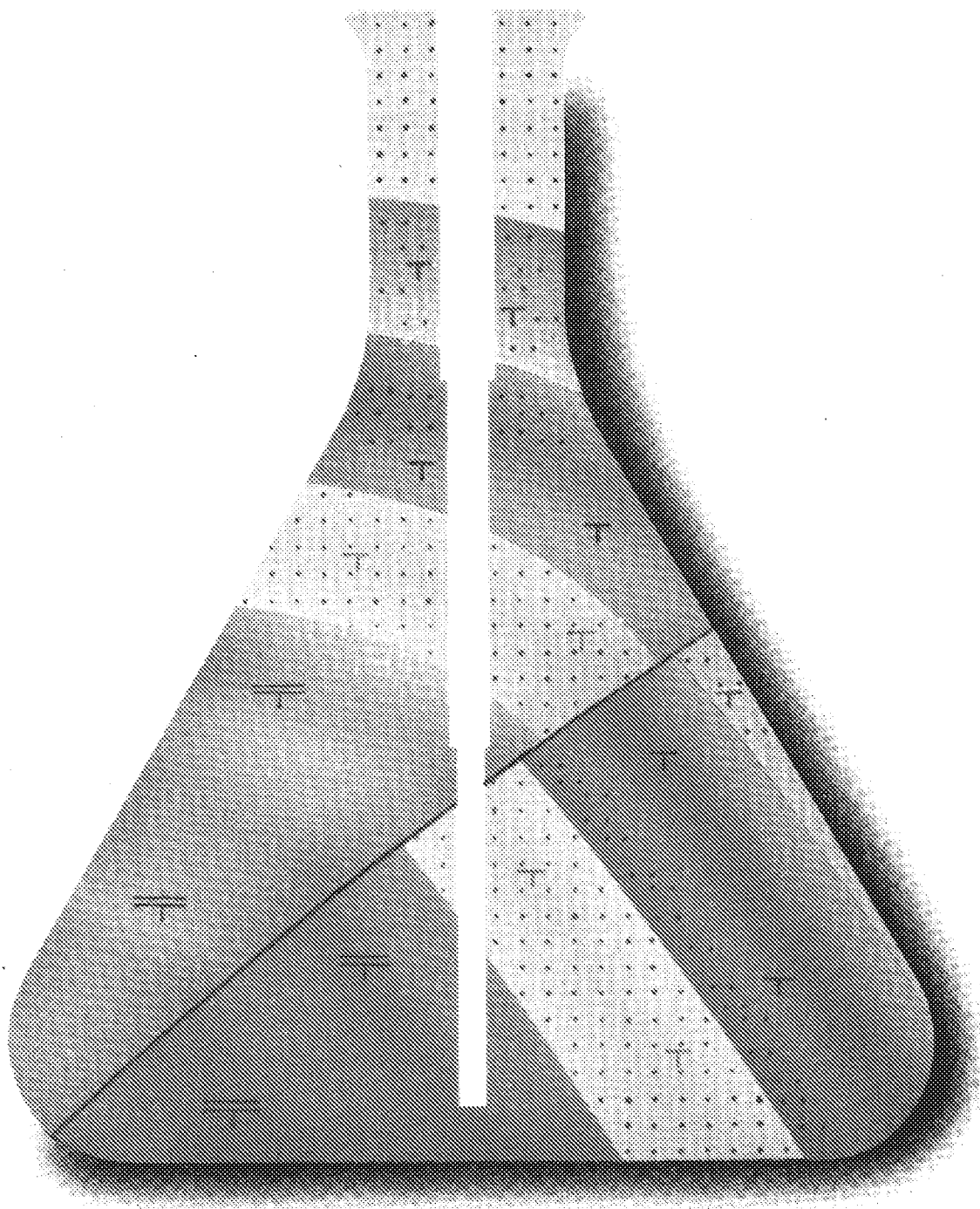


Geochemical Analysis Report

Well NOCS 2/8-3



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PRE-CRETACEOUS HYDROCARBON POTENTIAL
OF THE NORWEGIAN CENTRAL GRABEN

GEOCHEMICAL ANALYSIS

Well NOCS 2/8-3

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Date : November 1987

INTRODUCTION

This well is from the Norwegian sector of the North Sea in the area of the Valhall field.

A total of 142 samples was collected from the Norwegian Petroleum Directorate in Stavanger. From 150 m above the Cretaceous/Jurassic boundary all the samples were washed and described (3399 m - 3898 m RKB). The analysed interval is from 3478 m RKB, the sample interval being mainly 6 m in the Jurassic.

A careful selection was made of suitable samples for screening analysis, i.e. TOC and Rock-Eval analyses. Fifty-five (55) samples were selected for these analyses. Apart from Vitrinite Reflectance analysis, no additional analyses were performed.

Tables, listing in detail which samples were analysed and the results from the analyses, are shown in the appendix.

Figure 1 shows the litho-variations and some of the screening data for the analysed section of the well. Included in figure are some of the problems and intervals of interest which have affected the choice of samples for analyses.

The following stratigraphical intervals were used in the discussion of this well:

| | |
|----------------------|--------|
| Top Cretaceous | 2780 m |
| Top Lower Cretaceous | 3192 m |
| Top Mandal Fm. | 3535 m |
| Top Farsund Fm. | 3598 m |
| Top Haugesund Fm. | 3761 m |
| TD | 4115 m |

Note, no samples were available below 3862 m.

LITHOLOGY AND TOTAL ORGANIC CARBON CONTENT

Tertiary (- 2780 m)

No samples were analysed for TOC. The samples in this interval consist mainly of brown-grey and olive-grey and dusky yellow-brown claystones and siltstones (above 1000 m).

Cretaceous (2780 - 3535 m)

Between 2780 and 3192 m, samples consist mainly of chalky, white limestones and caved, Tertiary claystones. No analyses were performed. Below 3192 m, the dominant shales are light to medium grey. There are light yellow-grey marls and dusky yellow-brown dolomites in minor amounts. The shales become darker below 3429 m. Between 3475 m and 3535 m, 6 shales and one carbonate were analysed. The shales have fair TOC contents from 0.5 % to 0.9 %. The carbonate has 0.6 % TOC.

Jurassic (3535 - 4115 m, TD)

Tyne Group (3535 - 4115 m, TD)

Mandal Formation (3535 - 3598 m)

Dusky yellow-brown to brown-black, micaceous shales are the dominant lithology in samples from this interval but there are also minor amounts of light grey limestone. TOC contents of the shales in this interval vary from 4.8 % to 11.2 %. The shales can be divided into two groups: above 3575 m the TOC contents exceed 9 % whilst below 3575 m they are less than 9 % and decrease from 7.7. % at 3581 m to 4.8 % at 3594 m.

Farsund Formation (3598 - 3761 m)

Apart from the top sample, from 3600 m, which contains 6 % TOC (and is probably caved from the Mandal Fm.), the TOC content of the dominant dusky yellow-brown, brown-grey and brown-black shales, between 3598 m and 3661 m, is from 2.2 % to 3.2 % (i.e. rich, but less than the Mandal Fm.). Between 3661 m and 3758 m the TOC content is richer, ranging from 2.4 % to 6.2 %. This could be due to caving from the Mandal Fm., however, this is not so below 3700 m, at which level caving was set. The abundant mud additives below 3700 m may be the cause of the high TOC values above 4 %.

Haugesund Formation (3761 - 4115 m, TD)

The dominant lithology in the samples between 3761 - 3862 m, is dark grey to brown-black shales and brown-grey to dark yellow-brown siltstones. The TOC content of the shales is good to rich and ranges from 0.8 % to 6.4 % although the main range is from 1.5 to 3 %. The siltstones have TOC contents from 1.6 % to 2.5 %.

There is a considerable amount of mud additive, including fibre, a tarry material, paint etc., which may be responsible for the high TOC values, above 4 %, in this formation.

ROCK-EVAL ANALYSIS

1. Kerogen Type and Richness
(Hydrogen Index, Oxygen Index and Petroleum Potential)

Cretaceous (2780 - 3535 m)

Only seven samples, towards the base of the Lower Cretaceous, were analysed. The six shales and one carbonate have poor-fair petroleum potentials (from 1.8 to 3.3 - the low value is for carbonate) and kerogen type III or IV (hydrogen indices 74 - 129, including the sample in the Jurassic interval from 3536 - 3539 m which is caved from the Cretaceous). These samples have a poor gas potential.

Jurassic (3535 - 4115 m, TD)

Tyne Group (3535 - 4115 m, TD)

Mandal Formation (3535 - 3761 m)

The organic rich shales in this formation have very rich petroleum potentials (particularly above 3575 m), ranging from 18 to 52. Above 3575 m the petroleum potentials are greater than 40. The hydrogen indices vary from 251 to 363 indicating mainly type II/III kerogen at present. However, the high S_1 values indicate that major hydrocarbon generation has begun. Before thermal alteration occurred the kerogens in these samples would have been mainly type II. They still have a rich potential for oil and gas and are generating hydrocarbons at the present time.

Farsund Formation (3598 - 3761 m)

The petroleum potentials of the dominant shales in this formation vary from 7 - 15, except for the top sample (which probably contains material caved from the Mandal Fm.) and below 3671 m, where some samples have petroleum potentials greater than 15. The latter are probably high due to the massive amounts of mud additives in the samples. The kerogen throughout the sequence is type III and occasionally type II/III, with hydrogen indices ranging from 165 to 260. High values may be due to mud additive contamination. The shales have a good to rich potential as source rocks for gas and condensate and probably minor oil.

Haugesund Formation (3761 - 4115 m)

Petroleum potentials vary considerably (from 1.6 to 30) and kerogen type changes from III to II/III (Hydrogen indices in the range 114 to 245). This variation is probably due to the presence of an organic-rich mud additive in all of the samples. The actual kerogen type is estimated to be III and actual petroleum potentials probably range from 2 to 10. The shales in this formation probably have a fair to good gas potential.

2. Generation and Migration

(Production Index $S_1/(S_1+S_2)$ and S_1/TOC)

The production index values (see Figure 2) in the Mandal Fm. range from 0.22 to 0.34 and suggest that major hydrocarbon generation has begun. The very high S_1 values also support this conclusion. Production index values are markedly higher in the Farsund and Haugesund Fms. and range from 0.35 to 0.61. The higher production indices are considered to be due to migrated hydrocarbons as well as in-situ generated hydrocarbons. The very high production indices in the

Cretaceous shales (0.66 - 0.81) are due to migrated hydrocarbons and/or contamination of cuttings by diesel used in the drilling mud.

3. Maturity (Tmax)

The estimated Tmax trend for the analysed interval, between 3535 m and 4115 m, is mainly from 433 to 439 (see Figure 3), which suggests that the interval is early mature approaching peak oil generation.

VITRINITE REFLECTANCE ANALYSIS

Reflectance data can be found in Table 3. A depth/reflectance plot appears in Figure 4.

A total of 22 samples were analysed for vitrinite reflectance, covering the interval 1039 m to 3856 m. The first eleven samples are from the Tertiary section of the well. These samples have claystone lithologies with generally moderate to high amounts of staining and low to trace amounts of phytoclasts. There is, however, often a high proportion of vitrinite to inertinite, allowing high numbers of individual readings to be taken. Consequently a very regular, linear profile is obtained for the Tertiary section of the well with reflectance rising from just over 0.30 % at 1000 m to approximately 0.40 % at 2800 m. Spores are present in all of the samples and spore fluorescence colours change from yellow and yellow-orange to light orange with depth.

Six samples were analysed from the Cretaceous section of the well. The samples contain mixtures of shales and chalk and are therefore likely to contain some caved material. Apart from a low value of 0.39 % R_o at 3237 m, the reflectance values for the Cretaceous fit closely to a curve. This indicates that, although only low numbers of individual readings were possible, the reflectances do relate to in-situ lithologies. Both yellow-orange and light orange spores are present in these samples, indicating a maturity equivalent to 0.40 % to 0.50 % R_o .

Five samples were analysed from the Jurassic section of the well. The uppermost (3539 m) is from the Mandal Fm. and contains mixed shale lithologies. Staining is variable but strong in the cuttings which contain vitrinite. A value of 0.44 % was obtained from six readings on the small amount of vitrinite present. This agrees well with the yellow-

orange spore fluorescence colour observed in U.V. light but represents a drop in reflectance from the Cretaceous trend.

Two samples (3606 m and 3685 m) were analysed from the Farsund Fm. Both have shale lithologies with variable staining and a trace of phytoclasts. Only a few vitrinites were located and these gave a reflectance of 0.41 % for the upper sample and 0.46 % for the lower sample. Spores show both yellow-orange and light orange fluorescence colours. The lowest two samples (3776 m and 3856 m) are from the Haugesund Fm. and contain carbonate and claystone lithologies. The claystone has strong staining and only a trace of phytoclasts, of which a very small proportion are vitrinites. A value of 0.47 % was obtained from two readings on the upper sample and a value of 0.56 % obtained from four readings on the lower sample. Yellow/orange spores are present in the upper sample while light orange and moderate orange spores are present in the lower sample, indicating a maturity of around 0.60 % Ro.

From the depth/reflectance profile a very regular, linear gradient can be seen for the Tertiary section of the well but from Cretaceous downwards the gradient becomes more exponential but also more irregular. The Cretaceous values are based on low numbers of readings but show a regular increase in reflectance. Jurassic values which indicate a drop in reflectance, are from generally strongly stained lithologies but also show a fairly regular increase with depth. Although spore fluorescence colour data agrees with the Jurassic values, the Cretaceous values fit better with the Tertiary gradient. By connecting the Cretaceous values (excluding the low, caved value at 3237 m) the well is shown to reach moderate maturity at approximately 2600 m and, by extrapolation, maturity at 3700 m - 3800 m. Alternatively, measured Jurassic values suggest that maturity is not reached until approximately 4000 m.

CONCLUSIONS

Based on the various analyses undertaken on the samples from this well, the following preliminary conclusions were made:

1. Source Rock Potential

Tertiary (- 2780 m)

No samples were analysed.

Cretaceous (2780 - 3535 m)

Between 3445 m and 3535 m light to medium grey shales have poor gas potential (TOC < 1 %, type IV kerogen).

Jurassic (3535 - 4115 m, TD)

Tyne Group (3535 - 4115 m, TD)

Mandal Formation (3535 - 3598 m)

The dusky yellow-brown to brown-black shales in this sequence are very rich, having TOC values from 5 to 11 % and petroleum potentials from 18 to 50. The kerogen which is type II/III or II in these shales was probably all type II before hydrocarbon generation began. The shales have a rich oil and gas potential.

Farsund Formation (3598 - 3761 m)

The dusky yellow-brown and brown-black shales in this interval have TOC contents mainly from 2 to 4 % and kerogens are type II/III with petroleum potentials from 7 to 15. These shales have a good-rich potential for gas/condensate and some light oil potential.

Haugesund Formation (3761 - 4115 m)

The analysed sequence from 3761 m to 3862 m, consists of shales similar to the Farsund Fm. shales, with some silty layers. The TOC content of the shales and siltstones ranges from 1.5 % to 3 % and kerogens are type III or II/III. The true range of petroleum potentials is considered to be roughly from 2 to 10. The shales in this sequence have a fair to good potential as source rocks for gas and condensate.

2. Generation and Migration

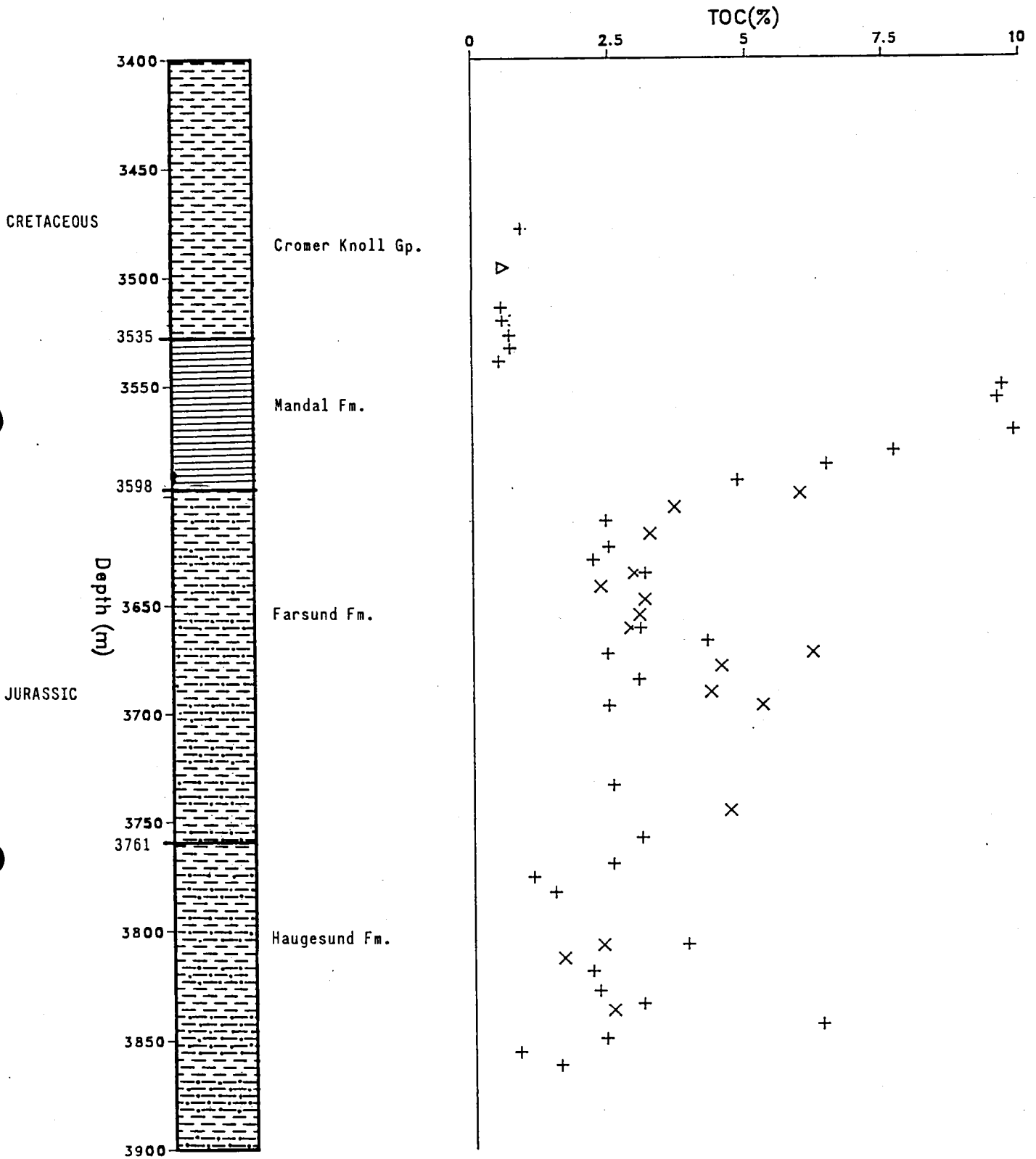
High production indices and high S_1 values of the Mandal Fm. shales indicate that hydrocarbon generation has begun but peak oil generation has not been reached. Generation of hydrocarbons has also occurred in the Farsund and Haugesund Fms. shales, but staining of shales by migrated hydrocarbons is suspected.

3. Maturity

The estimated maturity range of the Jurassic sequence in this well is 0.6 - 0.8 % Ro.

Figure: 1

TOC Data for Well NOCS 2/8-3



- + Shales
- x Siltstones
- o Coals
- ▷ Carbonates
- ◇ Sandstones
- ▣ Anhydrite

Figure: 2

Client: VARIOUS

Production Index Data for Well NOCS 2/8-3

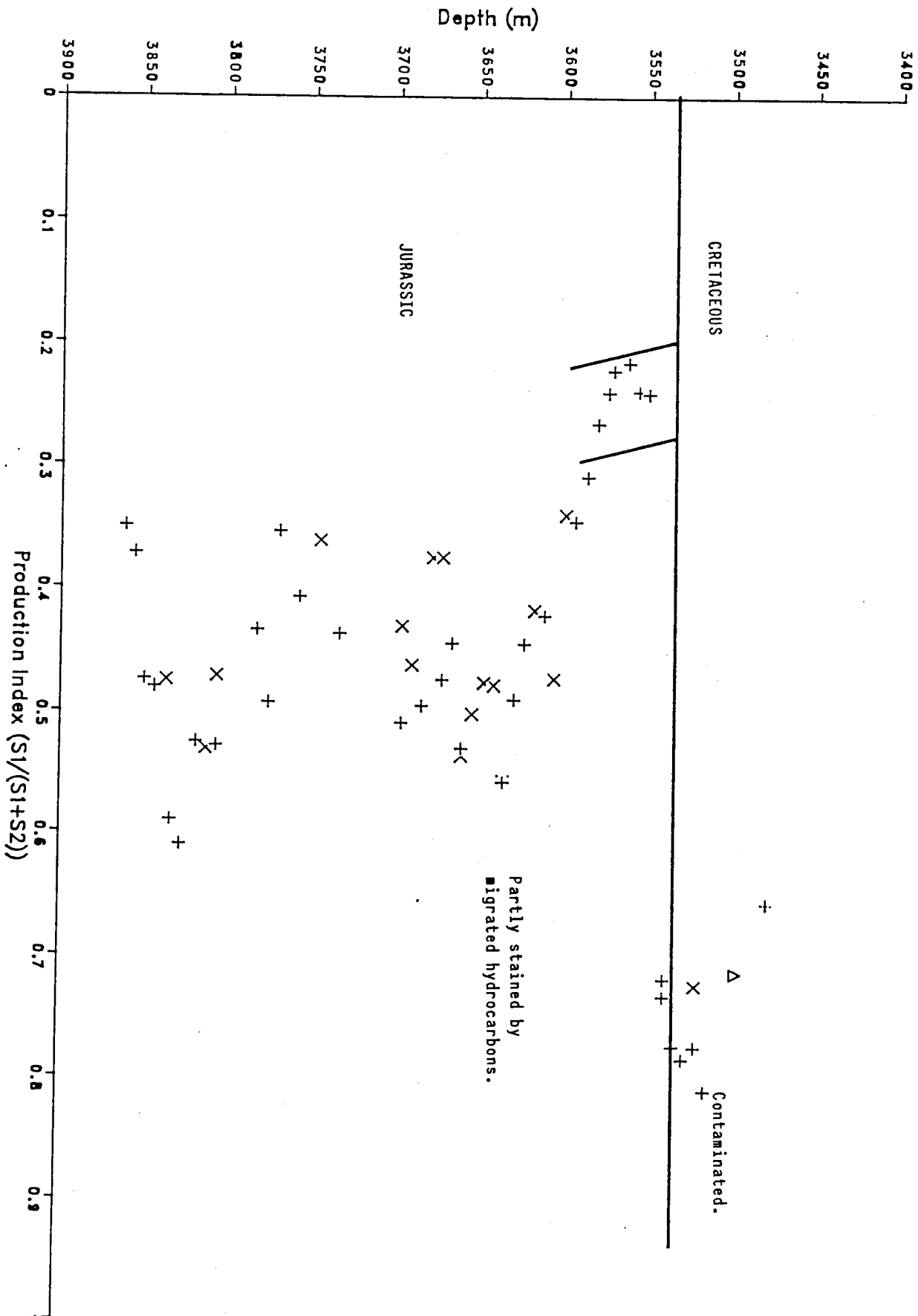


Figure: 3

Client: VARIOUS

Tmax Data for Well NOCS 2/8-3

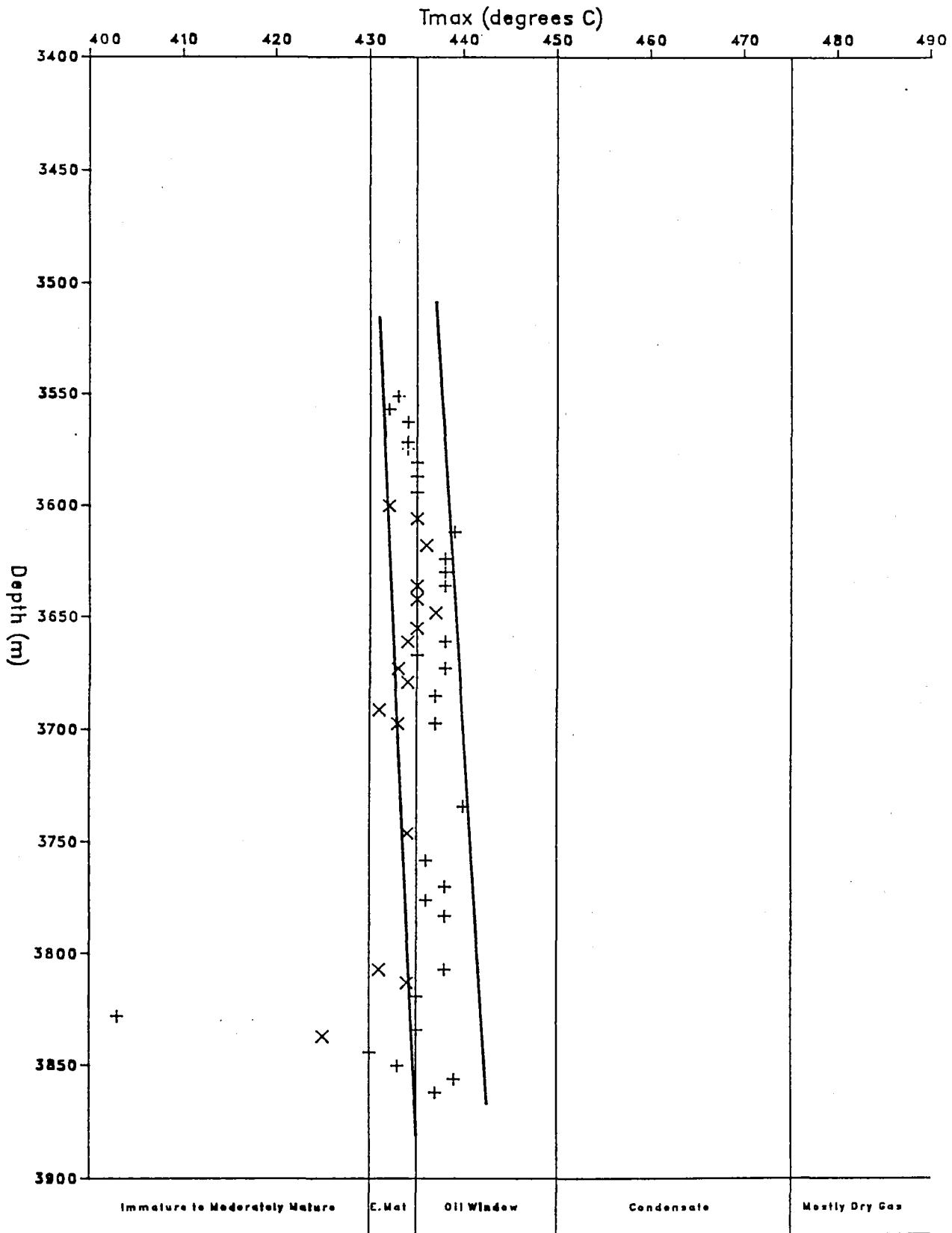
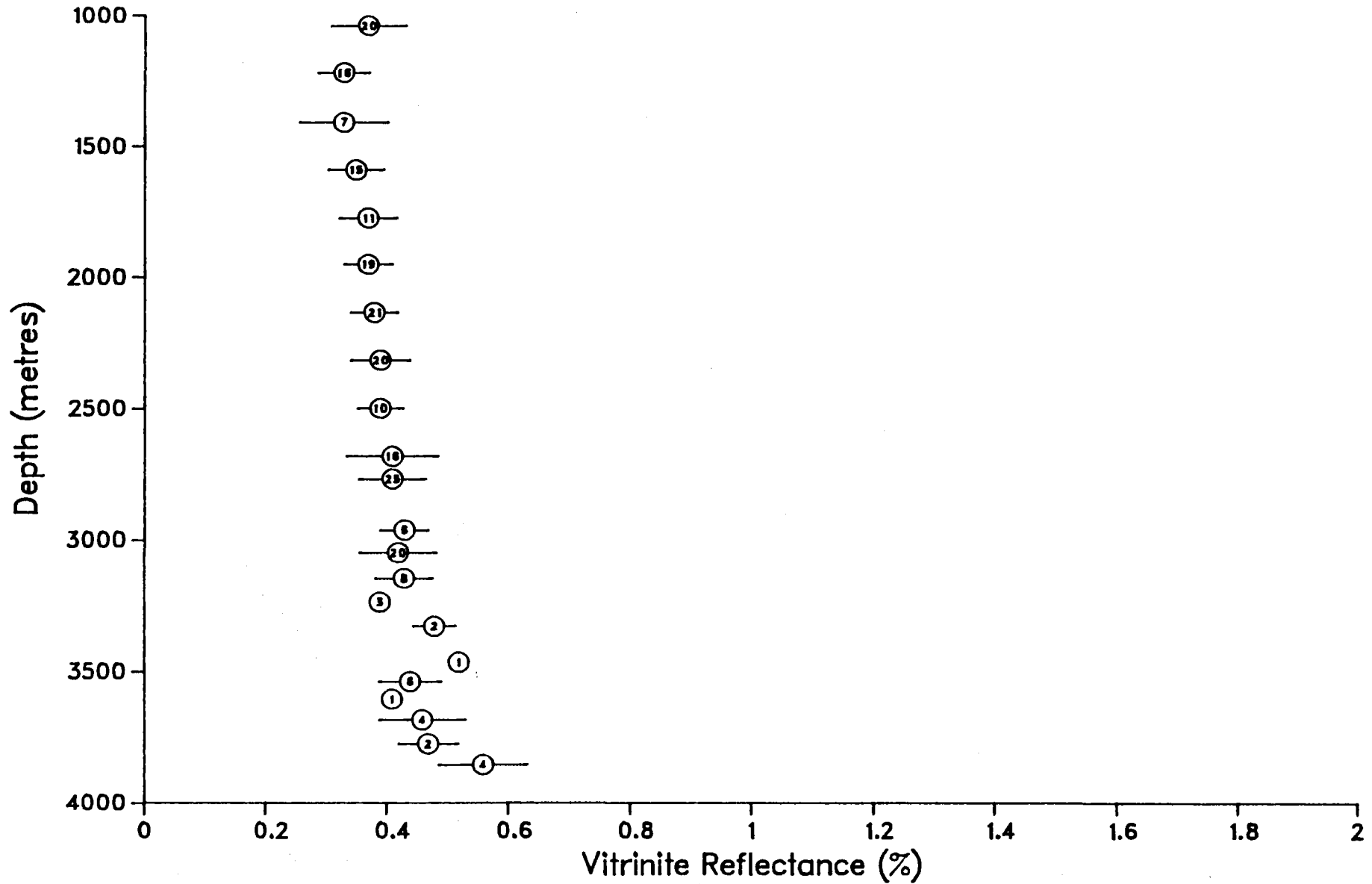


Figure 4: Vitrinite Reflectance versus Depth
Well NOCS 2/8-3



Appendix 1

Tables

Table 1 : Lithology description for well NOCS 2/8-3

Depth unit of measure: m

| Depth | Type | Trb | Sample |
|---------|------|-----------|-----------------------------|
| Int Cvd | TOC% | % | Lithology description |
| 424.00 | | | 001 |
| | | 100 Cont | : cem 001-1L |
| 524.00 | | | 002 |
| | | 90 Sltst | : ol gy 002-1L |
| | | 10 Other | : fos 002-2L |
| 616.00 | | | 003 |
| | | 100 Sltst | : brn gy to ol gy 003-1L |
| | | tr Other | : fos 003-2L |
| 707.00 | | | 004 |
| | | 50 Sltst | : brn gy to ol gy 004-1L |
| | | 40 S/Sst | : w, l 004-2L |
| | | 10 Other | : fos 004-3L |
| 799.00 | | | 005 |
| | | 60 S/Sst | : w, l 005-2L |
| | | 40 Sltst | : brn gy to ol gy 005-1L |
| 853.00 | | | 006 |
| | | 100 Sltst | : brn gy to ol gy 006-1L |

Table 1 : Lithology description for well NOCS 2/8-3

Depth unit of measure: m

| Depth | Type | | Trb | Sample |
|---------|------|------|-----|--|
| Int | Cvd | TOC% | % | Lithology description |
| 945.00 | | | | 007 |
| | | | 100 | Sh/Clst: ol gy, slt 007-1L |
| 1039.00 | | | | 008 |
| | | | 100 | Sh/Clst: ol gy to m gy 008-1L |
| 1128.00 | | | | 009 |
| | | | 90 | Sh/Clst: ol gy to dsk y brn, slt 009-1L |
| | | | 10 | Cont : evap 009-2L |
| 1219.00 | | | | 010 |
| | | | 100 | Sh/Clst: ol gy to dsk y brn, slt 010-1L |
| 1317.00 | | | | 011 |
| | | | 100 | Sh/Clst: ol gy, slt 011-1L |
| 1408.00 | | | | 012 |
| | | | 100 | Sh/Clst: brn gy to ol gy, slt 012-1L |
| 1500.00 | | | | 013 |
| | | | 100 | Sh/Clst: brn gy to ol gy, slt 013-1L |
| 1591.00 | | | | 014 |
| | | | 100 | Sh/Clst: brn gy to ol gy 014-1L |

Table 1 : Lithology description for well NOCS 2/8-3

Depth unit of measure: m

| Depth | Type | Trb | Sample |
|---------|------|-----------------------------------|--------|
| Int Cvd | TOC% | | |
| ----- | | | |
| | % | Lithology description | |
| ----- | | | |
| 1682.00 | | | 015 |
| | 100 | Sh/Clst: brn gy to ol gy | 015-1L |
| 1774.00 | | | 016 |
| | 100 | Sh/Clst: brn gy, ol gy, dsk y brn | 016-1L |
| 1859.00 | | | 017 |
| | 100 | Sh/Clst: brn gy, ol gy, dsk y brn | 017-1L |
| 1951.00 | | | 018 |
| | 100 | Sh/Clst: brn gy, ol gy, dsk y brn | 018-1L |
| 2042.00 | | | 019 |
| | 100 | Sh/Clst: brn gy to ol gy | 019-1L |
| 2134.00 | | | 020 |
| | 60 | Sh/Clst: ol gy to dsk y brn | 020-1L |
| | 40 | Sltst : brn gy | 020-2L |
| 2225.00 | | | 021 |
| | 70 | Sltst : brn gy | 021-2L |
| | 30 | Sh/Clst: ol gy | 021-1L |

Table 1 : Lithology description for well NOCS 2/8-3

Depth unit of measure: m

| Depth | Type | Trb | Sample |
|---------|------|------------------------------------|-----------------------|
| Int Cvd | TOC% | % | Lithology description |
| 2316.00 | | | 022 |
| | | 60 Sltst : brn gy | 022-2L |
| | | 40 Sh/Clst: ol gy | 022-1L |
| 2408.00 | | | 023 |
| | | 100 Sh/Clst: ol gy to dsk y brn | 023-1L |
| | | tr Sltst : brn gy | 023-2L |
| 2499.00 | | | 024 |
| | | 100 Sh/Clst: gn gy to ol gy | 024-1L |
| 2591.00 | | | 025 |
| | | 100 Sh/Clst: gn gy to ol gy | 025-1L |
| 2682.00 | | | 026 |
| | | 100 Sh/Clst: gn gy to ol gy | 026-1L |
| 2768.00 | | | 027 |
| | | 45 Sh/Clst: gn gy to ol gy | 027-1L |
| | | 30 Sh/Clst: pu to gy red | 027-3L |
| | | 20 Sh/Clst: brn gy | 027-2L |
| | | 5 Sh/Clst: gy blk | 027-4L |
| 2871.00 | | | 028 |
| cvd | | 60 Sh/Clst: brn gy, gn gy to ol gy | 028-1L |
| | | 40 Ca : w, chk | 028-4L |
| cvd | | tr Sh/Clst: pu to gy red | 028-2L |
| cvd | | tr Sh/Clst: gy blk | 028-3L |

Table 1 : Lithology description for well NOCS 2/8-3

Depth unit of measure: m

| Depth | Type | | Trb | Sample |
|---------|------|-------------------------------------|-----|--------|
| Int Cvd | TOC% | % Lithology description | --- | ----- |
| 2963.00 | | | | 029 |
| | cvd | 50 Sh/Clst: gn gy to ol gy | | 029-1L |
| | | 50 Ca : w, chk | | 029-3L |
| | cvd | tr Sh/Clst: pu to gy red | | 029-2L |
| 3048.00 | | | | 030 |
| | | 60 Sh/Clst: brn gy, gn gy to ol gy | | 030-1L |
| | | 30 Ca : w, chk | | 030-3L |
| | | 5 Sh/Clst: gy red | | 030-2L |
| | | 5 Sh/Clst: gy blk | | 030-4L |
| 3146.00 | | | | 031 |
| | | 60 Ca : w to lt gy, sil, chk | | 031-2L |
| | | 40 Sh/Clst: brn gy, gn gy to ol gy | | 031-1L |
| 3237.00 | | | | 032 |
| | | 40 Sh/Clst: lt gy to m gy | | 032-1L |
| | | 40 Sltst : brn gy | | 032-2L |
| | | 10 S/Sst : w, f, l | | 032-3L |
| | | 5 Other : pyr | | 032-4L |
| | | 5 Cont : prp, evap | | 032-5L |
| 3328.00 | | | | 033 |
| | | 90 Marl : lt y gy | | 033-1L |
| | | 10 Sh/Clst: lt gy to m gy | | 033-2L |
| 3399.00 | | | | 034 |
| | | 80 Sh/Clst: lt gy to m gy, calc | | 034-1L |
| | | 10 Ca : drk y brn to dsk y brn, dol | | 034-2L |
| | | 5 Sh/Clst: gy blk | | 034-3L |
| | | 5 Marl : lt y gy | | 034-4L |

Table 1 : Lithology description for well NOCS 2/8-3

Depth unit of measure: m

| Depth | Type | | Trb | Sample |
|---------|------|---------------------------------|-----|--------|
| Int Cvd | TOC% | % Lithology description | | |
| 3405.00 | | | | 035 |
| | | 60 Sh/Clst: lt gy to m gy, calc | | 035-1L |
| | | 30 Sltst : brn gy | | 035-2L |
| | | 10 Ca : drk y brn, dol | | 035-3L |
| 3411.00 | | | | 036 |
| | | 50 Sh/Clst: lt gy to m gy, calc | | 036-1L |
| | | 50 Sltst : brn gy | | 036-2L |
| | | tr Ca : drk y brn, dol | | 036-3L |
| 3417.00 | | | | 037 |
| | | 70 Sh/Clst: lt gy to m gy, calc | | 037-1L |
| | | 15 S/Sst : w, f, l | | 037-3L |
| | | 5 Ca : w, drk y brn | | 037-2L |
| | | 5 Other : pyr | | 037-4L |
| | | 5 Cont : prp | | 037-5L |
| 3423.00 | | | | 038 |
| | | 65 Sh/Clst: lt gy to m gy, calc | | 038-1L |
| | | 35 Sltst : brn gy | | 038-2L |
| | | tr Sh/Clst: gy blk | | 038-3L |
| | | tr Ca : w, drk y brn | | 038-4L |
| 3429.00 | | | | 039 |
| | | 80 Sh/Clst: lt gy to m gy, calc | | 039-1L |
| | | 15 sltst : brn gy | | 039-2L |
| | | 5 Ca : w, drk y brn | | 039-4L |
| | | tr Sh/Clst: gy blk | | 039-3L |

Table 1 : Lithology description for well NOCS 2/8-3

Depth unit of measure: m

| Depth | Type | Trb | Sample |
|-----------------------|-----------------------------|-----|--------|
| Int Cvd | TOC% % | | |
| Lithology description | | | |
| 3435.00 | | | 040 |
| | 85 Marl : lt y gy, slt | | 040-2L |
| | 15 Sh/Clst: lt gy to drk gy | | 040-1L |
| 3441.00 | | | 041 |
| | 50 Sh/Clst: lt gy to drk gy | | 041-1L |
| | 50 Marl : lt y gy, slt | | 041-2L |
| 3447.00 | | | 042 |
| | 50 Sh/Clst: lt gy to drk gy | | 042-1L |
| | 50 Marl : lt y gy, slt | | 042-2L |
| 3453.00 | | | 043 |
| | 50 Sh/Clst: lt gy to drk gy | | 043-1L |
| | 50 Marl : lt y gy, slt | | 043-2L |
| 3459.00 | | | 044 |
| | 50 Sh/Clst: lt gy to drk gy | | 044-1L |
| | 50 Marl : lt y gy, slt | | 044-2L |
| 3466.00 | | | 045 |
| | 70 Sh/Clst: lt gy to drk gy | | 045-1L |
| | 15 Marl : lt y gy, slt | | 045-2L |
| | 15 Ca : w, drk y brn | | 045-3L |

Table 1 : Lithology description for well NOCS 2/8-3

Depth unit of measure: m

| Depth | Type | | Trb | Sample |
|---------|------|------------------------------------|-----|--------|
| Int Cvd | TOC% | % Lithology description | | |
| 3472.00 | | | | 046 |
| | | 70 Marl : lt y gy, slt | | 046-2L |
| | | 30 Sh/Clst: lt gy to drk gy, calc | | 046-1L |
| 3478.00 | | | | 047 |
| | 0.89 | 50 Sh/Clst: lt gy to drk gy, calc | | 047-1L |
| | | 50 Marl : lt y gy, slt | | 047-2L |
| | | tr Cont : prp | | 047-3L |
| 3484.00 | | | | 048 |
| | | 70 Marl : lt y gy, slt | | 048-2L |
| | | 30 Sh/Clst: lt gy to drk gy, calc | | 048-1L |
| 3490.00 | | | | 049 |
| | | 80 Marl : lt y gy, slt | | 049-2L |
| | | 20 Sh/Clst: lt gy to drk gy, calc | | 049-1L |
| 3496.00 | | | | 050 |
| | 0.56 | 90 Ca : pl y brn to dsk y brn, dol | | 050-3L |
| | | 5 Sh/Clst: lt gy to drk gy, calc | | 050-1L |
| | | 5 Marl : lt y gy, slt | | 050-2L |
| 3502.00 | | | | 051 |
| | | 50 Marl : lt y gy, slt | | 051-2L |
| | | 40 Sh/Clst: lt gy to drk gy, calc | | 051-1L |
| | | 10 Ca : pl y brn to dsk y brn, dol | | 051-3L |

Table 1 : Lithology description for well NOCS 2/8-3

Depth unit of measure: m

| Depth | Type | | Trb | Sample |
|-----------------------|------|-------------|-----|--------|
| Int Cvd | TOC% | % | | |
| Lithology description | | | | |
| 3508.00 | | | | 052 |
| | | 50 Marl | | 052-2L |
| | | 40 Sh/Clst: | | 052-1L |
| | | 10 Ca | | 052-3L |
| 3514.00 | | | | 053 |
| | 0.53 | 70 Sh/Clst: | | 053-1L |
| | | 30 Sltst | | 053-2L |
| 3520.00 | | | | 054 |
| | 0.60 | 60 Sltst | | 054-2L |
| | 0.55 | 40 Sh/Clst: | | 054-1L |
| 3527.00 | | | | 055 |
| | 0.68 | 60 Sh/Clst: | | 055-1L |
| | | 40 Sltst | | 055-2L |
| 3533.00 | | | | 056 |
| | 0.69 | 50 Sh/Clst: | | 056-1L |
| | | 50 Sltst | | 056-2L |
| 3539.00 | | | | 057 |
| | 0.52 | 35 Sh/Clst: | | 057-1L |
| | 0.49 | 35 Sh/Clst: | | 057-4L |
| | | 20 Ca | | 057-3L |
| | | 10 Sltst | | 057-2L |

Table 1 : Lithology description for well NOCS 2/8-3

Depth unit of measure: m

| Depth | Type | | Trb | Sample |
|---------|-------|---|-----|--------|
| Int Cvd | TOC% | % Lithology description | | |
| 3551.00 | | | | 058 |
| | 9.67 | 70 Sh/Clst: brn blk to dsk y brn, mic | | 058-4L |
| | | 15 Sh/Clst: m gy to drk y brn, calc, carb, wx | | 058-1L |
| | | 10 Ca : w to lt gy | | 058-3L |
| | | 5 Sltst : brn gy to lt y gy, calc | | 058-2L |
| 3557.00 | | | | 059 |
| | 9.58 | 90 Sh/Clst: brn blk to dsk y brn, mic | | 059-4L |
| | | 5 Sh/Clst: m gy to drk y brn, calc, carb, wx | | 059-1L |
| | | 5 Ca : w to lt gy | | 059-3L |
| | | tr Sltst : brn gy to lt y gy, calc | | 059-2L |
| 3563.00 | | | | 060 |
| | 11.17 | 90 Sh/Clst: brn blk to dsk y brn, mic | | 060-3L |
| | | 10 Ca : w to lt gy | | 060-2L |
| | | tr Sh/Clst: m gy to drk y brn, calc, carb, wx | | 060-1L |
| | | tr Other : pyr | | 060-4L |
| | | tr Cont : Coal-ad, prp | | 060-5L |
| 3572.00 | | | | 061 |
| | 9.87 | 90 Sh/Clst: brn blk to dsk y brn, mic | | 061-3L |
| | | 10 Ca : w to lt gy | | 061-2L |
| | | tr Sh/Clst: m gy to drk y brn, calc, carb, wx | | 061-1L |
| | | tr Other : pyr | | 061-4L |
| | | tr Cont : Coal-ad, prp | | 061-5L |
| 3575.00 | | | | 062 |
| | 10.11 | 90 Sh/Clst: brn blk to dsk y brn, mic | | 062-3L |
| | | 10 Ca : w to lt gy | | 062-2L |
| | | tr Sh/Clst: m gy to drk y brn, calc, carb, wx | | 062-1L |
| | | tr Other : pyr | | 062-4L |
| | | tr Cont : Coal-ad, prp | | 062-5L |

Table 1 : Lithology description for well NOCS 2/8-3

Depth unit of measure: m

| Depth | Type | | Trb | Sample |
|---------|------|--|-----|--|
| Int Cvd | TOC% | % Lithology description | | |
| 3581.00 | | | | 063 |
| | 7.68 | 90 Sh/Clst: brn blk to dsk y brn, mic 10 Ca : w to lt gy tr Sh/Clst: m gy to drk y brn, calc, carb, wx tr Other : pyr tr Cont : Coal-ad, prp | | 063-3L 063-2L 063-1L 063-4L 063-5L |
| 3587.00 | | | | 064 |
| | 6.45 | 90 Sh/Clst: brn blk to dsk y brn, mic 10 Ca : w to lt gy tr Sh/Clst: m gy to drk y brn, calc, carb, wx tr Other : pyr tr Cont : Coal-ad, prp | | 064-3L 064-2L 064-1L 064-4L 064-5L |
| 3594.00 | | | | 065 |
| | 4.81 | 40 Sh/Clst: brn blk to dsk y brn, calc, wx 30 Sltst : brn gy to drk y brn, calc 30 Ca : lt gy to m gy tr Cont : prp, evap | | 065-1L 065-2L 065-3L 065-4L |
| 3600.00 | | | | 066 |
| | 5.96 | 60 Sltst : brn gy to drk y brn, calc 20 Sh/Clst: brn blk to dsk y brn, calc, wx 20 Ca : lt gy to m gy tr Cont : prp, evap | | 066-2L 066-1L 066-3L 066-4L |
| 3606.00 | | | | 067 |
| | 3.67 | 50 Sltst : brn gy to drk y brn, calc 30 Sh/Clst: brn blk to dsk y brn, calc, wx 20 Ca : lt gy to m gy tr Cont : Coal-ad, prp | | 067-2L 067-1L 067-3L 067-4L |

Table 1 : Lithology description for well NOCS 2/8-3

Depth unit of measure: m

| Depth | Type | | Trb | Sample |
|-----------------------|------|----|---|--------|
| Int Cvd | TOC% | % | | |
| Lithology description | | | | |
| 3612.00 | | | | 068 |
| | 2.42 | 50 | Sh/Clst: brn blk to dsk y brn, calc, wx | 068-1L |
| | | 40 | Sltst : brn gy to drk y brn, calc | 068-2L |
| | | 5 | Ca : lt gy to m gy | 068-3L |
| | | 5 | Cont : Mica-ad, prp | 068-4L |
| 3618.00 | | | | 069 |
| | 3.22 | 60 | Sltst : brn gy to drk y brn, calc | 069-2L |
| | | 30 | Sh/Clst: brn blk to dsk y brn, calc, wx | 069-1L |
| | | 10 | Ca : lt gy to m gy | 069-3L |
| | | tr | Cont : Mica-ad, prp | 069-4L |
| 3624.00 | | | | 070 |
| | 2.47 | 60 | Sltst : brn gy to drk y brn, calc | 070-2L |
| | | 30 | Sh/Clst: brn blk to dsk y brn, calc, wx | 070-1L |
| | | 10 | Ca : lt gy to m gy | 070-3L |
| | | tr | Cont : Mica-ad, prp | 070-4L |
| 3630.00 | | | | 071 |
| | 2.18 | 50 | Sltst : brn gy to drk y brn, calc | 071-2L |
| | | 40 | Sh/Clst: brn blk to dsk y brn, calc, wx | 071-1L |
| | | 10 | Ca : lt gy to m gy | 071-3L |
| | | tr | Cont : Mica-ad, prp | 071-4L |
| 3636.00 | | | | 072 |
| | 2.93 | 65 | Sltst : brn gy to drk y brn, calc | 072-2L |
| | 3.13 | 30 | Sh/Clst: brn blk to dsk y brn, calc, wx | 072-1L |
| | | 5 | Ca : lt gy to m gy | 072-3L |
| | | tr | Cont : Mica-ad, prp | 072-4L |

Table 1 : Lithology description for well NOCS 2/8-3

Depth unit of measure: m

| Depth | Type | | Trb | Sample |
|---------|--------------|--|-----|--------------------------------------|
| Int Cvd | TOC% | % Lithology description | | |
| 3642.00 | | | | 073 |
| | 2.32 | 60 Sltst : brn gy to dsk y brn, calc 20 Sh/Clst: brn blk, calc, wx 20 Cont : Mica-ad, fib tr Ca : w to lt gy | | 073-2L 073-1L 073-4L 073-3L |
| 3648.00 | | | | 074 |
| | 3.12 | 75 Sltst : brn gy to drk y brn, calc 15 Sh/Clst: brn blk, calc, wx 5 Ca : lt gy to m gy 5 Cont : Mica-ad, fib | | 074-2L 074-1L 074-3L 074-4L |
| 3655.00 | | | | 075 |
| | 3.03 | 75 Sltst : brn gy to drk y brn, calc 15 Sh/Clst: brn blk, calc, wx 5 Ca : lt gy to m gy 5 Cont : Mica-ad, fib | | 075-2L 075-1L 075-3L 075-4L |
| 3661.00 | | | | 076 |
| | 2.86 3.04 | 70 Sltst : brn gy to drk y brn, calc 30 Sh/Clst: brn blk, calc tr Ca : lt gy to m gy tr Cont : Mica-ad, fib | | 076-2L 076-1L 076-3L 076-4L |
| 3667.00 | | | | 077 |
| | 4.26 | 70 Sltst : brn gy to drk y brn, calc 30 Sh/Clst: brn blk, calc tr Ca : lt gy to m gy tr Cont : Mica-ad, fib | | 077-2L 077-1L 077-3L 077-4L |

Table 1 : Lithology description for well NOCS 2/8-3

Depth unit of measure: m

| Depth | Type | | Trb | Sample |
|---------|------|--------------------------------------|-----|--------|
| Int Cvd | TOC% | % Lithology description | | |
| 3673.00 | | | | 078 |
| | 6.19 | 70 Sltst : brn gy to drk y brn, calc | | 078-2L |
| | 2.44 | 30 Sh/Clst: brn blk, calc | | 078-1L |
| | | tr Ca : lt gy to m gy | | 078-3L |
| | | tr Cont : Mica-ad, fib | | 078-4L |
| 3679.00 | | | | 079 |
| | 4.51 | 80 Sltst : brn gy to drk y brn, calc | | 079-2L |
| | | 15 Sh/Clst: brn blk, calc | | 079-1L |
| | | 5 Ca : lt gy to m gy | | 079-3L |
| | | tr Cont : Mica-ad, fib | | 079-4L |
| 3685.00 | | | | 080 |
| | 3.01 | 70 Sltst : brn gy to drk y brn, calc | | 080-2L |
| | | 25 Sh/Clst: brn blk, calc | | 080-1L |
| | | 5 Ca : lt gy to m gy | | 080-3L |
| | | tr Cont : Mica-ad, fib | | 080-4L |
| 3691.00 | | | | 081 |
| | 4.32 | 80 Sltst : brn gy to drk y brn, calc | | 081-2L |
| | | 15 Sh/Clst: brn blk, calc | | 081-1L |
| | | 5 Ca : lt gy to m gy | | 081-3L |
| | | tr Cont : Mica-ad, fib | | 081-4L |
| 3697.00 | | | | 082 |
| | 5.26 | 75 Sltst : brn gy to drk y brn, calc | | 082-2L |
| | 2.46 | 20 Sh/Clst: brn blk, calc | | 082-1L |
| | | 5 Ca : lt gy to m gy | | 082-3L |
| | | tr Cont : Mica-ad, fib | | 082-4L |

Table 1 : Lithology description for well NOCS 2/8-3

Depth unit of measure: m

| Depth | Type | Trb | Sample |
|---------|------|-----|-----------------------------------|
| Int Cvd | TOC% | % | Lithology description |
| 3703.00 | | | |
| | | 100 | Cont : cem, prp |
| | | | |
| 3709.00 | | | |
| | | 80 | Cont : cem, prp |
| | | 10 | Sltst : brn gy to drk y brn, calc |
| | | 10 | Sh/Clst: brn blk to drk gy |
| 3716.00 | | | |
| | | 90 | Cont : cem, prp |
| | | 5 | Sltst : brn gy to drk y brn, calc |
| | | 5 | Sh/Clst: brn blk to drk gy |
| 3722.00 | | | |
| | | 80 | Cont : cem, prp, dd |
| | | 10 | Sltst : brn gy to drk y brn, calc |
| | | 10 | Sh/Clst: brn blk to drk gy |
| 3728.00 | | | |
| | | 80 | Cont : cem, prp, dd |
| | | 10 | Sltst : brn gy to drk y brn, calc |
| | | 10 | Sh/Clst: brn blk to drk gy |
| 3734.00 | | | |
| | | 70 | Cont : cem, prp, dd |
| | | 15 | Sltst : brn gy to drk y brn, calc |
| 2.54 | | 15 | Sh/Clst: brn blk to drk gy |

Table 1 : Lithology description for well NOCS 2/8-3

Depth unit of measure: m

| Depth | Type | | Trb | Sample |
|---------|------|--------------------------------------|-----|--------|
| Int Cvd | TOC% | % Lithology description | | |
| 3740.00 | | | | 089 |
| | | 80 Cont : cem, prp, dd | | 089-1L |
| | | 10 Sltst : brn gy to drk y brn, calc | | 089-2L |
| | | 10 Sh/Clst: brn blk to drk gy | | 089-3L |
| 3746.00 | | | | 090 |
| | 4.67 | 70 Cont : cem, prp, dd | | 090-1L |
| | | 15 Sltst : brn gy to drk y brn, calc | | 090-2L |
| | | 10 Sh/Clst: brn blk to drk gy | | 090-3L |
| | | 5 Ca : dsk y brn, dol | | 090-4L |
| 3752.00 | | | | 091 |
| | | 75 Cont : cem, prp, dd, fib | | 091-1L |
| | | 10 Sltst : brn gy to drk y brn, calc | | 091-2L |
| | | 10 Sh/Clst: brn blk to drk gy | | 091-3L |
| | | 5 Ca : dsk y brn, dol | | 091-4L |
| 3758.00 | | | | 092 |
| | 3.06 | 75 Cont : cem, prp, dd, fib | | 092-1L |
| | | 20 Sh/Clst: brn blk to drk gy | | 092-3L |
| | | 5 Sltst : brn gy to drk y brn, calc | | 092-2L |
| | | tr Ca : dsk y brn, dol | | 092-4L |
| 3764.00 | | | | 093 |
| | | 75 Cont : cem, prp, dd, fib | | 093-1L |
| | | 15 Sh/Clst: brn blk to drk gy | | 093-3L |
| | | 10 Sltst : brn gy to drk y brn, calc | | 093-2L |
| | | tr Ca : dsk y brn, dol | | 093-4L |

Table 1 : Lithology description for well NOCS 2/8-3

Depth unit of measure: m

| Depth | Type | | Trb | Sample |
|---------|------|------|--------------------------------------|-----------------------|
| Int | Cvd | TOC% | % | Lithology description |
| 3770.00 | | | | 094 |
| | | 2.53 | 60 Cont : cem, prp, dd, fib | 094-1L |
| | | | 20 Sltst : brn gy to drk y brn, calc | 094-2L |
| | | | 20 Sh/Clst: brn blk to drk gy | 094-3L |
| | | | tr Ca : dsk y brn, dol | 094-4L |
| 3776.00 | | | | 095 |
| | | 1.08 | 50 Sh/Clst: brn blk to drk gy | 095-3L |
| | | | 30 Cont : cem, prp, dd, fib | 095-1L |
| | | | 20 Sltst : brn gy to drk y brn, calc | 095-2L |
| | | | tr Ca : dsk y brn, dol | 095-4L |
| 3783.00 | | | | 096 |
| | | 1.47 | 40 Cont : cem, prp, dd, fib | 096-1L |
| | | | 40 Sh/Clst: brn blk to drk gy | 096-3L |
| | | | 20 Sltst : brn gy to drk y brn, calc | 096-2L |
| | | | tr Ca : dsk y brn, dol | 096-4L |
| 3795.00 | | | | 097 |
| | | | 70 Cont : cem, prp, dd, fib | 097-1L |
| | | | 20 Sltst : brn gy to drk y brn, calc | 097-2L |
| | | | 10 Sh/Clst: brn blk to drk gy | 097-3L |
| | | | tr Ca : dsk y brn, dol | 097-4L |
| 3807.00 | | | | 098 |
| | | 2.35 | 60 Cont : cem, prp, dd, fib | 098-1L |
| | | | 20 Sltst : brn gy to drk y brn, calc | 098-2L |
| | | 3.89 | 20 Sh/Clst: brn blk to drk gy | 098-3L |
| | | | tr Ca : dsk y brn, dol | 098-4L |

Table 1 : Lithology description for well NOCS 2/8-3

Depth unit of measure: m

| Depth | Type | | Trb | Sample |
|---------|------|---|-----|--|
| Int Cvd | TOC% | % Lithology description | | |
| 3813.00 | | | | 099 |
| | 1.63 | 60 Cont : cem, prp, dd, fib 20 Sltst : brn gy to drk y brn, calc 10 Sh/Clst: brn blk to drk gy 10 Ca : m gy to dsk y brn | | 099-1L 099-2L 099-3L 099-4L |
| 3819.00 | | | | 100 |
| | 2.15 | 60 Cont : cem, prp, dd, fib 20 Sh/Clst: brn blk to drk gy 15 Sltst : brn gy to drk y brn, calc 5 Ca : m gy to dsk y brn | | 100-1L 100-3L 100-2L 100-4L |
| 3828.00 | | | | 101 |
| | 2.27 | 40 Cont : cem, prp, dd, fib, tar-ad 30 Sltst : brn gy to drk y brn, calc 30 Sh/Clst: brn blk to drk gy tr Ca : m gy to dsk y brn | | 101-1L 101-2L 101-3L 101-4L |
| 3834.00 | | | | 102 |
| | 3.07 | 30 Cont : cem, prp, dd, fib, tar-ad 30 Sltst : brn gy to drk y brn, calc 30 Sh/Clst: brn blk to drk gy 10 S/Sst : w, f, l tr Ca : m gy to dsk y brn | | 102-1L 102-2L 102-3L 102-5L 102-4L |
| 3837.00 | | | | 103 |
| | 2.53 | 40 Cont : cem, prp, dd, fib, tar-ad 30 Sltst : brn gy to drk y brn, calc 30 Sh/Clst: brn blk to drk gy tr Ca : m gy to dsk y brn | | 103-1L 103-2L 103-3L 103-4L |

Table 1 : Lithology description for well NOCS 2/8-3

Depth unit of measure: m

| Depth | Type | | Trb | Sample |
|---------|------|--------------------------------------|-----|--------|
| Int Cvd | TOC% | % Lithology description | | |
| 3844.00 | | | | 104 |
| | 6.35 | 50 Cont : cem, prp, dd, fib, tar-ad | | 104-1L |
| | | 30 Sh/Clst: brn blk to drk gy | | 104-3L |
| | | 20 Sltst : brn gy to drk y brn, calc | | 104-2L |
| | | tr Ca : m gy to dsk y brn | | 104-4L |
| 3850.00 | | | | 105 |
| | 2.39 | 30 Cont : cem, prp, dd, fib, tar-ad | | 105-1L |
| | | 30 Sltst : brn gy to drk y brn, calc | | 105-2L |
| | | 30 Sh/Clst: brn blk to drk gy | | 105-3L |
| | | 10 S/Sst : w, f, l | | 105-5L |
| | | tr Ca : m gy to dsk y brn | | 105-4L |
| 3856.00 | | | | 106 |
| | 0.81 | 50 Sh/Clst: brn blk to drk gy | | 106-3L |
| | | 30 Cont : cem, prp, dd, fib, tar-ad | | 106-1L |
| | | 20 Sltst : brn gy to drk y brn, calc | | 106-2L |
| | | tr Ca : m gy to dsk y brn | | 106-4L |
| | | tr S/Sst : w, f, l | | 106-5L |
| 3862.00 | | | | 107 |
| | 1.56 | 50 Sh/Clst: brn blk to drk gy | | 107-3L |
| | | 30 Cont : cem, prp, dd, fib, tar-ad | | 107-1L |
| | | 20 Sltst : brn gy to drk y brn, calc | | 107-2L |
| | | tr Ca : m gy to dsk y brn | | 107-4L |
| | | tr S/Sst : w, f, l | | 107-5L |
| 3880.00 | | | | 108 |
| | | 100 Cont : Mica-ad, fib | | 108-1L |

Table 1 : Lithology description for well NOCS 2/8-3

Depth unit of measure: m

| Depth | Type | | Trb | Sample |
|---------|------|-------------------------|-----|--------|
| Int Cvd | TOC% | % Lithology description | | |
| 3889.00 | | | | 109 |
| | | 100 Cont : Mica-ad, fib | | 109-1L |
| 3892.00 | | | | 110 |
| | | 100 Cont : Mica-ad, fib | | 110-1L |
| 3898.00 | | | | 111 |
| | | 100 Cont : Mica-ad, fib | | 111-1L |

Table 2 : Rock-Eval table for well NOCS 2/8-3

Depth unit of measure: m

| Depth | Typ | Lithology | S1 | S2 | S3 | S2/S3 | TOC | HI | OI | PP | PI | Tmax | Sample |
|---------|-----|-------------------------------|-------|-------|------|-------|-------|-----|----|------|------|------|--------|
| 3478.00 | cut | Sh/Clst: lt gy to drk gy | 2.02 | 1.06 | 0.53 | 2.00 | 0.89 | 119 | 60 | 3.1 | 0.66 | 350 | 047-1L |
| 3496.00 | cut | Ca : pl y brn to dsk y brn | 1.29 | 0.52 | 0.46 | 1.13 | 0.56 | 93 | 82 | 1.8 | 0.71 | 362 | 050-3L |
| 3514.00 | cut | Sh/Clst: drk y brn | 1.66 | 0.39 | 0.24 | 1.63 | 0.53 | 74 | 45 | 2.0 | 0.81 | 344 | 053-1L |
| 3520.00 | cut | Sh/Clst: drk y brn | 1.85 | 0.54 | 0.24 | 2.25 | 0.55 | 98 | 44 | 2.4 | 0.77 | 353 | 054-1L |
| 3520.00 | cut | Sltst : brn gy to lt y gy | 1.54 | 0.59 | 0.35 | 1.69 | 0.60 | 98 | 58 | 2.1 | 0.72 | 356 | 054-2L |
| 3527.00 | cut | Sh/Clst: m gy to drk y brn | 2.14 | 0.59 | 0.43 | 1.37 | 0.68 | 87 | 63 | 2.7 | 0.78 | 346 | 055-1L |
| 3533.00 | cut | Sh/Clst: m gy to drk y brn | 2.59 | 0.76 | 0.35 | 2.17 | 0.69 | 110 | 51 | 3.3 | 0.77 | 344 | 056-1L |
| 3539.00 | cut | Sh/Clst: m gy to drk y brn | 1.70 | 0.67 | 0.28 | 2.39 | 0.52 | 129 | 54 | 2.4 | 0.72 | 362 | 057-1L |
| 3539.00 | cut | Sh/Clst: brn blk to dsk y brn | 1.42 | 0.52 | 0.34 | 1.53 | 0.49 | 106 | 69 | 1.9 | 0.73 | 357 | 057-4L |
| 3551.00 | cut | Sh/Clst: brn blk to dsk y brn | 10.11 | 31.96 | 1.32 | 24.21 | 9.67 | 331 | 14 | 42.1 | 0.24 | 433 | 058-4L |
| 3557.00 | cut | Sh/Clst: brn blk to dsk y brn | 10.20 | 32.63 | 1.31 | 24.91 | 9.58 | 341 | 14 | 42.8 | 0.24 | 432 | 059-4L |
| 3563.00 | cut | Sh/Clst: brn blk to dsk y brn | 11.11 | 40.51 | 1.34 | 30.23 | 11.17 | 363 | 12 | 51.6 | 0.22 | 434 | 060-3L |
| 3572.00 | cut | Sh/Clst: brn blk to dsk y brn | 9.52 | 33.41 | 1.57 | 21.28 | 9.87 | 339 | 16 | 42.9 | 0.22 | 434 | 061-3L |
| 3575.00 | cut | Sh/Clst: brn blk to dsk y brn | 10.38 | 32.94 | 1.95 | 16.89 | 10.11 | 326 | 19 | 43.3 | 0.24 | 434 | 062-3L |
| 3581.00 | cut | Sh/Clst: brn blk to dsk y brn | 9.31 | 25.80 | 1.34 | 19.25 | 7.68 | 336 | 17 | 35.1 | 0.27 | 435 | 063-3L |

Table 2 : Rock-Eval table for well NOCS 2/8-3

Depth unit of measure: m

| Depth | Typ | Lithology | S1 | S2 | S3 | S2/S3 | TOC | HI | OI | PP | PI | Tmax | Sample |
|---------|-----|-------------------------------|------|-------|------|-------|------|-----|----|------|------|------|--------|
| 3587.00 | cut | Sh/Clst: brn blk to dsk y brn | 8.48 | 19.01 | 1.10 | 17.28 | 6.45 | 295 | 17 | 27.5 | 0.31 | 435 | 064-3L |
| 3594.00 | cut | Sh/Clst: brn blk to dsk y brn | 6.34 | 12.06 | 0.85 | 14.19 | 4.81 | 251 | 18 | 18.4 | 0.34 | 435 | 065-1L |
| 3600.00 | cut | Sltst : brn gy to drk y brn | 9.71 | 18.94 | 0.88 | 21.52 | 5.96 | 318 | 15 | 28.7 | 0.34 | 432 | 066-2L |
| 3606.00 | cut | Sltst : brn gy to drk y brn | 5.58 | 6.25 | 0.67 | 9.33 | 3.67 | 170 | 18 | 11.8 | 0.47 | 435 | 067-2L |
| 3612.00 | cut | Sh/Clst: brn blk to dsk y brn | 3.18 | 4.38 | 0.55 | 7.96 | 2.42 | 181 | 23 | 7.6 | 0.42 | 439 | 068-1L |
| 3618.00 | cut | Sltst : brn gy to drk y brn | 4.29 | 6.01 | 0.57 | 10.54 | 3.22 | 187 | 18 | 10.3 | 0.42 | 436 | 069-2L |
| 3624.00 | cut | Sh/Clst: brn blk to dsk y brn | 3.54 | 4.44 | 0.63 | 7.05 | 2.47 | 180 | 26 | 8.0 | 0.44 | 438 | 070-1L |
| 3630.00 | cut | Sh/Clst: brn blk to dsk y brn | 3.51 | 3.67 | 0.59 | 6.22 | 2.18 | 168 | 27 | 7.2 | 0.49 | 438 | 071-1L |
| 3636.00 | cut | Sh/Clst: brn blk to dsk y brn | 7.61 | 6.07 | 0.82 | 7.40 | 3.13 | 194 | 26 | 13.7 | 0.56 | 438 | 072-1L |
| 3636.00 | cut | Sltst : brn gy to drk y brn | 6.36 | 5.10 | 0.70 | 7.29 | 2.93 | 174 | 24 | 11.5 | 0.55 | 435 | 072-2L |
| 3642.00 | cut | Sltst : brn gy to dsk y brn | 4.07 | 4.46 | 0.57 | 7.82 | 2.32 | 192 | 25 | 8.5 | 0.48 | 435 | 073-2L |
| 3648.00 | cut | Sltst : brn gy to drk y brn | 5.36 | 5.92 | 0.62 | 9.55 | 3.12 | 190 | 20 | 11.3 | 0.48 | 437 | 074-2L |
| 3655.00 | cut | Sltst : brn gy to drk y brn | 5.36 | 5.35 | 0.68 | 7.87 | 3.03 | 177 | 22 | 10.7 | 0.50 | 435 | 075-2L |
| 3661.00 | cut | Sh/Clst: brn blk | 5.63 | 5.02 | 0.84 | 5.98 | 3.04 | 165 | 28 | 10.7 | 0.53 | 438 | 076-1L |
| 3661.00 | cut | Sltst : brn gy to drk y brn | 5.60 | 4.87 | 0.72 | 6.76 | 2.86 | 170 | 25 | 10.5 | 0.53 | 434 | 076-2L |

Table 2 : Rock-Eval table for well NOCS 2/8-3

Depth unit of measure: m

| Depth | Typ | Lithology | S1 | S2 | S3 | S2/S3 | TOC | HI | OI | PP | PI | Tmax | Sample |
|---------|-----|-----------------------------|------|-------|------|-------|------|-----|----|------|------|------|--------|
| 3667.00 | cut | Sh/Clst: brn blk | 6.57 | 8.26 | 1.09 | 7.58 | 4.26 | 194 | 26 | 14.8 | 0.44 | 435 | 077-1L |
| 3673.00 | cut | Sh/Clst: brn blk | 3.95 | 4.40 | 0.62 | 7.10 | 2.44 | 180 | 25 | 8.4 | 0.47 | 438 | 078-1L |
| 3673.00 | cut | Sltst : brn gy to drk y brn | 8.19 | 13.70 | 1.47 | 9.32 | 6.19 | 221 | 24 | 21.9 | 0.37 | 433 | 078-2L |
| 3679.00 | cut | Sltst : brn gy to drk y brn | 7.00 | 11.71 | 0.84 | 13.94 | 4.51 | 260 | 19 | 18.7 | 0.37 | 434 | 079-2L |
| 3685.00 | cut | Sh/Clst: brn blk | 5.89 | 6.03 | 0.78 | 7.73 | 3.01 | 200 | 26 | 11.9 | 0.49 | 437 | 080-1L |
| 3691.00 | cut | Sltst : brn gy to drk y brn | 6.75 | 7.88 | 1.19 | 6.62 | 4.32 | 182 | 28 | 14.6 | 0.46 | 431 | 081-2L |
| 3697.00 | cut | Sh/Clst: brn blk | 4.66 | 4.51 | 0.75 | 6.01 | 2.46 | 183 | 30 | 9.2 | 0.51 | 437 | 082-1L |
| 3697.00 | cut | Sltst : brn gy to drk y brn | 7.60 | 10.08 | 1.36 | 7.41 | 5.26 | 192 | 26 | 17.7 | 0.43 | 433 | 082-2L |
| 3734.00 | cut | Sh/Clst: brn blk to drk gy | 3.42 | 4.42 | 0.77 | 5.74 | 2.54 | 174 | 30 | 7.8 | 0.44 | 440 | 088-3L |
| 3746.00 | cut | Sltst : brn gy to drk y brn | 5.39 | 9.56 | 1.18 | 8.10 | 4.67 | 205 | 25 | 15.0 | 0.36 | 434 | 090-2L |
| 3758.00 | cut | Sh/Clst: brn blk to drk gy | 3.97 | 5.79 | 0.64 | 9.05 | 3.06 | 189 | 21 | 9.8 | 0.41 | 436 | 092-3L |
| 3770.00 | cut | Sh/Clst: brn blk to drk gy | 3.04 | 5.57 | 0.55 | 10.13 | 2.53 | 220 | 22 | 8.6 | 0.35 | 438 | 094-3L |
| 3776.00 | cut | Sh/Clst: brn blk to drk gy | 1.24 | 1.28 | 0.48 | 2.67 | 1.08 | 119 | 44 | 2.5 | 0.49 | 436 | 095-3L |
| 3783.00 | cut | Sh/Clst: brn blk to drk gy | 2.01 | 2.63 | 0.53 | 4.96 | 1.47 | 179 | 36 | 4.6 | 0.43 | 438 | 096-3L |
| 3807.00 | cut | Sltst : brn gy to drk y brn | 4.45 | 5.00 | 0.72 | 6.94 | 2.35 | 213 | 31 | 9.4 | 0.47 | 431 | 098-2L |

Table 2 : Rock-Eval table for well NOCS 2/8-3

Depth unit of measure: m

| Depth | Typ | Lithology | S1 | S2 | S3 | S2/S3 | TOC | HI | OI | PP | PI | Tmax | Sample |
|---------|-----|-----------------------------|-------|-------|------|-------|------|-----|----|------|------|------|--------|
| 3807.00 | cut | Sh/Clst: brn blk to drk gy | 4.96 | 4.45 | 2.71 | 1.64 | 3.89 | 114 | 70 | 9.4 | 0.53 | 438 | 098-3L |
| 3813.00 | cut | Sltst : brn gy to drk y brn | 2.92 | 2.59 | 0.88 | 2.94 | 1.63 | 159 | 54 | 5.5 | 0.53 | 434 | 099-2L |
| 3819.00 | cut | Sh/Clst: brn blk to drk gy | 4.71 | 4.28 | 0.75 | 5.71 | 2.15 | 199 | 35 | 9.0 | 0.52 | 435 | 100-3L |
| 3828.00 | cut | Sh/Clst: brn blk to drk gy | 5.93 | 3.80 | 1.19 | 3.19 | 2.27 | 167 | 52 | 9.7 | 0.61 | 403 | 101-3L |
| 3834.00 | cut | Sh/Clst: brn blk to drk gy | 7.93 | 5.53 | 0.90 | 6.14 | 3.07 | 180 | 29 | 13.5 | 0.59 | 435 | 102-3L |
| 3837.00 | cut | Sltst : brn gy to drk y brn | 5.43 | 6.02 | 0.85 | 7.08 | 2.53 | 238 | 34 | 11.4 | 0.47 | 425 | 103-2L |
| 3844.00 | cut | Sh/Clst: brn blk to drk gy | 14.34 | 15.54 | 1.66 | 9.36 | 6.35 | 245 | 26 | 29.9 | 0.48 | 430 | 104-3L |
| 3850.00 | cut | Sh/Clst: brn blk to drk gy | 3.75 | 4.17 | 0.93 | 4.48 | 2.39 | 174 | 39 | 7.9 | 0.47 | 433 | 105-3L |
| 3856.00 | cut | Sh/Clst: brn blk to drk gy | 0.59 | 1.00 | 0.53 | 1.89 | 0.81 | 123 | 65 | 1.6 | 0.37 | 439 | 106-3L |
| 3862.00 | cut | Sh/Clst: brn blk to drk gy | 1.77 | 3.30 | 0.68 | 4.85 | 1.56 | 212 | 44 | 5.1 | 0.35 | 437 | 107-3L |

Table 3 : Thermal Maturity Data for well NOCS 2/8-3

Depth unit of measure: m

| Depth | Typ | Lithology | Vitrinite Reflectance (%) | Number of Readings | Standard Deviation | Spore Fluorescence Colour | SCI | T _{max} (°C) | Sample |
|---------|-----|-----------|---------------------------------|-----------------------|-----------------------|---------------------------------|-----|--------------------------|--------|
| 1039.00 | cut | bulk | 0.37 | 20 | 0.06 | 3+4 | - | - | 008-0B |
| 1219.00 | cut | bulk | 0.33 | 16 | 0.04 | 3+4 | - | - | 010-0B |
| 1408.00 | cut | bulk | 0.33 | 7 | 0.07 | 3+4 | - | - | 012-0B |
| 1591.00 | cut | bulk | 0.35 | 15 | 0.05 | 3+4 | - | - | 014-0B |
| 1774.00 | cut | bulk | 0.37 | 11 | 0.05 | 4 | - | - | 016-0B |
| 1951.00 | cut | bulk | 0.37 | 19 | 0.04 | 5 | - | - | 018-0B |
| 2134.00 | cut | bulk | 0.38 | 21 | 0.04 | 3+4+5 | - | - | 020-0B |
| 2316.00 | cut | bulk | 0.39 | 20 | 0.05 | 4 | - | - | 022-0B |
| 2499.00 | cut | bulk | 0.39 | 10 | 0.04 | 5 | - | - | 024-0B |
| 2682.00 | cut | bulk | 0.41 | 16 | 0.08 | 4+5 | - | - | 026-0B |
| 2768.00 | cut | bulk | 0.41 | 25 | 0.06 | 5 | - | - | 027-0B |
| 2963.00 | cut | bulk | 0.43 | 6 | 0.04 | 5 | - | - | 029-0B |
| 3048.00 | cut | bulk | 0.42 | 20 | 0.06 | 5 | - | - | 030-0B |
| 3146.00 | cut | bulk | 0.43 | 8 | 0.05 | 4 | - | - | 031-0B |

Table 3 : Thermal Maturity Data for well NOCS 2/8-3

Depth unit of measure: m

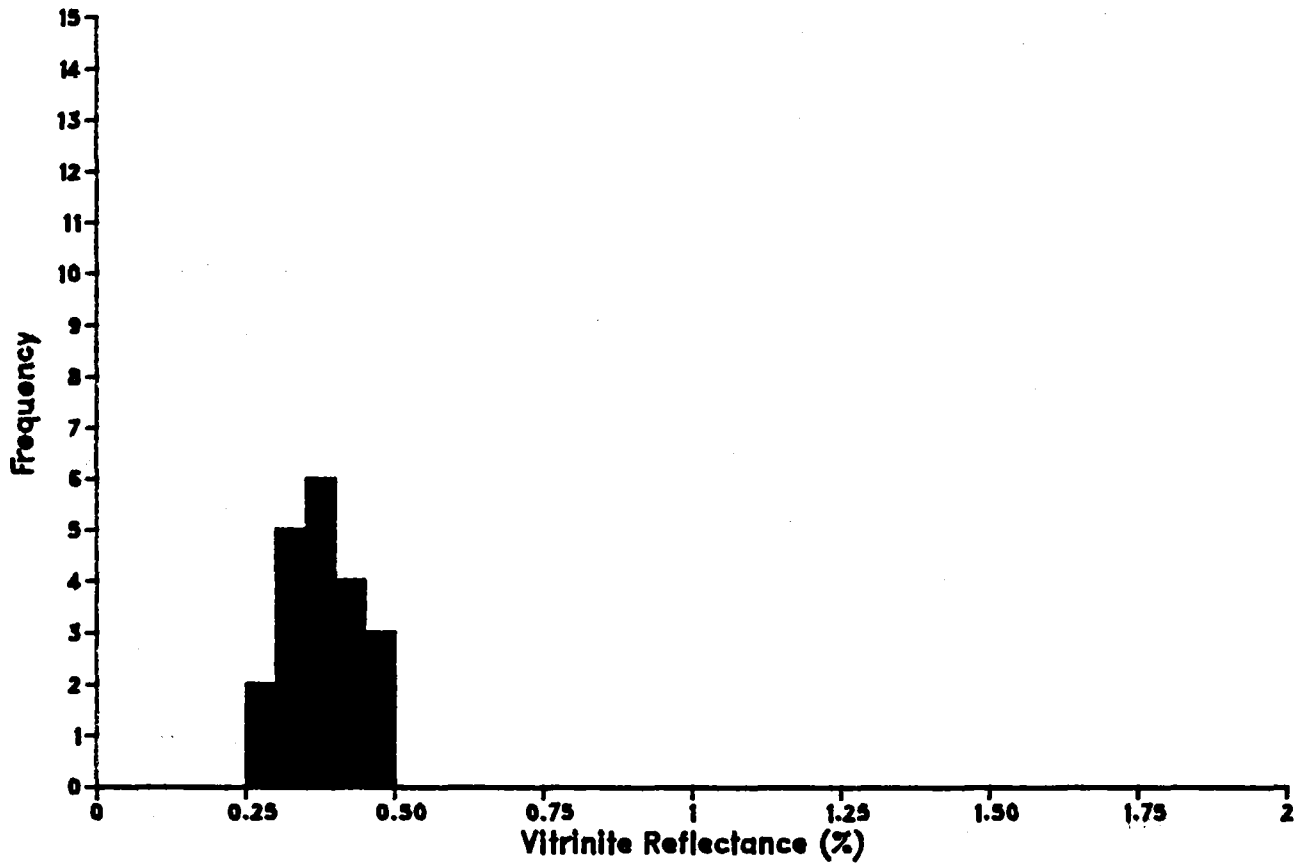
| Depth | Typ Lithology | Vitrinite Reflectance (%) | Number of Readings | Standard Deviation | Spore Fluorescence Colour | SCI | T _{max} (°C) | Sample |
|---------|---------------|---------------------------|--------------------|--------------------|---------------------------|-----|-----------------------|--------|
| 3237.00 | cut bulk | 0.39 | 3 | 0.01 | 4+5 | - | - | 032-0B |
| 3328.00 | cut bulk | 0.48 | 2 | 0.04 | 4 | - | - | 033-0B |
| 3466.00 | cut bulk | 0.52 | 1 | 0.00 | 0 | - | - | 045-0B |
| 3539.00 | cut bulk | 0.44 | 6 | 0.05 | 4 | - | - | 057-0B |
| 3606.00 | cut bulk | 0.41 | 1 | 0.00 | 4+5 | - | - | 067-0B |
| 3685.00 | cut bulk | 0.46 | 4 | 0.07 | 4 | - | - | 080-0B |
| 3776.00 | cut bulk | 0.47 | 2 | 0.05 | 4 | - | - | 095-0B |
| 3856.00 | cut bulk | 0.56 | 4 | 0.07 | 5+6 | - | - | 106-0B |

APPENDIX 2

Histograms

Vitrinite Reflectance Histogram

Well: NOCS 2/8-3
Depth: 1039.00(m)
Sample: 8-0b

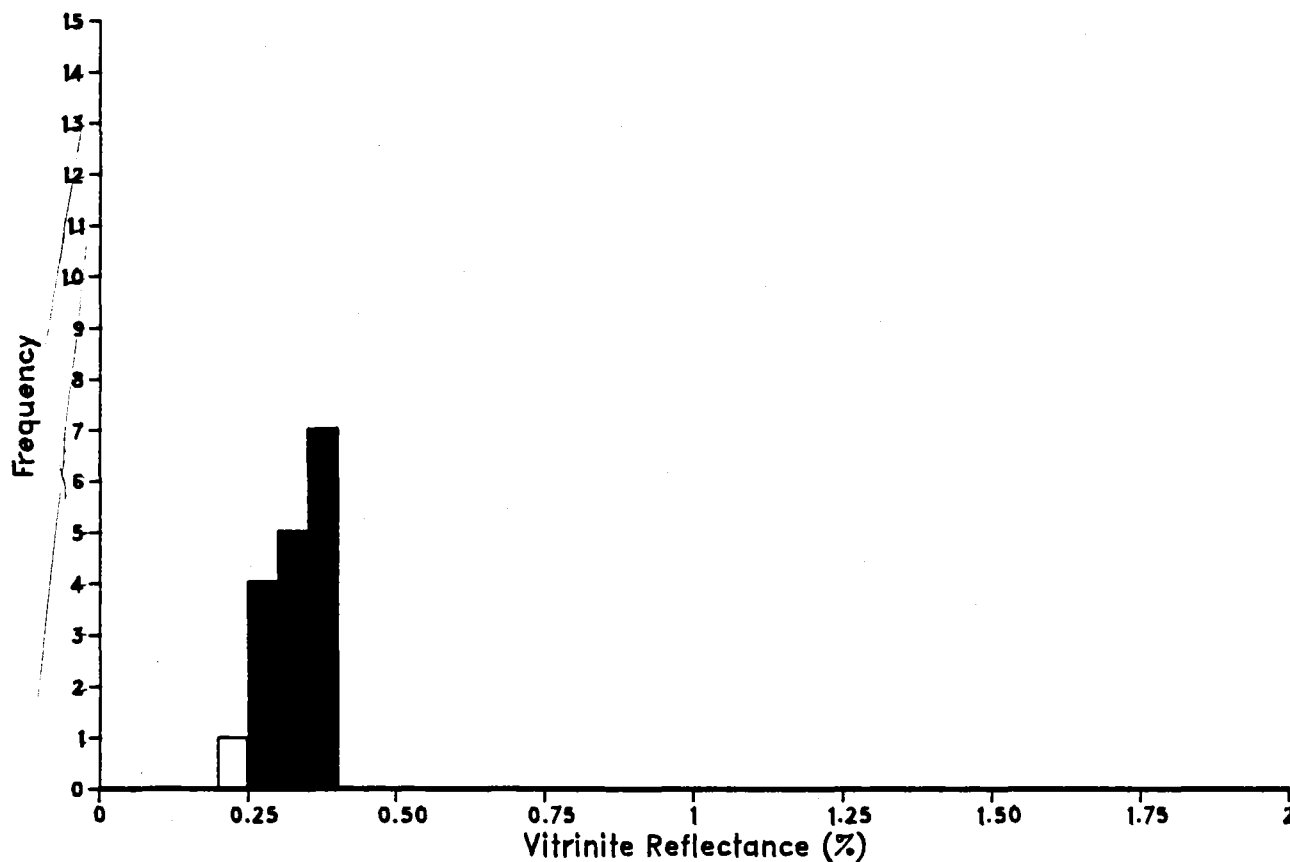


| Statistics: | Mean | St.Dev. | n |
|--|------|---------|----|
| Indigenous Population (from 0.250 to 0.500): | 0.37 | 0.06 | 20 |

| Readings: | | | | | | | | | |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.270 | 0.290 | 0.300 | 0.300 | 0.310 | 0.310 | 0.310 | 0.360 | 0.360 | 0.370 |
| 0.370 | 0.380 | 0.380 | 0.410 | 0.420 | 0.420 | 0.430 | 0.450 | 0.450 | 0.480 |

Vitrinite Reflectance Histogram

Well: NOCS 2/8-3
Depth: 1219.00(m)
Sample: 10-0b

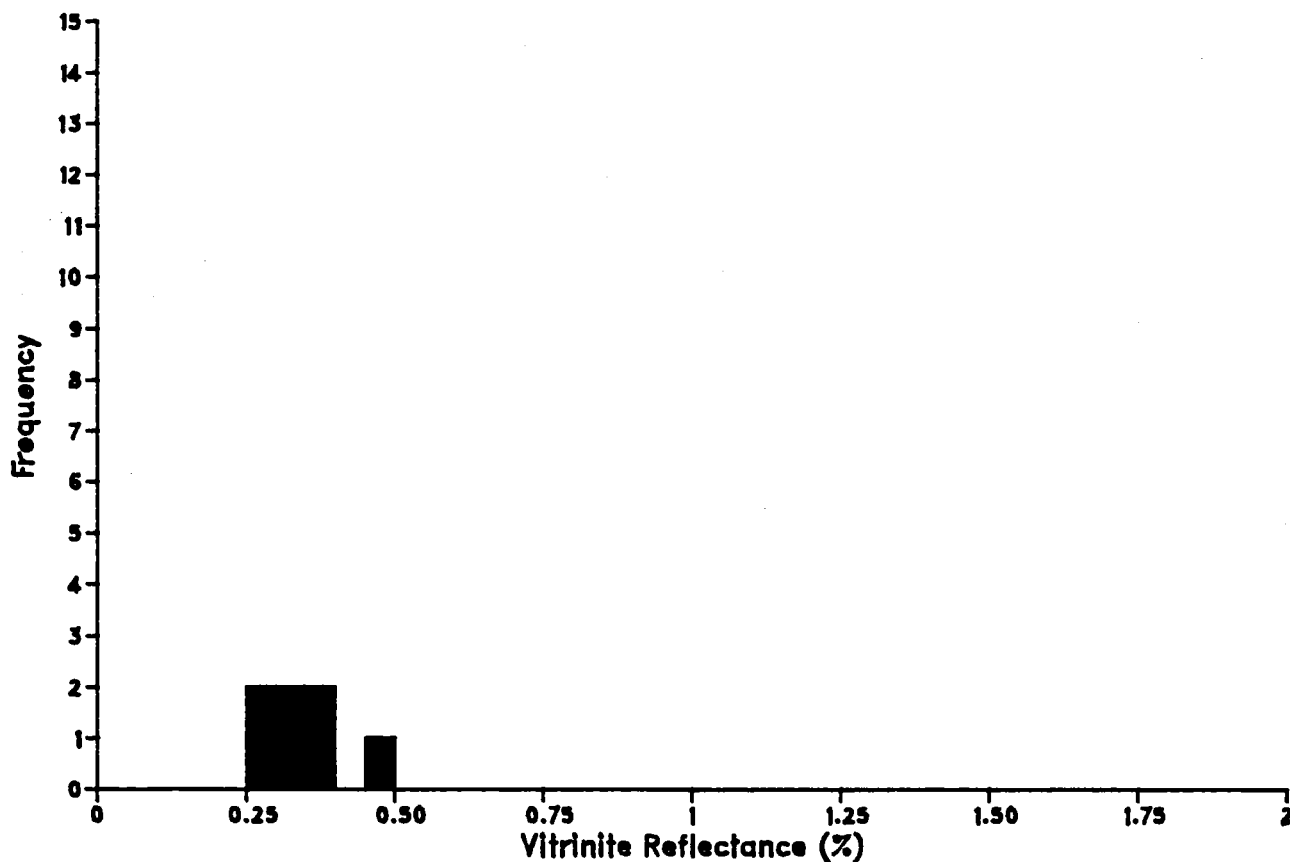


| Statistics: | Mean | St.Dev. | n |
|--|------|---------|----|
| Indigenous Population (from 0.250 to 0.400): | 0.33 | 0.04 | 16 |
| Population Two (from 0.150 to 0.249): | 0.23 | 0.00 | 1 |

| Readings: | | | | | | | | | |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.230 | 0.250 | 0.260 | 0.280 | 0.280 | 0.310 | 0.320 | 0.330 | 0.330 | 0.340 |
| 0.350 | 0.350 | 0.350 | 0.360 | 0.370 | 0.380 | 0.390 | | | |

Vitrinite Reflectance Histogram

Well: NOCS 2/8-3
Depth: 1408.00(m)
Sample: 12-0b



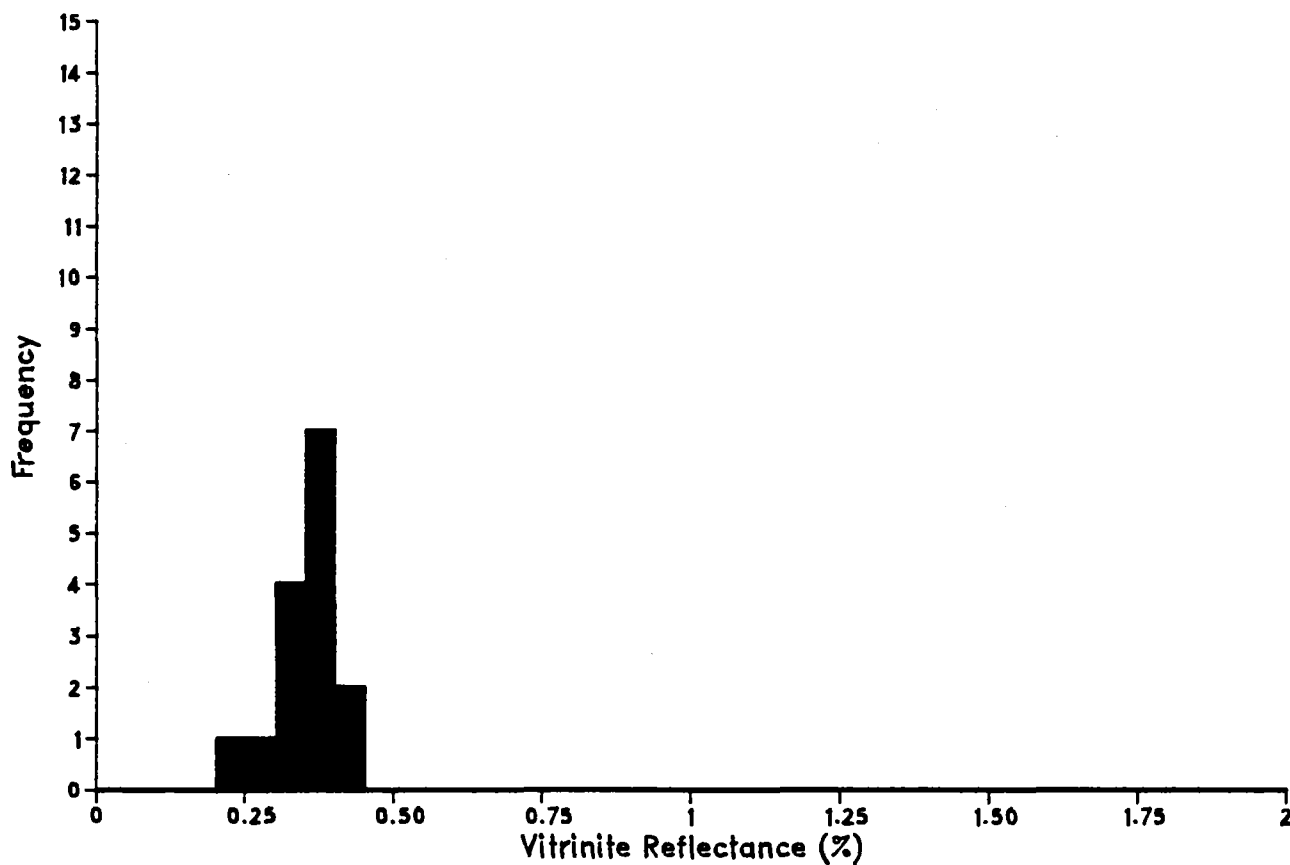
| Statistics: | Mean | St.Dev. | n |
|--|------|---------|---|
| Indigenous Population (from 0.250 to 0.500): | 0.33 | 0.07 | 7 |

Readings:

0.250 0.250 0.300 0.310 0.350 0.360 0.460

Vitrinite Reflectance Histogram

Well: NOCS 2/8-3
Depth: 1591.00(m)
Sample: 14-0b

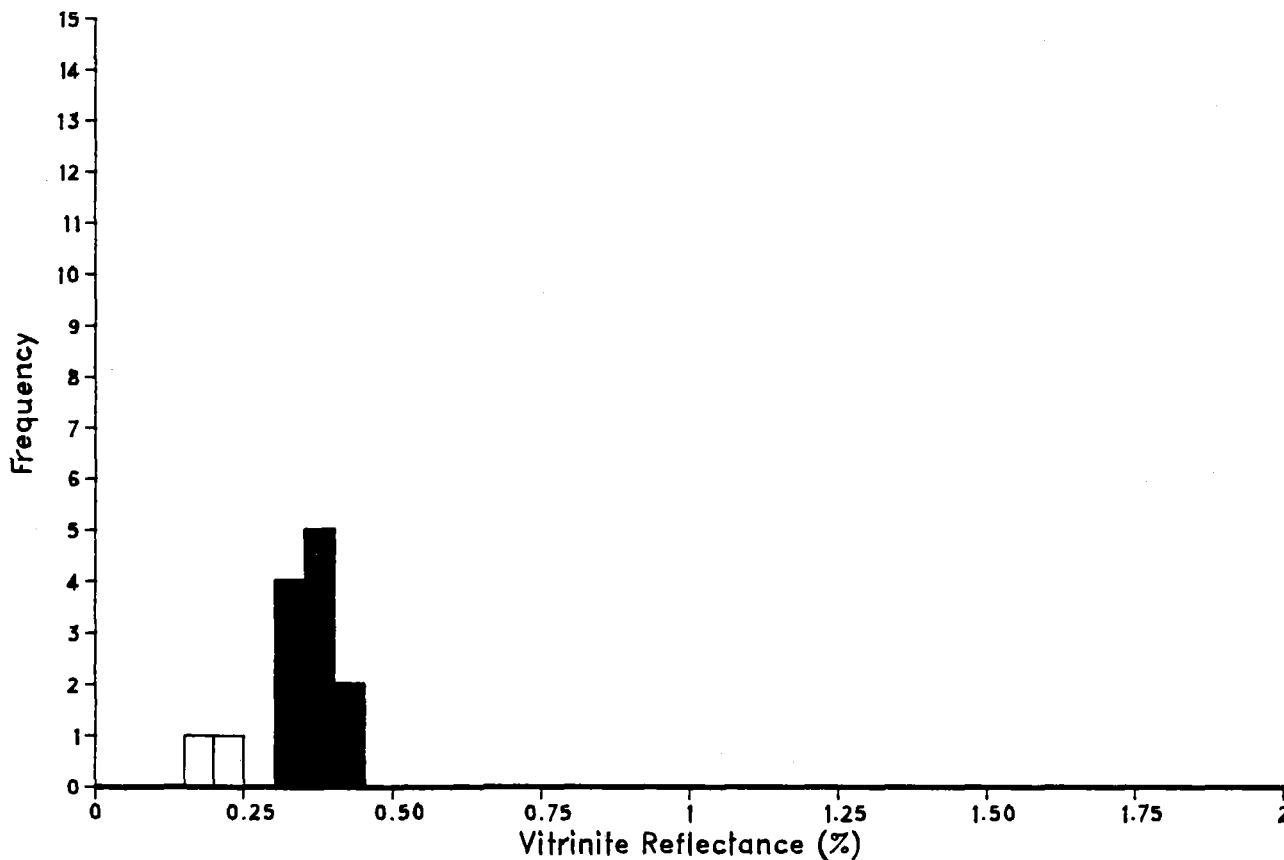


| Statistics: | Mean | St.Dev. | n |
|--|------|---------|----|
| Indigenous Population (from 0.200 to 0.450): | 0.35 | 0.05 | 15 |

| Readings: | | | | | | | | | |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.240 | 0.290 | 0.310 | 0.310 | 0.330 | 0.340 | 0.350 | 0.350 | 0.360 | 0.360 |
| 0.370 | 0.380 | 0.390 | 0.400 | 0.420 | | | | | |

Vitrinite Reflectance Histogram

Well: NOCS 2/8-3
Depth: 1774.00(m)
Sample: 16-0b

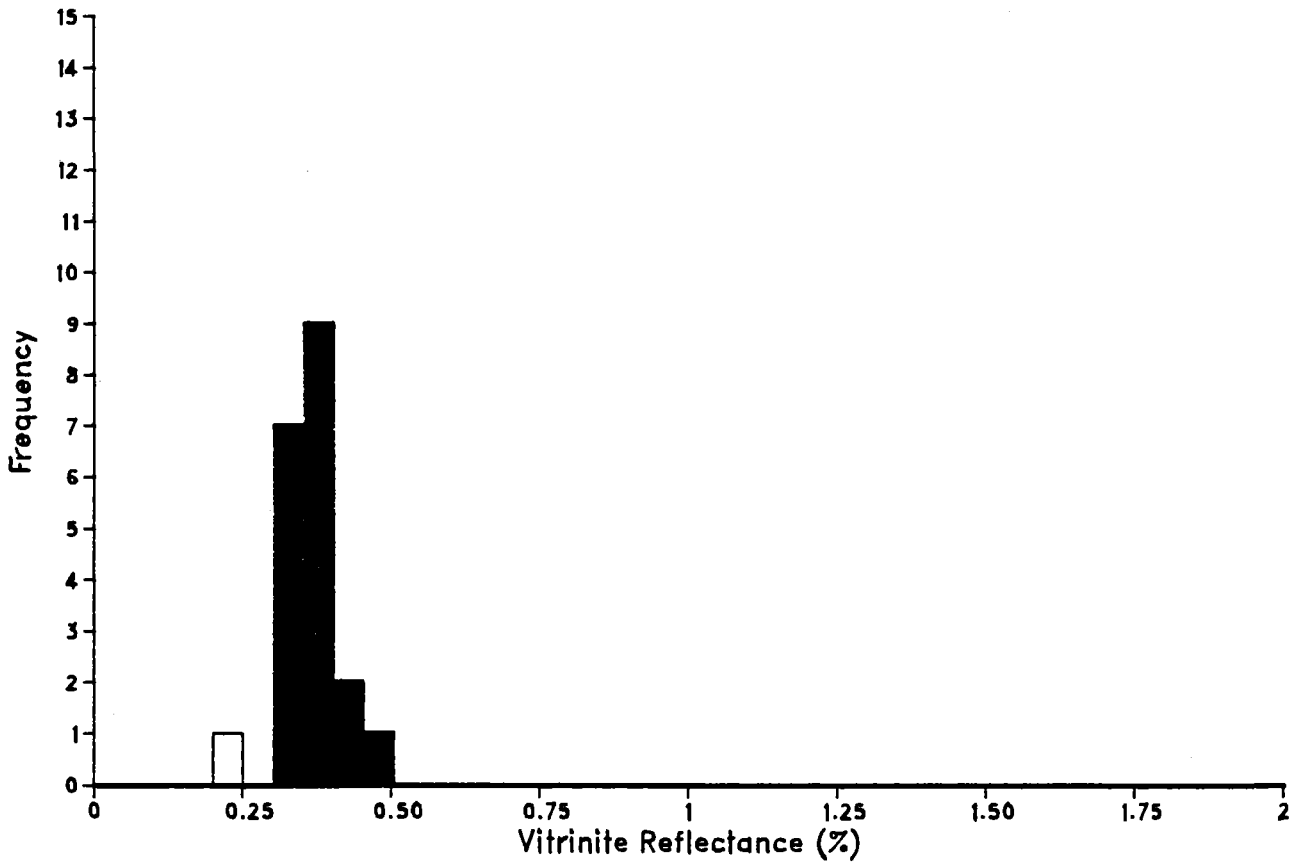


| Statistics: | Mean | St.Dev. | n |
|--|------|---------|----|
| Indigenous Population (from 0.300 to 0.450): | 0.37 | 0.05 | 11 |
| Population Two (from 0.150 to 0.200): | 0.19 | 0.01 | 2 |

| Readings: | | | | | | | | | |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.180 | 0.200 | 0.300 | 0.300 | 0.340 | 0.340 | 0.350 | 0.360 | 0.380 | 0.390 |
| 0.390 | 0.440 | 0.440 | | | | | | | |

Vitrinite Reflectance Histogram

Well: NOCS 2/8-3
Depth: 1951.00(m)
Sample: 18-0b

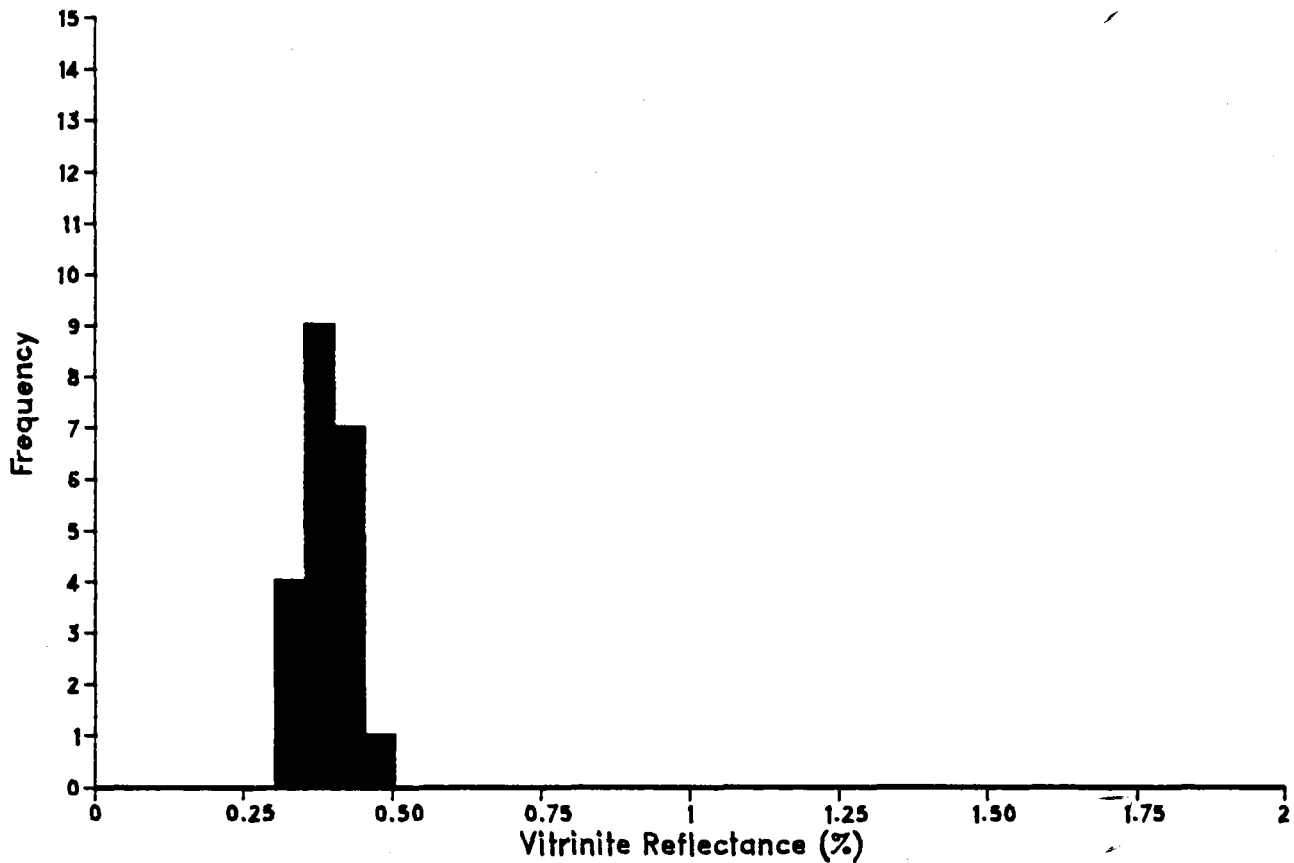


| Statistics: | Mean | St.Dev. | n |
|--|------|---------|----|
| Indigenous Population (from 0.300 to 0.500): | 0.37 | 0.04 | 19 |
| Population Two (from 0.200 to 0.250): | 0.24 | 0.00 | 1 |

| Readings: | | | | | | | | | |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.240 | 0.310 | 0.310 | 0.320 | 0.330 | 0.330 | 0.340 | 0.340 | 0.350 | 0.370 |
| 0.370 | 0.370 | 0.380 | 0.380 | 0.390 | 0.390 | 0.390 | 0.410 | 0.440 | 0.450 |

Vitrinite Reflectance Histogram

Well: NOCS 2/8-3
Depth: 2134.00(m)
Sample: 20-0b

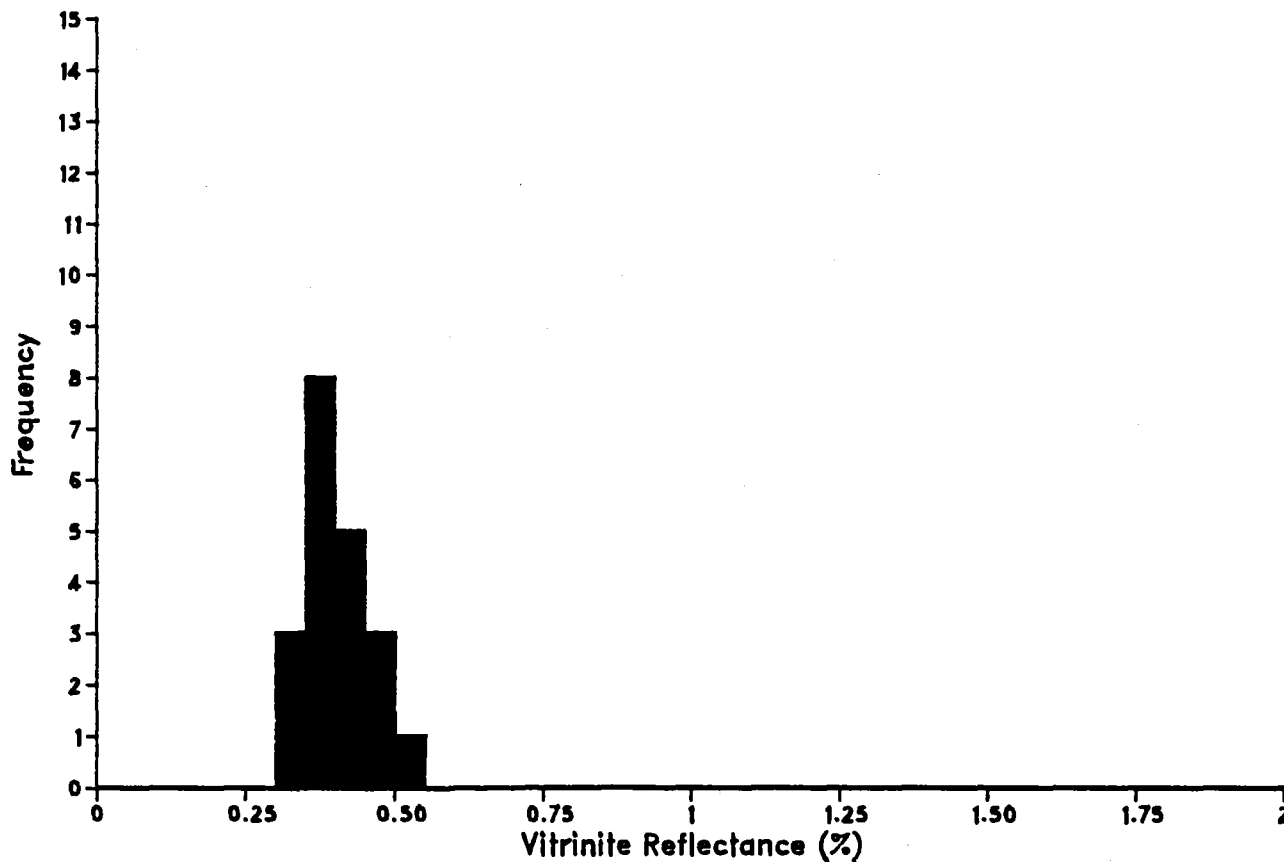


| Statistics: | Mean | St.Dev. | n |
|--|------|---------|----|
| Indigenous Population (from 0.300 to 0.500): | 0.38 | 0.04 | 21 |

| Readings: | | | | | | | | | |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.300 | 0.320 | 0.330 | 0.340 | 0.350 | 0.360 | 0.360 | 0.370 | 0.370 | 0.380 |
| 0.380 | 0.390 | 0.390 | 0.400 | 0.400 | 0.410 | 0.420 | 0.420 | 0.420 | 0.430 |
| 0.450 | | | | | | | | | |

Vitrinite Reflectance Histogram

Well: NOCS 2/8-3
Depth: 2316.00(m)
Sample: 22-0b

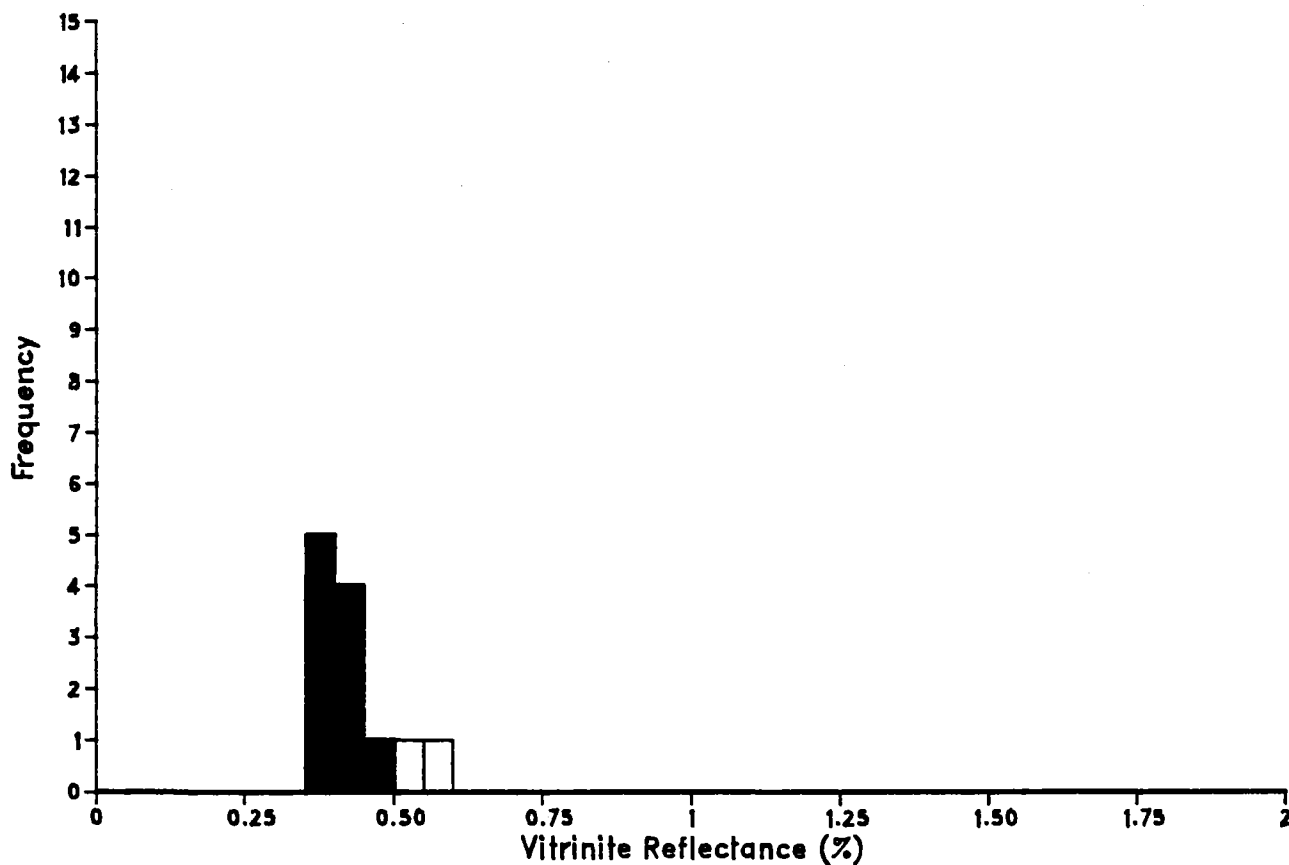


| Statistics: | Mean | St.Dev. | n |
|--|------|---------|----|
| Indigenous Population (from 0.300 to 0.550): | 0.39 | 0.05 | 20 |

| Readings: | | | | | | | | | |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.320 | 0.330 | 0.330 | 0.350 | 0.350 | 0.360 | 0.360 | 0.370 | 0.370 | 0.370 |
| 0.390 | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.460 | 0.460 | 0.460 | 0.500 |

Vitrinite Reflectance Histogram

Well: NOCS 2/8-3
Depth: 2499.00(m)
Sample: 24-0b

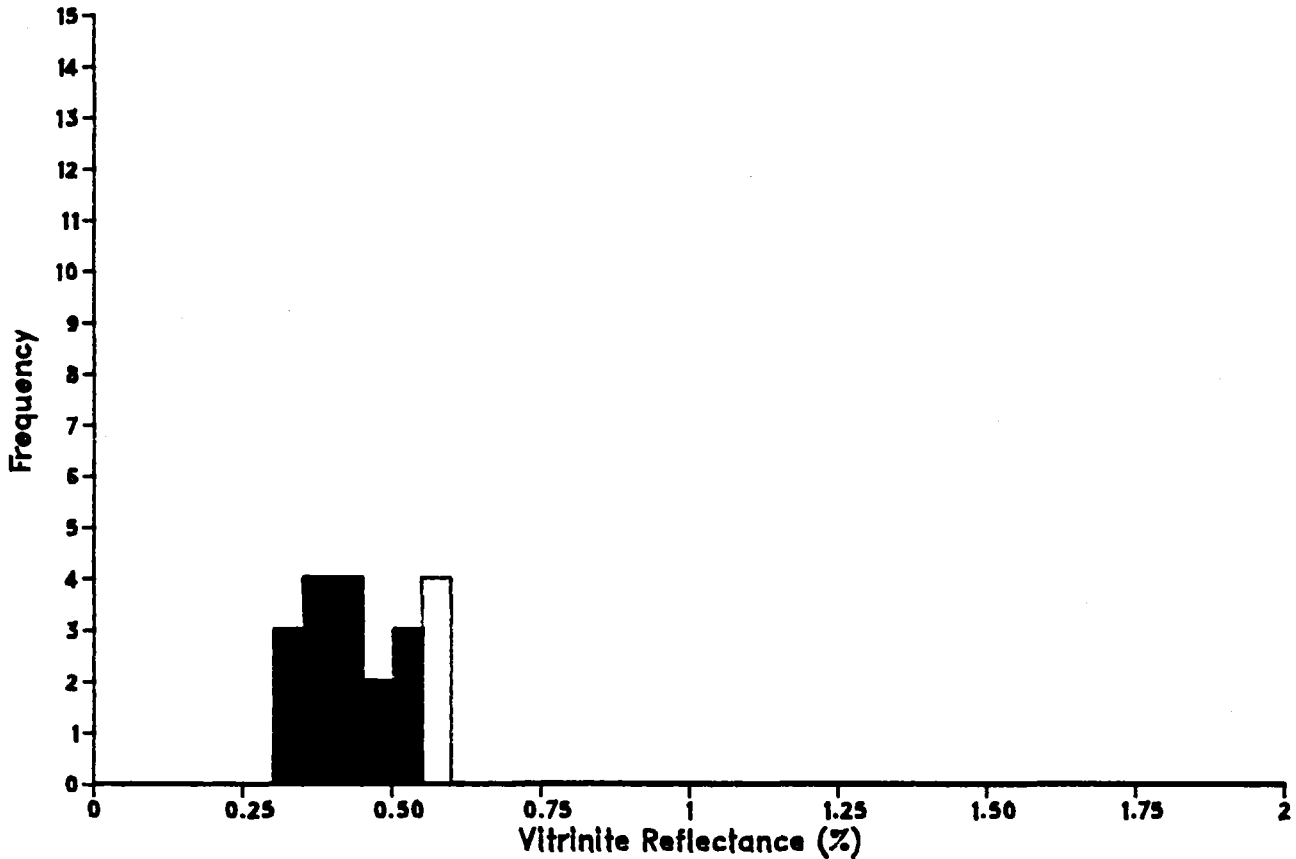


| Statistics: | Mean | St.Dev. | n |
|--|------|---------|----|
| Indigenous Population (from 0.350 to 0.500): | 0.39 | 0.04 | 10 |
| Population Two (from 0.500 to 0.550): | 0.54 | 0.02 | 2 |

| Readings: | | | | | | | | | |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.350 | 0.350 | 0.360 | 0.370 | 0.380 | 0.400 | 0.400 | 0.410 | 0.440 | 0.460 |
| 0.520 | 0.550 | | | | | | | | |

Vitrinite Reflectance Histogram

Well: NOCS 2/8-3
Depth: 2682.00(m)
Sample: 26-0b

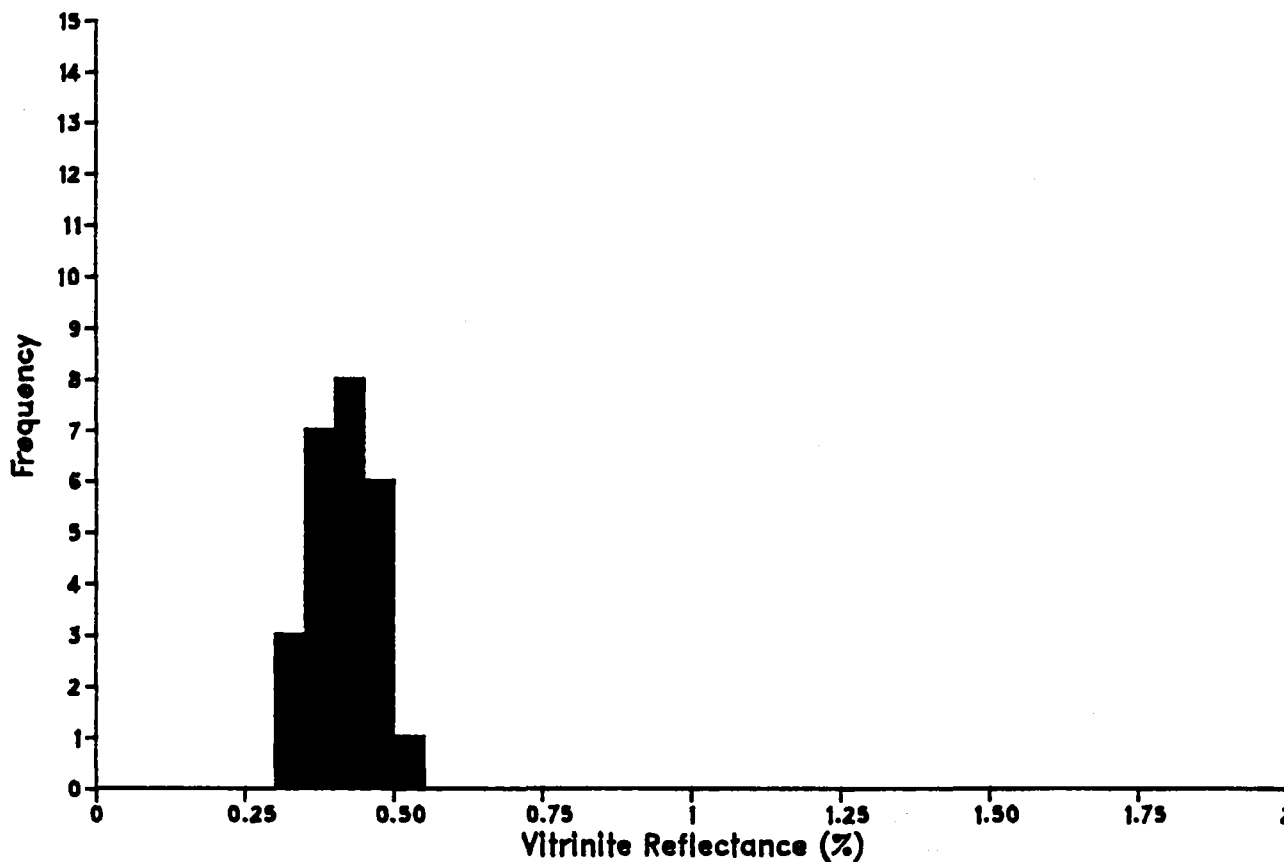


| Statistics: | Mean | St.Dev. | n |
|--|------|---------|----|
| Indigenous Population (from 0.300 to 0.550): | 0.41 | 0.08 | 16 |
| Population Two (from 0.550 to 0.600): | 0.56 | 0.00 | 4 |

| Readings: | | | | | | | | | |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.300 | 0.300 | 0.330 | 0.350 | 0.360 | 0.360 | 0.380 | 0.410 | 0.430 | 0.430 |
| 0.430 | 0.450 | 0.490 | 0.500 | 0.520 | 0.540 | 0.560 | 0.560 | 0.560 | 0.560 |

Vitrinite Reflectance Histogram

Well: NOCS 2/8-3
Depth: 2768.00(m)
Sample: 27-0b

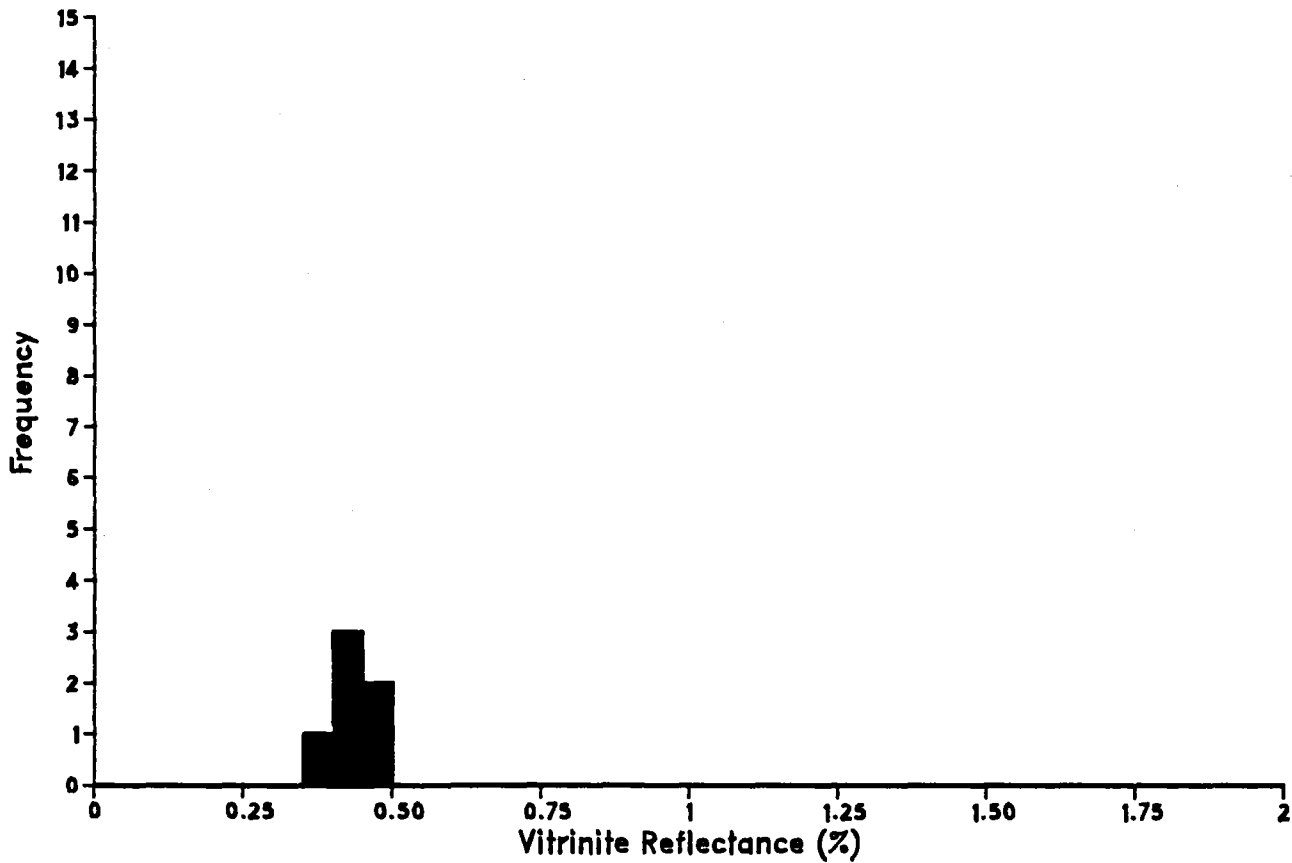


| Statistics: | Mean | St.Dev. | n |
|--|------|---------|----|
| Indigenous Population (from 0.300 to 0.550): | 0.41 | 0.06 | 25 |

| Readings: | | | | | | | | | |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.300 | 0.300 | 0.340 | 0.350 | 0.360 | 0.370 | 0.380 | 0.390 | 0.390 | 0.390 |
| 0.410 | 0.420 | 0.420 | 0.430 | 0.430 | 0.430 | 0.430 | 0.440 | 0.450 | 0.450 |
| 0.460 | 0.480 | 0.490 | 0.490 | 0.500 | | | | | |

Vitrinite Reflectance Histogram

Well: NOCS 2/8-3
Depth: 2963.00(m)
Sample: 29-0b

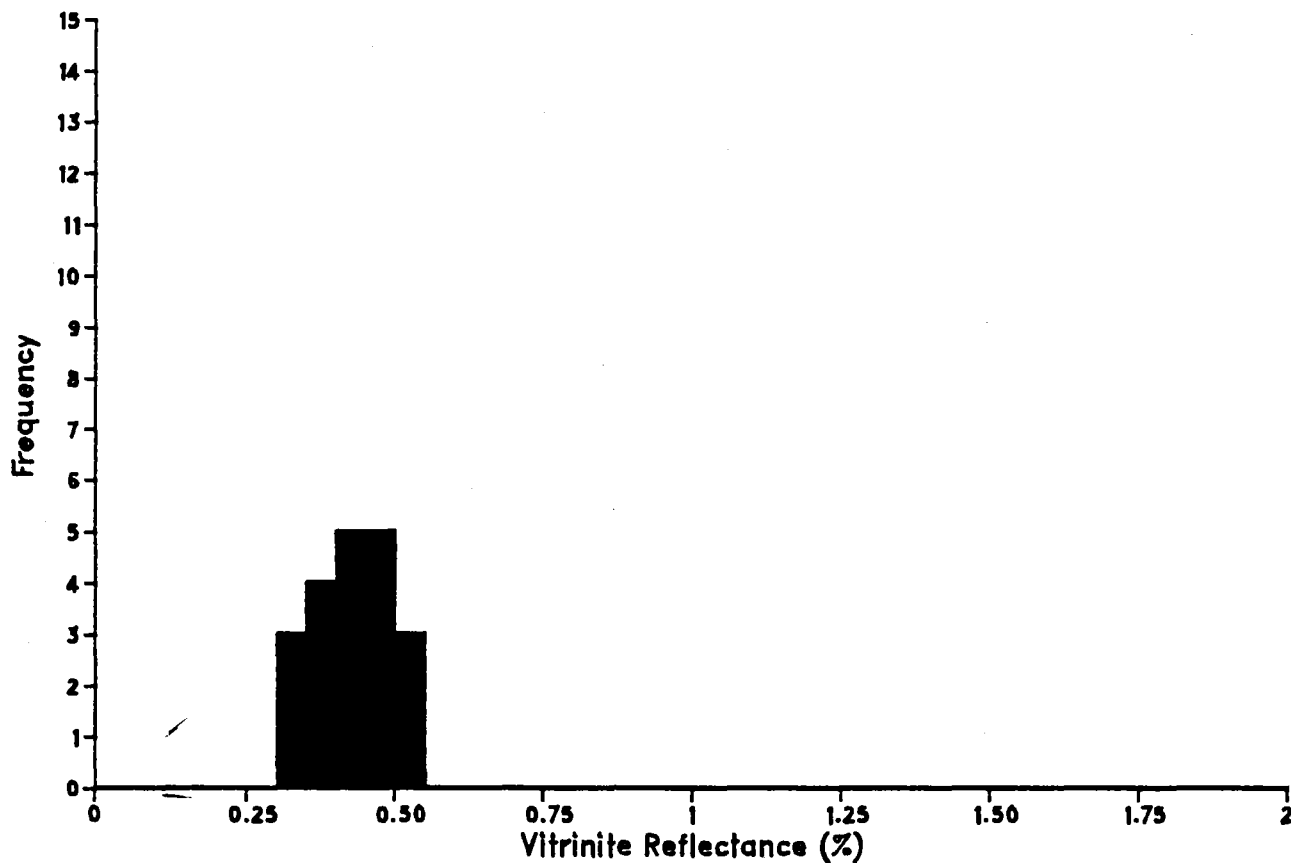


| Statistics: | Mean | St.Dev. | n |
|--|------|---------|---|
| Indigenous Population (from 0.350 to 0.500): | 0.43 | 0.04 | 6 |

| Readings: |
|-------------------------------------|
| 0.380 0.400 0.410 0.440 0.470 0.480 |

Vitrinite Reflectance Histogram

Well: NOCS 2/8-3
Depth: 3048.00(m)
Sample: 30-0b

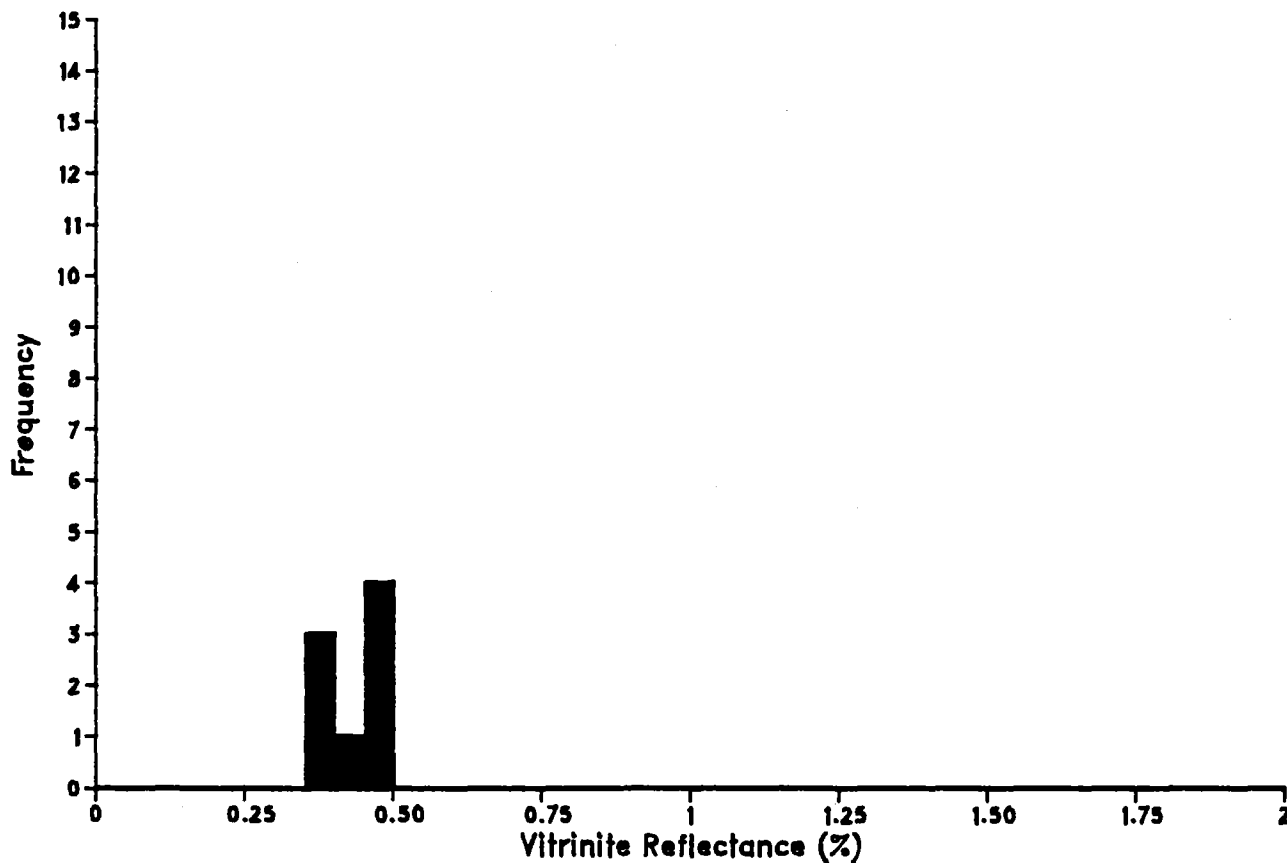


| Statistics: | Mean | St.Dev. | n |
|--|------|---------|----|
| Indigenous Population (from 0.300 to 0.550): | 0.42 | 0.06 | 20 |

| Readings: | | | | | | | | | |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.300 | 0.330 | 0.330 | 0.350 | 0.380 | 0.380 | 0.390 | 0.400 | 0.420 | 0.440 |
| 0.440 | 0.440 | 0.450 | 0.460 | 0.460 | 0.460 | 0.490 | 0.500 | 0.510 | 0.520 |

Vitrinite Reflectance Histogram

Well: NOCS 2/8-3
Depth: 3146.00(m)
Sample: 31-0b

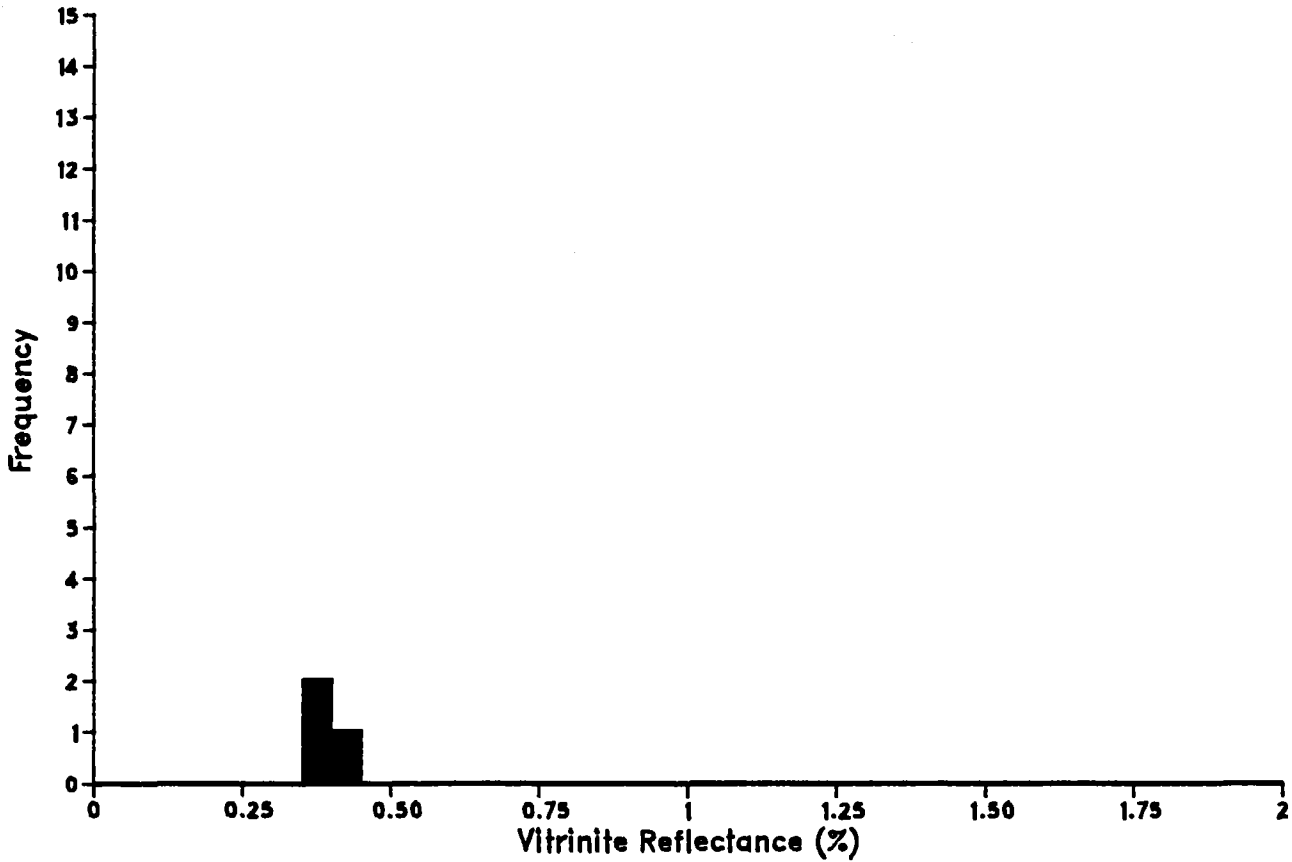


| Statistics: | Mean | St.Dev. | n |
|--|------|---------|---|
| Indigenous Population (from 0.350 to 0.500): | 0.43 | 0.05 | 8 |

| Readings: |
|---|
| 0.360 0.390 0.390 0.400 0.460 0.460 0.470 0.490 |

Vitrinite Reflectance Histogram

Well: NOCS 2/8-3
Depth: 3237.00(m)
Sample: 32-0b

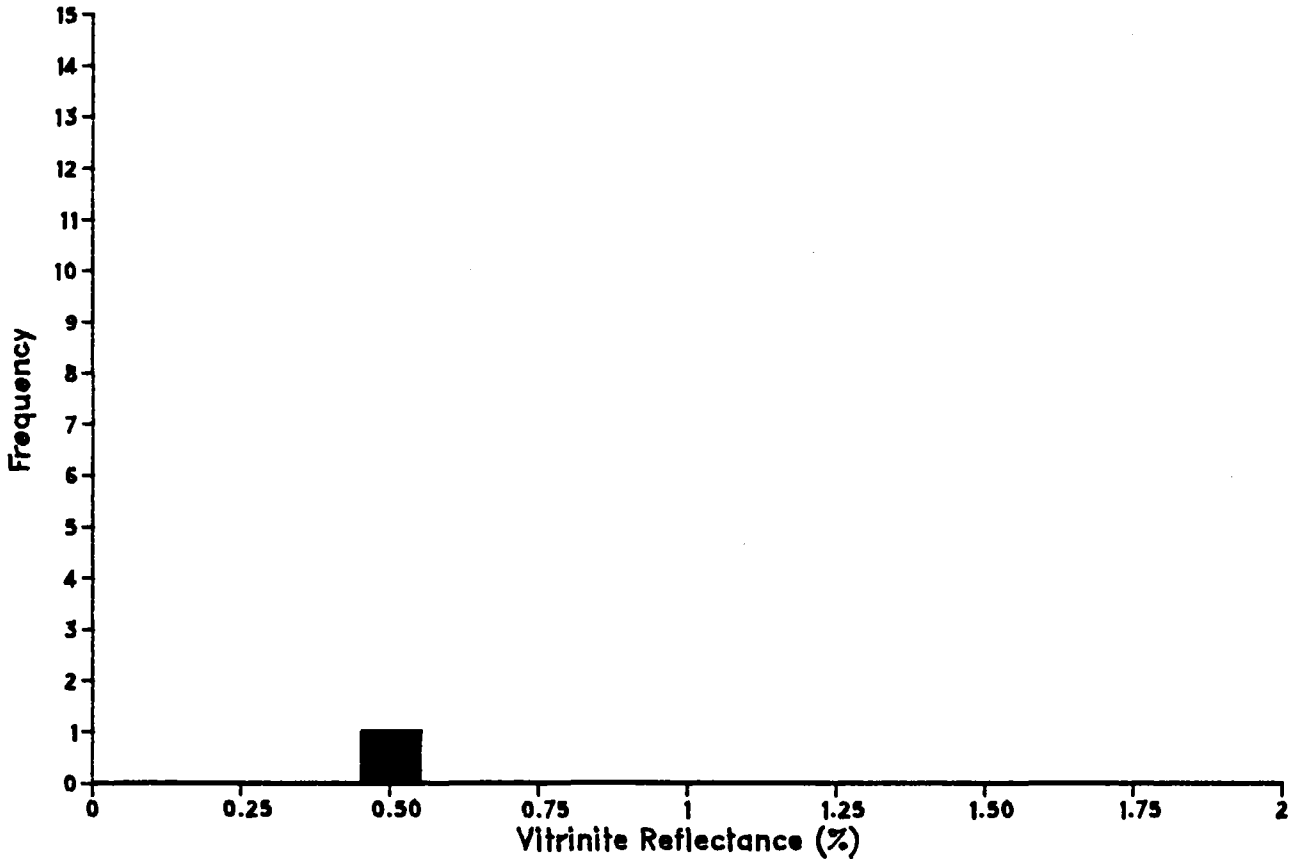


| Statistics: | Mean | St.Dev. | n |
|--|------|---------|---|
| Indigenous Population (from 0.350 to 0.450): | 0.39 | 0.01 | 3 |

| Readings: |
|-------------------|
| 0.380 0.390 0.400 |

Vitrinite Reflectance Histogram

Well: NOCS 2/8-3
Depth: 3328.00(m)
Sample: 33-0b

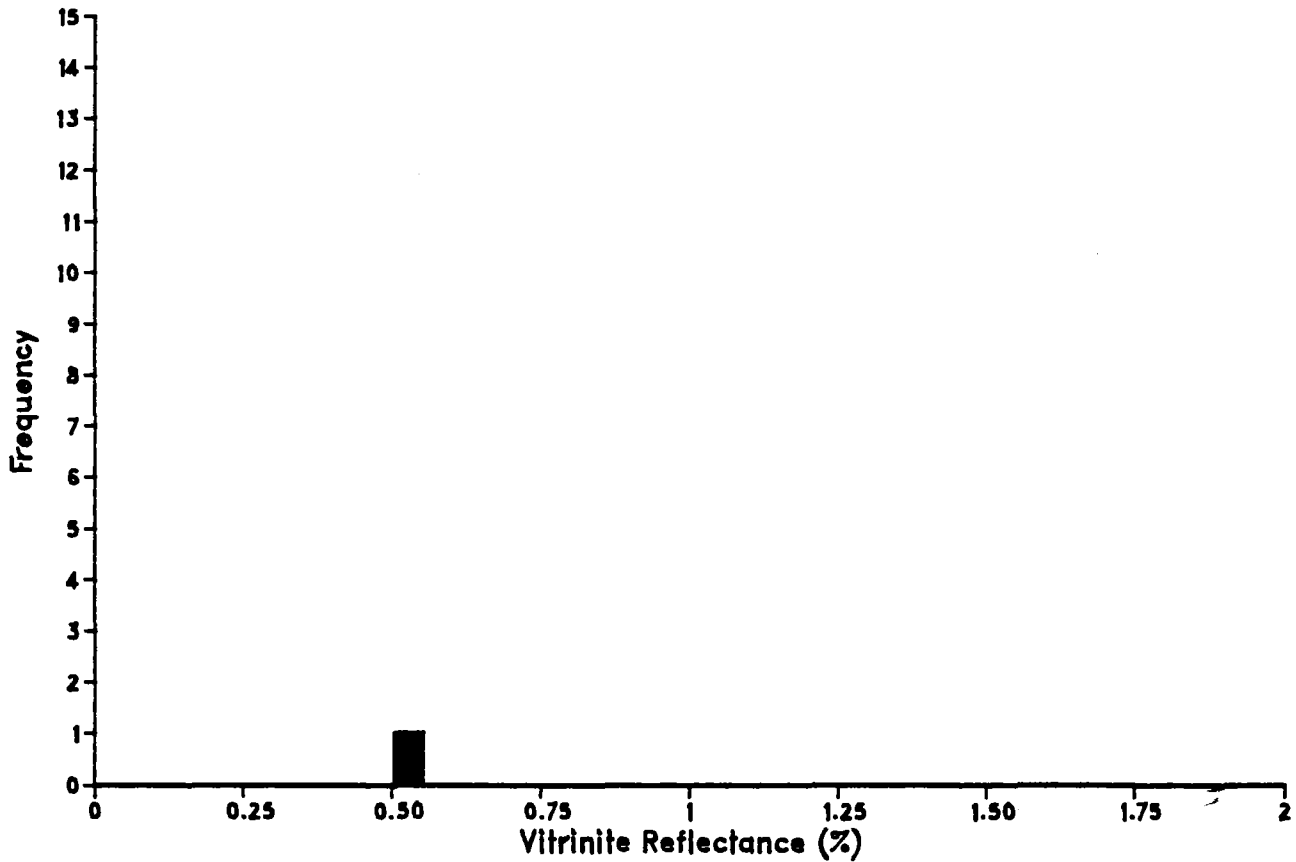


| Statistics: | Mean | St.Dev. | n |
|--|------|---------|---|
| Indigenous Population (from 0.450 to 0.550): | 0.49 | 0.04 | 2 |

| Readings: |
|-------------|
| 0.460 0.510 |

Vitrinite Reflectance Histogram

Well: NOCS 2/8-3
Depth: 3466.00(m)
Sample: 45-0b

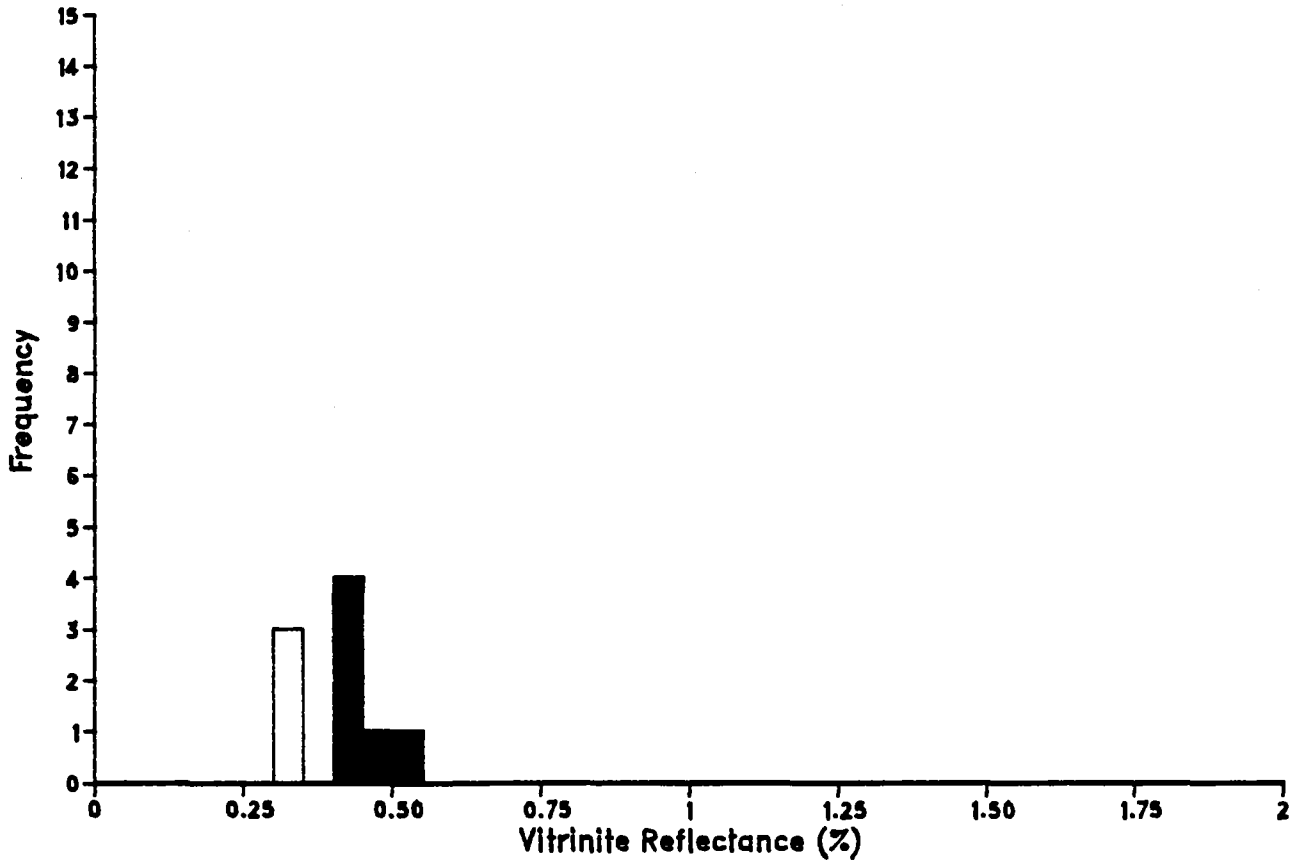


| Statistics: | Mean | St.Dev. | n |
|--|------|---------|---|
| Indigenous Population (from 0.500 to 0.550): | 0.52 | 0.00 | 1 |

| Readings: |
|-----------|
| 0.520 |

Vitrinite Reflectance Histogram

Well: NOCS 2/8-3
Depth: 3539.00(m)
Sample: 57-0b

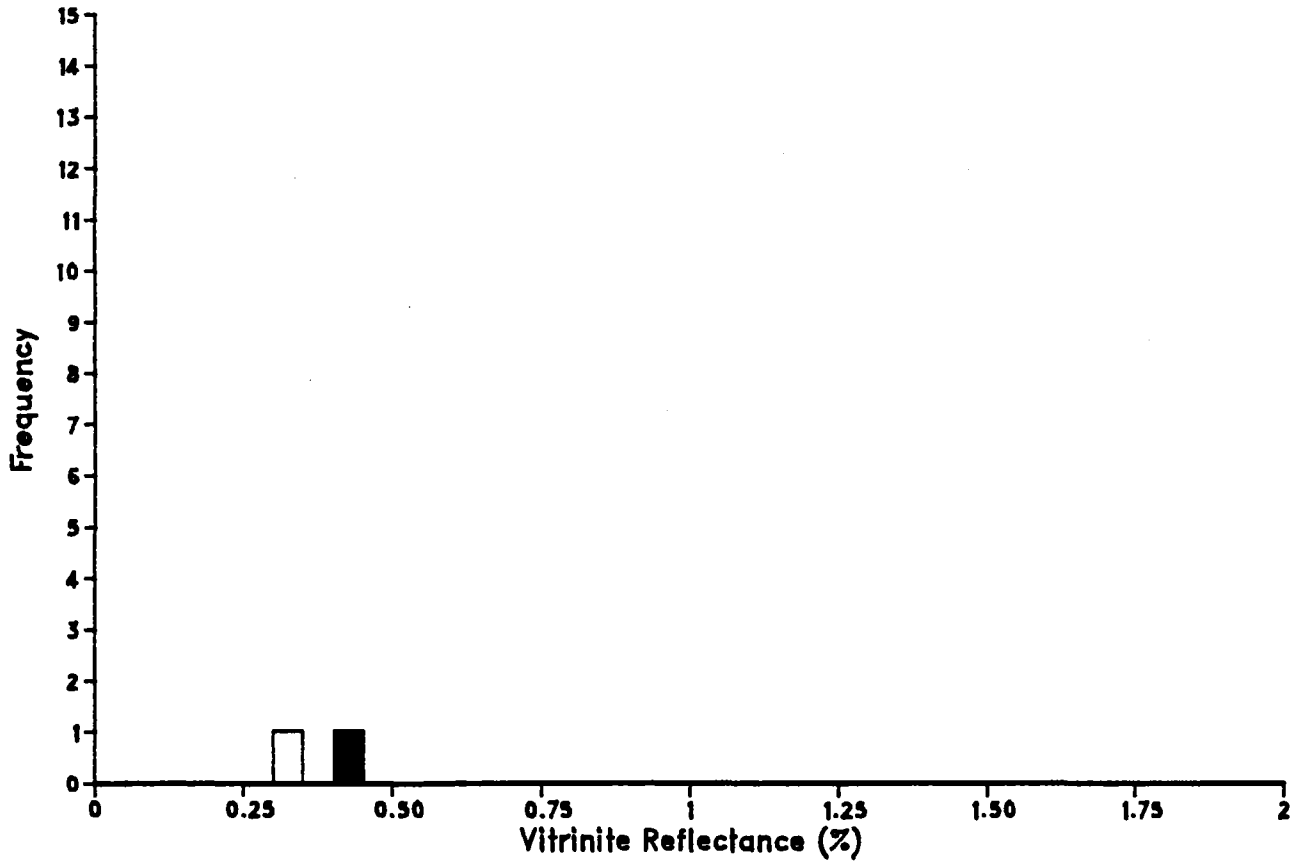


| Statistics: | Mean | St.Dev. | n |
|--|------|---------|---|
| Indigenous Population (from 0.400 to 0.550): | 0.45 | 0.05 | 6 |
| Population Two (from 0.300 to 0.350): | 0.34 | 0.00 | 3 |

| Readings: |
|---|
| 0.330 0.340 0.340 0.410 0.410 0.410 0.420 0.490 0.530 |

Vitrinite Reflectance Histogram

Well: NOCS 2/8-3
Depth: 3606.00(m)
Sample: 67-0b

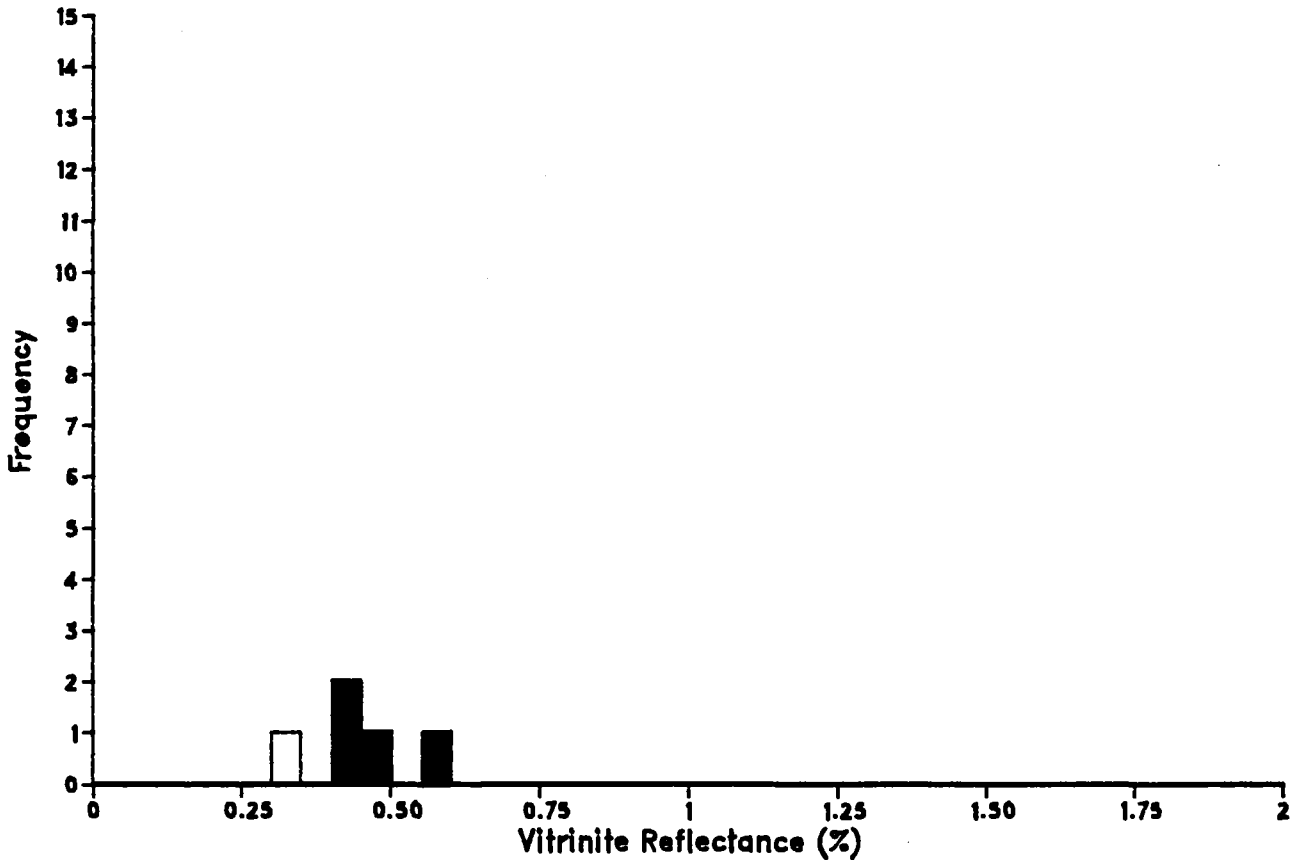


| Statistics: | Mean | St.Dev. | n |
|--|------|---------|---|
| Indigenous Population (from 0.400 to 0.450): | 0.41 | 0.00 | 1 |
| Population Two (from 0.300 to 0.350): | 0.34 | 0.00 | 1 |

| Readings: |
|-------------|
| 0.340 0.410 |

Vitrinite Reflectance Histogram

Well: NOCS 2/8-3
Depth: 3685.00(m)
Sample: 80-0b

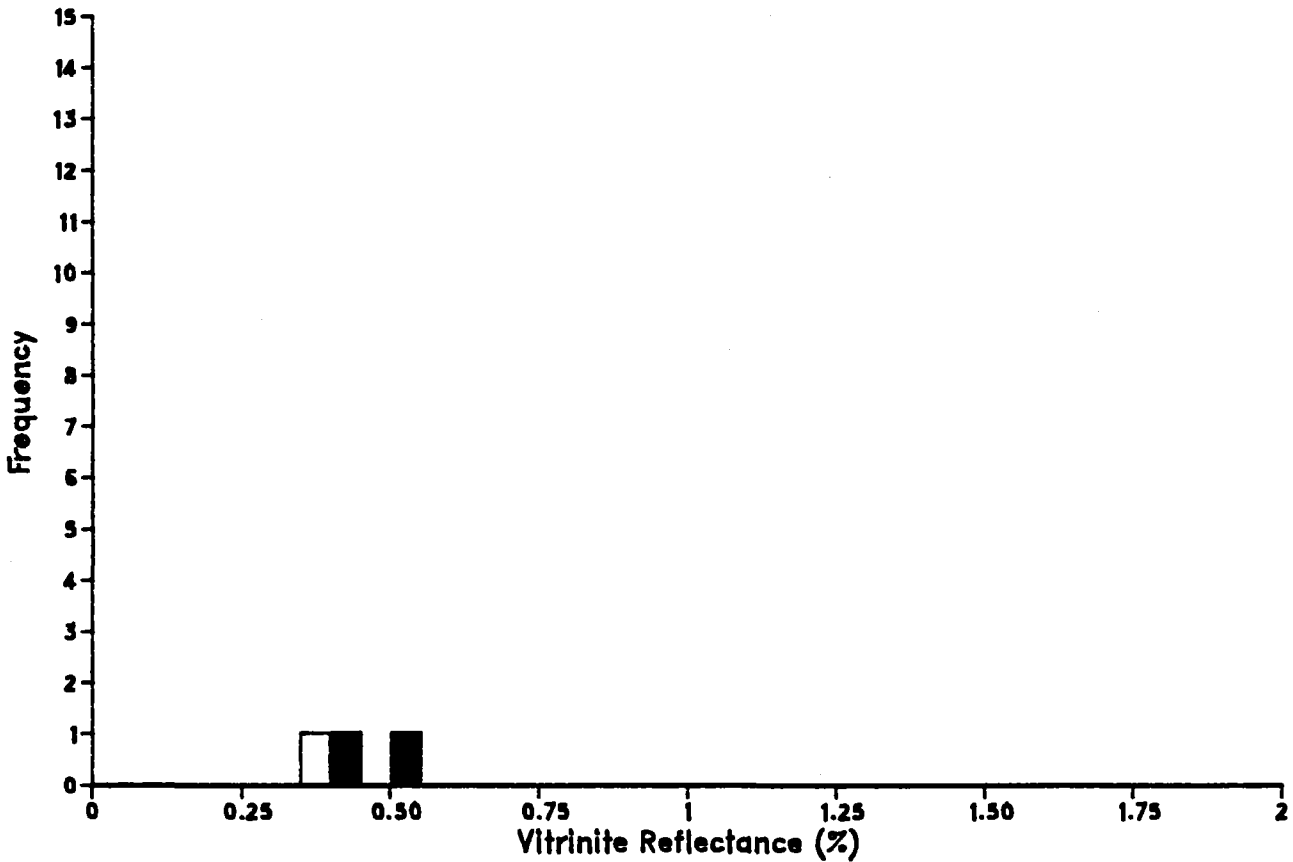


| Statistics: | Mean | St.Dev. | n |
|--|------|---------|---|
| Indigenous Population (from 0.400 to 0.600): | 0.47 | 0.07 | 4 |
| Population Two (from 0.300 to 0.350): | 0.34 | 0.00 | 1 |

| Readings: |
|-------------------------------|
| 0.340 0.410 0.410 0.480 0.560 |

Vitrinite Reflectance Histogram

Well: NOCS 2/8-3
Depth: 3776.00(m)
Sample: 95-0b

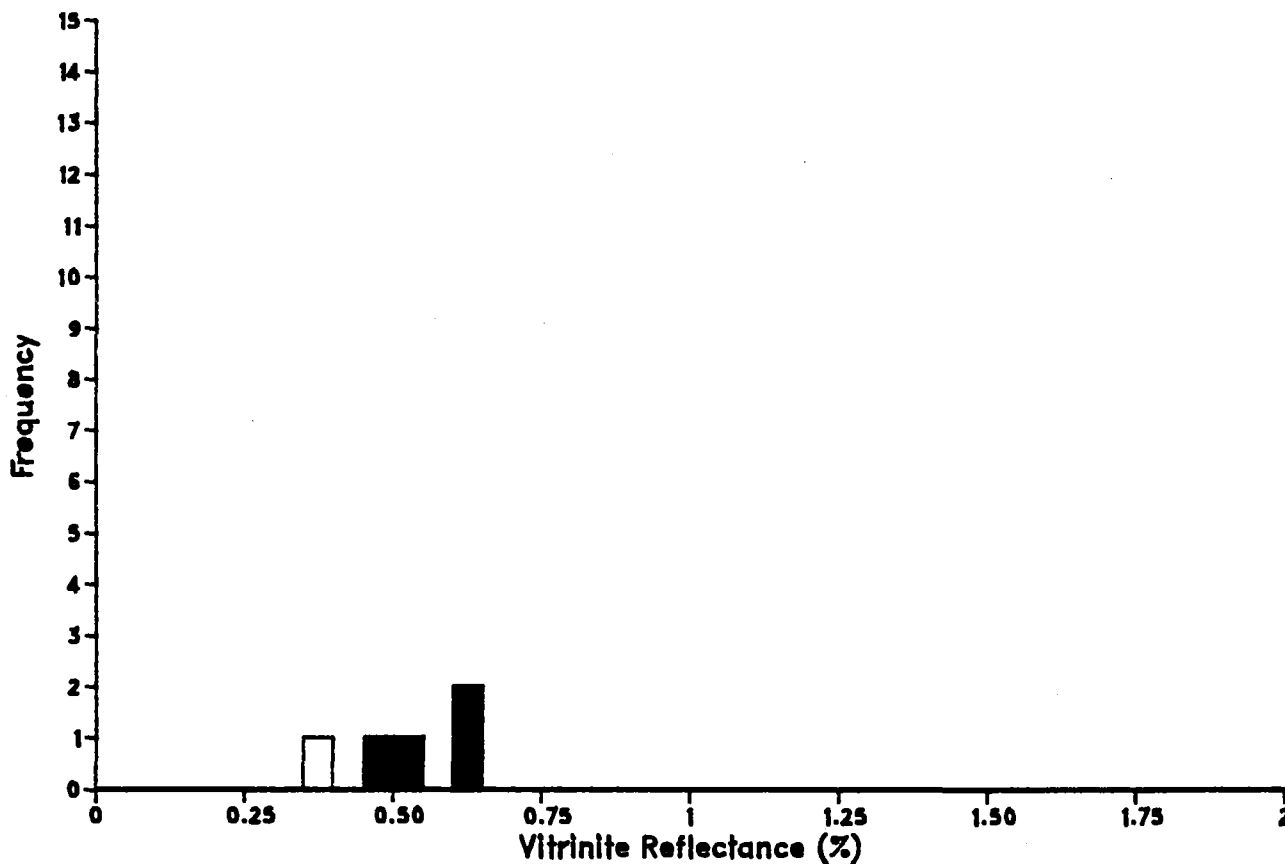


| Statistics: | Mean | St.Dev. | n |
|--|------|---------|---|
| Indigenous Population (from 0.400 to 0.500): | 0.47 | 0.05 | 2 |
| Population Two (from 0.350 to 0.399): | 0.36 | 0.00 | 1 |

| Readings: |
|-------------------|
| 0.360 0.430 0.500 |

Vitrinite Reflectance Histogram

Well: NOCS 2/8-3
Depth: 3856.00(m)
Sample: 106-0b



| Statistics: | Mean | St.Dev. | n |
|--|------|---------|---|
| Indigenous Population (from 0.450 to 0.650): | 0.56 | 0.07 | 4 |
| Population Two (from 0.350 to 0.400): | 0.39 | 0.00 | 1 |

Readings:

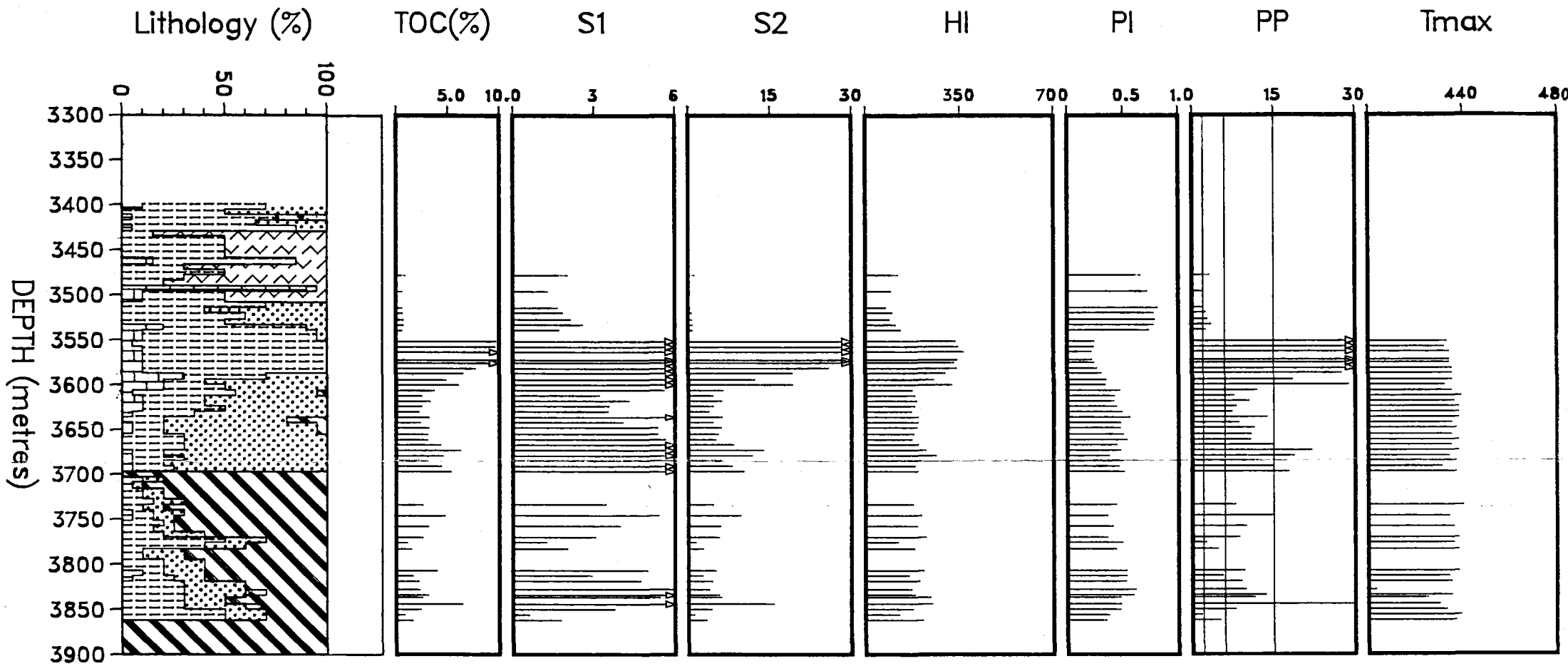
0.390 0.480 0.510 0.620 0.620

W25

Enclosure: 1

Client: VARIOUS

Rock-Eval Pyrolysis Data for Well NOCS 2/8-3

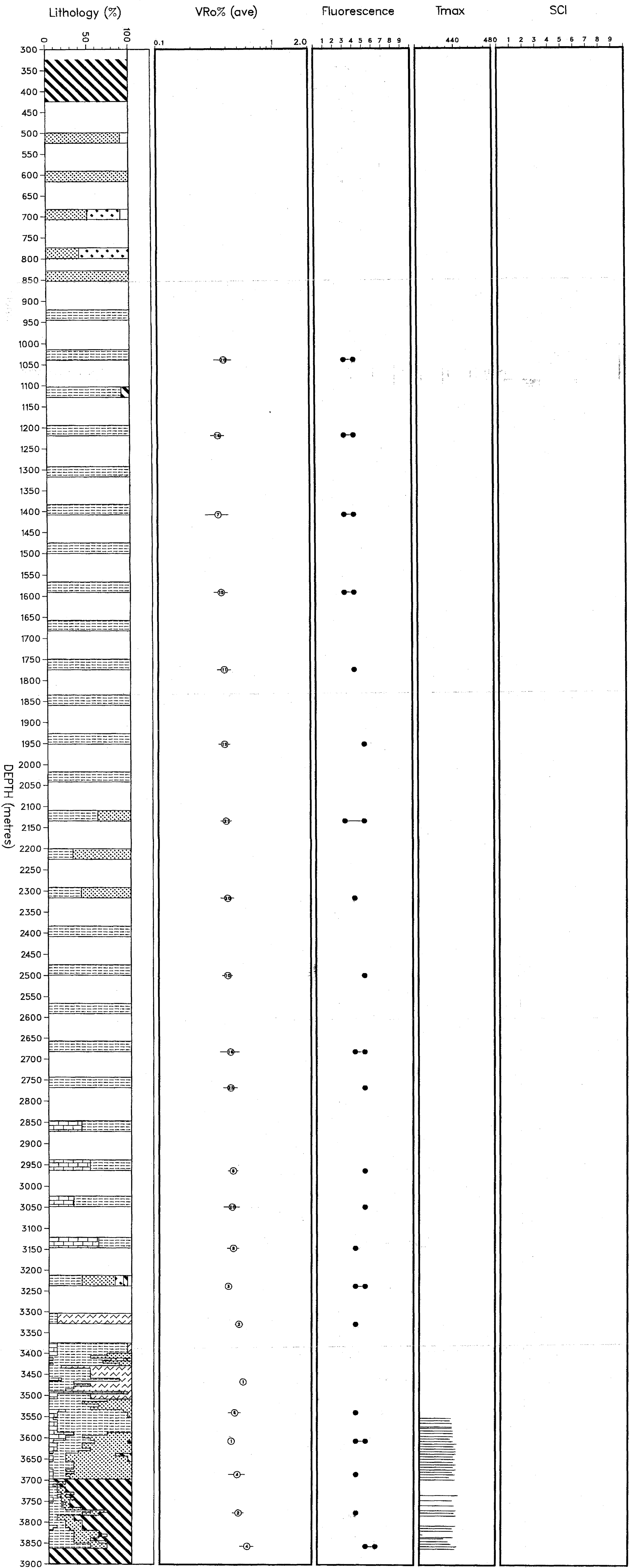


- Coal
- Carbonate
- Shale/Claystone
- Siltstone
- Sand/Sandstone
- Contamination
- Volcanics
- Tuff
- Marl
- Kaolin
- Chert
- Conglomerate

- ◀ SWC
- ◁ Core Chip or Core Plug

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Thermal Maturity Data for Well NOCS 2/8-3



- Coal
- Carbonate
- Shale/Claystone
- Siltstone
- Sand/Sandstone
- Contamination
- Volcanics
- Tuff
- Marl
- Kaolin
- Chert
- Conglomerate

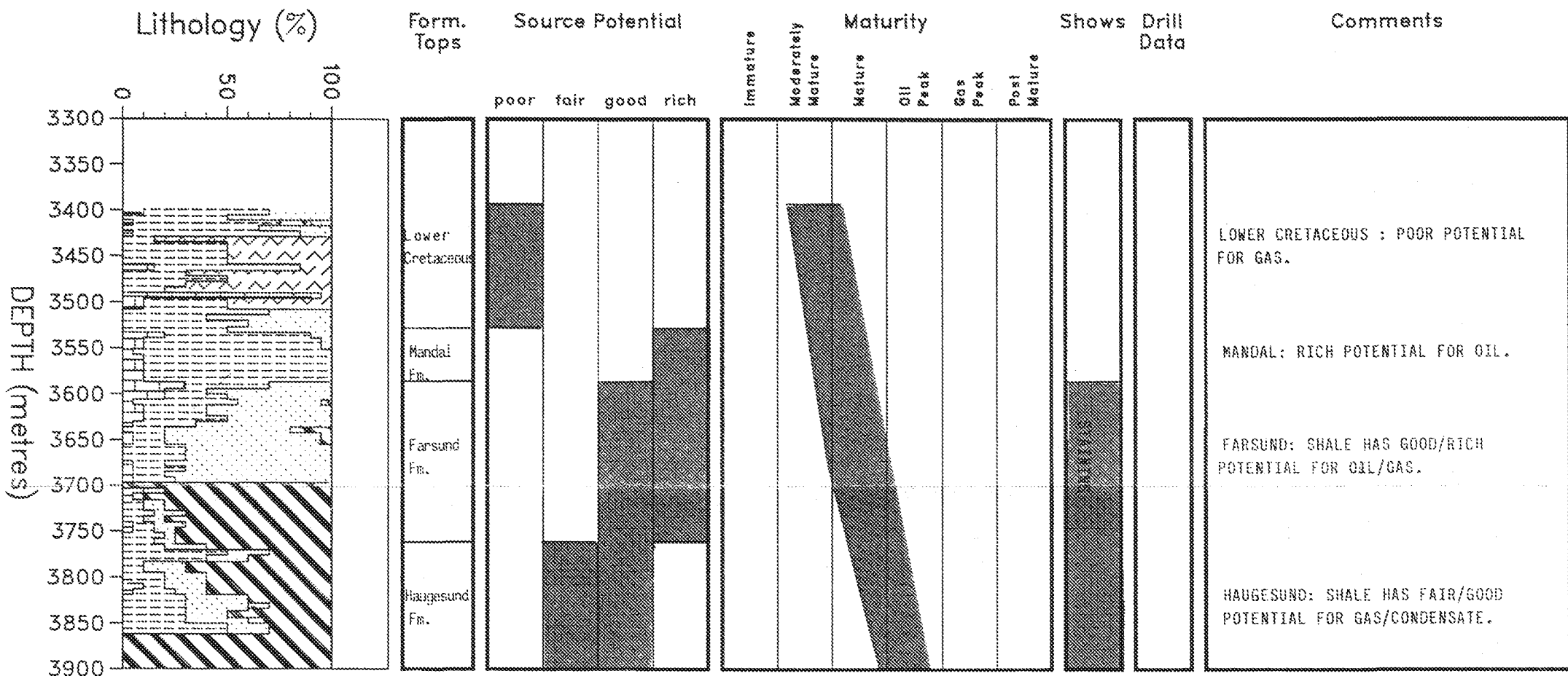
- ◀ SWC
- ◁ Core Chip or Core Plug
- ⊙ VRo%(ave) - centre of circle
- Number of Readings - n
- Standard Deviation - line

- 1 : Green
- 2 : Green/Yellow
- 3 : Yellow
- 4 : Yellow/Orange
- 5 : Light Orange
- 6 : Moderate Orange
- 7 : Dark Orange
- 8 : Orange/Red
- 9 : Red

Enclosure: 3

Client: VARIOUS

Summary Log for Well NOCS 2/8-3



- Coal
- Carbonate
- Shale/Claystone
- Siltstone
- Sand/Sandstone
- Contamination
- Volcanics
- Tuff
- Marl
- Kaolin
- Chert
- Conglomerate

- ▲ SWC
- ▽ Core Chip or Core Plug

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