

NEXUS 2006

WELL NAME **KK #** **Page(s)**

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NEXUS

CULVERIN-1

KK # Ref #.	Depth (m)		R _v max Mean	Range	SD	N	Sample description including liptinite fluorescence maceral abundances, mineral fluorescence
L0741 Ctgs	2940-2950 $\bar{R}_{I\max}$	0.52 1.25	0.44-0.62 0.94-1.88	0.053 0.264	25 10		Sparse sporinite and rare liptodetrinite yellow to dull orange, rare cutinite orange, rare resinite greenish yellow. (Siltstone>sandstone> claystone=carbonate. Dom common, I>V>L. Inertinite common, vitrinite and liptinite sparse. Mineral fluorescence weak orange. Iron oxides rare. Pyrite common.)
L0742 Ctgs	3175-3080 $\bar{R}_{I\max}$	0.48 1.41	0.40-0.54 1.06-2.04	0.042 0.293	25 10		Rare sporinite and liptodetrinite yellow to dull orange, rare cutinite orange. (Sandstone>siltstone>>coal>shaly coal. Coal rare, V, vitrite. Shaly coal rare, V>>L, vitrite. Dom common, V>I=L. Vitritine sparse, inertinite and liptinite rare to sparse. Mineral fluorescence weak orange. Iron oxides rare. Pyrite sparse.)
L0743 Ctgs	3370-3375 $\bar{R}_{I\max}$	0.51 1.29	0.41-0.60 0.90-1.92	0.048 0.300	25 10		Sparse sporinite and rare liptodetrinite yellow to dull orange, rare cutinite dull orange. (Sandstone>siltstone>shaly coal. Shaly coal rare, V>L, clarite. Dom common, I>V>L. Inertinite common, vitrinite sparse to common, liptinite sparse. Mineral fluorescence weak to moderate orange. Iron oxides rare. Pyrite common.)
L0744 Ctgs	3465-3470 $\bar{R}_{I\max}$	0.53 1.51	0.37-0.65 0.82-2.08	0.064 0.342	25 10		Sparse sporinite and rare liptodetrinite yellow to dull orange, rare to sparse cutinite orange to dull orange, rare resinite yellow. (Sandstone>siltstone>claystone>coal>shaly coal. Coal common, V>I>L, vitrite=duroclarite. Shaly coal rare, V>I>L, duroclarite. Dom common, V>I>L. Vitritine and inertinite common, liptinite sparse. Mineral fluorescence weak orange in fine grained sediments. Iron oxides rare. Pyrite sparse.)
L0745 Ctgs	3485-3490 $\bar{R}_{I\max}$	0.58 1.33	0.48-0.69 0.86-2.28	0.051 0.404	25 10		Sparse sporinite and rare liptodetrinite orange to dull orange, rare to sparse cutinite orange. (Siltstone>sandstone>shaly coal. Shaly coal rare, I>V>L, vitrinertite(I)=clarite. Dom common, V>I>L. Vitritine and inertinite common, liptinite sparse. Coalified leaf tissues present. Mineral fluorescence weak orange in fine grained sediments. Iron oxides rare. Pyrite sparse.)
L0746 Ctgs	3750-3755 $\bar{R}_{I\max}$	0.64 1.40	0.51-0.76 1.20-1.90	0.063 0.213	25 10		Sparse to common, sporinite and rare liptodetrinite orange to dull orange, rare cutinite orange, rare suberinite dull orange, rare resinite yellow. (Siltstone>sandstone>claystone>coal>carbonate=shaly coal. Coal abundant, V>I>L, Vitrite>clarite. Shaly coal common V>I>L, duroclarite. Dom common, V>L>I. Vitritine common, liptinite sparse to common, inertinite sparse. Rare to sparse oil drops, yellow in siltstone. Mineral fluorescence weak orange in fine grained sediments. Iron oxides rare. Pyrite sparse.)

The upper part of the section sampled is close to the top of the oil window, which probably occurs at about 3350m. The deeper section sampled is mid-mature for oil generation.

Organic matter is common in all of the samples. Coal and shaly coal are more common in the deepest two samples but even there represent less than 5% of each sample. The total amount of dom is relatively constant through the section. The main variations in organic matter content are due to increasing abundance of coal down-section.

Small amounts of oil drops are present in the deepest sample.

ACC 26 February 2006



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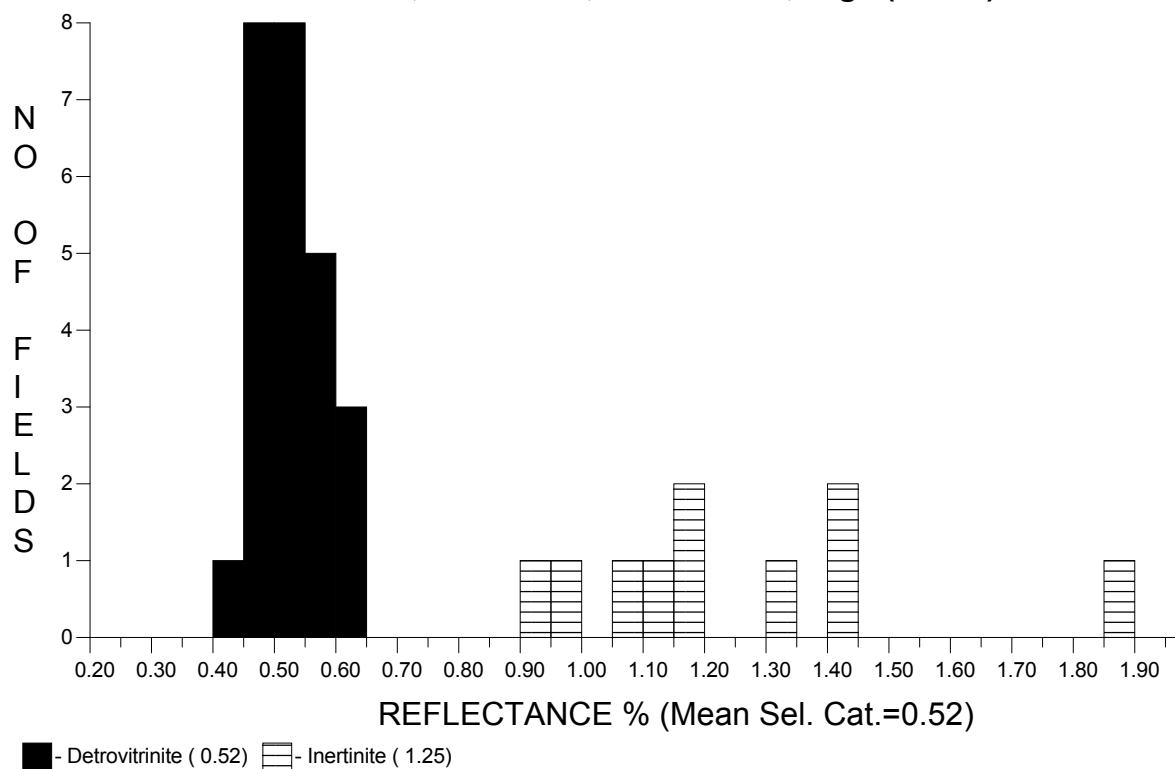
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Nexus, Culverin-1, 2940-2950m, Ctgs (L0741)



<u>Category</u>	<u>No. of Readings</u>	<u>Mean</u>	<u>Standard Deviation</u>
Detrovitrinite	25	0.52	0.053
Inertinite	10	1.25	0.264
<u>Total:</u>	35	0.73	0.360

Selected categories: Detrovitrinite,

No. of readings: 25

Mean of selected categories: 0.52

Standard deviation of selected categories: 0.053



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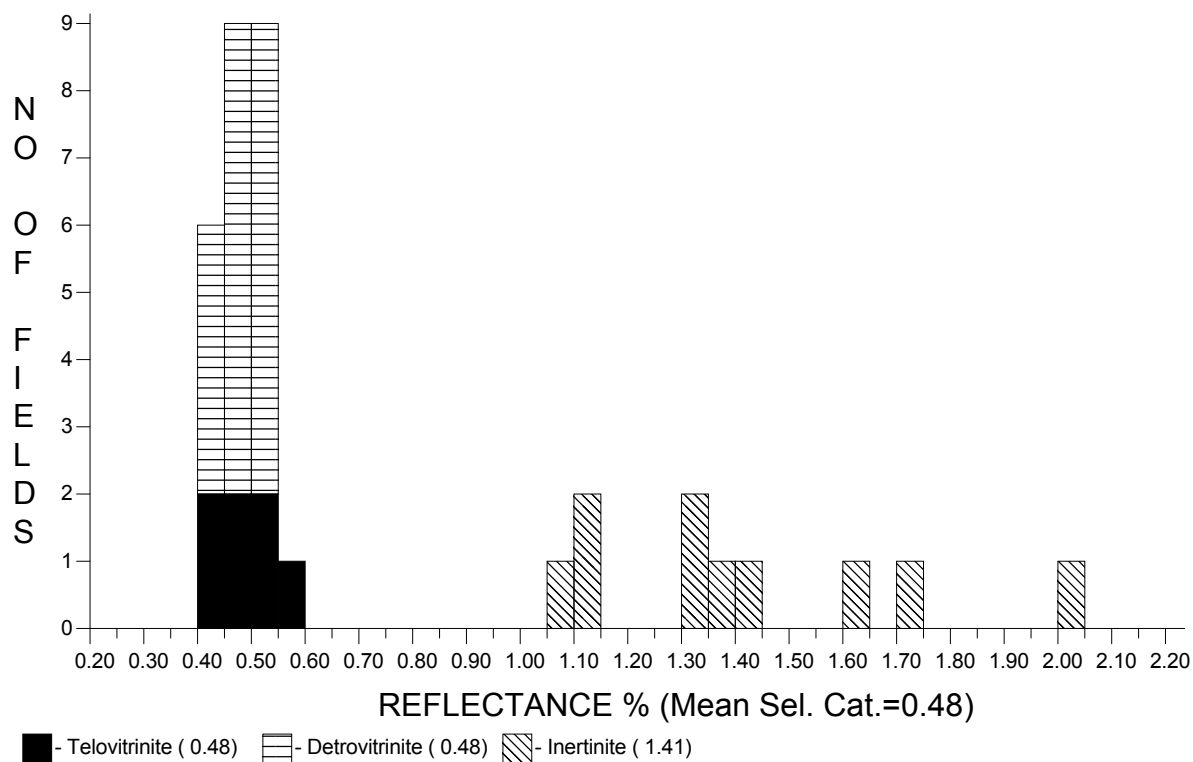
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Nexus, Culverin-1, 3175-3180m, Ctgs (L0742)



<u>Category</u>	<u>No. of Readings</u>	<u>Mean</u>	<u>Standard Deviation</u>
Telovitrinite	7	0.48	0.044
Detrovitrinite	18	0.48	0.041
Inertinite	10	1.41	0.293
<u>Total:</u>	35	0.75	0.449

Selected categories: Telovitrinite, Detrovitrinite,

No. of readings:	25
Mean of selected categories:	0.48
Standard deviation of selected categories:	0.042



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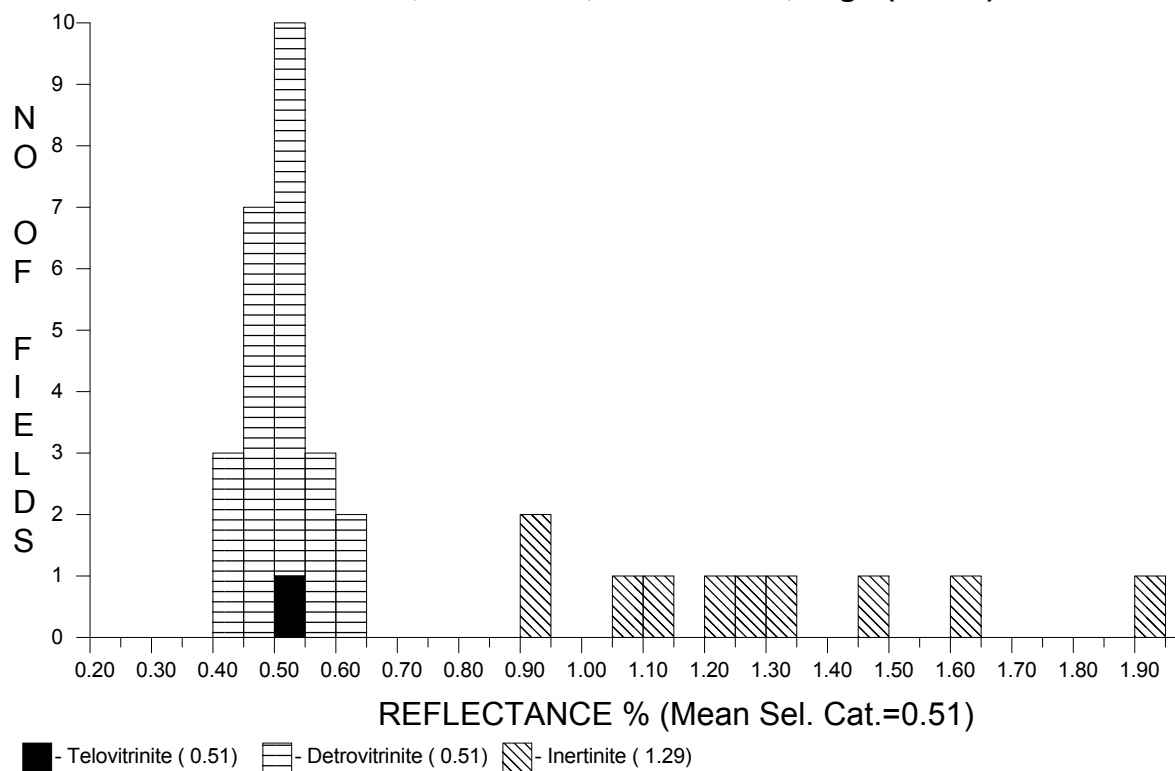
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Nexus, Culverin-1, 3370-3375m, Ctgs (L0743)



<u>Category</u>	<u>No. of Readings</u>	<u>Mean</u>	<u>Standard Deviation</u>
Telovitrinite	1	0.51	0.000
Detrovitrinite	24	0.51	0.049
Inertinite	10	1.29	0.300
<u>Total:</u>	35	0.73	0.391

Selected categories: Telovitrinite, Detrovitrinite,

No. of readings:	25
Mean of selected categories:	0.51
Standard deviation of selected categories:	0.048



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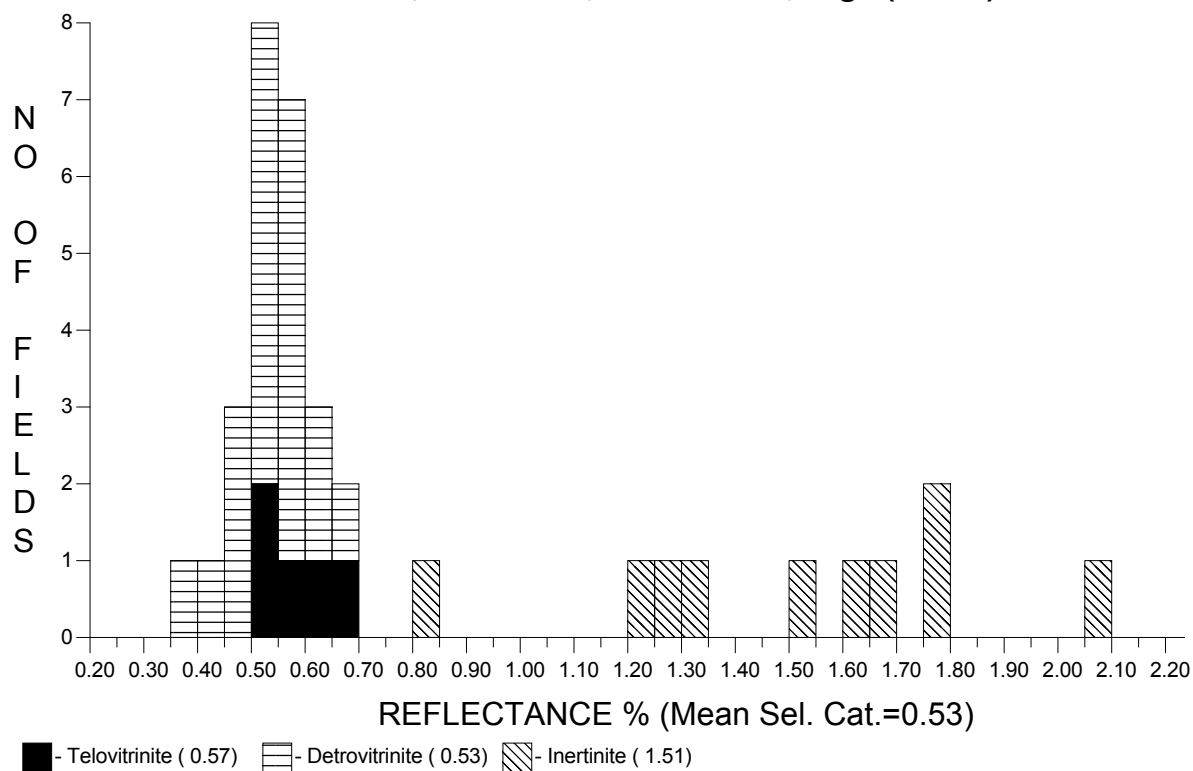
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Nexus, Culverin-1, 3465-3470m, Ctgs (L0744)



<u>Category</u>	<u>No. of Readings</u>	<u>Mean</u>	<u>Standard Deviation</u>
Telovitrinite	5	0.57	0.052
Detrovitrinite	20	0.53	0.064
Inertinite	10	1.51	0.342
<u>Total:</u>	35	0.81	0.479

Selected categories: Telovitrinite, Detrovitrinite,

No. of readings:	25
Mean of selected categories:	0.53
Standard deviation of selected categories:	0.064



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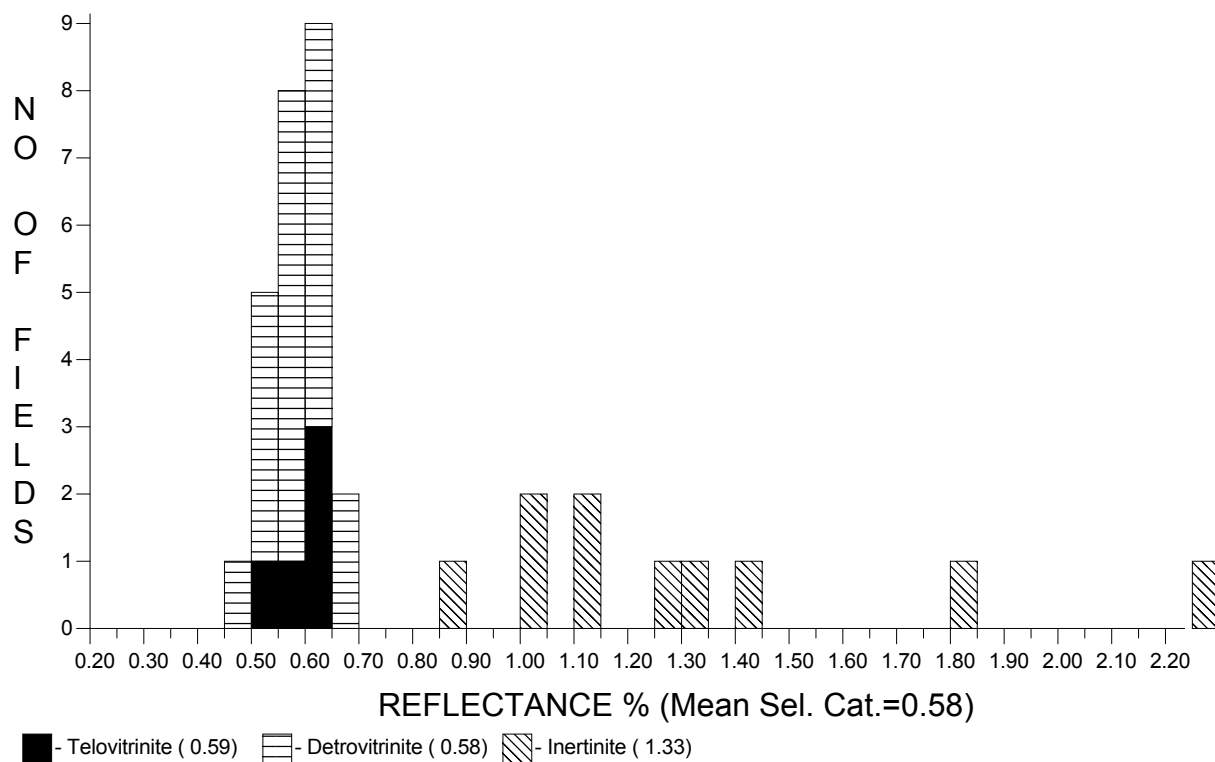
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Nexus, Culverin-1, 3485-3490m, Ctgs (L0745)



<u>Category</u>	<u>No. of Readings</u>	<u>Mean</u>	<u>Standard Deviation</u>
Telovitrinite	5	0.59	0.031
Detrovitrinite	20	0.58	0.055
Inertinite	10	1.33	0.404
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<u>Total:</u>	35	0.79	0.402

Selected categories: Telovitrinite, Detrovitrinite,

No. of readings: 25

Mean of selected categories: 0.58

Standard deviation of selected categories: 0.051



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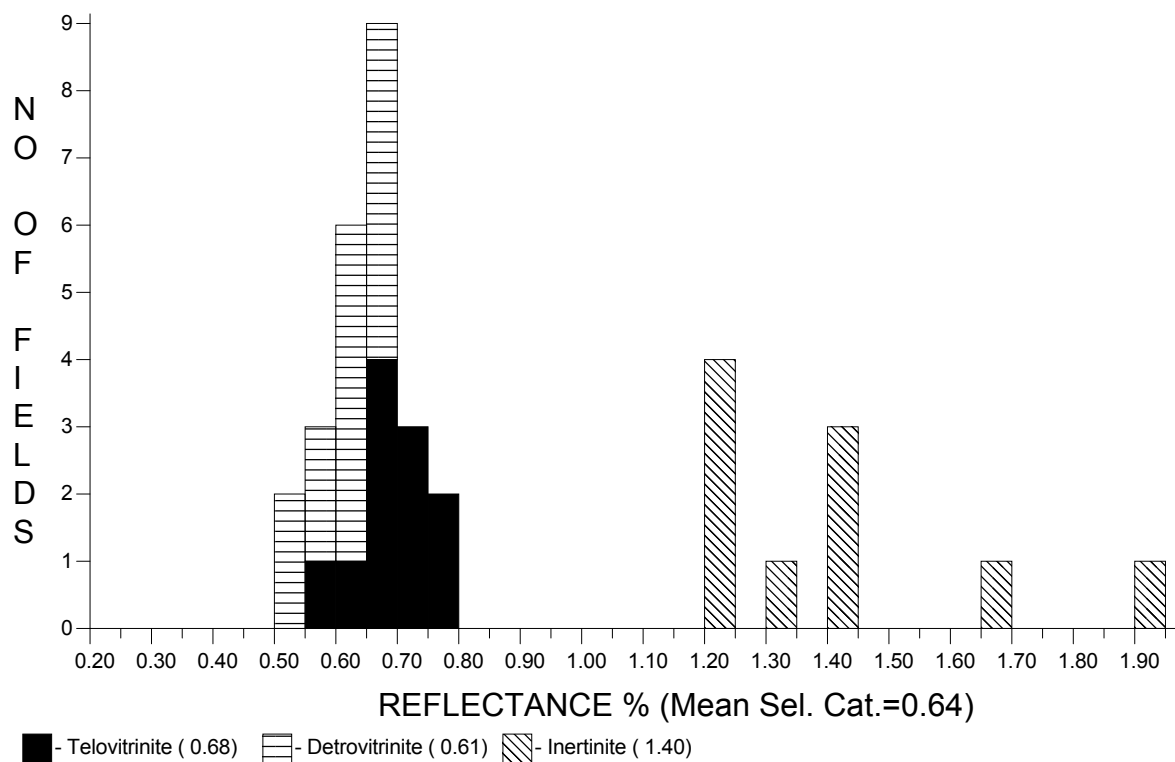
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Nexus, Culverine-1, 3750-3755m, Ctgs (L0746)



<u>Category</u>	<u>No. of Readings</u>	<u>Mean</u>	<u>Standard Deviation</u>
Telovitrinite	11	0.68	0.053
Detrovitrinite	14	0.61	0.051
Inertinite	10	1.40	0.213
<u>Total:</u>	35	0.86	0.366

Selected categories: Telovitrinite, Detrovitrinite,

No. of readings:	25
Mean of selected categories:	0.64
Standard deviation of selected categories:	0.063