3 rpm	
870505	365	1.03	0	0																			SPUD	
870506	365	1.03	0	0																				SPUD
870507	376	1.03	0	0																				SPUD
870508	442	1.03	0	0																				SPUD
870509	442	1.03	0	0																				SPUD
870510	590	1.03	0	0																				SPUD
870511	1117	1.2	0	0																				SPUD
870512	1117	1.2	22	10	1	3	8.9	3.8		76000/76000		0.6	0.5		15		64	42	32	20	3	2	KCL	
870513	1117	1.2	21	11	1	2	8.5	3.8		78000/78000		0.4	1		10		65	44	34	21	3	2	KCL	
870514	1380	1.6	36	14	2	10	8.7	4.8		82000/82000	0.15	0.7	1		22		101	65	49	31	5	3	KCL	
870515	1759	1.6	45	15	2	13	8.7	4.4		104000/104000		0.5	0.6		23		120	75	55	35	6	5	KCL	
870516	2100	1.6	45	14	2	11	8.8	4.2		98000/98000		0.5	0.5		22		118	73	55	34	5	4	KCL	
870517	2136	1.6	45	11	2	14	9	4.2		98000/98000	0.5	0.5	0.5		22		113	68	50	31	5	4	KCL	
870518	2213	1.6	45	11	2	22	9	4.4		97000/97000	0.05	0.5	0.5		23		113	68	50	31	5	4	KCL	
870519	2237	1.6	44	11	3	24	8.8	4.6		97000/97000	0.05	0.4	0.5		23		110	67	51	32	6	5	KCL	
870520	2327	1.6	40	11	3	24	9	4.6		84000/84000	0.05	0.5	0.5		23		101	61	45	29	5	4	KCL	
870521	2361	1.6	39	11	3	23	8.7	4.8	16.1	82000/82000	0	0.3	0.4		23		99	60	44	28	5	4	KCL	
870522	2400	1.6	37	11	3	24	9	4.8	16.3	86000/86000	0.05	0.4	0.6		23		95	58	42	26	5	4	KCL	
870523	2485	1.6	37	11	3	25	9	5	16.4	88000/88000	0	0.4	0.5		23		95	58	44	29	5	4	KCL	
870524	2540	1.6	36	10	3	19	8.5	4.8	16.4	93000/93000	0	0.3	0.5		23		91	55	40	26	7	6	KCL	
870525	2540	1.6	35	10	3	21	8.4	4.8	17.3	89000/89000	0	0.2	0.4		23		90	55	40	25	7	6	KCL	
870526	2545	1.6	31	9	3	19	8.6	4.6	17.3	87000/87000	0	0.3	0.6		23		90	55	40	25	7	6	KCL	
870527	2545	1.6	31	9	3	19	8.5	4.8	17.3	89000/89000	0	0.3			23		80	49	36	28	6	5	KCL	
870528	2545	1.45	24	8	2	13	8.5	4.9	17.3	76000/76000	0	0.2	0.4		18		80	49	36	28	6	5	KCL	
870529	2545	1.52	23	7	1	11	8.6	4.5	14.6	74000/74000	0	0.3	0.4		20		60	37	26	15	3	2	KCL	
870530	2572	1.52	28	8	2	12	9.8	4.5	13.8	78000/78000	0.15	1.1	0.6		19		72	44	30	17	3	2	KCL	
870531	2610	1.52	32	7	2	11	9.1	4.5	14.1	74000/74000	0.05	0.4	0.4		20		77	45	33	20	3	2	KCL	
870601	2724	1.52	33	7	2	12	9.2	4.2	14.6	76000/76000	0.05	0.4	0.4		20		81	48	37	22	4	3	KCL	
870602	2773	1.52	32	8	2	9	10.5	3.8	14.6	81000/81000	0.1	0.8	0.5		21		79	47	37	23	4	3	KCL	
870603	2817	1.52	32	7	2	8	10.1	4	14.6	79000/80000	0.1	0.8	0.4		21		79	47	36	22	4	3	KCL	
870604	2848	1.52	30	7	1	6	9.9	3.4	13.6	84000/84000	0.1	0.7	0.4		21		76	45	34	21	3	2	KCL	
870605	2933	1.52	31	8	1	7	10.1	3.4	13.4	82000/82000	0.1	0.6	0.5		20		77	46	34	21	4	3	KCL	
870606	2983	1.52	30	9	2	8	9.8	3.8	13.4	83000/83000	0.1	0.5	0.4		19		78	48	36	23	4	3	KCL	
870607	3011	1.52	30	8	2	7	9.3	3.2	13	84000/85000	0.1	0.3	0.5		19		75	45	34	21	4	3	KCL	
870608	3031	1.52	29	8	2	9	8.9	3.2	14	85000/85000	0.1	0.3	0.8		20		71	43	34	20	3	2	KCL	
870609	3055	1.52	30	9	2	6	9.8	3.2	12.4	81000/81000	0.1	0.5	0.8		19		77	47	35	22	4	3	KCL	
870610	3157	1.5	29	8	2	7	8.9	3	14.2	82000/82000	0.1	0.6	0.7		19		73	44	33	20	3	2	KCL	
870611	3227	1.5	32	9	2	8	9.1	3	11.6	81000/81000	0.1	0.4	0.6		20		81	49	38	23	4	3	KCL	
870612	3320	1.5	34	9	2	7	9.4	3.4	12	82000/82000	0.1	0.8	0.6		20		85	51	42	25	4	3	KCL	
870613	3346	1.5	37	9	2	9	9	3	13.2	80000/80000	0.1	0.8	0.6		20		91	54	41	25	4	3	KCL	

((( (ooo)	<b>Daily mud properties</b>	Date 14/12-1987	Date 14/12-1987
	System : Boredata Sandnes		
Norsk Hydro	Well: 6407/10-1 Mud Contractor: M-I NORGE A/S Data: "Mid depth" from table 3, otherwise from table 14	3	14

Date	Mid. depth m, MD	Mud dens. (SG)	PV cps	YP mPa	GEL		Ph	100 psi (cc)	HP/HT (cc)	Cl- inn/out mg/l	Alkalinity			Ca++ inn/out mg/l	Oil %	Sol %	H2O %	V.G. meter at 115 gr. F						Mud type	
					0 mPa	10 mPa					Pf	Pm	Mf					600 rpm	300 rpm	200 rpm	100 rpm	6 rpm	3 rpm		
870614	3346	1.42	30	8	2	8	8.7	3.6	12.6	83000/83000	0.1	0.5	0.6			0		75	45	34	22	4	3	KCL	
870615	3346	1.42	33	8	2	9	8.8	3.4	12.4	83000/83000	0	0.5	0.6			17		82	49	37	23	4	3	KCL	
870616	2296	1.42	33	8	2	9	9	3.4	12.4	83000/83000	0.1	0.8	1			17		82	49	37	23	4	3	KCL	
870617	416	1.42	33	8	2	9	9	3.4	12.4	83000/83000	0.1	0.8	1			17		82	49	37	23	4	3	KCL	
870618	0	1.42	33	8																					KCL

TABLE B-6

((( (ooo) Norsk Hydro	<u>M u d c o n s u m p t i o n</u>	Date
	System : Boredata Sandnes	13/1-1988
	Well: 6407/10-1	
	Mud company: M-I NORGE A/S	13

Hole size: 36

BARITE	(Mt)	16
BENTONITE	(Mt)	16
CAUSTIC SODA	(Kg)	150
LIME	(Kg)	160

Hole size: 17.5

BARITE	(Mt)	118
BENTONITE	(Mt)	35
CAUSTIC SODA	(Kg)	350
LIME	(Kg)	373

Hole size: 12.25

BARITE	(Mt)	291
CAUSTIC SODA	(Kg)	868
POTASSIUM CL. (KCl)	(Kg)	26960
POTASSIUM CL. (KCl) Brine	(m3)	293
SODIUM BICARBONATE	(Kg)	1207
1) PAC POLYMER REG	(Kg)	6614
2) PAC POLYMER SUPER	(Kg)	3916
XANTAN POLYMER	(Kg)	172
Others:		
O2 Scavenger	(l)	208
ID Film	(l)	200
Anco Cide	(l)	250

Hole size: 8.5

BARITE	(Mt)	73
CAUSTIC SODA	(Kg)	400
GYPSUM	(Kg)	1068
LIME	(Kg)	503
POTASSIUM CL. (KCl)	(Kg)	9239
POTASSIUM CL. (KCl) Brine	(m3)	101
SODIUM BICARBONATE	(Kg)	1375
PAC POLYMER REG	(Kg)	1512
PAC POLYMER SUPER	(Kg)	2542
3) PIPE FREEING AGENT	(l)	1000
Others:		
Imco Spot	(Kg)	1136

- 1) ANTISOL FL 30000
- 2) ANTISOL FL 100
- 3) ACCOUNT FOR 20% OF INTERVALL COST

TABLE B-7 TOTAL MUD CONSUMPTION

<u>Materials</u>	<u>Unit</u>	<u>Quantity</u>
Barite	MT	498
Bentonite	MT	51
Caustic Soda	kg	1418
Lime	kg	1036
KCl powder	kg	36199
KCl brine	M <sup>3</sup>	394
Sodium bicarbonate	kg	2582
Antisol FL 3000	kg	8126
Antisol FL 100	kg	6458
Xantan Polymer	kg	172
O <sub>2</sub> Scavenger	l	208
ID Film	l	200
Anco Cide	l	250
Pipe Freeing Agent	l	1000
Imco Spot	kg	1136

Kontrakt/Agreement

Rapport/Report

Dok.id./Doc.id.

Tilleggsavtale/Amendment

<p>Fordeling/Distribution</p> <p>Norsk Hydro (3) Statoil (3) Shell (2) Agip (2) Deminex (2) OD (1)</p>	<p>Tittel/Forfatter(e) Title/Author(s)</p> <p style="text-align: center;"><b>CHARACTERISATION OF SHOWS</b></p> <p style="text-align: center;"><b>WELL 6407/10-1</b></p> <p style="text-align: center;"><b>Nils Telnæs</b></p>
<p><input type="checkbox"/> Fortrolig/Confidential    <input type="checkbox"/> Hydro-intern    <input type="checkbox"/> Apen/Open</p>	

Resymé/konklusjon/anbefaling  
Summary/Conclusion/Recommendation

87-1433-BA

21 OKT. 1987

**REGISTRERT**

Emneord/Keywords

Organic geochemistry, 6407/10-1, Njord hydrocarbon shows.

OLJEDIREKTORATET

Sider/Pages - Bilag/Appendix

5-1

Divisjon/seksjon/avdeling  
Division/Section/Dept.

Utforskning  
Njord Project.

Kvadrant/Blokk-Brønn  
Quadrant/Block-Well

Blokk 6407/10-1

Tilleggsnr./Amendment No.

Revisjonsnr./Revision No.

Godkj. sign./Approved sign.



Prosj.nr./Project No.

K132110C

Lisens nr./Licens No.

PL132

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## RESULTS AND DISCUSSION

5 sandstones and siltstones were extracted. The samples were chosen to coincide with reported shows from the rig. the extraction yields are listed in Table 1:

<u>Depth</u>	<u>Extraction yield,ppm</u>
2749.1 m	54
2753.1 m	32
2837.0 m	13
2848.6 m	14
2863.1 m	21

Table 1: Extraction yields from well 6407/10-1.

In order to assess the maturity of the extracted hydrocarbons and compare them with the oils found in wells 6407/7-1 and 6407/7-2 they were analysed by GC-High Resolution Mass Spectrometry. High resolution was used to enable the analysis of saturated - and aromatic hydrocarbons simultaneously.



Depth	%20S	% $\alpha\beta\beta$	Hopane/moretane
2749.1 m	21	23	2.7
2753.1 m	-	-	2.3
2837.0 m	-	-	4.3
2848.6 m	-	-	5.1
2863.1 m	39	45	6.6
6407/7-1 DST#3	68	62	10.5
6407/7-2	64	64	9.1

Table 2: Biomarker ratios of extracts from well 6407/10-1 and Njord oils.

U-541

3/

GEOCHEMICAL REPORT

NORSK HYDRO

NORWAY

6407/10-1

BA-87-1109-1

18 AUG. 1987

**REGISTRERT**

OLJEDIREKTORATET

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## INTRODUCTION

Geochemical Screening using the Oil Shows Analyser was performed on 151 cuttings samples, 115 core samples and 50 sidewall core samples. The material was received as wet washed cuttings or core chips and analysed as an air dried ground powder. Two and three metre composite samples were received with the argillaceous material being picked for crushing and subsequent analysis. Core samples were generally taken at one meter intervals. Sands and sandstones were analysed to determine free hydrocarbon content.

## **SAMPLE PREPARATION**

Small samples of ditch cuttings are taken and thoroughly washed in cold water through a 2.36mm sieve and collected in a 180 micron sieve to remove cavings. Any large quantities of contaminants such as lost circulation material are removed at this stage. The washed material is then examined under a binocular microscope and any further contaminants removed. The samples are then air dried at room temperature to prevent the loss of 'free hydrocarbons' and then ground to a homogenous powder in preparation for pyrolysis.

## **SAMPLE CONTAMINATION**

The effects of contamination, if unrecognized, can lead to misleading geochemical data. The major contaminants usually encountered at the wellsite include paint chips, lost circulation material (mica, nuthulls, etc.), steel fragments, and pipe dope. In the 6407/10-1 well contaminants were removed by picking at the wellsite from the pre-dried sample.

Organic mud additives, especially those used for water loss control, can also cause serious contamination problems.

Another source of contamination to be aware of is caused by migrated hydrocarbons. The presence of migrated oil or bitumen in a rock can give a major response in the vicinity of 300 degrees centigrade on the pyrogram (S1) while solid bitumen and the 'heavy end' fraction of petroleum has been found to produce a measurable response in the region 300-550 degrees centigrade. This is the same temperature range in which kerogen is cracked releasing hydrocarbons during pyrolysis. Thus large quantities of bitumen or migrated petroleum in rocks can affect the size and maximum temperature (Tmax) of the (S2) peak and cause non-source rocks to be falsely identified as source rocks as reported by Clementz (1979)\*.

The problems encountered as a result of hydrocarbon contamination may be overcome by solvent extraction using a 50:50 solution of trichloroethane and acetone. As a guideline, samples with high S1 values (greater than 1.0 mgHC/g rock) are solvent extracted and reanalysed to obtain more valid values for S2 and Tmax. The S1 value obtained in the first analysis remains a useful indicator of oil accumulations, and degree of contamination. No samples were solvent extracted for 6407/10-1.

\* Clementz, D. 1979, 'Effect of Oil and Bitumen Saturation on Source Rock Pyrolysis', A.A.P.G. Bull., Vol 62 (12).

## DESCRIPTION OF ANALYTICAL EQUIPMENT

### Principle of Operation

Small quantities of sample (approx. 100 mg) are analysed by programmed pyrolysis in an inert Helium atmosphere. Any evolved hydrocarbons are detected by a Flame Ionisation Detector. The output from this sensor provides the peak data for the S0, S1 and S2 indices. In addition, the temperature, T<sub>max</sub>, for maximum generation of cracked hydrocarbons is measured by a probe monitoring oven temperature.

On completion of the pyrolysis cycle the sample is transferred to a second oven. The sample is heated in air and any carbonaceous material remaining is converted to carbon dioxide, this is detected by a thermal conductivity detector (TCD), the output of which is the S4 peak. The Oil Shows Analyser thus derives the Total Organic Carbon content from the sum of the pyrolysed carbon (S0+S1+S2) and the residual carbon (S4).

The Oil Shows Analyser used the following analytical cycle:-

#### Pyrolysis:

Carrier gas : Helium  
Initial Isotherm : 90 deg. C  
Isothermal Hold : 2 minutes  
Second Isotherm : 300 Deg. C  
Isothermal Hold : 2 minutes  
Temperature Ramp : 30 deg/min  
Final Temperature : 600 deg. C

#### Oxidation:

Oxidation Gas : Air (after removal of CO<sub>2</sub>)  
Oven Temperature : 600 deg. C  
Oxidation Time : 5 minutes

The equipment was calibrated using a standard supplied by Exploration Logging Overseas, Inc. A quality control sample was run routinely every ten unknown samples, or every 24 hours if less than ten samples were analysed during this period.

## PRESENTATION OF RESULTS

The processed data is expressed in terms of:-

- S0 : Low temperature gas yield (mgHC/g rock)
- S1 : Low temperature oil yield (mgHC/g rock).
- S2 : High temperature hydrocarbon yield (mgHC/g rock).
- Tmax : Temperature at which maximum emission of hydrocarbons occurs.
- T.O.C. : Total Organic Carbon (weight percent of whole rock) comprised of S4 (residual organic carbon) plus 82% of the quantity S0+S1+S2.
- T.P.I. : Total Production Index  $(S0+S1/S0+S1+S2)$ .
- H.I. : Hydrogen Index  $(S2/TOC)$ .

**APPENDIX B**

**TABULATION OF ANALYTICAL DATA**



EXPLORATION LOGGING GEOCHEMICAL DATA PRINT

FOR : NORSK HYDRO A/S  
 WELL : 6407/10-1

Printed at : 12:19  
 : 30 Jun 1987  
 Format : 5

2557.0 m TO 2730.0 m

LITHOLOGY	DEPTH m	SOURCE BED EVALUATION				FREE HYDROCARBS		
		TOC %wt	S2 mg/g	TMAX degC	S2/TOC HI	S0 mg/g	S1 mg/g	TPI
Cutttings Samples								
-----:::	2557.00	1.15	1.08	433	94	0.00	.13	.11
-----:::	2560.00	1.42	.72	432	51	0.00	.16	.18
-----:::	2562.00	.88	.47	431	53	0.00	.10	.18
-----:	2565.00	.75	.33	431	44	0.00	.08	.20
-----	2567.00	.71	.30	431	42	0.00	.08	.21
LLL-----	2570.00	.32	.19	426	59	0.00	.06	.24
L-----	2572.00	.68	.38	439	56	0.00	.07	.16
LL-----	2575.00	2.76	6.32	430	229	0.00	.36	.05
LL-----	2577.00	3.84	11.35	425	296	0.00	.69	.06
L--:::~:::	2580.00	3.46	10.20	427	295	0.00	.60	.06
:::~:::~:::	2585.00	1.71	2.42	426	142	0.00	.19	.07
,,~,~:::~:::	2657.00	2.50	3.57	430	143	0.00	.29	.08
,,~,~:::~:::	2660.00	2.18	2.57	430	118	0.00	.32	.11
,,~,~:::~:::	2662.00	2.54	3.07	431	121	0.00	.36	.10
,,~,~:::~:::	2665.00	2.33	2.64	431	113	0.00	.38	.13
,,~,~:::~:::	2667.00	2.60	3.16	432	122	0.00	.39	.11
,,~,~:::~:::	2670.00	2.30	2.71	431	118	0.00	.28	.09
,,~,~:::~:::	2672.00	1.89	1.98	431	105	0.00	.26	.12
,,~,~:::~:::	2675.00	2.64	3.17	429	120	0.00	.37	.10
,,~,~:::~:::	2677.00	3.11	3.77	430	121	0.00	.42	.10
,,~,~:::~:::	2680.00	2.53	2.98	431	118	0.00	.34	.10
-----	2682.00	1.84	2.12	431	115	0.00	.25	.11
--,,~,~:::~:::	2685.00	2.99	3.10	431	104	0.00	.41	.12
-,~:::~:::~:::	2687.00	2.03	2.59	431	128	0.00	.39	.13
--,,~,~:::~:::	2690.00	2.30	2.75	430	120	0.00	.34	.11
--,,~,~:::~:::	2692.00	2.55	3.85	428	151	0.00	.37	.09
-----,,~:	2695.00	1.82	2.71	432	149	0.00	.28	.09
-----,,~:	2697.00	3.50	5.15	427	147	0.00	2.74	.35
-----,,~:	2700.00	2.82	3.87	431	137	0.00	.58	.13
-----,,~:	2702.00	2.21	3.05	431	138	0.00	.38	.11
----,,~,~:::~:::	2705.00	2.20	3.42	431	155	0.00	.41	.11
-----,,~:	2707.00	2.20	2.60	431	118	0.00	.30	.10
-----,,~:	2710.00	2.13	2.54	430	119	0.00	.33	.11
LLLLLL----:	2712.00	1.80	1.55	431	86	0.00	.24	.13
LLLLLL----:	2715.00	1.40	1.83	430	131	0.00	.24	.12
LLLLLL----:	2717.00	1.72	2.29	429	133	0.00	.25	.10
LL-----:	2720.00	1.63	2.32	430	142	0.00	.34	.13
-----:	2722.00	1.19	1.52	431	128	0.00	.20	.12
L-----:	2725.00	1.34	1.77	431	132	0.00	.20	.10
L-----:	2727.00	1.27	2.02	429	159	0.00	.33	.14
L-----:	2730.00	1.39	1.86	432	134	0.00	.19	.09



EXPLORATION LOGGING GEOCHEMICAL DATA PRINT

FOR : NORSK HYDRO A/S  
 WELL : 6407/10-1

Printed at : 12:23  
 : 30 Jun 1987  
 Format : 5

2732.0 m TO 2970.0 m

LITHOLOGY	DEPTH m	SOURCE BED EVALUATION				FREE HYDROCARBS		
		TOC %wt	S2 mg/g	TMAX degC	S2/TOC HI	S0 mg/g	S1 mg/g	TPI
Cuttings Samples								
-----::	2732.00	1.41	1.35	432	96	0.00	.35	.21
-----:	2735.00	1.48	1.01	430	68	0.00	.23	.19
-----	2737.00	2.23	1.31	433	59	0.00	.22	.14
-----::	2740.00	2.30	1.75	433	76	0.00	.30	.15
-----:::	2742.00	1.81	1.26	432	70	0.00	.19	.13
-----:::	2745.00	2.22	1.12	430	50	0.00	.27	.19
-----:	2747.00	1.75	1.16	433	66	0.00	.25	.18
-----:	2750.00	2.05	1.21	432	59	0.00	.28	.19
-----:	2752.00	2.04	1.97	431	97	0.00	.59	.23
L-----	2755.00	1.17	1.01	431	86	0.00	.14	.12
L-----	2757.00	2.29	1.72	432	75	0.00	.27	.14
LLL-----	2760.00	2.18	1.46	433	67	0.00	.25	.15
LLL-----	2762.00	1.97	1.54	432	78	0.00	.21	.12
LL-----	2765.00	2.21	1.51	429	68	0.00	.41	.21
L-----	2767.00	1.79	1.14	433	64	0.00	.18	.14
L-----	2770.00	1.78	1.53	428	86	0.00	.50	.25
L-----	2775.00	1.62	1.84	426	114	0.00	1.48	.45
-----	2780.00	1.83	1.80	422	98	0.00	1.10	.38
-----	2785.00	1.64	1.09	432	66	0.00	.42	.28
-----	2790.00	1.58	.76	430	48	0.00	.37	.33
-----	2795.00	1.55	.77	429	50	0.00	.32	.29
-----	2800.00	1.48	.87	432	59	0.00	.33	.28
=====	2805.00	27.97	95.72	430	342	0.00	23.04	.19
====:::	2810.00	30.46	75.66	428	248	0.00	16.83	.18
:::~:::	2815.00	5.48	4.82	437	88	0.00	1.07	.18
---:::	2875.00	.84	1.13	429	135	0.00	.83	.42
:::~:::	2895.00	.90	1.08	427	120	0.00	.59	.35
:::~:::	2905.00	1.07	1.69	438	158	0.00	.33	.16
:::~:::	2910.00	.81	.46	432	57	0.00	.20	.30
-,:::	2915.00	1.73	2.29	432	132	0.00	.36	.14
-:::	2920.00	1.41	4.49	434	318	0.00	.39	.08
---:::	2925.00	1.67	4.58	435	274	0.00	.71	.13
-----:	2930.00	1.50	3.31	436	221	0.00	.33	.09
-----:	2935.00	.89	1.69	435	190	0.00	.26	.13
L-----:	2940.00	1.12	2.94	436	262	0.00	.31	.10
-----	2945.00	.91	2.53	437	278	0.00	.29	.10
-----	2950.00	1.13	2.74	436	242	0.00	.41	.13
-----:	2955.00	.94	3.48	436	370	0.00	.35	.09
-----	2960.00	1.07	3.58	437	335	0.00	.39	.10
-----	2965.00	1.05	4.00	435	381	0.00	.44	.10
-----	2970.00	1.73	8.93	432	516	.06	.89	.10





EXPLORATION LOGGING GEOCHEMICAL DATA PRINT

FOR : NORSK HYDRO A/S  
 WELL : 6407/10-1

Printed at : 12:28  
 : 30 Jun 1987  
 Format : 5

2975.0 m TO 3152.0 m

LITHOLOGY	DEPTH m	SOURCE BED EVALUATION				FREE HYDROCARBS		
		TOC %wt	S2 mg/g	TMAX degC	S2/TOC HI	S0 mg/g	S1 mg/g	TPI
Cuttings Samples								
-----: : : : : :	2975.00	2.61	11.61	433	445	.09	1.17	.10
-----: : : : : :	3015.00	2.00	2.03	433	102	0.00	.50	.20
L____: : : : : :	3017.00	1.61	2.33	434	145	0.00	.58	.20
-----: : : : : :	3020.00	1.39	2.40	433	173	0.00	.67	.22
L____: : : : : :	3025.00	1.41	2.15	434	152	0.00	.39	.15
: : : : : : : : : :	3030.00	1.63	2.41	434	148	0.00	.54	.18
-----: : : : : :	3032.00	1.15	1.16	429	101	0.00	.77	.40
-----: : : : : :	3035.00	1.16	1.40	430	121	0.00	.80	.36
L____: : : : : :	3037.00	1.24	1.53	435	123	0.00	.22	.13
-----: : : : : :	3040.00	1.19	1.66	436	139	0.00	.18	.10
-----: : : : : :	3042.00	.25	.24	432	96	0.00	.10	.29
-----: : : : : :	3045.00	1.00	1.18	432	118	0.00	.30	.20
-----: : : : : :	3052.00	1.95	2.42	436	124	0.00	.41	.14
-----: : : : : :	3055.00	1.02	1.43	435	140	0.00	.26	.15
-----: : : : : :	3062.00	1.56	1.15	430	74	0.00	.24	.17
-----: : : : : :	3065.00	1.06	1.50	436	142	0.00	.43	.22
-----: : : : : :	3067.00	1.21	1.41	435	117	0.00	.33	.19
-----: : : : : :	3070.00	1.06	.64	434	60	0.00	.17	.21
-----: : : : : :	3072.00	.46	.29	435	63	0.00	.10	.26
-----: : : : : :	3075.00	1.54	1.64	428	106	0.00	.36	.18
-----: : : : : :	3077.00	1.30	1.26	433	97	0.00	.32	.20
-----: : : : : :	3080.00	1.04	1.46	437	140	0.00	.33	.18
-----: : : : : :	3082.00	.99	1.48	435	149	0.00	.63	.30
***____: : : : : :	3085.00	7.57	13.09	429	173	.01	1.57	.11
*____: : : : : :	3087.00	1.94	1.78	429	92	0.00	.33	.16
-----: : : : : :	3090.00	1.11	1.09	432	98	0.00	.29	.21
*____: : : : : :	3095.00	2.44	3.81	434	156	0.00	.44	.10
-----: : : : : :	3097.00	1.07	1.07	429	100	0.00	.22	.17
-----: : : : : :	3100.00	1.81	1.78	432	98	0.00	.40	.18
-----: : : : : :	3102.00	1.23	1.21	432	98	0.00	.27	.18
: : : : : : : : : :	3110.00	0.00	0.00	0	0	0.00	0.00	0.00
-----: : : : : :	3125.00	1.41	1.96	429	139	0.00	.71	.27
-----: : : : : :	3127.00	.61	.77	429	126	0.00	.24	.24
*____: : : : : :	3130.00	.61	.66	427	108	0.00	.27	.29
*____: : : : : :	3132.00	.71	.72	434	101	.01	.25	.27
-----: : : : : :	3135.00	1.48	1.34	432	91	0.00	.44	.25
-----: : : : : :	3140.00	2.75	4.84	431	176	0.00	.52	.10
*____: : : : : :	3145.00	3.67	5.32	433	145	0.00	.56	.10
*____: : : : : :	3147.00	.31	.20	435	65	0.00	.10	.33
-----: : : : : :	3150.00	5.51	3.59	431	65	0.00	.73	.17
-----: : : : : :	3152.00	1.56	1.03	434	66	0.00	.23	.18



EXPLORATION LOGGING GEOCHEMICAL DATA PRINT

FOR : NORSK HYDRO A/S  
 WELL : 6407/10-1

Printed at : 12:32  
 : 30 Jun 1987  
 Format : 5

3155.0 m TO 3335.0 m

LITHOLOGY	DEPTH m	SOURCE BED EVALUATION				FREE HYDROCARBS		
		TOC %wt	S2 mg/g	TMAX degC	S2/TOC HI	S0 mg/g	S1 mg/g	TPI
Cuttings Samples								
_____	3155.00	3.00	2.65	434	88	0.00	.31	.10
**_____	3157.00	13.07	46.86	434	359	.01	3.86	.08
*_____	3160.00	6.85	5.30	434	77	0.00	.48	.08
*_____	3162.00	5.29	4.44	434	84	0.00	.42	.09
*_____	3165.00	3.27	2.32	435	71	0.00	.28	.11
***_____	3167.00	2.40	1.93	432	80	0.00	.25	.11
*_____	3170.00	3.24	2.57	433	79	0.00	.26	.09
*_____	3172.00	13.09	29.52	435	226	.06	1.49	.05
_____	3185.00	22.81	68.85	436	302	.13	3.71	.05
*_____	3190.00	4.00	3.19	434	80	0.00	.50	.14
**_____	3192.00	2.65	3.42	431	129	0.00	.35	.09
**_____	3195.00	2.32	2.32	434	100	0.00	.35	.13
*_____	3197.00	.57	.61	433	107	0.00	.17	.22
**_____	3200.00	1.04	.52	437	50	0.00	.16	.24
**_____	3202.00	2.21	2.30	432	104	0.00	.38	.14
*_____	3205.00	13.50	22.66	434	168	.04	1.29	.06
_____	3207.00	2.03	2.26	432	111	0.00	.34	.13
_____	3210.00	4.81	2.99	438	62	0.00	.38	.11
_____	3212.00	1.64	1.14	434	70	0.00	.26	.19
_____	3240.00	.37	.28	432	76	0.00	.11	.28
_____	3242.00	.73	.57	430	78	0.00	.29	.34
_____	3262.00	.39	.15	0	38	0.00	.24	.62
_____	3275.00	2.74	4.62	433	169	0.00	.58	.11
_____	3280.00	1.41	1.60	433	113	0.00	.46	.22
*_____	3315.00	13.48	34.31	432	255	.01	2.01	.06
_____	3322.00	4.00	2.57	434	64	0.00	.79	.24
_____	3335.00	5.55	5.21	437	94	.05	.51	.10



EXPLORATION LOGGING GEOCHEMICAL DATA PRINT

FOR : NORSK HYDRO A/S  
 WELL : 6407/10-1

Printed at : 12:40  
 : 30 Jun 1987  
 Format : 5

2748.0 m TO 2829.0 m

LITHOLOGY	DEPTH m	SOURCE BED EVALUATION				FREE HYDROCARBS		
		TOC %wt	S2 mg/g	TMAX degC	S2/TOC HI	S0 mg/g	S1 mg/g	TPI
Core Samples								
,,,,,,,,,,	2748.00	.94	.86	433	91	0.00	.23	.21
,,,,,,,,,,	2749.00	2.30	1.79	433	78	0.00	.20	.10
,,,,,,,,,,	2750.00	1.09	.79	433	72	0.00	.08	.09
,,,,,,,,,,	2751.00	2.21	2.09	434	95	0.00	.17	.08
,,,,,,,,,,	2752.00	2.52	3.79	434	150	0.00	.22	.05
-----	2753.00	1.77	1.31	435	74	0.00	.13	.09
,,,,,,,,,,	2754.00	.85	.72	436	85	0.00	.07	.09
,,,,,,,,,,	2755.00	.94	.66	431	70	0.00	.08	.11
,,,,,,,,,,	2756.00	.67	.52	424	78	0.00	.08	.13
,,,,,,,,,,	2757.00	.60	.43	429	72	0.00	.09	.17
,,,,,,,,,,	2758.00	.82	.43	429	52	0.00	.05	.10
,,,,,,,,,,	2759.00	.72	1.48	0	206	0.00	.07	.05
,,,,,,,,,,	2760.00	.60	.30	433	50	0.00	.03	.09
,,,,,,,,,,	2761.00	.86	.49	434	57	0.00	.05	.09
,,,,,,,,,,	2762.00	.99	.69	436	70	0.00	.05	.07
,,,,,,,,,,	2763.00	.69	.48	423	70	0.00	.05	.09
,,,,,,,,,,	2764.00	1.51	4.95	0	328	0.00	.19	.04
,,,,,,,,,,	2765.00	.80	.69	422	86	0.00	.09	.12
,,,,,,,,,,	2766.00	1.01	.61	438	60	0.00	.08	.12
,,,,,,,,,,	2767.00	1.12	1.86	0	166	0.00	.61	.25
,,,,,,,,,,	2768.00	.69	.55	432	80	0.00	.13	.19
,,,,,,,,,,	2769.00	.58	.39	435	67	0.00	.07	.15
,,,,,,,,,,	2771.00	.83	.58	433	70	0.00	.08	.12
,,,,,,,,,,	2772.00	.69	.38	436	55	0.00	.05	.12
,,,,,,,,,,	2773.00	.78	1.00	0	128	0.00	.11	.10
,,,,,,,,,,	2774.00	.58	.40	433	69	0.00	.06	.13
,,,,,,,,,,	2775.00	.70	.67	434	96	0.00	.15	.18
,,,,,,,,,,	2776.00	.83	.56	435	67	0.00	.09	.14
:::::::::::	2817.00	0.00	.25	516	0	0.00	.10	.29
:::::::::::	2818.00	.85	.82	435	96	0.00	.27	.25
:::::::::::	2819.00	.82	.78	435	95	0.00	.26	.25
:::::::::::	2820.00	.36	.71	0	197	0.00	.29	.29
:::::::::::	2821.00	0.00	.36	426	0	0.00	.19	.35
:::::::::::	2822.00	.72	1.09	431	151	0.00	.29	.21
:::::::::::	2823.00	0.00	.52	0	0	0.00	.30	.37
:::::::::::	2824.00	.37	.65	419	176	0.00	.27	.29
:::::::::::	2825.00	.34	.45	434	132	0.00	.21	.32
-----	2826.00	.46	1.59	0	346	0.00	.32	.17
:::::::::::	2827.00	15.07	31.57	425	209	.30	8.62	.22
:::::::::::	2828.00	3.61	4.37	0	121	.27	.99	.22
:::::::::::	2829.00	0.00	.35	0	0	0.00	.27	.44



EXPLORATION LOGGING GEOCHEMICAL DATA PRINT

FOR : NORSK HYDRO A/S  
 WELL : 6407/10-1

Printed at : 12:44  
 : 30 Jun 1987  
 Format : 5

2830.0 m TO 2869.0 m

LITHOLOGY	DEPTH m	SOURCE BED EVALUATION				FREE HYDROCARBS		
		TOC %wt	S2 mg/g	TMAX degC	S2/TOC HI	S0 mg/g	S1 mg/g	TPI
Core Samples								
.....	2830.00	0.00	.45	426	0	0.00	.30	.40
.....	2831.00	.26	.39	428	150	0.00	.21	.35
.....	2832.00	.53	1.13	414	213	0.00	.39	.26
.....	2833.00	.47	.63	433	134	0.00	.15	.19
.....	2834.00	.29	.70	0	241	0.00	.25	.26
.....	2835.40	0.00	.19	0	0	0.00	.35	.65
.....	2836.00	.88	.69	438	78	0.00	.25	.27
.....	2837.00	.32	1.00	0	313	0.00	.30	.23
.....	2838.00	1.72	1.86	0	108	0.00	.51	.22
.....	2839.00	2.50	4.20	432	168	0.00	.81	.16
.....	2840.00	2.37	2.71	433	114	0.00	.81	.23
.....	2841.00	.45	1.56	0	347	0.00	.62	.28
.....	2842.00	.32	.76	0	238	0.00	.10	.12
.....	2843.00	3.24	4.90	433	151	0.00	.54	.10
.....	2844.00	2.54	4.36	431	172	0.00	.56	.11
.....	2845.00	.39	.33	435	85	0.00	.08	.20
.....	2845.10	0.00	.13	0	0	0.00	.07	.35
.....	2846.00	0.00	.33	432	0	0.00	.06	.15
.....	2847.00	.58	1.61	0	278	0.00	.16	.09
.....	2848.00	4.64	6.76	434	146	0.00	.91	.12
.....	2849.00	.72	.50	442	69	0.00	.10	.17
.....	2850.00	0.00	.11	428	0	0.00	.03	.21
.....	2851.00	0.00	.08	0	0	0.00	.02	.20
.....	2852.00	.73	.98	435	134	0.00	.15	.13
.....	2853.00	1.35	2.06	435	153	0.00	.27	.12
.....	2854.00	0.00	.25	0	0	0.00	.06	.19
.....	2855.00	0.00	.52	0	0	0.00	.07	.12
.....	2856.00	0.00	.26	0	0	0.00	.03	.10
.....	2857.00	.80	.86	435	107	0.00	.18	.17
.....	2858.00	0.00	.11	0	0	0.00	.02	.15
.....	2859.00	0.00	.06	428	0	0.00	.01	.14
.....	2860.00	0.00	.03	460	0	0.00	0.00	0.00
.....	2861.00	0.00	.16	0	0	0.00	0.00	0.00
.....	2862.00	0.00	.35	432	0	0.00	.06	.15
.....	2863.00	.69	.85	430	123	0.00	.24	.22
.....	2864.00	0.00	.06	422	0	0.00	.01	.14
.....	2865.00	.76	.80	433	105	0.00	.12	.13
.....	2866.00	.41	2.36	0	576	0.00	.16	.06
.....	2867.00	0.00	.36	0	0	0.00	.06	.14
.....	2868.00	.39	.42	435	108	0.00	.08	.16
.....	2869.00	2.06	3.14	430	152	0.00	.39	.11



EXPLORATION LOGGING GEOCHEMICAL DATA PRINT

FOR : NORSK HYDRO A/S  
 WELL : 6407/10-1

Printed at : 12:52  
 : 30 Jun 1987  
 Format : 5

2870.0 m TO 3011.0 m

LITHOLOGY	DEPTH m	SOURCE BED EVALUATION				FREE HYDROCARBS		
		TOC %wt	S2 mg/g	TMAX degC	S2/TOC HI	S0 mg/g	S1 mg/g	TPI
Core Samples								
.....	2870.00	.29	.66	0	228	0.00	.13	.16
.....	2871.00	1.29	1.35	432	105	0.00	.31	.19
.....	2872.00	.80	.79	434	99	0.00	.13	.14
.....	2873.00	.95	1.17	436	123	0.00	.16	.12
.....	2984.00	0.00	.09	436	0	0.00	.03	.25
.....	2985.00	0.00	.18	416	0	0.00	.14	.44
.....	2986.00	1.16	2.50	439	216	0.00	.31	.11
.....	2987.00	0.00	.02	425	0	0.00	.01	.33
.....	2988.00	0.00	.04	402	0	0.00	.03	.43
.....	2989.00	0.00	.03	0	0	0.00	.01	.25
.....	2990.00	.48	.92	435	192	0.00	.15	.14
.....	2991.00	0.00	.21	0	0	0.00	.03	.13
.....	2992.00	1.40	2.48	438	177	0.00	.28	.10
.....	2993.00	.48	.74	436	154	0.00	.09	.11
.....	2994.00	.64	1.15	438	180	0.00	.21	.15
.....	2995.00	.79	1.79	437	227	0.00	.24	.12
.....	2996.00	.35	.60	435	171	0.00	.19	.24
.....	2997.00	.67	1.46	435	218	0.00	.20	.12
.....	2998.00	1.57	3.98	439	254	0.00	.40	.09
.....	2999.00	1.50	2.43	432	162	0.00	.42	.15
.....	3000.00	1.23	2.80	437	228	0.00	.24	.08
.....	3001.00	0.00	.12	406	0	0.00	.04	.25
.....	3002.00	0.00	.05	428	0	0.00	.04	.44
.....	3003.00	.26	.38	439	146	0.00	.07	.16
.....	3004.00	0.00	.11	0	0	0.00	.04	.27
.....	3005.00	.53	.79	435	149	0.00	.16	.17
.....	3006.00	0.00	.12	0	0	0.00	.09	.43
.....	3007.00	1.80	3.50	436	194	0.00	.36	.09
.....	3008.00	0.00	.20	437	0	0.00	.03	.13
.....	3009.00	1.30	2.19	439	168	.01	.23	.10
.....	3010.00	1.34	2.86	437	213	0.00	.23	.07
.....	3011.00	1.59	3.89	438	245	.01	.31	.08



EXPLORATION LOGGING GEOCHEMICAL DATA PRINT

FOR : NORSK HYDRO A/S  
 WELL : 6407/10-1

Printed at : 12:56  
 : 30 Jun 1987  
 Format : 5

2530.0 m TO 3110.0 m

LITHOLOGY	DEPTH m	SOURCE BED EVALUATION				FREE HYDROCARBS		
		TOC %wt	S2 mg/g	TMAX degC	S2/TOC HI	S0 mg/g	S1 mg/g	TPI
Sidewall Core Samples								
_____ ;;;;	2530.00	0.00	.39	0	0	0.00	.26	.40
_____	2550.00	.48	.29	0	60	0.00	.03	.09
_____ ;;;;	2555.00	0.00	.05	0	0	0.00	0.00	0.00
_____	2559.00	0.00	.07	0	0	0.00	0.00	0.00
_____	2565.00	0.00	.01	0	0	0.00	0.00	0.00
_____	2570.00	0.00	.01	0	0	0.00	0.00	0.00
_____	2574.00	6.01	31.61	416	526	0.00	2.52	.07
_____	2575.00	5.79	30.13	419	520	0.00	1.89	.06
::::::::::::	2578.00	0.00	.01	0	0	0.00	.04	.80
::::::::::::	2610.00	0.00	.07	0	0	0.00	.03	.30
::::::::::::	2617.50	0.00	.05	0	0	0.00	.01	.17
::::::::::::	2620.00	0.00	.07	0	0	0.00	.02	.22
::::::::::::	2625.00	0.00	.26	458	0	0.00	.07	.21
::::::::::::	2631.00	0.00	.07	0	0	0.00	.08	.53
;;;;;;;;;::::	2653.00	.54	.71	429	131	0.00	.10	.12
;;;;;;;;;::::	2660.00	1.18	1.81	431	153	0.00	.22	.11
;;;;;;;;;::::	2665.00	.69	.91	429	132	0.00	.10	.10
;;;;;;;;;::::	2675.00	1.57	2.21	429	141	0.00	.26	.11
;;;;;;;;;::::	2685.00	1.38	1.32	431	96	0.00	.26	.16
;;;;;;;;;::::	2694.00	3.55	5.66	426	159	0.00	.58	.09
;;;;;;;;;::::	2715.00	.50	.59	422	118	0.00	.09	.13
_____	2735.00	1.58	1.41	426	89	0.00	.28	.17
::::::::::::	2744.00	.45	.19	437	42	0.00	.05	.21
::::::::::::	2746.00	.46	.30	433	65	0.00	.11	.27
=====	2790.00	.66	.92	429	139	0.00	.12	.12
=====	2793.00	1.34	1.32	432	99	0.00	.24	.15
*****	2803.50	18.99	135.87	429	715	.20	20.89	.13
::::::::::::	2807.00	0.00	.21	0	0	0.00	.78	.79
::::::::::::	2886.00	.37	.74	433	200	0.00	.09	.11
::::::::::::	2891.00	.36	.30	429	83	0.00	.07	.19
;;;;;;;;;::::	2898.50	.57	1.18	435	207	0.00	.20	.14
=====	2912.00	1.11	3.21	434	289	0.00	.35	.10
_____	2926.00	1.20	4.09	436	341	0.00	.38	.09
;;;;;;;;;::::	2945.00	.50	1.49	436	298	0.00	.23	.13
_____	2970.00	.82	2.11	437	257	0.00	.25	.11
::::::::::::	2977.00	0.00	.25	0	0	0.00	.11	.31
::::::::::::	3050.00	0.00	.41	0	0	0.00	.09	.18
=====	3061.50	1.53	5.11	437	334	0.00	.56	.10
::::::::::::	3083.00	0.00	.18	0	0	0.00	0.00	0.00
::::::::::::	3094.00	0.00	.50	0	0	0.00	.03	.06
::::::::::::	3110.00	0.00	.32	0	0	0.00	.13	.29



EXPLORATION LOGGING GEOCHEMICAL DATA PRINT

FOR : NORSK HYDRO A/S  
WELL : 6407/10-1

Printed at : 13:00  
: 30 Jun 1987  
Format : 5

3126.0 m TO 3320.0 m

LITHOLOGY	DEPTH m	SOURCE BED EVALUATION				FREE HYDROCARBS		
		TOC %wt	S2 mg/g	TMAX degC	S2/TOC HI	S0 mg/g	S1 mg/g	TPI
-----								
Sidewall Core Samples								
.....	3126.00	0.00	0.00	0	0	0.00	.04	1.00
.....	3128.50	.55	.71	439	129	0.00	.15	.17
.....	3183.00	0.00	.28	472	0	0.00	.01	.03
=====	3202.50	.29	.26	438	90	0.00	.02	.07
=====	3242.50	0.00	.05	0	0	0.00	0.00	0.00
-----	3320.00	.72	.72	471	100	0.00	.07	.09
-----								



EXPLORATION LOGGING GEOCHEMICAL DATA PRINT

FOR :  
WELL : NORSK HYDRO 6407/10-1

Printed at : 12:22  
: 3 Jul 1987  
Format : 4

2567.0 m TO 3322.5 m

DEPTH m	SOURCE BED EVALUATION						FREE HYDROCARBS		
	TOC %wt	PC	S2 mg/g	TMAX degC	S2/TOC HI	S3/TOC OI	S0 mg/g	S1 mg/g	TPI mg/g
Cuttings Samples									
2567.00	.79	.07	.54	417	69	150	0.00	.25	.32
2662.00	0.00	.28	2.86	429	0	0	0.00	.49	.15
2685.00	2.25	.17	1.69	438	75	21	0.00	.41	.20
2710.00	0.00	.24	2.35	429	0	0	0.00	.56	.19
2735.00	0.00	.11	.83	432	0	0	0.00	.44	.35
2935.00	1.14	.03	.16	440	14	21	0.00	.15	.48
3025.00	0.00	.22	2.01	433	0	0	0.00	.59	.23
3052.00	0.00	.28	2.63	433	0	0	0.00	.70	.21
3085.00	0.00	1.24	13.15	430	0	0	0.00	1.83	.12
3135.00	0.00	.17	1.32	430	0	0	0.00	.68	.34
3165.00	0.00	.12	1.14	440	0	0	0.00	.36	.24
3205.00	0.00	2.18	24.30	434	0	0	0.00	1.92	.07
3322.00	0.00	.20	1.73	435	0	0	0.00	.66	.28
Core Samples									
2749.00	2.53	.16	1.43	419	57	15	0.00	.44	.24
2756.00	.79	.06	.54	428	68	20	0.00	.23	.30
2766.00	0.00	.10	.82	432	0	0	0.00	.35	.30
2776.00	0.00	.08	.64	431	0	0	0.00	.33	.34
2820.00	.34	.05	.50	550	147	0	0.00	.16	.24
2830.00	.32	.06	.53	514	166	0	0.00	.20	.27
2841.00	.42	.08	.76	0	181	0	0.00	.25	.25
2852.00	1.07	.10	.89	434	83	0	0.00	.33	.27
2862.00	.32	.05	.46	482	144	0	0.00	.15	.25
2872.00	.76	.09	.85	432	112	0	0.00	.27	.24
2985.00	.28	.08	.92	558	329	0	0.00	.10	.10
2995.00	0.00	.16	1.58	434	0	0	0.00	.31	.16
3005.00	0.00	.11	1.10	434	0	0	0.00	.20	.15
Sidewall Core Samples									
2574.00	7.05	2.53	28.79	417	408	9	0.00	1.73	.06
2660.00	1.38	.18	1.81	431	131	35	0.00	.36	.17
2744.00	.56	.03	.29	438	52	23	0.00	.12	.29
3050.00	.26	.05	.46	546	178	290	0.00	.16	.26
3202.50	.41	.05	.53	445	128	5	0.00	.13	.20

Windsor Laboratory sample checks.