Report No. EPGS-DOM.10-85MPA

Vitrinite reflectance (Ro) of dispersed organics in Mobil-Gulf Dominion O-23.

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G.S.C. Locality No: D139

Location: 47°22'49.14"N, 48°18'27.90"W

R.T. Elevation: 98'

Sample Interval: 1230 - 13116'

Total Depth: 13116'

Water Depth: 530'

Release Date: October 21,1976

Interval Studied: 1830 - 11520'

Depth Units: Feet referenced to R.T.

Vitrinite Reflectance has been determined on 17 (21 attempted) samples (Table II) from Mobil-Gulf Dominion O-23, which was classified as a wildcat well and is located on the Grand Banks, approximately 322km (200mi) east of St.John's, Newfoundland.

Data acquisition and manipulation for this report utilized the Zeiss Photomultiplier III Zonax microcomputer system with improvements in software to provide a dynamic histogram display as readings are acquired. Sample preparation followed the procedures listed in Appendix I. The analysis of the well revealed the thermal maturation intervals given in Table I. Specific maturation levels as set out in this report were based on those of Dow (1977,Appendix II) with modified terminology.

Table I
Inferred Thermal Maturation Levels

Determined			
Above 6057'	0.21 - 0.4	% Ro	immature
6057 - 8099'	0.4 - 0.5	% Ro	immature approaching maturity
8099 - 9768'	0.5 - 0.6	% Ro	marginally mature
9768'	0.6	% Ro	onset of significant oil generation
Projected			
12401'	0.8	% Ro	peak of oil generation
13116'(T.D.)	0.86	% Ro	within oil window
14444'	1.0	% Ro	onset of significant wet gas generation
16112'	1.2	% Ro	onset of significant dry gas generation
17190'	1.35	% Ro	oil floor

Remarks

The sample coverage of vitrinite reflectance data (Figure 1,Table II) was adequate over most of the well except for the important last 1600'. The line through the data points represents the best fit established by the least squares method.

Within the upper section of the well 4 samples had such poorly preserved vitrinite particles that the reflectance values they produced were considered unreliable and they were therefore excluded from the dataset.

This profile is the second determination of vitrinite reflectance on this set of samples (Ervine, 1984, Figure 2). This study results in significant changes in the profile in the upper and lower section of the well. A single best fit line has now been interpreted for the well. The upper section now intersects the 0.21 Ro value at surface which is more consistant with normal well profiles (Dow, 1977). The lowest section has been interpreted as having major cavings influence, although caliper logs were not available below 9789'. For example the deepest available sample was dominated by a large population (0.6 Ro) while the second largest population (0.74 Ro) was considered to be the primary reflectance population. In general, the mid section of the profile yielded similar results compared to the previous study.

There are insufficient vitrinite reflectance measurements above and below the Avalon Unconformity (10,410 ft.R.T.), to indicate how much section might have been eroded.

An organic geochemistry study of the well (Rashid, 1975) states that the sedimentary section below 8000' shows a high degree of maturation in gaseous hydrocarbons but that the $C_{15}+$ study does not provide support for this conclusion. The report also states that the organic matter is mostly derived from terrestrial source and would require greater maturation to form oil and gas.

In an earlier study, (Bujak,1976) TAI values have been reported as 2- (0.44 Ro equivalent) at T.D.

These maturation data provide evidence indicating that the thermal regime at Dominion O-23 was suitable for the generation of oil within the drilled section.

References

Bujak, J.P., 1976. Kerogen Type and Thermal Alteration Index of Mobil Gulf Dominion O-23, Grand Banks. Report No. EPGS-DOM.29-76JPB.

Dow, W.G., 1977. Kerogen studies and geological interpretations. Journal of Geochemical Exploration, no. 7, p. 79-99.

Ervine, W.B., 1984. Vitrinite Reflectance (Ro) on the dispersed organics in the Mobil Gulf Dominion O-23 well. Report no. EPGS-DOM.23-84WBE.

Rashid, M.A., 1975. Geochemical history of organic matter associated with subsurface sedimentary strata of Mobil-Gulf Dominion O-23, northern Grand Banks. Atlantic Geoscience Centre (GSC) Internal Report.

Wade, J.A., 1977. Stratigraphic picks Mobil Gulf Dominion O-23. Report No. EPGS-STRAT.33-77JAW, 1p. (revised in 1980).

July 23, 1985

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Table II

Summary of kerogen - based vitrinite reflectance

Seq. #	Sample #	Depth in feet	Mean Ro (SD) non-rotated	Number of Total readings	Edited
1	KO308A	1830-1860	.24(±.04)	32	17
2	KO308B	2100-2130	.26(±.05)	29	22
3	KO308C	2850-2880	.27(±.05)	30	17
4	KO309B	3480-3510	.33(±.05)	54	36
5	KO310A	4470-4500	.32(±.05)	33	24
6	KO310C	6360-6390	.44(±.07)	39	25
7	KO311B	7270-7300	.46(±.06)	65	40
8	KO311C	7670-7700	.46(±.05)	28	20
9	KO312A	7970-8000	.55(±.08)	75	47
10	KO312B	8270-8300	.54(±.06)	38	28
11	KO312C	8570-8600	.53(±.04)	39	22
12	KO313A	8970-9000	.57(±.05)	42	31
13	KO313B	9370-9400	.58(±.05)	34	21
14	KO313C	9770-9800	.59(±.06)	33	29
15	KO314A	10070-10100	.6 (±.05)	43	29
16	KO314B	10380-10410	.57(±.04)	54	41
17	KO314C	11490-11520	.74(±.05)	99	22

Note: All samples are Kerogen Type.

Table III
Formation Tops (Wade '77)

Depth	Formation
in casing	Banquereau
10278-10410'	Paleocene Chalk
10410'	Avalon UNCONFORMITY
10410'	Verrill Canyon
13116'	T.D.

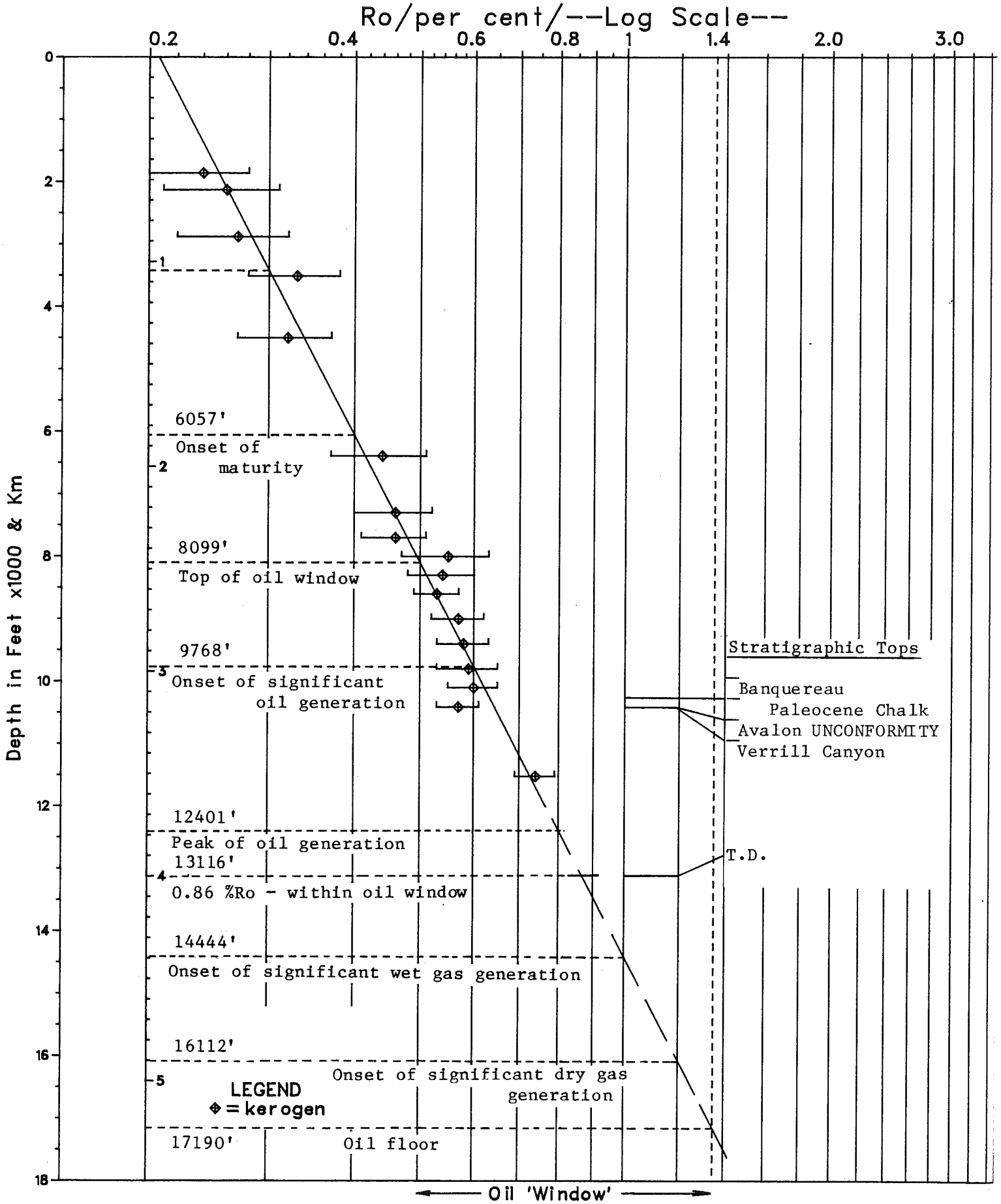
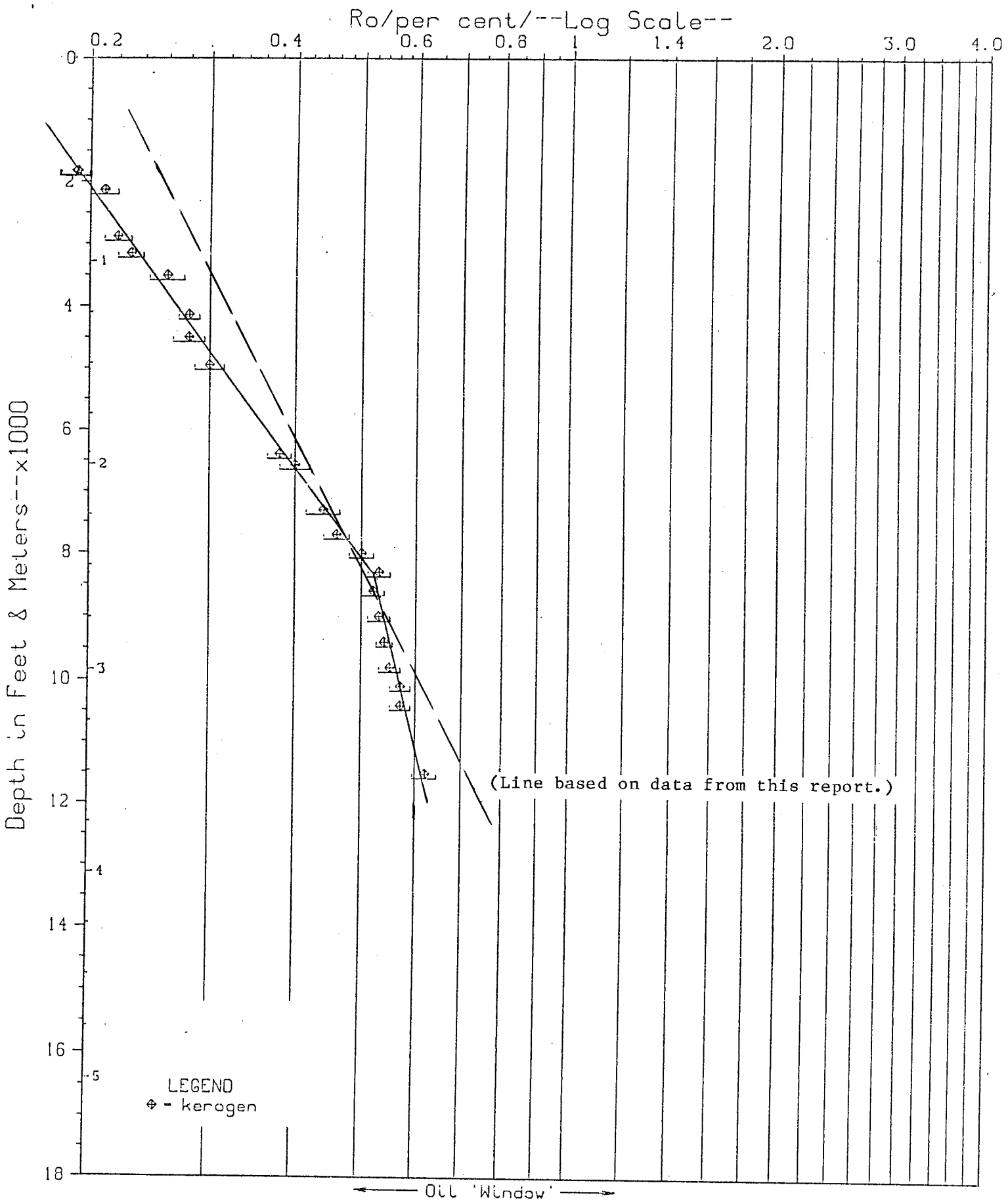


Fig. 1 Dominion O-23



Dominion O-23

FIGURE 2 (Ervine 1984)

APPENDIX I

Sample Preparation Method

COGLA Lab preparation

Preliminary Wash
Samples dried in oven
Split: a. all of coarse to Petrology Lab
b. ½ medium to Palynology Lab
c. rest of medium and all of fine combined for Micropaleo Lab
Split "b" is delivered to Palynology Lab and treated as follows:

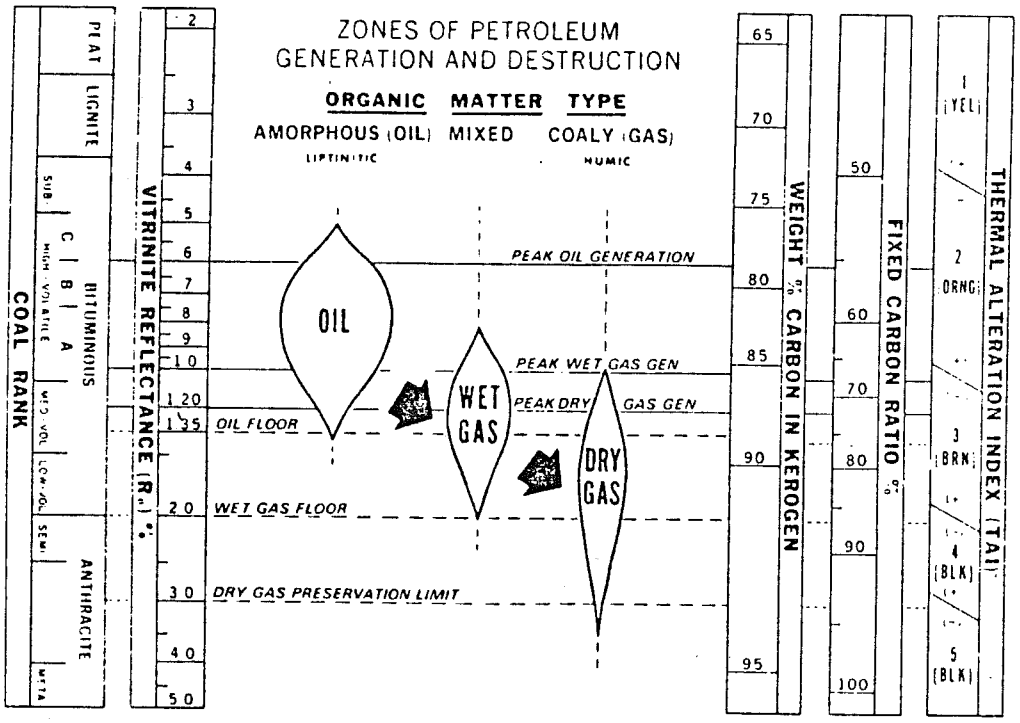
PALYNOLOGY Lab preparation

20-30 grams placed in 250ml plastic beaker.
Add 10% HCl till reaction ceases (removes carbonates).
Washed (rinsed) 3 times.
Conc. HF overnight (removes silicates).
Washed (rinsed) 3 times.
Heated (60-65°C) conc. HCl (remove fluorides caused by HF).
Washed 3 times.
Then put into 15ml test tube with 4-5ml 4% Alconox.
Differential centrifuge at 1500rpm for 90 sec.
Decant.
Wash 3 times with centrifuging.
Float off organic fraction using 2.0 S.G. Znbr solution.
Centrifuge 1000rpm, 8 min.
Float fraction into second test tube.
Wash 3 times with centrifuging.
Kerogen smear slide made.
Remaining kerogen material delivered to Vitrinite Reflectance Lab.

VITRINITE REFLECTANCE Lab preparation

Excess water pipetted off.
Freeze dried.
Mounted using epoxy resin (EPO-TEK 301) in predrilled plastic stubs.
Polished using modified coal petrology polishing methods.
Examined under oil lens at approximately 800x mag'n.

Appendix II (Dow,1977)



Note that the terminology describing the various maturation levels has been modified. The 'peak' designation has been changed to 'onset of significant' and 0.8 Ro is now used as the 'peak of oil generation'.

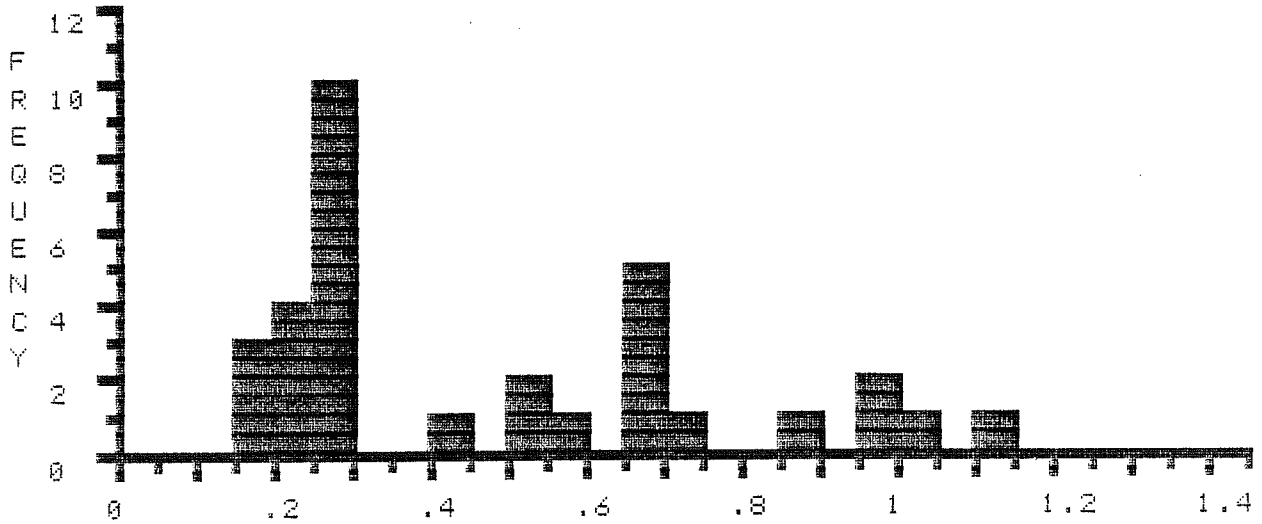
Vitrinite Reflectance Histograms

FILE >> KM308A DESCRIPTION FOLLOWS :
DEPTH 1830-1860', DOMINION O-23, MIKE AVERY, JUNE-13-85

COL>	0	1	2	3	4	5	6	7	8	9
ROW		*.16	*.18	*.19	*.2	*.22	*.23	*.24	*.25	*.25
1	*.26	*.27	*.27	*.27	*.28	*.28	*.28	*.28	.4	.51
2	.54	.59	.65	.67	.67	.68	.69	.72	.86	.96
3	.98	1.02	1.1							

	SUM	NUMBER	MIN	MAX	MEAN	STAND.DEV.
TOTAL >	15.15	32	.16	1.1	.47	.29
*EDIT >	4.11	17	.16	.28	.24	.04

% R E F L E C T A N C E



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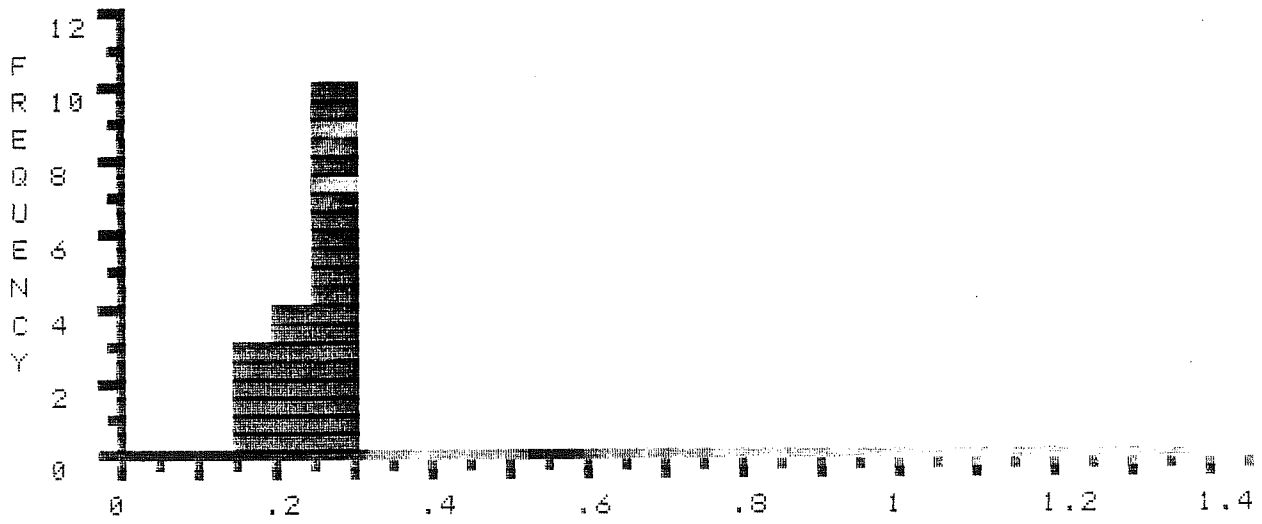
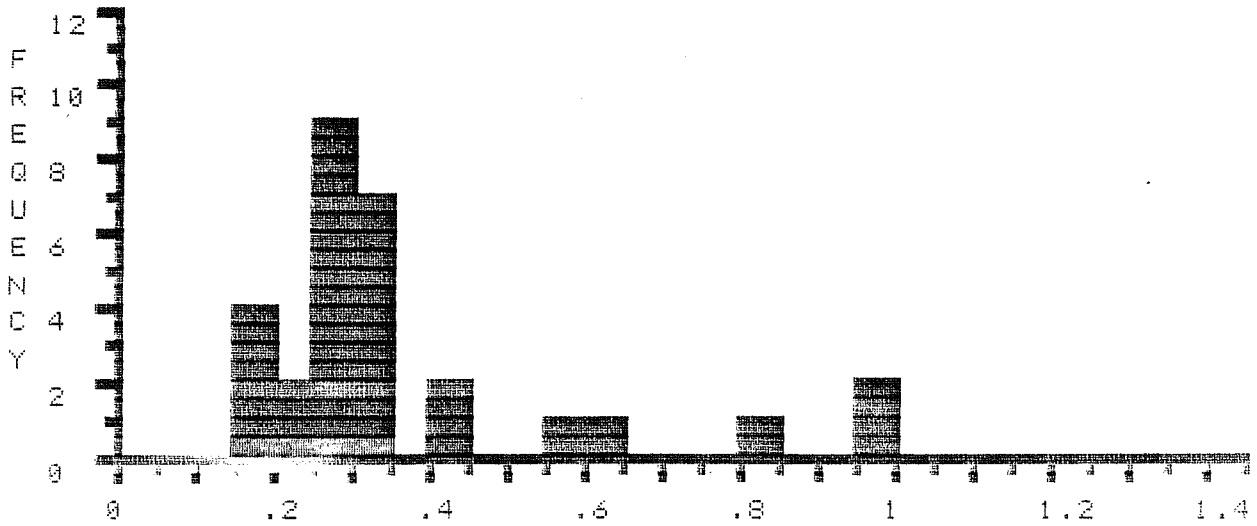


FILE >> KM308B DESCRIPTION FOLLOWS :
DEPTH 2100-2130', DOMINION O-23, MIKE AVERY, JUNE-13-85

COL>	0	1	2	3	4	5	6	7	8	9
ROW		*.17	*.18	*.19	*.19	*.21	*.22	*.25	*.27	*.27
1	*.27	*.27	*.28	*.28	*.28	*.29	*.3	*.3	*.3	*.3
2	*.31	*.33	*.33	.4	.4	.55	.63	.83	.98	.99

	SUM	NUMBER	MIN	MAX	MEAN	STAND.DEV.
TOTAL >	10.57	29	.17	.99	.36	.22
*EDIT >	5.79	22	.17	.33	.26	.05

% R E F L E C T A N C E



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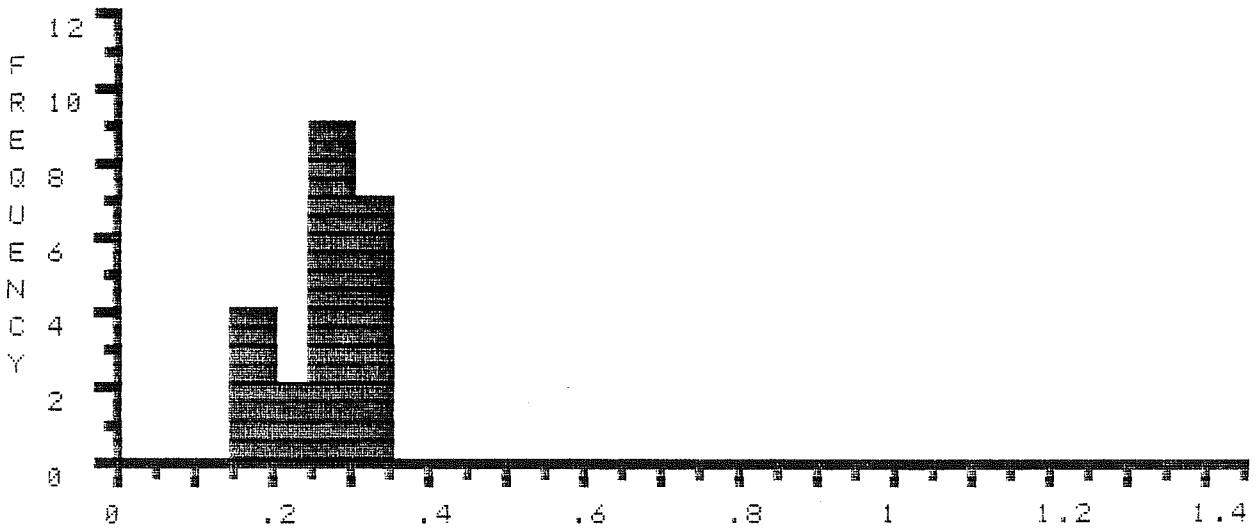
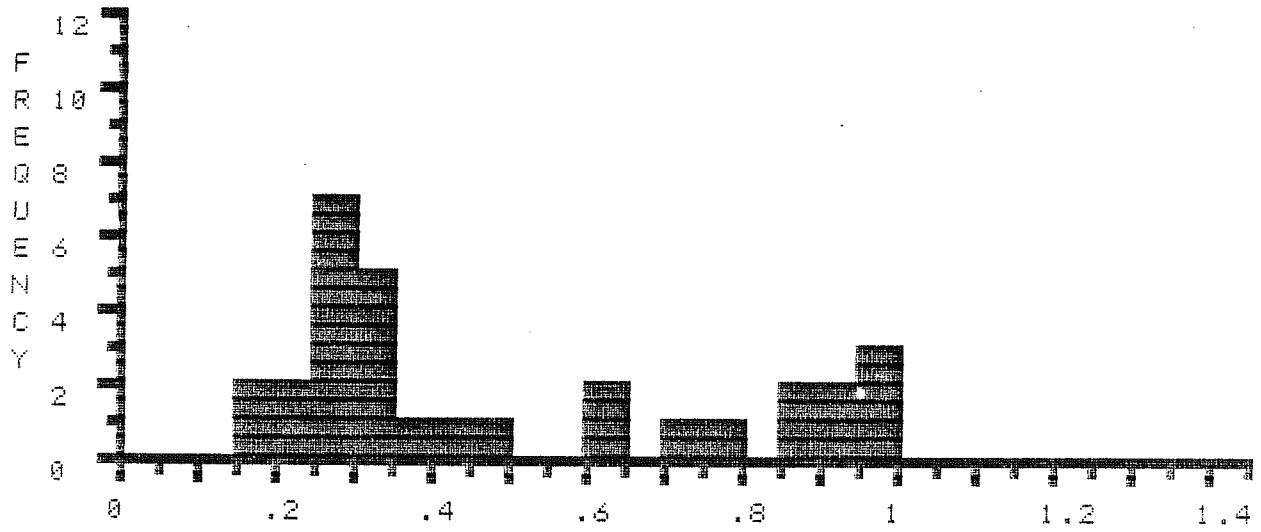


FILE >> KM308C DESCRIPTION FOLLOWS :
DEPTH 2850-2880', DOMINION O-23, MIKE AVERY, JUNE-13-85

COL>	0	1	2	3	4	5	6	7	8	9
ROW		*.19	*.19	*.2	*.2	*.26	*.26	*.27	*.28	*.28
1	*.28	*.29	*.3	*.31	*.32	*.33	*.33	*.35	.41	.45
2	.6	.64	.74	.78	.88	.88	.9	.92	.96	.99
3	.99									

	SUM	NUMBER	MIN	MAX	MEAN	STAND.DEV.
TOTAL >	14.78	30	.19	.99	.49	.29
*EDIT >	4.64	17	.19	.35	.27	.05

% R E F L E C T A N C E



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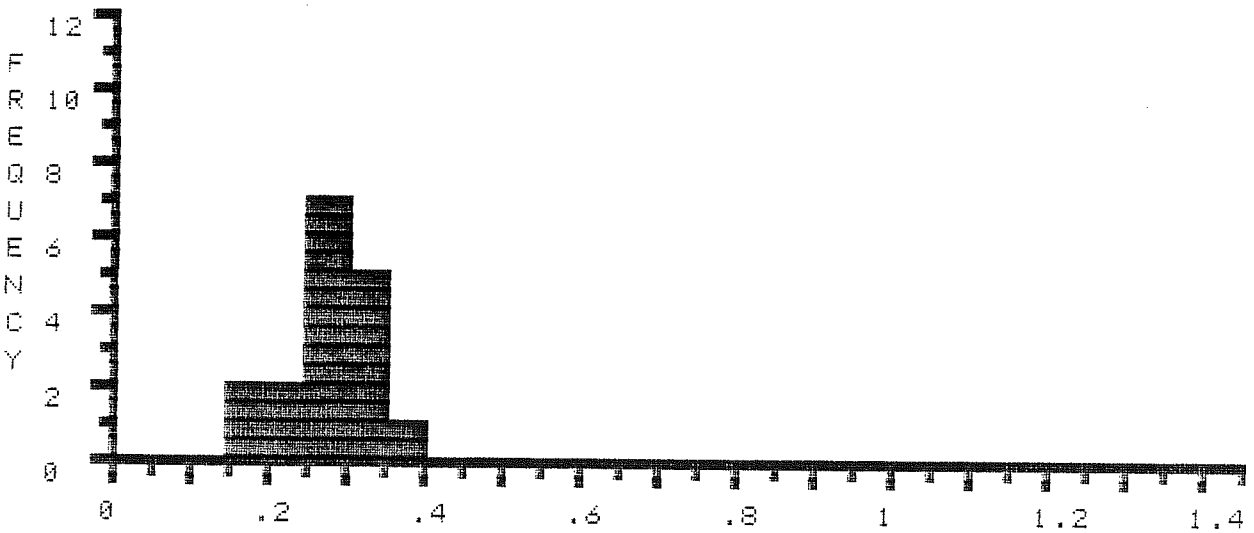
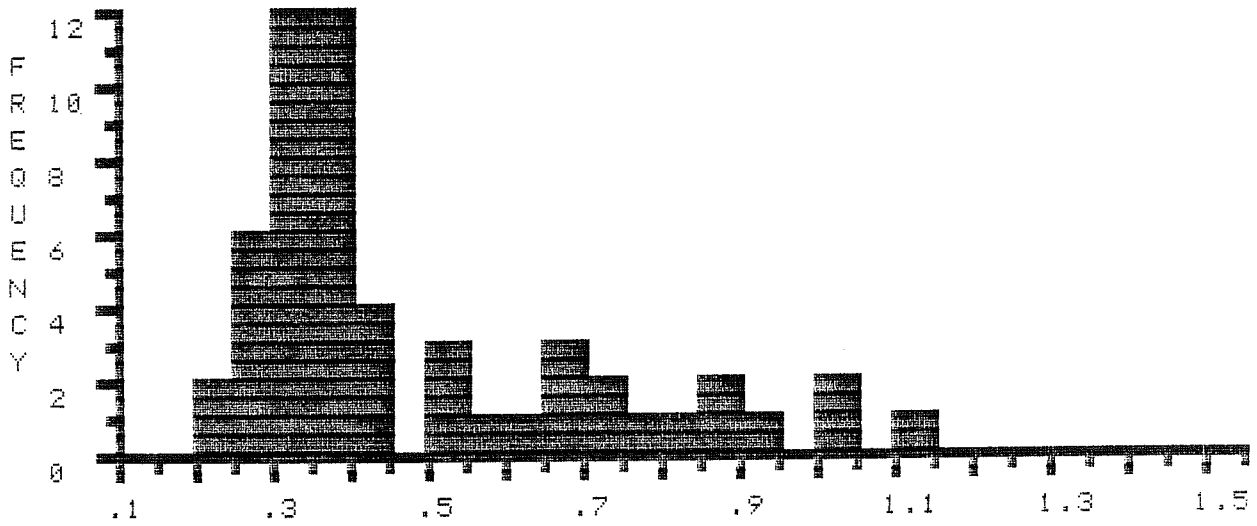


FILE >> KM309B DESCRIPTION FOLLOWS :
DEPTH 3480-3510', DOMINION O-23, MIKE AVERY, JUNE-14-85

COL>	0	1	2	3	4	5	6	7	8	9
ROW		*.2	*.24	*.25	*.26	*.27	*.27	*.28	*.29	*.3
1	*.3	*.31	*.32	*.32	*.33	*.33	*.33	*.33	*.34	*.34
2	*.34	*.35	*.35	*.36	*.36	*.37	*.37	*.37	*.37	*.37
3	*.38	*.39	*.39	*.4	*.41	*.43	*.44	.51	.53	.54
4	.58	.62	.66	.67	.67	.71	.74	.79	.81	.85
5	.88	.93	1	1.01	1.12					

	SUM	NUMBER	MIN	MAX	MEAN	STAND.DEV.
TOTAL >	25.68	54	.2	1.12	.47	.23
*EDIT >	12.06	36	.2	.44	.33	.05

% R E F L E C T A N C E



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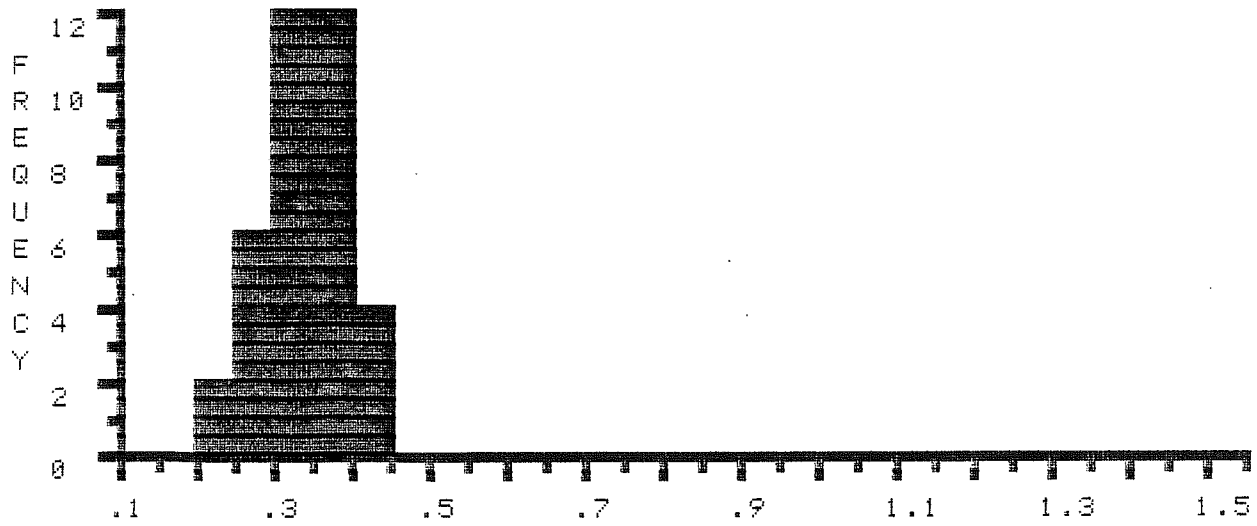
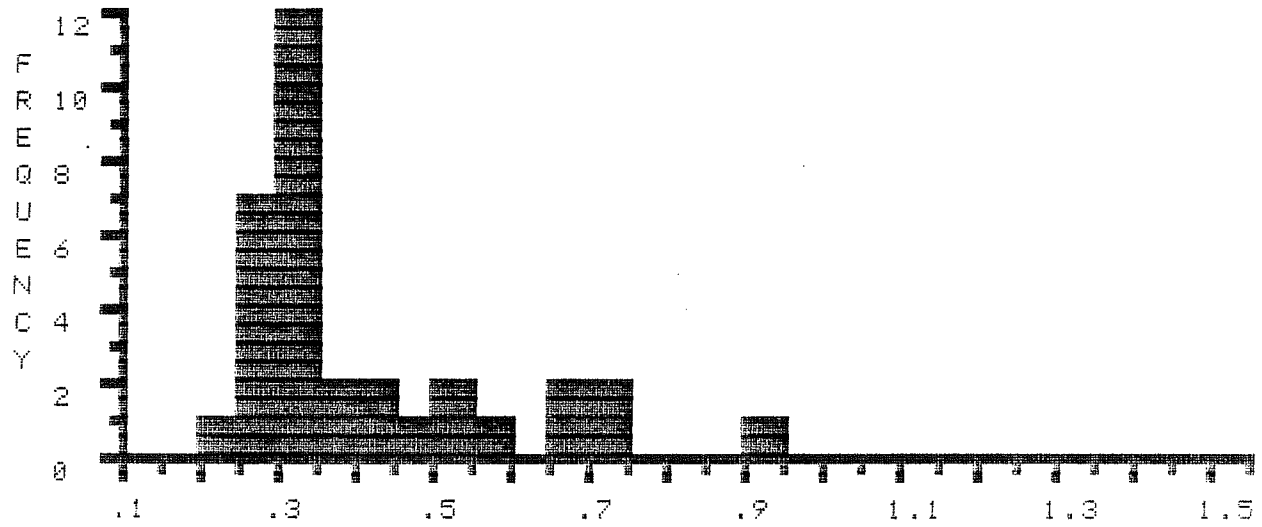


FILE >> KM310A DESCRIPTION FOLLOWS :
DEPTH 4470-4500', DOMINION O-23, MIKE AVERY, JUNE-14-85

COL>	0	1	2	3	4	5	6	7	8	9
ROW		*.24	*.26	*.26	*.26	*.27	*.27	*.28	*.29	*.3
1	*.3	*.31	*.32	*.32	*.33	*.33	*.34	*.34	*.34	*.34
2	*.34	*.36	*.37	*.41	*.44	.48	.52	.52	.56	.65
3	.69	.71	.73	.91						

	SUM	NUMBER	MIN	MAX	MEAN	STAND.DEV.
TOTAL >	13.39	33	.24	.91	.4	.16
*EDIT >	7.62	24	.24	.44	.32	.05

% R E F L E C T A N C E



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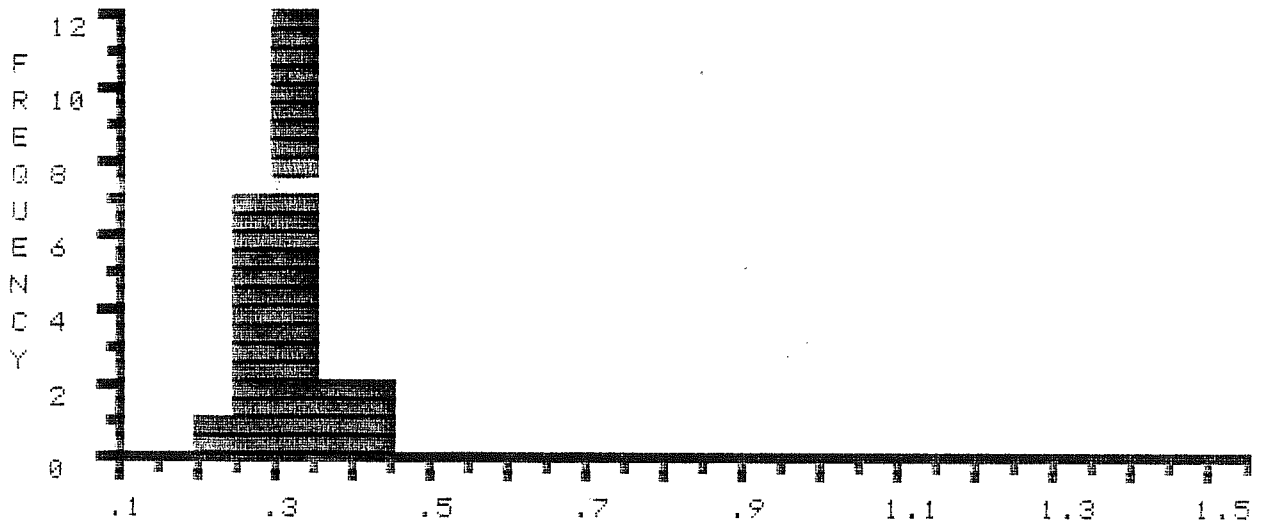
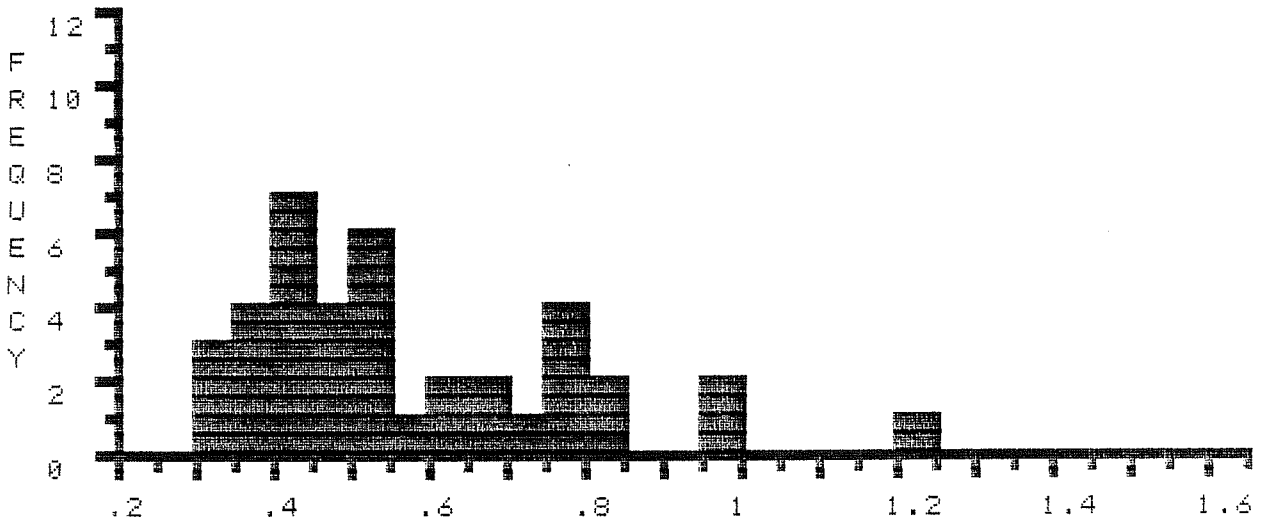


FILE >> KM310C DESCRIPTION FOLLOWS :
DEPTH 6360-6390', DOMINION O-23, MIKE AVERY, JUNE-14-85

COL>	0	1	2	3	4	5	6	7	8	9
ROW		*.31	*.32	*.34	*.37	*.38	*.38	*.39	*.4	*.41
1	*.43	*.43	*.44	*.44	*.44	*.47	*.47	*.48	*.49	*.5
2	*.51	*.52	*.52	*.53	*.54	*.57	.64	.64	.65	.67
3	.72	.76	.76	.77	.78	.83	.84	.98	.99	1.22

	SUM	NUMBER	MIN	MAX	MEAN	STAND.DEV.
TOTAL >	22.33	39	.31	1.22	.57	.21
*EDIT >	11.08	25	.31	.57	.44	.07

% R E F L E C T A N C E



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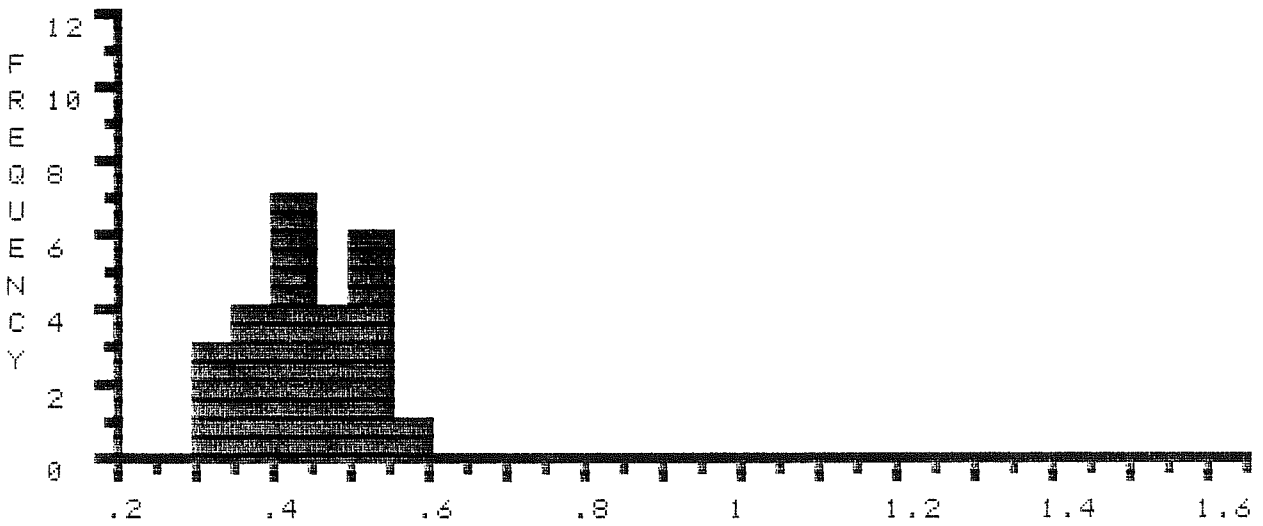
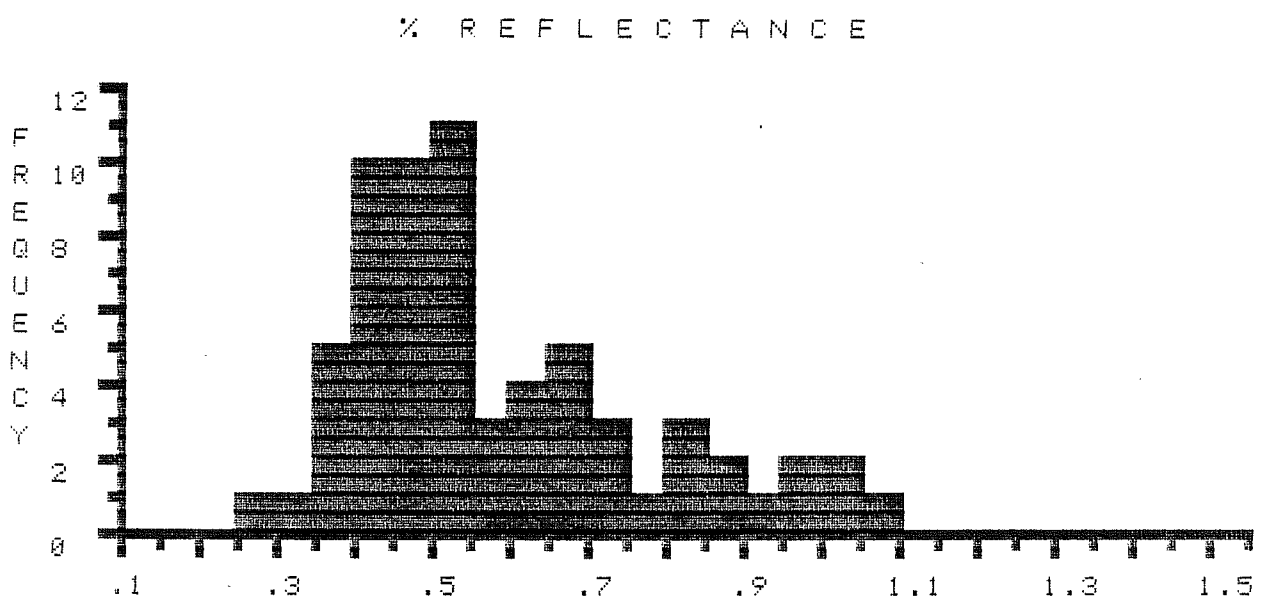
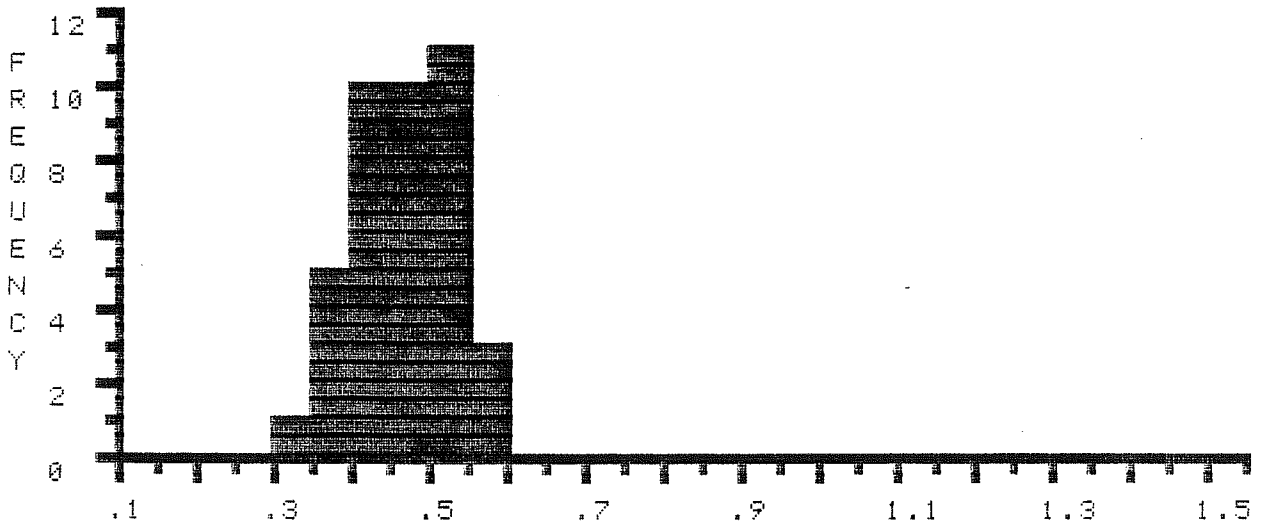


FILE >> KM3118 DESCRIPTION FOLLOWS :
DEPTH 7270-7300', DOMINION O-23, MIKE AVERY, JUNE-17-85

COL>	0	1	2	3	4	5	6	7	8	9
ROW		.28	*.33	*.36	*.37	*.38	*.38	*.39	*.4	*.41
1	*.41	*.42	*.42	*.43	*.43	*.43	*.44	*.44	*.45	*.45
2	*.46	*.47	*.48	*.48	*.49	*.49	*.49	*.49	*.5	*.5
3	*.5	*.5	*.51	*.52	*.52	*.53	*.53	*.53	*.54	*.55
4	*.56	*.59	.62	.62	.63	.64	.66	.67	.67	.68
5	.68	.71	.72	.73	.77	.81	.82	.82	.85	.89
6	.91	.96	.99	1.04	1.04	1.05				

	SUM	NUMBER	MIN	MAX	MEAN	STAND.DEV.
TOTAL >	37.83	65	.28	1.05	.58	.19
*EDIT >	18.57	40	.33	.59	.46	.06



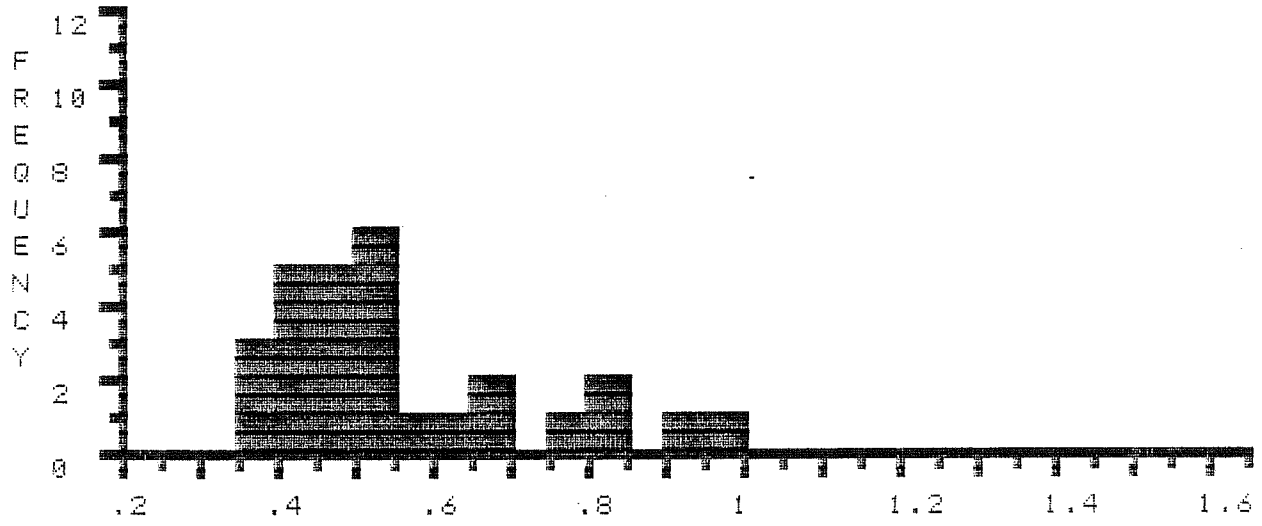


FILE >> KM311C DESCRIPTION FOLLOWS :
DEPTH 7670-7700', DOMINION O-23, MIKE AVERY, JUNE-20-85

COL>	0	1	2	3	4	5	6	7	8	9
ROW		*.36	*.39	*.39	*.42	*.42	*.42	*.43	*.44	*.45
1	*.45	*.45	*.47	*.49	*.5	*.5	*.5	*.52	*.53	*.53
2	*.55	.62	.67	.67	.79	.81	.84	.94	.97	

	SUM	NUMBER	MIN	MAX	MEAN	STAND.DEV.
TOTAL >	15.52	28	.36	.97	.55	.17
*EDIT >	9.21	20	.36	.55	.46	.05

% R E F L E C T A N C E



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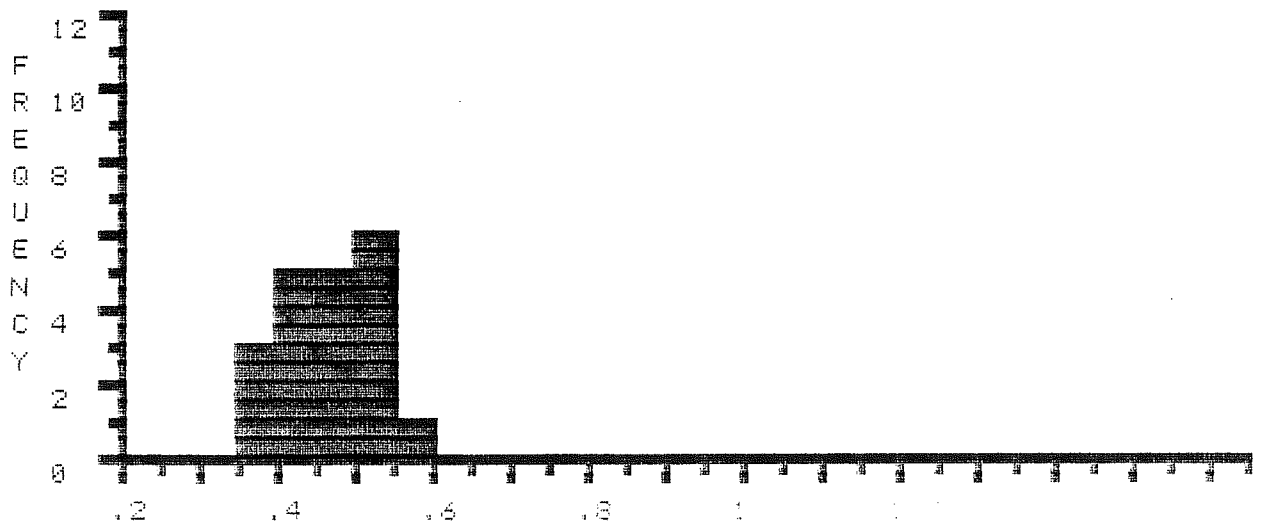
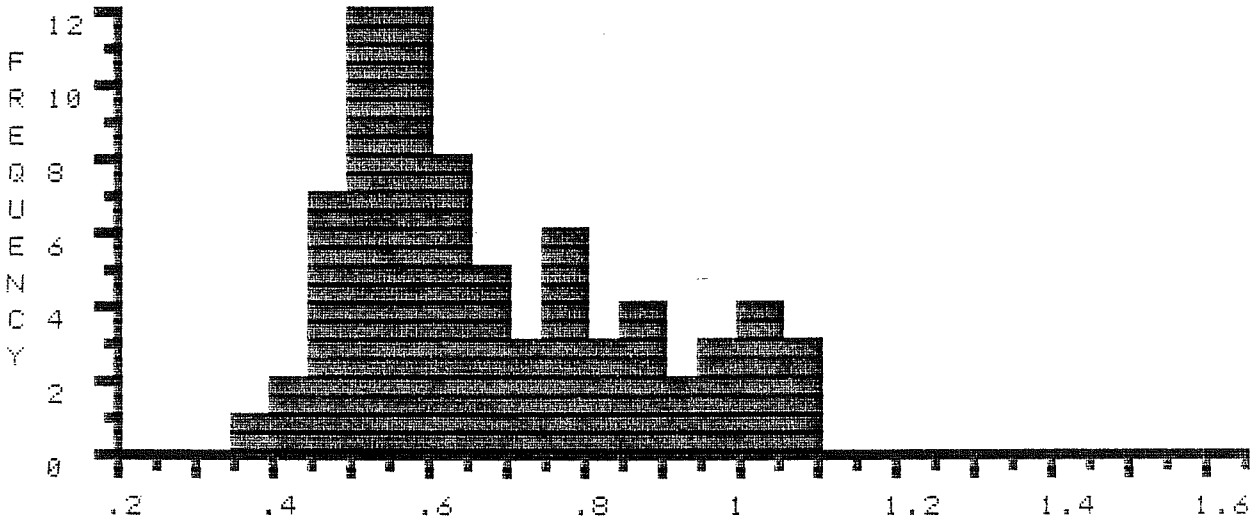


FILE >> KM312A DESCRIPTION FOLLOWS :
DEPTH 7970-8000', DOMINION O-23, MIKE AVERY, JUNE-17-85

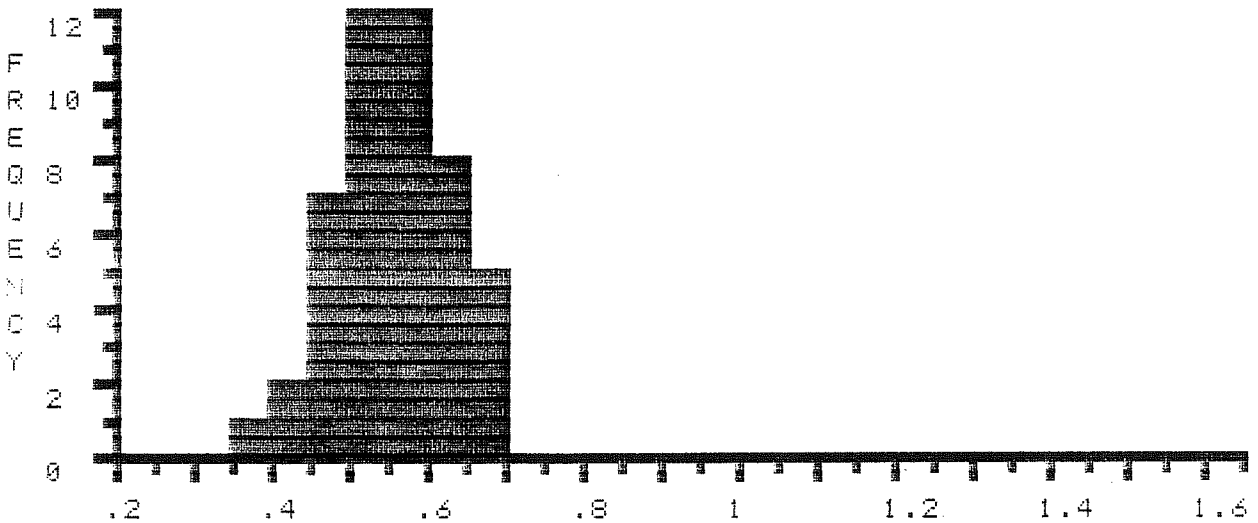
COL>	0	1	2	3	4	5	6	7	8	9
ROW		*.36	*.41	*.41	*.45	*.47	*.48	*.48	*.49	*.49
1	*.49	*.5	*.5	*.5	*.5	*.5	*.51	*.51	*.51	*.51
2	*.53	*.53	*.54	*.55	*.55	*.55	*.55	*.55	*.55	*.56
3	*.56	*.57	*.57	*.57	*.57	*.6	*.6	*.6	*.62	*.63
4	*.64	*.64	*.64	*.67	*.67	*.69	*.69	*.69	.74	.74
5	.74	.75	.76	.76	.77	.78	.79	.8	.83	.83
6	.86	.87	.88	.88	.91	.93	.96	.98	.99	1.03
7	1.04	1.04	1.04	1.06	1.08	1.09				

	SUM	NUMBER	MIN	MAX	MEAN	STAND.DEV.
TOTAL >	50.68	75	.36	1.09	.67	.19
*EDIT >	25.75	47	.36	.69	.55	.08

% R E F L E C T A N C E



% R E F L E C T A N C E * * EDITED * *

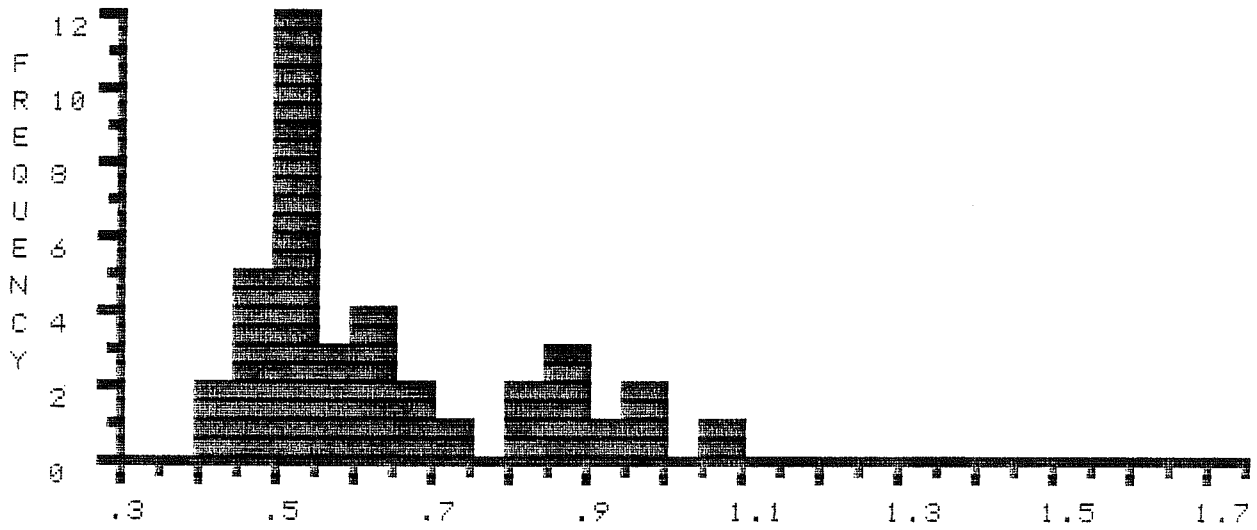


FILE >> KM312B DESCRIPTION FOLLOWS :
DEPTH 8270-8300'. DOMINION O-23. MIKE AVERY. JUNE-21-85

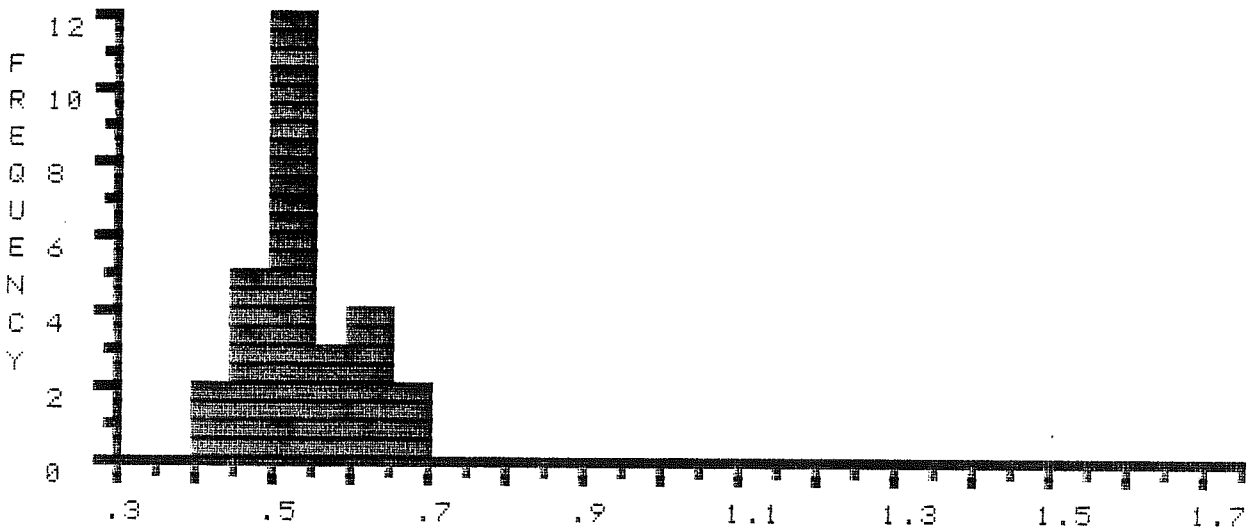
COL>	0	1	2	3	4	5	6	7	8	9
ROW		*.43	*.44	*.46	*.48	*.49	*.49	*.49	*.5	*.5
1	*.5	*.5	*.51	*.51	*.52	*.52	*.53	*.53	*.53	*.54
2	*.55	*.58	*.59	*.6	*.61	*.63	*.64	*.66	*.66	.7
3	.83	.83	.85	.86	.86	.93	.97	.97	1.07	

	SUM	NUMBER	MIN	MAX	MEAN	STAND.DEV.
TOTAL >	23.86	38	.43	1.07	.62	.17
*EDIT >	14.99	28	.43	.66	.54	.06

% R E F L E C T A N C E



% R E F L E C T A N C E * * EDITED * *

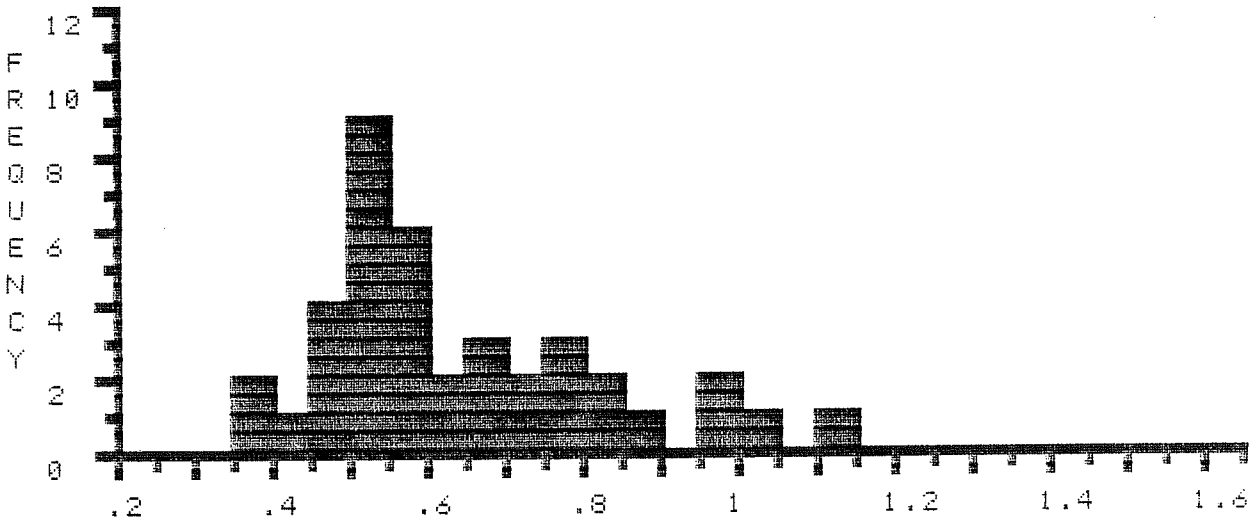


FILE >> KM312C DESCRIPTION FOLLOWS :
DEPTH 8570-8600', DOMINION O-23, MIKE AVERY, JUNE-17-85

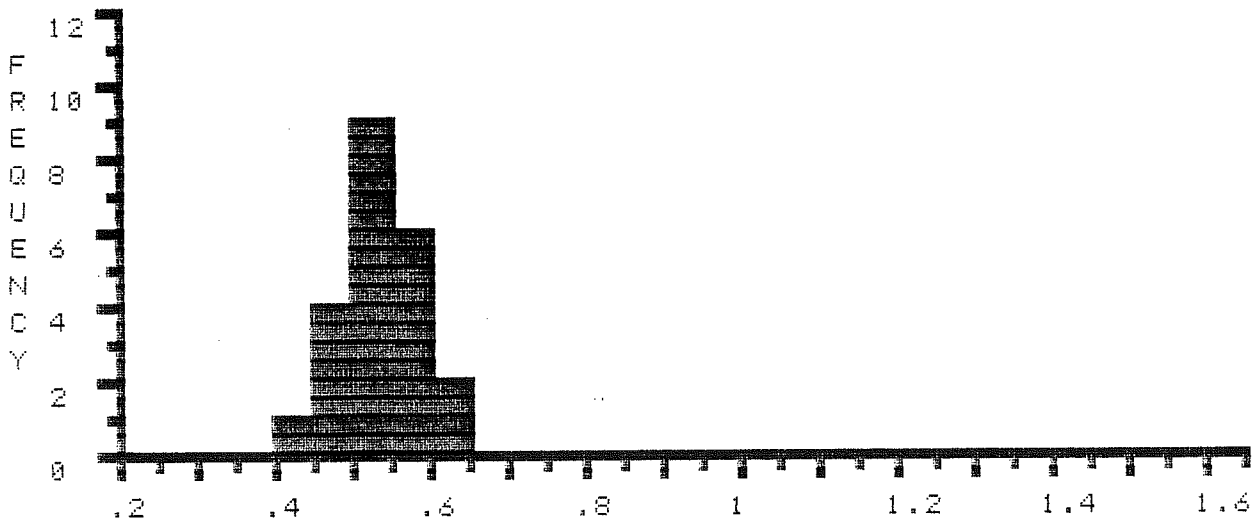
COL>	0	1	2	3	4	5	6	7	8	9
ROW		.38	.39	*.44	*.47	*.47	*.49	*.49	*.5	*.51
1	*.51	*.52	*.52	*.53	*.53	*.54	*.54	*.55	*.56	*.56
2	*.56	*.56	*.57	*.6	*.63	.66	.67	.68	.7	.72
3	.75	.76	.77	.81	.84	.87	.95	.99	1.01	1.12

	SUM	NUMBER	MIN	MAX	MEAN	STAND.DEV.
TOTAL >	24.72	39	.38	1.12	.63	.18
*EDIT >	11.65	22	.44	.63	.53	.04

% R E F L E C T A N C E



% R E F L E C T A N C E * * EDITED * *

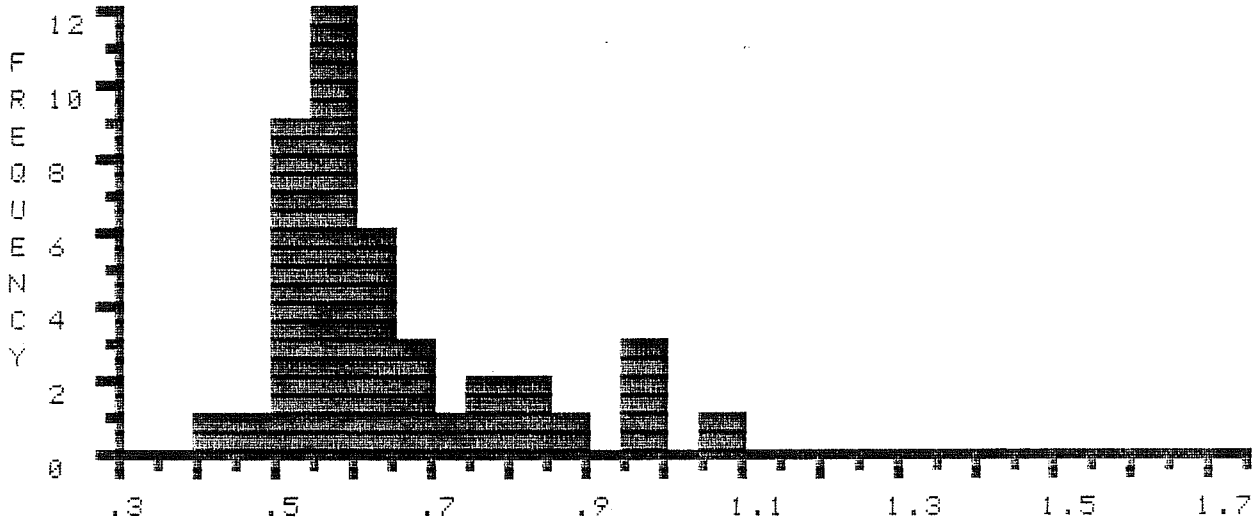


FILE >> KM313A DESCRIPTION FOLLOWS :
DEPTH 8970-9000', DOMINION O-23, MIKE AVERY, JUNE-21-85

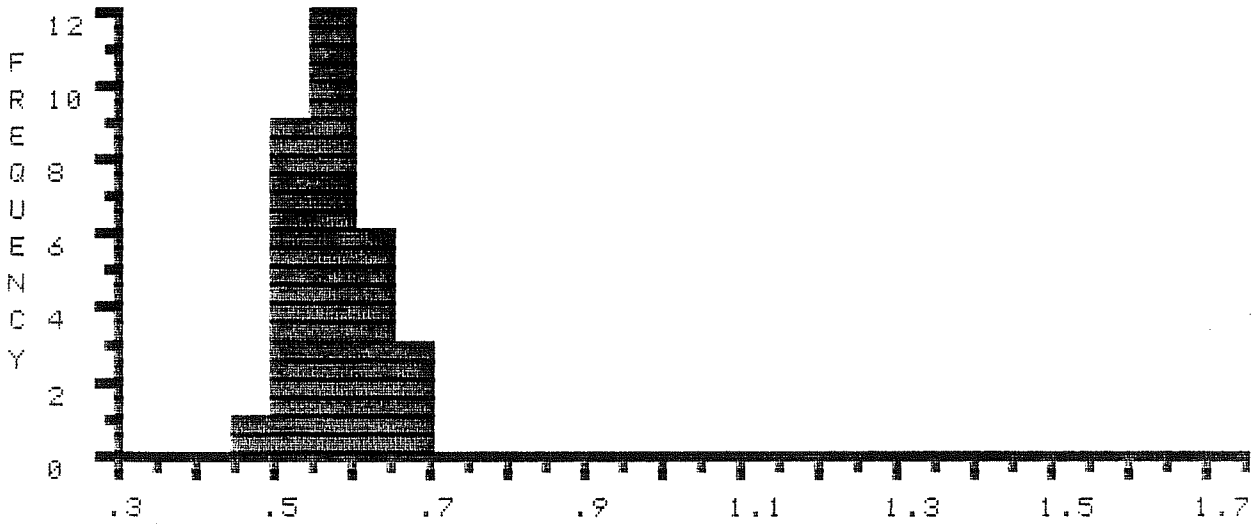
COL>	0	1	2	3	4	5	6	7	8	9
ROW		.41	*.47	*.5	*.51	*.52	*.53	*.53	*.54	*.54
1	*.54	*.54	*.55	*.55	*.57	*.57	*.57	*.58	*.58	*.58
2	*.58	*.58	*.58	*.59	*.6	*.6	*.61	*.61	*.62	*.63
3	*.65	*.65	*.66	.71	.75	.79	.81	.84	.85	.96
4	.97	.98	1.07							

	SUM	NUMBER	MIN	MAX	MEAN	STAND.DEV.
TOTAL >	26.87	42	.41	1.07	.64	.15
*EDIT >	17.73	31	.47	.66	.57	.05

% R E F L E C T A N C E



% R E F L E C T A N C E * * EDITED * *

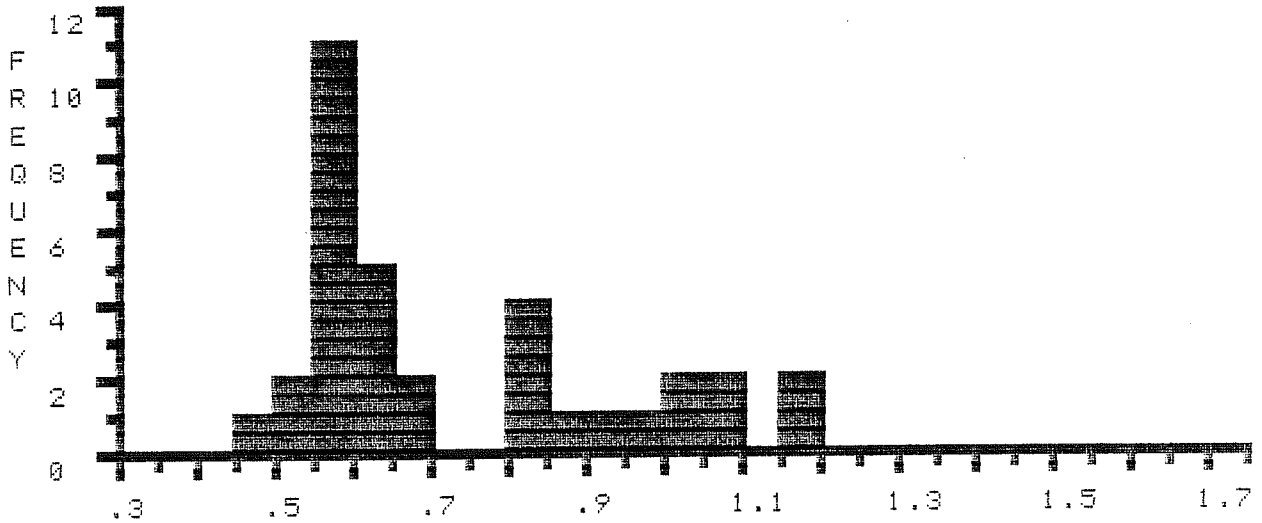


FILE >> KM313B DESCRIPTION FOLLOWS :
DEPTH 9370-9400', DOMINION O-23, MIKE AVERY, JUNE-17-85

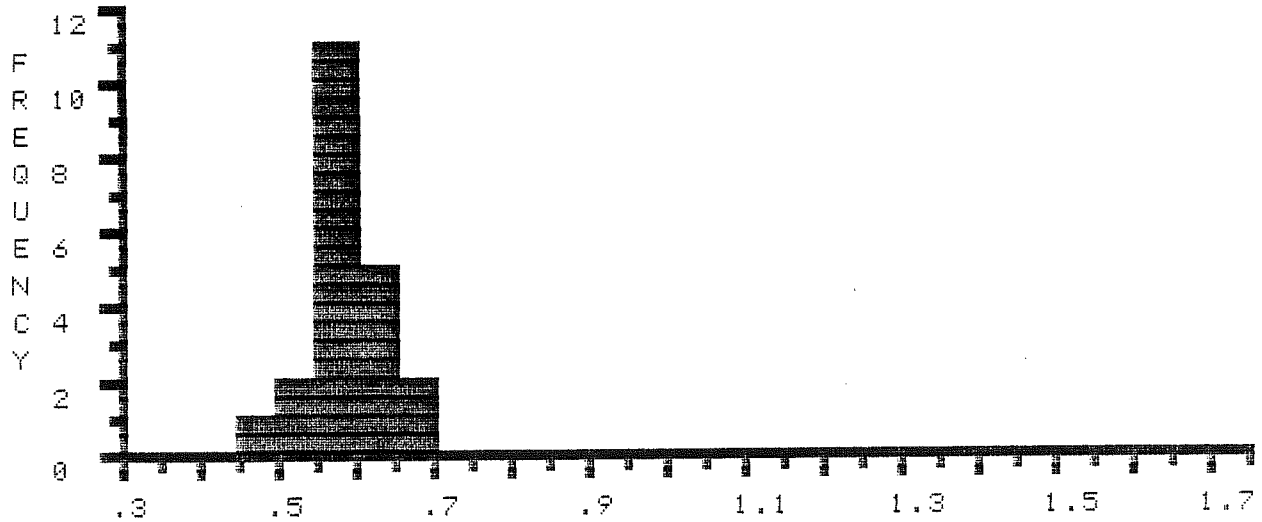
COL>	0	1	2	3	4	5	6	7	8	9
ROW		*.49	*.5	*.54	*.55	*.55	*.55	*.56	*.56	*.57
1	*.57	*.57	*.58	*.59	*.59	*.6	*.61	*.63	*.64	*.64
2	*.65	*.66	.8	.8	.81	.83	.88	.91	.96	1.02
3	1.04	1.07	1.09	1.15	1.19					

	SUM	NUMBER	MIN	MAX	MEAN	STAND.DEV.
TOTAL >	24.75	34	.49	1.19	.73	.21
*EDIT >	12.2	21	.49	.66	.58	.05

% R E F L E C T A N C E



% R E F L E C T A N C E * * EDITED * *

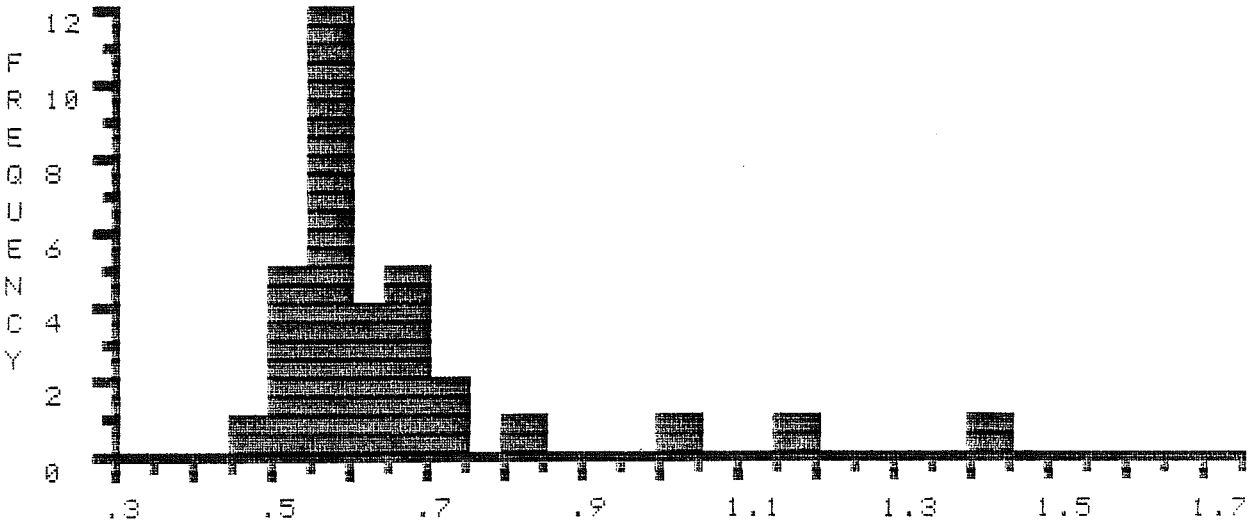


FILE >> KM313C DESCRIPTION FOLLOWS :
DEPTH 9770-9800', DOMINION O-23, MIKE AVERY, JUNE-21-85

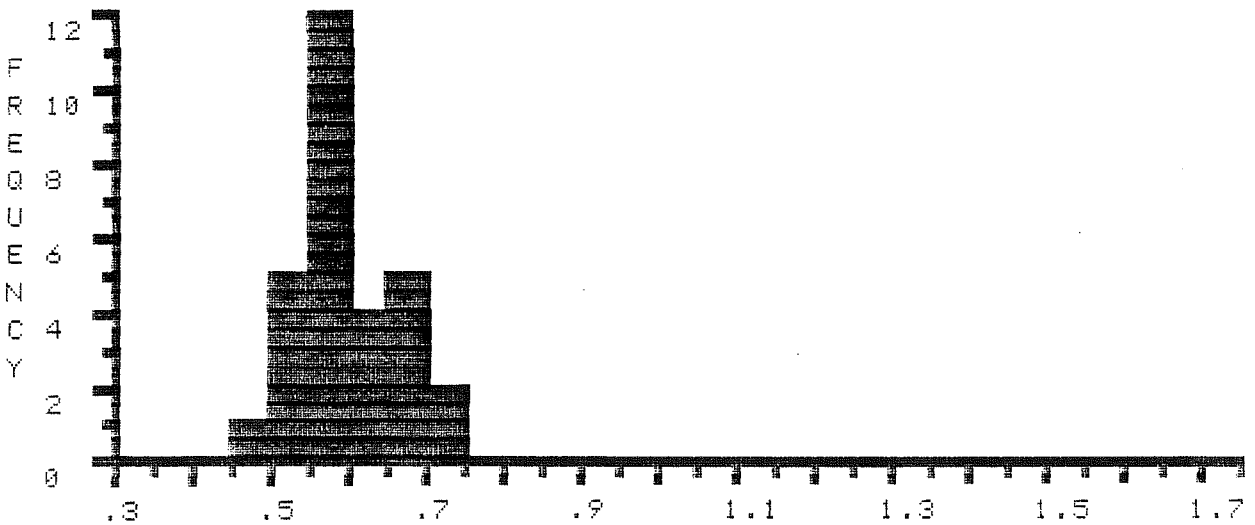
COL>	0	1	2	3	4	5	6	7	8	9
ROW		*.49	*.5	*.52	*.53	*.54	*.54	*.55	*.55	*.55
1	*.55	*.56	*.56	*.56	*.56	*.56	*.57	*.58	*.59	*.6
2	*.61	*.63	*.64	*.66	*.66	*.67	*.67	*.68	*.7	*.73
3	.84	1.04	1.18	1.43						

	SUM	NUMBER	MIN	MAX	MEAN	STAND.DEV.
TOTAL >	21.6	33	.49	1.43	.65	.2
*EDIT >	17.11	29	.49	.73	.59	.06

% R E F L E C T A N C E



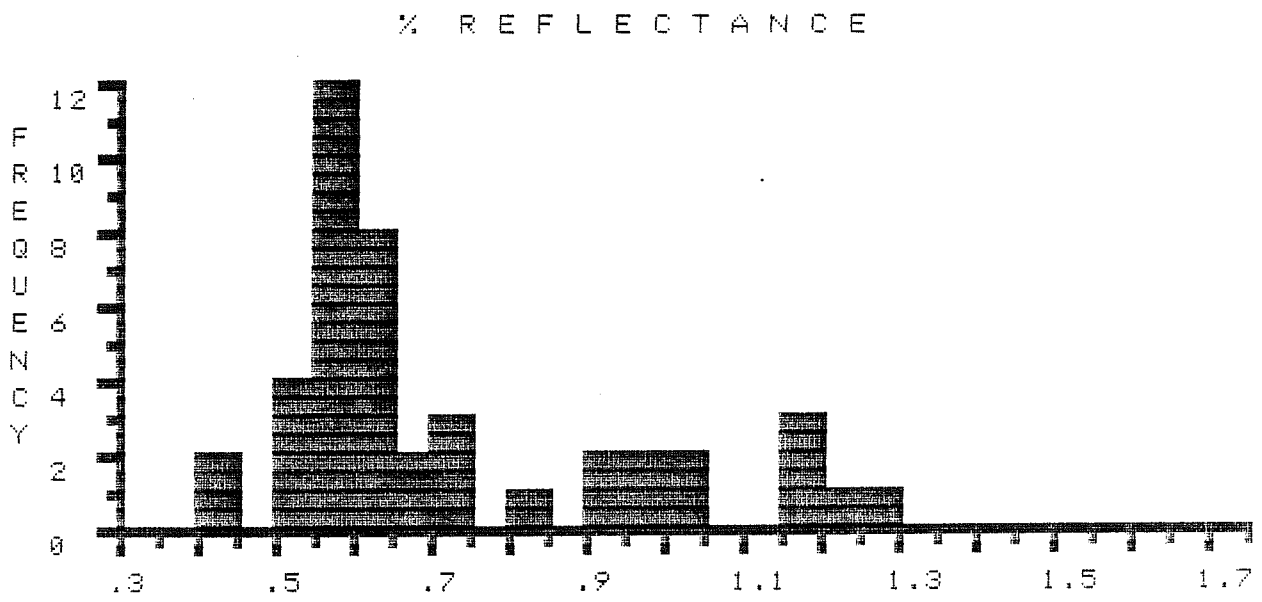
% R E F L E C T A N C E * * EDITED * *

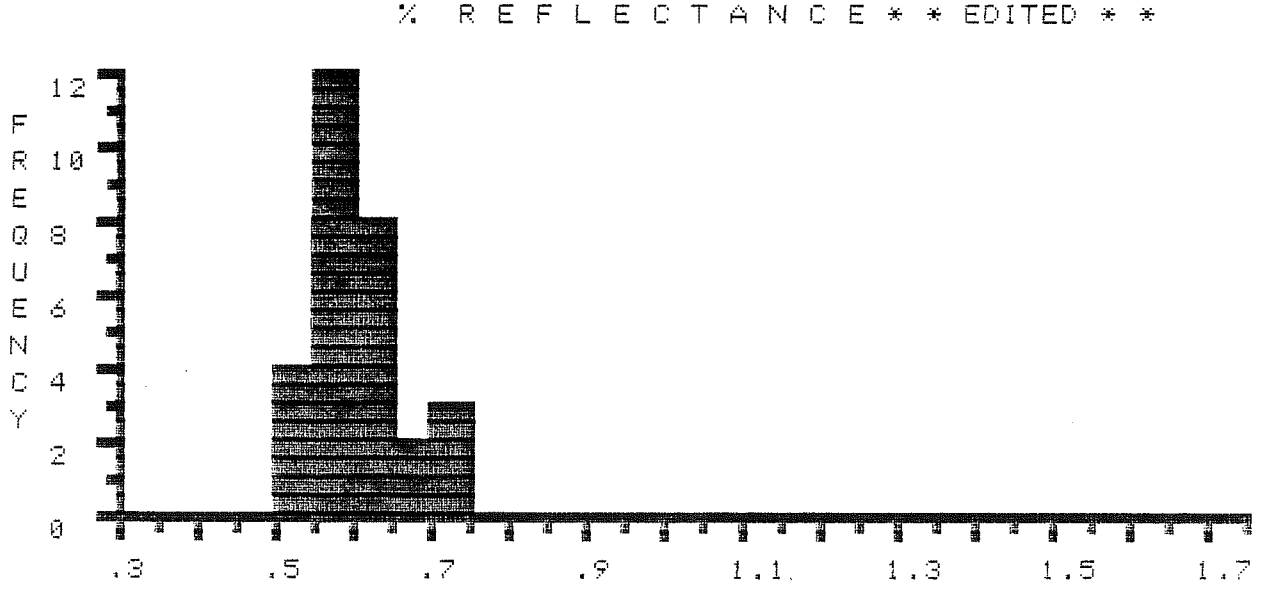


FILE >> KM314A DESCRIPTION FOLLOWS :
DEPTH 10070-10100', DOMINION O-23, MIKE AVERY, JUNE-17-85

COL>	0	1	2	3	4	5	6	7	8	9
ROW		.41	.44	*.52	*.53	*.53	*.54	*.55	*.55	*.56
1	*.56	*.57	*.57	*.58	*.58	*.58	*.58	*.59	*.59	*.6
2	*.6	*.6	*.61	*.62	*.62	*.62	*.64	*.65	*.67	*.7
3	*.71	*.73	.81	.92	.94	.96	.99	1	1.01	1.15
4	1.15	1.17	1.2	1.28						

	SUM	NUMBER	MIN	MAX	MEAN	STAND.DEV.
TOTAL >	30.78	43	.41	1.28	.71	.23
*EDIT >	17.35	29	.52	.73	.6	.05

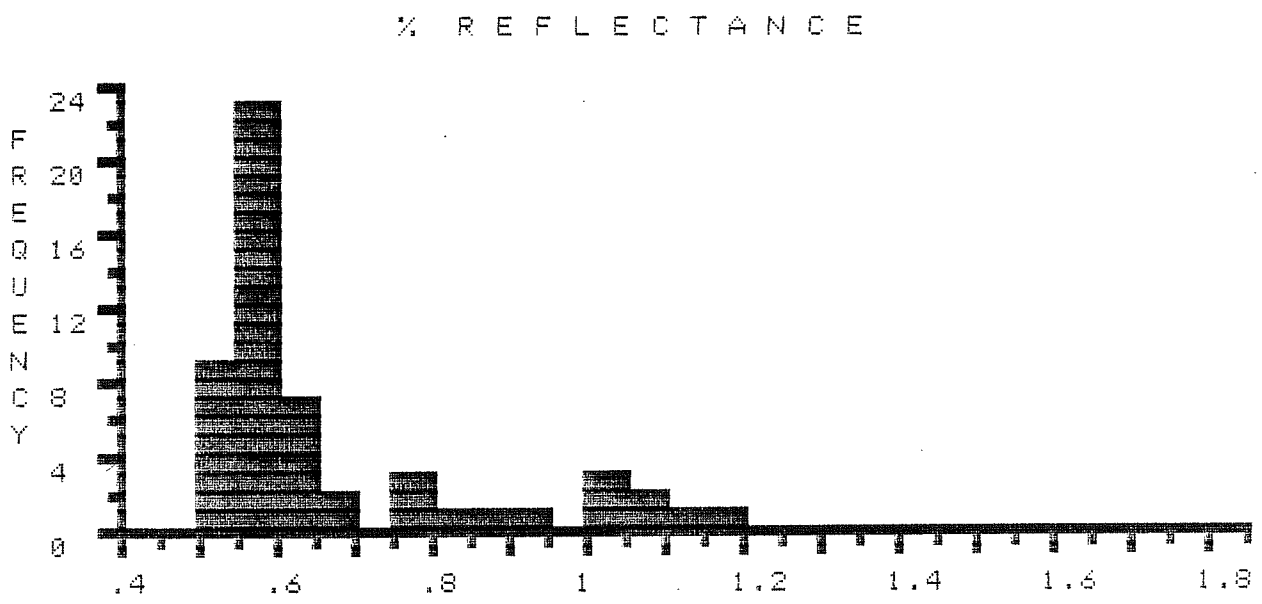


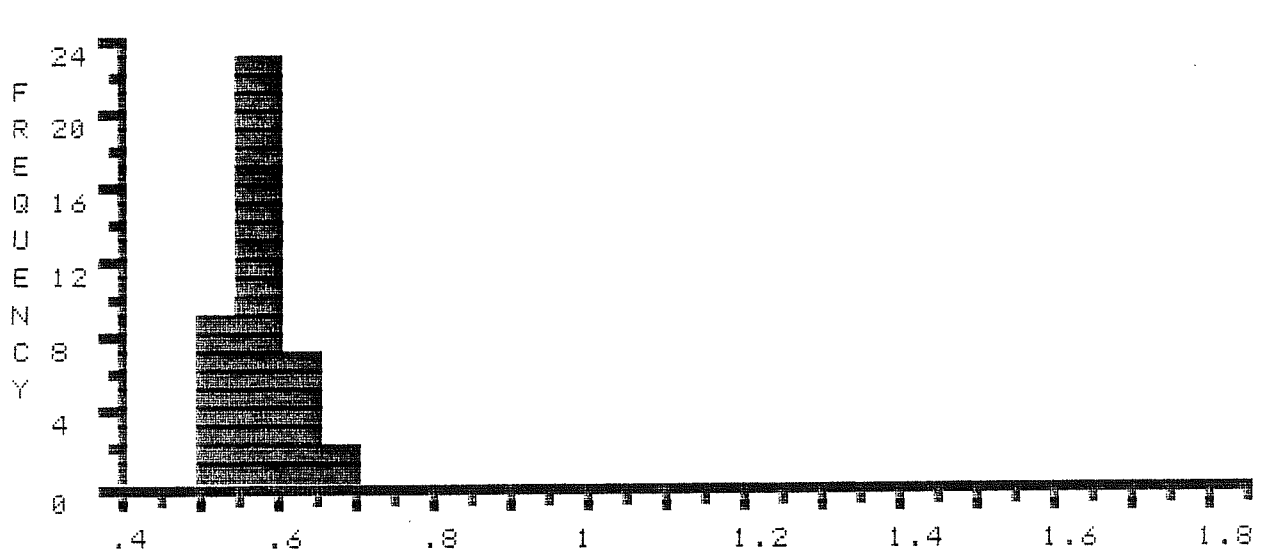


FILE >> KM3148 DESCRIPTION FOLLOWS :
DEPTH 10380-10410', DOMINION O-23, MIKE AVERY, JUNE-18-85

COL>	0	1	2	3	4	5	6	7	8	9
ROW		*.5	*.5	*.5	*.52	*.53	*.54	*.54	*.54	*.54
1	*.55	*.55	*.55	*.55	*.55	*.55	*.56	*.56	*.56	*.57
2	*.57	*.57	*.57	*.58	*.58	*.58	*.59	*.59	*.59	*.59
3	*.59	*.59	*.59	*.6	*.61	*.61	*.62	*.62	*.62	*.63
4	*.68	*.68	.75	.75	.77	.82	.87	.9	1	1.01
5	1.04	1.08	1.09	1.1	1.16					

	SUM	NUMBER	MIN	MAX	MEAN	STAND.DEV.
TOTAL >	35.85	54	.5	1.16	.66	.18
*EDIT >	23.51	41	.5	.68	.57	.04





FILE >> KM314C DESCRIPTION FOLLOWS :
DEPTH 11490-11520', DOMINION O-23, MIKE AVERY, JUNE-17-85

COL>	0	1	2	3	4	5				
ROW		.41	.45	.54	.54	.55	.55	.55	.55	.55
1	.55	.55	.56	.56	.56	.57	.58	.58	.58	.58
2	.58	.59	.59	.59	.59	.6	.6	.6	.6	.6
3	.61	.61	.61	.62	.62	.62	.63	.63	.64	.64
4	.64	*.66	*.67	*.67	*.68	*.7	*.71	*.72	*.72	*.74
5	*.74	*.74	*.75	*.75	*.76	*.77	*.77	*.77	*.78	*.79
6	*.79	*.8	*.84	.85	.85	.87	.89	.89	.9	.92
7	.93	.93	.97	.99	1	1	1.03	1.03	1.03	1.04
8	1.04	1.04	1.05	1.06	1.11	1.13	1.13	1.15	1.22	1.23
9	1.26	1.29	1.29	1.32	1.34	1.36	1.44	1.45	1.46	1.53

	SUM	NUMBER	MIN	MAX	MEAN	STAND.DEV.
TOTAL >	80.51	99	.41	1.53	.81	.27
*EDIT >	16.32	22	.66	.84	.74	.05