

Total organic carbon, rock-eval pyrolysis and vitrinite reflectance data
of ditch cuttings from the Arco Alaska Inc. OCS Y-0537-1 (Rat No. 1) well

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Geologic Materials Center Data Report No. 100

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TABLE 1 TOC AND ROCK-EVAL PYROLYSIS

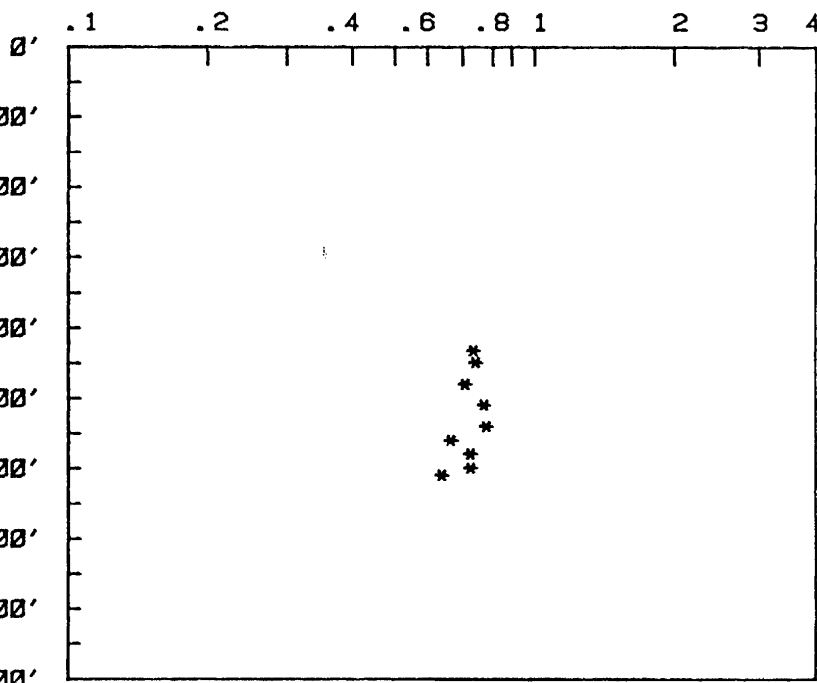
PROJECT: ARCO, OCS-Y-0537 #1, BERING SEA. ALASKA
CHARGE NUMBER: WC070569

DEPTH OR OUTCROP NO.	S1 mg/g	S2 mg/g	S3 mg/g	TMAX C	TOC wt. %	HI	OI
10000-10100	0.18	0.54	0.58	430	1.12	48	51
10100-10200	0.09	0.20	0.25	439	0.46	43	54
10200-10300	0.18	0.34	0.79	423	0.87	39	90
10300-10400	0.09	0.33	0.42	438	0.38	86	110
10400-10500	0.13	0.46	0.35	435	0.42	109	83
10400-10500 D	0.13	0.51	0.34	435	0.42	121	80
10500-10600	0.13	0.38	0.35	429	0.53	71	66
10600-10700	0.26	0.87	0.79	430	0.89	97	88
10700-10800	0.33	0.68	0.61	428	1.41	48	43
10800-10900	0.39	1.23	0.54	440	1.82	67	29
10900-11000	0.14	0.66	0.27	432	0.62	106	43
11000-11100	0.18	0.46	0.20	431	0.75	61	26
11100-11200	0.08	0.21	0.36	430	0.37	56	97
11200-11300	0.08	0.28	0.28	427	0.41	68	68
11300-11400	0.13	0.44	0.13	431	0.51	86	25
11400-11500	0.18	0.38	0.41	422	0.70	54	58
11400-11500 D	0.18	0.37	0.41	427	0.72	54	56
11500-11600	0.17	0.48	0.20	433	0.68	70	29
11600-11700	0.12	0.35	0.15	432	0.53	66	28
11700-11800	0.19	0.45	0.17	434	0.83	54	20
11800-11900	0.22	0.60	0.26	426	0.92	65	28
11900-12000	0.21	0.63	0.15	428	0.82	76	18
12000-12100	0.31	0.96	0.39	444	1.59	60	24
12100-12200	0.50	1.65	1.42	438	2.19	75	54
12200-12300	0.27	0.82	0.42	439	1.45	56	28
12300-12400	0.15	0.40	0.19	436	0.96	41	19
12400-12450	0.34	1.14	0.41	445	2.59	44	15

D - DUPLICATE FILE NAME
- UNABLE TO CALCULATE VALUE
* BIMODAL S2 PEAK

DEPTH	% REFL.
0	100
10	100
20	100
30	100
40	100
50	100
60	100
70	100
80	100
90	100
100	100

Marine.
Jurassic

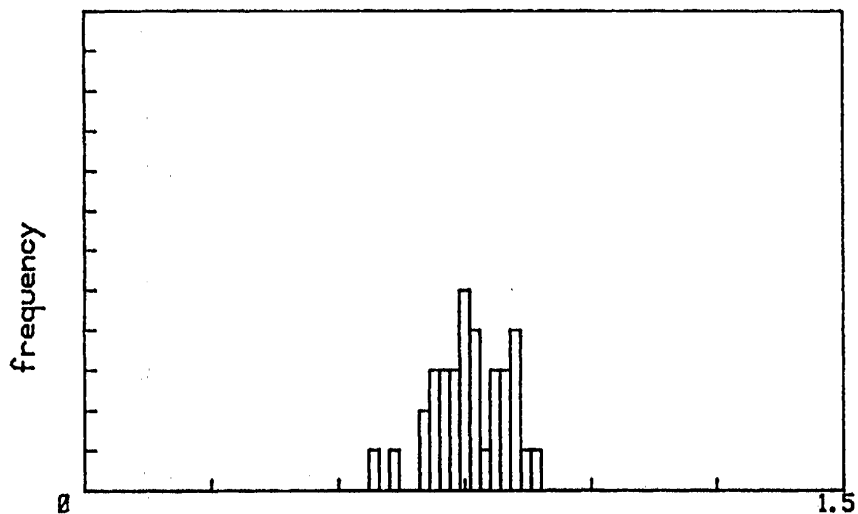


DEPTH vs REFLECTANCE

VITRINITE REFLECTANCE @ 546 nm

ARCO OCS Y0537#1
8660-8970 FT

DITCH SAMPLE



Ro VALUES

.56	.61	.66	.67	.68	.68
.69	.7	.7	.7	.73	.73
.73	.74	.74	.74	.74	.75
.76	.77	.77	.77	.79	.8
.81	.81	.83	.83	.83	.84
.85	.85	.85	.87	.89	

NO OF MEAS. = 35

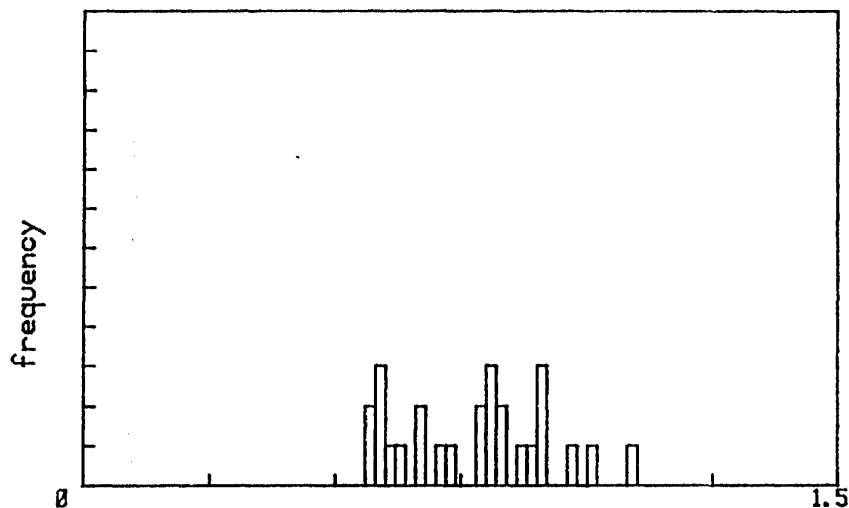
AVE. REFL. .76

STD. DEV = .08

VITRINITE REFLECTANCE @ 546 nm

ARCO OCS Y0537#1
8990-9270 FT

DITCH SAMPLE



R_o VALUES

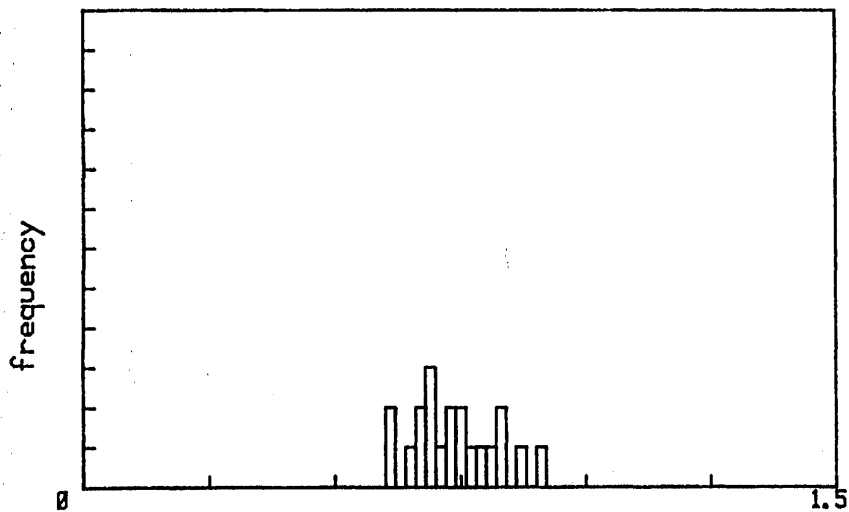
.57	.57	.58	.59	.59	.61
.63	.66	.67	.71	.72	.78
.79	.8	.8	.8	.83	.83
.86	.88	.9	.9	.91	.96
1	1.08				

NO OF MEAS. = 26
AVE. REFL. .77
STD. DEV = .14

VITRINITE REFLECTANCE @ 546 nm

ARCO OCS Y0537#1
9610-9910 FT

DITCH SAMPLE



R_o VALUES

.6	.6	.65	.67	.67	.68
.68	.69	.71	.72	.73	.75
.75	.76	.78	.8	.82	.83
.86	.9				

NO OF MEAS. = 20

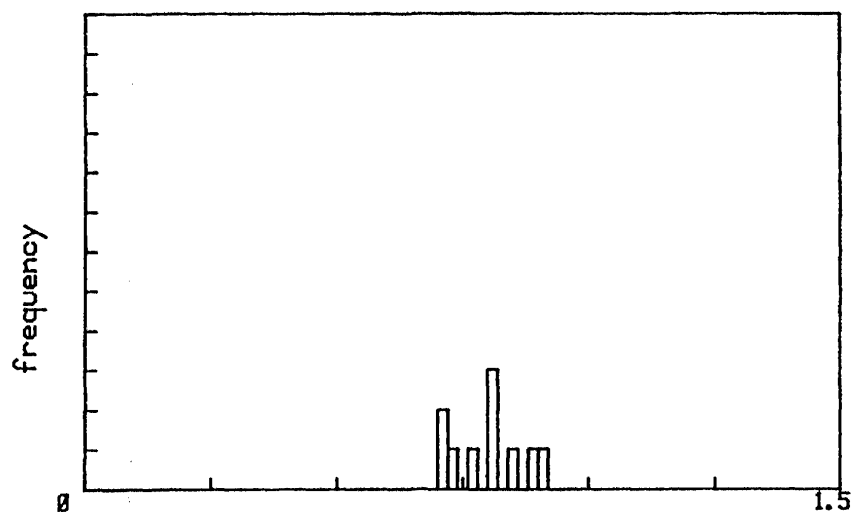
AVE. REFL. .73

STD. DEV = .08

VITRINITE REFLECTANCE @ 546 nm

ARCO OCS Y0537#1
10200-10480 FT

DITCH SAMPLE



R₀ VALUES

.7	.71	.73	.77	.81	.81
.81	.85	.89	.9		

NO OF MEAS. = 10

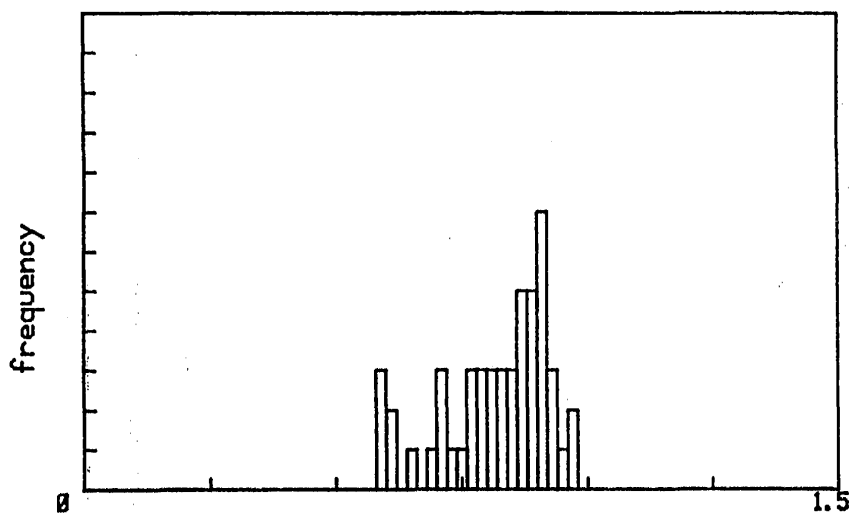
AVE. REFL. .8

STD. DEV = .07

VITRINITE REFLECTANCE @ 546 nm

ARCO OCS Y0537#1
10810-11000 FT

DITCH SAMPLE



R₀ VALUES

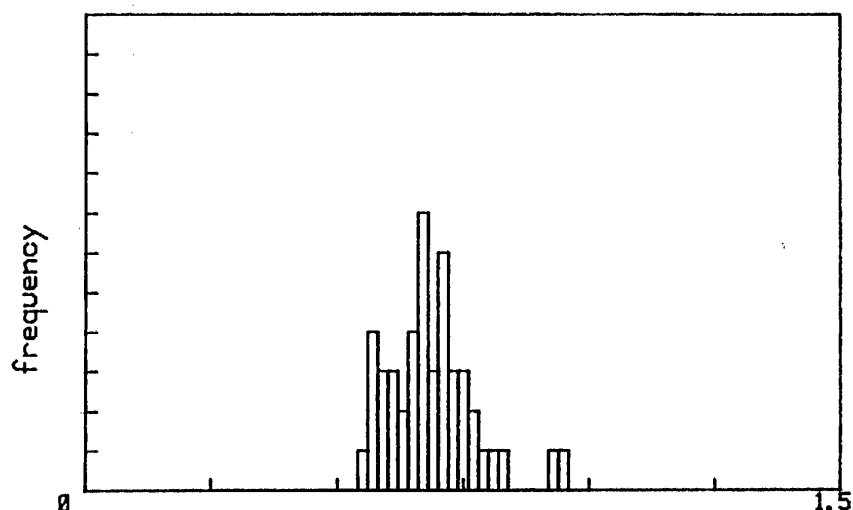
.59	.59	.59	.6	.61	.64
.69	.7	.71	.71	.73	.75
.76	.77	.77	.78	.78	.79
.8	.8	.81	.82	.82	.82
.84	.84	.84	.86	.86	.86
.87	.87	.88	.88	.89	.89
.89	.9	.9	.9	.9	.91
.91	.91	.92	.92	.92	.94
.96	.96				

NO OF MEAS. = 50
AVE. REFL. .81
STD. DEV = .1

VITRINITE REFLECTANCE @ 546 nm

ARCO OCS Y0537#1
11210-11380 FT

DITCH SAMPLE



Ro VALUES

.55	.58	.58	.57	.57	.58
.58	.59	.6	.6	.61	.62
.62	.64	.64	.64	.64	.66
.66	.67	.67	.67	.67	.67
.69	.69	.69	.7	.7	.7
.7	.71	.71	.72	.72	.73
.74	.75	.75	.76	.76	.78
.8	.83	.92	.95		

NO OF MEAS. = 46

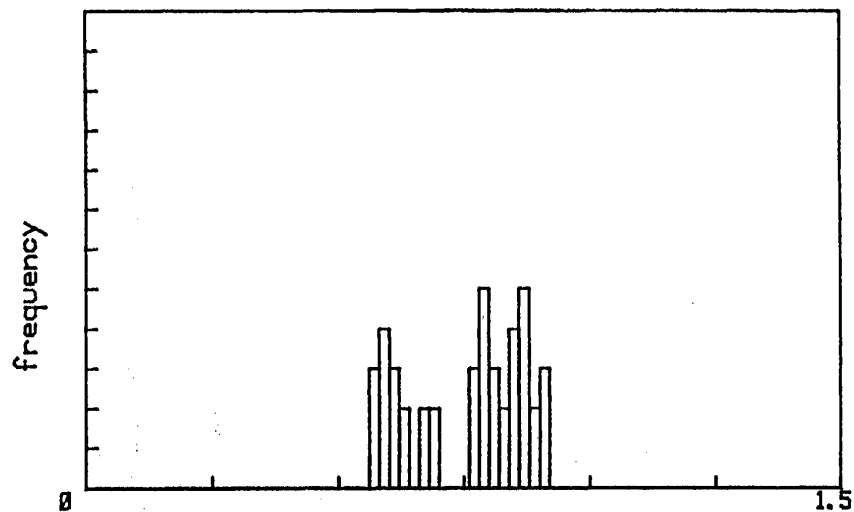
AVE. REFL. .68

STD. DEV = .09

VITRINITE REFLECTANCE @ 546 nm

ARCO OCS Y0537#1
11600-11780 FT

DITCH SAMPLE



R_o VALUES

.56	.57	.57	.58	.58	.59
.59	.6	.61	.61	.62	.62
.67	.67	.68	.69	.77	.77
.77	.78	.79	.79	.79	.79
.8	.8	.81	.82	.83	.84
.85	.85	.85	.86	.86	.87
.87	.87	.88	.88	.9	.9
.91					

NO OF MEAS. = 43

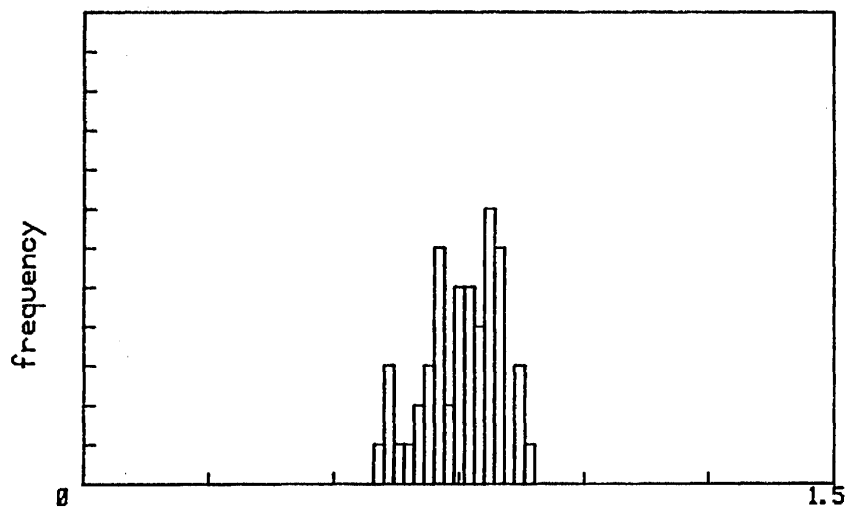
AVE. REFL. .75

STD. DEV = .12

VITRINITE REFLECTANCE @ 546 nm

ARCO OCS Y0537#1
12000-12200 FT

DITCH SAMPLE

R₀ VALUES

.59	.6	.6	.61	.62	.64
.67	.67	.68	.68	.69	.7
.7	.7	.71	.71	.71	.72
.73	.74	.74	.74	.74	.75
.76	.76	.76	.76	.77	.78
.79	.79	.79	.8	.81	.81
.81	.81	.81	.81	.82	.82
.82	.83	.83	.83	.86	.86
.86	.89				

NO OF MEAS. = 50

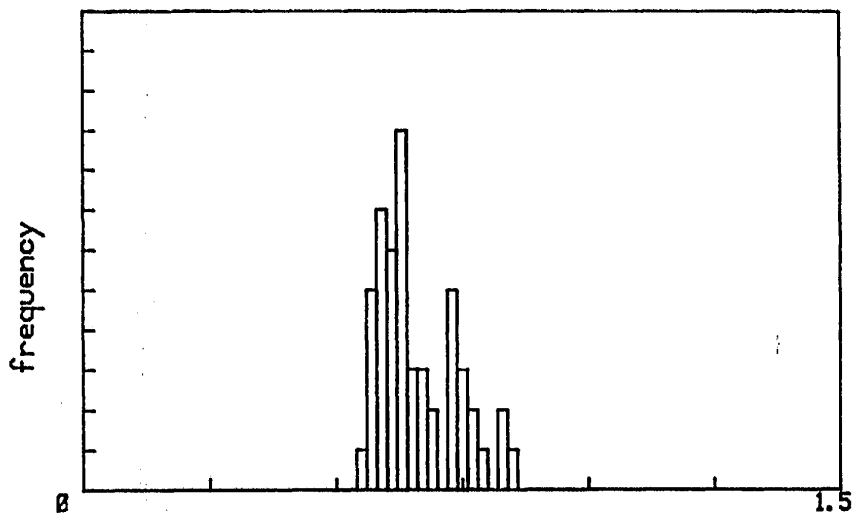
AVE. REFL. .75

STD. DEV = .08

VITRINITE REFLECTANCE @ 546 nm

ARCO OCS Y0537#1
12200-12430 FT

DITCH SAMPLE



Ro VALUES

.55	.58	.56	.57	.57	.57
.58	.58	.59	.59	.59	.59
.59	.6	.61	.61	.61	.61
.61	.62	.62	.62	.62	.63
.63	.63	.63	.63	.64	.64
.64	.66	.66	.67	.68	.68
.72	.72	.72	.72	.73	.74
.75	.75	.77	.77	.79	.82
.83	.84				

NO OF MEAS. = 50

AVE. REFL. .65

STD. DEV = .08