

COMMENTS ABOUT MUD AND CEMENT

36 " PHASE :

Drilling with sea water, pump high viscosity Bentonitic pills on each connection.

Set the 30" casing at 197 m.

Cementing with 39 m³ of neat slurry SG = 1,90 .

26 " PHASE :

Drilling with riser the pilot hole 17"1/2 to 1215 m with a Bentonitic Mud.Hole opening to 26 " with the same mud.

Reaming tight hole from 848 m to 1220m,pump high viscosity bentonitic pills on each connection.

Fill up the well with high viscosity mud prior tripping and running the casing .

Set the 20 " casing at 1207 m.

Cementing with two slurries :

210 m³ Lead slurry SG = 1,44

76 m³ NEAt SG = 1,90

17 "1/2 PHASE :

Drilling with KCL/Polymer mud SG = 1,25 at the beginning increasing to SG = 1,38 at the end , keeping pace with pore pressure and hole stability.

Some overpull followed by reaming in this section.

Set high viscosity Bentonitic plug in the bottom (100 m) in order to prevent shales falling. During opening in 12 "1/4 hole to 17"1/2 a large cuttings/caving return was experienced .(at 2000/2013 m).

The 17"1/2 phase has to be drilled through the HORDALAND GR shales where serious problems occurred on the previous well . The idea to prevent the bad hole stability was been to use the minimum KCL content ,the simultaneous use of appropriate polymers . The Mud parameters have been improved immediately in reference with the observations done on the previous wells.

- The mud weight has been maintained under 1,40 SG .
- The K C L concentration did not exceed 40 gr/l .
- The A P I filtrate has been reduced under 4 ml .
- The rheology adjusted with P H P A polymer with ratio of YV/VP 1
- M B T under 40 .

Overpull , reaming are always a problem and a large amount of caving was observed during this phase .

In fact , a low K C L concentration with the improved mud parameters are not enough to solve the problem but the wellbore stability was not dramatic to carry on the operations in that case .

Mud characteristics :

SG = 1,38 YP/VP = 28/24 API = 2,5/3 cc.
KCL = 30 to 40 gr/l . MBT = 20 to 35 .

Set 13" 3/8 casing at 2493 m.

The casing was cemented in one stage :

Lead slurry	SG = 1,44 (118 m ³).
Neat	SG = 1,90 (55 m ³) .

Displacement with rigs pumps . The plug was not bumped .

12" 1/4 PHASE .

This hole section was drilled with only minor problems ,using a FCL/ Polymer mud .

The mud weight was gradually increased to 1,43. At 3580 m, the mud weight was increased to 1,56 due to presence of gas .

Cementing :

The 9 "5/8 * 10 3/4 casing was run to 3578 m with no major problems.

The casing was cemented in one stage .The theoretical slurry volume consisted of 35 m³ . But the cement volume really pumped was only 27,4 m³ due to a problem with cement supply .

Displacement with pumps rig and the plug was bumped .

Test casing negative : Leak on connection cement head /XO 10"3/4 * 9"5/8 .

8"3/8 PHASE :

This hole section was drilled and cored with the same mud ,the mud weight was adjusted to 1,76 according with pore pressure programme .
.No major mud problems during this phase . Good stability of mud parameters .

Set the 7" liner at 4021 m.

Cementing with "G + silica" slurry SG = 2,00 .

Displacement with Cement unit .The displacement was stopped before the theoretical volume because the Wiper plug was sheared at 35,6 m³ instead of 31,6 m³. So the plug was not bumped .

During the reverse circulation , no cement was observed at surface.

Test liner at 300 bars .(ok)

5 7/8 PHASE:

Drilled and cored with FCL/BENT.Mud, SG = 1,74/1,76.
No mud problem during this phase .

Well:			Mud		Casing									
Size in.	From m.	To m.	Type	S.G. kg/l	Size in.	W/T lbs/ft	Grade & Thread	From m.	To m.	Top cement	LOT at shoe	Deviation top/btm	Report fm/to	
36	136	197	SW Viscous pills	1.03 1.05	30	309.7	X52 ST2 RB	197	136	136		0.25 2	1 5	
26	197	1220	Bentoni tic mud	1.05 1.09	20"	129.3	X56 RL 4S	1207	136	136	1.75	2 1	6 21	
17"1/2	1220	2503	KCl polymer	1.25 1.38	13"3/8	72	P110 BTC	2493	136	1300	1.84 .	1 2.5	22 44	
12"1/4	2503	3591	ligno sulfonate mud	1.36 1.56	9"5/8 9"5/8 10"3/4	58.4 53.5 65.7	Q125 P110 Q125 VAM	3578 2456 219	2456 219 136	2912	1.98	2.5 6	45 73	
8"3/8	3591	4022	ligno sulfonate mud	1.75	7" Liner	35	P110 VAM	4021	3430	3430	2.15	6 3	74 107	
5"7/8	4022	4170	ligno sulfonate mud	1.75									108 120	

Elf Aquitaine Norge A/S		Printed on : 19/02/92		
elf aquitaine		WELL : 25/4-6S		
RFT REPORT				
Borehole : 25/4-6S		Operation N° : 2		
Well section N° : 1		Run N° : 3		
Table alt : +22.00 m		Operator : Dresser Atlas		
Pretest number : 2		Sampling number : 0		
Test points in well-section No : 1 in Borehole : 25/4-6S				
Pretest				
N°	Depth	Abs altit	Hydro pressure	Final pressure
				Type
	Comments			Quality
1	2205.00 m	-2183.00 m	301.99 bar	199.95 bar
	T=54.24 C. HDe=1.410. FDe=0.934.			Tmp corrected Good
2	2225.00 m	-2203.00 m	304.79 bar	202.00 bar
	T=54.84 C. HDe=1.410. FDe=0.935.			Tmp corrected Good

Table 3.7

Elf Aquitaine Norge A/S

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Printed on : 19/02/92

WELL : 25/4-6S

RFT REPORT

Borehole : 25/4-6S
Well section N° : 1

Operation N° : 4
Run N° : 5

Table alt : +22.00 m

Operator : Dresser Atlas

Pretest number : 14

Sampling number : 0

Test points in well-section No : 1 in Borehole : 25/4-6S
Pretest

N°	Depth	Abs altit	Hydro pressure	Final pressure
	Comments		Type	Quality

1	3736.30 m	-3685.30 m	631.99 bar	611.39 bar
				Tmp corrected Good

2	3745.00 m	-3693.40 m		
	Leak to hydrostatic.			Uncorrected Non stabilized

3	3744.50 m	-3699.30 m		
	Leak to hydrostatic.			Uncorrected Non stabilized

4	3762.00 m	-3732.70 m	635.24 bar	612.96 bar
				Tmp corrected Good

5	3766.50 m	-3737.20 m	635.48 bar	613.11 bar
				Tmp corrected Good

6	3773.50 m	-3744.10 m	636.69 bar	613.41 bar
				Tmp corrected Good

Operation N° : 4

Borehole : 25/4-6S
RFT Report (next 1)

Run N° : 5

7	3782.50 m	-3753.00 m	638.75 bar	613.88 bar
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Tmp corrected
Good

8	3788.00 m	-3758.40 m	639.66 bar	614.19 bar
---	-----------	------------	------------	------------

Tmp corrected
Good

9	3793.00 m	-3763.40 m	640.40 bar	614.32 bar
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Tmp corrected
Good

10	3808.50 m	-3778.70 m	643.25 bar	615.14 bar
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Tmp corrected
Good

11	3816.00 m	-3786.10 m	644.36 bar	615.46 bar
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Tmp corrected
Good

12	3826.50 m	-3796.50 m	647.95 bar	616.15 bar
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Tmp corrected
Good

13	3830.50 m	-3800.50 m	647.94 bar	616.18 bar
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Tmp corrected
Good

14	3836.00 m	-3805.90 m	647.97 bar	617.26 bar
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Tmp corrected
Good

Elf Aquitaine Norge A/S

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WELL : 25/4-6S

RFT REPORT

Borehole : 25/4-6S
Well section N° : 2Operation N° : 6
Run N° : 7

Table alt : +22.00 m

Operator : Dresser Atlas

Pretest number : 10

Sampling number : 1

Test points in well-section No : 2 in Borehole : 25/4-6S
Pretest

N°	Depth	Abs altit	Hydro pressure	Final pressure
	Comments			Type Quality
1	4131.00 m	-4098.20 m	704.05 bar	646.60 bar
	Pretest permeability: 0.38 mD. Probe temp: 127.69 C.			Tmp corrected Good
2	4141.50 m	-4108.60 m	706.04 bar	645.38 bar
	Pretest permeability: 1.01 mD. Probe temp: 128.27 C.			Tmp corrected Good
3	4147.00 m	-4114.10 m	706.96 bar	646.28 bar
	Pretest permeability: 0.76 mD. Probe temp: 129.08 C.			Tmp corrected Good
4	4156.50 m	+4123.50 m	708.49 bar	
	Abandon test.			Tmp corrected Tight
5	4156.00 m	+4123.00 m	708.29 bar	
	Abandon test.			Tmp corrected Tight
6	4156.20 m	-4123.20 m	708.45 bar	650.50 bar
	Pretest permeability: 0.26 mD. Probe temp: 130.39 C.			Tmp corrected Good

Operation N° : 6

Borehole : 25/4-6S
RFT Report (next 1)

Run N° : 7

7 4170.00 m -4138.90 m 711.34 bar 650.64 bar

Correct depth is 4172m. Pretest permeability: 0.54 mD. Probe temp: 131.18 C.

Tmp corrected
Good

8 4141.50 m -4108.60 m 705.96 bar 645.30 bar

Pretest permeability: 4.78 mD. Probe temperature: 130.53 C.

Tmp corrected
Good

9 4131.50 m -4098.70 m 704.21 bar 644.42 bar

Pretest permeability: 16.48 mD. Probe temperature: 130.01 C

Tmp corrected
Good

10 4141.51 m -4108.61 m 705.89 bar 645.29 bar

Tmp corrected
GoodSampling

Final Pressure : 644.99 bar Duration : 6 mn

Mud volume :

N° : 1

Filtrate volume :

Comments : The values refers to Tank U. Tank L: final shut in press:657.81.Fill time: .6min

Shows and fluids

GAS Volume 21.00 l Comments
The value refers to tank U. In tank L:
2.8 l of gas.

.....
WATER Volume : 9.500 l Type : Salt water

Salinity : pH : Density :
Résistivity : .27 ohm.m at temperature : 20 oC

Comments : The values refers to tank U. In tank L:
3.1 l of water. Some may be filtrate.

Elf Aquitaine Norge A/S

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WELL : 25/4-6S

RFT REPORT

Borehole : 25/4-6S
Well section N° : 2Operation N° : 7
Run N° : 1

Table alt : +22.00 m

Operator : Dresser Atlas

Pretest number : 4

Sampling number : 1

Test points in well-section No : 1 in Borehole : 25/4-6S
Pretest

N°	Depth	Abs altit	Hydro pressure	Final pressure
	Comments		Type	Quality

1	3910.00 m	-3879.20 m	670.28 bar	629.69 bar
	Tool plugged, sg only.			Tmp corrected Good

2	3856.50 m	-3826.20 m	661.39 bar	619.79 bar
	Tool plugged, sg only.			Tmp corrected Good

3	3816.00 m	-3786.10 m	654.09 bar	616.50 bar
	Tool plugged, sg only.			Tmp corrected Good

4	3803.50 m	-3773.70 m	652.59 bar	615.69 bar
	H.P. plugged.			Tmp corrected Good

Sampling

Final Pressure :	613.99 bar	Duration :
N° : 1		Mud volume :
Comments : The values refers to tank U.		Filtrate volume :

Shows and fluids

GAS	Volume	12.70 l	Comments
	From tank U.		

Operation N° : 7

Borehole : 25/4-6S
RFT Report (next 1)

Run N° : 1

WATER	Volume :	9.000 l	Type :	Salt water
	Salinity :		pH :	Density :
	Résistivity :		at temperature :	
	Comments :	From tank U.		

4.4 Formation pressure measurements

Both open and cased hole FMTs' were run in this formation. The reason was that due to the hole conditions the initial tool became stuck and was finally abandoned in the hole. At this point no pressure points had been taken in the water zone nor had there been recovered any fluid samples. A new attempt was made with a cased hole FMT after the casing had been set. The objectives were to establish a water gradient and to get a sample. None of these objectives were met due to plugging of the tool.

The open hole FMT tool made a total of 12 measurement before it got stuck, out of which 11 are considered valid formation pressures while the last point remains uncertain. A table giving all key information regarding formation pressures is listed next:

Depth (mRKB)	Depth (mMSL)	Hydrostatic pressure (bara)	Formation pressure (bara)	Drawdown pressure (bara)	Mobility ratio (mD/cP)	Comments
3736.3	3685.3	632.1	611.56	593	8.5	Good
3762.0	3710.7	636.1	612.63	581	4.2	Good
3766.5	3715.2	636.3	612.78	595	17.5	Good
3773.5	3722.1	637.2	613.08	610	161	Good
3782.5	3731.0	639.6	613.55	574	6.6	Good
3788.0	3736.4	640.3	613.86	587	12.4	Good
3793.0	3714.4	640.8	613.98	609	88.9	Good
3808.5	3756.7	643.9	614.81	602	28.5	Good
3816.0	3764.1	644.9	615.12	606	44.5	Good
3826.5	3774.5	648.7	615.82	443	0.5	Good
3830.5	3778.5	648.8	615.85	597	9.2	Good
3836.0	3783.9	649.2	616.93	404	0.4	Supercharged?

The 11 pressures in the gas zone fell on a straight line, which gave a fluid density of 0.486 g/cc (fig. 4.5).

No fluid samples were recovered.

A total of four cased hole FMT run were done (Western Atlas' cased hole FMT tool is limited to one shot pr. run). Of these were two with sampling chambers. For all four runs only strain gauge pressures are available as the Hewlett Packer (HP) gauge chamber most probably plugged such that no pressures could be recorded. At the first sampling attempt at 3816.0 mRKB no sample could be recovered as the sampling chamber most probably plugged. For the second sampling attempt at 3803.5 mRKB all flow restrictions were removed from the tool and fluids were recovered. However when opening the chambers only mudfiltrate (9 liters) was recovered together with a small gas volume (0.45 ft³).

Depth (mRKB)	Depth (mMSL)	Formation pressure (bara)	Comments
3803.5	3751.8	615.7	Strain gauge only(+sample)
3816.0	3764.1	616.5	Strain gauge only
3856.5	3804.2	619.8	Strain gauge only
3910.0	3857.1	629.7	Strain gauge only

The two strain gauge pressures in the gas zone was about 1.2 bar higher than the open hole pressures. This can be explained by the reported accuracy of the strain gauge which was 1.77 bar. Consequently all the strain gauge pressures were reduced by 1.2 bars to match the open hole values (fig. 4.5).

4.5 Drillstem testing.

4.5.1 INTRODUCTION

DST 1 was perforated 38 bars overbalanced with 4" 5/8 TCP, 12 sh/ft - DP, across the interval 3802 - 3819 mRKB MD (3750.2 - 3767.1 mMSL). This is in the lower part of the hydrocarbon bearing zone, approx. 20 meters above the water table. The reason behind testing only the lower part was to keep the good upper section intact as a virgin zone in case of future use as a producer. The objectives with the test were as follows:

- Obtain representative hydrocarbon samples, surface and bottomhole if necessary.
- Estimate productivity / flow potential
- Determine possible no-flow boundaries

Information from logs and FMT were not conclusive as to whether the hydrocarbons were in gas or liquid phase in the reservoir. The average bottomhole density across the hydrocarbon bearing interval was 0.486 g/cc.

4.5.2 PROGRAMME

- Clean-up flow on increasing rates (6 hours).
- GOR validation / surface sampling on decreasing rates (24 hours).
- First shut-in (6 hours).
- Multirate / main flow on 3 successive increasing rates, 3 + 3 + 18 hours (24 hours).
- Main build-up (24 hours).
- Optional bottomhole sampling, depending on fluid phase downhole (liquid/gas) (8 hours).

This test programme was constructed to cope with both fluid cases (hydrocarbons present in gas or liquid phase downhole).

The iso-kinetic sampling technique was to be used for all surface sampling.

4.5.3 SEQUENCE OF MAIN EVENTS

13-08-91	09:25	Perforate test interval (3802 - 3819 mRKB MD) with 4 5/8" TCP on tubing. Perforation was done with 38 bar overbalance in 1.75 g/cc mud.
15-08-91	13:11	Open LPR-N downhole valve with 45 bar underbalance.
	13:16	Open well on 16/64" choke. Increase to 20/64" and 24/64".
	14:45	Hydrocarbons to surface. Continue increasing chokes in steps of 4/64" up to 40/64".
	19:10	Change to 36/64" choke. Start of sampling flow.
	20:59	Change Rotron oil flow meter due to measurement problems. Oil flow rates before this time are invalid. Rotron water calibrations done prior to the test cannot be used as they were done with the faulty meter.
16-08-91	23:15	Take first isokinetic set: 1 oil + 1 dry gas + 2 isokinetic gas. One extra isokinetic gas sample was taken because the first one was not representative..
	01:06	Decrease to 32/64" choke. GOR remains the same and is stable.
	04:09	Decrease to 28/64" choke. GOR remains the same and is stable.
	06:36	Start taking samples on separator: 2 isokinetic sets (1 oil + 1 dry gas + 1 isokinetic gas) and 2 PVT sets (1 oil + 4 dry gas).
	12:00	Shut in well at LPR-N for 1. build up.
17-08-91	18:02	Open well on 24/64" choke.
	21:00	Increase to 36/64" choke.
	00:00	Increase to 52/64" choke for main flow.
	18:00	Bleed off annulus pressure to close LPR-N for main build up. A decrease in WHP of 3 bar was observed before the choke was closed. When choke was closed, WHP increased immediately, indicating that LPR-N did not close properly. It soon became clear that the well was in fact shut in at surface, and that the LPR-N was probably completely open.
	21:36	Increase annulus pressure to move LPR-N to open position. LPR-N was confirmed to be open, as no pressure change was observed at surface.
18-08-91	21:51	Bleed off annulus pressure. LPR-N closed immediately.
	18:35	End of main build-up. Open LPR-N.
	18:40	RIH slickline with 4 bottomhole samplers (Schlumberger PSTE) + 2 memory pressure gauges (Geoservices + Halliburton). 7 gradient stops were made while running in hole.
19-08-91	21:40	With samplers on depth (above BHA, 3690 mRKB MD), open well on 8/64" choke. Increase to 12/64" due to no flow.
	22:40	Shut in well at choke manifold.
	00:20	Fired samplers no. 8931 and 8811.
	00:35	Firing time for two other samplers. Unsuccessful.
	04:26	Both samples confirmed to be OK and identical. Start rig down and well killing sequence.

4.5.4 DOWNHOLE PRESSURE GAUGES

Two Geoservices (Geoquartz) and two Halliburton (HMR - Halliburton Memory Recorder) memory pressure gauges were set in gauge carriers immediately below the LPR-N. All gauges were set to read tubing pressure.

Two gauges (one from each contractor) of the same types were used in the bottomhole sampling string. The Halliburton gauge failed to produce valid data.

4.5.5 SUMMARY OF FLOW AND PRESSURE DATA

Time	Choke /64"	P _{wh} bara	T _{wh} °C	P _{sep} bara	T _{sep} °C	Q _{oil} Sm ³ /D	Q _{gas} Sm ³ /D	GOR Sm ³ /Sm ³	P _{bh} bara	T _{bh} °C
<u>CLEAN-UP</u>										
15/8 13:16	16-40	179	55							
<u>SAMPLING FLOW</u>										
15/8 19:10	36	210	65	25.0	35	585	372500	637	418	125.2
16/8 01:06	32	235	66	24.5	39	538	338800	630	434	125.6
16/8 04:09	28	264	65	24.0	35	432	294400	624	456	125.8
<u>I. BUILD-UP</u>										
16/8 12:00	0	200	19							
<u>MULTIRATE/MAIN FLOW</u>										
16/8 18:02	24	300	54	23.0	33	406	253600	625	490	125.9
16/8 21:00	36	217	70	24.6	40	599	382800	639	430	126.2
17/8 00:00	52	130	75	25.0	55	688	461700	671	370	126.3
<u>MAIN BUILD-UP</u>										
17/8 18:00	0	335								
<u>BH SAMPLING</u>										
18/8 21:40 - 22:40	12	382	28	20	34	135	83000	615	568	125.4

The separator conditions were kept more or less constant for all the flow periods except the highest rate (main flow) on 52/64" and the BHS flow. On the 52/64" main flow, the WHT was higher than on the lower rates, so the separator temperature could not be controlled by adjusting the heater, as it was in fact turned off for this rate.

The GOR for all rates (except 52/64" and BHS flow) is essentially constant. The 6% increase in GOR for the 52/64" is consistent with the higher separator temperature. The BHS flow was not stabilized long enough to draw any conclusion.

A complete review of all rates and GOR's with all applied corrections can be found in the following report: "Production rates and corrected gas/liquid ratios" - Petrotech.

4.5.6 SURFACE SAMPLING

The following surface samples are available from DST 1:

36/64" sampling flow: 1 isokinetic set (1 oil + 1 isokinetic gas + 1 dry gas).

28/64" sampling flow: 2 isokinetic sets (1 oil + 1 isokinetic gas + 1 dry gas).

2 PVT sets (1 oil + 4 dry gas).

2 drums and 4 jerrycans with dead oil.

52/64" main flow:

1 isokinetic set (1 oil + 1 isokinetic gas + 1 dry gas).

1 PVT set (1 oil + 4 dry gas).

BH sampling:

2 Schlumberger PSTE bottomhole samples.

All surface PVT samples should be representative, as all the sampling flows were stable, and the GOR showed no rate dependency.

A comprehensive summary of the PVT and isokinetic sampling can be found in the Petrotech sampling report and the SNEA(P) sampling report.

4.5.7 BOTTOMHOLE SAMPLING

Four Schlumberger PSTE bottomhole samplers were run on slickline after the main buildup in an attempt to secure representative monophasic samples. The samplers were coupled in pairs with mechanical clocks. In addition, two memory gauges (Halliburton and Geoservices) were added on the string.

While running in hole, 7 gradient stops were taken (10-15 minutes each):

Depth (mRKB MD)	Depth (mRKB TVD)	Pressure (bara)	Gradient (g/cc)
0	0	400	
1000	999.7	455.5	0.566
2000	1999.5	508.2	0.537
2500	2499.3	533.5	0.516
3000	2989.5	558.6	0.522
3400	3373.6	579.0	0.542
3500	3472.7	584.0	0.514
3600	3572.2	589.5	0.566
3690	3661.5	594.0	0.514

The measured gradient indicated that the tubing fluid was monophasic.

When the sampling string had reached the desired depth (3690 mRKB MD, immediately above the BHA), the well was opened on a small choke for 1 hour to get fresh reservoir fluid into the wellbore. The cumulative produced stock tank oil (measured on the surge tank) was approx. 4.5 Sm³. The drawdown on the formation during this flow was approx. 30 bar.

The well was then shut in at the choke for 1 1/2 hour before the first clock fired. The sampling pressure was 594.5 bara.

The two chambers on top had not sampled due to a malfunction with the uppermost sampling tool. The two bottom chambers contained samples (S/N 8931 and 8811).

Both of these bottomhole samples seem valid, as they had the same opening pressure, and showed exactly the same behaviour on a plot of pressure vs. volume. No bubble point could be found from this plot.

4.5.8 OTHER MEASUREMENTS

BSW (% of water in total liquid):	0 - 0.1%
Water salinity:	2000 - 3000 ppm
Water pH:	6.5
Water density:	1.002 g/cc @ 25 °C
CO ₂ :	3.2 %
H ₂ S:	1 - 3 ppm-vol
CH ₃ SH:	<0.1 ppm-vol
Rn-222:	0.04 Bq/l

4.9 Formation pressure measurements

A total of 8 pressure measurement attempts were performed. This resulted in two (perhaps three) good points and two tight points while the remaining measurements were supercharged. The poor results were due to the low permeability in most of this section. In addition one segregated sample was taken at 4141.5 mRKB.

The six attempts that resulted in any measurements are listed in the table below and plotted on fig. 4.6. Only two points are considered to be valid while a third point (at 4147.0 mRKB) is questionable. Drawing a line through these two points results in a gradient of 0.98 g/cc. Including the third point gives a too high gradient of 1.21 g/cc so it was concluded that this point is probably supercharged also.

The results from the strain gauge measurements are presented in the following table.

Depth (mRKB)	Depth (mMSL)	Formation pressure (bara)	Comments
4131.0	4077.5	646.60	Supercharged
4131.5	4078.0	644.43	Good
4141.5	4088.0	645.39	Good
4147.0	4093.5	646.28	Supercharged/Good?
4156.2	4102.7	650.48	Supercharged
4172.0	4118.5	650.56	Supercharged

The segregated sample that was recovered from 4141.5 mRKB was opened on the rig and gave the following results:

1 gal chamber: 3100 cc of water + mud filtrate
0.1 ft³ of gas
with an opening pressure of 600 psig
Salinity of water: 18 g/l

2 3/4 gal chamber: 9500 cc of water + mud filtrate
0.74 ft³ of gas
with an opening pressure of 550 psig
Salinity of water: 13.5 g/l

Mudfiltrate salinity: 20 g/l

4.10 Initial conditions, Statfjord

The initial conditions at reference level 4131.5 mRKB (-4078.0 mMSL) are:

$$P_{\text{res}} = 644.4 \text{ bara}$$

The pressure is taken from the FMT run in

4.11 Fluids in

The results from the FMT measurements and the logs which clearly shows the resistivity trying to read low values in the cleanest zones, lead to the conclusion that the formation was water bearing.

U-678

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AREA	SUBJECT	COUNTRY																				
NORWEGIAN NORTH SEA VIKING GRABEN	WELL 25/4-6s Geochemical analysis of DST 1 oil samples	NORWAY																				
Entity : EP/S/EXP/GDP Author : K. LE TRAN Approved by : J. BARLIER		Memo : N° 92-346 Object : Synthesis of results 11.04.92																				
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1	7 Figures	6	*																			
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1 - OBJECTIVES

At the request of PRO/RGI, PRO/GEO and EPN Reservoir, geochemical analyses have been carried out on oil samples from well 25/4-6's DST 1 aiming at determining the distribution of n-paraffins (n-alkanes) for comparison between samples from various origins. It was suspected that some variation did occur in the molecular distribution of n-alkanes, particularly within the heavy weight range, between the samples as a consequence of difference in the sampling procedures or other recovery and storage conditions.

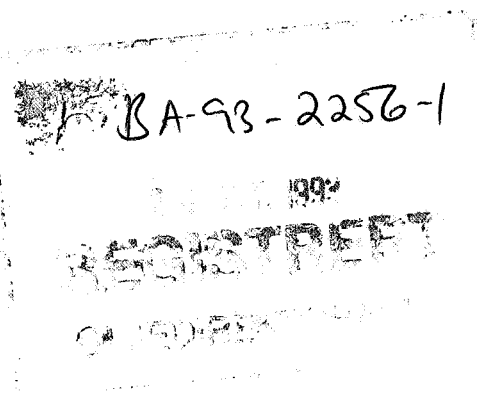
Because compositional variations of individual hydrocarbons in the samples have some influence on the results of the thermodynamic modelling, it is important to know about possible discrepancies in the compositional distribution in order to select the most suitable samples and to improve the procedure for such studies.

For the purpose of this study, a follow-through analyses/data processing has been devised.

2 - SAMPLES

Ten samples from DST 1 were supplied to us for analysis in four successive sets from may to october 1992. For easy identification and differentiation, the samples are referenced as follows :

- | | | |
|-----------------------|---------------|--------------|
| - from PVT Boussens | : DST 1-Bss 1 | } First set |
| - from PVT Corelab | : DST 1-Cor 1 | |
| (Aberdeen) | : DST 1-Cor2 | |
| - from PVT Boussens | : DST 1-Bss 2 | } Second set |
| - from PVT Corelab | : DST 1-Cor 3 | |
| (Aberdeen) | : DST 1-Cor 4 | |
| - from long core lab | : DST 1-Mor 1 | } Third set |
| (Morineau-CMP) | : DST 1-Mor 2 | |
| - from long core lab. | : DST 1-Mor 3 | } Fourth set |
| (Morineau-CMP) | : DST 1-Mor 4 | |



3 - ANALYTICAL AND DATA PROCESSING

The samples are topped, giving a stabilized residue which is further desulfured and deasphalted. The resulting oil residue is fractionated by liquid chromatography (LC) into saturated hydrocarbons (alkanes), aromatic hydrocarbons and resins. The alkane fraction is analysed by high resolution gas chromatography (GC) using a capillary column for the distribution of individual components. The gas chromatograms are reproduced in annexes 1 to 10, while the results from both the LC and GC are listed in table 1 for all ten samples, thus enabling to have an overall look on the main properties for comparison.

Direct analytical data processing gives access to the peak areas and a computing program leads to calculated percentages of n-alkanes, normalized over the nC10-nC45 range, and relative to different parts of the oil sample via compositional measured data. These data are reported for each sample in tables 2 to 11 with respect to the following parameters :

- distribution of n-alkanes expressed as normalized % relative to the whole n-C10 through n-C45 range, labelled "n-alkanes (% nC)" in tables and plots ;
- distribution of n-alkanes expressed as % relative to the total alkane fraction (referred to, sometimes, as the C15+ saturated hydrocarbon fraction), labelled "n-alkanes (% SAT)" in tables and plots ;
- distribution of n-alkanes expressed as % relative to the oil residue from distillation (topped oil), labelled "n-alkanes (% RD)" in tables and plots ;
- distribution of n-alkanes expressed as % relative to the whole oil or total oil, labelled "n-alkanes (% HT)" in tables and plots.

The results are best interpreted by graphical means (figures 1 to 7) showing the distribution curves relevant to all the samples for direct comparison.

Tab.1

RESULTS OF OIL ANALYSIS
25/4-6S

Sample	DST1-bss1	DST1-cor1	DST1-cor2	DST1-bss2	DST1-cor3	DST1-cor4	DST1-mor1	DST1-mor2	DST1-mor3	DST1-mor4
Lab reference	B45762	B45763	B45764	B48709	B48710	B48711	B48584	B48585	B49926	B49927
Origin	PVT	PVT	PVT	PVT	PVT	PVT	Long Core	Long Core	Long Core	Long Core
RESERVOIR										
Depth (m)	3802-3819	3802-3819	3802-3819	3802-3819	3802-3819	3802-3819	3802-3819	3802-3819	3802-3819	3802-3819
Lithology	sandstone	sandstone	sandstone	sandstone	sandstone	sandstone	sandstone	sandstone	sandstone	sandstone
BULK PROPERTIES										
Specific gravity	~	~	~	~	~	~	~	~	~	~
API gravity	~	~	~	~	~	~	~	~	~	~
Sulfur %	~	~	~	~	~	~	~	~	~	~
Residue C15+ %	58.25	74.45	68.95	59.03	58.93	71.13	58.58	57.79	55.78	59.94
COMPOSITION OF RESIDUE (C15+)										
% saturated HC	70.55	68.71	69.68	68.46	67.13	68.97	66.75	65.74	67.62	68.45
% aromatic HC	26.33	28.38	28.00	28.15	29.11	28.24	30.31	30.74	29.39	28.47
% resins	3.12	2.91	2.32	3.39	3.77	2.78	2.94	3.51	2.99	3.08
% asphaltenes	.00	0.00	0.00	0.00	0.00	0.00	.00	0.00	0.00	0.00
% total HC	96.88	97.09	97.68	96.61	96.24	97.21	97.06	96.48	97.01	96.92
sat/aro	2.68	2.42	2.49	2.43	2.31	2.44	2.20	2.14	2.30	2.40
COMPOSITION OF WHOLE OIL										
% distillate %	41.75	25.55	31.05	40.97	41.07	28.87	41.42	42.21	44.22	40.06
% sat HC (C15+)	41.10	51.15	48.04	40.41	39.56	49.06	39.10	37.99	37.72	41.03
% aro HC (C15+)	15.34	21.13	19.31	16.62	17.15	20.09	17.76	17.76	16.39	17.06
% resins	1.82	2.17	1.60	2.00	2.22	1.98	1.72	2.03	1.67	1.85
% asphaltenes	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
GAS CHROMATOGRAPHY										
Pr/Ph	2.62	2.71	2.58	2.79	2.63	2.32	2.54	2.22	2.66	2.57
Pr/nC17 = A	.61	.62	.60	.62	.60	.62	.64	.60	.60	.61
Ph/nC18 = B	.28	.28	.28	.28	.27	.31	.29	.33	.27	.28
A/B	2.17	2.21	2.16	2.22	2.21	1.99	2.18	1.84	2.21	2.15
CPI (C20-C30)	1.06	1.03	1.02	.94	1.04	1.02	1.02	.99	1.03	1.07
n-alkanes (%)	31.17	29.46	30.93	31.13	30.79	32.07	31.15	24.75	36.94	28.66

nC10	0	0.00%	0.00%	0.00%	0.00%	25/4-6S	dst 1-bss1	B45762
nC11	5538	0.73%	0.23%	0.16%	0.09%	3802-	3819 m	
nC12	29873	3.93%	1.22%	0.86%	0.50%			
nC13	51961	6.83%	2.12%	1.49%	0.87%		58.25%	RD (% HT)
nC14	61421	8.07%	2.50%	1.77%	1.03%		70.55%	SAT (% RD)
nC15	63084	8.29%	2.57%	1.81%	1.06%		30.99%	nC (% SAT)
nC16	59595	7.83%	2.43%	1.71%	1.00%			
nC17	56752	7.46%	2.31%	1.63%	0.95%		21.86%	nC (% RD)
Pr1	17008						12.74%	nC (% HT)
Pr	17513							
nC18	47038	6.18%	1.92%	1.35%	0.79%			
Ph1	6781							
Ph	6405							
nC19	42930	5.64%	1.75%	1.23%	0.72%			
nC20	37888	4.98%	1.54%	1.09%	0.63%			
nC21	34756	4.57%	1.42%	1.00%	0.58%			
nC22	33694	4.43%	1.37%	0.97%	0.56%			
nC23	31317	4.12%	1.28%	0.90%	0.52%			
STD D*	24549							
nC24	28901	3.80%	1.18%	0.83%	0.48%			
nC25	26140	3.44%	1.06%	0.75%	0.44%			
nC26	22700	2.98%	0.92%	0.65%	0.38%			
nC27	23709	3.12%	0.97%	0.68%	0.40%			
nC28	18300	2.41%	0.75%	0.53%	0.31%			
nC29	19873	2.61%	0.81%	0.57%	0.33%			
nC30	13133	1.73%	0.53%	0.38%	0.22%			
nC31	12380	1.63%	0.50%	0.36%	0.21%			
nC32	9867	1.30%	0.40%	0.28%	0.17%			
nC33	10431	1.37%	0.42%	0.30%	0.17%			
nC34	8370	1.10%	0.34%	0.24%	0.14%			
nC35	4894	0.64%	0.20%	0.14%	0.08%			
nC36	2331	0.31%	0.09%	0.07%	0.04%			
nC37	1408	0.19%	0.06%	0.04%	0.02%			
nC38	1397	0.18%	0.06%	0.04%	0.02%			
nC39	769	0.10%	0.03%	0.02%	0.01%			
nC40	328	0.04%	0.01%	0.01%	0.01%			
nC41	0	0.00%	0.00%	0.00%	0.00%			
nC42	0	0.00%	0.00%	0.00%	0.00%			
nC43	0	0.00%	0.00%	0.00%	0.00%			
nC44	0	0.00%	0.00%	0.00%	0.00%			
nC45	0	0.00%	0.00%	0.00%	0.00%			
sum nC	760778	100.00%	30.99%	21.86%	12.74%			
	Peak area	n-alkanes	n-alkanes	n-alkanes	n-alkanes			
	(corrected)	(% nC)	(% SAT)	(% RD)	(% HT)			

nC10	0	0.00%	0.00%	0.00%	0.00%	25/4-6S	dst 1-bss2	B48709
nC11	5466	0.88%	0.28%	0.19%	0.11%	3802-	3819 m-	
nC12	27488	4.44%	1.39%	0.95%	0.56%			
nC13	44555	7.20%	2.26%	1.55%	0.91%		59.03%	RD (% HT)
nC14	52084	8.42%	2.64%	1.81%	1.07%		68.46%	SAT (% RD)
nC15	52114	8.42%	2.64%	1.81%	1.07%		31.34%	nC (% SAT)
nC16	50814	8.21%	2.57%	1.76%	1.04%			
nC17	46656	7.54%	2.36%	1.62%	0.96%		21.46%	nC (% RD)
Pr1	13022						12.67%	nC (% HT)
Pr	15995							
nC18	37185	6.01%	1.88%	1.29%	0.76%			
Ph1	4941							
Ph	5464							
nC19	33731	5.45%	1.71%	1.17%	0.69%			
nC20	29307	4.74%	1.48%	1.02%	0.60%			
nC21	25823	4.17%	1.31%	0.90%	0.53%			
nC22	23735	3.84%	1.20%	0.82%	0.49%			
nC23	22867	3.70%	1.16%	0.79%	0.47%			
STD D*	19896							
nC24	21049	3.40%	1.07%	0.73%	0.43%			
nC25	18957	3.06%	0.96%	0.66%	0.39%			
nC26	16679	2.70%	0.84%	0.58%	0.34%			
nC27	15310	2.47%	0.78%	0.53%	0.31%			
nC28	14727	2.38%	0.75%	0.51%	0.30%			
nC29	12831	2.07%	0.65%	0.45%	0.26%			
nC30	10099	1.63%	0.51%	0.35%	0.21%			
nC31	9958	1.61%	0.50%	0.35%	0.20%			
nC32	8308	1.34%	0.42%	0.29%	0.17%			
nC33	8960	1.45%	0.45%	0.31%	0.18%			
nC34	7190	1.16%	0.36%	0.25%	0.15%			
nC35	5693	0.92%	0.29%	0.20%	0.12%			
nC36	4572	0.74%	0.23%	0.16%	0.09%			
nC37	3036	0.49%	0.15%	0.11%	0.06%			
nC38	2808	0.45%	0.14%	0.10%	0.06%			
nC39	2131	0.34%	0.11%	0.07%	0.04%			
nC40	1745	0.28%	0.09%	0.06%	0.04%			
nC41	1955	0.32%	0.10%	0.07%	0.04%			
nC42	773	0.12%	0.04%	0.03%	0.02%			
nC43	0	0.00%	0.00%	0.00%	0.00%			
nC44	0	0.00%	0.00%	0.00%	0.00%			
nC45	0	0.00%	0.00%	0.00%	0.00%			
sum nC	618606	100.00%	31.34%	21.46%	12.67%			
	Peak area	n-alkanes	n-alkanes	n-alkanes	n-alkanes			
	(corrected)	(% nC)	(% SAT)	(% RD)	(% HT)			

nC10	0	0.00%	0.00%	0.00%	0.00%	25/4-6S	dst 1-cor1	B45763
nC11	4524	0.67%	0.20%	0.13%	0.10%	3802-	3819 m	
nC12	26295	3.92%	1.14%	0.78%	0.58%			
nC13	48763	7.27%	2.11%	1.45%	1.08%		74.45%	RD (% HT)
nC14	60224	8.98%	2.61%	1.79%	1.34%		68.71%	SAT (% RD)
nC15	62606	9.34%	2.71%	1.86%	1.39%		29.07%	nC (% SAT)
nC16	59476	8.87%	2.58%	1.77%	1.32%			
nC17	55567	8.29%	2.41%	1.66%	1.23%		19.97%	nC (% RD)
Pr1	16263						14.87%	nC (% HT)
Pr	18023							
nC18	45341	6.76%	1.97%	1.35%	1.01%			
Ph1	6358							
Ph	6304							
nC19	42036	6.27%	1.82%	1.25%	0.93%			
nC20	36662	5.47%	1.59%	1.09%	0.81%			
nC21	33659	5.02%	1.46%	1.00%	0.75%			
nC22	32077	4.78%	1.39%	0.96%	0.71%			
nC23	29777	4.44%	1.29%	0.89%	0.66%			
STD D*	23062							
nC24	27756	4.14%	1.20%	0.83%	0.62%			
nC25	24262	3.62%	1.05%	0.72%	0.54%			
nC26	23233	3.46%	1.01%	0.69%	0.52%			
nC27	16859	2.51%	0.73%	0.50%	0.37%			
nC28	13266	1.98%	0.58%	0.40%	0.29%			
nC29	11959	1.78%	0.52%	0.36%	0.27%			
nC30	5873	0.88%	0.25%	0.17%	0.13%			
nC31	3972	0.59%	0.17%	0.12%	0.09%			
nC32	2604	0.39%	0.11%	0.08%	0.06%			
nC33	3733	0.56%	0.16%	0.11%	0.08%			
nC34	0	0.00%	0.00%	0.00%	0.00%			
nC35	0	0.00%	0.00%	0.00%	0.00%			
nC36	0	0.00%	0.00%	0.00%	0.00%			
nC37	0	0.00%	0.00%	0.00%	0.00%			
nC38	0	0.00%	0.00%	0.00%	0.00%			
nC39	0	0.00%	0.00%	0.00%	0.00%			
nC40	0	0.00%	0.00%	0.00%	0.00%			
nC41	0	0.00%	0.00%	0.00%	0.00%			
nC42	0	0.00%	0.00%	0.00%	0.00%			
nC43	0	0.00%	0.00%	0.00%	0.00%			
nC44	0	0.00%	0.00%	0.00%	0.00%			
nC45	0	0.00%	0.00%	0.00%	0.00%			
sum nC	670524	100.00%	29.07%	19.97%	14.87%			
	Peak area	n-alkanes	n-alkanes	n-alkanes	n-alkanes			
	(corrected)	(% nC)	(% SAT)	(% RD)	(% HT)			

nC10	0	0.00%	0.00%	0.00%	0.00%	25/4-6S	dst 1-cor2	B45764
nC11	8580	1.11%	0.34%	0.24%	0.16%	3802-	3819 m	
nC12	37171	4.79%	1.48%	1.03%	0.71%			
nC13	59366	7.65%	2.37%	1.65%	1.14%		68.95%	RD (% HT)
nC14	68672	8.85%	2.74%	1.91%	1.32%		69.68%	SAT (% RD)
nC15	69691	8.98%	2.78%	1.94%	1.34%		30.93%	nC (% SAT)
nC16	65248	8.41%	2.60%	1.81%	1.25%			
nC17	62500	8.06%	2.49%	1.74%	1.20%		21.55%	nC (% RD)
Pr1	18635						14.86%	nC (% HT)
Pr	19143							
nC18	52319	6.75%	2.09%	1.45%	1.00%			
Ph1	7478							
Ph	7180							
nC19	48182	6.21%	1.92%	1.34%	0.92%			
nC20	42191	5.44%	1.68%	1.17%	0.81%			
nC21	39141	5.05%	1.56%	1.09%	0.75%			
nC22	36827	4.75%	1.47%	1.02%	0.71%			
nC23	35215	4.54%	1.40%	0.98%	0.67%			
STD D*	25080							
nC24	32535	4.19%	1.30%	0.90%	0.62%			
nC25	28981	3.74%	1.16%	0.81%	0.56%			
nC26	24983	3.22%	1.00%	0.69%	0.48%			
nC27	20677	2.67%	0.82%	0.57%	0.40%			
nC28	15975	2.06%	0.64%	0.44%	0.31%			
nC29	11292	1.46%	0.45%	0.31%	0.22%			
nC30	6785	0.87%	0.27%	0.19%	0.13%			
nC31	4113	0.53%	0.16%	0.11%	0.08%			
nC32	2141	0.28%	0.09%	0.06%	0.04%			
nC33	2590	0.33%	0.10%	0.07%	0.05%			
nC34	463	0.06%	0.02%	0.01%	0.01%			
nC35	0	0.00%	0.00%	0.00%	0.00%			
nC36	0	0.00%	0.00%	0.00%	0.00%			
nC37	0	0.00%	0.00%	0.00%	0.00%			
nC38	0	0.00%	0.00%	0.00%	0.00%			
nC39	0	0.00%	0.00%	0.00%	0.00%			
nC40	0	0.00%	0.00%	0.00%	0.00%			
nC41	0	0.00%	0.00%	0.00%	0.00%			
nC42	0	0.00%	0.00%	0.00%	0.00%			
nC43	0	0.00%	0.00%	0.00%	0.00%			
nC44	0	0.00%	0.00%	0.00%	0.00%			
nC45	0	0.00%	0.00%	0.00%	0.00%			
sum nC	775638	100.00%	30.93%	21.55%	14.86%			
	Peak area	n-alkanes	n-alkanes	n-alkanes	n-alkanes			
	(corrected)	(% nC)	(% SAT)	(% RD)	(% HT)			

nC10	0	0.00%	0.00%	0.00%	0.00%	25/4-6S	dst 1-cor3	B48710
nC11	9542	0.97%	0.30%	0.20%	0.12%	3802-	3819 m	
nC12	43038	4.38%	1.35%	0.91%	0.53%			
nC13	68674	6.99%	2.15%	1.45%	0.85%		58.93%	RD (% HT)
nC14	78517	8.00%	2.46%	1.65%	0.97%		67.13%	SAT (% RD)
nC15	79117	8.06%	2.48%	1.67%	0.98%		30.79%	nC (% SAT)
nC16	75058	7.64%	2.35%	1.58%	0.93%			
nC17	73546	7.49%	2.31%	1.55%	0.91%		20.67%	nC (% RD)
Pr1	23180						12.18%	nC (% HT)
Pr	21214							
nC18	61803	6.29%	1.94%	1.30%	0.77%			
Ph1	8067							
Ph	8835							
nC19	55703	5.67%	1.75%	1.17%	0.69%			
nC20	50434	5.14%	1.58%	1.06%	0.63%			
nC21	47215	4.81%	1.48%	0.99%	0.59%			
nC22	44736	4.56%	1.40%	0.94%	0.55%			
nC23	42720	4.35%	1.34%	0.90%	0.53%			
STD D*	31895							
nC24	38356	3.91%	1.20%	0.81%	0.48%			
nC25	35735	3.64%	1.12%	0.75%	0.44%			
nC26	30815	3.14%	0.97%	0.65%	0.38%			
nC27	27693	2.82%	0.87%	0.58%	0.34%			
nC28	23154	2.36%	0.73%	0.49%	0.29%			
nC29	21096	2.15%	0.66%	0.44%	0.26%			
nC30	15098	1.54%	0.47%	0.32%	0.19%			
nC31	13630	1.39%	0.43%	0.29%	0.17%			
nC32	10573	1.08%	0.33%	0.22%	0.13%			
nC33	10349	1.05%	0.32%	0.22%	0.13%			
nC34	9507	0.97%	0.30%	0.20%	0.12%			
nC35	4524	0.46%	0.14%	0.10%	0.06%			
nC36	3973	0.40%	0.12%	0.08%	0.05%			
nC37	1679	0.17%	0.05%	0.04%	0.02%			
nC38	2180	0.22%	0.07%	0.05%	0.03%			
nC39	1438	0.15%	0.05%	0.03%	0.02%			
nC40	1408	0.14%	0.04%	0.03%	0.02%			
nC41	705	0.07%	0.02%	0.01%	0.01%			
nC42	0	0.00%	0.00%	0.00%	0.00%			
nC43	0	0.00%	0.00%	0.00%	0.00%			
nC44	0	0.00%	0.00%	0.00%	0.00%			
nC45	0	0.00%	0.00%	0.00%	0.00%			
sum nC	982016	100.00%	30.79%	20.67%	12.18%			
	Peak area	n-alkanes	n-alkanes	n-alkanes	n-alkanes			
	(corrected)	(% nC)	(% SAT)	(% RD)	(% HT)			

nC10	0	0.00%	0.00%	0.00%	0.00%	25/4-6S	dst 1-cor4	B48711
nC11	15187	1.66%	0.53%	0.37%	0.26%	3802-	3819 m	
nC12	46975	5.13%	1.64%	1.13%	0.81%			
nC13	66149	7.22%	2.32%	1.60%	1.14%		71.13%	RD (% HT)
nC14	72440	7.91%	2.54%	1.75%	1.24%		68.97%	SAT (% RD)
nC15	72019	7.86%	2.52%	1.74%	1.24%		32.07%	nC (% SAT)
nC16	68104	7.44%	2.38%	1.64%	1.17%			
nC17	66169	7.22%	2.32%	1.60%	1.14%		22.12%	nC (% RD)
Pr1	19908						15.73%	nC (% HT)
Pr	20803							
nC18	56691	6.19%	1.99%	1.37%	0.97%			
Ph1	7912							
Ph	9635							
nC19	51362	5.61%	1.80%	1.24%	0.88%			
nC20	45262	4.94%	1.58%	1.09%	0.78%			
nC21	41745	4.56%	1.46%	1.01%	0.72%			
nC22	40371	4.41%	1.41%	0.97%	0.69%			
nC23	38065	4.16%	1.33%	0.92%	0.65%			
STD D*	28563							
nC24	34773	3.80%	1.22%	0.84%	0.60%			
nC25	31097	3.40%	1.09%	0.75%	0.53%			
nC26	27398	2.99%	0.96%	0.66%	0.47%			
nC27	26848	2.93%	0.94%	0.65%	0.46%			
nC28	22620	2.47%	0.79%	0.55%	0.39%			
nC29	19126	2.09%	0.67%	0.46%	0.33%			
nC30	14191	1.55%	0.50%	0.34%	0.24%			
nC31	12450	1.36%	0.44%	0.30%	0.21%			
nC32	9305	1.02%	0.33%	0.22%	0.16%			
nC33	9698	1.06%	0.34%	0.23%	0.17%			
nC34	8102	0.88%	0.28%	0.20%	0.14%			
nC35	5773	0.63%	0.20%	0.14%	0.10%			
nC36	3620	0.40%	0.13%	0.09%	0.06%			
nC37	1992	0.22%	0.07%	0.05%	0.03%			
nC38	3418	0.37%	0.12%	0.08%	0.06%			
nC39	1722	0.19%	0.06%	0.04%	0.03%			
nC40	3197	0.35%	0.11%	0.08%	0.05%			
nC41	0	0.00%	0.00%	0.00%	0.00%			
nC42	0	0.00%	0.00%	0.00%	0.00%			
nC43	0	0.00%	0.00%	0.00%	0.00%			
nC44	0	0.00%	0.00%	0.00%	0.00%			
nC45	0	0.00%	0.00%	0.00%	0.00%			
sum nC	915869	100.00%	32.07%	22.12%	15.73%			
	Peak area	n-alkanes	n-alkanes	n-alkanes	n-alkanes			
	(corrected)	(% nC)	(% SAT)	(% RD)	(% HT)			

nC10	0	0.00%	0.00%	0.00%	0.00%	25/4-6S	dst 1-mor1	B48584
nC11	9941	1.49%	0.46%	0.31%	0.18%	3802-	3819 m	
nC12	37545	5.62%	1.75%	1.17%	0.68%			
nC13	57267	8.58%	2.67%	1.78%	1.04%		58.58%	RD (% HT)
nC14	64975	9.73%	3.03%	2.02%	1.19%		66.75%	SAT (% RD)
nC15	63698	9.54%	2.97%	1.98%	1.16%		31.15%	nC (% SAT)
nC16	60339	9.04%	2.81%	1.88%	1.10%			
nC17	55860	8.37%	2.61%	1.74%	1.02%		20.79%	nC (% RD)
Pr1	16352						12.18%	nC (% HT)
Pr	19247							
nC18	47928	7.18%	2.24%	1.49%	0.87%			
Ph1	6214							
Ph	7788							
nC19	43842	6.57%	2.05%	1.37%	0.80%			
nC20	37845	5.67%	1.77%	1.18%	0.69%			
nC21	35221	5.27%	1.64%	1.10%	0.64%			
nC22	33233	4.98%	1.55%	1.03%	0.61%			
nC23	28754	4.31%	1.34%	0.90%	0.52%			
STD D*	21435							
nC24	25628	3.84%	1.20%	0.80%	0.47%			
nC25	22061	3.30%	1.03%	0.69%	0.40%			
nC26	15620	2.34%	0.73%	0.49%	0.28%			
nC27	11948	1.79%	0.56%	0.37%	0.22%			
nC28	9408	1.41%	0.44%	0.29%	0.17%			
nC29	4626	0.69%	0.22%	0.14%	0.08%			
nC30	2023	0.30%	0.09%	0.06%	0.04%			
nC31	0	0.00%	0.00%	0.00%	0.00%			
nC32	0	0.00%	0.00%	0.00%	0.00%			
nC33	0	0.00%	0.00%	0.00%	0.00%			
nC34	0	0.00%	0.00%	0.00%	0.00%			
nC35	0	0.00%	0.00%	0.00%	0.00%			
nC36	0	0.00%	0.00%	0.00%	0.00%			
nC37	0	0.00%	0.00%	0.00%	0.00%			
nC38	0	0.00%	0.00%	0.00%	0.00%			
nC39	0	0.00%	0.00%	0.00%	0.00%			
nC40	0	0.00%	0.00%	0.00%	0.00%			
nC41	0	0.00%	0.00%	0.00%	0.00%			
nC42	0	0.00%	0.00%	0.00%	0.00%			
nC43	0	0.00%	0.00%	0.00%	0.00%			
nC44	0	0.00%	0.00%	0.00%	0.00%			
nC45	0	0.00%	0.00%	0.00%	0.00%			
sum nC	667762	100.00%	31.15%	20.79%	12.18%			
	Peak area	n-alkanes	n-alkanes	n-alkanes	n-alkanes			
	(corrected)	(% nC)	(% SAT)	(% RD)	(% HT)			

nC10	0	0.00%	0.00%	0.00%	0.00%	25/4-6S	dst 1-mor2	B48585
nC11	9358	1.07%	0.26%	0.17%	0.10%	3802-	3819 m	
nC12	42440	4.84%	1.20%	0.79%	0.46%			
nC13	69916	7.97%	1.97%	1.30%	0.75%		57.79%	RD (% HT)
nC14	81058	9.24%	2.29%	1.50%	0.87%		65.74%	SAT (% RD)
nC15	81727	9.32%	2.31%	1.52%	0.88%		24.75%	nC (% SAT)
nC16	76863	8.76%	2.17%	1.43%	0.82%			
nC17	75342	8.59%	2.13%	1.40%	0.81%		16.27%	nC (% RD)
Pr1	21816						9.40%	nC (% HT)
Pr	23495							
nC18	62596	7.14%	1.77%	1.16%	0.67%			
Ph1	9795							
Ph	10611							
nC19	57428	6.55%	1.62%	1.07%	0.62%			
nC20	50783	5.79%	1.43%	0.94%	0.54%			
nC21	47583	5.43%	1.34%	0.88%	0.51%			
nC22	47583	5.43%	1.34%	0.88%	0.51%			
nC23	43724	4.99%	1.23%	0.81%	0.47%			
STD D*	35429							
nC24	39744	4.53%	1.12%	0.74%	0.43%			
nC25	30991	3.53%	0.87%	0.58%	0.33%			
nC26	23096	2.63%	0.65%	0.43%	0.25%			
nC27	16379	1.87%	0.46%	0.30%	0.18%			
nC28	12203	1.39%	0.34%	0.23%	0.13%			
nC29	5753	0.66%	0.16%	0.11%	0.06%			
nC30	2378	0.27%	0.07%	0.04%	0.03%			
nC31	0	0.00%	0.00%	0.00%	0.00%			
nC32	0	0.00%	0.00%	0.00%	0.00%			
nC33	0	0.00%	0.00%	0.00%	0.00%			
nC34	0	0.00%	0.00%	0.00%	0.00%			
nC35	0	0.00%	0.00%	0.00%	0.00%			
nC36	0	0.00%	0.00%	0.00%	0.00%			
nC37	0	0.00%	0.00%	0.00%	0.00%			
nC38	0	0.00%	0.00%	0.00%	0.00%			
nC39	0	0.00%	0.00%	0.00%	0.00%			
nC40	0	0.00%	0.00%	0.00%	0.00%			
nC41	0	0.00%	0.00%	0.00%	0.00%			
nC42	0	0.00%	0.00%	0.00%	0.00%			
nC43	0	0.00%	0.00%	0.00%	0.00%			
nC44	0	0.00%	0.00%	0.00%	0.00%			
nC45	0	0.00%	0.00%	0.00%	0.00%			
sum nC	876945	100.00%	24.75%	16.27%	9.40%			
	Peak area	n-alkanes	n-alkanes	n-alkanes	n-alkanes			
	(corrected)	(% nC)	(% SAT)	(% RD)	(% HT)			

nC10	0	0.00%	0.00%	0.00%	0.00%	25/4-6S	dst 1-mor3	B49926
nC11	2803	0.28%	0.10%	0.07%	0.04%	3802-	3819 m	
nC12	29079	2.89%	1.07%	0.72%	0.40%			
nC13	62925	6.26%	2.31%	1.56%	0.87%		55.78%	RD (% HT)
nC14	78052	7.76%	2.87%	1.94%	1.08%		67.62%	SAT (% RD)
nC15	86860	8.63%	3.19%	2.16%	1.20%		36.94%	nC (% SAT)
nC16	83762	8.33%	3.08%	2.08%	1.16%			
nC17	85549	8.50%	3.14%	2.12%	1.18%		24.98%	nC (% RD)
Pr1	25920						13.93%	nC (% HT)
Pr	25567							
nC18	71233	7.08%	2.62%	1.77%	0.99%			
Ph1	9250							
Ph	10119							
nC19	58656	5.83%	2.15%	1.46%	0.81%			
nC20	52412	5.21%	1.92%	1.30%	0.73%			
nC21	48857	4.86%	1.79%	1.21%	0.68%			
nC22	47198	4.69%	1.73%	1.17%	0.65%			
nC23	44637	4.44%	1.64%	1.11%	0.62%			
STD D*	27228							
nC24	40853	4.06%	1.50%	1.01%	0.57%			
nC25	37264	3.70%	1.37%	0.93%	0.52%			
nC26	32268	3.21%	1.18%	0.80%	0.45%			
nC27	29594	2.94%	1.09%	0.73%	0.41%			
nC28	23726	2.36%	0.87%	0.59%	0.33%			
nC29	21743	2.16%	0.80%	0.54%	0.30%			
nC30	15890	1.58%	0.58%	0.39%	0.22%			
nC31	14894	1.48%	0.55%	0.37%	0.21%			
nC32	11440	1.14%	0.42%	0.28%	0.16%			
nC33	8376	0.83%	0.31%	0.21%	0.12%			
nC34	7263	0.72%	0.27%	0.18%	0.10%			
nC35	4613	0.46%	0.17%	0.11%	0.06%			
nC36	1364	0.14%	0.05%	0.03%	0.02%			
nC37	1463	0.15%	0.05%	0.04%	0.02%			
nC38	1496	0.15%	0.05%	0.04%	0.02%			
nC39	864	0.09%	0.03%	0.02%	0.01%			
nC40	777	0.08%	0.03%	0.02%	0.01%			
nC41	0	0.00%	0.00%	0.00%	0.00%			
nC42	0	0.00%	0.00%	0.00%	0.00%			
nC43	0	0.00%	0.00%	0.00%	0.00%			
nC44	0	0.00%	0.00%	0.00%	0.00%			
nC45	0	0.00%	0.00%	0.00%	0.00%			
sum nC	1005911	100.00%	36.94%	24.98%	13.93%			
	Peak area	n-alkanes	n-alkanes	n-alkanes	n-alkanes			
	(corrected)	(% nC)	(% SAT)	(% RD)	(% HT)			

nC10	426	0.06%	0.02%	0.01%	0.01%	25/4-6S	dst 1-mor4	B49927
nC11	12695	1.70%	0.48%	0.33%	0.20%	3802-	3819 m	
nC12	43919	5.87%	1.67%	1.14%	0.69%			
nC13	62773	8.39%	2.39%	1.64%	0.98%		59.94%	RD (% HT)
nC14	67078	8.96%	2.55%	1.75%	1.05%		68.45%	SAT (% RD)
nC15	71948	9.61%	2.74%	1.87%	1.12%		28.49%	nC (% SAT)
nC16	67176	8.97%	2.56%	1.75%	1.05%			
nC17	62845	8.40%	2.39%	1.64%	0.98%		19.50%	nC (% RD)
Pr1	19484						11.69%	nC (% HT)
Pr	18717							
nC18	52539	7.02%	2.00%	1.37%	0.82%			
Ph1	7558							
Ph	7285							
nC19	48799	6.52%	1.86%	1.27%	0.76%			
nC20	42798	5.72%	1.63%	1.11%	0.67%			
nC21	39596	5.29%	1.51%	1.03%	0.62%			
nC22	37252	4.98%	1.42%	0.97%	0.58%			
nC23	34434	4.60%	1.31%	0.90%	0.54%			
STD D*	26276							
nC24	30670	4.10%	1.17%	0.80%	0.48%			
nC25	25375	3.39%	0.97%	0.66%	0.40%			
nC26	19074	2.55%	0.73%	0.50%	0.30%			
nC27	13935	1.86%	0.53%	0.36%	0.22%			
nC28	8247	1.10%	0.31%	0.21%	0.13%			
nC29	4297	0.57%	0.16%	0.11%	0.07%			
nC30	1484	0.20%	0.06%	0.04%	0.02%			
nC31	796	0.11%	0.03%	0.02%	0.01%			
nC32	412	0.06%	0.02%	0.01%	0.01%			
nC33	0	0.00%	0.00%	0.00%	0.00%			
nC34	0	0.00%	0.00%	0.00%	0.00%			
nC35	0	0.00%	0.00%	0.00%	0.00%			
nC36	0	0.00%	0.00%	0.00%	0.00%			
nC37	0	0.00%	0.00%	0.00%	0.00%			
nC38	0	0.00%	0.00%	0.00%	0.00%			
nC39	0	0.00%	0.00%	0.00%	0.00%			
nC40	0	0.00%	0.00%	0.00%	0.00%			
nC41	0	0.00%	0.00%	0.00%	0.00%			
nC42	0	0.00%	0.00%	0.00%	0.00%			
nC43	0	0.00%	0.00%	0.00%	0.00%			
nC44	0	0.00%	0.00%	0.00%	0.00%			
nC45	0	0.00%	0.00%	0.00%	0.00%			
sum nC	748568	100.00%	28.49%	19.50%	11.69%			
	Peak area	n-alkanes	n-alkanes	n-alkanes	n-alkanes			
	(corrected)	(% nC)	(% SAT)	(% RD)	(% HT)			

DE EP/S/EXP/GDP	Nº 92-024	Date 18.06.92
POUR ATTRIBUTION : S.HAMRE-B.PEDERSEN (EAN Reservoir) F.MONTEL(EP/S/PRO/RGI) -JP.LOMBARD(EP/S/PRO/GEO)		
POUR INFORMATION : JR.STEVAUX-JP.ROUSSET-J.BARLIER-B.PHILIPPE J.CONNAN		

A l'attention de M.

N/Références :

Our fax of 17.04.92

V/Références : Your fax of 09.04.92 and your telex of 28.04.92

Objet : GEOCHEMICAL ANALYSIS OF THREE PVT OIL SAMPLES FROM
WELL 25/4-6s

Pièces jointes : 1 table + 2 figures + 15 annexes

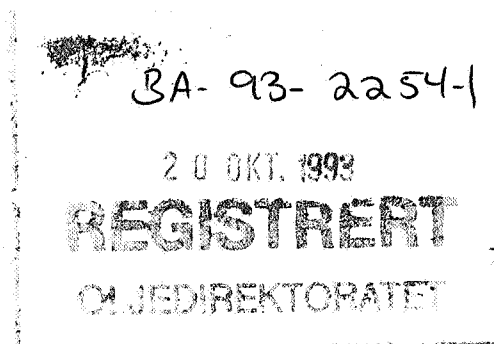


TABLE 1

RESULTS OF OIL ANALYSIS
25/4-6S

sample	DST1	DST1	DST1
lab reference	B45762	B45763	B45764
origin	PVT-bss	PVT-Cor1	PVT-Cor2
RESERVOIR			
depth (m)	3802-3819	3802-3819	3802-3819
lithology	sandstone	sandstone	sandstone
BULK PROPERTIES			
specific gravity	~	~	~
API gravity	~	~	~
sulfur %	~	~	~
residue C14+ %	58.25	74.45	68.95
COMPOSITION OF RESIDUE C14+			
% saturated HC	70.55	68.71	69.68
% aromatic HC	26.33	28.38	28.00
% resins	3.12	2.91	2.32
% asphaltenes	.00	0.00	0.00
% total HC	96.88	97.09	97.68
sat/aro	2.68	2.42	2.49
COMPOSITION OF WHOLE OIL			
distillate %	41.75	25.55	31.05
saturated HC C14+	41.10	51.15	48.04
aromatic HC C14+	15.34	21.13	19.31
resins	1.82	2.17	1.60
asphaltenes	.00	.00	.00
GAS CHROMATOGRAPHY			
Pr/Ph	2.62	2.71	2.58
Pr/nC17 = A	.61	.62	.60
Ph/nC18 = B	.28	.28	.28
A/B	2.17	2.21	2.16
CPI (C20-C30)	1.06	1.03	1.02
n-alkanes (%)	31.17	29.46	30.93

~ not measured

PROGRAMME POST-ANALYSE

Fichier: ST_B45762_NO

Nom |chantillon: NORVEGE 25/4-6S DST1-BSS

Date injection: 20-05-92 à 13 heures

Il manque le nC10		(1)	.
Surface nC11	5538.	(2)	+--->
Surface nC12	29873.	(3)	+----->
Surface nC13	51961.	(4)	+----->
Surface nC14	61421.	(5)	+----->
Surface nC15	63084.	(6)	+----->
Surface nC16	59595.	(7)	+----->
Surface nC17	56752.	(8)	+----->
Surface Pr1	17008.	(37)	+----->
Surface Pr	17513.	(38)	+----->
Surface nC18	47038.	(9)	+----->
Surface Ph1	6781.	(39)	+--->
Surface Ph	6405.	(40)	+--->
Surface nC19	42930.	(10)	+----->
Surface nC20	37888.	(11)	+----->
Surface nC21	34756.	(12)	+----->
Surface nC22	33694.	(13)	+----->
Surface nC23	31317.	(14)	+----->
Surface STD_D*	24549.	(41)	+----->
Surface nC24	28901.	(15)	+----->
Surface nC25	26140.	(16)	+----->
Surface nC26	22700.	(17)	+----->
Surface nC27	23709.	(18)	+----->
Surface nC28	18300.	(19)	+----->
Surface nC29	19873.	(20)	+----->
Surface nC30	13133.	(21)	+----->
Surface nC31	12380.	(22)	+----->
Surface nC32	9867.	(23)	+----->
Surface nC33	10431.	(24)	+----->
Surface nC34	8370.	(25)	+----->
Surface nC35	4894.	(26)	+--->
Surface nC36	316.	(27)	>
Surface nC37	1408.	(28)	+>
Surface nC38	287.	(29)	>
Il manque le nC39		(30)	.
Surface nC40	328.	(31)	>
Il manque le nC41		(32)	.
Il manque le nC42		(33)	.
Il manque le nC43		(34)	.
Il manque le nC44		(35)	.
Il manque le nC45		(36)	.

Pr/nC17	=	.61
Ph/nC18	=	.28
pr/ph	=	2.62
A/B	=	2.17
ph1/ph2	=	1.06
pr2/ph2	=	2.73
pr1/pr2	=	.97
pr2/nC17	=	.31
ph2/nC18	=	.14
CPI. 14-34	=	1.06
CPI. 14-24	=	1.03
CPI. 22-34	=	1.10
CPI. 20-30	=	1.06

% n-alcanes dans saturés = 30.83

PROGRAMME POST-ANALYSE

Fichier: ST_B45763_NO

Nom |chantillon: NORVEGE 25/4-6S DST1-COR1

Date injection: 21-05-92 L 9 heures

Il manque le nC10	(1)	.
Surface nC11 4524.	(2)	+--->
Surface nC12 26295.	(3)	+----->
Surface nC13 48763.	(4)	+----->
Surface nC14 60224.	(5)	+----->
Surface nC15 62606.	(6)	+----->
Surface nC16 59476.	(7)	+----->
Surface nC17 55567.	(8)	+----->
Surface Pr1 16263.	(37)	+----->
Surface Pr 18023.	(38)	+----->
Surface nC18 45341.	(9)	+----->
Surface Ph1 6358.	(39)	+----->
Surface Ph 6304.	(40)	+----->
Surface nC19 42036.	(10)	+----->
Surface nC20 36662.	(11)	+----->
Surface nC21 33659.	(12)	+----->
Surface nC22 32077.	(13)	+----->
Surface nC23 29777.	(14)	+----->
Surface STD_D* 23062.	(41)	+----->
Surface nC24 27756.	(15)	+----->
Surface nC25 24262.	(16)	+----->
Surface nC26 23233.	(17)	+----->
Surface nC27 16859.	(18)	+----->
Surface nC28 13266.	(19)	+----->
Surface nC29 11959.	(20)	+----->
Surface nC30 5873.	(21)	+----->
Surface nC31 3972.	(22)	+-->
Surface nC32 2604.	(23)	+-->
Surface nC33 3733.	(24)	+-->
Il manque le nC34	(25)	.
Il manque le nC35	(26)	.
Il manque le nC36	(27)	.
Il manque le nC37	(28)	.
Il manque le nC38	(29)	.
Il manque le nC39	(30)	.
Il manque le nC40	(31)	.
Il manque le nC41	(32)	.
Il manque le nC42	(33)	.
Il manque le nC43	(34)	.
Il manque le nC44	(35)	.
Il manque le nC45	(36)	.

Pr/nC17	=	.62
Ph/nC18	=	.28
pr/ph	=	2.71
A/B	=	2.21
ph1/ph2	=	1.01
pr2/ph2	=	2.86
pr1/pr2	=	.90
pr2/nC17	=	.32
ph2/nC18	=	.14
CPI. 14-24	=	1.03
CPI. 20-30	=	1.01

% n-alcanes dans satur+s = 29.07

PROGRAMME POST-ANALYSE

Fichier: ST_B45764_NO

Nom |chantillon: NORVEGE 25/4-6S DST1-COR2

Date injection: 21-05-92 à 15 heures

Il manque le	nC10		(1)	.
Surface	nC11	8580.	(2)	+----->
Surface	nC12	37171.	(3)	+----->
Surface	nC13	59366.	(4)	+----->
Surface	nC14	68672.	(5)	+----->
Surface	nC15	69691.	(6)	+----->
Surface	nC16	65248.	(7)	+----->
Surface	nC17	62500.	(8)	+----->
Surface	Pr1	18635.	(37)	+----->
Surface	Pr	19143.	(38)	+----->
Surface	nC18	52319.	(9)	+----->
Surface	Ph1	7478.	(39)	+----->
Surface	Ph	7180.	(40)	+----->
Surface	nC19	48182.	(10)	+----->
Surface	nC20	42191.	(11)	+----->
Surface	nC21	39141.	(12)	+----->
Surface	nC22	36827.	(13)	+----->
Surface	nC23	35215.	(14)	+----->
Surface	STD_D*	25080.	(41)	+----->
Surface	nC24	32535.	(15)	+----->
Surface	nC25	28981.	(16)	+----->
Surface	nC26	24983.	(17)	+----->
Surface	nC27	20677.	(18)	+----->
Surface	nC28	15975.	(19)	+----->
Surface	nC29	11292.	(20)	+----->
Surface	nC30	6785.	(21)	+----->
Surface	nC31	4113.	(22)	+----->
Surface	nC32	2141.	(23)	+----->
Surface	nC33	2590.	(24)	+----->
Surface	nC34	463.	(25)	>
Il manque le	nC35		(26)	.
Il manque le	nC36		(27)	.
Il manque le	nC37		(28)	.
Il manque le	nC38		(29)	.
Il manque le	nC39		(30)	.
Il manque le	nC40		(31)	.
Il manque le	nC41		(32)	.
Il manque le	nC42		(33)	.
Il manque le	nC43		(34)	.
Il manque le	nC44		(35)	.
Il manque le	nC45		(36)	.

Pr/nC17 = .60

Ph/nC18 = .28

pr/ph = 2.58

A/B = 2.16

ph1/ph2 = 1.04

pr2/ph2 = 2.67

pr1/pr2 = .97

pr2/nC17 = .31

ph2/nC18 = .14

CPI. 14-34 = 1.04

CPI. 14-24 = 1.04

CPI. 22-34 = 1.05

CPI. 20-30 = 1.02

% n-alcanes dans satur+s = 30.93

2546BSS.XLS

25/4-6s		% n-alc/résidu	% résidu	% sat/résidu	% n-alc/sat
B45762	pvt - bss	0.1280943	0.5825	0.7055	0.3117
report somme	754511			0.2199044	
n-C11	5538	0.00733985	0.00094019	0.00161407	
n-C12	29873	0.03959253	0.00507158	0.00870657	
n-C13	51961	0.06886712	0.00882148	0.01514418	
n-C14	61421	0.08140504	0.01042752	0.01790132	
n-C15	63084	0.08360912	0.01070985	0.01838601	
n-C16	59595	0.07898493	0.01011752	0.01736913	
n-C17	56752	0.07521693	0.00963486	0.01654053	
n-C18	47038	0.06234236	0.0079857	0.01370936	
n-C19	42930	0.05689778	0.00728828	0.01251207	
n-C20	37888	0.05021531	0.00643229	0.01104256	
n-C21	34756	0.04606427	0.00590057	0.01012973	
n-C22	33694	0.04465674	0.00572027	0.00982021	
n-C23	31317	0.04150635	0.00531673	0.00912743	
n-C24	28901	0.03830428	0.00490656	0.00842328	
n-C25	26140	0.03464496	0.00443782	0.00761858	
n-C26	22700	0.03008571	0.00385381	0.00661598	
n-C27	23709	0.031423	0.00402511	0.00691006	
n-C28	18300	0.02425303	0.00310667	0.00533335	
n-C29	19873	0.02633773	0.00337371	0.00579178	
n-C30	13133	0.01740519	0.00222951	0.00382748	
n-C31	12380	0.01640724	0.00210167	0.00360802	
n-C32	9867	0.01307675	0.00167506	0.00287564	
n-C33	10431	0.01382423	0.0017708	0.00304001	
n-C34	8370	0.01109278	0.00142092	0.00243935	
n-C35	4894	0.00648603	0.00083082	0.00142631	
somme	754545	1.00003925			
report		0.12809428		0.2199044	

2546COR1.XLS

25/4-6s		% n-alc/résidu	%résidu	% sat/résidu	% n-alc/sat
B45763	pvt-cor1	0.1507014	0.7445	0.6871	0.2946
report somme	677728	%normalisé		0.2024197	
n-C11	4524	0.00667524	0.00100597	0.0013512	
n-C12	26295	0.03879875	0.00584703	0.00785363	
n-C13	48763	0.07195069	0.01084307	0.01456424	
n-C14	60224	0.08886161	0.01339157	0.01798734	
n-C15	62606	0.09237629	0.01392124	0.01869878	
n-C16	59476	0.08775792	0.01322524	0.01776393	
n-C17	55567	0.08199012	0.01235603	0.01659641	
n-C18	45341	0.06690147	0.01008215	0.01354217	
n-C19	42036	0.06202488	0.00934724	0.01255506	
n-C20	36662	0.05409545	0.00815226	0.01094998	
n-C21	33659	0.04966447	0.00748451	0.01005306	
n-C22	32077	0.0473302	0.00713273	0.00958056	
n-C23	29777	0.04393651	0.00662129	0.00889361	
n-C24	27756	0.04095448	0.0061719	0.00828999	
n-C25	24262	0.03579902	0.00539496	0.00724643	
n-C26	23233	0.03428071	0.00516615	0.00693909	
n-C27	16859	0.02487576	0.00374881	0.00503534	
n-C28	13266	0.0197188	0.00297165	0.00399147	
n-C29	9926	0.01475417	0.00222347	0.00298653	
n-C30	5873	0.00872972	0.00131558	0.00176707	
n-C31	3972	0.00590405	0.00088975	0.00119509	
n-C32	2161	0.00321215	0.00048407	0.0006502	
n-C33	3098	0.00460492	0.00069397	0.00093213	
n-C34	3233	0.00480558	0.00072421	0.00097274	
n-C35	2113	0.0031408	0.00047332	0.00063576	
somme	672759	0.99314377			
report		0.1507014		0.20241966	

2546COR2.XLS

25/4-6s		% n-alc/résidu	% résidu	% sat/résidu	% n-alc/sat
B45764	pvt - cor2	0.1486012	0.6895	0.6968	0.3093
report somme	775638	% normalisé	% n-alc/résidu	0.2155202	
n-C11	8580	0.01106186	0.00164381	0.00238406	
n-C12	37171	0.04792313	0.00712143	0.0103284	
n-C13	59366	0.07653828	0.01137368	0.01649555	
n-C14	68672	0.08853615	0.01315658	0.01908133	
n-C15	69691	0.0898499	0.0133518	0.01936447	
n-C16	65248	0.08412172	0.01250059	0.01812993	
n-C17	62500	0.08057883	0.01197411	0.01736637	
n-C18	52319	0.06745286	0.01002358	0.01453746	
n-C19	48182	0.06211918	0.00923099	0.01338794	
n-C20	42191	0.05439522	0.0080832	0.01172327	
n-C21	39141	0.05046297	0.00749886	0.01087579	
n-C22	36827	0.04747962	0.00705553	0.01023282	
n-C23	35215	0.04540133	0.00674669	0.00978491	
n-C24	32535	0.04194611	0.00623324	0.00904024	
n-C25	28981	0.03736408	0.00555235	0.00805271	
n-C26	24983	0.03220961	0.00478639	0.00694182	
n-C27	20677	0.02665805	0.00396142	0.00574535	
n-C28	15975	0.02059595	0.00306058	0.00443884	
n-C29	11292	0.01455834	0.00216339	0.00313762	
n-C30	6785	0.00874764	0.00129991	0.00188529	
n-C31	4113	0.00530273	0.00078799	0.00114285	
n-C32	2141	0.00276031	0.00041019	0.0005949	
n-C33	2590	0.00333919	0.00049621	0.00071966	
n-C34	463	0.00059693	8.8704E-05	0.00012865	
n-C35	0	0			
somme	775638	1			
report		0.1486012		0.2155202	



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BA-92-2492-1

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EP/S/EXP/GDP/92.014

Pau, April 1992

WELL 25/4-6s (Norway)

Organic geochemical screening and optical study

EP/S/EXP/GDP 92/014

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Tab.1

ORGANIC MATTER PETROGRAPHY

25/4-6S

Maturity assessment

SAMPLE DEPTHS (M)	SAMP TYPE	Ro, %	Ro, % Equiv.	Values Origin
2910.00- 2920.00	DE	.51		PV
3150.00- 3160.00	DE	.55- .60		PV
3270.00- 3280.00	DE		.55	EF
3395.00- 3405.00	DE	.63		PV
3530.00- 3535.00	DE	.50- .60		PV
3575.00- 3580.00	DE		.65- .70	EF
3650.00- 3655.00	DE		.65- .70	EF
3717.40	CA	.68		PV
3718.73	CA	.75		PV
3719.14	CA	.66		PV
3767.18	CA	.71		PV
3767.32	CA	.72		PV
3769.90- 3769.95	CA	.63		PV
3770.16- 3770.17	CA	.66		PV
3784.55- 3784.70	CA	.72		PV
3784.70- 3784.85	CA	.73		PV
3788.45- 3788.50	CA	.74		PV
3802.25- 3802.27	CA	.68		PV
3802.65- 3802.85	CA	.71		PV
3810.20- 3810.25	CA	.68		PV
3820.15- 3820.28	CA	.66		PV
3835.13- 3835.35	CA	.70		PV
3864.07- 3864.30	CA	.80		PV
3864.30- 3864.50	CA	.80		PV
3864.50- 3864.80	CA	.81		PV
3864.80- 3865.22	CA	.80		PV
3866.05- 3866.25	CA	.83		PV
3866.30- 3866.35	CA	.77		PV
3876.70- 3876.75	CA	.77		PV
3880.83- 3881.02	CA	.85		PV
3881.02- 3881.20	CA	.91		PV
3881.20- 3881.38	CA	.87		PV
3881.38- 3881.56	CA	.82		PV
3892.65- 3893.75	CA	.88		PV
3894.25- 3894.70	CA	.80		PV
3894.70- 3895.25	CA	.89		PV
3895.25- 3895.75	CA	.96		PV
3899.50	CA	.84		PV
3899.67	CA	.79		PV
3901.15	CA	.83		PV
3910.00- 3915.00	DE	.87		PV
3950.00- 3955.00	DE	.89		PV
4020.00	DE	.84		PV
4069.50	CA10	.95		PV
4128.80	CA11	.94		PV

"Sample Type" Codes: CA = core; CL = SWC; DE = cuttings; ND = unwashed cuttings

"Origin" Codes.....: PV = vitrinite; PB = bitumen; EF = fluorescence (estimation)

ES = spectral fluorescence; EI = TAI equivalent

TABLE: 2

25/4-6S

DESCRIPTION OF ANALYSED SAMPLES AND ORGANIC CARBON CONTENT

LAB. REF.	SAMPLE TYPE	DEPTHS Metres		IR %	TOC %	IOC %	L I T H O L O G Y
B43589	ND	2910.00	2920.00		.16		MARL LIGHT GREY, SILTY
B43590	ND	3055.00	3065.00		.13		MARL LIGHT GREY, SILTY
B43591	ND	3150.00	3160.00		.20		MARL LIGHT GREY, SILTY
B43592	ND	3270.00	3280.00		.39		MARL LIGHT GREY, SILTY
B43593	ND	3395.00	3405.00		.28		MARL LIGHT GREY, SILTY
B43594	ND	3530.00	3535.00		.42		MARL LIGHT GREY, SILTY
B43505	ND	3565.00	3570.00		3.81		SHALE, BLACK
B43506	ND	3575.00	3580.00		8.55		SHALE, BLACK
B43507	ND	3585.00	3590.00		3.94		SHALE, BLACK
B43508	ND	3600.00	3610.00		3.55		SHALE, BLACK
B43509	ND	3620.00	3625.00		1.92		SHALE, GREY
B43510	ND	3640.00	3645.00		3.28		SHALE, BLACK
B43511	ND	3650.00	3655.00		5.94		SHALE, BLACK
B43512	ND	3660.00	3665.00		4.41		SHALE, BLACK
B43513	ND	3670.00	3675.00		4.43		SHALE, BLACK
B43514	ND	3680.00	3685.00		2.72		SHALE, BLACK
B43515	ND	3690.00	3695.00		4.30		SHALE, BLACK
B43516	ND	3700.00	3705.00		3.64		SHALE, BLACK
B42255	CA01	3712.95			2.82		SHALE, DARK GREY TO BLACK, SILTY, MICROMICACEOUS, OCC. DOLOMITIC
B42256	CA01	3713.80			3.65		SHALE, DARK GREY TO BLACK, SILTY, MICROMICACEOUS, OCC. DOLOMITIC
B42257	CA02	3715.05			2.20		SHALE, DARK GREY TO BLACK, SILTY, MICROMICACEOUS, OCC. DOLOMITIC
B42258	CA02	3717.30			.56		SANDSTONE, VERY FINE/FINE, BROWNISH GREY, MICACEOUS
B42259	CA02	3717.85			.53		SANDSTONE, VERY FINE/FINE, BROWNISH GREY, MICACEOUS
B42260	CA02	3718.00			.44		SANDSTONE, VERY FINE/FINE, BROWNISH GREY, MICACEOUS
B42261	CA02	3718.50			.37		SANDSTONE, VERY FINE/FINE, BROWNISH GREY, MICACEOUS
B42262	CA02	3718.95			.34		SANDSTONE, VERY FINE/FINE, BROWNISH GREY, MICACEOUS
B42263	CA02	3719.40			.30		SANDSTONE, VERY FINE/FINE, BROWNISH GREY, MICACEOUS
B42264	CA02	3719.95			.26		SANDSTONE, VERY FINE/FINE, BROWNISH GREY, MICACEOUS
B42265	CA02	3720.75			.29		SANDSTONE, VERY FINE/FINE, BROWNISH GREY, MICACEOUS
B42266	CA02	3721.30			.31		SANDSTONE, VERY FINE/FINE, BROWNISH GREY, MICACEOUS
B42267	CA02	3721.95			.32		SANDSTONE, VERY FINE/FINE, BROWNISH GREY, MICACEOUS
B42268	CA02	3722.55			.31		SANDSTONE, VERY FINE/FINE, BROWNISH GREY, MICACEOUS
B42269	CA02	3723.00			.24		SANDSTONE, CALCAREOUS CEMENTED
B42270	CA02	3725.00			.12		SANDSTONE, VERY FINE/FINE TO FINE/MEDIUM, BROWNISH GREY, MICACEOUS
B42271	CA02	3725.90			.26		SANDSTONE, VERY FINE/FINE TO FINE/MEDIUM, BROWNISH GREY, MICACEOUS
B42272	CA02	3726.50			.25		SANDSTONE, VERY FINE/FINE TO FINE/MEDIUM, BROWNISH GREY, MICACEOUS
B42273	CA02	3727.30			.29		SANDSTONE, VERY FINE/FINE TO FINE/MEDIUM, BROWNISH GREY, MICACEOUS
B42274	CA02	3728.10			.28		SANDSTONE, VERY FINE/FINE TO FINE/MEDIUM, BROWNISH GREY, MICACEOUS
B42275	CA02	3729.00			.33		SANDSTONE, VERY FINE/FINE TO FINE/MEDIUM, BROWNISH GREY, MICACEOUS
B42276	CA02	3729.95			.34		SANDSTONE, VERY FINE/FINE TO FINE/MEDIUM, BROWNISH GREY, MICACEOUS
B42277	CA02	3730.60			.41		SANDSTONE, VERY FINE/FINE TO FINE/MEDIUM, BROWNISH GREY, MICACEOUS
B42278	CA02	3731.35			.34		SANDSTONE, VERY FINE/FINE TO FINE/MEDIUM, BROWNISH GREY, MICACEOUS
B42279	CA02	3732.50			.42		SANDSTONE, VERY FINE/FINE TO FINE/MEDIUM, BROWNISH GREY, MICACEOUS
B42280	CA02	3733.00			.30		SANDSTONE, VERY FINE/FINE TO FINE/MEDIUM, BROWNISH GREY, MICACEOUS
B42281	CA03	3734.35			.25		SANDSTONE, VERY FINE/FINE TO FINE/MEDIUM, BROWNISH GREY, MICACEOUS

TABLE: 2 (Continued) 25/4-6S

DESCRIPTION OF ANALYSED SAMPLES AND ORGANIC CARBON CONTENT

LAB. REF.	SAMPLE TYPE	DEPTHS Metres	IR %	TOC %	IOC %	L I T H O L O G Y
B42282	CA03	3734.95		.28		SANDSTONE, VERY FINE/FINE TO FINE/MEDIUM, BROWNISH GREY, MICACEOUS
B42283	CA03	3735.70		.26		SANDSTONE, VERY FINE/FINE TO FINE/MEDIUM, BROWNISH GREY, MICACEOUS
B42284	CA03	3736.40		.23		SANDSTONE, VERY FINE/FINE TO FINE/MEDIUM, BROWNISH GREY, MICACEOUS
B42285	CA03	3737.30		.11		SANDSTONE, CALCAREOUS, TIGHT, WHITISH GREY
B42286	CA03	3738.90		.27		SANDSTONE, VERY FINE/FINE TO FINE/MEDIUM, BROWNISH GREY, MICACEOUS
B42287	CA03	3739.90		.23		SANDSTONE, VERY FINE/FINE TO FINE/MEDIUM, BROWNISH GREY, MICACEOUS
B42288	CA03	3740.85		.34		SANDSTONE, VERY FINE/FINE TO FINE/MEDIUM, BROWNISH GREY, MICACEOUS
B42289	CA03	3741.85		.31		SANDSTONE, VERY FINE/FINE TO FINE/MEDIUM, BROWNISH GREY, MICACEOUS
B42290	CA03	3743.00		.34		SANDSTONE, VERY FINE/FINE TO FINE/MEDIUM, BROWNISH GREY, MICACEOUS
B42291	CA03	3743.85		.29		SANDSTONE, VERY FINE/FINE TO FINE/MEDIUM, BROWNISH GREY, MICACEOUS
B42292	CA03	3744.90		.56		SANDSTONE, VERY FINE/FINE TO FINE/MEDIUM, BROWNISH GREY, MICACEOUS
B42293	CA03	3745.80		.05		SANDSTONE, CALCAREOUS CEMENTED
B42294	CA04	3746.75		.20		SANDSTONE, CALCAREOUS CEMENTED
B42295	CA04	3747.80		.30		SANDSTONE, VERY FINE/FINE TO FINE/MEDIUM, BROWNISH GREY, MICACEOUS
B42296	CA04	3748.90		.38		SANDSTONE, VERY FINE/FINE TO FINE/MEDIUM, BROWNISH GREY, MICACEOUS
B42297	CA04	3750.00		.39		SANDSTONE, VERY FINE/FINE TO FINE/MEDIUM, BROWNISH GREY, MICACEOUS
B42298	CA04	3750.80		.42		SANDSTONE, VERY FINE/FINE TO FINE/MEDIUM, BROWNISH GREY, MICACEOUS
B42299	CA04	3751.55		.37		SANDSTONE, VERY FINE/FINE TO FINE/MEDIUM, BROWNISH GREY, MICACEOUS
B42300	CA04	3752.75		.37		SANDSTONE, VERY FINE/FINE TO FINE/MEDIUM, BROWNISH GREY, MICACEOUS
B42302	CA04	3753.40		.38		SANDSTONE, VERY FINE/FINE TO FINE/MEDIUM, BROWNISH GREY, MICACEOUS
B42301	CA04	3754.40		.53		SANDSTONE, VERY FINE/FINE TO FINE/MEDIUM, BROWNISH GREY, MICACEOUS
B42303	CA04	3754.85		31.00		SHALE, BLACK, SILTY, MICROMICACEOUS
B42304	CA04	3755.15		.45		SANDSTONE, FINE/MEDIUM TO MEDIUM/COARSE, MICACEOUS
B42305	CA04	3756.10		.34		SANDSTONE, FINE/MEDIUM TO MEDIUM/COARSE, MICACEOUS
B42306	CA04	3757.45		.39		SANDSTONE, FINE/MEDIUM TO MEDIUM/COARSE, MICACEOUS
B42307	CA04	3758.40		.36		SANDSTONE, FINE/MEDIUM TO MEDIUM/COARSE, MICACEOUS
B42308	CA04	3759.35		.35		SANDSTONE, FINE/MEDIUM TO MEDIUM/COARSE, MICACEOUS
B42309	CA04	3760.25		.39		SANDSTONE, FINE/MEDIUM TO MEDIUM/COARSE, MICACEOUS
B42310	CA04	3761.70		.36		SANDSTONE, FINE/MEDIUM TO MEDIUM/COARSE, MICACEOUS
B42311	CA04	3762.60		.31		SANDSTONE, MEDIUM/COARSE, DARK GREY, MICACEOUS
B42312	CA04	3763.95		.33		SANDSTONE, MEDIUM/COARSE, DARK GREY, MICACEOUS
B42313	CA04	3764.65		.33		SANDSTONE, MEDIUM/COARSE, DARK GREY, MICACEOUS
B42314	CA04	3764.85		.32		SANDSTONE, MEDIUM/COARSE, DARK GREY, MICACEOUS
B42315	CA04	3765.65		.35		SANDSTONE, MEDIUM/COARSE, DARK GREY, MICACEOUS
B42316	CA04	3766.55		.42		SANDSTONE, MEDIUM/COARSE, DARK GREY, MICACEOUS
B42317	CA04	3766.70		#		SANDSTONE, MEDIUM/COARSE, DARK GREY, MICACEOUS
B42318	CA04	3767.45		.42		SANDSTONE, MEDIUM/COARSE, DARK GREY, MICACEOUS
B42319	CA04	3768.45		.55		SANDSTONE, MEDIUM/COARSE, DARK GREY, MICACEOUS
B42320	CA04	3769.05		.67		SANDSTONE, MEDIUM/COARSE, DARK GREY, MICACEOUS
B41970	CA04	3769.90	3769.95	62.20		COAL, SLIGHTLY STRATIFIED, MASSIVE
B42321	CA04	3770.25		16.90		SHALE, BLACK, SILTY, MICROMICACEOUS
B42322	CA04	3771.30		.83		SANDSTONE, COARSE, GREY, MICACEOUS
B42323	CA04	3772.80		.35		SANDSTONE, COARSE, GREY, MICACEOUS
B42324	CA04	3773.70		.38		SANDSTONE, COARSE, GREY, MICACEOUS
B42325	CA05	3774.20		.32		SANDSTONE, COARSE, GREY, MICACEOUS

TABLE: 2 (Continued) 25/4-6S

DESCRIPTION OF ANALYSED SAMPLES AND ORGANIC CARBON CONTENT

LAB. REF.	SAMPLE TYPE	DEPTHS Metres	IR %	TOC %	IOC %	L I T H O L O G Y
B42326	CA05	3775.65		.10		SANDSTONE, COARSE, GREY, MICACEOUS
B42327	CA05	3776.85		.37		SANDSTONE, COARSE, GREY, MICACEOUS
B42328	CA05	3777.70		.32		SANDSTONE, COARSE, GREY, MICACEOUS
B42329	CA05	3778.80		.35		SANDSTONE, COARSE, GREY, MICACEOUS
B42330	CA05	3779.75		.36		SANDSTONE, COARSE, GREY, MICACEOUS
B42331	CA05	3780.80		.30		SANDSTONE, COARSE, GREY, MICACEOUS
B42332	CA05	3781.90		.31		SANDSTONE, COARSE, GREY, MICACEOUS
B42333	CA05	3782.85		.38		SANDSTONE, COARSE, GREY, MICACEOUS
B42334	CA05	3783.80		.40		SANDSTONE, COARSE, GREY, MICACEOUS
B42335	CA05	3783.95		7.80		SHALE, BLACK, HARD, SILTY, MICROMICACEOUS
B41972	CA05	3784.70 3784.85		83.80		COAL, TIGHT, HOMOGENEOUS
B42336	CA05	3785.75		.54		SANDSTONE, FINE/MEDIUM, VERY MICACEOUS, GREY
B42337	CA05	3787.00		.31		SANDSTONE, FINE/MEDIUM, VERY MICACEOUS, GREY
B41973	CA05	3788.45 3788.50		84.50		COAL, TIGHT, SLIGHTLY STRATIFIED
B42338	CA05	3788.60		1.95		SHALE, DARK GREY TO BLACK, SILTY, MICROMICACEOUS
B42339	CA05	3789.00		.30		SANDSTONE, VERY FINE/FINE, MICROMICACEOUS, GREY
B42340	CA05	3790.05		.28		SANDSTONE, FINE/MEDIUM, VERY MICACEOUS, GREY
B42341	CA06	3791.90		2.39		SHALE, DARK GREY, SILTY, HARD, DENSE, MICROMICACEOUS
B42342	CA06	3792.75		.36		SANDSTONE, MEDIUM/COARSE, GREY, OCC. SHALY, MICACEOUS
B42343	CA06	3793.55		.46		SANDSTONE, COARSE, GREY
B42344	CA06	3794.00		.34		SANDSTONE, MEDIUM/COARSE, DARK GREY, MICACEOUS
B42345	CA06	3794.80		.25		SANDSTONE, MEDIUM/COARSE, GREY/BEIGE
B42346	CA06	3795.80		.22		SANDSTONE, MEDIUM/COARSE, GREY/BEIGE
B42347	CA06	3796.75		.22		SANDSTONE, MEDIUM/COARSE, GREY/BEIGE
B42348	CA06	3797.45		.20		SANDSTONE, MEDIUM/COARSE, GREY/BEIGE
B42349	CA06	3798.45		.29		SANDSTONE, MEDIUM/COARSE, GREY/BEIGE
B42350	CA06	3799.60		.34		SANDSTONE, MEDIUM/COARSE, GREY/BEIGE
B42351	CA06	3800.60		.44		SANDSTONE, MEDIUM/COARSE, GREY/BEIGE
B42352	CA06	3801.75		.93		SANDSTONE, MEDIUM/COARSE, GREY/BEIGE
B42353	CA06	3802.45		53.00		SHALE, BLACK, FISSILE, MICROMICACEOUS
B41975	CA06	3802.65 3802.85		78.80		COAL, MASSIVE, HOMOGENEOUS, GLOSSY
B42354	CA06	3803.20		.55		SANDSTONE, MEDIUM/COARSE, GREY/DARK GREY
B42355	CA06	3804.00		.35		SANDSTONE, MEDIUM/COARSE, GREY/DARK GREY
B42356	CA06	3804.70		.93		SANDSTONE, MEDIUM/COARSE, GREY/DARK GREY
B42357	CA06	3805.55		.32		SANDSTONE, MEDIUM/COARSE, GREY/DARK GREY
B42358	CA06	3806.30		.37		SANDSTONE, MEDIUM/COARSE, GREY/DARK GREY
B42359	CA06	3807.65		.36		SANDSTONE, MEDIUM/COARSE, GREY/DARK GREY
B42360	CA06	3808.65		.32		SANDSTONE, MEDIUM/COARSE, GREY/DARK GREY
B42361	CA06	3809.50		.61		SANDSTONE, MEDIUM/COARSE, GREY/DARK GREY
B42362	CA06	3811.10		.33		SANDSTONE, MEDIUM/COARSE, GREY/DARK GREY
B42363	CA06	3812.20		.27		SANDSTONE, MEDIUM/COARSE, GREY/DARK GREY
B42364	CA06	3813.60		.21		SANDSTONE, MEDIUM/COARSE, GREY/DARK GREY
B42365	CA06	3814.25		.35		SANDSTONE, MEDIUM/COARSE, GREY/DARK GREY
B42366	CA06	3815.45		.20		SANDSTONE, MEDIUM/COARSE, GREY/DARK GREY
B42367	CA06	3816.45		.29		SANDSTONE, MEDIUM/COARSE, GREY/DARK GREY

TABLE: 2 (Continued) 25/4-6S

DESCRIPTION OF ANALYSED SAMPLES AND ORGANIC CARBON CONTENT

LAB. REF.	SAMPLE TYPE	DEPTHS Metres	IR %	TOC %	IOC %	L I T H O L O G Y
B42368	CA06	3817.90		.38		SANDSTONE, MEDIUM/COARSE, GREY/DARK GREY
B42369	CA06	3818.45		.39		SANDSTONE, MEDIUM/COARSE, GREY/DARK GREY
B42370	CA07	3819.45		.32		SANDSTONE, MEDIUM/COARSE, GREY/DARK GREY
B42371	CA07	3820.90		.42		SANDSTONE, MEDIUM/COARSE, GREY/DARK GREY
B42372	CA07	3821.60		.27		SANDSTONE, MEDIUM/COARSE, GREY/DARK GREY
B42373	CA07	3822.85		.34		SANDSTONE, MEDIUM/COARSE, GREY/DARK GREY
B42374	CA07	3823.95		.60		SANDSTONE, MEDIUM/COARSE, GREY/DARK GREY
B42375	CA07	3824.65		.66		SANDSTONE, MEDIUM/COARSE, GREY/DARK GREY
B42376	CA07	3825.85		.45		SANDSTONE, MEDIUM/COARSE, GREY/DARK GREY
B42377	CA07	3825.95		.28		SANDSTONE, MEDIUM/COARSE, GREY/DARK GREY
B42378	CA07	3826.40		.25		SANDSTONE, MEDIUM/COARSE, GREY/DARK GREY
B42379	CA07	3827.40		.29		SANDSTONE, MEDIUM/COARSE, GREY/DARK GREY
B42380	CA07	3827.80		.15		SANDSTONE, MEDIUM/COARSE, GREY/DARK GREY
B42381	CA07	3828.60		.14		SANDSTONE, MEDIUM/COARSE, GREY/DARK GREY
B42382	CA07	3829.70		.16		SANDSTONE, MEDIUM/COARSE, GREY/DARK GREY
B42383	CA07	3830.35		.14		SANDSTONE, MEDIUM/COARSE, GREY/DARK GREY
B42384	CA07	3831.45		.28		SANDSTONE, MEDIUM/COARSE, GREY/DARK GREY
B42385	CA07	3832.65		.34		SANDSTONE, MEDIUM/COARSE, GREY/DARK GREY
B42386	CA07	3834.10		5.12		SHALE, DARK GREY, SILTY, DENSE, VERY MICROMICACEOUS
B41978	CA07	3835.13	3835.35	81.30		COAL, BRITTLE, GLOSSY
B42387	CA07	3835.80		31.50		SHALE, BLACK, LAMINATED, FISSILE
B42388	CA07	3836.65		.28		SANDSTONE, VERY FINE/FINE, TO FINE/MEDIUM, MICACEOUS
B42389	CA07	3837.85		.19		SANDSTONE, VERY FINE/FINE, TO FINE/MEDIUM, MICACEOUS
B42390	CA07	3838.70		.17		SANDSTONE, VERY FINE/FINE, TO FINE/MEDIUM, MICACEOUS
B42391	CA07	3839.60		.21		SANDSTONE, MEDIUM/COARSE, MICACEOUS
B42392	CA07	3841.20		.19		SANDSTONE, MEDIUM/COARSE, MICACEOUS
B42393	CA07	3843.90		.20		SANDSTONE, MEDIUM/COARSE, MICACEOUS
B42395	CA07	3844.90		.14		SANDSTONE, MEDIUM/COARSE, MICACEOUS
B42394	CA07	3845.90		.09		SANDSTONE, MEDIUM/COARSE, MICACEOUS
B42396	CA08	3846.75		.10		SANDSTONE, MEDIUM/COARSE, MICACEOUS
B42397	CA08	3847.30		.09		SANDSTONE, MEDIUM/COARSE, MICACEOUS
B42398	CA08	3848.15		.10		SANDSTONE, MEDIUM/COARSE, MICACEOUS
B42399	CA08	3849.20		.15		SANDSTONE, MEDIUM/COARSE, MICACEOUS
B42400	CA08	3850.55		.27		SANDSTONE, MEDIUM/COARSE, MICACEOUS
B42401	CA08	3853.35		8.90		SHALE, BLACK, LAMINATED, SILTY, HARD, MICROMICACEOUS
B42402	CA08	3854.25		.12		SANDSTONE, VERY FINE/FINE, GREY
B42403	CA08	3858.15		.30		SANDSTONE, VERY FINE/FINE, GREY
B42404	CA08	3863.50		6.24		SHALE, BLACK, LAMINATED, SILTY, HARD, MICROMICACEOUS
B41979	CA08	3864.07	3864.30	81.40		COAL, MASSIVE, COMPACT
B41982	CA08	3864.80	3865.22	78.00		COAL, BRITTLE, GLOSSY CLEAVAGE
B41983	CA08	3866.05	3866.25	82.00		COAL, COMPACT
B42405	CA08	3866.95		.21		SANDSTONE, VERY FINE/FINE, GREY/WHITISH GREY, VERY MICACEOUS
B42406	CA08	3868.20		.08		SANDSTONE, VERY FINE/FINE, GREY/WHITISH GREY, VERY MICACEOUS
B42407	CA08	3869.15		.13		SANDSTONE, VERY FINE/FINE, GREY/WHITISH GREY, VERY MICACEOUS
B42408	CA08	3870.25		.09		SANDSTONE, VERY FINE/FINE, GREY/WHITISH GREY, VERY MICACEOUS

TABLE: 2 (Continued) 25/4-6S

DESCRIPTION OF ANALYSED SAMPLES AND ORGANIC CARBON CONTENT

LAB. REF.	SAMPLE TYPE	DEPTHS Metres	IR %	TOC %	IOC %	L I T H O L O G Y
B42409	CA08	3872.15		.29		SANDSTONE, VERY FINE/FINE, GREY, OCC. SHALY LAMINATIONS, MICROMICACEOUS
B42410	CA09	3874.20		3.44		SHALE, DARK GREY
B42411	CA09	3876.40		5.10		SHALE, BLACK, LAMINATED, SILTY, HARD, MICROMICACEOUS
B41988	CA09	3881.20	3881.38	81.80		COAL, COMPACT, SLIGHTLY STRATIFIED
B42412	CA09	3882.00		.21		SANDSTONE, VERY FINE/FINE, OCC. SHALY, MICACEOUS
B42413	CA09	3885.40		.12		SANDSTONE, VERY FINE/FINE, OCC. SHALY, MICACEOUS
B42414	CA09	3886.20		.15		SANDSTONE, VERY FINE/FINE, OCC. SHALY, MICACEOUS
B41990	CA09	3892.65	3893.75	71.80		COAL, COMPACT, HOMOGENEOUS
B41993	CA09	3895.25	3895.75	79.60		COAL, SLIGHTLY STATIFIED
B42415	CA09	3896.90		30.00		SHALE, BLACK, COALY
B42416	CA09	3898.20		20.60		SHALE, BLACK, LAMINATED, SILTY, HARD, MICROMICACEOUS
B42417	CA09	3899.20		3.23		SHALE, BLACK, LAMINATED, SILTY, HARD, MICROMICACEOUS
B42418	CA09	3900.40		9.25		SHALE, BLACK, COALY, LAMINATED, MICROMICACEOUS
B43517	ND	3930.00	3935.00	1.79		SHALE, BLACK
B43518	ND	3940.00	3945.00	2.33		SHALE, BLACK
B43519	ND	3950.00	3955.00	3.23		SHALE, BLACK
B43520	ND	3960.00	3965.00	1.63		SHALE, GREY, SILTY
B43588	ND	4020.00		#		
B44178	CA10	4061.85		.89		SHALE, DARK GREY/BLACK
B44179	CA10	4068.70		.81		SHALE, DARK GREY/BLACK
B44180	CA10	4069.50		.97		SHALE, DARK GREY/BLACK
B44181	CA11	4124.80		.76		SHALE, DARK GREY/BLACK
B44182	CA11	4127.40		1.44		SHALE, DARK GREY/BLACK
B44183	CA11	4128.80		1.01		SHALE, DARK GREY/BLACK

TABLE: 3

25/4-6S

MINERALOGICAL COMPOSITION BY X-RAY DIFFRACTION

LAB. REF.	SAMPLE TYPE	DEPTHS Metres		IR %	TOC %	IOC %	ALB %	ORT %	ANH %	QRZ %	CAL %	DOL %	SID %	ND %
B43589	ND	2910.00	2920.00		.16									
B43590	ND	3055.00	3065.00		.13									
B43591	ND	3150.00	3160.00		.20									
B43592	ND	3270.00	3280.00		.39									
B43593	ND	3395.00	3405.00		.28									
B43594	ND	3530.00	3535.00		.42									
B43505	ND	3565.00	3570.00		3.81		0	0	0	24	13	2	0	61
B43506	ND	3575.00	3580.00		8.55		1	0	0	30	1	2	0	66
B43507	ND	3585.00	3590.00		3.94		1	0	0	28	0	1	0	70
B43508	ND	3600.00	3610.00		3.55		0	0	0	27	1	3	0	69
B43509	ND	3620.00	3625.00		1.92		0	0	0	12	30	4	3	51
B43510	ND	3640.00	3645.00		3.28		2	0	0	23	1	3	1	70
B43511	ND	3650.00	3655.00		5.94		1	0	0	19	0	1	1	78
B43512	ND	3660.00	3665.00		4.41		3	0	0	20	0	1	1	75
B43513	ND	3670.00	3675.00		4.43		3	0	0	24	1	2	0	70
B43514	ND	3680.00	3685.00		2.72		1	0	0	23	1	1	1	73
B43515	ND	3690.00	3695.00		4.30		2	0	0	35	1	0	2	60
B43516	ND	3700.00	3705.00		3.64		2	0	0	27	0	0	5	66
B42255	CA01	3712.95			2.82		1	0	1	24	0	0	1	73
B42256	CA01	3713.80			3.65		0	0	2	17	0	0	1	80
B42257	CA02	3715.05			2.20		1	1	1	19	0	0	1	77
B42258	CA02	3717.30			.56		2	0	1	52	0	0	9	36
B42259	CA02	3717.85			.53		2	1	0	77	0	0	0	20
B42260	CA02	3718.00			.44		1	1	0	70	0	0	0	28
B42261	CA02	3718.50			.37		9	1	0	75	0	0	0	15
B42262	CA02	3718.95			.34		3	2	0	71	0	0	0	24
B42263	CA02	3719.40			.30		3	3	0	75	0	0	0	19
B42264	CA02	3719.95			.26		3	5	1	63	0	0	1	27
B42265	CA02	3720.75			.29		3	3	0	66	0	0	1	27
B42266	CA02	3721.30			.31		2	2	1	59	0	0	2	34
B42267	CA02	3721.95			.32		2	3	1	65	0	0	1	28
B42268	CA02	3722.55			.31		4	2	1	74	0	7	0	12
B42269	CA02	3723.00			.24		7	2	0	54	0	26	0	11
B42270	CA02	3725.00			.12		1	0	0	54	0	45	0	0
B42271	CA02	3725.90			.26		3	5	0	74	0	0	0	18
B42272	CA02	3726.50			.25		1	3	0	71	0	0	0	25
B42273	CA02	3727.30			.29		3	3	1	73	0	0	1	19
B42274	CA02	3728.10			.28		3	2	1	67	0	0	1	26
B42275	CA02	3729.00			.33		3	3	1	70	0	0	1	22
B42276	CA02	3729.95			.34		2	3	1	58	0	0	2	34
B42277	CA02	3730.60			.41		2	11	1	64	0	0	1	21
B42278	CA02	3731.35			.34		3	3	1	79	0	0	0	14
B42279	CA02	3732.50			.42		4	5	1	62	0	0	1	27
B42280	CA02	3733.00			.30		3	3	0	63	0	0	1	30
B42281	CA03	3734.35			.25		2	2	1	64	0	0	2	29

TABLE: 3

(Continued)

25/4-6S

MINERALOGICAL COMPOSITION BY X-RAY DIFFRACTION

LAB. REF.	SAMPLE TYPE	DEPTHS Metres	IR %	TOC %	IOC %	ALB %	ORT %	ANH %	QRZ %	CAL %	DOL %	SID %	ND %
B42282	CA03	3734.95		.28		3	2	1	69	0	0	1	24
B42283	CA03	3735.70		.26		2	2	0	70	0	0	3	23
B42284	CA03	3736.40		.23		3	3	1	73	0	0	1	19
B42285	CA03	3737.30		.11		2	1	1	35	0	45	5	11
B42286	CA03	3738.90		.27		4	1	2	73	0	0	3	17
B42287	CA03	3739.90		.23		1	2	2	63	0	1	3	28
B42288	CA03	3740.85		.34		1	4	1	52	0	26	4	12
B42289	CA03	3741.85		.31		2	1	1	56	0	24	2	14
B42290	CA03	3743.00		.34		4	1	1	65	0	1	4	24
B42291	CA03	3743.85		.29		3	3	1	48	0	35	2	8
B42292	CA03	3744.90		.56		1	2	0	64	0	0	0	33
B42293	CA03	3745.80		.05		5	2	1	50	0	42	1	0
B42294	CA04	3746.75		.20		1	2	0	81	0	0	1	15
B42295	CA04	3747.80		.30		2	2	0	71	0	0	2	23
B42296	CA04	3748.90		.38		1	2	0	60	0	1	3	33
B42297	CA04	3750.00		.39		0	2	0	72	0	0	1	25
B42298	CA04	3750.80		.42		4	3	0	57	0	0	2	34
B42299	CA04	3751.55		.37		2	3	0	67	0	0	3	25
B42300	CA04	3752.75		.37		5	3	0	3	0	0	0	89
B42302	CA04	3753.40		.38		8	4	0	79	0	0	0	9
B42301	CA04	3754.40		.53		1	2	0	80	0	1	0	16
B42303	CA04	3754.85		31.00		2	1	0	5	0	0	22	70
B42304	CA04	3755.15		.45		2	3	0	71	0	0	0	24
B42305	CA04	3756.10		.34		1	2	0	85	0	0	0	12
B42306	CA04	3757.45		.39		3	3	0	77	0	0	0	17
B42307	CA04	3758.40		.36		2	2	0	86	0	0	0	10
B42308	CA04	3759.35		.35		5	3	0	72	0	0	1	19
B42309	CA04	3760.25		.39		3	5	0	74	0	0	0	18
B42310	CA04	3761.70		.36		2	4	0	79	0	0	0	15
B42311	CA04	3762.60		.31		2	3	0	94	0	0	0	1
B42312	CA04	3763.95		.33		1	3	0	81	1	0	0	14
B42313	CA04	3764.65		.33		1	2	0	81	0	0	0	16
B42314	CA04	3764.85		.32		2	3	1	80	0	0	0	14
B42315	CA04	3765.65		.35		2	4	0	78	0	0	0	16
B42316	CA04	3766.55		.42		2	2	0	82	0	0	0	14
B42317	CA04	3766.70		#									
B42318	CA04	3767.45		.42		2	2	1	82	0	1	0	12
B42319	CA04	3768.45		.55		2	2	0	74	0	0	0	22
B42320	CA04	3769.05		.67		2	2	0	59	0	0	0	37
B41970	CA04	3769.90	3769.95	62.20		0	0	0	0	3	0	0	97
B42321	CA04	3770.25		16.90		2	0	0	5	0	1	1	91
B42322	CA04	3771.30		.83		2	4	1	62	0	0	1	30
B42323	CA04	3772.80		.35		2	3	1	82	1	1	0	10
B42324	CA04	3773.70		.38		2	2	0	76	0	0	0	20
B42325	CA05	3774.20		.32		4	5	1	50	0	0	2	38

TABLE: 3 (Continued) 25/4-6S

MINERALOGICAL COMPOSITION BY X-RAY DIFFRACTION

LAB. REF.	SAMPLE TYPE	DEPTHS Metres	IR %	TOC %	IOC %	ALB %	ORT %	ANH %	QRZ %	CAL %	DOL %	SID %	ND %
B42326	CA05	3775.65		.10		5	3	1	32	35	4	3	17
B42327	CA05	3776.85		.37		2	2	1	75	0	1	1	18
B42328	CA05	3777.70		.32		3	2	0	75	0	0	0	20
B42329	CA05	3778.80		.35		2	5	1	71	0	0	2	19
B42330	CA05	3779.75		.36		2	3	0	76	1	0	0	18
B42331	CA05	3780.80		.30		4	3	1	75	0	0	1	16
B42332	CA05	3781.90		.31		2	2	1	77	0	0	1	17
B42333	CA05	3782.85		.38		0	3	1	79	0	0	0	17
B42334	CA05	3783.80		.40		2	2	1	87	0	0	0	8
B42335	CA05	3783.95		7.80		2	1	0	9	0	0	0	88
B41972	CA05	3784.70	3784.85	83.80		#	#	#	#	#	#	#	
B42336	CA05	3785.75		.54		2	0	1	76	0	1	1	19
B42337	CA05	3787.00		.31		1	0	0	82	0	3	0	14
B41973	CA05	3788.45	3788.50	84.50		0	0	0	0	0	0	0	
B42338	CA05	3788.60		1.95		6	0	2	28	0	1	1	62
B42339	CA05	3789.00		.30		1	2	1	64	0	1	1	30
B42340	CA05	3790.05		.28		2	0	0	76	0	1	1	20
B42341	CA06	3791.90		2.39		3	1	1	14	0	0	4	77
B42342	CA06	3792.75		.36		1	1	0	92	0	1	0	5
B42343	CA06	3793.55		.46		3	2	0	83	0	1	0	11
B42344	CA06	3794.00		.34		1	5	0	93	0	0	0	1
B42345	CA06	3794.80		.25		2	1	0	85	0	1	0	11
B42346	CA06	3795.80		.22		3	3	1	77	0	0	0	16
B42347	CA06	3796.75		.22		5	2	1	84	0	0	0	8
B42348	CA06	3797.45		.20		7	3	0	81	0	0	0	9
B42349	CA06	3798.45		.29		4	3	0	88	0	0	0	5
B42350	CA06	3799.60		.34		2	1	0	92	0	0	0	5
B42351	CA06	3800.60		.44		2	1	1	89	0	0	0	7
B42352	CA06	3801.75		.93		7	2	0	72	0	0	7	12
B42353	CA06	3802.45		53.00		0	1	4	7	0	0	0	88
B41975	CA06	3802.65	3802.85	78.80		0	0	0	1	0	0	0	99
B42354	CA06	3803.20		.55		4	4	0	80	0	0	4	8
B42355	CA06	3804.00		.35		1	1	0	89	0	0	1	8
B42356	CA06	3804.70		.93		3	1	0	86	0	0	0	10
B42357	CA06	3805.55		.32		1	6	0	52	0	1	1	39
B42358	CA06	3806.30		.37		3	3	0	83	0	0	0	11
B42359	CA06	3807.65		.36		1	3	0	90	0	0	0	6
B42360	CA06	3808.65		.32		1	2	0	86	3	0	0	8
B42361	CA06	3809.50		.61		5	2	1	73	0	1	4	14
B42362	CA06	3811.10		.33		7	2	1	81	0	1	0	8
B42363	CA06	3812.20		.27		2	2	0	83	0	0	0	13
B42364	CA06	3813.60		.21		4	3	0	76	0	0	1	16
B42365	CA06	3814.25		.35		8	3	0	74	0	0	2	13
B42366	CA06	3815.45		.20		1	3	0	75	0	0	2	19
B42367	CA06	3816.45		.29		2	2	1	80	0	0	1	14

TABLE: 3

(Continued)

25/4-6S

MINERALOGICAL COMPOSITION BY X-RAY DIFFRACTION

LAB. REF.	SAMPLE TYPE	DEPTHS Metres	IR %	TOC %	IOC %	ALB %	ORT %	ANH %	QRZ %	CAL %	DOL %	SID %	ND %
B42368	CA06	3817.90		.38		3	1	0	81	0	0	2	13
B42369	CA06	3818.45		.39		2	1	0	87	0	0	0	10
B42370	CA07	3819.45		.32		2	2	0	81	0	0	0	15
B42371	CA07	3820.90		.42		8	2	0	86	0	0	0	4
B42372	CA07	3821.60		.27		3	2	1	72	0	1	0	21
B42373	CA07	3822.85		.34		2	2	0	63	0	0	1	32
B42374	CA07	3823.95		.60		3	1	0	86	0	1	0	9
B42375	CA07	3824.65		.66		2	2	0	90	0	0	0	6
B42376	CA07	3825.85		.45		4	2	0	81	0	0	0	13
B42377	CA07	3825.95		.28		2	2	0	82	0	0	0	14
B42378	CA07	3826.40		.25		1	3	0	82	0	0	0	14
B42379	CA07	3827.40		.29		3	2	1	89	0	0	0	5
B42380	CA07	3827.80		.15		7	2	0	79	0	0	1	11
B42381	CA07	3828.60		.14		3	2	1	70	0	0	1	23
B42382	CA07	3829.70		.16		4	1	1	83	0	0	1	10
B42383	CA07	3830.35		.14		4	1	0	85	0	0	0	10
B42384	CA07	3831.45		.28		2	4	1	41	0	1	0	51
B42385	CA07	3832.65		.34		1	1	1	27	0	0	7	63
B42386	CA07	3834.10		5.12		1	1	2	16	0	0	1	79
B41978	CA07	3835.13	3835.35	81.30		0	0	0	0	0	0	0	
B42387	CA07	3835.80		31.50		1	1	1	10	0	0	3	84
B42388	CA07	3836.65		.28		1	2	1	69	0	0	0	27
B42389	CA07	3837.85		.19		2	1	0	78	0	0	0	19
B42390	CA07	3838.70		.17		2	1	0	82	0	0	0	15
B42391	CA07	3839.60		.21		4	1	0	88	0	0	0	7
B42392	CA07	3841.20		.19		5	2	0	78	0	0	0	15
B42393	CA07	3843.90		.20		3	1	1	70	0	1	1	23
B42395	CA07	3844.90		.14		4	2	0	80	0	0	1	13
B42394	CA07	3845.90		.09		1	2	0	48	0	0	1	48
B42396	CA08	3846.75		.10		4	2	0	88	0	0	0	6
B42397	CA08	3847.30		.09		2	1	0	90	0	0	0	7
B42398	CA08	3848.15		.10		2	1	0	92	0	0	0	5
B42399	CA08	3849.20		.15		1	2	0	90	0	0	0	7
B42400	CA08	3850.55		.27		1	1	0	84	0	0	0	14
B42401	CA08	3853.35		8.90		2	0	2	16	0	0	2	78
B42402	CA08	3854.25		.12		6	1	1	54	17	0	1	20
B42403	CA08	3858.15		.30		6	2	0	66	0	0	0	26
B42404	CA08	3863.50		6.24		2	0	0	14	0	0	1	83
B41979	CA08	3864.07	3864.30	81.40		0	0	0	2	0	0	0	98
B41982	CA08	3864.80	3865.22	78.00		0	0	0	2	0	0	0	98
B41983	CA08	3866.05	3866.25	82.00		0	0	0	0	0	0	0	
B42405	CA08	3866.95		.21		1	0	0	83	0	0	0	16
B42406	CA08	3868.20		.08		2	0	0	87	0	0	0	11
B42407	CA08	3869.15		.13		0	0	1	68	0	0	1	30
B42408	CA08	3870.25		.09		3	0	1	45	0	0	11	40

TABLE: 3

(Continued)

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MINERALOGICAL COMPOSITION BY X-RAY DIFFRACTION

LAB. REF.	SAMPLE TYPE	DEPTHS Metres	IR %	TOC %	IOC %	ALB %	ORT %	ANH %	QRZ %	CAL %	DOL %	SID %	ND %
B42409	CA08	3872.15		.29		4	0	1	48	0	0	4	43
B42410	CA09	3874.20		3.44		1	1	2	27	0	1	3	65
B42411	CA09	3876.40		5.10		6	0	2	25	0	1	1	65
B41988	CA09	3881.20	3881.38	81.80		0	0	0	3	0	0	0	97
B42412	CA09	3882.00		.21		2	0	0	93	0	0	0	5
B42413	CA09	3885.40		.12		2	1	1	62	0	0	1	33
B42414	CA09	3886.20		.15		2	1	0	43	0	0	23	31
B41990	CA09	3892.65	3893.75	71.80		0	0	0	12	0	0	0	88
B41993	CA09	3895.25	3895.75	79.60		0	0	0	2	0	0	0	98
B42415	CA09	3896.90		30.00		0	0	0	7	0	0	0	93
B42416	CA09	3898.20		20.60		0	0	0	19	0	0	0	81
B42417	CA09	3899.20		3.23		2	1	0	37	0	0	0	60
B42418	CA09	3900.40		9.25		1	0	0	40	0	0	1	58
B43517	ND	3930.00	3935.00	1.79		1	0	0	25	1	3	5	65
B43518	ND	3940.00	3945.00	2.33		2	0	0	19	0	1	2	76
B43519	ND	3950.00	3955.00	3.23		2	0	0	25	1	0	3	69
B43520	ND	3960.00	3965.00	1.63		3	0	0	34	5	0	4	54
B43588	ND	4020.00		#									
B44178	CA10	4061.85		.89		5	0	0	29	0	1	2	63
B44179	CA10	4068.70		.81		4	0	0	28	0	0	1	67
B44180	CA10	4069.50		.97		4	0	0	22	0	1	1	72
B44181	CA11	4124.80		.76		2	0	0	26	0	0	1	71
B44182	CA11	4127.40		1.44		2	0	0	12	0	0	2	84
B44183	CA11	4128.80		1.01		2	0	0	18	0	0	1	79

TABLE: 4

25/4-6S

RESULTS OF ORGANIC INVENTORY ANALYSIS

LAB. REF.	SAMPLE TYPE	DEPTHS Metres		R O C K - E V A L										EXTRACT ANALYSIS								
				Q1	on	Tmax	S1	S2	S3	PI	HI	OI	TOC	IOC	Q2	EOM	100(EOM/TOC)	SAT	ARO	POL	SAT/ARO	HC
B43589	ND	2910.00	2920.00	N	RT	#	.02	.02	1.22	#	13	>170	.16		N							
B43590	ND	3055.00	3065.00	N	RT	#	.04	.08	1.41	#	62	>170	.13		N							
B43591	ND	3150.00	3160.00	N	RT	#	.04	.16	.92	#	80	>170	.20		N							
B43592	ND	3270.00	3280.00	N	RT	#	.03	.30	.91	.09	77	>170	.39		N							
B43593	ND	3395.00	3405.00	N	RT	#	.03	.34	.89	.08	121	>170	.28		N							
B43594	ND	3530.00	3535.00	N	RT	#	.14	.36	.96	.28	86	>170	.42		N							
B43505	ND	3565.00	3570.00	N	RT	432	3.16	15.95	.56	.17	419	15	3.81		N	.876	23.0	27.3	39.0	33.7	.70	5.81
B43506	ND	3575.00	3580.00	N	RT	439	6.85	29.02	.65	.19	339	8	8.55		N	1.365	16.0	27.0	44.1	28.9	.61	9.71
B43507	ND	3585.00	3590.00	N	RT	431	5.79	18.88	.66	.23	479	17	3.94		N	1.552	39.4	25.9	41.6	32.5	.62	10.48
B43508	ND	3600.00	3610.00	N	RT	432	2.66	11.66	.95	.19	328	27	3.55		N	.936	26.4	22.6	40.1	37.3	.56	5.87
B43509	ND	3620.00	3625.00	N	RT	436	.42	1.09	1.53	.28	57	80	1.92		N	.194	10.1	33.3	32.8	33.9	1.02	1.29
B43510	ND	3640.00	3645.00	N	RT	437	.84	5.90	1.03	.12	180	31	3.28		N	.371	11.3	23.4	36.9	39.7	.64	2.24
B43511	ND	3650.00	3655.00	N	RT	439	2.28	17.80	.64	.11	300	11	5.94		N	.921	15.5	22.5	40.2	37.3	.56	5.78
B43512	ND	3660.00	3665.00	N	RT	438	2.56	17.11	.58	.13	388	13	4.41		N	.819	18.6	25.7	37.4	36.9	.69	5.17
B43513	ND	3670.00	3675.00	N	RT	435	1.66	10.95	2.36	.13	247	53	4.43		N	.640	14.5	23.2	36.3	40.5	.64	3.81
B43514	ND	3680.00	3685.00	N	RT	440	1.23	8.37	.85	.13	308	31	2.72		N	.421	15.5	24.9	36.7	38.4	.68	2.59
B43515	ND	3690.00	3695.00	N	RT	438	1.30	9.45	1.07	.12	220	25	4.30		N	.442	10.3	21.8	39.5	38.7	.55	2.71
B43516	ND	3700.00	3705.00	N	RT	433	1.02	8.39	1.23	.11	230	34	3.64		N	.455	12.5	21.2	35.5	43.3	.60	2.58
B42255	CA01	3712.95		N	RT	441	.89	6.72	.21	.12	238	7	2.82		N	.308	10.9	26.6	29.4	44.0	.90	1.73
B42256	CA01	3713.80		N	RT	442	.90	9.85	.18	.08	270	5	3.65		N	.335	9.2	21.9	33.5	44.7	.65	1.85
B42257	CA02	3715.05		N	RT	442	.39	4.32	.16	.08	196	7	2.20		N	.225	10.2	22.8	24.9	52.3	.91	1.07
B42258	CA02	3717.30		N	RT	#	.15	.56	2.64	.21	100	>170	.56		N	.057	10.2	22.5	21.9	55.6	1.03	.25
B42259	CA02	3717.85		N	RT	#	1.12	.60	.23	.65	113	43	.53		N	.206	38.9	64.4	13.7	21.9	4.70	1.61
B42260	CA02	3718.00		N	RT	#	1.18	.70	.20	.63	159	45	.44		N	.235	53.4	61.5	21.0	17.5	2.93	1.94
B42261	CA02	3718.50		N	RT	#	1.34	.64	.11	.68	173	30	.37		N	.227	61.5	63.0	24.0	13.0	2.63	1.98
B42262	CA02	3718.95		N	RT	#	1.06	1.07	.12	.50	315	35	.34		N	.218	64.3	61.7	22.5	15.8	2.74	1.84
B42263	CA02	3719.40		N	RT	#	1.09	.78	.14	.58	260	47	.30		N	.206	68.8	60.3	23.9	15.8	2.52	1.74
B42264	CA02	3719.95		N	RT	#	.73	1.00	.11	.42	385	42	.26		N	.136	52.3	58.3	21.6	20.0	2.70	1.09
B42265	CA02	3720.75		N	RT	#	1.20	.95	.13	.56	328	45	.29		N	.195	67.1	64.0	24.3	11.7	2.63	1.72
B42266	CA02	3721.30		N	RT	#	1.18	.95	.64	.55	306	>170	.31		N	.202	65.2	63.0	23.2	13.8	2.72	1.74
B42267	CA02	3721.95		N	RT	#	1.13	1.32	.32	.46	413	100	.32		N	.226	70.6	64.3	23.0	12.7	2.80	1.97
B42268	CA02	3722.55		N	RT	#	1.15	.87	.40	.57	281	129	.31		N	.255	82.1	64.1	23.4	12.5	2.74	2.23
B42269	CA02	3723.00		N	RT	#	1.45	.30	.70	.83	125	>170	.24		N	.188	78.4	78.1	10.1	11.8	7.70	1.66
B42270	CA02	3725.00		N	RT	#	.39	.20	.78	.66	167	>170	.12		N	.103	85.4	56.3	18.7	25.1	3.01	.77
B42271	CA02	3725.90		N	RT	#	1.00	.74	.18	.57	285	69	.26		N	.176	67.8	63.1	23.0	13.9	2.74	1.52
B42272	CA02	3726.50		N	RT	#	1.10	.77	.07	.59	308	28	.25		N	.201	80.2	64.4	22.5	13.1	2.87	1.74
B42273	CA02	3727.30		N	RT	#	1.16	.87	.34	.57	300	117	.29		N	.208	71.8	64.7	23.2	12.1	2.79	1.83
B42274	CA02	3728.10		N	RT	#	1.04	.78	.31	.57	279	111	.28		N	.190	67.8	60.6	24.1	15.3	2.52	1.61
B42275	CA02	3729.00		N	RT	#	1.30	.97	.50	.57	294	152	.33		N	.263	79.7	60.4	24.2	15.3	2.49	2.23
B42276	CA02	3729.95		N	RT	#	1.16	.78	.68	.60	229	>170	.34		N	.193	56.6	64.2	22.3	13.5	2.88	1.67
B42277	CA02	3730.60		N	RT	#	2.59	.79	.32	.77	193	78	.41		N	.310	75.5	77.4	14.9	7.7	5.20	2.86
B42278	CA02	3731.35		N	RT	#	1.82	.85	.05	.68	250	15	.34		N	.273	80.2	72.0	19.0	9.0	3.79	2.48
B42279	CA02	3732.50		N	RT	#	3.05	.74	.34	.80	176	81	.42		N	.350	83.2	79.4	13.6	7.0	5.82	3.25
B42280	CA02	3733.00		N	RT	415	1.49	.57	.31	.72	190	103	.30		N	.232	77.3	68.6	19.7	11.7	3.48	2.05
B42281	CA03	3734.35		N	RT	#	1.00	.58	.40	.63	232	160	.25		N	.186	74.6	65.2	21.7	13.1	3.01	1.62

TABLE: 4 (Continued) 25/4-6S

RESULTS OF ORGANIC INVENTORY ANALYSIS

LAB. REF.	SAMPLE TYPE	DEPTHS Metres	R O C K - E V A L										EXTRACT ANALYSIS								
			Q1	on	Tmax	S1	S2	S3	PI	HI	OI	TOC	IOC	Q2	EOM	100(EOM/TOC)	SAT	ARO	POL	SAT/ARO	HC
B42282	CA03	3734.95	N	RT	#	1.21	.69	.35	.64	246	125	.28		N	.217	77.4	65.7	22.6	11.8	2.91	1.91
B42283	CA03	3735.70	N	RT	#	1.12	.51	1.01	.69	196	>170	.26		N	.196	75.5	65.3	22.1	12.6	2.96	1.71
B42284	CA03	3736.40	N	RT	#	1.00	.40	.25	.71	174	109	.23		N	.169	73.3	66.5	22.9	10.6	2.90	1.51
B42285	CA03	3737.30	N	RT	#	.30	.12	1.85	.71	109	>170	.11		N	.066	60.2	59.6	19.6	20.8	3.05	.52
B42286	CA03	3738.90	N	RT	#	1.20	.72	.89	.63	267	>170	.27		N	.229	84.8	65.6	22.6	11.8	2.91	2.02
B42287	CA03	3739.90	N	RT	#	.89	.60	1.04	.60	261	>170	.23		N	.182	79.0	64.3	22.1	13.6	2.91	1.57
B42288	CA03	3740.85	N	RT	#	1.67	.62	1.29	.73	182	>170	.34		N	.265	77.9	68.0	20.0	12.1	3.41	2.33
B42289	CA03	3741.85	N	RT	#	1.41	.60	1.31	.70	194	>170	.31		N	.224	72.4	66.0	21.0	13.0	3.15	1.95
B42290	CA03	3743.00	N	RT	#	1.43	.70	.72	.67	206	>170	.34		N	.240	70.6	66.6	22.0	11.4	3.03	2.13
B42291	CA03	3743.85	N	RT	#	1.16	.53	1.31	.69	183	>170	.29		N	.204	70.5	66.8	20.5	12.7	3.26	1.79
B42292	CA03	3744.90	N	RT	#	3.96	.97	.65	.80	173	116	.56		N	.434	77.4	86.6	9.2	4.2	9.41	4.15
B42293	CA03	3745.80	N	RT	#	.12	.03	.72	#	60	>170	.05		N	.044	87.8	59.1	14.7	26.2	4.02	.32
B42294	CA04	3746.75	N	RT	#	.89	.43	.39	.67	215	>170	.20		N	.158	79.2	68.2	20.0	11.8	3.41	1.40
B42295	CA04	3747.80	N	RT	#	1.23	.68	.43	.64	227	143	.30		N	.203	67.7	68.5	21.1	10.4	3.25	1.82
B42296	CA04	3748.90	N	RT	#	2.02	.84	1.86	.71	221	>170	.38		N	.321	84.4	69.2	21.2	9.6	3.26	2.90
B42297	CA04	3750.00	N	RT	#	2.15	.99	.67	.68	254	>170	.39		N	.345	88.5	70.5	21.5	8.0	3.28	3.18
B42298	CA04	3750.80	N	RT	#	1.99	.95	1.59	.68	226	>170	.42		N	.341	81.2	69.8	21.7	8.5	3.22	3.12
B42299	CA04	3751.55	N	RT	#	1.37	.64	.61	.68	173	165	.37		N	.234	63.2	68.5	22.9	8.7	2.99	2.14
B42300	CA04	3752.75	N	RT	#	1.88	.64	.02	.75	173	5	.37		N	.267	72.2	70.5	23.0	6.5	3.07	2.50
B42302	CA04	3753.40	N	RT	#	2.06	.64	.05	.76	168	13	.38		N	.291	76.5	70.8	22.7	6.5	3.12	2.72
B42301	CA04	3754.40	N	RT	#	1.48	.63	.02	.70	119	4	.53		N	.262	49.5	64.0	23.7	12.3	2.70	2.30
B42303	CA04	3754.85	N	RT	445	8.88	81.67	1.01	.10	263	3	31.00		N	2.875	9.3	2.0	32.0	66.0	.06	9.78
B42304	CA04	3755.15	N	RT	#	1.89	.89	.16	.68	198	36	.45		N	.294	65.3	64.7	22.1	13.2	2.93	2.55
B42305	CA04	3756.10	N	RT	#	1.86	.64	.10	.74	188	29	.34		N	.266	78.2	67.8	22.3	9.9	3.04	2.40
B42306	CA04	3757.45	N	RT	#	1.90	.59	.08	.76	151	21	.39		N	.288	73.8	67.7	22.5	9.8	3.01	2.60
B42307	CA04	3758.40	N	RT	#	1.95	.46	.11	.81	128	31	.36		N	.257	71.5	68.8	23.1	8.1	2.98	2.36
B42308	CA04	3759.35	N	RT	#	1.48	.70	.15	.68	200	43	.35		N	.236	67.5	64.7	22.0	13.3	2.94	2.05
B42309	CA04	3760.25	N	RT	#	1.41	.68	.10	.67	174	26	.39		N	.245	62.9	61.7	23.2	15.1	2.66	2.08
B42310	CA04	3761.70	N	RT	#	1.56	.59	.07	.73	164	19	.36		N	.248	68.9	64.2	23.1	12.7	2.78	2.16
B42311	CA04	3762.60	N	RT	#	1.99	.50	.03	.80	161	10	.31		N	.276	89.0	68.9	22.7	8.4	3.04	2.53
B42312	CA04	3763.95	N	RT	#	1.86	.58	.10	.76	176	30	.33		N	.252	76.2	68.3	22.3	9.4	3.06	2.28
B42313	CA04	3764.65	N	RT	#	1.82	.60	.08	.75	182	24	.33		N	.287	86.9	68.4	23.2	8.4	2.95	2.63
B42314	CA04	3764.85	N	RT	#	1.65	.49	.06	.77	153	19	.32		N	.284	88.6	65.8	22.9	11.3	2.87	2.52
B42315	CA04	3765.65	N	RT	#	1.43	.54	.07	.73	154	20	.35		N	.295	84.2	62.8	23.0	14.2	2.72	2.53
B42316	CA04	3766.55	N	RT	#	1.87	.59	.08	.76	140	19	.42		N	.324	77.2	62.2	23.4	14.4	2.66	2.77
B42317	CA04	3766.70	N	RT	#							#		N							
B42318	CA04	3767.45	N	RT	#	2.11	.62	.07	.77	148	17	.42		N	.282	67.2	69.7	20.3	9.9	3.43	2.54
B42319	CA04	3768.45	N	RT	#	2.60	.85	.17	.75	155	31	.55		N	.372	67.6	64.1	24.3	11.6	2.63	3.29
B42320	CA04	3769.05	N	RT	#	2.87	.96	.20	.75	143	30	.67		N	.358	53.5	70.9	18.7	10.4	3.79	3.21
B41970	CA04	3769.90	N	RT	448	23.63	127.13	.76	.16	204	1	62.20		N	10.230	16.4	2.9	28.8	68.3	.10	32.47
B42321	CA04	3770.25	N	RT	445	4.42	43.04	.24	.09	255	1	16.90		N	1.816	10.7	4.0	29.2	66.8	.14	6.03
B42322	CA04	3771.30	N	RT	#	1.45	1.22	.15	.54	147	18	.83		N	.357	43.0	52.6	22.8	24.6	2.31	2.69
B42323	CA04	3772.80	N	RT	#	2.08	.63	.14	.77	180	40	.35		N	.373	106.6	67.1	24.1	8.8	2.79	3.40
B42324	CA04	3773.70	N	RT	#	1.61	.96	.13	.63	253	34	.38		N	.299	78.6	64.3	23.5	12.1	2.73	2.62
B42325	CA05	3774.20	N	RT	#	1.56	.69	.54	.69	216	169	.32		N	.258	80.7	78.8	12.6	8.6	6.25	2.36

TABLE: 4 (Continued) 25/4-6S

RESULTS OF ORGANIC INVENTORY ANALYSIS

LAB. REF.	SAMPLE TYPE	DEPTHS Metres	R O C K - E V A L											EXTRACT ANALYSIS							
			Q1	on	Tmax	S1	S2	S3	PI	HI	OI	TOC	IOC	Q2	EOM	100(EOM/TOC)	SAT	ARO	POL	SAT/ARO	HC
B42326	CA05	3775.65	N	RT	#	.24	.13	1.60	.65	130	>170	.10		N	.057	57.1	83.8	2.4	13.8	34.61	.49
B42327	CA05	3776.85	N	RT	#	1.81	.89	.19	.67	241	51	.37		N	.294	79.4	68.5	22.3	9.1	3.07	2.67
B42328	CA05	3777.70	N	RT	#	1.32	.63	.15	.68	197	47	.32		N	.241	75.3	65.4	23.9	10.7	2.73	2.15
B42329	CA05	3778.80	N	RT	#	1.37	.62	.52	.69	177	149	.35		N	.262	74.9	68.4	22.3	9.3	3.07	2.38
B42330	CA05	3779.75	N	RT	#	1.89	.59	.15	.76	164	42	.36		N	.306	85.1	69.1	22.8	8.1	3.03	2.81
B42331	CA05	3780.80	N	RT	#	1.25	.62	.13	.67	207	43	.30		N	.204	68.1	67.2	22.3	10.5	3.01	1.83
B42332	CA05	3781.90	N	RT	#	1.50	.53	.17	.74	171	55	.31		N	.214	69.0	67.4	22.0	10.5	3.06	1.91
B42333	CA05	3782.85	N	RT	#	1.77	.56	.11	.76	147	29	.38		N	.281	74.0	66.3	23.4	10.3	2.84	2.52
B42334	CA05	3783.80	N	RT	#	1.29	.55	.03	.70	138	8	.40		N	.265	66.2	60.4	24.8	14.8	2.44	2.26
B42335	CA05	3783.95	N	RT	445	2.09	13.93	.05	.13	179	1	7.80		N	.659	8.4	14.6	43.7	41.7	.33	3.84
B41972	CA05	3784.70 3784.85	N	RT	453	28.08	163.56	1.27	.15	195	2	83.80		N	19.140	22.8	1.4	19.4	79.2	.07	39.83
B42336	CA05	3785.75	N	RT	#	1.99	.75	.15	.73	139	28	.54		N	.269	49.8	71.5	18.4	10.1	3.89	2.42
B42337	CA05	3787.00	N	RT	#	1.10	.46	.16	.71	148	52	.31		N	.203	65.4	64.7	21.5	13.8	3.01	1.75
B41973	CA05	3788.45 3788.50	N	RT	455	28.51	159.37	1.42	.15	189	2	84.50		N	18.250	21.6	1.2	23.1	75.6	.05	44.49
B42338	CA05	3788.60	N	RT	440	.67	3.19	.08	.17	164	4	1.95		N	.210	10.7	31.9	30.7	37.4	1.04	1.31
B42339	CA05	3789.00	N	RT	#	1.17	.64	.18	.65	213	60	.30		N	.214	71.4	71.2	19.8	9.0	3.59	1.95
B42340	CA05	3790.05	N	RT	#	1.07	.52	.39	.67	186	139	.28		N	.221	79.0	66.4	23.2	10.5	2.87	1.98
B42341	CA06	3791.90	N	RT	436	.47	2.36	.25	.17	99	10	2.39		N	.159	6.7	12.9	43.3	43.8	.30	.89
B42342	CA06	3792.75	N	RT	#	1.12	.50	.13	.69	139	36	.36		N	.221	61.5	68.8	22.0	9.2	3.13	2.01
B42343	CA06	3793.55	N	RT	#	1.17	.88	.02	.57	191	4	.46		N	.244	53.0	57.5	25.6	16.9	2.25	2.03
B42344	CA06	3794.00	N	RT	#	.88	.64	.12	.58	188	35	.34		N	.190	55.9	56.3	23.8	20.0	2.37	1.52
B42345	CA06	3794.80	N	RT	#	1.13	.50	.05	.69	200	20	.25		N	.195	78.2	67.5	23.7	8.8	2.84	1.78
B42346	CA06	3795.80	N	RT	#	1.25	.54	.03	.70	245	14	.22		N	.213	96.7	71.1	23.5	5.4	3.02	2.01
B42347	CA06	3796.75	N	RT	#	1.22	.57	.07	.68	259	32	.22		N	.195	88.7	71.3	22.6	6.1	3.15	1.83
B42348	CA06	3797.45	N	RT	#	1.02	.51	.08	.67	255	40	.20		N	.169	84.3	71.1	22.6	6.3	3.15	1.58
B42349	CA06	3798.45	N	RT	#	1.63	.59	.04	.73	203	14	.29		N	.222	76.6	76.9	17.8	5.3	4.31	2.10
B42350	CA06	3799.60	N	RT	#	1.66	.60	.05	.73	176	15	.34		N	.247	72.8	63.2	25.2	11.6	2.51	2.19
B42351	CA06	3800.60	N	RT	#	1.49	.90	.08	.62	205	18	.44		N	.262	59.5	58.7	26.6	14.8	2.21	2.23
B42352	CA06	3801.75	N	RT	#	1.72	1.32	1.51	.57	142	162	.93		N	.462	49.7	36.1	23.4	40.5	1.54	2.75
B42353	CA06	3802.45	N	RT	448	16.30	120.70	.89	.12	228	2	53.00		N	5.217	9.8	2.5	33.7	63.8	.07	18.89
B41975	CA06	3802.65 3802.85	N	RT	449	27.55	241.49	1.08	.10	306	1	78.80		N	9.290	11.8	7.0	27.8	65.2	.25	32.31
B42354	CA06	3803.20	N	RT	#	1.85	.82	.85	.69	149	155	.55		N	.305	55.5	61.3	20.0	18.7	3.07	2.48
B42355	CA06	3804.00	N	RT	#	1.58	.66	.16	.71	189	46	.35		N	.254	72.5	62.7	21.7	15.6	2.89	2.14
B42356	CA06	3804.70	N	RT	#	1.88	1.60	.08	.54	172	9	.93		N	.395	42.5	41.8	24.0	34.2	1.75	2.60
B42357	CA06	3805.55	N	RT	#	1.61	.59	.34	.73	184	106	.32		N	.241	75.4	65.2	23.0	11.8	2.83	2.13
B42358	CA06	3806.30	N	RT	#	2.37	.65	.04	.78	176	11	.37		N	.324	87.7	65.8	24.1	10.1	2.73	2.91
B42359	CA06	3807.65	N	RT	#	2.47	.48	.02	.84	133	6	.36		N	.317	88.0	67.0	24.9	8.1	2.70	2.91
B42360	CA06	3808.65	N	RT	#	1.44	.38	.11	.79	119	34	.32		N	.228	71.3	62.5	23.8	13.8	2.63	1.97
B42361	CA06	3809.50	N	RT	#	1.37	.89	1.02	.61	146	167	.61		N	.296	48.5	53.4	25.3	21.3	2.11	2.33
B42362	CA06	3811.10	N	RT	#	1.45	.65	.03	.69	197	9	.33		N	.222	67.4	64.2	23.6	12.1	2.72	1.95
B42363	CA06	3812.20	N	RT	#	1.44	.62	.10	.70	230	37	.27		N	.229	84.6	67.0	23.5	9.5	2.85	2.07
B42364	CA06	3813.60	N	RT	#	1.02	.44	.68	.70	210	>170	.21		N	.177	84.1	66.7	22.9	10.4	2.92	1.58
B42365	CA06	3814.25	N	RT	#	1.15	1.57	.76	.42	449	>170	.35		N	.366	104.7	70.9	16.3	12.8	4.36	3.20
B42366	CA06	3815.45	N	RT	#	.97	.30	.51	.76	150	>170	.20		N	.170	84.9	66.9	21.9	11.2	3.06	1.51
B42367	CA06	3816.45	N	RT	#	1.51	.50	.33	.75	172	114	.29		N	.234	80.8	67.4	22.8	9.8	2.95	2.11

TABLE: 4 (Continued) 25/4-6S

RESULTS OF ORGANIC INVENTORY ANALYSIS

LAB. REF.	SAMPLE TYPE	DEPTHS Metres	R O C K - E V A L									TOC	IOC	EXTRACT ANALYSIS							
			Q1	on	Tmax	S1	S2	S3	PI	HI	OI			Q2	EOM	100(EOM/TOC)	SAT	ARO	POL	SAT/ARO	HC
B42368	CA06	3817.90	N	RT	#	1.45	.74	.38	.66	195	100	.38		N	.230	60.4	64.8	22.2	13.0	2.92	2.00
B42369	CA06	3818.45	N	RT	#	1.43	.75	.18	.66	192	46	.39		N	.250	64.1	61.2	22.6	16.2	2.70	2.09
B42370	CA07	3819.45	N	RT	#	1.14	.65	.02	.64	203	6	.32		N	.204	63.7	62.4	23.7	13.9	2.63	1.75
B42371	CA07	3820.90	N	RT	#	1.19	.73	.05	.62	174	12	.42		N	.221	52.6	58.9	23.5	17.6	2.51	1.82
B42372	CA07	3821.60	N	RT	#	.90	.51	.10	.64	189	37	.27		N	.164	60.8	63.8	22.6	13.6	2.82	1.42
B42373	CA07	3822.85	N	RT	#	.82	.41	.24	.67	121	71	.34		N	.182	53.6	63.5	22.5	14.0	2.82	1.57
B42374	CA07	3823.95	N	RT	#	2.99	.70	.12	.81	117	20	.60		N	.344	57.3	74.9	14.4	10.7	5.19	3.07
B42375	CA07	3824.65	N	RT	#	1.83	1.04	.12	.64	158	18	.66		N	.357	54.1	50.0	25.3	24.8	1.98	2.69
B42376	CA07	3825.85	N	RT	#	1.12	.78	.04	.59	173	9	.45		N	.234	52.0	63.1	24.2	12.7	2.61	2.04
B42377	CA07	3825.95	N	RT	#	.90	.48	.02	.65	171	7	.28		N	.168	59.9	67.5	23.1	9.4	2.92	1.52
B42378	CA07	3826.40	N	RT	#	1.09	.47	.01	.70	188	4	.25		N	.188	75.4	68.4	23.8	7.8	2.87	1.74
B42379	CA07	3827.40	N	RT	#	1.24	.45	0.00	.73	155	0	.29		N	.206	70.9	69.4	24.4	6.1	2.84	1.93
B42380	CA07	3827.80	N	RT	#	.75	.33	.12	.69	220	80	.15		N	.140	93.5	70.6	23.6	5.8	2.99	1.32
B42381	CA07	3828.60	N	RT	#	.62	.35	.56	.64	250	>170	.14		N	.134	96.1	70.0	23.7	6.4	2.96	1.26
B42382	CA07	3829.70	N	RT	#	.61	.40	.12	.60	250	75	.16		N	.126	78.6	68.1	23.4	8.5	2.91	1.15
B42383	CA07	3830.35	N	RT	#	.57	.22	.08	.72	157	57	.14		N	.110	78.4	58.1	22.0	19.9	2.65	.88
B42384	CA07	3831.45	N	RT	#	.45	.52	.23	.46	186	82	.28		N	.129	45.9	53.4	24.2	22.3	2.21	1.00
B42385	CA07	3832.65	N	RT	#	.03	.11	3.05	#	32	>170	.34		N	.042	12.3	7.0	28.7	64.3	.24	.15
B42386	CA07	3834.10	N	RT	445	1.35	8.36	.15	.14	163	3	5.12		N	.506	9.9	5.8	39.0	55.2	.15	2.26
B41978	CA07	3835.13	N	RT	449	34.00	231.11	1.25	.13	284	2	81.30		N	11.590	14.3	2.5	27.1	70.4	.09	34.32
B42387	CA07	3835.80	N	RT	452	7.64	119.15	.51	.06	378	2	31.50		N	3.405	10.8	1.1	26.8	72.1	.04	9.50
B42388	CA07	3836.65	N	RT	#	.64	.65	.12	.50	232	43	.28		N	.146	52.2	63.6	19.6	16.8	3.25	1.22
B42389	CA07	3837.85	N	RT	#	.58	.34	.11	.63	179	58	.19		N	.119	62.5	62.6	22.0	15.3	2.84	1.01
B42390	CA07	3838.70	N	RT	#	.46	.34	.14	.58	200	82	.17		N	.110	64.5	59.1	23.8	17.2	2.49	.91
B42391	CA07	3839.60	N	RT	#	.68	.38	.06	.64	181	29	.21		N	.131	62.6	61.0	20.7	18.3	2.95	1.07
B42392	CA07	3841.20	N	RT	#	.86	.31	.07	.74	163	37	.19		N	.144	75.7	78.1	12.9	9.0	6.04	1.31
B42393	CA07	3843.90	N	RT	#	.64	.47	.63	.58	235	>170	.20		N	.164	81.9	62.1	21.2	16.7	2.93	1.37
B42395	CA07	3844.90	N	RT	#	.45	.26	.27	.63	186	>170	.14		N	.114	81.2	59.2	24.6	16.2	2.41	.95
B42394	CA07	3845.90	N	RT	#	.09	.20	.31	.31	222	>170	.09		N	.032	35.2	69.0	6.0	25.1	11.58	.24
B42396	CA08	3846.75	N	RT	#	.45	.27	.06	.63	270	60	.10		N	.085	85.0	61.4	25.0	13.6	2.46	.73
B42397	CA08	3847.30	N	RT	#	.39	.29	0.00	.57	322	0	.09		N	.074	82.3	58.8	22.1	19.1	2.66	.60
B42398	CA08	3848.15	N	RT	#	.46	.25	0.00	.65	250	0	.10		N	.114	113.6	60.8	24.8	14.4	2.45	.97
B42399	CA08	3849.20	N	RT	#	.69	.38	0.00	.64	253	0	.15		N	.137	91.4	59.5	26.5	14.0	2.24	1.18
B42400	CA08	3850.55	N	RT	#	.67	.51	0.00	.57	189	0	.27		N	.173	63.9	47.5	29.9	22.6	1.59	1.34
B42401	CA08	3853.35	N	RT	445	2.77	18.58	.15	.13	209	2	8.90		N	1.003	11.3	4.5	30.3	65.2	.15	3.49
B42402	CA08	3854.25	N	RT	#	.01	.03	.60	#	25	>170	.12		N	.028	23.2					
B42403	CA08	3858.15	N	RT	#	.07	.24	.23	.23	80	77	.30		N	.054	18.0	8.8	26.7	64.4	.33	.19
B42404	CA08	3863.50	N	RT	448	1.41	11.62	.07	.11	186	1	6.24		N	.429	6.9	9.8	36.0	54.2	.27	1.96
B41979	CA08	3864.07	N	RT	456	27.22	162.77	1.48	.14	200	2	81.40		N	12.540	15.4	1.2	26.8	72.0	.05	35.15
B41982	CA08	3864.80	N	RT	455	23.62	176.37	1.20	.12	226	2	78.00		N	10.130	13.0	3.0	28.9	68.1	.10	32.30
B41983	CA08	3866.05	N	RT	457	23.04	169.13	1.44	.12	206	2	82.00		N	10.450	12.7	2.3	27.1	70.6	.08	30.75
B42405	CA08	3866.95	N	RT	#	.28	.43	.09	.39	205	43	.21		N	.059	28.2	75.7	6.2	18.1	12.21	.49
B42406	CA08	3868.20	N	RT	#	.05	.20	.10	.20	250	125	.08		N	.015	19.4					
B42407	CA08	3869.15	N	RT	#	.26	.31	.54	.46	238	>170	.13		N	.046	35.1	83.9	3.4	12.7	24.52	.40
B42408	CA08	3870.25	N	RT	#	.04	.11	3.36	#	122	>170	.09		N	.019	21.2					

TABLE: 4 (Continued) 25/4-6S

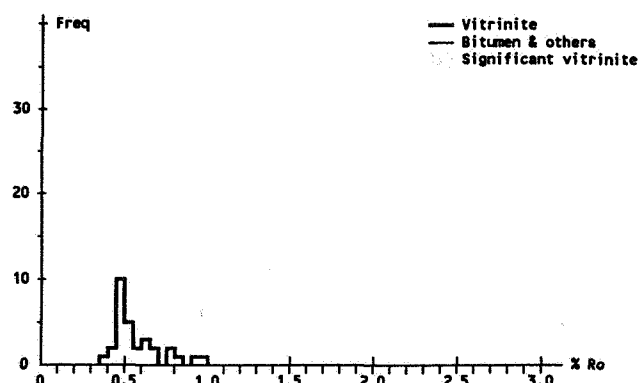
RESULTS OF ORGANIC INVENTORY ANALYSIS

LAB. REF.	SAMPLE TYPE	DEPTHS Metres	R O C K - E V A L									TOC	IOC	EXTRACT ANALYSIS							
			Q1	on	Tmax	S1	S2	S3	PI	HI	OI			Q2	EOM	100(EOM/TOC)	SAT	ARO	POL	SAT/ARO	HC
B42409	CA08	3872.15	N	RT	#	.15	.58	1.45	.21	200	>170	.29		N	.038	12.9	31.0	20.8	48.3	1.49	.19
B42410	CA09	3874.20	N	RT	443	.78	2.58	.12	.23	75	3	3.44		N	.339	9.9	8.4	33.4	58.2	.25	1.42
B42411	CA09	3876.40	N	RT	442	2.18	12.32	.04	.15	242	1	5.10		N	.771	15.1	4.8	35.7	59.5	.13	3.12
B41988	CA09	3881.20	N	RT	460	21.42	156.71	1.50	.12	192	2	81.80		N	11.270	13.8	2.3	24.3	73.4	.10	30.01
B42412	CA09	3882.00	N	RT	#	.10	.19	.02	#	90	10	.21		N	.035	16.9	18.8	17.8	63.3	1.05	.13
B42413	CA09	3885.40	N	RT	#	.03	.02	.80	#	17	>170	.12		N	.024	20.2					
B42414	CA09	3886.20	N	RT	#	.01	.05	5.93	#	33	>170	.15		N	.013	8.9					
B41990	CA09	3892.65	N	RT	455	15.63	128.22	1.32	.11	179	2	71.80		N	7.870	11.0	3.7	23.5	72.8	.16	21.41
B41993	CA09	3895.25	N	RT	459	15.10	124.27	1.51	.11	156	2	79.60		N	5.720	7.2	3.1	32.2	64.7	.09	20.17
B42415	CA09	3896.90	N	RT	455	4.83	44.15	.50	.10	147	2	30.00		N	1.115	3.7	1.8	32.4	65.8	.05	3.81
B42416	CA09	3898.20	N	RT	454	4.67	42.15	.11	.10	205	1	20.60		N	1.180	5.7	7.1	34.9	58.0	.20	4.96
B42417	CA09	3899.20	N	RT	450	.68	5.58	0.00	.11	173	0	3.23		N	.212	6.6	18.0	30.7	51.3	.59	1.03
B42418	CA09	3900.40	N	RT	449	2.62	24.46	.09	.10	264	1	9.25		N	1.061	11.5	6.2	31.7	62.1	.19	4.02
B43517	ND	3930.00	N	RT	435	2.18	4.50	.76	.33	251	42	1.79		N	.643	35.9	36.4	35.6	28.0	1.02	4.64
B43518	ND	3940.00	N	RT	437	2.48	6.06	.62	.29	260	27	2.33		N	.633	27.2	34.9	36.5	28.6	.96	4.52
B43519	ND	3950.00	N	RT	438	1.49	4.17	.77	.26	129	24	3.23		N	.489	15.2	32.4	37.5	30.1	.86	3.42
B43520	ND	3960.00	N	RT	438	.67	1.76	.96	.28	108	59	1.63		N	.319	19.6	29.7	35.1	35.1	.85	2.07
B43588	ND	4020.00		RT			#					#									
B44178	CA10	4061.85	N	RT	442	.28	.89	.21	.24	100	24	.89		N	.157	17.6	36.7	27.5	35.8	1.34	1.01
B44179	CA10	4068.70	N	RT	447	.24	.75	.18	.24	93	22	.81		N	.100	12.3	32.4	29.3	38.3	1.10	.61
B44180	CA10	4069.50	N	RT	446	.27	.98	.17	.22	101	18	.97		N	.124	12.8	37.2	28.5	34.3	1.31	.82
B44181	CA11	4124.80	N	RT	446	.10	.40	.05	.20	53	7	.76		N	.053	6.9	32.8	26.2	41.1	1.25	.31
B44182	CA11	4127.40	N	RT	453	.24	1.08	.09	.18	75	6	1.44		N	.097	6.7	29.3	33.4	37.2	.88	.61
B44183	CA11	4128.80	N	RT	450	.13	.48	.01	.21	48	1	1.01		N	.066	6.6	21.9	28.4	49.7	.77	.33

WELL: 25/4-6S	Upper depth: 2910.00 M
LABORATORY SAMPLE CODE: P910175B43589	Lower depth: 2920.00 M
	Sample type: DE
	Preparation type: MO

MEASUREMENTS

Vitrinite.....	.41	.45	.45	.48	.48	.49	.50	.51	.51
	.51	.52	.52	.52	.54	.54	.56	.56	.56
	.58	.62	.64	.67	.67	.69	.70	.81	.82
	.84	.93	1.02						

REFLECTANCE HISTOGRAM:

GROUP OF MEASUREMENTS	(RANGE)	NUMBER of READINGS	MEAN	STD.-DEV.	MODE
Reliable Vitrinite	.35 - .60%	19	.51	.04	.5

Code Mode: * = Undetermined, ** = Bimodal

MACERAL ESTIMATION:

VITRINITE (25-50%), INERTINITE (50-75%), EXINITE (<5%)

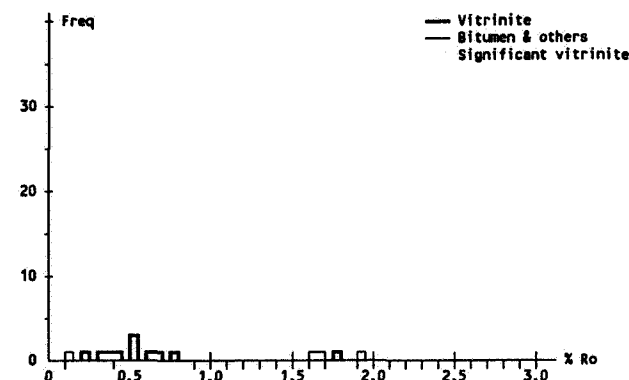
FLUORESCENCE:Common.....: Organic groundmass
Rare.....: Sporinite**ORGANIC MATTER TYPE:** Undetermined**FLUORESCENCE INDEX:** .5**COMMENTS:**

Pale yellow groundmass, Frequent small fragments of coal

WELL: 25/4-6S	Upper depth: 3055.00 M
LABORATORY SAMPLE CODE: P910175B43590	Lower depth: 3065.00 M
	Sample type: DE
	Preparation type: MO

MEASUREMENTS

Vitrinite.....	.26	.35	.41	.46	.53	.53	.56	.64	.68
	.81	1.78							
Bitumen.....	.17	1.65	1.71	1.97					

REFLECTANCE HISTOGRAM:

GROUP OF MEASUREMENTS	(RANGE)	NUMBER of READINGS	MEAN	STD.-DEV.	MODE

Code Mode: * = Undetermined, ** = Bimodal

MACERAL ESTIMATION:

VITRINITE (50-75%), INERTINITE (25-50%), EXINITE (<5%)

FLUORESCENCE:Rare.....: Organic groundmass
Very rare.....: Sporinite**ORGANIC MATTER TYPE:** Undetermined**COMMENTS:**

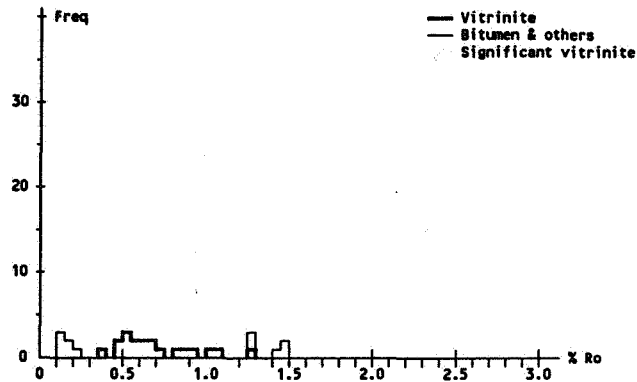
Pale groundmass with very rare exinite, Rare fragments of coal - Rare high reflectant bitumen.

<u>WELL:</u> 25/4-6S	<u>Upper depth</u>: 3150.00 M
<u>LABORATORY SAMPLE CODE:</u> P910175B43591	<u>Lower depth</u>: 3160.00 M
	<u>Sample type</u>: DE
	<u>Preparation type</u>: MO

MEASUREMENTS

Vitrinite.....	.41	.48	.51	.53	.55	.56	.58	.60	.63
	.66	.68	.71	.75	.84	.90	.93	1.04	1.12
	1.30								
Bitumen.....	.16	.17	.17	.18	.19	.23	1.28	1.31	1.46
	1.48	1.49							

REFLECTANCE HISTOGRAM:



GROUP OF MEASUREMENTS	(RANGE)	NUMBER of READINGS	MEAN	STD.-DEV.	MODE
Vitrinite	.45 - .80%	12	.60	.08	.55

Code Mode: * = Undetermined, ** = Bimodal

MACERAL ESTIMATION:

FLUORESCENCE:

Very rare.....: Sporinite, Tasmanaceae, Organic groundmass

ORGANIC MATTER TYPE: Undetermined

COMMENTS:

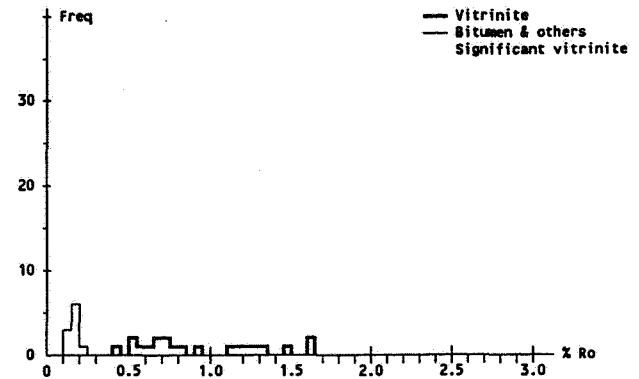
Very pale groundmass - One yellow Tasmanaceae, Numerous small fragment of high reflectance (inertodetrinite?), Limited occurrence of bitumen

<u>WELL:</u> 25/4-6S	<u>Upper depth</u>: 3270.00 M
<u>LABORATORY SAMPLE CODE:</u> P910175B43592	<u>Lower depth</u>: 3280.00 M
	<u>Sample type</u>: DE
	<u>Preparation type</u>: MO

MEASUREMENTS

Vitrinite.....	.43	.54	.54	.60	.64	.68	.69	.73	.73
	.81	.84	.93	1.14	1.20	1.24	1.28	1.35	1.49
	1.63	1.65							
Bitumen.....	.16	.17	.17	.18	.19	.20	.20	.22	.22
	.27								

REFLECTANCE HISTOGRAM:



GROUP OF MEASUREMENTS	(RANGE)	NUMBER of READINGS	MEAN	STD.-DEV.	MODE
Vitrinite	.45 - .80%	12	.60	.08	.55

Code Mode: * = Undetermined, ** = Bimodal

MACERAL ESTIMATION:

FLUORESCENCE:

Common.....: Organic groundmass
Rare.....: Botryococcus, Alginite
Very rare.....: Sporinite

ORGANIC MATTER TYPE: Undetermined

FLUORESCENCE INDEX: .5

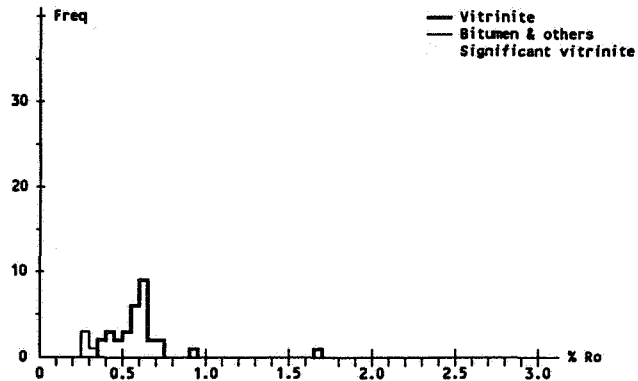
COMMENTS:

Pale yellow groundmass with rare alginite and Botryococcus (eqVRO=0.55%), Numerous small fragments of high reflectance (inertodetrinite?), Limited occurrence of bitumen

<u>WELL:</u> 25/4-6S	<u>Upper depth.....</u> : 3395.00 M
<u>LABORATORY SAMPLE CODE:</u> P910175B43593	<u>Lower depth.....</u> : 3405.00 M
	<u>Sample type.....</u> : DE
	<u>Preparation type.....</u> : MO

MEASUREMENTS

Vitrinite.....	.40	.42	.44	.47	.47	.48	.52	.54	.56
	.56	.60	.60	.60	.60	.61	.62	.63	.63
	.64	.64	.65	.65	.66	.66	.67	.68	.69
Bitumen.....	.77	.77	.96	1.70					
	.31	.31	.32	.35					

REFLECTANCE HISTOGRAM:

GROUP OF MEASUREMENTS	(RANGE)	NUMBER of READINGS	MEAN	STD.-DEV.	MODE
Reliable Vitrinite	.50 - .80%	23	.63	.06	.65

Code Mode: * = Undetermined, ** = Bimodal

MACERAL ESTIMATION:FLUORESCENCE:

Rare.....: Organic groundmass
 Very rare.....: Sporinite, Botryococcus, Alginite

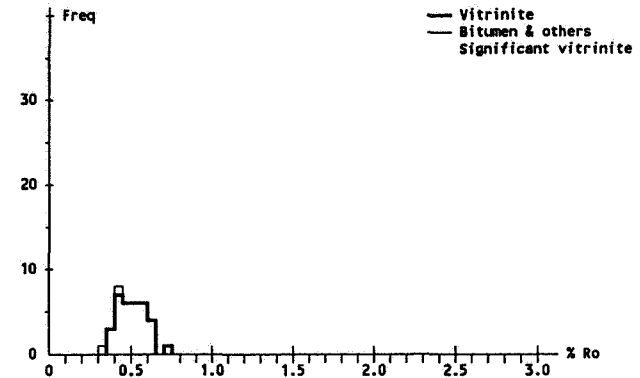
ORGANIC MATTER TYPE: UndeterminedFLUORESCENCE INDEX: .5COMMENTS:

Pale yellow groundmass with very rare yellow Botryococcus, Numerous small fragments of high reflectance (inertodetrinite?), Limited occurrence of bitumen

<u>WELL:</u> 25/4-6S	<u>Upper depth.....</u> : 3530.00 M
<u>LABORATORY SAMPLE CODE:</u> P910175B43594	<u>Lower depth.....</u> : 3535.00 M
	<u>Sample type.....</u> : DE
	<u>Preparation type.....</u> : MO

MEASUREMENTS

Vitrinite.....	.40	.41	.41	.44	.44	.45	.46	.46	.46
	.47	.48	.50	.50	.51	.52	.52	.53	.53
	.53	.55	.57	.57	.58	.58	.58	.59	.60
Bitumen.....	.62	.63	.65	.65	.66	.77			
	.33	.43							

REFLECTANCE HISTOGRAM:

GROUP OF MEASUREMENTS	(RANGE)	NUMBER of READINGS	MEAN	STD.-DEV.	MODE
Vitrinite	.35 - .70%	32	.53	.07	.45

Code Mode: * = Undetermined, ** = Bimodal

MACERAL ESTIMATION:

VITRINITE (5-25%), INERTINITE (>75%), EXINITE (<5%)

FLUORESCENCE:

Frequent.....: Alginite
 Rare.....: Sporinite, Tasmanaceae, Organic groundmass

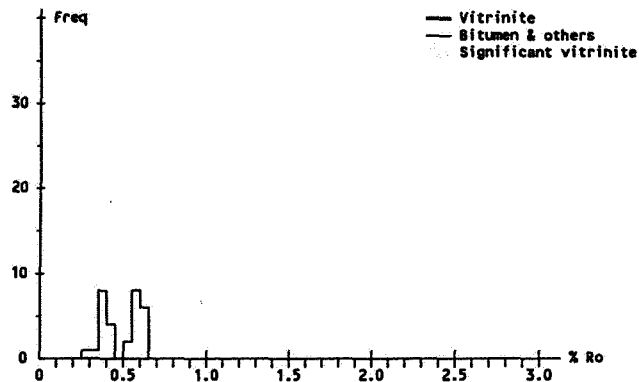
ORGANIC MATTER TYPE: UndeterminedFLUORESCENCE INDEX: .5COMMENTS:

Pale yellow groundmass with frequent yellow exinite, Numerous small fragments of high reflectance (inertodetrinite?), Limited occurrence of bitumen

<u>WELL:</u> 25/4-6S	<u>Upper depth</u>: 3575.00 M
<u>LABORATORY SAMPLE CODE:</u> F910175B43506	<u>Lower depth</u>: 3580.00 M
	<u>Sample type</u>: DE
	<u>Preparation type</u>: MO

MEASUREMENTS

Bitumen.....	.32	.37	.38	.38	.39	.39	.40	.42	.42
	.42	.43	.43	.44	.46	.56	.56	.58	.58
	.58	.61	.61	.61	.61	.62	.63	.64	.64
	.64	.66	.66						

REFLECTANCE HISTOGRAM:

GROUP OF MEASUREMENTS	(RANGE)	NUMBER of READINGS	MEAN	STD.-DEV.	MODE
Bitumen	.25 - .50%	14	.40	.03	.4
Bitumen	.50 - .70%	16	.61	.03	.6

Code Mode: * - Undetermined, ** - Bimodal

MACERAL ESTIMATION:

Pyrite occurrence

FLUORESCENCE:

Abundant.....: Sporinite, Fluorescent bitumen, Alginite, Organic groundmass
 Common.....: Tasmanaceae

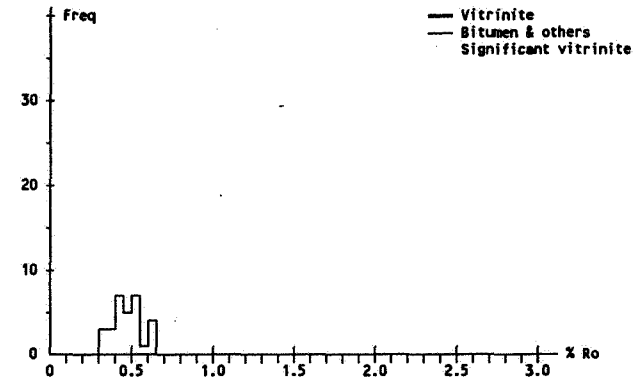
ORGANIC MATTER TYPE: AlgaeFLUORESCENCE INDEX: 2.0COMMENTS:

Brown sapropelic groundmass rich in alginite, sporinite and bitumen, Some yellow-orange Tasmanaceae (eqVRO=0.65-0.70%), Numerous homogeneous bitumen and inertodetrinite.

<u>WELL:</u> 25/4-6S	<u>Upper depth</u>: 3650.00 M
<u>LABORATORY SAMPLE CODE:</u> F910175B43511	<u>Lower depth</u>: 3655.00 M
	<u>Sample type</u>: DE
	<u>Preparation type</u>: MO

MEASUREMENTS

Bitumen.....	.33	.37	.37	.38	.39	.40	.43	.43	.46
	.46	.46	.46	.47	.48	.48	.49	.50	.52
	.53	.53	.54	.56	.56	.57	.57	.61	.64
	.66	.66	.67						

REFLECTANCE HISTOGRAM:

GROUP OF MEASUREMENTS	(RANGE)	NUMBER of READINGS	MEAN	STD.-DEV.	MODE
Bitumen	.30 - .70%	30	.50	.09	**

Code Mode: * - Undetermined, ** - Bimodal

MACERAL ESTIMATION:FLUORESCENCE:

Abundant.....: Fluorescent bitumen, Organic groundmass
 Frequent.....: Alginite
 Rare.....: Sporinite, Tasmanaceae

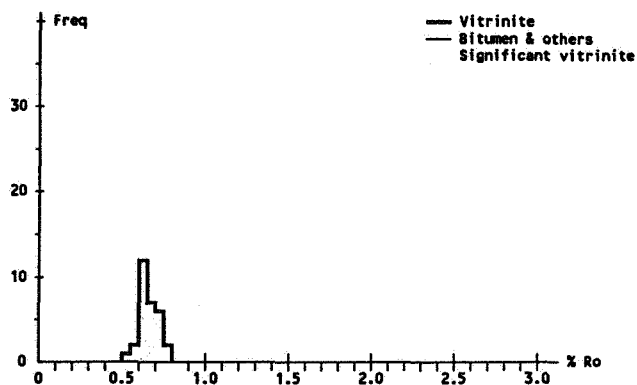
ORGANIC MATTER TYPE: AlgaeFLUORESCENCE INDEX: 2.5COMMENTS:

Light brown sapropelic groundmass rich in liptodetrinite, Frequent alginite and rare orange Tasmanaceae (eqVRO=0.65-0.70%), Significant occurrence of bitumen

<u>WELL:</u> 25/4-6S	<u>Upper depth</u>: 3717.40 M
<u>LABORATORY SAMPLE CODE:</u> F910175B00000	<u>Lower depth</u>: 3717.40 M
	<u>Sample type</u>: CA
	<u>Preparation type</u>: MO

MEASUREMENTS

Vitrinite.....: .53 .61 .62 .63 .63 .65 .65 .66 .66
 .66 .66 .66 .67 .67 .67 .68 .69 .69
 .70 .70 .70 .71 .73 .73 .74 .74 .74
 .76 .79 .79

REFLECTANCE HISTOGRAM:

GROUP OF MEASUREMENTS	(RANGE)	NUMBER of READINGS	MEAN	STD. - DEV.	MODE
Reliable Vitrinite	.50 - .90%	30	.68	.05	.65

Code Mode: * = Undetermined, ** = Bimodal

MACERAL ESTIMATION:

VITRINITE (50-75%), Pyrite occurrence

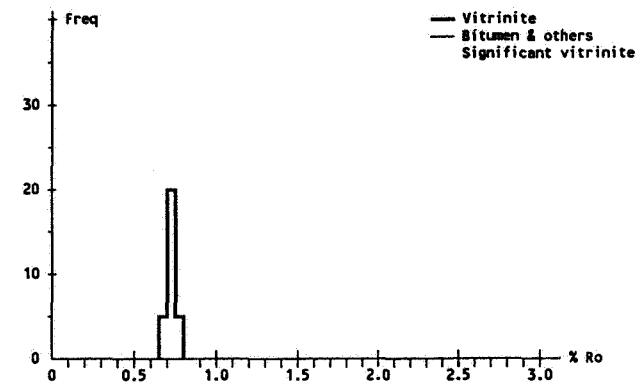
FLUORESCENCE:ORGANIC MATTER TYPE: HumicCOMMENTS:

Coal made up of telocollinite and pyrite (47%)

<u>WELL:</u> 25/4-6S	<u>Upper depth</u>: 3718.73 M
<u>LABORATORY SAMPLE CODE:</u> F910175B00000	<u>Lower depth</u>: 3718.73 M
	<u>Sample type</u>: CA
	<u>Preparation type</u>: MO

MEASUREMENTS

Vitrinite.....: .68 .70 .71 .71 .72 .73 .73 .73 .73
 .74 .74 .74 .74 .75 .75 .75 .75 .75
 .76 .76 .76 .77 .77 .77 .77 .78 .79
 .80 .81 .81

REFLECTANCE HISTOGRAM:

GROUP OF MEASUREMENTS	(RANGE)	NUMBER of READINGS	MEAN	STD. - DEV.	MODE
Reliable Vitrinite	.65 - .90%	30	.75	.03	.75

Code Mode: * = Undetermined, ** = Bimodal

MACERAL ESTIMATION:

VITRINITE (>75%)

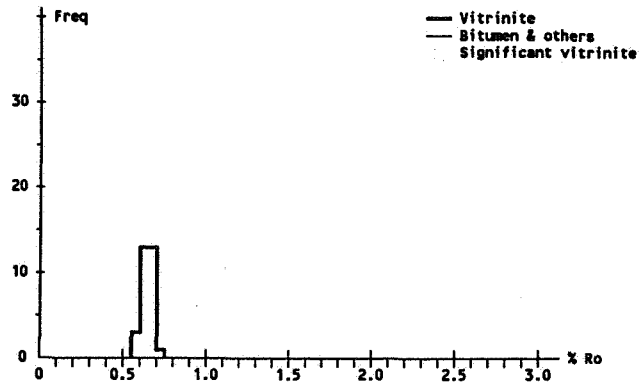
FLUORESCENCE:ORGANIC MATTER TYPE: HumicCOMMENTS:

Pure telocollinite coal - some pyrite

<u>WELL:</u> 25/4-6S	<u>Upper depth</u>: 3719.14 M
<u>LABORATORY SAMPLE CODE:</u> P910175B41968	<u>Lower depth</u>: 3719.14 M
	<u>Sample type</u>: CA
	<u>Preparation type</u>: MO

MEASUREMENTS

Vitrinite.....	.58	.60	.62	.63	.63	.63	.63	.64	.64
	.65	.65	.65	.66	.67	.67	.67	.68	.68
	.68	.68	.68	.69	.69	.69	.69	.69	.71
	.71	.71	.73						

REFLECTANCE HISTOGRAM:

GROUP OF MEASUREMENTS	(RANGE)	NUMBER of READINGS	MEAN	STD.-DEV.	MODE
Reliable Vitrinite	.50 - .80%	30	.66	.03	*

Code Mode: * = Undetermined, ** = Bimodal

MACERAL ESTIMATION:

VITRINITE (>75%)

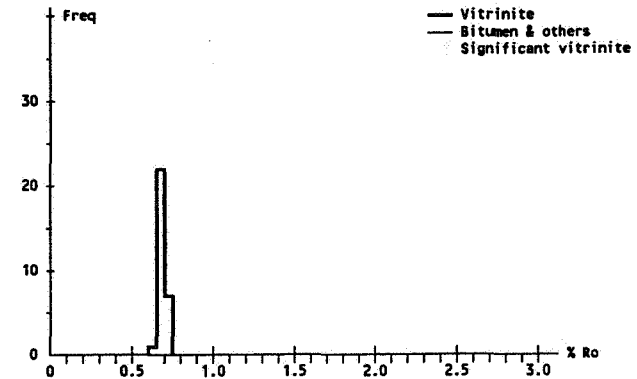
FLUORESCENCE:ORGANIC MATTER TYPE: HumicCOMMENTS:

Coal made up of telocollinite - Some pyrite

<u>WELL:</u> 25/4-6S	<u>Upper depth</u>: 3767.18 M
<u>LABORATORY SAMPLE CODE:</u> P910175B00000	<u>Lower depth</u>: 3767.18 M
	<u>Sample type</u>: CA
	<u>Preparation type</u>: MO

MEASUREMENTS

Vitrinite.....	.67	.68	.68	.68	.68	.68	.69	.69	.69
	.69	.69	.70	.70	.70	.70	.70	.71	.71
	.71	.71	.72	.72	.72	.73	.74	.74	.74
	.74	.76	.77						

REFLECTANCE HISTOGRAM:

GROUP OF MEASUREMENTS	(RANGE)	NUMBER of READINGS	MEAN	STD.-DEV.	MODE
Reliable Vitrinite	.60 - .80%	30	.71	.03	.7

Code Mode: * = Undetermined, ** = Bimodal

MACERAL ESTIMATION:

VITRINITE (>75%), INERTINITE (<5%)

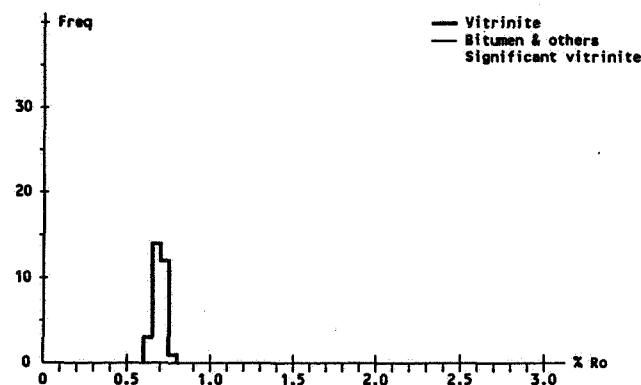
FLUORESCENCE:ORGANIC MATTER TYPE: HumicCOMMENTS:

Coal very rich in vitrinite

<u>WELL:</u> 25/4-6S	<u>Upper depth</u>: 3767.32 M
<u>LABORATORY SAMPLE CODE:</u> P910175B41969	<u>Lower depth</u>: 3767.32 M
	<u>Sample type</u>: CA
	<u>Preparation type</u>: MO

MEASUREMENTS

Vitrinite.....: .66 .67 .67 .68 .68 .68 .69 .69 .70
 .71 .71 .71 .71 .72 .72 .72 .72 .73
 .73 .73 .73 .73 .73 .73 .74 .74 .74
 .74 .76 .81

REFLECTANCE HISTOGRAM:

GROUP OF MEASUREMENTS	(RANGE)	NUMBER of READINGS	MEAN	STD.-DEV.	MODE
Reliable Vitrinite	.60 - .90%	30	.72	.03	.7

Code Mode: * = Undetermined, ** = Bimodal

MAGERAL ESTIMATION:

VITRINITE (>75%)

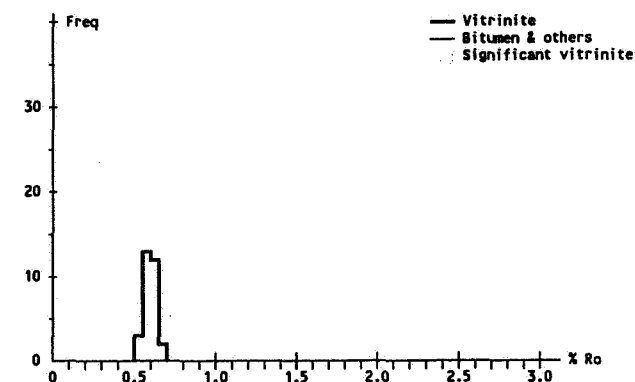
FLUORESCENCE:ORGANIC MATTER TYPE: HumicCOMMENTS:

Coal made up of telocollinite - Some pyrite

<u>WELL:</u> 25/4-6S	<u>Upper depth</u>: 3769.90 M
<u>LABORATORY SAMPLE CODE:</u> P910175B41970	<u>Lower depth</u>: 3769.95 M
	<u>Sample type</u>: CA
	<u>Preparation type</u>: MO

MEASUREMENTS

Vitrinite.....: .56 .57 .57 .58 .60 .60 .60 .61 .61
 .61 .62 .62 .62 .62 .62 .62 .63 .63
 .63 .64 .64 .64 .65 .65 .66 .66 .66
 .67 .72 .72

REFLECTANCE HISTOGRAM:

GROUP OF MEASUREMENTS	(RANGE)	NUMBER of READINGS	MEAN	STD.-DEV.	MODE
Reliable Vitrinite	.50 - .80%	30	.63	.04	.6

Code Mode: * = Undetermined, ** = Bimodal

MAGERAL ESTIMATION:

VITRINITE (50-75%), INERTINITE (25-50%), EXINITE (<5%), Pyrite occurrence

FLUORESCENCE:

Rare.....: Sporinite

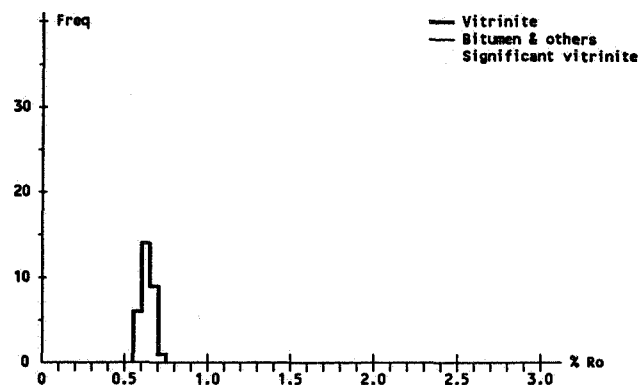
ORGANIC MATTER TYPE: HumicFLUORESCENCE INDEX: .5COMMENTS:

Trimacerite coal rich in pyrite

<u>WELL:</u> 25/4-6S	<u>Upper depth</u>: 3770.16 M
<u>LABORATORY SAMPLE CODE:</u> F910175B00000	<u>Lower depth</u>: 3770.17 M
	<u>Sample type</u>: CA
	<u>Preparation type</u>: MO

MEASUREMENTS

Vitrinite.....:	.60	.61	.61	.62	.62	.62	.63	.63	.63
	.63	.64	.64	.64	.64	.65	.65	.65	.66
	.66	.67	.68	.68	.69	.70	.70	.70	.71
	.72	.72	.73						

REFLECTANCE HISTOGRAM:

GROUP OF MEASUREMENTS	(RANGE)	NUMBER of READINGS	MEAN	STD.-DEV.	MODE
Reliable Vitrinite	.50 - .80%	30	.66	.04	.65

Code Mode: * - Undetermined, ** - Bimodal

MACERAL ESTIMATION:

VITRINITE (>75%), EXINITE (<5%)

FLUORESCENCE:

Rare.....: Sporinite
 Very rare.....: Cutinite, Resinite

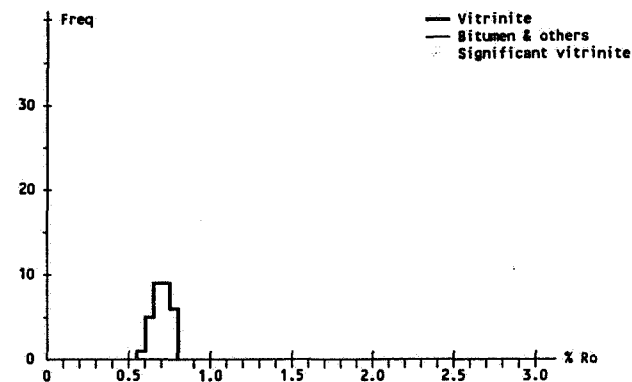
ORGANIC MATTER TYPE: HumicCOMMENTS:

Coal very rich in vitrinite

<u>WELL:</u> 25/4-6S	<u>Upper depth</u>: 3784.55 M
<u>LABORATORY SAMPLE CODE:</u> F910175B41971	<u>Lower depth</u>: 3784.70 M
	<u>Sample type</u>: CA
	<u>Preparation type</u>: MO

MEASUREMENTS

Vitrinite.....:	.58	.63	.64	.64	.66	.66	.69	.69	.70
	.71	.71	.72	.72	.72	.72	.73	.73	.74
	.74	.74	.75	.75	.75	.76	.78	.78	.79
	.79	.80	.80						

REFLECTANCE HISTOGRAM:

GROUP OF MEASUREMENTS	(RANGE)	NUMBER of READINGS	MEAN	STD.-DEV.	MODE
Reliable Vitrinite	.50 - .90%	30	.72	.05	*

Code Mode: * - Undetermined, ** - Bimodal

MACERAL ESTIMATION:

VITRINITE (25-50%), INERTINITE (50-75%), EXINITE (<5%)

FLUORESCENCE:

Very rare.....: Sporinite, Resinite

ORGANIC MATTER TYPE: HumicCOMMENTS:

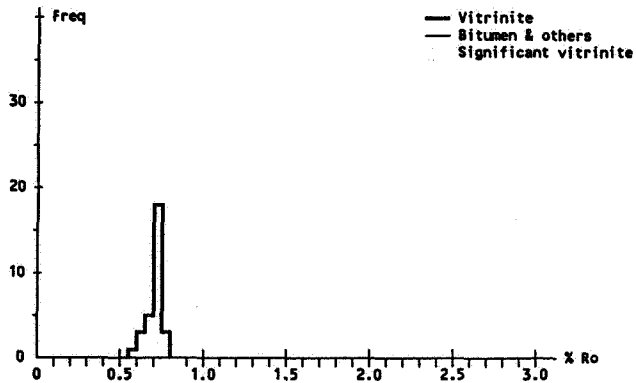
Trimacerite coal rich in pyrite

<u>WELL:</u> 25/4-6S	<u>Upper depth</u>: 3784.70 M
<u>LABORATORY SAMPLE CODE:</u> P910175B41972	<u>Lower depth</u>: 3784.85 M
	<u>Sample type</u>: CA
	<u>Preparation type</u>: MO

MEASUREMENTS

Vitrinite.....:	.62	.64	.66	.66	.69	.70	.71	.72	.72
	.73	.73	.73	.74	.74	.75	.75	.75	.75
	.75	.75	.75	.75	.76	.76	.77	.77	.77
	.78	.80	.82						

REFLECTANCE HISTOGRAM:



GROUP OF MEASUREMENTS	(RANGE)	NUMBER of READINGS	MEAN	STD.-DEV.	MODE
Reliable Vitrinite	.50 - .90%	30	.73	.04	.75

Code Mode: * = Undetermined, ** = Bimodal

MACERAL ESTIMATION:

VITRINITE (25-50%), INERTINITE (50-75%), EXINITE (<5%)

FLUORESCENCE:

Rare.....: Sporinite

ORGANIC MATTER TYPE: Humic

COMMENTS:

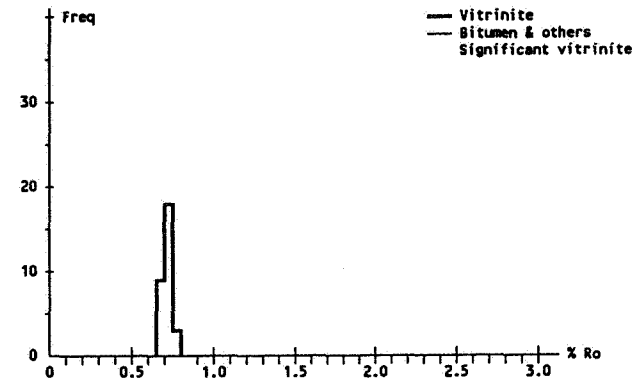
Trimacerite coal

<u>WELL:</u> 25/4-6S	<u>Upper depth</u>: 3788.45 M
<u>LABORATORY SAMPLE CODE:</u> P910175B41973	<u>Lower depth</u>: 3788.50 M
	<u>Sample type</u>: CA
	<u>Preparation type</u>: MO

MEASUREMENTS

Vitrinite.....:	.68	.69	.69	.69	.70	.70	.70	.71	.72
	.73	.73	.73	.74	.74	.74	.74	.75	.75
	.75	.76	.76	.76	.76	.76	.77	.77	.77
	.78	.79	.80						

REFLECTANCE HISTOGRAM:



GROUP OF MEASUREMENTS	(RANGE)	NUMBER of READINGS	MEAN	STD.-DEV.	MODE
Reliable Vitrinite	.60 - .90%	30	.74	.03	.75

Code Mode: * = Undetermined, ** = Bimodal

MACERAL ESTIMATION:

VITRINITE (50-75%), INERTINITE (25-50%), EXINITE (<5%)

FLUORESCENCE:

Rare.....: Sporinite, Tasmanaceae

Very rare....: Cutinite, Resinite

ORGANIC MATTER TYPE: Humic

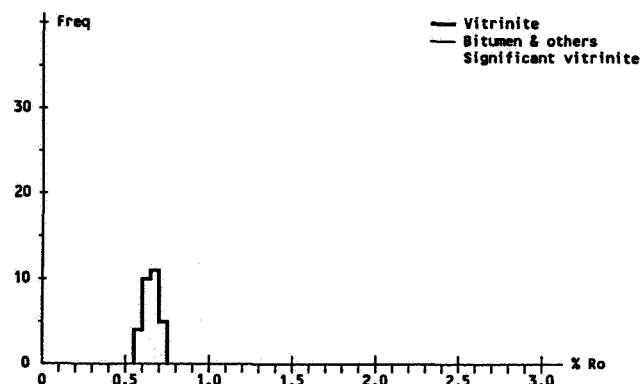
COMMENTS:

Trimacerite coal

<u>WELL:</u> 25/4-6S	<u>Upper depth</u>: 3802.25 M
<u>LABORATORY SAMPLE CODE:</u> P910175B41974	<u>Lower depth</u>: 3802.27 M
	<u>Sample type</u>: CA
	<u>Preparation type</u>: MO

MEASUREMENTS

Vitrinite.....:	.59	.60	.61	.62	.63	.64	.64	.64	.65
	.66	.66	.66	.67	.67	.68	.68	.68	.69
	.69	.69	.69	.70	.70	.72	.72	.73	.73
	.73	.74	.77						

REFLECTANCE HISTOGRAM:

GROUP OF MEASUREMENTS	(RANGE)	NUMBER of READINGS	MEAN	STD.-DEV.	MODE
Reliable Vitrinite	.50 - .90%	30	.68	.04	.7

Code Mode: * = Undetermined, ** = Bimodal

MACERAL ESTIMATION:

VITRINITE (50-75%), INERTINITE (<5%), EXINITE (<5%)

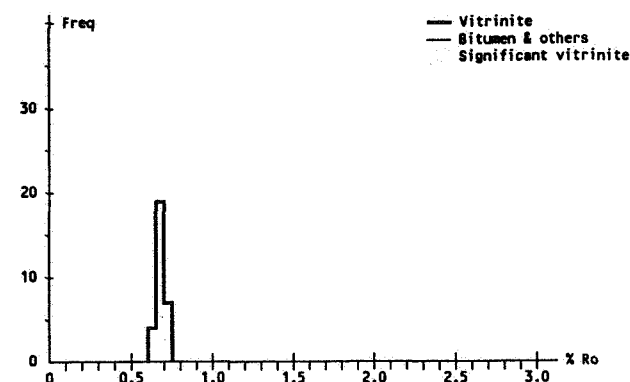
FLUORESCENCE:Rare.....: Sporinite, Organic groundmass
Very rare.....: Cutinite, ResiniteORGANIC MATTER TYPE: HumicFLUORESCENCE INDEX: .5COMMENTS:

Coal rich in vitrinite and pyrite

<u>WELL:</u> 25/4-6S	<u>Upper depth</u>: 3802.65 M
<u>LABORATORY SAMPLE CODE:</u> P910175B41975	<u>Lower depth</u>: 3802.85 M
	<u>Sample type</u>: CA
	<u>Preparation type</u>: MO

MEASUREMENTS

Vitrinite.....:	.65	.66	.66	.67	.68	.68	.68	.69	.69
	.69	.69	.70	.70	.70	.70	.70	.71	.71
	.71	.71	.71	.72	.72	.73	.74	.74	.74
	.76	.77	.77						

REFLECTANCE HISTOGRAM:

GROUP OF MEASUREMENTS	(RANGE)	NUMBER of READINGS	MEAN	STD.-DEV.	MODE
Reliable Vitrinite	.60 - .80%	30	.71	.03	.7

Code Mode: * = Undetermined, ** = Bimodal

MACERAL ESTIMATION:

VITRINITE (>75%), INERTINITE (5-25%), EXINITE (5-25%)

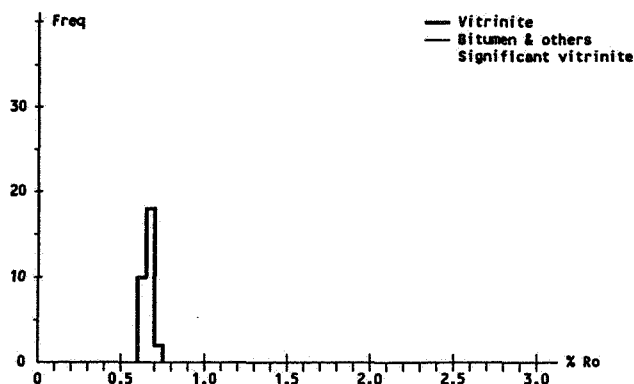
FLUORESCENCE:Frequent.....: Sporinite
Very rare.....: Cutinite, ResiniteORGANIC MATTER TYPE: HumicFLUORESCENCE INDEX: 1.0COMMENTS:

Trimacerite coal rich in sporinite

<u>WELL:</u> 25/4-6S	<u>Upper depth</u>: 3810.20 M
<u>LABORATORY SAMPLE CODE:</u> F910175B41976	<u>Lower depth</u>: 3810.25 M
	<u>Sample type</u>: CA
	<u>Preparation type</u>: MO

MEASUREMENTS

Vitrinite.....: .63 .63 .64 .65 .65 .65 .66 .66 .67
 .67 .68 .68 .68 .69 .69 .69 .69 .69
 .69 .70 .70 .70 .70 .71 .71 .71

REFLECTANCE HISTOGRAM:

GROUP OF MEASUREMENTS	(RANGE)	NUMBER of READINGS	MEAN	STD.-DEV.	MODE
Reliable Vitrinite	.60 - .80%	30	.68	.03	.7

Code Mode: * = Undetermined, ** = Bimodal

MACERAL ESTIMATION:

VITRINITE (50-75%), INERTINITE (5-25%), EXINITE (<5%)

FLUORESCENCE:

Rare.....: Sporinite
 Very rare.....: Cutinite, Resinite

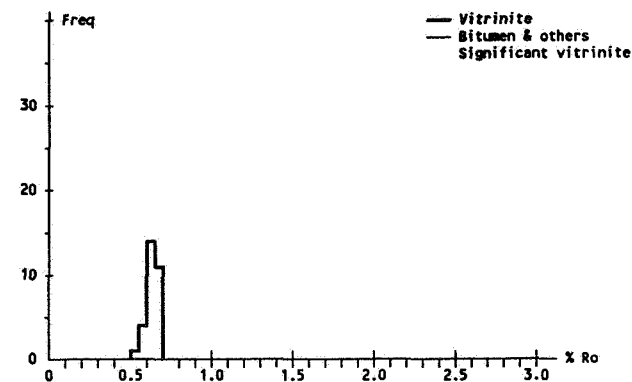
ORGANIC MATTER TYPE: HumicFLUORESCENCE INDEX: .5COMMENTS:

Trimacerite coal

<u>WELL:</u> 25/4-6S	<u>Upper depth</u>: 3820.15 M
<u>LABORATORY SAMPLE CODE:</u> F910175B41977	<u>Lower depth</u>: 3820.28 M
	<u>Sample type</u>: CA
	<u>Preparation type</u>: MO

MEASUREMENTS

Vitrinite.....: .55 .60 .60 .62 .62 .63 .63 .64 .64
 .65 .65 .65 .65 .66 .66 .66 .66 .67
 .67 .68 .68 .69 .69 .70 .70 .71 .71

REFLECTANCE HISTOGRAM:

GROUP OF MEASUREMENTS	(RANGE)	NUMBER of READINGS	MEAN	STD.-DEV.	MODE
Reliable Vitrinite	.50 - .80%	30	.66	.04	.65

Code Mode: * = Undetermined, ** = Bimodal

MACERAL ESTIMATION:

VITRINITE (>75%), INERTINITE (5-25%), EXINITE (<5%)

FLUORESCENCE:

Common.....: Sporinite
 Very rare.....: Cutinite, Resinite

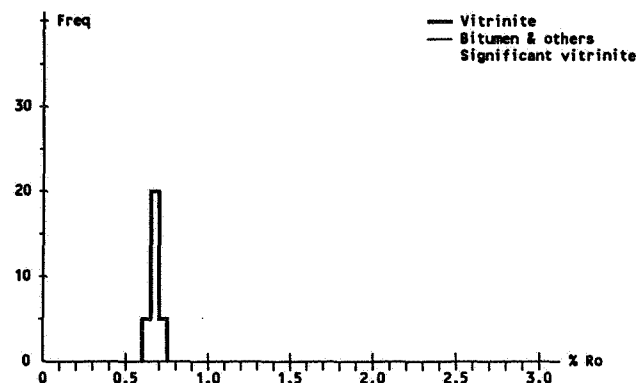
ORGANIC MATTER TYPE: HumicCOMMENTS:

Trimacerite coal

<u>WELL:</u> 25/4-6S	<u>Upper depth</u>: 3835.13 M
<u>LABORATORY SAMPLE CODE:</u> P910175B41978	<u>Lower depth</u>: 3835.35 M
	<u>Sample type</u>: CA
	<u>Preparation type</u>: MO

MEASUREMENTS

Vitrinite.....:	.64	.64	.65	.66	.67	.68	.68	.68	.68
	.69	.69	.69	.70	.70	.70	.70	.70	.70
	.71	.71	.71	.71	.71	.72	.72	.73	.73
	.74	.74	.75						

REFLECTANCE HISTOGRAM:

GROUP OF MEASUREMENTS	(RANGE)	NUMBER of READINGS	MEAN	STD.-DEV.	MODE
Reliable Vitrinite	.60 - .80%	30	.70	.03	.7

Code Mode: * - Undetermined, ** - Bimodal

MACERAL ESTIMATION:

VITRINITE (>75%), INERTINITE (5-25%), EXINITE (<5%)

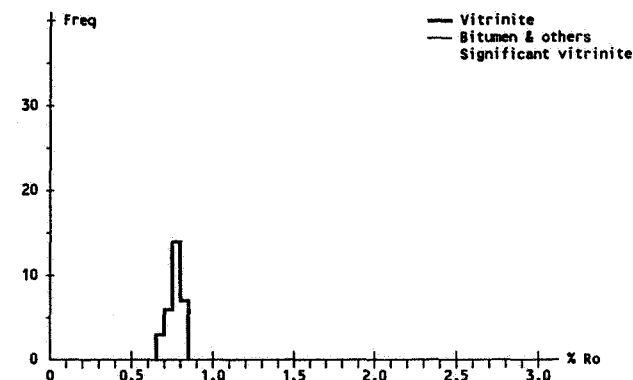
FLUORESCENCE:Common.....: Sporinite
Very rare.....: Cutinite, ResiniteORGANIC MATTER TYPE: HumicCOMMENTS:

Trimacerite coal

<u>WELL:</u> 25/4-6S	<u>Upper depth</u>: 3864.07 M
<u>LABORATORY SAMPLE CODE:</u> P910175B41979	<u>Lower depth</u>: 3864.30 M
	<u>Sample type</u>: CA
	<u>Preparation type</u>: MO

MEASUREMENTS

Vitrinite.....:	.71	.72	.72	.74	.76	.77	.77	.77	.77
	.78	.79	.79	.79	.80	.80	.80	.81	.81
	.81	.82	.82	.82	.82	.83	.83	.83	.83
	.84	.85	.86						

REFLECTANCE HISTOGRAM:

GROUP OF MEASUREMENTS	(RANGE)	NUMBER of READINGS	MEAN	STD.-DEV.	MODE
Reliable Vitrinite	.60 - .90%	30	.80	.04	.8

Code Mode: * - Undetermined, ** - Bimodal

MACERAL ESTIMATION:

VITRINITE (50-75%), INERTINITE (25-50%), EXINITE (<5%)

FLUORESCENCE:

Very rare.....: Sporinite, Resinite

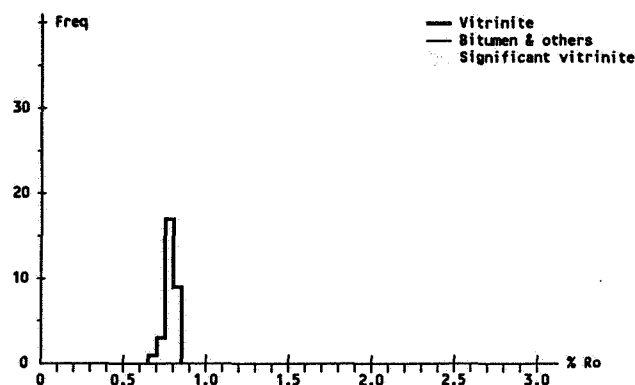
ORGANIC MATTER TYPE: HumicCOMMENTS:

Trimacerite coal

<u>WELL:</u> 25/4-6S	<u>Upper depth</u>	3864.30 M
<u>LABORATORY SAMPLE CODE:</u> P910175B41980	<u>Lower depth</u>	3864.50 M
	<u>Sample type</u>	CA
	<u>Preparation type</u>	MO

MEASUREMENTS

Vitrinite.....	.68	.74	.74	.74	.78	.78	.78	.78	.79
	.79	.79	.79	.80	.81	.81	.81	.81	.81
	.81	.82	.82	.83	.83	.84	.84	.84	.85
	.85	.85	.87						

REFLECTANCE HISTOGRAM:

GROUP OF MEASUREMENTS	(RANGE)	NUMBER of READINGS	MEAN	STD.-DEV.	MODE
Reliable Vitrinite	.60 - .90%	30	.80	.04	.8

Code Mode: * = Undetermined, ** = Bimodal

MACERAL ESTIMATION:

VITRINITE (50-75%), INERTINITE (25-50%), EXINITE (<5%)

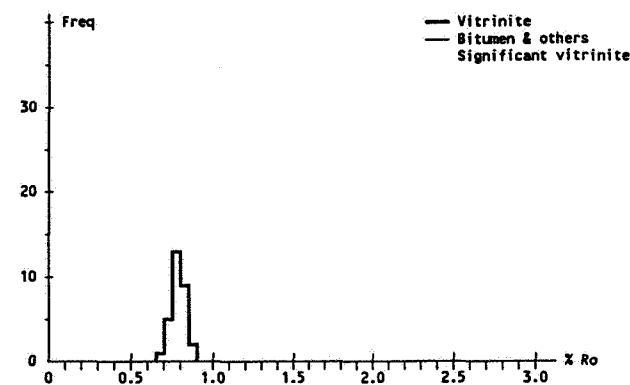
FLUORESCENCE:Rare.....: Resinite
Very rare....: SporiniteORGANIC MATTER TYPE: HumicFLUORESCENCE INDEX: .5COMMENTS:

Trimacerite coal

<u>WELL:</u> 25/4-6S	<u>Upper depth</u>	3864.50 M
<u>LABORATORY SAMPLE CODE:</u> P910175B41981	<u>Lower depth</u>	3864.80 M
	<u>Sample type</u>	CA
	<u>Preparation type</u>	MO

MEASUREMENTS

Vitrinite.....	.72	.73	.76	.77	.77	.77	.78	.79	.79
	.79	.80	.80	.80	.81	.81	.81	.81	.81
	.81	.84	.84	.84	.84	.85	.86	.86	.87
	.87	.88	.90						

REFLECTANCE HISTOGRAM:

GROUP OF MEASUREMENTS	(RANGE)	NUMBER of READINGS	MEAN	STD.-DEV.	MODE
Reliable Vitrinite	.60 - 1.00%	30	.81	.04	.8

Code Mode: * = Undetermined, ** = Bimodal

MACERAL ESTIMATION:

VITRINITE (50-75%), INERTINITE (25-50%), EXINITE (<5%)

FLUORESCENCE:

Very rare....: Sporinite, Cutinite, Resinite

ORGANIC MATTER TYPE: HumicCOMMENTS:

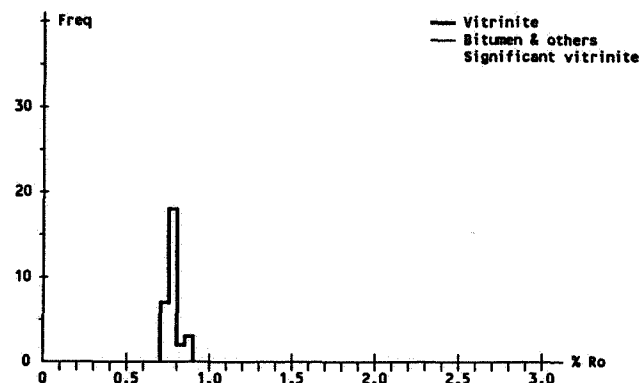
Trimacerite coal

<u>WELL:</u> 25/4-6S	<u>Upper depth</u>: 3864.80 M
<u>LABORATORY SAMPLE CODE:</u> F910175B41982	<u>Lower depth</u>: 3865.22 M
	<u>Sample type</u>: CA
	<u>Preparation type</u>: MO

MEASUREMENTS

Vitrinite.....	.73	.74	.74	.74	.76	.77	.77	.78	.78
	.78	.79	.79	.80	.80	.80	.80	.81	.81
	.81	.81	.81	.82	.82	.82	.82	.84	.87
	.88	.89	.89						

REFLECTANCE HISTOGRAM:



GROUP OF MEASUREMENTS	(RANGE)	NUMBER of READINGS	MEAN	STD.-DEV.	MODE
Reliable Vitrinite	.70 - 1.00%	30	.80	.04	.8

Code Mode: * = Undetermined, ** = Bimodal

MACERAL ESTIMATION:

VITRINITE (50-75%), INERTINITE (25-50%), EXINITE (<5%)

FLUORESCENCE:

Very rare.....: Sporinite, Cutinite, Resinite

ORGANIC MATTER TYPE: Humic

COMMENTS:

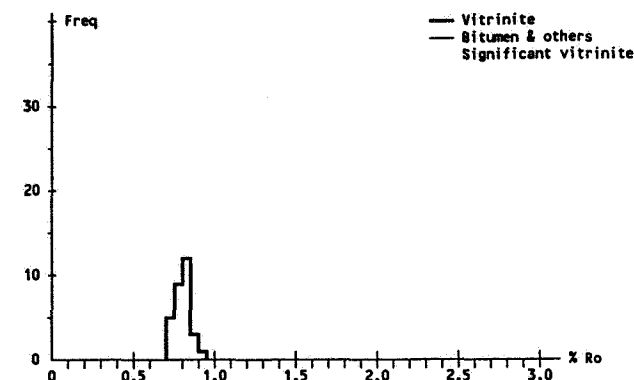
Trimacerite coal

<u>WELL:</u> 25/4-6S	<u>Upper depth</u>: 3866.05 M
<u>LABORATORY SAMPLE CODE:</u> F910175B41983	<u>Lower depth</u>: 3866.25 M
	<u>Sample type</u>: CA
	<u>Preparation type</u>: MO

MEASUREMENTS

Vitrinite.....	.73	.76	.77	.77	.77	.78	.78	.79	.79
	.81	.81	.82	.82	.82	.83	.84	.84	.85
	.85	.86	.86	.86	.86	.86	.86	.87	.88
	.89	.92	.93						

REFLECTANCE HISTOGRAM:



GROUP OF MEASUREMENTS	(RANGE)	NUMBER of READINGS	MEAN	STD.-DEV.	MODE
Reliable Vitrinite	.70 - 1.00%	30	.83	.05	.85

Code Mode: * = Undetermined, ** = Bimodal

MACERAL ESTIMATION:

VITRINITE (50-75%), INERTINITE (25-50%), EXINITE (<5%)

FLUORESCENCE:

Rare.....: Sporinite
Very rare.....: Cutinite

ORGANIC MATTER TYPE: Humic

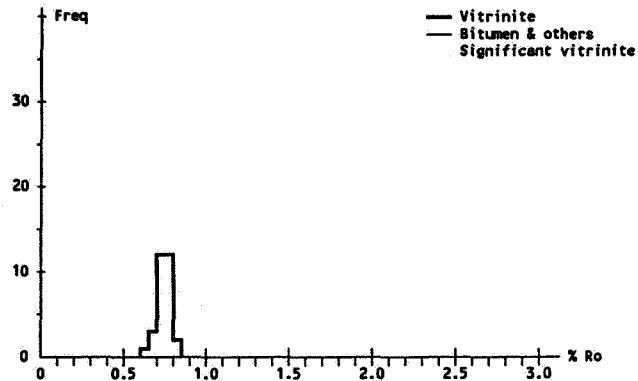
COMMENTS:

Trimacerite coal

<u>WELL:</u> 25/4-6S	<u>Upper depth</u>: 3866.30 M
<u>LABORATORY SAMPLE CODE:</u> P910175B41984	<u>Lower depth</u>: 3866.35 M
	<u>Sample type</u>: CA
	<u>Preparation type</u>: MO

MEASUREMENTS

Vitrinite.....:	.65	.69	.70	.71	.74	.74	.74	.75	.75
	.75	.76	.77	.77	.77	.77	.77	.78	.79
	.79	.79	.79	.79	.80	.80	.81	.81	.82
	.82	.84	.84						

REFLECTANCE HISTOGRAM:

GROUP OF MEASUREMENTS	(RANGE)	NUMBER of READINGS	MEAN	STD.-DEV.	MODE
Reliable Vitrinite	.60 - .90%	30	.77	.04	*

Code Mode: * - Undetermined, ** - Bimodal

MACERAL ESTIMATION:

VITRINITE (>75%), INERTINITE (5-25%), EXINITE (5-25%)

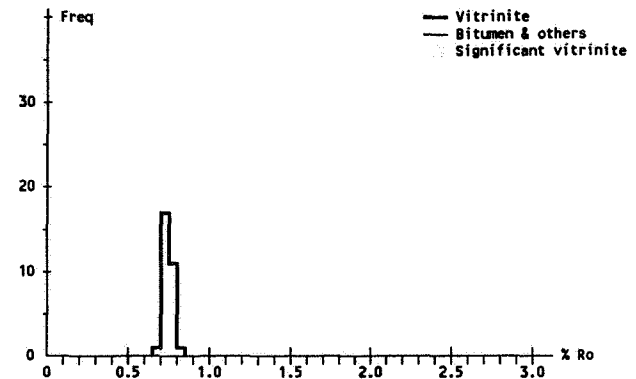
FLUORESCENCE:Common.....: Cutinite
Very rare.....: Sporinite, ResiniteORGANIC MATTER TYPE: HumicCOMMENTS:

Trimacerite coal

<u>WELL:</u> 25/4-6S	<u>Upper depth</u>: 3876.70 M
<u>LABORATORY SAMPLE CODE:</u> P910175B41985	<u>Lower depth</u>: 3876.75 M
	<u>Sample type</u>: CA
	<u>Preparation type</u>: MO

MEASUREMENTS

Vitrinite.....:	.71	.74	.74	.74	.75	.75	.75	.75	.76
	.76	.76	.76	.76	.76	.76	.76	.76	.77
	.78	.78	.78	.78	.79	.79	.79	.80	.80
	.80	.81	.83						

REFLECTANCE HISTOGRAM:

GROUP OF MEASUREMENTS	(RANGE)	NUMBER of READINGS	MEAN	STD.-DEV.	MODE
Reliable Vitrinite	.60 - .90%	30	.77	.02	.75

Code Mode: * - Undetermined, ** - Bimodal

MACERAL ESTIMATION:

VITRINITE (50-75%), INERTINITE (25-50%), EXINITE (<5%)

FLUORESCENCE:

Very rare.....: Cutinite, Resinite

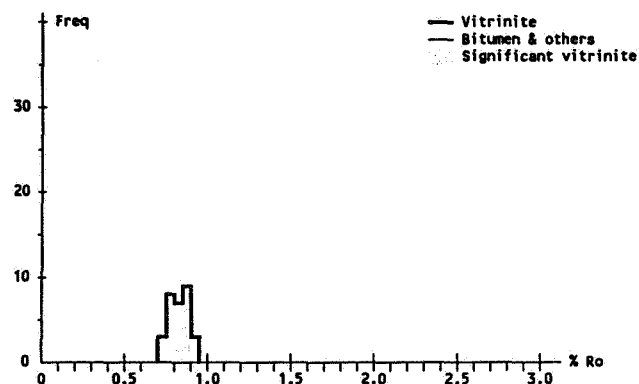
ORGANIC MATTER TYPE: HumicCOMMENTS:

Trimacerite coal

<u>WELL:</u>	<u>Upper depth</u>	3880.83 M
25/4-6S	<u>Lower depth</u>	3881.02 M
<u>LABORATORY SAMPLE CODE:</u>	<u>Sample type</u>	CA
P910175B41986	<u>Preparation type</u>	MO

MEASUREMENTS

Vitrinite.....	.76	.77	.77	.78	.79	.79	.80	.80	.80
	.81	.81	.84	.84	.85	.85	.87	.87	.87
	.88	.89	.89	.89	.91	.92	.92	.92	.92
	.93	.93	.96						

REFLECTANCE HISTOGRAM:

GROUP OF MEASUREMENTS	(RANGE)	NUMBER of READINGS	MEAN	STD.-DEV.	MODE
Reliable Vitrinite	.70 - 1.00%	30	.85	.06	.9

Code Mode: * = Undetermined, ** = Bimodal

MACERAL ESTIMATION:

VITRINITE (50-75%), INERTINITE (25-50%), EXINITE (<5%)

FLUORESCENCE:

Very rare.....: Sporinite, Cutinite, Resinite

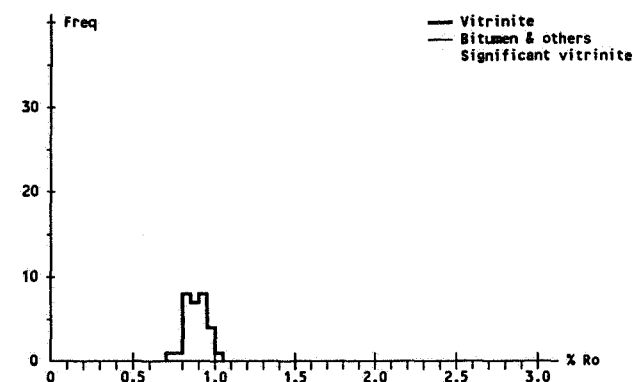
ORGANIC MATTER TYPE: HumicCOMMENTS:

Trimacerite coal

<u>WELL:</u>	<u>Upper depth</u>	3881.02 M
25/4-6S	<u>Lower depth</u>	3881.20 M
<u>LABORATORY SAMPLE CODE:</u>	<u>Sample type</u>	CA
P910175B41987	<u>Preparation type</u>	MO

MEASUREMENTS

Vitrinite.....	.75	.81	.85	.86	.86	.86	.86	.86	.87
	.87	.88	.90	.90	.90	.91	.92	.92	.93
	.93	.93	.94	.94	.96	.96	.97	.98	.98
	1.00	1.00	1.03						

REFLECTANCE HISTOGRAM:

GROUP OF MEASUREMENTS	(RANGE)	NUMBER of READINGS	MEAN	STD.-DEV.	MODE
Reliable Vitrinite	.70 - 1.10%	30	.91	.06	**

Code Mode: * = Undetermined, ** = Bimodal

MACERAL ESTIMATION:

VITRINITE (50-75%), INERTINITE (25-50%), EXINITE (<5%)

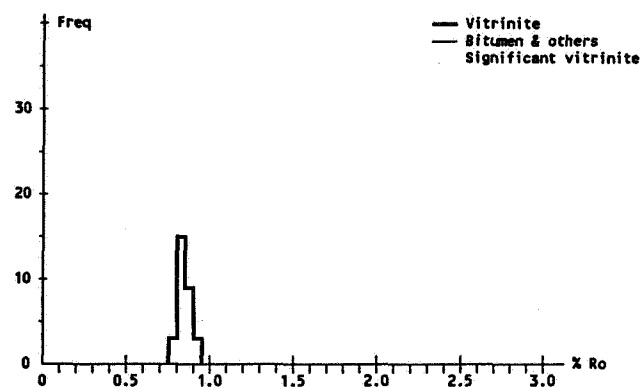
FLUORESCENCE:Rare.....: Sporinite
Very rare.....: Cutinite, ResiniteORGANIC MATTER TYPE: HumicCOMMENTS:

Trimacerite coal

<u>WELL:</u> 25/4-6S	<u>Upper depth</u>: 3881.20 M
<u>LABORATORY SAMPLE CODE:</u> P910175B41988	<u>Lower depth</u>: 3881.38 M
	<u>Sample type</u>: CA
	<u>Preparation type</u>: MO

MEASUREMENTS

Vitrinite.....: .79 .80 .81 .83 .83 .83 .83 .85 .85
 .85 .86 .86 .86 .86 .87 .87 .87 .87
 .88 .88 .88 .89 .89 .90 .90 .90 .91
 .93 .94 .94

REFLECTANCE HISTOGRAM:

GROUP OF MEASUREMENTS	(RANGE)	NUMBER of READINGS	MEAN	STD.-DEV.	MODE
Reliable Vitrinite	.70 - 1.00%	30	.87	.04	.85

Code Mode: * = Undetermined, ** = Bimodal

MACERAL ESTIMATION:

VITRINITE (25-50%), INERTINITE (25-50%), EXINITE (<5%)

FLUORESCENCE:

Very rare.....: Sporinite, Cutinite

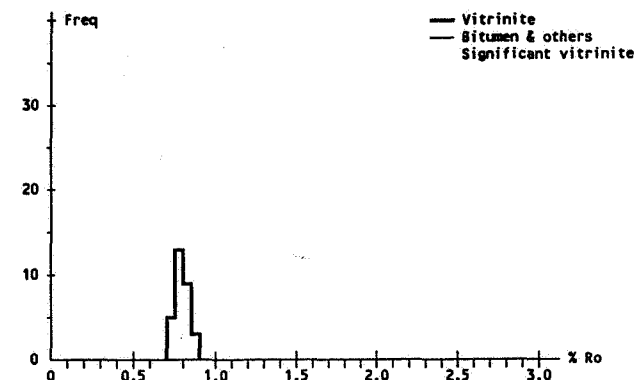
ORGANIC MATTER TYPE: HumicCOMMENTS:

Trimacerite coal

<u>WELL:</u> 25/4-6S	<u>Upper depth</u>: 3881.38 M
<u>LABORATORY SAMPLE CODE:</u> P910175B41989	<u>Lower depth</u>: 3881.56 M
	<u>Sample type</u>: CA
	<u>Preparation type</u>: MO

MEASUREMENTS

Vitrinite.....: .74 .75 .75 .77 .77 .78 .79 .81 .81
 .81 .81 .82 .82 .82 .82 .82 .82 .82
 .83 .83 .83 .84 .85 .86 .86 .86 .87
 .88 .88 .90

REFLECTANCE HISTOGRAM:

GROUP OF MEASUREMENTS	(RANGE)	NUMBER of READINGS	MEAN	STD.-DEV.	MODE
Reliable Vitrinite	.70 - 1.00%	30	.82	.04	.8

Code Mode: * = Undetermined, ** = Bimodal

MACERAL ESTIMATION:

VITRINITE (>75%), INERTINITE (5-25%), EXINITE (<5%)

FLUORESCENCE:

Rare.....: Sporinite

Very rare.....: Resinite

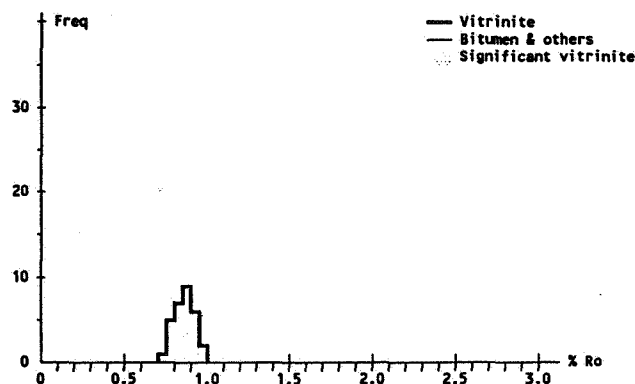
ORGANIC MATTER TYPE: HumicCOMMENTS:

Trimacerite coal

<u>WELL:</u> 25/4-6S	<u>Upper depth</u>: 3892.65 M
<u>LABORATORY SAMPLE CODE:</u> P910175B41990	<u>Lower depth</u>: 3893.75 M
	<u>Sample type</u>: CA
	<u>Preparation type</u>: MO

MEASUREMENTS

Vitrinite.....	.75	.78	.78	.80	.80	.82	.84	.86	.86
	.86	.86	.87	.87	.89	.89	.89	.89	.89
	.90	.90	.90	.90	.93	.93	.94	.94	.95
	.95	.98	1.00						

REFLECTANCE HISTOGRAM:

GROUP OF MEASUREMENTS	(RANGE)	NUMBER of READINGS	MEAN	STD.-DEV.	MODE
Reliable Vitrinite	.70 - 1.10%	30	.88	.06	.9

Code Mode: * - Undetermined, ** - Bimodal

MACERAL ESTIMATION:

VITRINITE (25-50%), INERTINITE (50-75%), EXINITE (5-25%)

FLUORESCENCE:

Common.....: Resinite
 Rare.....: Organic groundmass
 Very rare.....: Sporinite, Cutinite

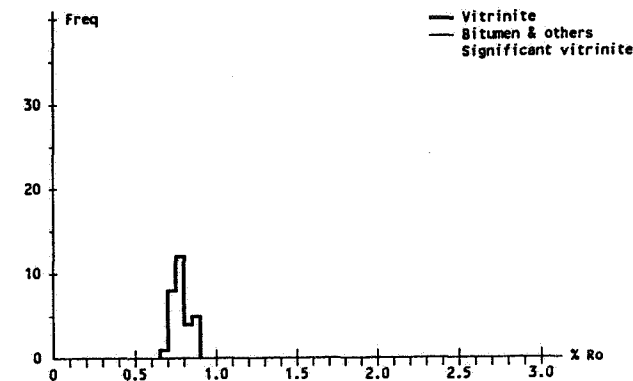
ORGANIC MATTER TYPE: HumicCOMMENTS:

Trimacerite coal with frequent mineral inclusions

<u>WELL:</u> 25/4-6S	<u>Upper depth</u>: 3894.25 M
<u>LABORATORY SAMPLE CODE:</u> P910175B41991	<u>Lower depth</u>: 3894.70 M
	<u>Sample type</u>: CA
	<u>Preparation type</u>: MO

MEASUREMENTS

Vitrinite.....	.71	.73	.73	.73	.74	.76	.76	.77	.77
	.78	.78	.79	.80	.80	.80	.81	.81	.81
	.81	.81	.82	.83	.84	.85	.85	.88	.88
	.88	.90	.90						

REFLECTANCE HISTOGRAM:

GROUP OF MEASUREMENTS	(RANGE)	NUMBER of READINGS	MEAN	STD.-DEV.	MODE
Reliable Vitrinite	.60 - 1.00%	30	.80	.05	.8

Code Mode: * - Undetermined, ** - Bimodal

MACERAL ESTIMATION:

VITRINITE (5-25%), INERTINITE (5-25%), EXINITE (<5%)

FLUORESCENCE:

Abundant.....: Organic groundmass
 Rare.....: Sporinite

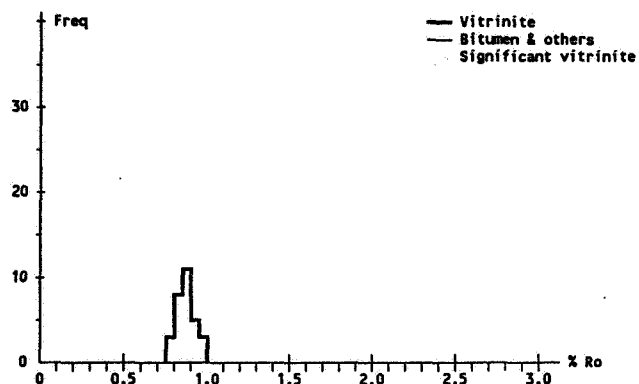
ORGANIC MATTER TYPE: HumicFLUORESCENCE INDEX: .5COMMENTS:

Trimacerite coal very rich in minerals

<u>WELL:</u> 25/4-6S	<u>Upper depth</u>: 3894.70 M
<u>LABORATORY SAMPLE CODE:</u> P910175B41992	<u>Lower depth</u>: 3895.25 M
	<u>Sample type</u>: CA
	<u>Preparation type</u>: MO

MEASUREMENTS

Vitrinite.....:	.80	.81	.82	.83	.83	.84	.84	.85	.86
	.86	.87	.88	.88	.88	.88	.89	.89	.89
	.89	.90	.91	.92	.93	.94	.96	.97	.97
	.98	.99	.99						

REFLECTANCE HISTOGRAM:

GROUP OF MEASUREMENTS	(RANGE)	NUMBER of READINGS	MEAN	STD.-DEV.	MODE
Reliable Vitrinite	.70 - 1.10%	30	.89	.05	.9

Code Mode: * - Undetermined, ** - Bimodal

MACERAL ESTIMATION:

VITRINITE (5-25%), INERTINITE (50-75%), EXINITE (<5%)

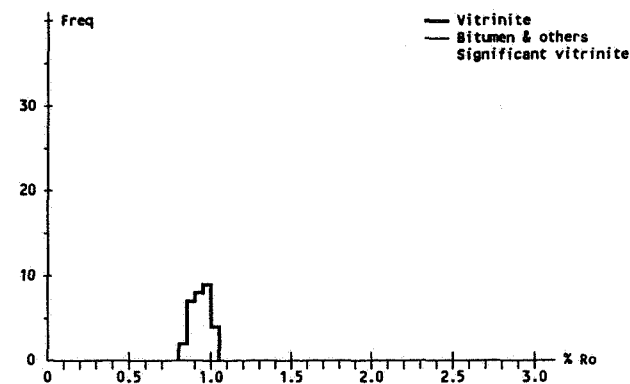
FLUORESCENCE:Common.....: Organic groundmass
Very rare.....: Sporinite, ResiniteORGANIC MATTER TYPE: HumicCOMMENTS:

Trimacerite coal rich in inertinite and minerals

<u>WELL:</u> 25/4-6S	<u>Upper depth</u>: 3895.25 M
<u>LABORATORY SAMPLE CODE:</u> P910175B41993	<u>Lower depth</u>: 3895.75 M
	<u>Sample type</u>: CA
	<u>Preparation type</u>: MO

MEASUREMENTS

Vitrinite.....:	.87	.87	.89	.89	.90	.90	.91	.92	.92
	.93	.94	.95	.95	.96	.96	.97	.97	.98
	.98	.99	1.00	1.00	1.01	1.01	1.02	1.02	1.04
	1.05	1.05	1.06						

REFLECTANCE HISTOGRAM:

GROUP OF MEASUREMENTS	(RANGE)	NUMBER of READINGS	MEAN	STD.-DEV.	MODE
Reliable Vitrinite	.80 - 1.10%	30	.96	.05	1

Code Mode: * - Undetermined, ** - Bimodal

MACERAL ESTIMATION:

VITRINITE (25-50%), INERTINITE (50-75%), EXINITE (<5%)

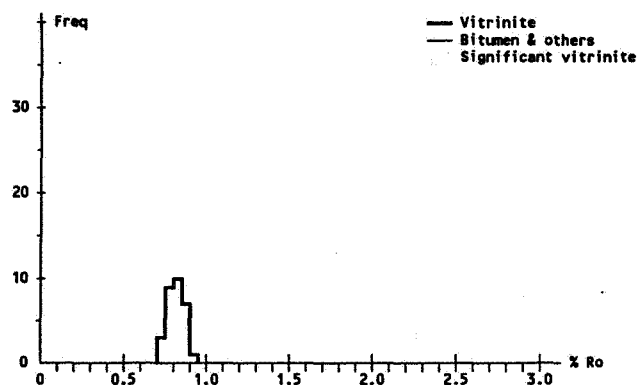
FLUORESCENCE:Common.....: Organic groundmass
Very rare.....: SporiniteORGANIC MATTER TYPE: HumicCOMMENTS:

Trimacerite coal rich in inertinite and minerals

<u>WELL:</u> 25/4-6S	<u>Upper depth</u>: 3899.50 M
<u>LABORATORY SAMPLE CODE:</u> P910175B41994	<u>Lower depth</u>: 3899.50 M
	<u>Sample type</u>: CA
	<u>Preparation type</u>: MO

MEASUREMENTS

Vitrinite.....:	.76	.76	.76	.78	.78	.79	.79	.80	.80
	.81	.81	.81	.83	.83	.83	.83	.84	.84
	.85	.85	.86	.87	.88	.88	.89	.89	.90
	.91	.92	.93						

REFLECTANCE HISTOGRAM:

GROUP OF MEASUREMENTS	(RANGE)	NUMBER of READINGS	MEAN	STD.-DEV.	MODE
Reliable Vitrinite	.70 - 1.00%	30	.84	.05	.85

Code Mode: * - Undetermined, ** - Bimodal

MACERAL ESTIMATION:

VITRINITE (>75%)

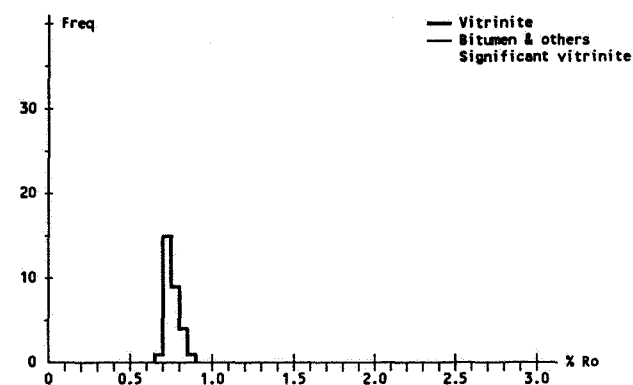
FLUORESCENCE:ORGANIC MATTER TYPE: HumicCOMMENTS:

Pure telocollinite coal

<u>WELL:</u> 25/4-6S	<u>Upper depth</u>: 3899.67 M
<u>LABORATORY SAMPLE CODE:</u> P910175B41995	<u>Lower depth</u>: 3899.67 M
	<u>Sample type</u>: CA
	<u>Preparation type</u>: MO

MEASUREMENTS

Vitrinite.....:	.71	.73	.74	.75	.75	.75	.76	.76	.76
	.76	.76	.77	.77	.77	.77	.77	.78	.79
	.79	.80	.80	.81	.81	.81	.82	.83	.84
	.85	.85	.90						

REFLECTANCE HISTOGRAM:

GROUP OF MEASUREMENTS	(RANGE)	NUMBER of READINGS	MEAN	STD.-DEV.	MODE
Reliable Vitrinite	.60 - 1.00%	30	.79	.04	.75

Code Mode: * - Undetermined, ** - Bimodal

MACERAL ESTIMATION:

VITRINITE (>75%), EXINITE (<5%)

FLUORESCENCE:

Very rare.....: Resinite

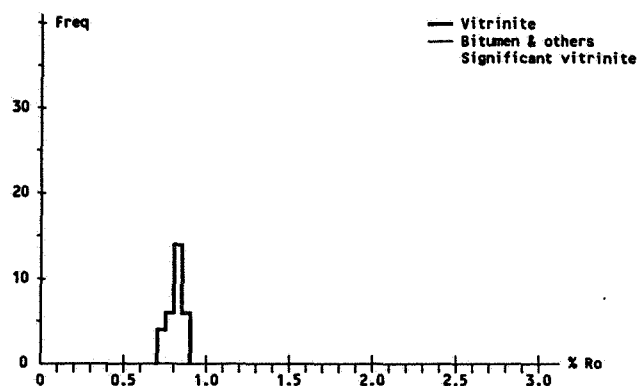
ORGANIC MATTER TYPE: HumicCOMMENTS:

Coal very rich in vitrinite

<u>WELL:</u> 25/4-6S	<u>Upper depth</u>: 3901.15 M
<u>LABORATORY SAMPLE CODE:</u> P910175B41996	<u>Lower depth</u>: 3901.15 M
	<u>Sample type</u>: CA
	<u>Preparation type</u>: MO

MEASUREMENTS

Vitrinite.....: .73 .74 .74 .75 .80 .80 .81 .82 .82
.82 .83 .83 .83 .83 .83 .83 .84 .84
.85 .85 .86 .87 .87 .87 .88 .88 .88
.89 .89 .90

REFLECTANCE HISTOGRAM:

GROUP OF MEASUREMENTS	(RANGE)	NUMBER of READINGS	MEAN	STD. - DEV.	MODE
Reliable Vitrinite	.70 - 1.00%	30	.83	.05	.85

Code Mode: * = Undetermined, ** = Bimodal

MACERAL ESTIMATION:

VITRINITE (>75%)

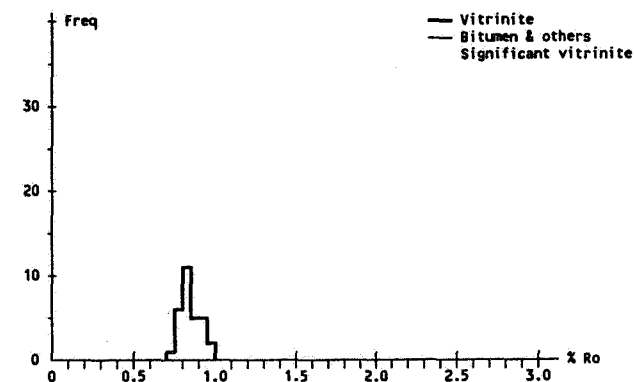
FLUORESCENCE:ORGANIC MATTER TYPE: HumicCOMMENTS:

Pure telocollinite coal

<u>WELL:</u> 25/4-6S	<u>Upper depth</u>: 3910.00 M
<u>LABORATORY SAMPLE CODE:</u> P910175B00000	<u>Lower depth</u>: 3915.00 M
	<u>Sample type</u>: DE
	<u>Preparation type</u>: MO

MEASUREMENTS

Vitrinite.....: .74 .78 .79 .80 .80 .80 .81 .83 .84
.84 .85 .86 .86 .86 .86 .87 .87 .87
.88 .88 .89 .90 .92 .93 .93 .93 .95
.97 .98 .99

REFLECTANCE HISTOGRAM:

GROUP OF MEASUREMENTS	(RANGE)	NUMBER of READINGS	MEAN	STD. - DEV.	MODE
Reliable Vitrinite	.70 - 1.05%	30	.87	.06	.85

Code Mode: * = Undetermined, ** = Bimodal

MACERAL ESTIMATION:

VITRINITE (50-75%), INERTINITE (5-25%), EXINITE (<5%)

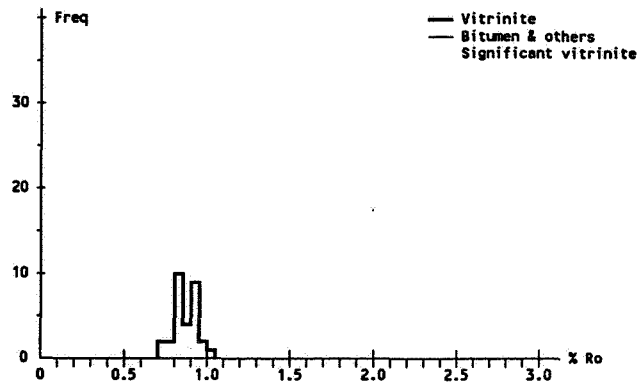
FLUORESCENCE:Common.....: Organic groundmass
Very rare.....: SporiniteORGANIC MATTER TYPE: HumicCOMMENTS:

Trimacerite coal rich in minerals

<u>WELL:</u> 25/4-6S	<u>Upper depth</u>	3950.00 M
<u>LABORATORY SAMPLE CODE:</u> P910175B43519	<u>Lower depth</u>	3955.00 M
	<u>Sample type</u>	DE
	<u>Preparation type</u>	MO

MEASUREMENTS

Vitrinite.....: .76 .77 .81 .81 .83 .83 .83 .83 .84
 .85 .86 .87 .87 .87 .88 .89 .90 .91
 .93 .94 .94 .94 .94 .94 .95 .95 .95
 1.00 1.00 1.06

REFLECTANCE HISTOGRAM:

GROUP OF MEASUREMENTS	(RANGE)	NUMBER of READINGS	MEAN	STD.-DEV.	MODE
Reliable Vitrinite	.70 - 1.10%	30	.89	.07	.85

Code Mode: * = Undetermined, ** = Bimodal

MACERAL ESTIMATION:

VITRINITE (25-50%), INERTINITE (25-50%), EXINITE (<5%)

FLUORESCENCE:

Rare.....: Sporinite, Tasmanaceae, Organic groundmass

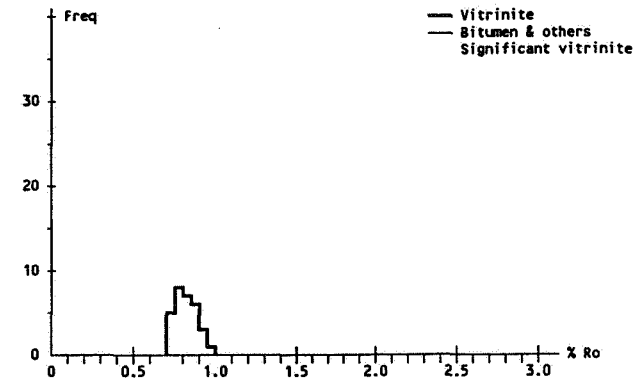
ORGANIC MATTER TYPE: HumicCOMMENTS:

Typical coal with various aspect, Rare dark Tasmanaceae (eqVRO=0.90%) - Pale groundmass, Moderate occurrence of mud additives

<u>WELL:</u> 25/4-6S	<u>Upper depth</u>	4020.00 M
<u>LABORATORY SAMPLE CODE:</u> P910175B43588	<u>Lower depth</u>	4020.00 M
	<u>Sample type</u>	DE
	<u>Preparation type</u>	MO

MEASUREMENTS

Vitrinite.....: .73 .75 .76 .77 .77 .78 .78 .78 .80
 .80 .81 .82 .82 .83 .83 .83 .84 .84
 .87 .87 .88 .88 .90 .90 .92 .92 .94
 .95 .97 .99

REFLECTANCE HISTOGRAM:

GROUP OF MEASUREMENTS	(RANGE)	NUMBER of READINGS	MEAN	STD.-DEV.	MODE
Reliable Vitrinite	.70 - 1.10%	30	.84	.07	.8

Code Mode: * = Undetermined, ** = Bimodal

MACERAL ESTIMATION:

VITRINITE (50-75%), INERTINITE (25-50%), EXINITE (<5%)

FLUORESCENCE:

Rare.....: Organic groundmass

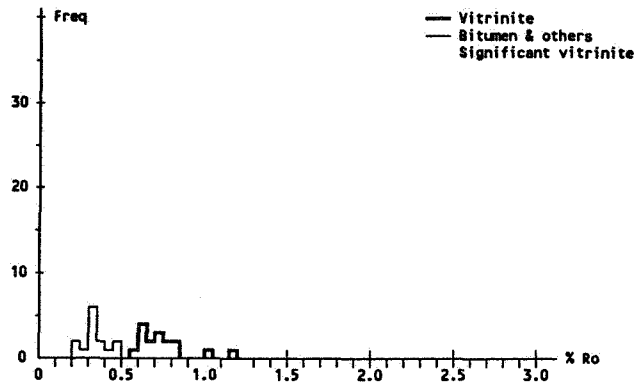
ORGANIC MATTER TYPE: HumicCOMMENTS:

Typical coal with various aspect, Rare pale groundmass - Abundant mud additives (lignite).

WELL: 25/4-6S	Upper depth.....	4061.85 M
LABORATORY SAMPLE CODE: P910175B44178	Lower depth.....	4061.85 M
	Sample type.....	CA
	Preparation type.....	MO

MEASUREMENTS

Vitrinite.....	.58	.65	.66	.66	.67	.68	.72	.73	.76
Others.....	.77	.79	.80	.83	.85	1.05	1.20		
	.27	.27	.30	.33	.34	.34	.35	.35	.37
	.42	.42	.46	.50	.52				

REFLECTANCE HISTOGRAM:

GROUP OF MEASUREMENTS	(RANGE)	NUMBER of READINGS	MEAN	STD.-DEV.	MODE
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Code Mode: * = Undetermined, ** = Bimodal

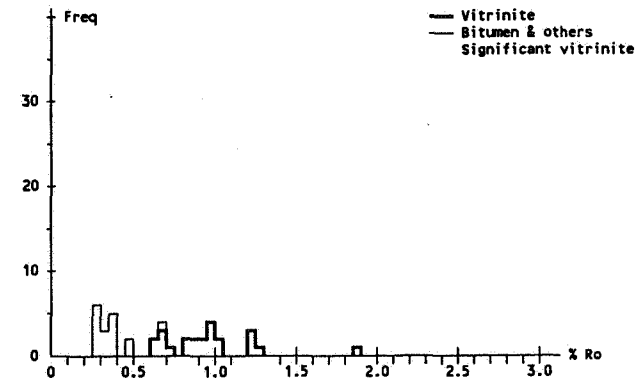
MACERAL ESTIMATION:**FLUORESCENCE:****ORGANIC MATTER TYPE:** Undetermined**COMMENTS:**

Frequent inertinite - some vitrinite and/or bitumen, Abundant mud additives,

WELL: 25/4-6S	Upper depth.....	4069.50 M
LABORATORY SAMPLE CODE: P910175B44180	Lower depth.....	4069.50 M
	Sample type.....	CA
	Preparation type.....	MO

MEASUREMENTS

Vitrinite.....	.63	.64	.69	.71	.72	.74	.85	.87	.91
Others.....	.92	.94	.96	.98	.99	.99	.99	1.07	1.07
	1.24	1.24	1.25	1.28	1.89				
	.29	.31	.31	.32	.32	.32	.33	.35	.36
	.38	.39	.39	.39	.42	.49	.51	.68	

REFLECTANCE HISTOGRAM:

GROUP OF MEASUREMENTS	(RANGE)	NUMBER of READINGS	MEAN	STD.-DEV.	MODE
Vitrinite	.80 - 1.10%	12	.96	.07	1

Code Mode: * = Undetermined, ** = Bimodal

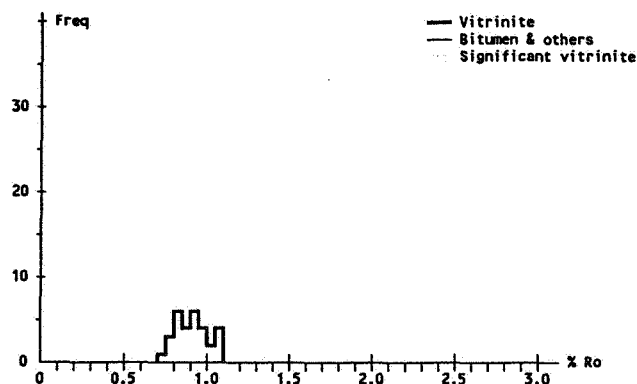
MACERAL ESTIMATION:**VITRINITE (5-25%), INERTINITE (>75%)****FLUORESCENCE:****ORGANIC MATTER TYPE:** Undetermined**COMMENTS:**

Abundant inertinite - Frequent mud additives, Some vitrinite and/or bitumen,

WELL: 25/4-6S	Upper depth..... 4128.80 M
LABORATORY SAMPLE CODE: F910175B44183	Lower depth..... 4128.80 M
	Sample type..... CA
	Preparation type..... MO

MEASUREMENTS

Vitrinite.....	.77	.78	.79	.80	.83	.85	.85	.86	.87
	.87	.89	.90	.91	.91	.93	.93	.93	.95
	.97	.97	.98	1.01	1.01	1.02	1.07	1.07	1.08
	1.09	1.10	1.12						

REFLECTANCE HISTOGRAM:

GROUP OF MEASUREMENTS	(RANGE)	NUMBER of READINGS	MEAN	STD.-DEV.	MODE
Vitrinite	.70 - 1.15%	30	.94	.10	**

Code Mode: * = Undetermined, ** = Bimodal

MACERAL ESTIMATION:

VITRINITE (<5%), INERTINITE (>75%)

FLUORESCENCE:

Rare.....: Organic groundmass

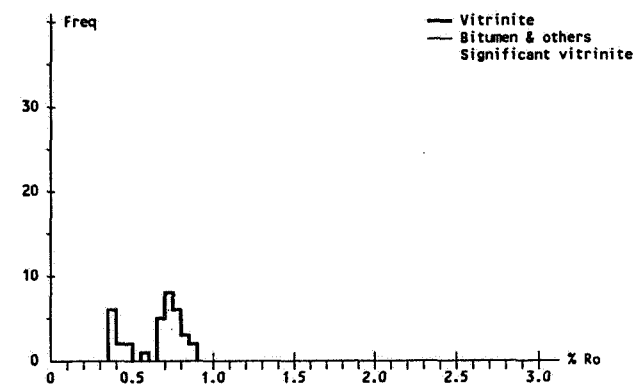
ORGANIC MATTER TYPE: HumicCOMMENTS:

Numerous inertinite - rare vitrinite, Some pale brown groundmass

WELL: 25/4-6S	Upper depth..... 4132.80 M
LABORATORY SAMPLE CODE: F910175B44202	Lower depth..... 4132.80 M
	Sample type..... CA
	Preparation type..... MO

MEASUREMENTS

Fluorescent vitrinite...	.40	.40	.41	.41	.42	.42	.45	.46	.48
	.49	.62	.70	.70	.70	.71	.71	.73	.74
	.74	.75	.77	.77	.77	.77	.78	.79	.80
	.81	.82	.82	.85	.86	.86	.88	.89	

REFLECTANCE HISTOGRAM:

GROUP OF MEASUREMENTS	(RANGE)	NUMBER of READINGS	MEAN	STD.-DEV.	MODE
Fluorescent Vitrinite	.65 - 1.00%	24	.78	.06	.75

Code Mode: * = Undetermined, ** = Bimodal

MACERAL ESTIMATION:

VITRINITE (25-50%), INERTINITE (25-50%), Pyrite occurrence

FLUORESCENCE:

Frequent.....: Fluorescent vitrinite

Rare.....: Organic groundmass

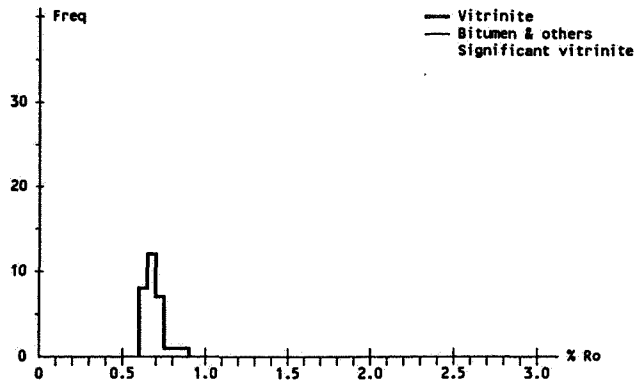
ORGANIC MATTER TYPE: HumicFLUORESCENCE INDEX: .5COMMENTS:

Abundant typical coal rich in vitrinite and semifusinite, Rare pale groundmass

<u>WELL:</u> 25/4-6S	<u>Upper depth</u>: 4133.90 M
<u>LABORATORY SAMPLE CODE:</u> P910175B44203	<u>Lower depth</u>: 4133.95 M
	<u>Sample type</u>: CA
	<u>Preparation type</u>: MO

MEASUREMENTS

Fluorescent vitrinite... .64 .65 .65 .67 .67 .67 .67 .67 .68
 .68 .69 .69 .69 .70 .70 .71 .71 .72
 .72 .72 .73 .73 .73 .73 .74 .74 .74
 .78 .83 .88

REFLECTANCE HISTOGRAM:

GROUP OF MEASUREMENTS	(RANGE)	NUMBER of READINGS	MEAN	STD.-DEV.	MODE
Fluorescent Vitrinite	.60 - 1.00%	30	.71	.05	.7

Code Mode: * = Undetermined, ** = Bimodal

MACERAL ESTIMATION:

VITRINITE (50-75%), INERTINITE (25-50%), Pyrite occurrence

FLUORESCENCE:

Frequent.....: Fluorescent vitrinite
 Rare.....: Organic groundmass

ORGANIC MATTER TYPE: Humic

FLUORESCENCE INDEX: .5

COMMENTS:

Abundant typical coal rich in fluorescent vitrinite and semifusinite, Rare pale groundmass

WELL : 25/4-6S

COUNTRY : NO

1 - Sample : 3717.40 3717.40 Type : CA Core number : K2
376 : VITRITE
102 : CARBOPYRITE VITRITE
27 : STERIL MINERAL
495 : STERIL PYRITE

2 - Sample : 3718.73 3718.73 Type : CA Core number : K2
809 : VITRITE
168 : CARBOPYRITE VITRITE
23 : STERIL PYRITE

3 - Sample : 3719.14 3719.14 Type : CA Core number : K2
827 : VITRITE
23 : CARBOPYRITE VITRITE
37 : STERIL MINERAL
53 : STERIL PYRITE

4 - Sample : 3767.18 3767.18 Type : CA Core number : K4
805 : VITRITE
16 : FUSITE
5 : CLARITE
4 : VITRINERTITE
123 : CARBOPYRITE VITRITE
2 : CARBOPYRITE FUSITE
2 : CARBOPYRITE CLARITE
1 : CARBOMINERITE VITRITE
8 : STERIL MINERAL
34 : STERIL PYRITE

5 - Sample : 3767.32 3767.32 Type : CA Core number : K4
726 : VITRITE
247 : CARBOPYRITE VITRITE
9 : STERIL MINERAL
18 : STERIL PYRITE

WELL : 25/4-6S

COUNTRY : NO

6 - Sample : 3769.90 3769.95 Type : CA Core number : K4
203 : VITRITE
133 : FUSITE
53 : CLARITE
177 : VITRINERTITE
67 : DUROCLARITE
10 : CLARODURITE
59 : CARBOPYRITE VITRITE
11 : CARBOPYRITE CLARITE
42 : CARBOPYRITE VITRINERTITE
17 : CARBOPYRITE DUROCLARITE
11 : CARBOMINERITE VITRITE
2 : CARBOMINERITE VITRINERTITE
2 : CARBOMINERITE DUROCLARITE
4 : CARBOMINERITE CARBOPYRITE VITRITE
32 : STERIL MINERAL
177 : STERIL PYRITE

7 - Sample : 3770.16 3770.17 Type : CA Core number : K4
745 : VITRITE
146 : CLARITE
4 : VITRINERTITE
4 : DUROCLARITE
51 : CARBOPYRITE VITRITE
10 : CARBOPYRITE CLARITE
6 : CARBOMINERITE VITRITE
34 : STERIL PYRITE

8 - Sample : 3784.55 3784.70 Type : CA Core number : K5
51 : VITRITE
306 : FUSITE
2 : CLARITE
2 : DURITE
407 : VITRINERTITE
84 : DUROCLARITE
35 : CLARODURITE
2 : VITRINERTOLIPTITE
9 : CARBOPYRITE VITRITE
5 : CARBOPYRITE FUSITE
26 : CARBOPYRITE VITRINERTITE
9 : CARBOPYRITE DUROCLARITE
2 : STERIL MINERAL
60 : STERIL PYRITE

WELL : 25/4-6S

COUNTRY : NO

9 - Sample : 3784.70 3784.85 Type : CA Core number : K5
148 : VITRITE
2 : LIPTITE
337 : FUSITE
27 : CLARITE
16 : DURITE
263 : VITRINERTITE
105 : DUROCLARITE
51 : CLARODURITE
16 : CARBOPYRITE VITRITE
2 : CARBOPYRITE FUSITE
8 : CARBOPYRITE VITRINERTITE
1 : CARBOPYRITE CLARODURITE
2 : CARBOMINERITE VITRITE
4 : CARBOMINERITE FUSITE
2 : STERIL MINERAL
16 : STERIL PYRITE

10 - Sample : 3788.45 3788.50 Type : CA Core number : K5
264 : VITRITE
2 : LIPTITE
206 : FUSITE
28 : CLARITE
6 : DURITE
300 : VITRINERTITE
123 : DUROCLARITE
47 : CLARODURITE
2 : VITRINERTOLIPTITE
6 : CARBOPYRITE VITRITE
2 : CARBOPYRITE FUSITE
9 : CARBOPYRITE VITRINERTITE
1 : CARBOMINERITE FUSITE
2 : STERIL MINERAL
2 : STERIL PYRITE

WELL : 25/4-6S

COUNTRY : NO

11 - Sample : 3802.25 3802.27 Type : CA Core number : K6
328 : VITRITE
116 : CLARITE
34 : VITRINERTITE
49 : DUROCLARITE
2 : CLARODURITE
97 : CARBOPYRITE VITRITE
47 : CARBOPYRITE CLARITE
14 : CARBOPYRITE VITRINERTITE
20 : CARBOPYRITE DUROCLARITE
27 : CARBOMINERITE VITRITE
2 : CARBOMINERITE FUSITE
18 : CARBOMINERITE CLARITE
38 : CARBOMINERITE VITRINERTITE
16 : CARBOMINERITE DUROCLARITE
2 : CARBOMINERITE CLARODURITE
2 : CARBOMINERITE VITRINERTOLIPTITE
25 : CARBOMINERITE CARBOPYRITE VITRITE
16 : CARBOMINERITE CARBOPYRITE CLARITE
22 : CARBOMINERITE CARBOPYRITE VITRINERTITE
27 : CARBOMINERITE CARBOPYRITE DUROCLARITE
1 : CARBOMINERITE CARBOPYRITE CLARODURITE
36 : STERIL MINERAL
61 : STERIL PYRITE

12 - Sample : 3802.65 3802.85 Type : CA Core number : K6
441 : VITRITE
6 : LIPTITE
26 : FUSITE
281 : CLARITE
11 : DURITE
40 : VITRINERTITE
118 : DUROCLARITE
13 : CLARODURITE
15 : VITRINERTOLIPTITE
15 : CARBOPYRITE VITRITE
4 : CARBOMINERITE FUSITE
2 : CARBOMINERITE DUROCLARITE
2 : CARBOMINERITE CARBOPYRITE VITRITE
26 : STERIL PYRITE

WELL : 25/4-6S

COUNTRY : NO

13 - Sample : 3810.20 3810.25 Type : CA Core number : K6
369 : VITRITE
160 : FUSITE
112 : CLARITE
2 : DURITE
125 : VITRINERTITE
105 : DUROCLARITE
4 : CLARODURITE
19 : CARBOPYRITE VITRITE
6 : CARBOPYRITE FUSITE
6 : CARBOPYRITE CLARITE
4 : CARBOPYRITE VITRINERTITE
4 : CARBOPYRITE DUROCLARITE
10 : CARBOMINERITE VITRITE
2 : CARBOMINERITE CLARITE
19 : CARBOMINERITE VITRINERTITE
13 : CARBOMINERITE DUROCLARITE
40 : STERIL PYRITE

14 - Sample : 3820.15 3820.28 Type : CA Core number : K7
476 : VITRITE
24 : FUSITE
236 : CLARITE
51 : VITRINERTITE
71 : DUROCLARITE
2 : CLARODURITE
67 : CARBOPYRITE VITRITE
34 : CARBOPYRITE CLARITE
2 : CARBOPYRITE VITRINERTITE
11 : CARBOPYRITE DUROCLARITE
9 : CARBOMINERITE VITRITE
9 : CARBOMINERITE VITRINERTITE
2 : CARBOMINERITE DUROCLARITE
6 : STERIL PYRITE

15 - Sample : 3835.13 3835.35 Type : CA Core number : K7
467 : VITRITE
42 : FUSITE
197 : CLARITE
131 : VITRINERTITE
93 : DUROCLARITE
4 : CLARODURITE
40 : CARBOPYRITE VITRITE
2 : CARBOPYRITE CLARITE
4 : CARBOPYRITE VITRINERTITE
2 : CARBOPYRITE DUROCLARITE
1 : CARBOMINERITE FUSITE
4 : CARBOMINERITE VITRINERTITE
13 : STERIL PYRITE

WELL : 25/4-6S

COUNTRY : NO

16 - Sample : 3864.07 3864.30 Type : CA Core number : K8
260 : VITRITE
227 : FUSITE
21 : CLARITE
4 : DURITE
317 : VITRINERTITE
82 : DUROCLARITE
16 : CLARODURITE
31 : CARBOPYRITE VITRITE
6 : CARBOPYRITE FUSITE
12 : CARBOPYRITE VITRINERTITE
2 : CARBOMINERITE VITRITE
6 : CARBOMINERITE FUSITE
6 : CARBOMINERITE VITRINERTITE
6 : STERIL MINERAL
4 : STERIL PYRITE

17 - Sample : 3864.30 3864.50 Type : CA Core number : K8
360 : VITRITE
4 : LIPTITE
83 : FUSITE
67 : CLARITE
6 : DURITE
318 : VITRINERTITE
85 : DUROCLARITE
27 : CLARODURITE
15 : CARBOPYRITE VITRITE
2 : CARBOPYRITE CLARITE
4 : CARBOPYRITE VITRINERTITE
2 : CARBOPYRITE DUROCLARITE
7 : CARBOMINERITE VITRITE
6 : CARBOMINERITE FUSITE
7 : CARBOMINERITE VITRINERTITE
3 : STERIL MINERAL
4 : STERIL PYRITE

18 - Sample : 3864.50 3864.80 Type : CA Core number : K8
203 : VITRITE
2 : LIPTITE
158 : FUSITE
4 : CLARITE
14 : DURITE
398 : VITRINERTITE
82 : DUROCLARITE
27 : CLARODURITE
25 : CARBOPYRITE VITRITE
4 : CARBOPYRITE FUSITE
21 : CARBOPYRITE VITRINERTITE
1 : CARBOPYRITE DUROCLARITE
14 : CARBOMINERITE FUSITE
14 : CARBOMINERITE VITRINERTITE
2 : CARBOMINERITE CLARODURITE
10 : STERIL MINERAL
21 : STERIL PYRITE

WELL : 25/4-6S

COUNTRY : NO

19 - Sample : 3864.80 3865.22 Type : CA Core number : K8
316 : VITRITE
169 : FUSITE
43 : CLARITE
8 : DURITE
311 : VITRINERTITE
68 : DUROCLARITE
28 : CLARODURITE
11 : CARBOPYRITE VITRITE
6 : CARBOPYRITE FUSITE
19 : CARBOMINERITE VITRITE
7 : CARBOMINERITE FUSITE
2 : CARBOMINERITE DURITE
2 : CARBOMINERITE VITRINERTITE
4 : CARBOMINERITE CLARODURITE
6 : STERIL MINERAL

20 - Sample : 3866.05 3866.25 Type : CA Core number : K8
332 : VITRITE
236 : FUSITE
39 : CLARITE
211 : VITRINERTITE
143 : DUROCLARITE
19 : CLARODURITE
2 : VITRINERTOLIPTITE
2 : CARBOPYRITE CLARITE
8 : CARBOMINERITE FUSITE
6 : CARBOMINERITE VITRINERTITE
2 : CARBOMINERITE DUROCLARITE

21 - Sample : 3866.30 3866.35 Type : CA Core number : K8
504 : VITRITE
2 : LIPTITE
26 : FUSITE
170 : CLARITE
93 : VITRINERTITE
7 : DUROCLARITE
31 : CLARODURITE
4 : VITRINERTOLIPTITE
20 : CARBOPYRITE VITRITE
2 : CARBOPYRITE FUSITE
15 : CARBOPYRITE CLARITE
4 : CARBOPYRITE VITRINERTITE
31 : CARBOMINERITE VITRITE
7 : CARBOMINERITE FUSITE
9 : CARBOMINERITE CLARITE
15 : CARBOMINERITE VITRINERTITE
7 : CARBOMINERITE CARBOPYRITE VITRITE
2 : CARBOMINERITE CARBOPYRITE FUSITE
2 : CARBOMINERITE CARBOPYRITE VITRINERTITE
49 : STERIL MINERAL

WELL : 25/4-6S

COUNTRY : NO

22 - Sample : 3876.70 3876.75 Type : CA Core number : K9
431 : VITRITE
251 : FUSITE
21 : CLARITE
141 : VITRINERTITE
30 : DUROCLARITE
17 : CLARODURITE
2 : VITRINERTOLIPTITE
24 : CARBOPYRITE VITRITE
19 : CARBOPYRITE FUSITE
4 : CARBOPYRITE CLARITE
33 : CARBOPYRITE VITRINERTITE
2 : CARBOPYRITE DUROCLARITE
5 : CARBOMINERITE VITRITE
5 : CARBOMINERITE FUSITE
2 : CARBOMINERITE VITRINERTITE
2 : CARBOMINERITE CARBOPYRITE VITRITE
2 : STERIL MINERAL
9 : STERIL PYRITE

23 - Sample : 3880.83 3881.02 Type : CA Core number : K9
512 : VITRITE
226 : FUSITE
28 : CLARITE
4 : DURITE
124 : VITRINERTITE
55 : DUROCLARITE
6 : CLARODURITE
2 : VITRINERTOLIPTITE
21 : CARBOPYRITE VITRITE
4 : CARBOPYRITE DUROCLARITE
2 : CARBOMINERITE DUROCLARITE
6 : STERIL MINERAL
10 : STERIL PYRITE

24 - Sample : 3881.02 3881.20 Type : CA Core number : K9
362 : VITRITE
173 : FUSITE
55 : CLARITE
2 : DURITE
263 : VITRINERTITE
82 : DUROCLARITE
6 : CLARODURITE
8 : CARBOMINERITE VITRITE
10 : CARBOMINERITE FUSITE
2 : CARBOMINERITE DURITE
8 : CARBOMINERITE VITRINERTITE
4 : CARBOMINERITE DUROCLARITE
25 : STERIL MINERAL

WELL : 25/4-6S

COUNTRY : NO

25 - Sample : 3881.20 3881.38 Type : CA Core number : K9
 316 : VITRITE
 255 : FUSITE
 22 : CLARITE
 6 : DURITE
 314 : VITRINERTITE
 40 : DUROCLARITE
 11 : CLARODURITE
 2 : CARBOMINERITE VITRITE
 13 : CARBOMINERITE FUSITE
 4 : CARBOMINERITE DURITE
 7 : CARBOMINERITE VITRINERTITE
 6 : CARBOMINERITE DUROCLARITE
 2 : CARBOMINERITE CLARODURITE
 2 : STERIL MINERAL

26 - Sample : 3881.38 3881.56 Type : CA Core number : K9
 562 : VITRITE
 39 : FUSITE
 129 : CLARITE
 166 : VITRINERTITE
 74 : DUROCLARITE
 4 : CLARODURITE
 4 : CARBOPYRITE VITRITE
 11 : CARBOMINERITE VITRITE
 2 : CARBOMINERITE CLARITE
 7 : CARBOMINERITE VITRINERTITE
 2 : STERIL MINERAL

27 - Sample : 3892.65 3893.75 Type : CA Core number : K9
 143 : VITRITE
 9 : LIPTITE
 310 : FUSITE
 24 : CLARITE
 24 : DURITE
 259 : VITRINERTITE
 111 : DUROCLARITE
 20 : CLARODURITE
 5 : VITRINERTOLIPTITE
 2 : CARBOMINERITE VITRITE
 22 : CARBOMINERITE FUSITE
 2 : CARBOMINERITE CLARITE
 30 : CARBOMINERITE VITRINERTITE
 4 : CARBOMINERITE DUROCLARITE
 11 : CARBOMINERITE CLARODURITE
 24 : STERIL MINERAL

WELL : 25/4-6S

COUNTRY : NO

28 - Sample : 3894.25 3894.70 Type : CA Core number : K9
 8 : VITRITE
 51 : FUSITE
 2 : DURITE
 34 : VITRINERTITE
 14 : DUROCLARITE
 10 : CLARODURITE
 12 : CARBOMINERITE VITRITE
 14 : CARBOMINERITE FUSITE
 22 : CARBOMINERITE CLARITE
 2 : CARBOMINERITE DURITE
 87 : CARBOMINERITE VITRINERTITE
 105 : CARBOMINERITE DUROCLARITE
 8 : CARBOMINERITE CLARODURITE
 631 : STERIL MINERAL

29 - Sample : 3894.70 3895.25 Type : CA Core number : K9
 19 : VITRITE
 413 : FUSITE
 4 : CLARITE
 38 : DURITE
 190 : VITRINERTITE
 21 : DUROCLARITE
 44 : CLARODURITE
 1 : VITRINERTOLIPTITE
 2 : CARBOPYRITE FUSITE
 13 : CARBOMINERITE VITRITE
 110 : CARBOMINERITE FUSITE
 23 : CARBOMINERITE DURITE
 23 : CARBOMINERITE VITRINERTITE
 2 : CARBOMINERITE CLARODURITE
 97 : STERIL MINERAL

30 - Sample : 3895.25 3895.75 Type : CA Core number : K9
 122 : VITRITE
 348 : FUSITE
 6 : CLARITE
 23 : DURITE
 278 : VITRINERTITE
 53 : DUROCLARITE
 29 : CLARODURITE
 18 : CARBOMINERITE VITRITE
 45 : CARBOMINERITE FUSITE
 2 : CARBOMINERITE DURITE
 39 : CARBOMINERITE VITRINERTITE
 2 : CARBOMINERITE DUROCLARITE
 4 : CARBOMINERITE CLARODURITE
 31 : STERIL MINERAL

31 - Sample : 3899.50 3899.50 Type : CA Core number : K9
 985 : VITRITE
 15 : CARBOPYRITE VITRITE

WELL : 25/4-65

COUNTRY : NO

32 - Sample : 3899.67 3899.67 Type : CA Core number : K9

966 : VITRITE

21 : CLARITE

12 : CARBOPYRITE VITRITE

1 : CARBOMINERITE VITRITE

33 - Sample : 3901.15 3901.15 Type : CA Core number : K9

1000 : VITRITE

34 - Sample : 3910.00 3915.00 Type : ND Core number :

525 : VITRITE

145 : FUSITE

14 : CLARITE

62 : VITRINERTITE

2 : DUROCLARITE

3 : CARBOPYRITE VITRITE

111 : CARBOMINERITE VITRITE

21 : CARBOMINERITE FUSITE

72 : CARBOMINERITE VITRINERTITE

6 : CARBOMINERITE DUROCLARITE

39 : STERIL MINERAL

25/4-6S - Maceral analysis of coals

SAMPLES (m)	VITRINITE					EXINITE					INERTINITE							PYRITE	OTHER MINERAL	DIESEL'S INDICES					
	Telinite	Telocollinite	Desmocollinite	Vitrodetrinite	Corpocollinite	TOTAL	Sporinite	Cutinite	Colloresinite	Resinite	Liptodetrinite	TOTAL	Fusinite	Semifusinite	Macrinite	Micrinite	Inertodetrinite			Homogeneous l.	Inert. groundmass	TOTAL	TPI	GI	
3717.40	3	504				504						0									0	469	27	>100	>100
3718.73		963				963						0									0	37	0	>100	>100
3719.14		910				910						0									0	59	31	>100	>100
3767.18		929	2			931						0		18	2	2				22	40	7	>100	51.83	
3767.32		945				945						0								0	55	0	>100	>100	
3769.90-3769.95	3	413	97	1		514	14				9	23		214	9		26			249	177	37	4.77	2.18	
3770.16-3770.17		804	127			931	13	5	7			25								0	33	11	6.33	>100	
3784.55-3784.70		225	142			367	5			3	10	18	3	487	7	7	52			556	59	0	3.57	0.69	
3784.70-3784.85		250	141	1		392	23				10	33	22	475	9		45			551	20	4	3.83	0.74	
3788.45-3788.50		400	163			563	17	2		8		27	13	323	9	11	53			409	0	1	3.27	1.47	
3802.25-3802.27		507	226	6	1	740	17	2		4	11	34		11	3		27			41	62	123	2.02	19.55	
3802.65-3802.85		557	229			786	77	8		9	9	103		40	9		25			74	29	8	2.27	12.23	
3810.20-3810.25		495	162	1		658	21	6	2	8	6	43	29	178	2	2	23			234	38	27	3.75	2.87	
3820.15-3820.28		697	160			857	35	4		1	8	48		49			10			59	20	16	4.39	14.52	
3835.13-3835.35		620	225			845	25	8	3	2	5	43	3	78			17			98	14	0	3.89	8.62	
3864.07-3864.30		386	145			531	4			3	5	12	1	365	6		61			433	12	12	3.55	1.26	
3864.30-3864.50		572	140			712	2			19	2	23		192	5	17	48			262	3	0	3.96	2.99	
3864.50-3864.80		343	158			501	6	2		2	3	13	5	329	23	3	70		14	444	15	27	2.70	1.25	
3864.80-3865.22		478	121			599	9	2	2		5	18	5	261	6	4	57		14	347	2	34	4.04	1.79	
3866.05-3866.25		485	167			652	12	2			10	24	19	268	4		22			313	2	9	4.00	2.12	
3866.30-3866.35		677	82			759	3	41	2	7	6	59	10	75	3		5			93	10	79	8.47	8.47	
3876.70-3876.75	13	505	70			588		5		4	9	18		342	7		16			365	13	16	9.25	1.66	
3880.83-3881.02		609	51			660	3	3		2	5	13		260	8		38	3		309	10	8	8.96	2.22	
3881.02-3881.20		489	140			629	11	6		3	2	22		260	8	2	33			303	0	46	4.14	2.17	
3881.20-3881.38		476	64			540	6	3			3	12	2	320	8	3	32		53	418	0	30	7.67	1.34	
3881.38-3881.56		684	161			845	10			2	5	17	13	92			14			119	0	19	4.51	7.10	
3892.65-3892.75		210	147			357	5	4		26	12	47		455	4	3	44			506	0	90	3.41	0.72	
3894.25-3894.70		140	9	11		160	23				7	30	11	79			68	2		160	0	650	3.98	1.00	
3894.70-3895.25		112	48	2		162	7			2	9	18	28	338		9	55		217	647	0	173	6.75	0.25	
3895.25-3895.75		225	59	7		291	3				8	11	2	324	10	3	123		131	593	0	105	3.55	0.52	
3899.50		998				998						0								0	2	0	>100	>100	
3899.67		986	6			992				2		2								0	4	2	>100	>100	
3901.15		1000				1000						0								0	0	0	>100	>100	
Cutt. 3910/3915		577	87			664	4					4	4	163			24	5		196	0	136	6.74	3.48	