

Vitrinite reflectance data of cuttings from the Shell Oil Co. Kustatan
River No. 1 well

Received 24 July 1989

Total of 9 pages in report

Geologic Materials Center Data Report No. 132

9

P000484

Date from - Tom Edison

SHELL KUSTATAN 17786#1

DEPTH % REFL.

180 .27

480 .18

730 .22

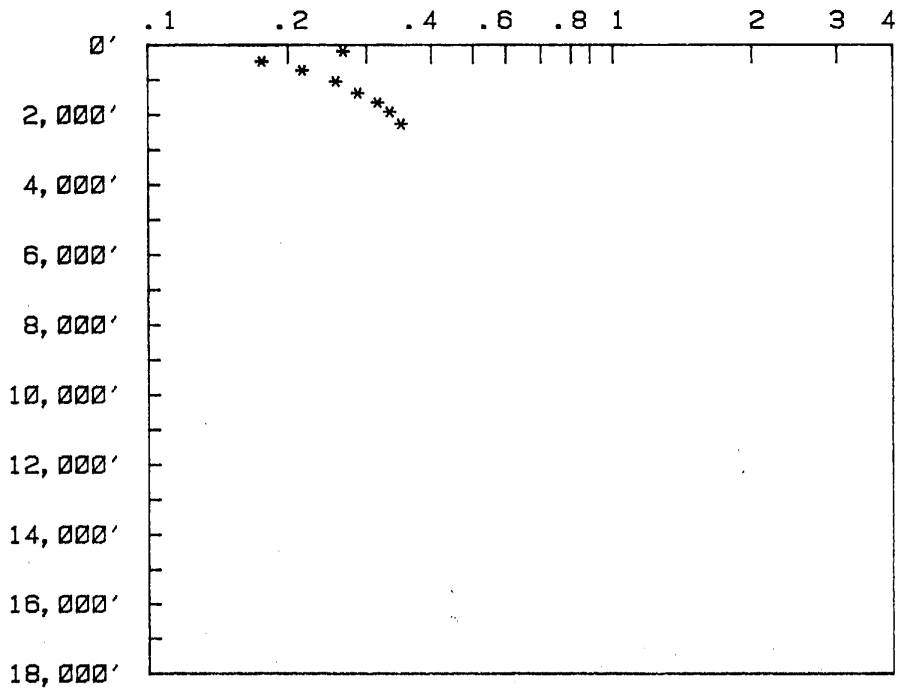
1050 .26

1380 .29

1650 .32

1920 .34

2265 .36

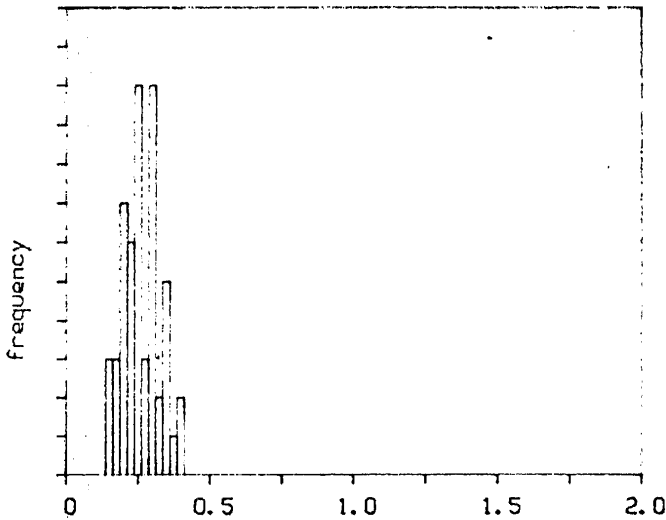


DEPTH vs REFLECTANCE

PERCENT REFLECTANCE @ 546 nm

KUSTATAN RIVER 17786 #1
 ALASKA DEPTH: 180-300 ft.
 PROJECT: SWEPI

REFLECTANCE VALUES



.15	.17	.17	.19	.19	.19	.20
.20	.22	.22	.22	.22	.22	.23
.23	.23	.24	.24	.24	.25	.25
.25	.25	.26	.26	.27	.27	.27
.27	.28	.28	.29	.30	.30	.30
.30	.31	.31	.32	.32	.32	.32
.33	.34	.35	.35	.36	.37	.37
.39	.40	.42				

TAI: NO MICROSLIDE

FLUORESCENCE: VERY RARE (IN ONLY TWO PARTICLES)

NO OF MEAS. = 52

AVG. REFL. = .27 VITRINITE (HUMINITE)

STD. DEV. = .06

COMMENTS: THIS IS A REFLECTOGRAM OF ALL MEASUREABLE PARTICLES, SEEMINGLY ALL VITRINITE (HUMINITE). ALL PARTICLES ARE SURROUNDED BY VERY FINE WHITE MINERAL MATTER (? "SILICA GEL"), WHICH MAY HAVE SLIGHTLY INCREASED THE REFLECTANCE READINGS OF THE ABUNDANT SMALL PARTICLES PRESENT. IF THE T.O.C. IS LOW, WHICH SEEMS LIKELY, THE PALEOENVIRONMENT OF DEPOSITION MAY HAVE BEEN MORE OXIC, WHICH COULD ALSO RESULT IN THE FORMATION OF A VITRINITE WITH SOMEWHAT HIGHER PERCENT REFLECTANCE VALUES. ALSO, SOME OF THE HIGHER REFLECTANCE VALUES MAY REPRESENT REDEPOSITED MATERIAL.

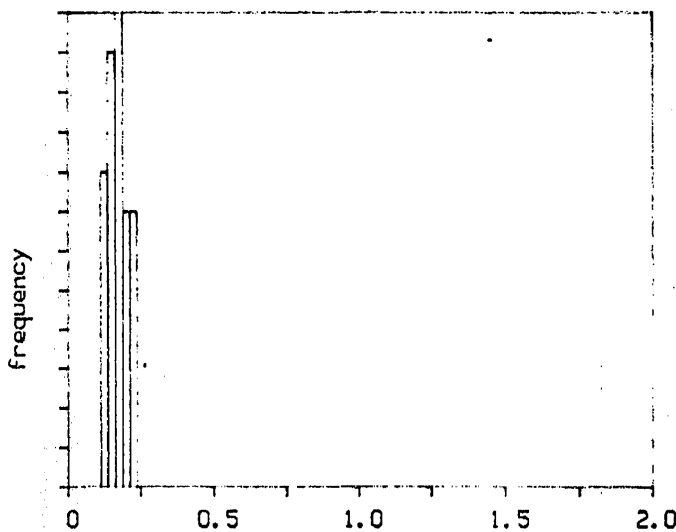
(AND VERY ABUNDANT)

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 1700

PERCENT REFLECTANCE @ 546 nm

KUSTATAN RIVER 17786 #1
 ALASKA DEPTH: 480-560 ft
 PROJECT: SWEPI

REFLECTANCE VALUES



.13	.13	.14	.14	.14	.14	.14
.14	.15	.15	.15	.16	.16	.16
.16	.16	.17	.17	.17	.18	.18
.18	.19	.19	.19	.19	.19	.19
.19	.19	.19	.19	.20	.20	.20
.20	.20	.22	.22	.23	.23	.23
.23	.23	.24	.24			

TAI: NO MICROSLIDE

FLUORESCENCE: RARE BRIGHT TO MEDIUM YELLOW
 IN A FEW PARTICLES.

NO OF MEAS. = 46

AVG. REFL. = .18 VITRINITE (HUMINITE)

STD. DEV. = .03

COMMENTS: PREDOMINANTLY VITRINITE, BUT EXINITE AND INERTINITE ALSO PRESENT, USUALLY WITHIN THE SAME "COALY" PARTICLES.

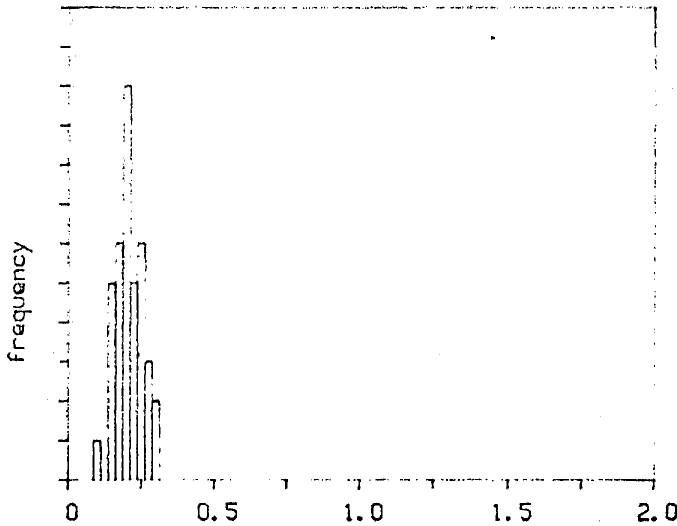
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PERCENT REFLECTANCE @ 546 nm

KUSTATAN RIVER 17786 #1
 ALASKA DEPTH: 730-840 ft
 PROJECT: SWEPI

REFLECTANCE VALUES

.12	.15	.16	.17	.17	.17	.18
.18	.18	.18	.18	.19	.20	.21
.21	.21	.21	.22	.22	.22	.22
.22	.23	.23	.23	.23	.24	.25
.25	.26	.26	.27	.27	.28	.29
.29	.31	.32				



*TAI: NO MICROSLIDE
 FLUORESCENCE: RARE TO COMMON BRIGHT
 YELLOW TO BULL YELLOW-ORANGE*

NO OF MEAS. = 38

AVG. REFL. = .22 VITRINITE (HUMINITE)

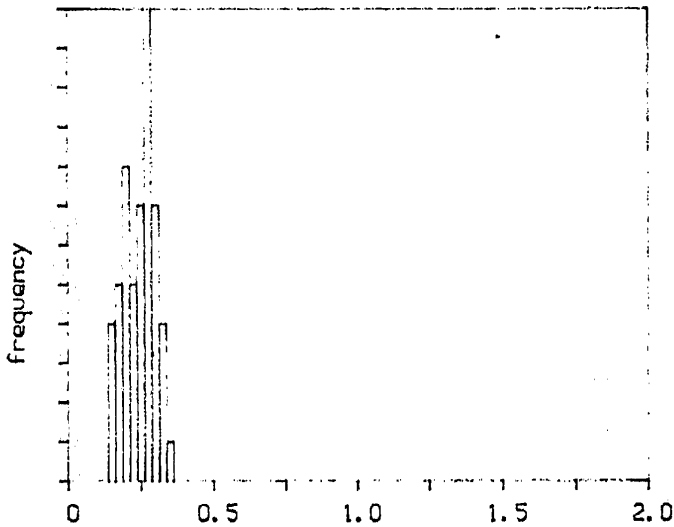
STD. DEV. = .04

COMMENTS: PREDOMINANTLY VITRINITE, BUT EXINITE AND INERTINITE ALSO PRESENT,
 USUALLY WITHIN THE SAME "COALY" PARTICLES.

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PERCENT REFLECTANCE @ 546 nm

KUSTATAN RIVER 17786 #1
 ALASKA DEPTH: 1050-1140 ft REFLECTANCE VALUES
 PROJECT: SWEPI



.16	.16	.17	.17	.18	.18	.18
.19	.19	.20	.20	.20	.21	.21
.22	.22	.22	.23	.23	.24	.24
.24	.25	.25	.26	.26	.27	.27
.27	.28	.28	.28	.28	.29	.29
.29	.29	.29	.29	.29	.29	.29
.30	.30	.30	.31	.31	.31	.32
.33	.33	.34	.34	.36		

TAI: NO MICROSLIDE

FLUORESCENCE: COMMON BRIGHT YELLOW TO DULL YELLOW-ORANGE

NO OF MEAS. = 54

AVG. REFL. = .26 VITRINITE (HUMINITE)

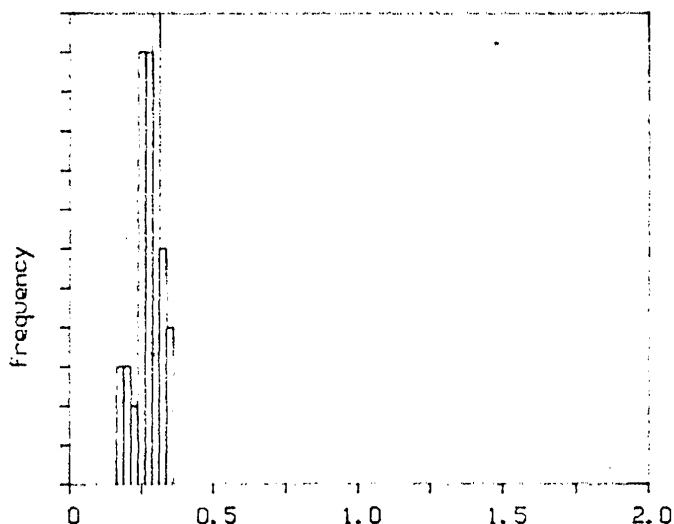
STD. DEV. = .05

COMMENTS: PREDOMINANTLY VITRINITE, BUT EXINITE MORE PREVALENT HERE THAN IN OTHER SAMPLES IN THIS SERIES. SOME INERTINITE ALSO PRESENT. MIXTURES OF MACERALS USUALLY FOUND IN "COALY" PARTICLES.

PERCENT REFLECTANCE @ 546 nm

KUSTATAN RIVER 17786 #1
 ALASKA DEPTH: 1380-1470 ft
 PROJECT: SWEPI

REFLECTANCE VALUES



.18	.19	.19	.21	.22	.22	.23
.23	.25	.25	.25	.25	.25	.25
.26	.26	.26	.27	.27	.28	.28
.28	.28	.28	.28	.28	.29	.29
.29	.29	.30	.30	.30	.31	.31
.31	.31	.31	.32	.32	.32	.32
.32	.32	.32	.33	.33	.33	.34
.34	.34	.35	.35	.36	.37	

TAI: NO MICROSLIDE

*FLUORESCENCE: RARE TO COMMON BRIGHT
 YELLOW TO DULL YELLOW-ORANGE*

NO OF MEAS. = 55

AVG. REFL. = .29 *VITRINITE (HUMINITE)*

STD. DEV. = .04

COMMENTS: *PREDOMINANTLY VITRINITE; EXINITE AND INERTINITE ALSO PRESENT, USUALLY
 ALL AS MIXTURES IN "COALY" PARTICLES.*

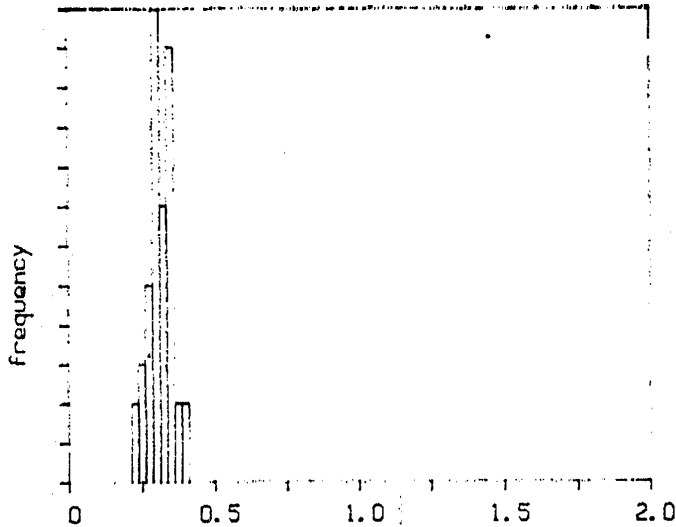
PERCENT REFLECTANCE @ 546 nm

KUSTATAN RIVER 17786 #1

ALASKA DEPTH: 1650-1740 ft

PROJECT: SWEPI

REFLECTANCE VALUES



.24	.24	.25	.27	.27	.28	.28
.29	.29	.29	.30	.30	.30	.30
.30	.30	.30	.31	.31	.31	.31
.31	.31	.32	.32	.32	.32	.33
.33	.34	.34	.34	.34	.34	.35
.35	.35	.35	.35	.35	.36	.36
.36	.37	.37	.38	.39	.42	.42

TAI: NO MICROSLIDE

FLUORESCENCE: RARE TO COMMON BRIGHT
YELLOW TO DULL YELLOW-ORANGE.

NO OF MEAS. = 49

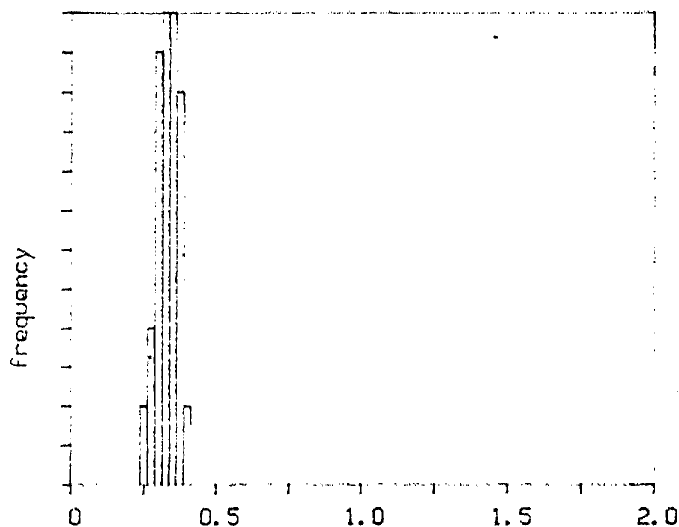
AVG. REFL. = .32 VITRINITE (HUMINITE)

STD. DEV. = .04

COMMENTS: PREJOMINANTLY VITRINITE; EXINITE AND INERTINITE ALSO PRESENT, USUALLY ALL AS MIXTURES IN "COALY" PARTICLES.

PERCENT REFLECTANCE @ 546 nm

KUSTATAN RIVER 17786 #1
 ALASKA DEPTH: 1920-2010 ft REFLECTANCE VALUES
 PROJECT: SWEPI



.27	.27	.28	.28	.29	.29	.30
.30	.30	.31	.31	.31	.32	.32
.32	.32	.32	.33	.33	.33	.34
.34	.34	.34	.34	.34	.34	.34
.34	.35	.35	.35	.35	.36	.36
.36	.36	.36	.36	.36	.37	.38
.38	.38	.38	.39	.39	.39	.39
.39	.39	.42	.42			

TAI: NO MICROSLIDE
 FLUORESCENCE: RARE BRIGHT YELLOW TO
 DULL YELLOW-ORANGE

NO OF MEAS. = 53
 AVG. REFL. = .34 VITRINITE (HUMINITE)
 STD. DEV. = .04

COMMENTS: PREDOMINANTLY VITRINITE; EXINITE AND INERTINITE PRESENT, USUALLY ALL AS MIXTURES IN "COALY" PARTICLES.

PERCENT REFLECTANCE @ 546 nm

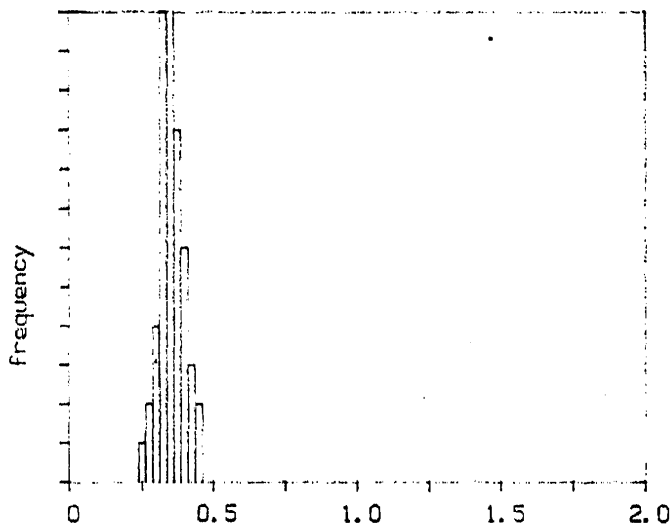
KUSTATAN RIVER 17786 #1

ALASKA

DEPTH: 2265-2340 ft

REFLECTANCE VALUES

PROJECT: SWEPI



.27	.28	.28	.30	.31	.31	.32
.33	.33	.33	.33	.33	.34	.34
.34	.34	.34	.34	.34	.35	.35
.36	.36	.36	.36	.36	.36	.36
.37	.37	.37	.37	.37	.37	.37
.38	.38	.38	.38	.38	.38	.38
.39	.39	.40	.40	.40	.41	.41
.41	.43	.43	.44	.45	.47	

TAI: NO MICROSLIDE

*FLUORESCENCE: RARE TO COMMON MOSTLY
DULL YELLOW-ORANGE*

NO OF MEAS. = 55

AVG. REFL. = .36 VITRINITE (HUMINITE)

STD. DEV. = .04

COMMENTS: *PREDOMINANTLY VITRINITE; EXINITE AND INERTINITE PRESENT, USUALLY ALL AS MIXTURES IN "COALY" PARTICLES.*