

Vitrinite reflectance data of cuttings from the Amoco Production Company
Albert Kaloa No. 1 well

Received 10 August 1989

Report contains a total of 49 pages.

Geologic Materials Center Data Report No. 133

AMOCO ALBERT KALOA #1, COOK INLET, ALASKA

ORGANIC MATTER THROUGHOUT THIS WELL IS SIMILAR IN THAT IT CONSISTS PREDOMINANTLY OF INTERGRADATIONAL TYPES OF VITRINITE (OFTEN DESMOCOLLINITE). EXINITE, A LESSER COMPONENT, CONSISTS PRIMARILY OF SPORINITE, LIPTODETRINITE, AND BITUMINITE.

DATA PLOTTED IN FIGURE 1 SHOW THAT SAMPLES ABOVE 3000 FT. CONTAIN THE MOST FLUORESCENT MATERIALS IN THE WELL. A COMBINATION OF LOW MATURATION AND HIGH OXIDATION LEVELS PRECLUDES THIS INTERVAL AS LIQUID HYDROCARBON GENERATIVE. ONLY ORGANIC MATTER CONTAINING LITTLE FLUORESCENCE OCCURS IN THE REMAINDER OF THE WELL, WHICH SUGGESTS POOR SOURCE ROCK POTENTIAL, EVEN THOUGH MATURATION INCREASES AND OXIDATION OFTEN DECREASES WITH DEPTH.

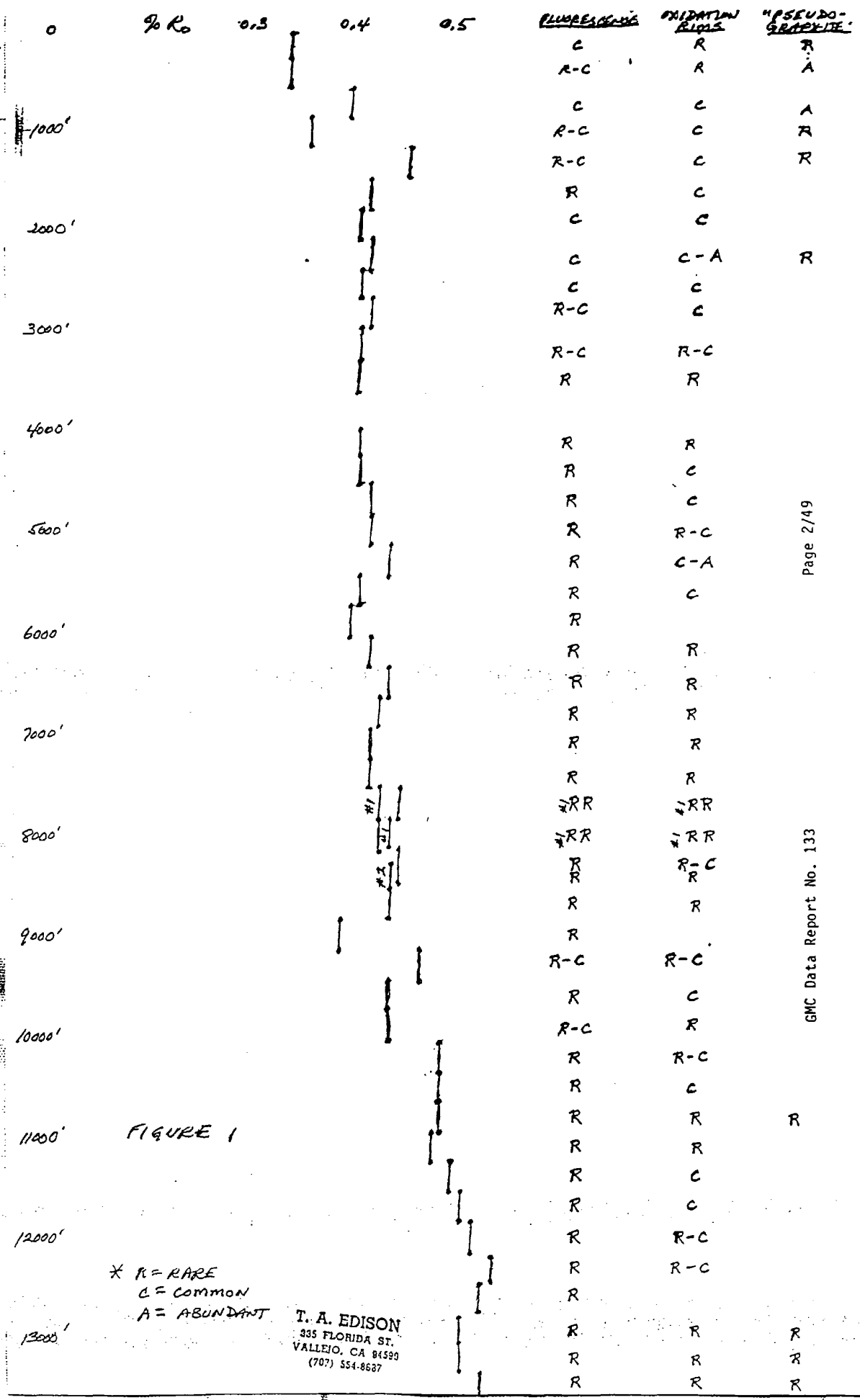


FIGURE 1

* R = RARE
C = COMMON
A = ABUNDANT

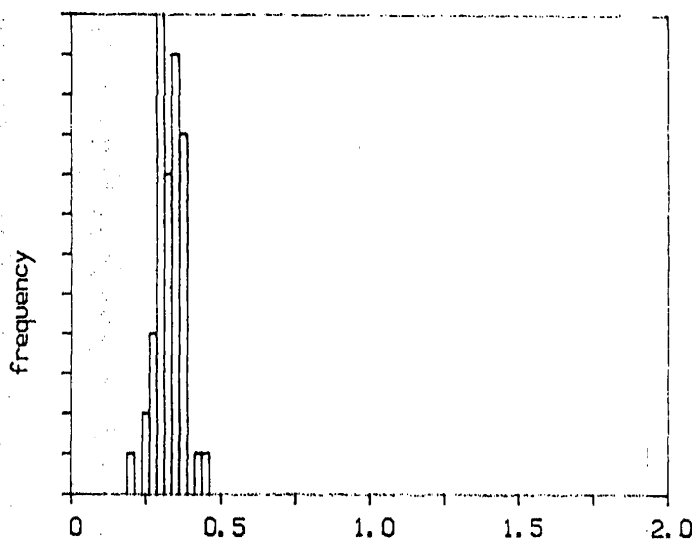
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PERCENT REFLECTANCE @ 546 nm

AMOCO ALBERT KALOA #1
ALASKA DEPTH: 36-300 ft
COOK INLET

REFLECTANCE VALUES



.21	.27	.27	.28	.28	.28	.29
.30	.30	.30	.31	.31	.31	.31
.31	.31	.31	.32	.32	.32	.33
.33	.33	.33	.33	.34	.34	.34
.35	.35	.35	.35	.35	.36	.36
.36	.36	.36	.37	.38	.38	.38
.38	.38	.38	.38	.38	.39	.44
.46						

TAI:
FLUORESCENCE: COMMON; YELLOW SPORINITE AND
LIPTODETRINITE; PALE YELLOW ? FLUORINITE.

OXIDATION RIMS: RARE

NO OF MEAS. = 50

AVG. REFL. = .34

STD. DEV. = .04

COMMENTS: RARE "PSEUDO-GRAPHITE"

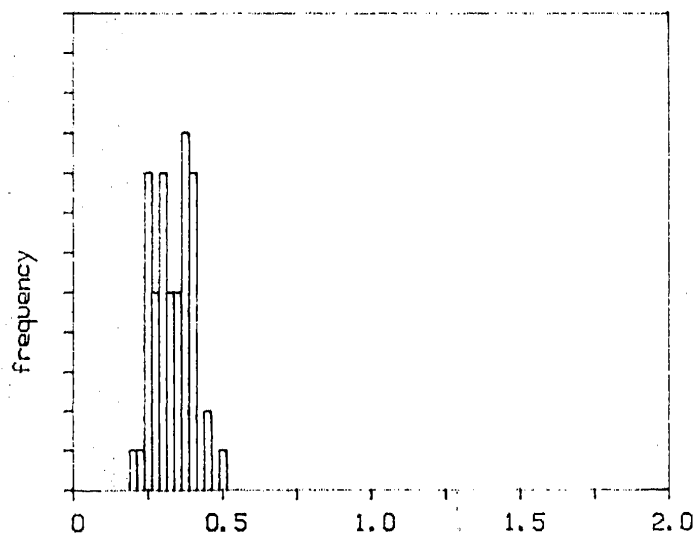
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PERCENT REFLECTANCE @ 546 nm

AMOCO ALBERT KALOA #1

ALASKA DEPTH: 300-580 ft
COOK INLET

REFLECTANCE VALUES



.21	.24	.25	.25	.25	.25	.25
.26	.27	.27	.28	.28	.28	.29
.29	.30	.30	.30	.31	.31	.31
.32	.32	.33	.33	.34	.34	.34
.36	.36	.36	.37	.37	.38	.38
.38	.38	.38	.38	.38	.39	.39
.40	.40	.40	.41	.41	.41	.42
.42	.45	.45	.51			

TAF!
FLUORESCENCE: RARE TO COMMON; DARK
ORANGE SPORINITE AND LIPTODETRINITE;
DARK YELLOW ? FLUORINITE.

OXIDATION RIMS: RARE

NO OF MEAS. = 53

AVG. REFL. = .34

STD. DEV. = .06

COMMENTS: FEW WELL-PRESERVED PYRITE FRAMBOIDS; ABUNDANT "PSEUDO-GRAPHITE"

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PERCENT REFLECTANCE @ 546 nm

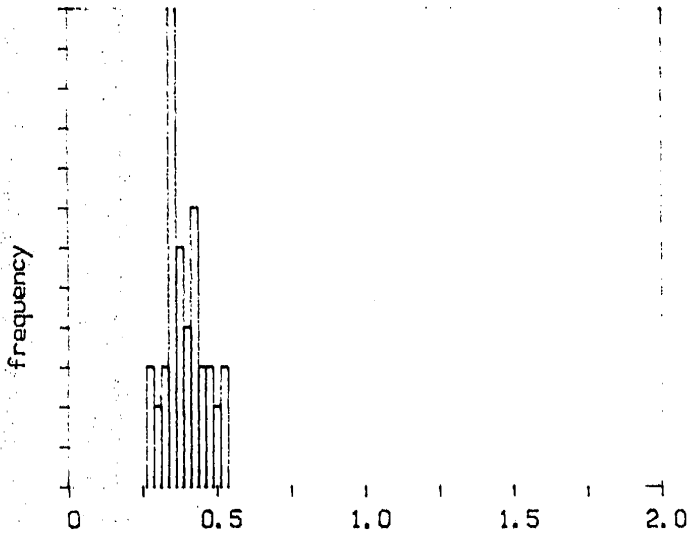
AMOCO ALBERT KALOA #1

ALASKA

DEPTH: 580-880 ft

COOK INLET

REFLECTANCE VALUES



.28	.28	.29	.32	.32	.33	.34
.34	.35	.35	.35	.36	.36	.37
.37	.37	.37	.37	.37	.37	.37
.38	.38	.38	.38	.39	.39	.40
.40	.40	.41	.43	.44	.44	.44
.44	.44	.44	.45	.45	.47	.48
.48	.49	.50	.51	.53	.53	.53

TAI:

FLUORESCENCE: COMMON; DARK ORANGE STORINITE
AND LIPTODETRINITE; YELLOW OIL DROPLETS,

OXIDATION RIMS: Common

NO OF MEAS. = 49

AVG. REFL. = .4

STD. DEV. = .06

COMMENTS: FEW WELL-PRESERVED PYRITE FRAMBOIDS; ABUNDANT "PSEUDO-GRAPHITE"

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PERCENT REFLECTANCE @ 546 nm

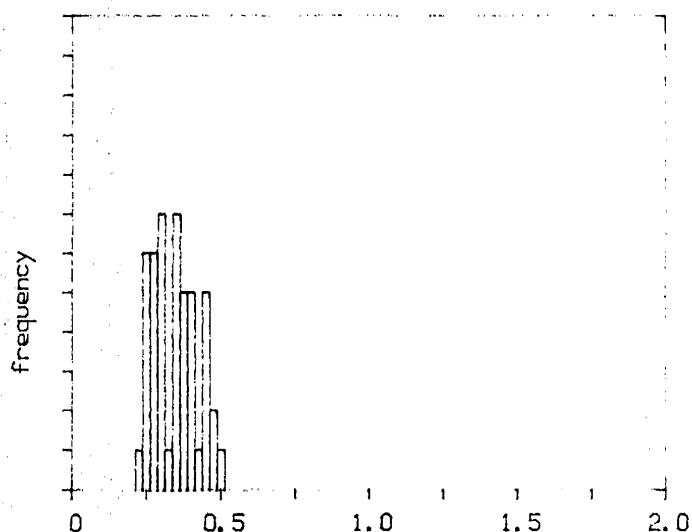
AMOCO ALBERT KALOA #1

ALASKA

DEPTH: 880-1180 ft

COOK INLET

REFLECTANCE VALUES



.24	.26	.26	.26	.27	.27	.27
.28	.28	.28	.29	.29	.29	.30
.30	.30	.30	.31	.32	.32	.33
.36	.36	.37	.37	.37	.37	.37
.38	.38	.38	.39	.39	.40	.40
.40	.40	.41	.44	.45	.45	.46
.46	.46	.48	.49	.50		

TAE:

FLUORESCENCE: RARE TO COMMON; YELLOW TO ORANGE SPORINITE AND LIPTODETRINITE.

OXIDATION RIMS: COMMON

NO OF MEAS. = 47

AVG. REFL. = .36

STD. DEV. = .07

COMMENTS: FEW WELL-PRESERVED PYRITE FRAMBOIDS; RARE "PSEUDO-GRAPHITE"

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PERCENT REFLECTANCE @ 546 nm

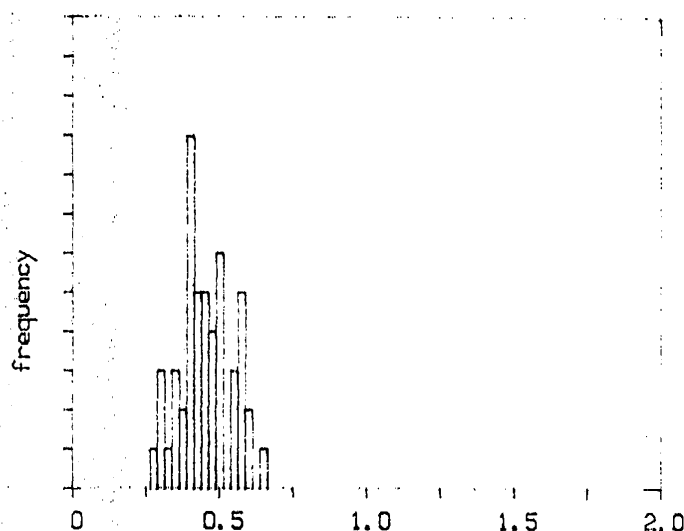
AMOCO ALBERT KALOA #1

ALASKA

DEPTH: 1180-1480 ft

REFLECTANCE VALUES

COOK INLET



.29	.30	.31	.32	.33	.36	.36
.37	.38	.39	.40	.40	.40	.40
.41	.41	.41	.41	.42	.43	.43
.44	.44	.44	.45	.46	.47	.47
.47	.48	.48	.49	.49	.50	.50
.51	.51	.52	.52	.55	.55	.56
.58	.58	.59	.59	.59	.60	.62
.67						

TAI!

FLUORESCENCE: RARE TO COMMON. ORANGE
 SPORINITE AND LIPTODETRINITE. BRIGHT
 YELLOW ? SOLIDIFIED BITUMEN

OXIDATION RIMS; COMMON

NO OF MEAS. = 50

AVG. REFL. = .46

STD. DEV. = .09

COMMENTS: "PSEUDO-GRAPHITE" RARE,

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PERCENT REFLECTANCE @ 546 nm

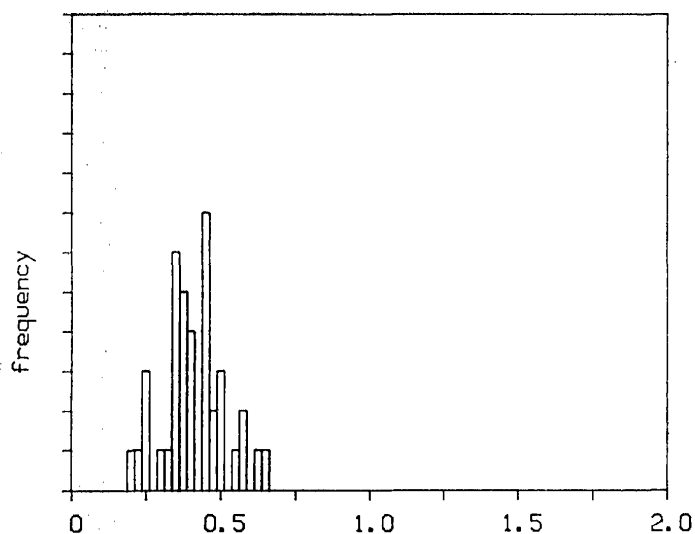
AMOCO ALBERT KALOA #1

ALASKA

DEPTH: 1480-1780 ft

REFLECTANCE VALUES

COOK INLET



.22	.23	.25	.26	.27	.32	.34
.35	.35	.35	.36	.36	.36	.38
.38	.38	.38	.39	.40	.40	.41
.42	.45	.45	.45	.45	.46	.46
.47	.48	.49	.50	.51	.51	.55
.58	.59	.64	.65			

TAI:

FLUORESCENCE: RARE; ORANGE TO DULL ORANGE
SPORINITE AND LIPTODETRINITE; ORANGE
SOLIDIFIED BITUMEN.

OXIDATION RIMS: COMMON

NO OF MEAS. = 39

AVG. REFL. = .42

STD. DEV. = .1

COMMENTS: FEW WELL-PRESERVED PYRITE FRAMBOIDS

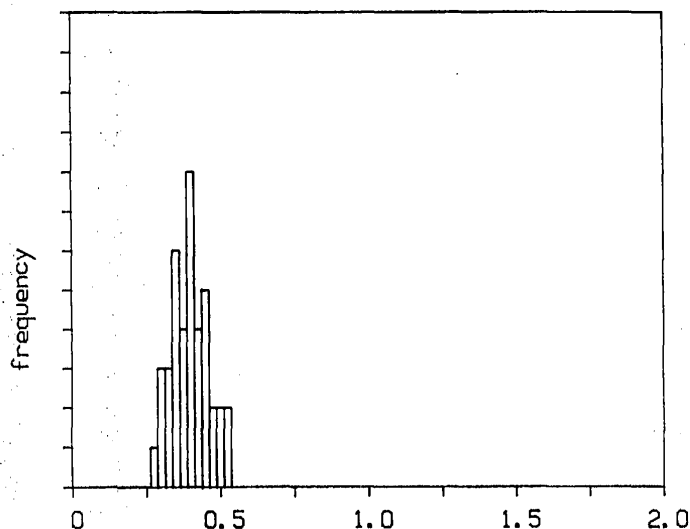
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PERCENT REFLECTANCE @ 546 nm

AMOCO ALBERT KALOA #1

ALASKA DEPTH: 1780-2080 ft
 COOK INLET

REFLECTANCE VALUES



.28	.31	.32	.32	.33	.34	.34
.35	.35	.35	.35	.36	.36	.38
.39	.39	.39	.40	.40	.40	.41
.41	.42	.42	.42	.43	.43	.43
.43	.46	.46	.47	.47	.47	.48
.49	.50	.52	.53	.53		

TAI;
 FLUORESCENCE: COMMON; ORANGE TO DARK
 ORANGE SPORINITE AND LIPTODETRINITE;
 BRIGHT YELLOW ? SOLIDIFIED BITUMEN.

OXIDATION RIMS; COMMON

NO OF MEAS. = 40

AVG. REFL. = .41

STD. DEV. = .06

COMMENTS: FEW WELL-PRESERVED PYRITE FRAMBOIDS

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PERCENT REFLECTANCE @ 546 nm

AMOCO ALBERT KALOA #1

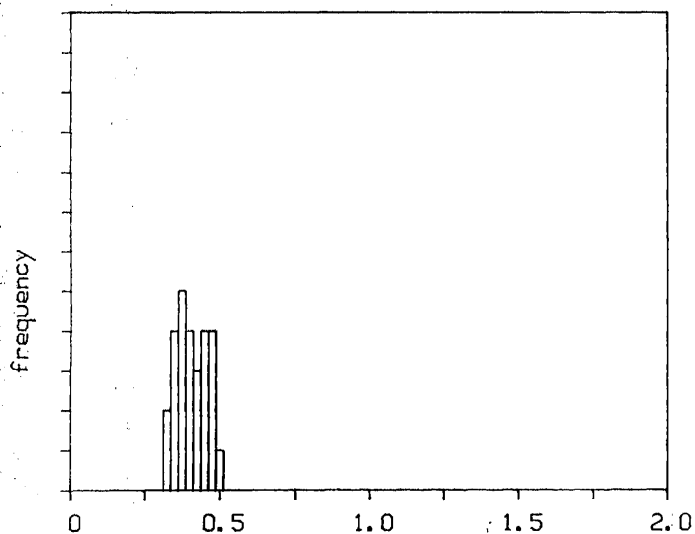
ALASKA

DEPTH: 2080-2380 ft

REFLECTANCE VALUES

COOK INLET

.33	.34	.35	.36	.37	.37	.38
.38	.39	.39	.39	.40	.40	.40
.41	.43	.43	.44	.45	.45	.46
.46	.48	.48	.48	.48	.51	



TAI.

FLUORESCENCE: COMMON, DARK YELLOW
LIPTODETRINITE, DULL ORANGE SPORINITE
AND BITUMINITE.

OXIDATION RIMS: COMMON TO ABUNDANT

NO OF MEAS. = 27

AVG. REFL. = .42

STD. DEV. = .05

COMMENTS: RARE "PSEUDO - GRAPHITE"

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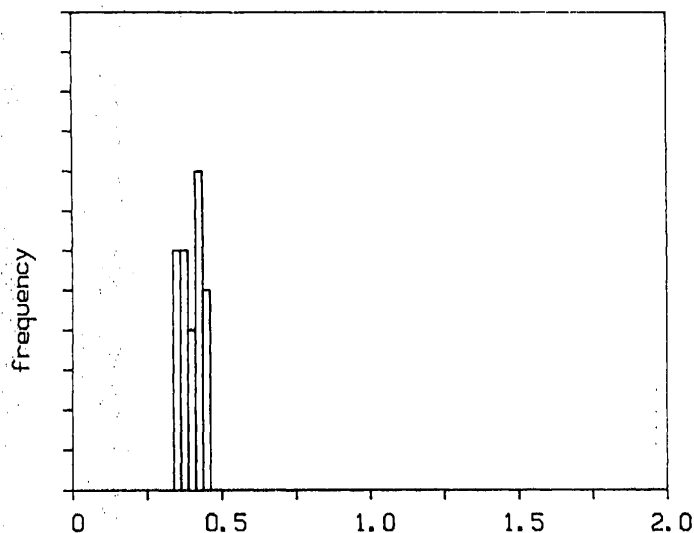
PERCENT REFLECTANCE @ 546 nm

AMOCO ALBERT KALOA #1

ALASKA DEPTH: 2380-2680 ft

COOK INLET

REFLECTANCE VALUES



.36	.36	.37	.37	.37	.37	.38
.39	.39	.39	.39	.39	.40	.41
.41	.41	.43	.43	.43	.44	.44
.44	.44	.44	.45	.46	.46	.47
.47						

TAI:

FLUORESCENCE: COMMON; DARK ORANGE
 SPORINITE AND LIPTODETRINITE; DARK YELLOW
 ? BITUMINITE.

OXIDATION RIMS: COMMON

NO OF MEAS. = 29

AVG. REFL. = .41

STD. DEV. = .03

COMMENTS: FEW WELL-PRESERVED PYRITE FRAMBOIDS

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PERCENT REFLECTANCE @ 546 nm

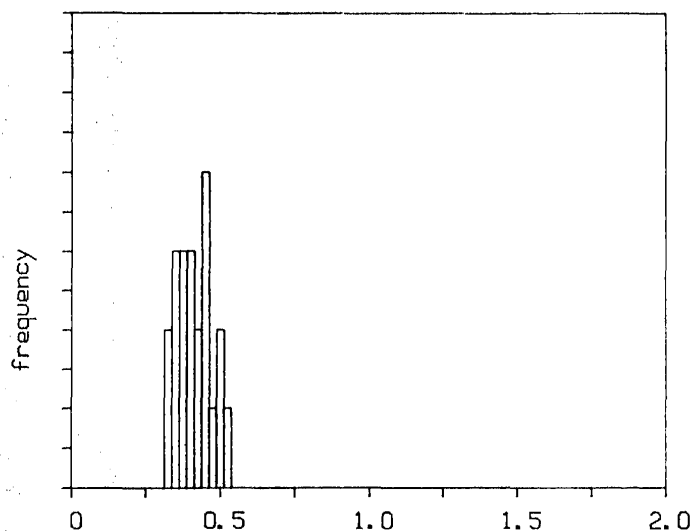
AMOCO ALBERT KALOA #1

ALASKA

DEPTH: 2680-2980 ft

COOK INLET

REFLECTANCE VALUES



NO OF MEAS. = 42

AVG. REFL. = .42

STD. DEV. = .06

COMMENTS:

.34	.34	.34	.34	.35	.35	.36
.36	.37	.37	.38	.39	.39	.39
.39	.39	.40	.40	.40	.40	.41
.41	.43	.43	.43	.44	.45	.45
.45	.45	.45	.46	.46	.47	.48
.48	.50	.51	.51	.52	.53	.53

TAI:

FLUORESCENCE: RARE - COMMON; ORANGE TO
 DARK ORANGE SPORINITE AND LIPTODETRINITE;
 DARK YELLOW ? SOLIDIFIED BITUMEN.

OXIDATION RIMS! COMMON

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PERCENT REFLECTANCE @ 546 nm

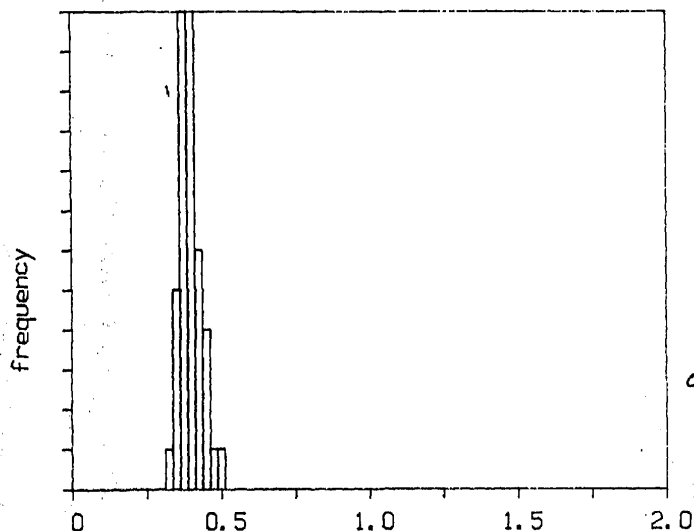
AMOCO ALBERT KALOA #1

ALASKA

DEPTH: 2980-3300 ft

REFLECTANCE VALUES

COOK INLET



.34	.35	.36	.37	.37	.37	.38
.38	.38	.38	.38	.39	.39	.39
.39	.39	.39	.39	.40	.40	.40
.40	.40	.40	.40	.40	.41	.41
.41	.42	.42	.42	.42	.42	.42
.43	.43	.44	.44	.44	.44	.45
.46	.46	.47	.49	.51		

TAI:
FLUORESCENCE: RARE TO COMMON; BRIGHT TO DULL
ORANGE SPORINITE AND LIPTOZETRINITE; BRIGHT AND
DULL YELLOW ? OIL DROPLETS; BRIGHT YELLOW
SOLIDIFIED BITUMEN.

OXIDATION RIMS; RARE TO COMMON.

NO OF MEAS. = 47

AVG. REFL. = .41

STD. DEV. = .03

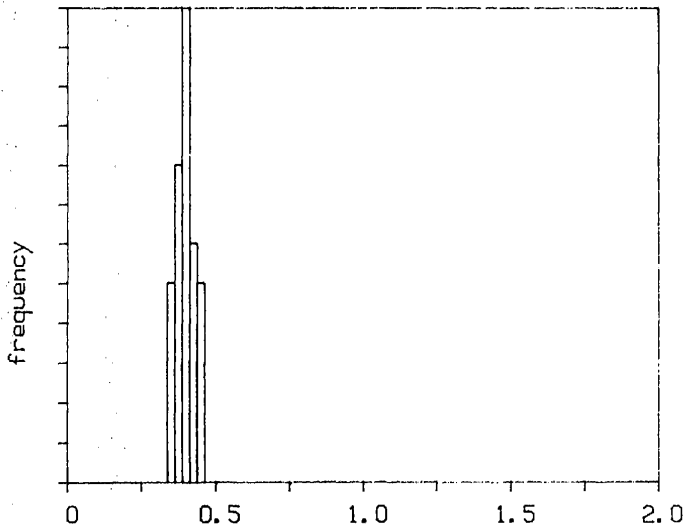
COMMENTS:

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PERCENT REFLECTANCE @ 546 nm

AMOCO ALBERT KALOA #1
 ALASKA DEPTH: 3300-3600 ft
 COOK INLET

REFLECTANCE VALUES



.35	.35	.35	.36	.37	.38	.38
.38	.39	.39	.39	.39	.39	.40
.40	.40	.40	.40	.40	.40	.40
.40	.40	.40	.41	.41	.41	.42
.42	.42	.42	.42	.42	.42	.43
.43	.43	.43	.44	.44	.45	.46
.46	.47	.47				

TAI:
 FLUORESCENCE: RARE; ORANGE TO DARK ORANGE,
 SPORINITE AND LIPTODETRINITE.

OXIDATION RIMS: RARE

NO OF MEAS. = 45
 AVG. REFL. = .41
 STD. DEV. = .03
 COMMENTS:

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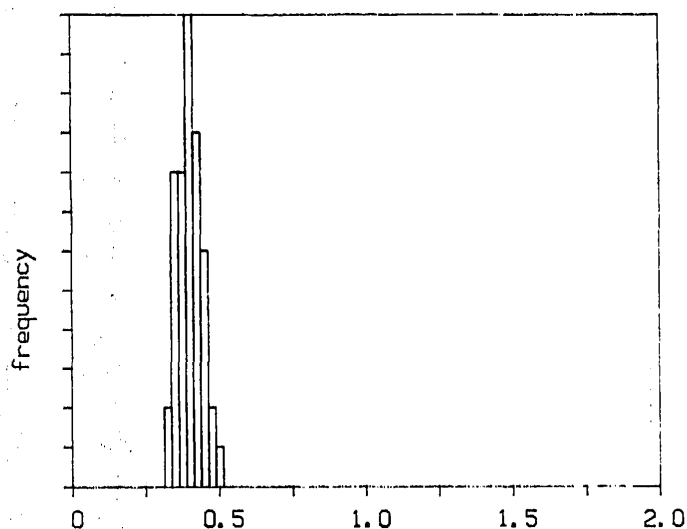
PERCENT REFLECTANCE @ 546 nm

AMOCO ALBERT KALOA #1

ALASKA DEPTH: 3950-4200 ft

COOK INLET

REFLECTANCE VALUES



.34	.34	.35	.35	.35	.36	.36
.36	.37	.37	.38	.38	.38	.38
.38	.38	.39	.39	.40	.40	.40
.40	.41	.41	.41	.41	.42	.42
.42	.42	.42	.43	.43	.43	.43
.43	.44	.44	.44	.44	.45	.45
.45	.46	.47	.47	.48	.49	.50

TAI:

FLUORESCENCE: RARE; DARK YELLOW-ORANGE
 SPORINITE AND LIPTODETRINITE.

OXIDATION RIMS: RARE

NO OF MEAS. = 49

AVG. REFL. = .41

STD. DEV. = .04

COMMENTS: FEW WELL-PRESERVED PYRITE FRAMBOIDS.

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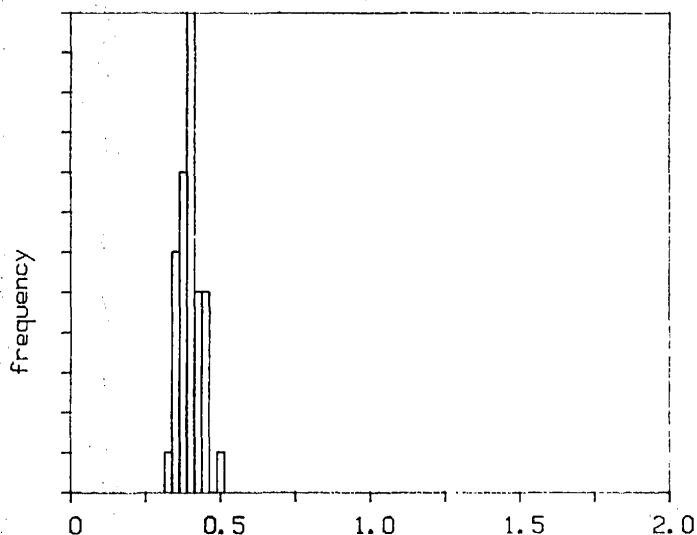
PERCENT REFLECTANCE @ 546 nm

AMOCO ALBERT KALOA #1

ALASKA DEPTH: 4200-4500 ft

COOK INLET

REFLECTANCE VALUES



.34	.36	.36	.36	.36	.37	.37
.38	.38	.38	.38	.39	.39	.39
.39	.40	.40	.40	.40	.40	.40
.40	.40	.40	.40	.41	.41	.41
.41	.41	.41	.41	.41	.41	.42
.42	.42	.43	.43	.44	.44	.44
.45	.45	.45	.45	.46	.52	

TAI;

FLUORESCENCE: RARE; BRIGHT TO DARK
YELLOW SPORINITE, LIPTOBETRINITE AND
BITUMINITE.

OXIDATION RIMS: COMMON

NO OF MEAS. = 48

AVG. REFL. = .41

STD. DEV. = .03

COMMENTS:

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PERCENT REFLECTANCE @ 546 nm

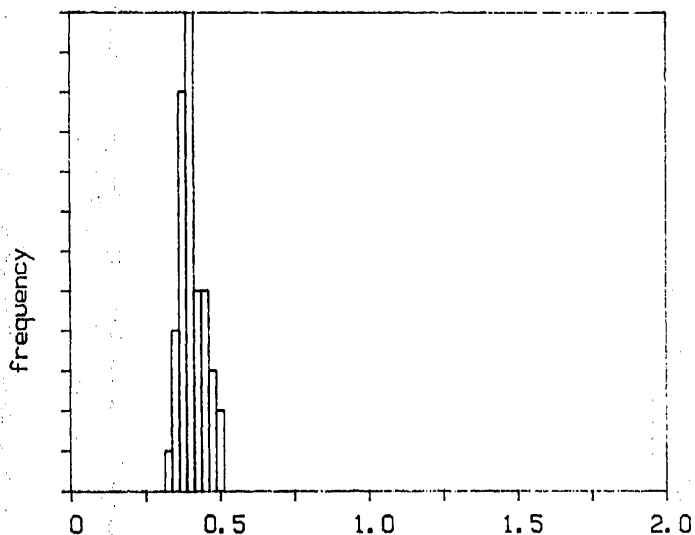
AMOCO ALBERT KALOA #1

ALASKA

DEPTH: 4500-4800 ft

REFLECTANCE VALUES

COOK INLET



.33	.35	.36	.36	.37	.38	.38
.38	.38	.38	.38	.39	.39	.39
.39	.40	.40	.40	.40	.41	.41
.41	.41	.41	.42	.42	.42	.42
.42	.43	.43	.43	.44	.44	.45
.45	.45	.45	.47	.48	.49	.49
.50	.50					

TAI:

FLUORESCENCE: RARE; DULL ORANGE SPORINITE
AND LIPTODETRINITE.

OXIDATION RIMS: Common

NO OF MEAS. = 44

AVG. REFL. = .42

STD. DEV. = .04

COMMENTS:

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PERCENT REFLECTANCE @ 546 nm

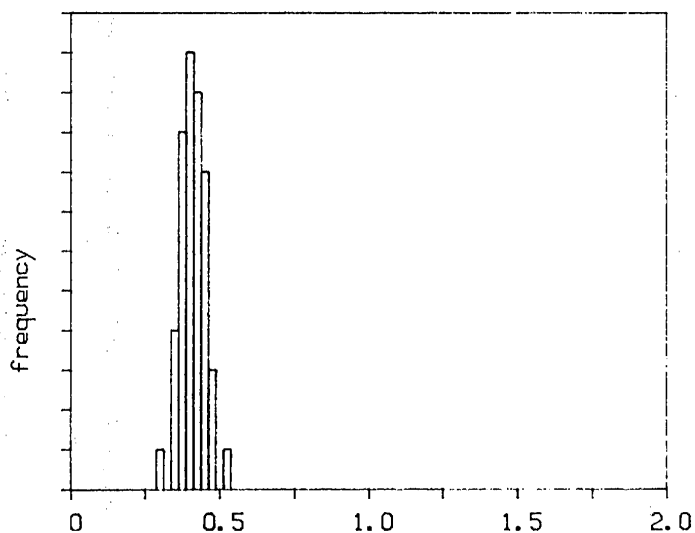
AMOCO ALBERT KALOA #1

ALASKA

DEPTH: 4800-5100 ft

REFLECTANCE VALUES

COOK INLET



NO OF MEAS. = 47

AVG. REFL. = .42

STD. DEV. = .04

COMMENTS:

.32	.35	.37	.37	.37	.38	.38
.38	.38	.38	.38	.38	.39	.39
.40	.40	.40	.41	.41	.41	.41
.41	.42	.42	.42	.43	.43	.43
.43	.43	.43	.43	.43	.44	.44
.45	.45	.45	.45	.45	.46	.46
.47	.48	.48	.49	.53		

TAI:

FLUORESCENCE: RARE; DULL YELLOW-ORANGE
SPORINITE AND LIPTODETRINITE; BRIGHT
YELLOW? SOLIDIFIED BITUMEN.

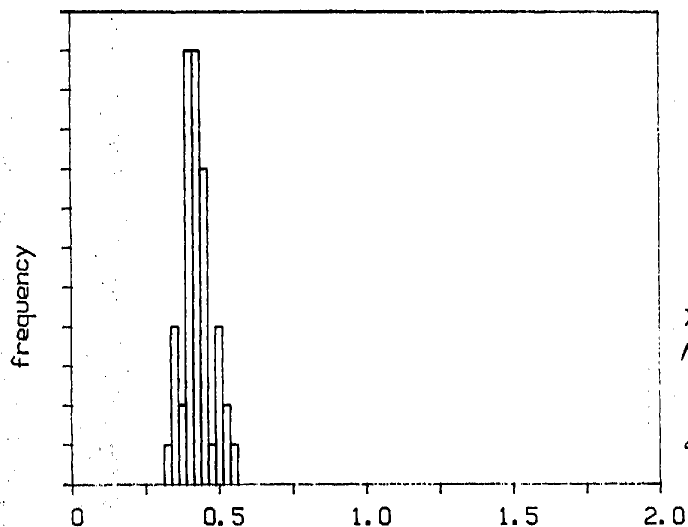
OXIDATION RIMS: RARE TO COMMON

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PERCENT REFLECTANCE @ 546 nm

AMOCO ALBERT KALOA #1
ALASKA DEPTH: 5100-5400 ft
COOK INLET

REFLECTANCE VALUES



.34	.36	.36	.37	.37	.38	.39
.40	.41	.41	.41	.41	.42	.42
.42	.42	.42	.42	.43	.43	.43
.43	.43	.43	.44	.44	.44	.44
.44	.45	.45	.46	.46	.46	.46
.47	.47	.48	.50	.50	.52	.52
.53	.54	.55				

TAI:

FLUORESCENCE; RARE; ORANGE TO DARK ORANGE
SPORINITE AND LIPIDETRINITE,

OXIDATION RIMS; COMMON TO ABUNDANT

NO OF MEAS. = 45
AVG. REFL. = .44
STD. DEV. = .05
COMMENTS:

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PERCENT REFLECTANCE @ 546 nm

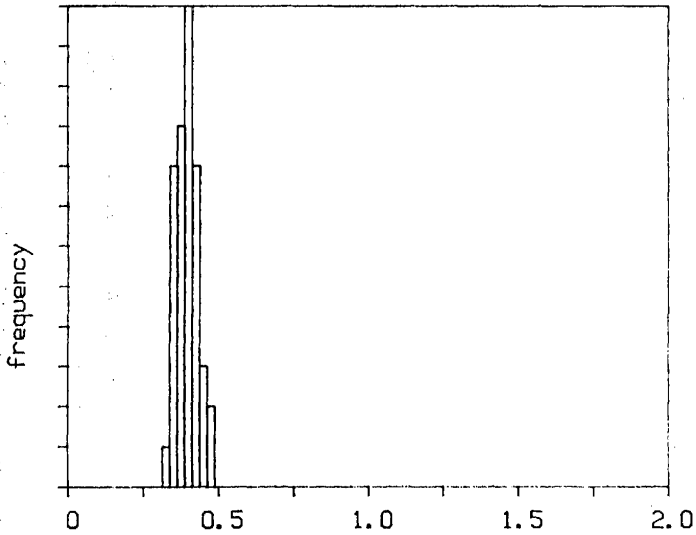
AMOCO ALBERT KALOA#1

ALASKA

DEPTH: 5400-5700 ft

REFLECTANCE VALUES

COOK INLET



.34	.36	.36	.36	.36	.37	.37
.37	.37	.38	.38	.38	.39	.39
.39	.39	.39	.39	.40	.40	.40
.40	.40	.40	.40	.40	.40	.41
.41	.41	.41	.41	.42	.42	.42
.42	.42	.43	.43	.43	.43	.43
.44	.44	.44	.45	.46	.47	.48
.49						

TAI;

FLUORESCENCE; RARE; ORANGE SPORINITE
AND LIPTODETRINITE.

OXIDATION RIMS; COMMON

NO OF MEAS. = 50

AVG. REFL. = .41

STD. DEV. = .03

COMMENTS:

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PERCENT REFLECTANCE @ 546 nm

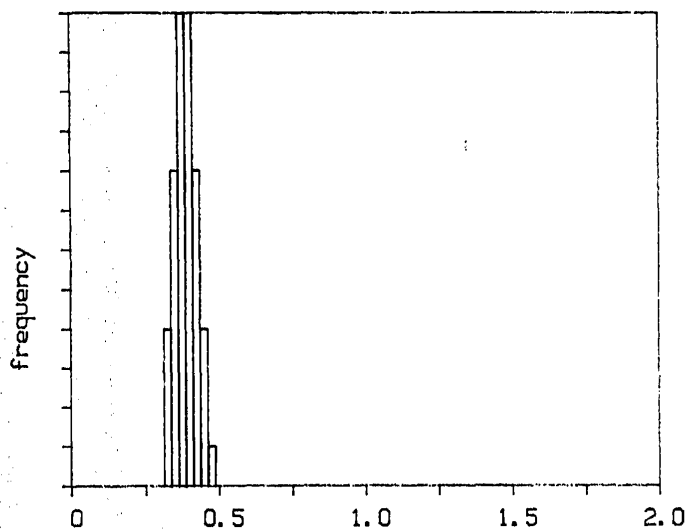
AMOCO ALBERT KALOA #1

ALASKA

DEPTH: 5700-6000 ft

COOK INLET

REFLECTANCE VALUES



.33	.34	.34	.34	.36	.36	.38
.36	.36	.37	.37	.37	.38	.38
.38	.38	.38	.38	.39	.39	.39
.39	.39	.39	.40	.40	.40	.40
.40	.40	.41	.41	.41	.41	.41
.41	.42	.42	.42	.43	.43	.43
.44	.44	.44	.44	.44	.45	.46
.46	.47	.48				

TAI:

FLUORESCENCE: RARE; YELLOW SPORINITE;
DARK YELLOW BITUMINITE,

OXIDATION RIMS; NONE

NO OF MEAS. = 52

AVG. REFL. = .4

STD. DEV. = .03

COMMENTS:

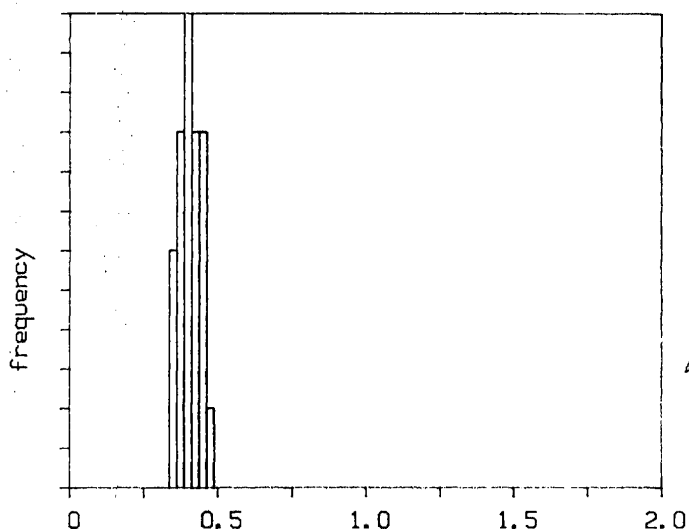
T. A. EDISON
335 FLORIDA ST.
VALLEJO, CA 94590
(707) 554-8687

PERCENT REFLECTANCE @ 546 nm

AMOCO ALBERT KALOA #1
ALASKA DEPTH: 6000-6300 ft
COOK INLET

REFLECTANCE VALUES

.35	.36	.37	.37	.37	.37	.38
.38	.38	.39	.39	.39	.39	.39
.39	.40	.40	.40	.41	.41	.41
.41	.41	.41	.41	.41	.42	.42
.42	.43	.43	.43	.43	.44	.44
.44	.44	.44	.45	.45	.45	.46
.46	.47	.47	.47	.47	.48	.48



NO OF MEAS. = 49
AVG. REFL. = .42
STD. DEV. = .03
COMMENTS:

TAI:
FLUORESCENCE: RARE; BRIGHT TO DARK YELLOW
SPORINITE AND LIPTODETRINITE.

OXIDATION RIMS: RARE

T. A. EDISON
335 FLORIDA ST.
VALLEJO, CA 94590
(707) 554-8687

PERCENT REFLECTANCE @ 546 nm

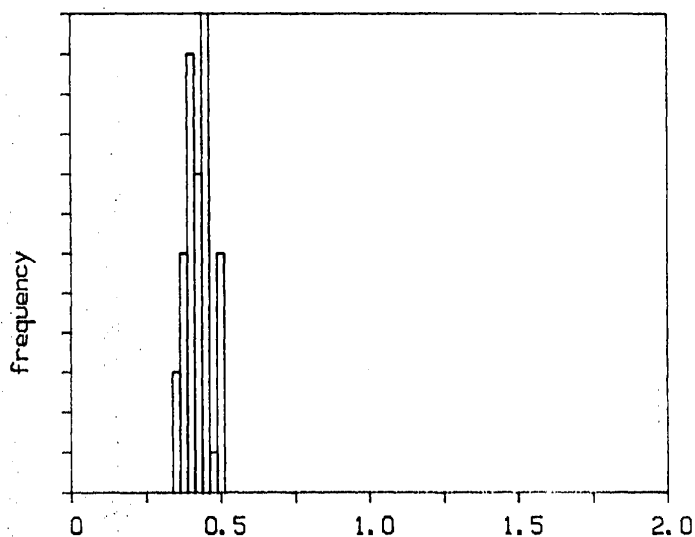
AMOCO ALBERT KALOA #1

ALASKA

DEPTH: 6300-6600 ft

REFLECTANCE VALUES

COOK INLET



NO OF MEAS. = 48

AVG. REFL. = .44

STD. DEV. = .04

COMMENTS:

.35	.36	.37	.38	.38	.38	.38
.39	.39	.40	.40	.41	.41	.41
.41	.41	.42	.42	.42	.42	.43
.43	.43	.43	.43	.44	.44	.44
.45	.45	.45	.45	.46	.46	.46
.46	.46	.46	.46	.46	.47	.49
.50	.51	.51	.51	.52	.52	

TAI:

FLUORESCENCE: RARE, BRIGHT TO DULL YELLOW
SPORINITE AND LIPTODETRINITE.

OXIDATION RMS: RARE

T. A. EDISON
335 FLORIDA ST.
VALLEJO, CA 94590
(707) 554-8687

PERCENT REFLECTANCE @ 546 nm

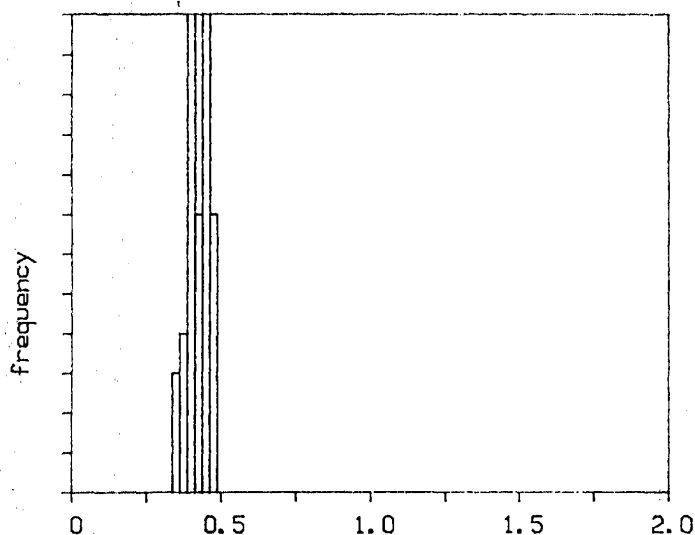
AMOCO ALBERT KALOA #1

ALASKA

DEPTH: 6600-6900 ft

REFLECTANCE VALUES

COOK INLET



.36	.37	.37	.38	.38	.38	.39
.40	.40	.40	.40	.41	.41	.41
.41	.41	.41	.41	.42	.42	.42
.43	.43	.43	.43	.43	.44	.44
.45	.45	.45	.45	.45	.45	.45
.45	.46	.46	.46	.47	.47	.47
.47	.47	.48	.48	.48	.48	.49
.49	.49					

TAI:

FLUORESCENCE: RARE; ORANGE LIPTODETRINITE
AND BITUMINITE.

OXIDATION RIMS: RARE

NO OF MEAS. = 51

AVG. REFL. = .43

STD. DEV. = .03

COMMENTS:

T. A. EDISON
 335 FLORIDA ST.
 VALLEJO, CA 94590
 (707) 554-8887

PERCENT REFLECTANCE @ 546 nm

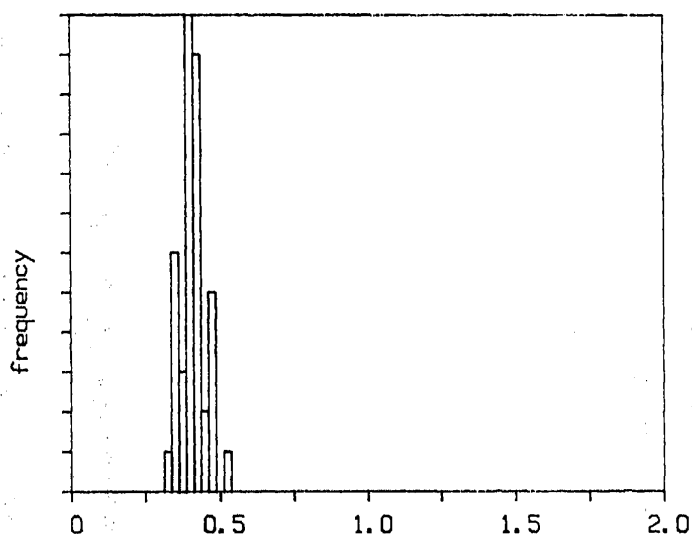
AMOCO ALBERT KALOA #1

ALASKA

DEPTH: 6900-7200 ft

COOK INLET

REFLECTANCE VALUES



.34	.35	.35	.36	.37	.37	.37
.38	.38	.39	.40	.40	.40	.40
.40	.40	.40	.40	.41	.41	.41
.41	.41	.41	.41	.41	.42	.42
.42	.42	.43	.43	.43	.43	.44
.44	.44	.44	.44	.44	.44	.45
.46	.48	.48	.48	.49	.49	.53

TAI:
 FLUORESCENCE: RARE; YELLOW TO ORANGE
 LIPTO DETRINITE,

OXIDATION RIMS: RARE

NO OF MEAS. = 49

AVG. REFL. = .42

STD. DEV. = .04

COMMENTS:

T. A. EDISC
335 FLORIDA S
VALLEJO, CA 94
(707) 554-8687

PERCENT REFLECTANCE @ 546 nm

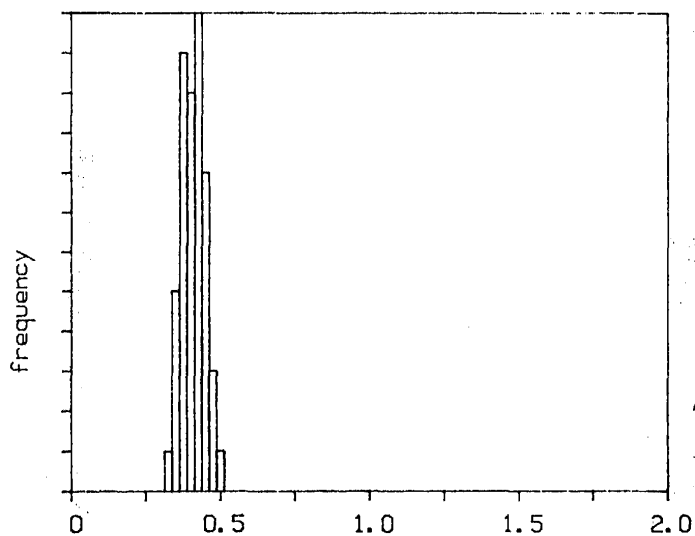
AMOCO ALBERT KALOA #1

ALASKA

DEPTH: 7200-7500 ft

COOK INLET

REFLECTANCE VALUES



.33	.36	.37	.37	.37	.37	.38
.38	.38	.38	.38	.38	.39	.39
.39	.39	.39	.40	.40	.41	.41
.42	.42	.42	.42	.42	.42	.43
.43	.43	.43	.43	.43	.43	.43
.43	.44	.44	.44	.44	.45	.45
.45	.45	.46	.46	.46	.47	.49
.49	.49	.50				

TAI:

FLUORESCENCE: RARE; ORANGE TO DARK ORANGE
SPORINITE AND LIPTODETRINITE.

OXIDATION RIMS; RARE

NO OF MEAS. = 52

AVG. REFL. = .42

STD. DEV. = .04

COMMENTS:

T. A. EDISON
335 FLORIDA ST.
VALLEJO, CA 94591
(707) 554-8687

PERCENT REFLECTANCE @ 546 nm

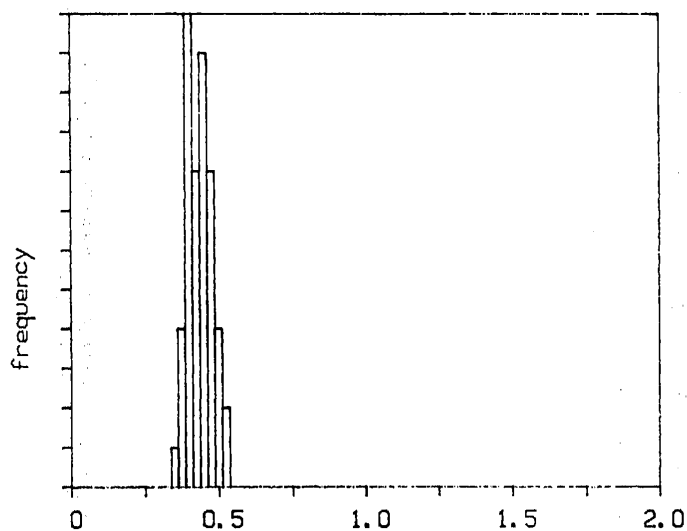
AMOCO ALBERT KALOA #1

ALASKA

DEPTH: 7500-7800 ft

REFLECTANCE VALUES

COOK INLET



.36	.38	.39	.39	.39	.40	.40
.40	.40	.41	.41	.41	.42	.42
.42	.42	.42	.42	.43	.43	.43
.43	.44	.44	.44	.44	.45	.45
.45	.45	.45	.45	.46	.46	.47
.47	.47	.48	.48	.48	.48	.49
.49	.49	.49	.50	.50	.51	.52
.53	.54					

TAI:

FLUORESCENCE: RARE, ORANGE LIPTODETRINITE

OXIDATION RIMS: RARE

NO OF MEAS. = 51

AVG. REFL. = .45

STD. DEV. = .04

COMMENTS:

T. A. EDISC
335 FLORIDA
VALLEJO, CA 94
(707) 554-8687

PERCENT REFLECTANCE @ 546 nm

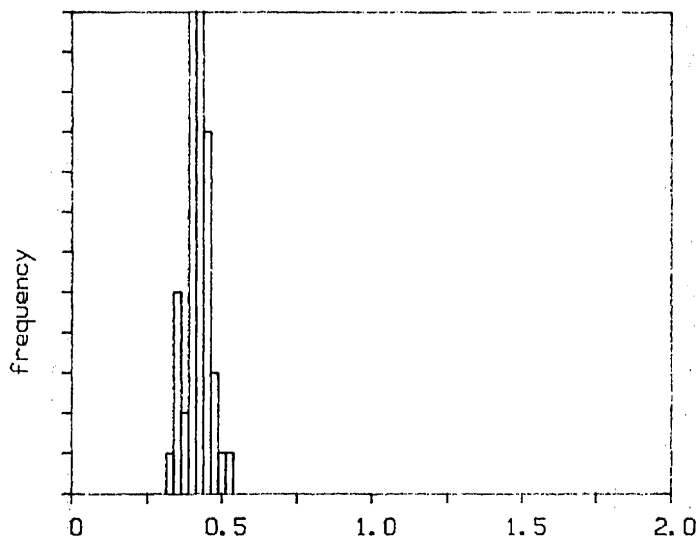
AMOCO ALBERT KALOA #1

ALASKA

DEPTH: 7800-8130 ft

REFLECTANCE VALUES

COOK INLET



.34	.36	.36	.36	.37	.37	.38
.39	.40	.40	.41	.41	.41	.41
.42	.42	.42	.42	.42	.42	.42
.42	.43	.43	.43	.43	.43	.43
.43	.43	.43	.43	.43	.44	.44
.44	.44	.44	.44	.45	.45	.45
.46	.46	.46	.46	.47	.47	.48
.48	.49	.50	.53			

TAI:

FLUORESCENCE: RARE; DARK YELLOW TO ORANGE
LIPTODETRINITE.

OXIDATION RIMS: RARE

NO OF MEAS. = 53

AVG. REFL. = .43

STD. DEV. = .04

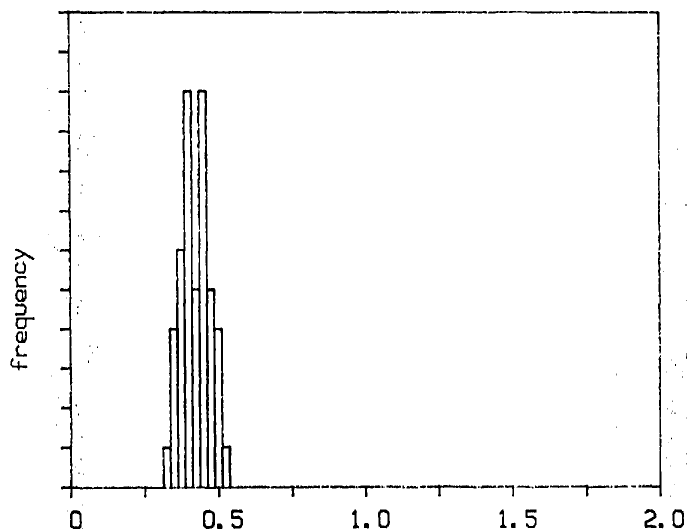
COMMENTS:

T. A. EDISON
335 FLORIDA ST.
VALLEJO, CA 94591
(707) 554-8687

PERCENT REFLECTANCE @ 546 nm

AMOCO ALBERT KALOA #1
ALASKA COOK INLET

DEPTH: R/D #1 7500-7800 ^{ft.} REFLECTANCE VALUES



.33	.36	.36	.37	.37	.38	.38
.38	.39	.39	.39	.40	.41	.41
.41	.41	.42	.42	.42	.42	.42
.43	.43	.43	.44	.44	.45	.45
.45	.45	.45	.45	.45	.46	.46
.46	.48	.48	.48	.48	.49	.51
.51	.52	.52	.54			

TAI:
FLUORESCENCE: RARE; YELLOW TO ORANGE
SPORINITE AND LIPTODETRINITE; YELLOW
? SOLIDIFIED BITUMEN.

OXIDATION RIMS: RARE

NO OF MEAS. = 46
AVG. REFL. = .43
STD. DEV. = .05
COMMENTS:

T. A. EDISON
335 FLORIDA ST
VALLEJO, CA 94591
(707) 554-8687

PERCENT REFLECTANCE @ 546 nm

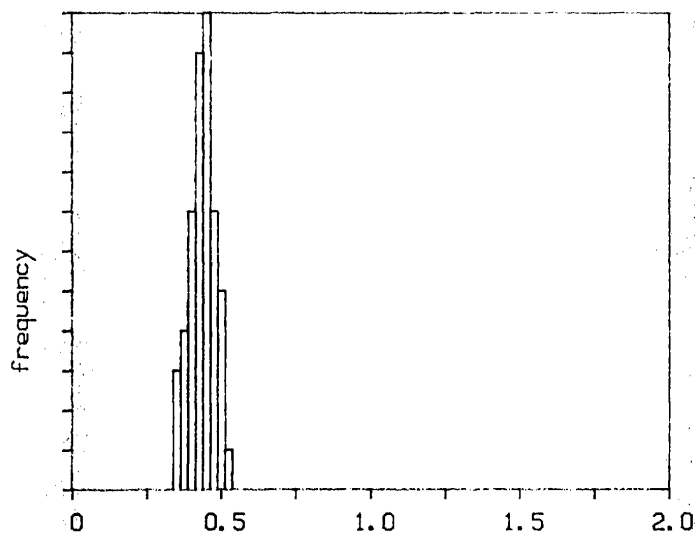
AMOCO ALBERT KALOA #1

ALASKA

DEPTH: 7800-8100 #1 ft

REFLECTANCE VALUES

COOK INLET



.36	.36	.37	.38	.38	.38	.39
.40	.41	.41	.42	.42	.42	.42
.43	.43	.43	.43	.43	.44	.44
.44	.44	.44	.44	.45	.45	.45
.45	.45	.45	.45	.45	.46	.46
.47	.47	.48	.48	.48	.48	.49
.49	.49	.50	.50	.50	.52	.52
.53						

TAI:

FLUORESCENCE: RARE; DARK ORANGE LIPTODETRIN.
BRIGHT YELLOW ? SOLIDIFIED BITUMEN.

OXIDATION RIMS: RARE

NO OF MEAS. = 50

AVG. REFL. = .44

STD. DEV. = .04

COMMENTS:

T. A. EDISON
 935 FLORIDA ST.
 VALLEJO, CA 94590
 (707) 554-8687

PERCENT REFLECTANCE @ 546 nm

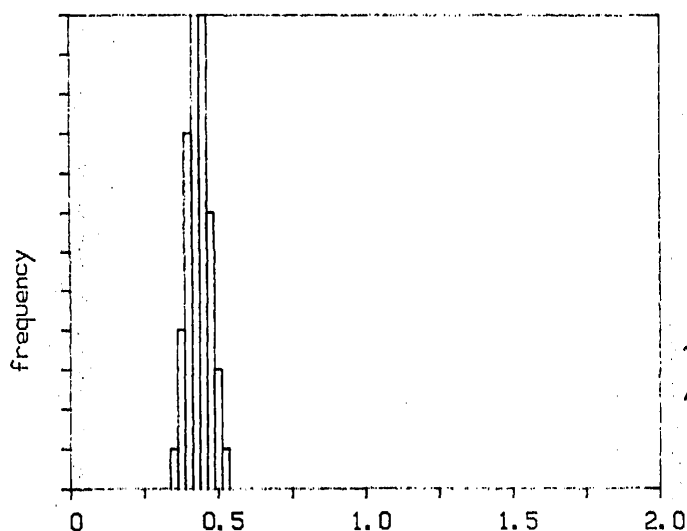
AMOCO ALBERT KALOA #1 *R/D*

ALASKA

DEPTH: #1 8100-8480 ft

REFLECTANCE VALUES

COOK INLET



.37	.38	.39	.39	.39	.40	.40
.41	.41	.42	.42	.42	.42	.42
.43	.43	.43	.43	.43	.43	.43
.43	.43	.44	.44	.44	.44	.45
.45	.45	.46	.46	.46	.46	.47
.47	.47	.47	.47	.48	.48	.48
.49	.49	.49	.49	.52	.52	.52
.54						

TAI:

*FLUORESCENCE: RARE; DARK ORANGE
 LIPTODETRINATE, BRIGHT YELLOW ? SOLIDIFIED
 BITUMEN.*

OXIDATION RIMS: RARE TO COMMON

NO OF MEAS. = 50
 AVG. REFL. = .45
 STD. DEV. = .04
 COMMENTS:

T. A. EDISON
335 FLORIDA ST.
VALLEJO, CA 9458
(707) 554-8887

PERCENT REFLECTANCE @ 546 nm

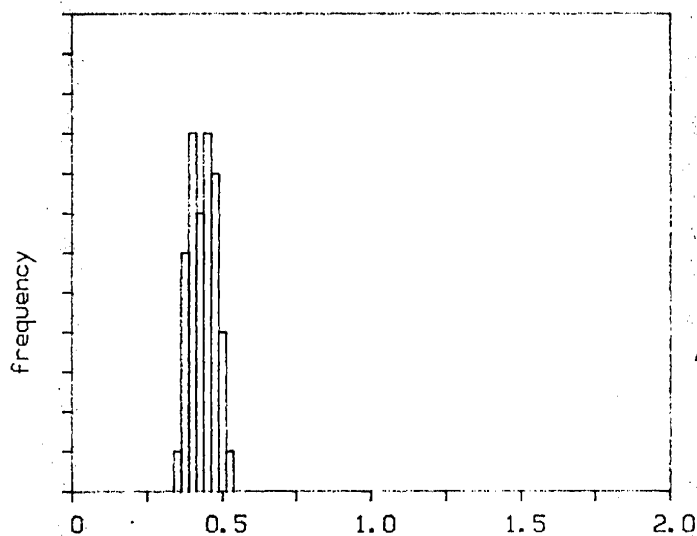
AMOCO ALBERT KALOA #1 *R/D*

ALASKA

DEPTH: #2 8268-8500 ft

REFLECTANCE VALUES

COOK INLET



NO OF MEAS. = 45

AVG. REFL. = .44

STD. DEV. = .04

COMMENTS:

.37	.38	.38	.39	.39	.39	.39
.41	.41	.41	.41	.41	.41	.42
.42	.42	.43	.43	.43	.44	.44
.44	.44	.45	.45	.46	.46	.46
.46	.46	.46	.47	.48	.48	.48
.48	.48	.49	.49	.49	.50	.50
.50	.52	.53				

TAI!

FLUORESCENCE: RARE; DARK ORANGE SPORINITE;
BRIGHT YELLOW ? SOLIDIFIED BITUMEN.

OXIDATION RIMS; RARE

T. A. EDISON
 335 FLORIDA ST.
 VALLEJO, CA 94590
 (707) 554-8687

PERCENT REFLECTANCE @ 546 nm

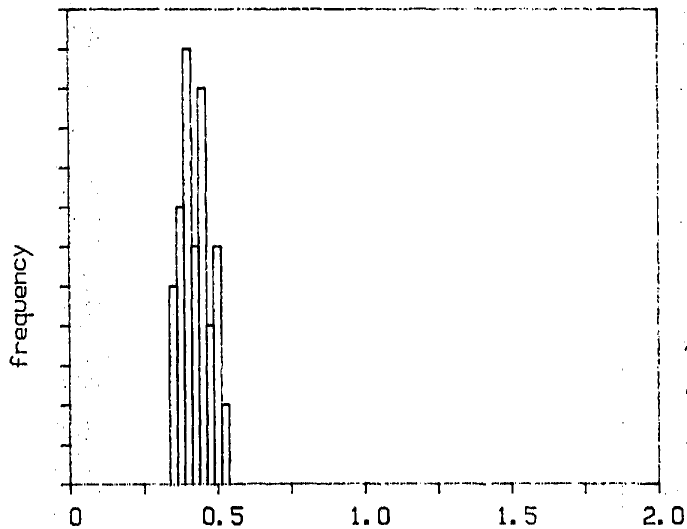
AMOCO ALBERT KALOA #1 *R/D*

ALASKA

DEPTH: #2 8500-8800 ft

REFLECTANCE VALUES

COOK INLET



.35	.36	.36	.37	.37	.38	.38
.38	.38	.38	.39	.39	.40	.40
.40	.40	.41	.41	.41	.41	.42
.42	.42	.43	.43	.43	.43	.43
.44	.45	.45	.45	.46	.46	.46
.47	.47	.47	.47	.48	.48	.48
.49	.50	.50	.51	.51	.52	.52
.54	.54					

TAI:

FLUORESCENCE: RARE, ORANGE SPORINITE AND
 LIPTO DETRINITE, DULL YELLOW BITUMINITE,

OXIDATION RIMS: RARE

NO OF MEAS. = 51

AVG. REFL. = .44

STD. DEV. = .05

COMMENTS:

T. A. EDISON
 335 FLORIDA ST.
 VALLEJO, CA 94590
 (707) 554-8687

PERCENT REFLECTANCE @ 546 nm

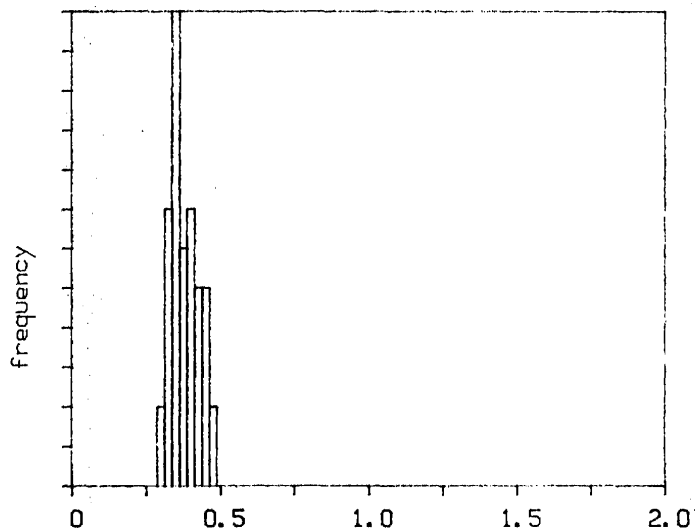
AMOCO ALBERT KALOA #1 *R/D*

ALASKA

DEPTH: #2 8800-9100 ft

COOK INLET

REFLECTANCE VALUES



.32	.32	.33	.33	.33	.34	.34
.34	.34	.35	.35	.35	.35	.35
.35	.36	.36	.36	.36	.36	.37
.37	.37	.37	.38	.38	.38	.38
.39	.39	.40	.40	.40	.41	.41
.42	.42	.43	.43	.43	.44	.44
.45	.46	.46	.47	.47	.48	.49

TAI!

FLUORESCENCE: RARE; ORANGE BITUMINITE; YELLOW
 OIL DROPLET; BRIGHT YELLOW ? SOLIDIFIED
 BITUMEN.

OXIDATION RIMS: NONE

NO OF MEAS. = 49

AVG. REFL. = .39

STD. DEV. = .05

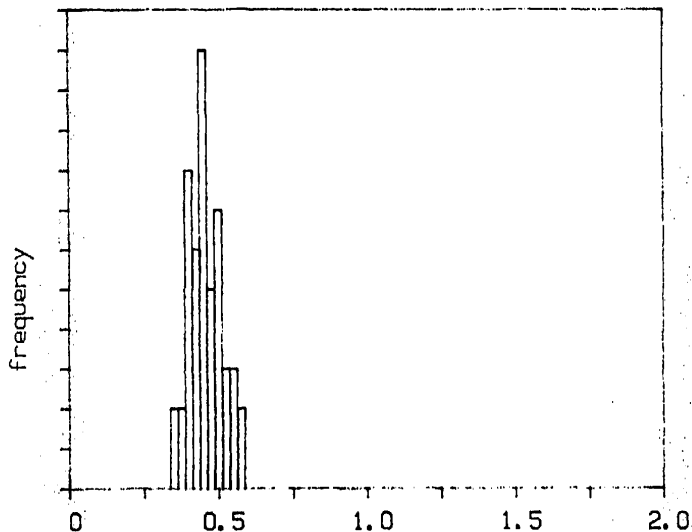
COMMENTS:

T. A. EDISON
335 FLORIDA ST
VALLEJO, CA 94591
(707) 554-8887

PERCENT REFLECTANCE @ 546 nm

AMOCO ALBERT KALOA #1 *R/D*

ALASKA DEPTH: #2 9100-9400 ft REFLECTANCE VALUES
COOK INLET



NO OF MEAS. = 49

AVG. REFL. = .47

STD. DEV. = .06

COMMENTS:

.37	.37	.39	.39	.40	.40	.40
.41	.41	.41	.41	.42	.43	.43
.43	.43	.44	.44	.45	.45	.45
.45	.46	.46	.46	.46	.47	.47
.47	.48	.48	.48	.48	.49	.50
.50	.50	.51	.51	.52	.52	.53
.54	.54	.56	.57	.57	.59	.59

TAI:

FLOURESCENCE: RARE TO COMMON; ORANGE TO
DARK ORANGE LIPTO DETRINITE, DOLL YELLOW
BITUMINITE; YELLOW SOLIDIFIED BITUMEN,

OXIDATION RIMS; RARE TO COMMON,

T. A. EDISON
335 FLORIDA ST.
VALLEJO, CA 94590
(707) 554-8687

PERCENT REFLECTANCE @ 546 nm

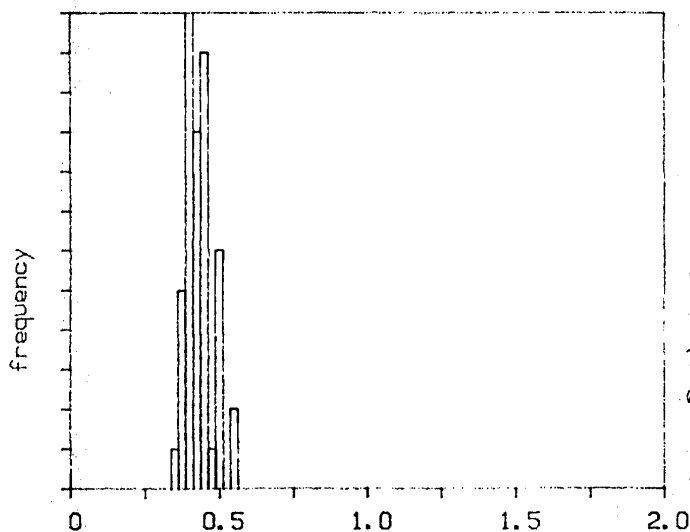
AMOCO ALBERT KALOA #1 R/D

ALASKA

DEPTH: #2 9400-9700 ft

REFLECTANCE VALUES

COOK INLET



.35	.38	.39	.39	.39	.39	.40
.40	.40	.40	.41	.41	.41	.41
.42	.42	.42	.42	.42	.42	.42
.42	.43	.43	.43	.43	.44	.44
.44	.44	.44	.45	.45	.45	.45
.45	.46	.46	.46	.46	.46	.47
.48	.50	.50	.50	.50	.51	.52
.55	.56					

TAI!

FLUORESCENCE; RARE; DARK YELLOW-ORANGE
SPORINITE, LIPTODETRINITE AND BITUMINITE;
BRIGHT YELLOW ? SOLIDIFIED BITUMEN.

OXIDATION RIMS; Common

NO OF MEAS. = 51

AVG. REFL. = .44

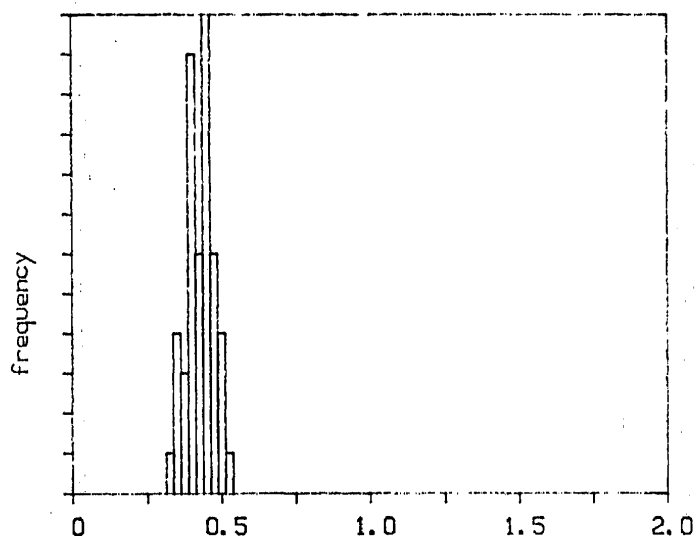
STD. DEV. = .04

COMMENTS:

T. A. EDISON
335 FLORIDA ST.
VALLEJO, CA 94590
(707) 554-8687

PERCENT REFLECTANCE @ 546 nm

AMOCO ALBERT KALOA #1 *R/D*
ALASKA DEPTH: #2 9700-10000 ft REFLECTANCE VALUES
COOK INLET



.34	.37	.37	.37	.37	.38	.38
.39	.40	.40	.40	.40	.40	.40
.40	.41	.42	.42	.42	.43	.43
.44	.44	.44	.44	.45	.45	.45
.45	.46	.46	.46	.46	.46	.46
.47	.47	.47	.47	.47	.47	.47
.48	.48	.48	.49	.49	.49	.50
.50	.51	.52	.53			

TAI:

FLUORESCENCE: RARE TO COMMON; DARK YELLOW
SPORINITE, LIPTODETRINITE AND BITUMINITE;
BRIGHT YELLOW ? SOLIDIFIED BITUMEN.

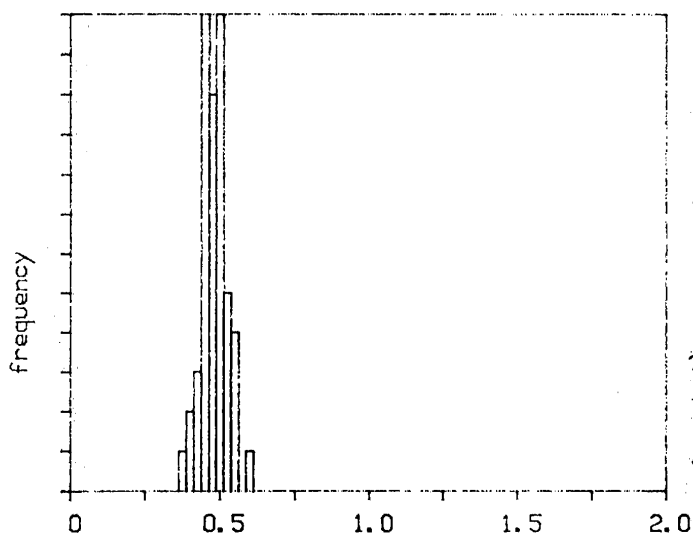
OXIDATION RIMS: RARE

NO OF MEAS. = 53
AVG. REFL. = .44
STD. DEV. = .04
COMMENTS:

T. A. EDISON
 335 FLORIDA ST.
 VALLEJO, CA 94590
 (707) 554-8687

PERCENT REFLECTANCE @ 546 nm

AMOCO ALBERT KALOA #1 *R/D*
 ALASKA DEPTH: #2 10000-10300 ft REFLECTANCE VALUES
 COOK INLET



.38	.40	.42	.43	.44	.44	.45
.45	.45	.46	.46	.46	.46	.46
.47	.47	.47	.47	.47	.47	.47
.48	.48	.48	.48	.49	.49	.49
.49	.49	.49	.50	.50	.50	.50
.50	.50	.50	.51	.51	.51	.52
.52	.53	.53	.54	.54	.54	.55
.57	.57	.57	.62			

TAI:
 FLUORESCENCE: RARE; DARK YELLOW BITUMINITE

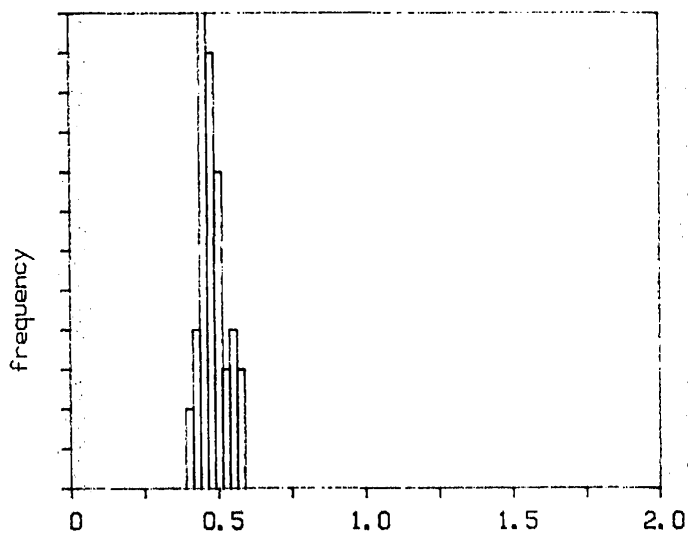
OXIDATION RMS; RARE-COMMON

NO OF MEAS. = 53
 AVG. REFL. = .49
 STD. DEV. = .04
 COMMENTS:

T. A. EDISON
 335 FLORIDA ST.
 VALLEJO, CA 94590
 (707) 554-8687

PERCENT REFLECTANCE @ 546 nm

AMOCO ALBERT KALOA #1 *R/D*
 ALASKA DEPTH: #2 10300-10600 ft REFLECTANCE VALUES
 COOK INLET



NO OF MEAS. = 48
 AVG. REFL. = .49
 STD. DEV. = .04
 COMMENTS:

.41	.42	.43	.43	.43	.44	.45
.45	.45	.45	.46	.46	.46	.46
.46	.47	.47	.47	.47	.48	.48
.48	.48	.49	.49	.49	.49	.49
.49	.49	.50	.50	.50	.50	.50
.51	.52	.52	.53	.53	.53	.55
.55	.55	.56	.58	.58	.58	

TAI:

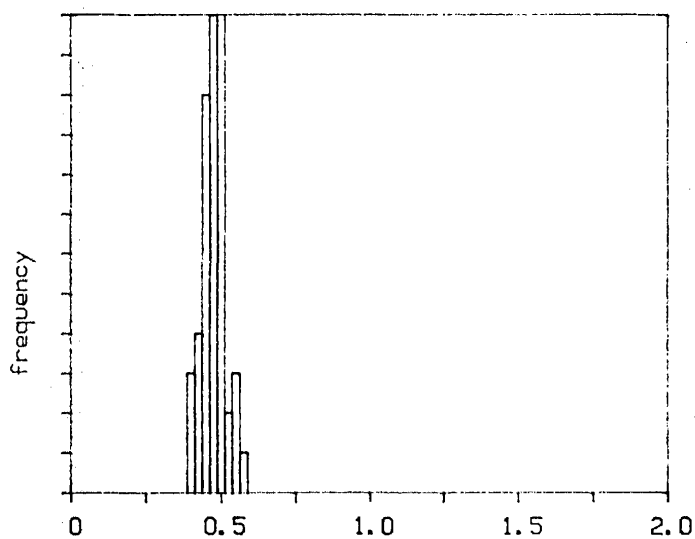
FLUORESCENCE: RARE; DARK YELLOW-ORANGE
 SPORINITE AND LIPTO DETRINITE,

OXIDATION RIMS: COMMON

T. A. EDISON
335 FLORIDA ST.
VALLEJO, CA 94590
(707) 554-8687

PERCENT REFLECTANCE @ 546 nm

AMOCO ALBERT KALOA #1 *R/D*
ALASKA DEPTH: #2 10600-10900 ft REFLECTANCE VALUES
COOK INLET



NO OF MEAS. = 50

AVG. REFL. = .49

STD. DEV. = .04

COMMENTS: RARE "PSEUDO-GRAPHITE"

.41	.42	.42	.43	.43	.43	.44
.45	.45	.46	.46	.46	.46	.46
.47	.47	.47	.48	.48	.48	.48
.48	.48	.49	.49	.49	.49	.49
.49	.50	.50	.50	.50	.50	.51
.51	.51	.51	.51	.51	.51	.52
.52	.52	.53	.54	.55	.56	.56
.58						

TAI:

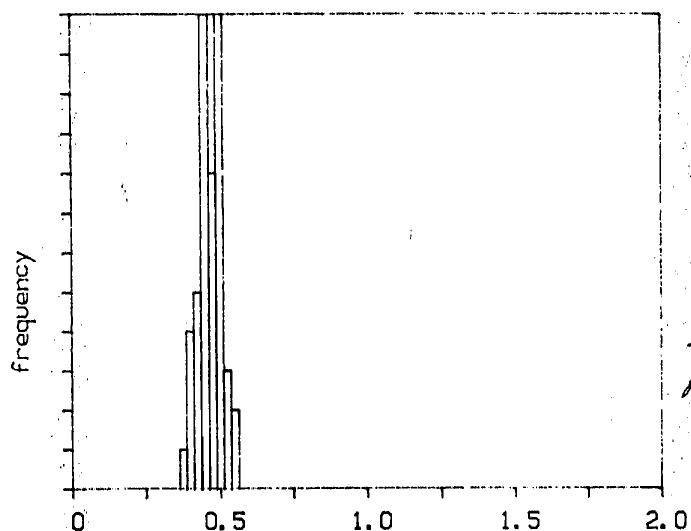
FLUORESCENCE: RARE; DULL DARK ORANGE
SPORINITE.

OXIDATION RIMS: RARE

T. A. EDISON
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 VALLEJO, CA 94590
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PERCENT REFLECTANCE @ 546 nm

AMOCO ALBERT KALOA #1 *R/D*
 ALASKA DEPTH: #2 10900-11200 ft REFLECTANCE VALUES
 COOK INLET



.38	.41	.41	.42	.42	.43	.43
.44	.44	.44	.45	.45	.45	.45
.45	.46	.46	.46	.47	.47	.47
.47	.48	.48	.48	.49	.49	.49
.49	.49	.50	.50	.50	.50	.50
.50	.51	.51	.51	.51	.52	.52
.52	.52	.52	.53	.53	.53	.56
.57						

TAI:
 FLUORESCENCE: RARE; DARK YELLOW SPORINITE
 AND LIPTODETRINITE.

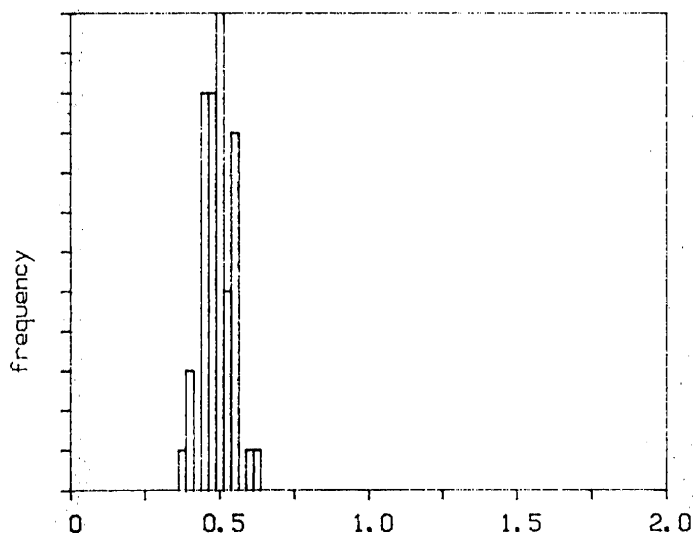
OXIDATION RIMS: RARE

NO OF MEAS. = 50
 AVG. REFL. = .48
 STD. DEV. = .04
 COMMENTS:

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335 FLORIDA ST.
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PERCENT REFLECTANCE @ 546 nm

AMOCO ALBERT KALOA #1 *R/D*
ALASKA DEPTH: #2 11200-11500 ft REFLECTANCE VALUES
COOK INLET



.39	.41	.41	.42	.45	.45	.45
.46	.46	.46	.47	.47	.47	.47
.48	.48	.48	.48	.48	.48	.49
.49	.49	.49	.50	.50	.50	.50
.50	.50	.50	.50	.51	.51	.51
.52	.52	.53	.53	.53	.54	.54
.55	.55	.55	.55	.55	.56	.57
.57	.57	.60	.63			

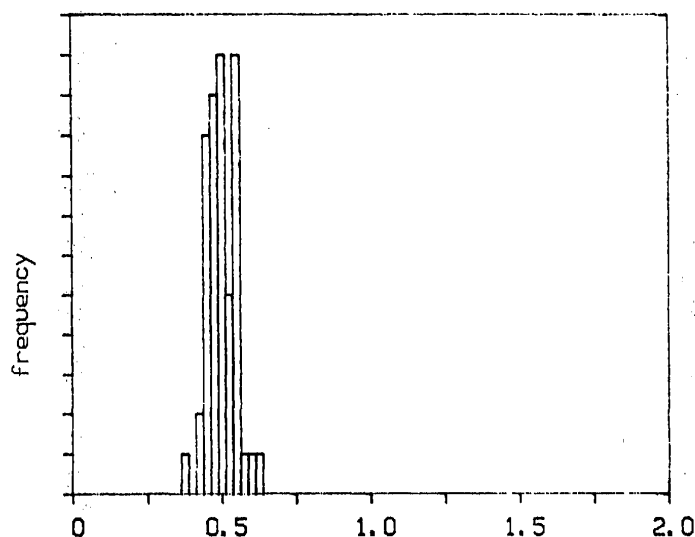
TAI!
FLUORESCENCE: RARE, DARK ORANGE SPORINITE.
OXIDATION RIMS; COMMON

NO OF MEAS. = 53
AVG. REFL. = .5
STD. DEV. = .05
COMMENTS:

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PERCENT REFLECTANCE @ 546 nm

AMOCO ALBERT KALOA #1 *R/D*
ALASKA DEPTH: #2 11500-11800 ft REFLECTANCE VALUES
COOK INLET



.38	.43	.44	.45	.45	.46	.46
.47	.47	.47	.47	.47	.48	.48
.48	.48	.49	.49	.49	.49	.49
.49	.50	.50	.50	.50	.50	.51
.51	.52	.52	.52	.52	.53	.53
.54	.54	.54	.55	.55	.55	.56
.56	.56	.56	.57	.57	.57	.57
.58	.60	.63				

TAI!
FLUORESCENCE! RARE; DARK YELLOW SPORINITE;
BRIGHT YELLOW ? SOLIDIFIED BITUMEN.

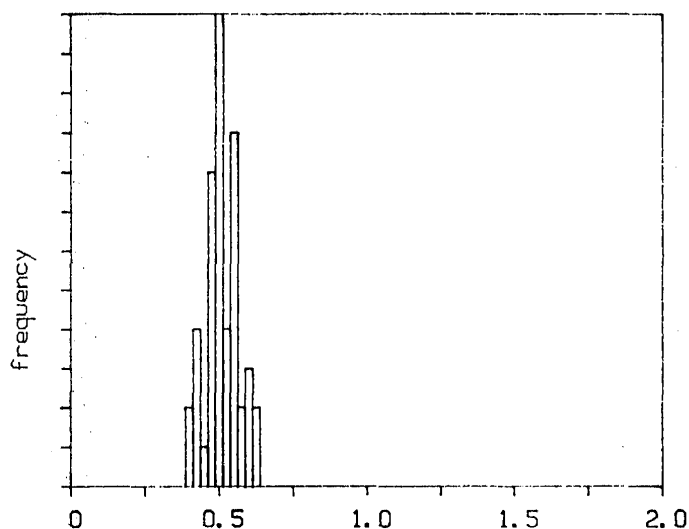
OXIDATION RIMS : COMMON

NO OF MEAS. = 52
AVG. REFL. = .51
STD. DEV. = .05
COMMENTS:

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PERCENT REFLECTANCE @ 546 nm

AMOCO ALBERT KALOA #1 *R/D*
 ALASKA DEPTH: #2 11800-12100 ft REFLECTANCE VALUES
 COOK INLET



NO OF MEAS. = 49
 AVG. REFL. = .52
 STD. DEV. = .05
 COMMENTS:

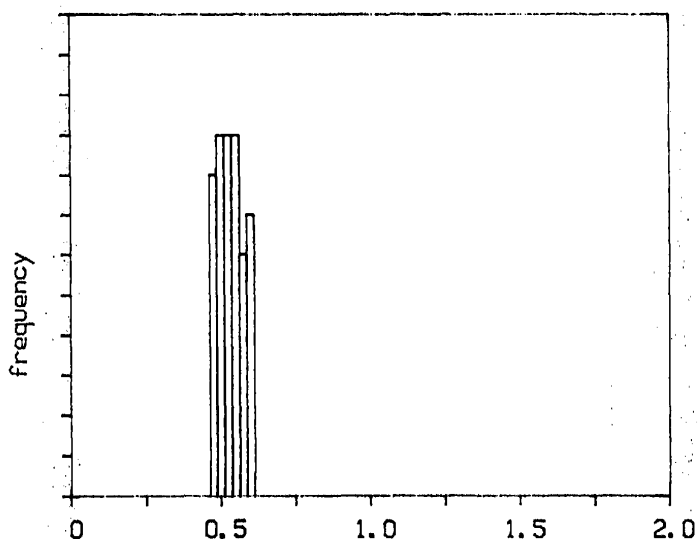
.41	.41	.43	.44	.44	.44	.45
.48	.48	.48	.48	.49	.49	.49
.49	.50	.50	.50	.50	.50	.51
.51	.51	.52	.52	.52	.52	.52
.52	.53	.53	.53	.54	.55	.55
.55	.55	.56	.56	.56	.57	.57
.59	.59	.60	.60	.61	.63	.63

TAI!
 FLUORESCENCE: RARE, BRIGHT YELLOW
 ? SOLIDIFIED BITUMEN

OXIDATION RIMS: RARE TO COMMON

PERCENT REFLECTANCE @ 546 nm

AMOCO ALBERT KALOA #1 *R/D*
ALASKA DEPTH: #2 12120-12400 ft REFLECTANCE VALUES
COOK INLET



NO OF MEAS. = 48
AVG. REFL. = .54
STD. DEV. = .04
COMMENTS:

.49	.49	.49	.49	.49	.49	.49
.49	.50	.50	.50	.51	.51	.52
.52	.52	.52	.53	.53	.53	.54
.54	.54	.54	.54	.54	.55	.55
.55	.55	.56	.56	.56	.57	.57
.58	.59	.59	.59	.59	.59	.60
.60	.60	.61	.61	.61	.61	

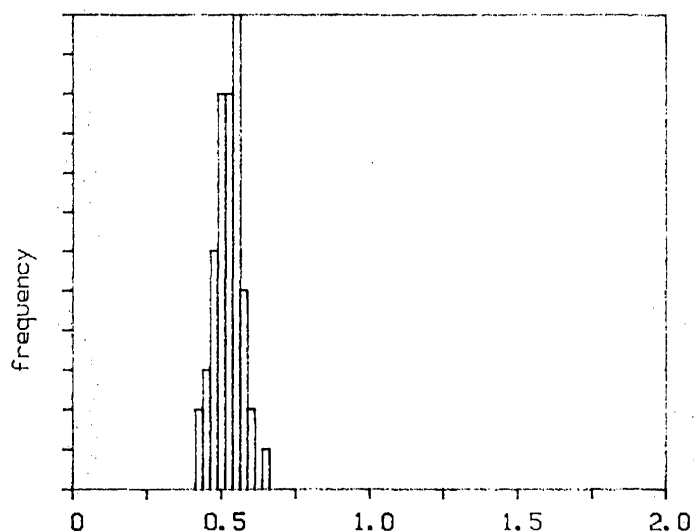
TAI!
FLUORESCENCE: RARE; BRIGHT YELLOW TO ORANGE
LIPTODETRINITE; DULL YELLOW BITUMINITE.

OXIDATION RMS: RARE TO COMMON

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PERCENT REFLECTANCE @ 546 nm

AMOCO ALBERT KALOA #1 *R/D*
 ALASKA DEPTH: #2 12400-12700 ft REFLECTANCE VALUES
 COOK INLET



NO OF MEAS. = 52
 AVG. REFL. = .53
 STD. DEV. = .04
 COMMENTS:

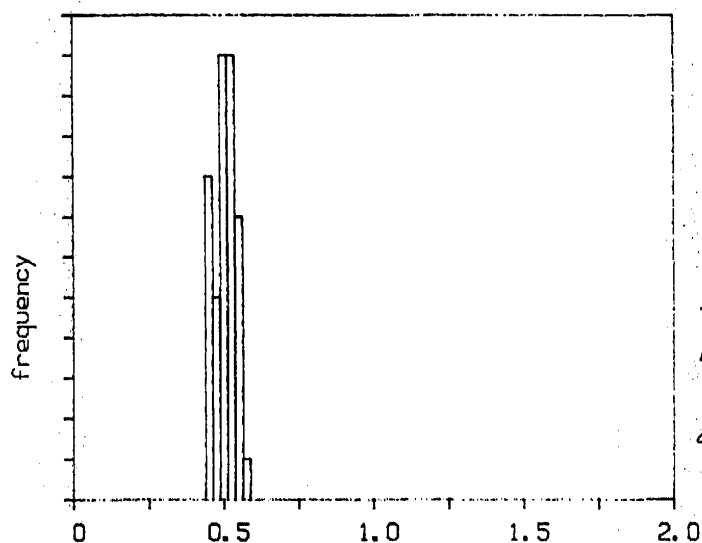
.44	.44	.45	.46	.47	.48	.48
.48	.49	.49	.49	.50	.50	.50
.51	.51	.51	.52	.52	.52	.52
.53	.53	.54	.54	.54	.54	.54
.54	.54	.54	.55	.55	.55	.55
.55	.55	.56	.56	.56	.56	.57
.57	.57	.58	.58	.58	.59	.59
.60	.62	.67				

TAI:
 FLUORESCENCE: RARE, DARK ORANGE SPORINITE.
 OXIDATION RIMS: NONE

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PERCENT REFLECTANCE @ 546 nm

AMOCO ALBERT KALOA #1 *R/D*
 ALASKA DEPTH: #2 12728-13000 ft REFLECTANCE VALUES
 COOK INLET



.45	.46	.46	.46	.46	.46	.47
.47	.48	.48	.48	.48	.49	.50
.50	.50	.50	.51	.51	.51	.51
.52	.52	.52	.53	.53	.53	.53
.54	.54	.54	.54	.54	.54	.54
.55	.55	.55	.56	.56	.56	.57
.58						

TAI!
 FLUORESCENCE; RARE; YELLOW TO ORANGE
 SPORINITE AND LIPTODETRINITE.

OXIDATION RIMS; RARE

NO OF MEAS. = 43

AVG. REFL. = .51

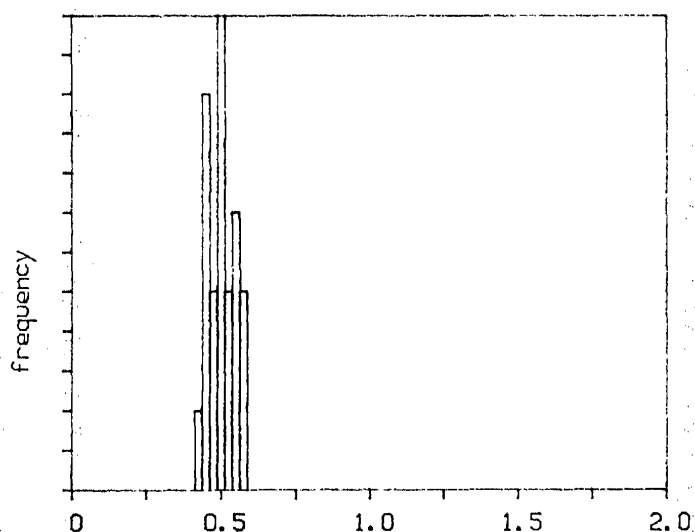
STD. DEV. = .03

COMMENTS: RARE "PSEUDO-GRAPHITE"

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PERCENT REFLECTANCE @ 546 nm

AMOCO ALBERT KALOA #1 *R/D*
 ALASKA DEPTH: #2 13000-13300 ft REFLECTANCE VALUES
 COOK INLET



.43	.43	.45	.45	.46	.46	.46
.47	.47	.47	.47	.47	.48	.48
.48	.48	.49	.50	.50	.50	.50
.50	.50	.50	.50	.51	.51	.51
.51	.51	.52	.52	.53	.53	.53
.54	.54	.55	.55	.55	.55	.56
.57	.57	.58	.58	.58	.58	.59

TAI!
 FLUORESCENCE: RARE, ORANGE SPORINITE,
 YELLOW ? SOLIDIFIED BITUMEN.

OXIDATION RIMS: RARE

NO OF MEAS. = 49

AVG. REFL. = .51

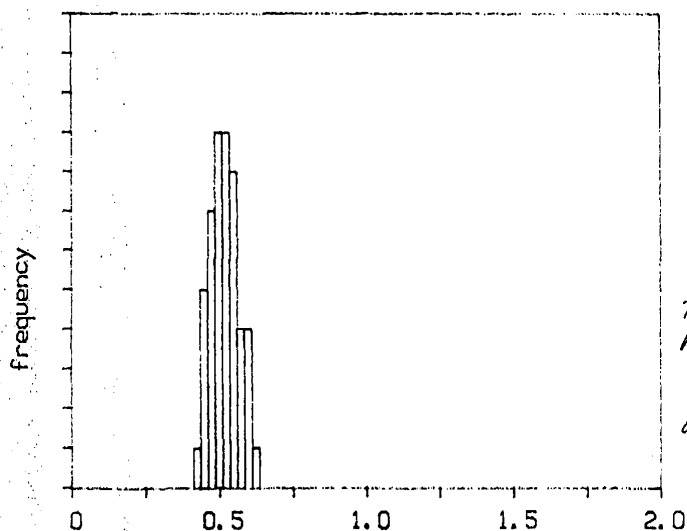
STD. DEV. = .04

COMMENTS: RARE "PSEUDO-GRAPHITE"

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PERCENT REFLECTANCE @ 546 nm

AMOCO ALBERT KALOA #1 *R/D*
 ALASKA DEPTH: #2 13300-13600 ft REFLECTANCE VALUES
 COOK INLET



NO OF MEAS. = 48

AVG. REFL. = .53

STD. DEV. = .05

COMMENTS: RARE "PSEUDO-GRAPHITE"

.44	.45	.47	.47	.47	.47	.48
.48	.49	.49	.49	.49	.49	.50
.50	.51	.51	.51	.52	.52	.52
.52	.53	.53	.53	.53	.53	.54
.54	.54	.54	.55	.55	.55	.56
.57	.57	.57	.57	.58	.58	.59
.59	.60	.60	.61	.62	.63	

TAI,
 FLUORESCENCE: RARE; YELLOW BITUMINITE
 AND LIPTODETRINITE.

OXIDATION RIMS: RARE