

FOOTAGE	TYPE	STAGE	FOOTAGE	TYPE	STAGE
7,280	M	4.0	10,390	M	3.5
7,410	M	4.0	10,470	M	3.5
7,450	M	4.0	10,545	M	3.5
7,550	M	4.0	10,640	A	4.0
7,680	M	4.0	10,740	A	4.0
7,770	M	4.0	10,830	M	4.0
7,830	M	4.0	10,920	M	4.0
7,930	S	3.5	11,000	M	4.0
8,050	S	4.0	11,090	M	4.0
8,150	S?	4.0	11,180	M	4.0
8,240	M?	4.0	11,270	M	4.0
8,310	M?	4.0	11,305	M	4.0
8,400	M?	4.0	11,410	M	4.0
8,460	S	3.5	11,510	M	4.0
8,560	M?	4.0	11,620	M	4.0
8,660	M	4.0	11,705	M	4.0
8,750	M	4.0	11,800	M	4.0
8,800	M	4.0	11,880	M	4.0
8,920	M	4.0	11,920	M	4.5
9,020	M	3.5	12,002	M	4.5
9,055	A?	3.5			
9,160	M	3.5			
9,230	A	3.5			
9,320	M	3.5			
9,440	M	3.5			
9,540	M	3.5			
9,630	M	3.5			
9,750	M	3.5			
9,820	M	4.0			
9,940	M	4.0			
10,020	M	4.0			
10,060	M	3.5			
10,180	M	3.5			
10,300	M	3.5			

KEY

S = Structured kerogen

M = Mixed kerogen

A = Amorphous kerogen

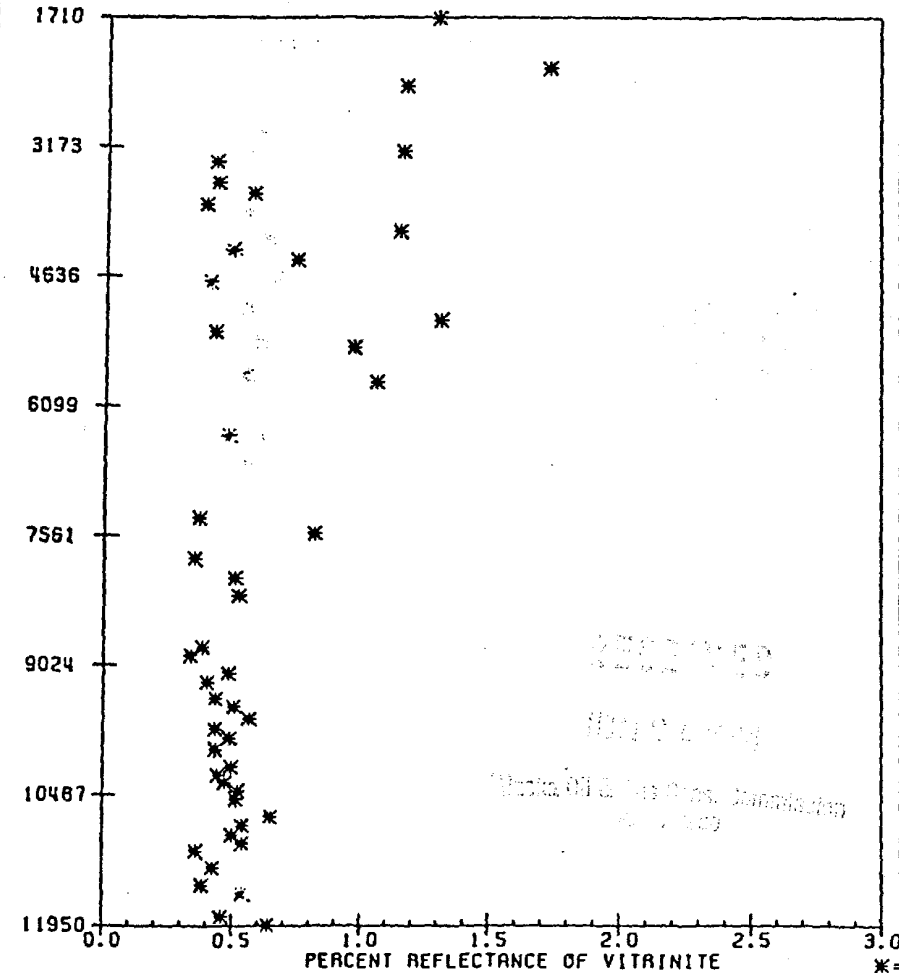
I = Indeterminate

1970-1972
 1971-1972
 State Oil & Gas Board, Oklahoma

NOV 21 1983

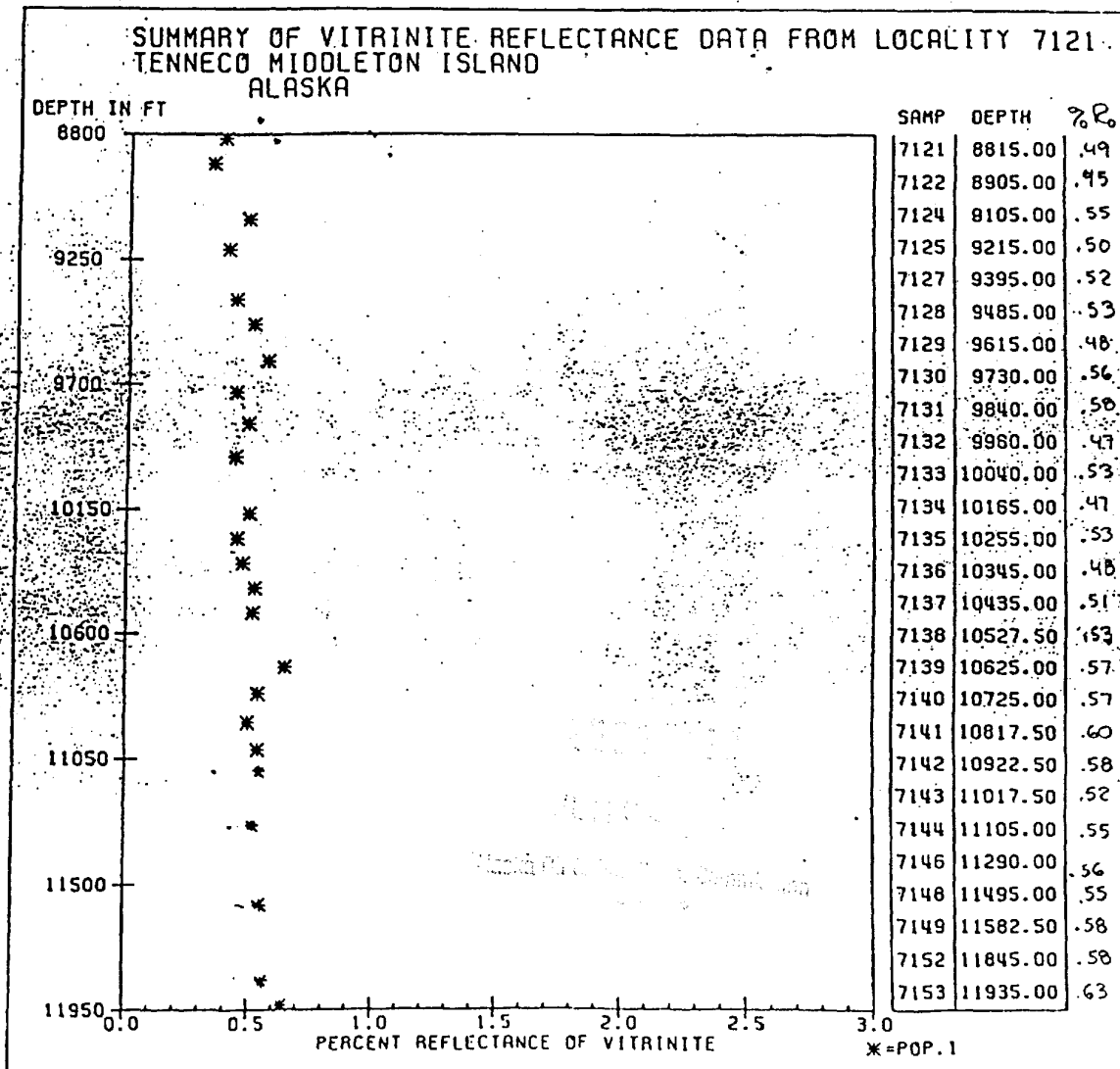
SUMMARY OF VITRINITE REFLECTANCE DATA FROM LOCALITY 7121
 TENNECO MIDDLETON ISLAND
 ALASKA

DEPTH IN FT



SAMP	DEPTH	%R _o
7121	8815.00	.38
7122	8905.00	.34
7124	9105.00	.46
7125	9215.00	.40
7127	9395.00	.43
7128	9485.00	.51
7129	9615.00	.56
7130	9730.00	.44
7131	9840.00	.49
7132	9960.00	.43
7133	10040.00	.50
7134	10165.00	.50
7135	10255.00	.45
7136	10345.00	.47
7137	10435.00	.52
7138	10527.50	.51
7139	10625.00	.51
7140	10725.00	.65
7141	10817.50	.54
7142	10922.50	.58
7143	11017.50	.54
7144	11105.00	.36
7146	11290.00	.43
7148	11495.00	.38
7149	11582.50	.56
7152	11845.00	.46
7153	11935.00	.65
7711	1725.00	.11
7714	2280.00	.11
7716	2480.00	.11
7794	3225.00	.11
7795	3335.00	.13
7797	3580.00	.15
7798	3697.50	.15
7799	3820.00	.15
7800	4125.00	.11
7802	4360.00	.13
7803	4445.00	.13
7804	4715.00	.13
7806	5140.00	.15
7807	5260.00	.15
7808	5440.00	.15
7809	5840.00	.15
7810	6425.00	.15
7814	7355.00	.15
7815	7535.00	.15
7816	7815.00	.15
7818	8035.00	.15
7820	8225.00	.52

SUMMARY OF VITRINITE REFLECTANCE DATA FROM LOCALITY 7121.
TENNECO MIDDLETON ISLAND
ALASKA



November 29, 1983

J. Maynard
1228 AB

TENNECO MIDDLETON ISLAND, ALASKA

Vitrinite and visual kerogen slides were prepared for the interval of 1,700-11,950 feet, to determine the levels of thermal maturity and compare these to previous visual estimates of maturity.

The data can be seen on Attachment 1 in strip chart form.

Levels of maturity ranged from pregeneration to early peak oil generation, or a visual level of 4. Kerogen type is at best mixed and can be seen on Attachment 2. Reflectance levels of approximately 0.60-0.65% R_o are reached at the base of the well. It is doubtful that source rocks at this level of maturity would be capable of significant expulsion; however, additional thermal input (depth or heat) could explain the oil seeps found in the area.

Tom Hemler

Tom Hemler

TH/df

Attachments

420 1150

11/30/83

Alaska Oil & Gas Corp. Operations

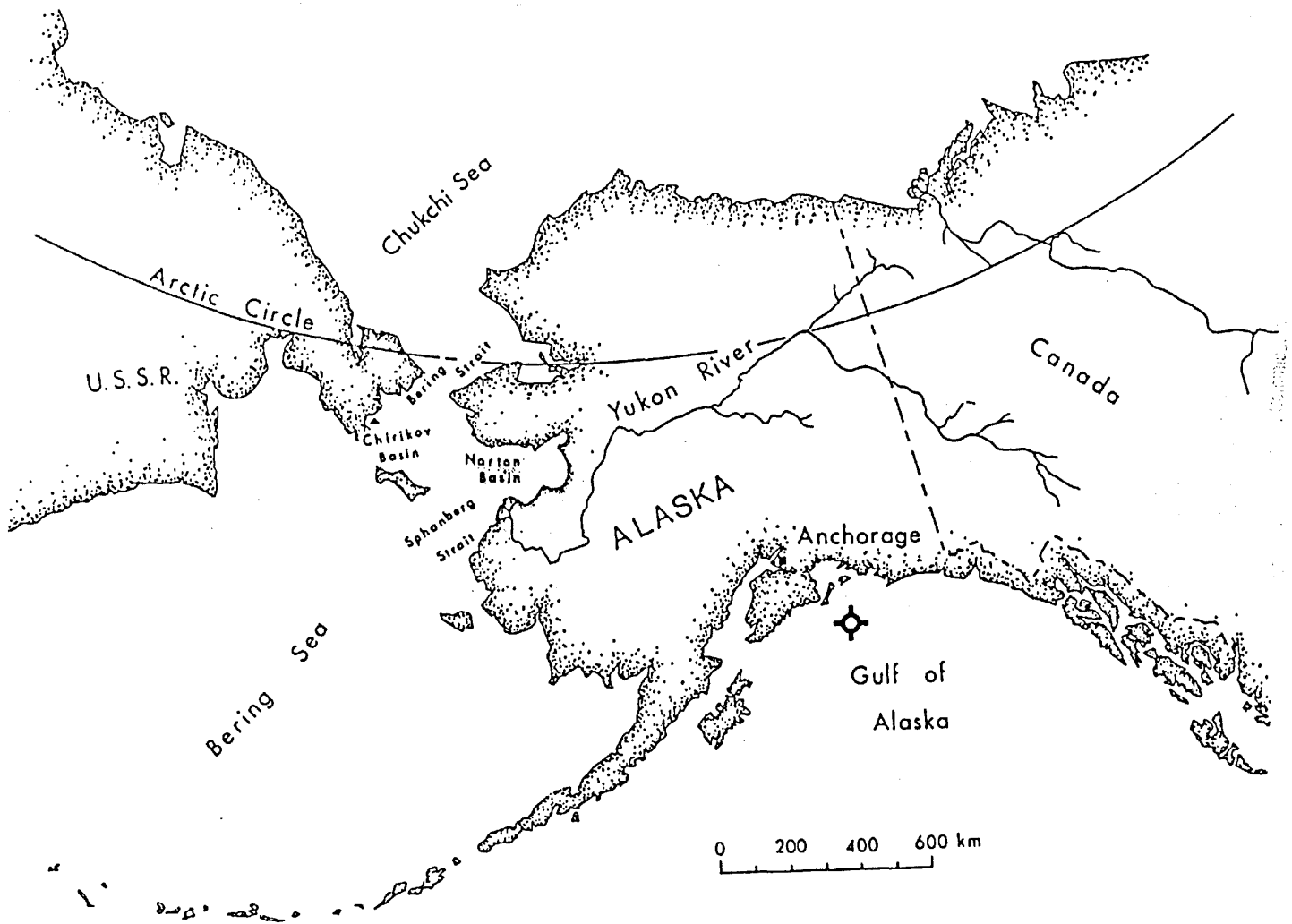
VISUAL THERMAL MATURATION AND KEROGEN TYPES OF MIDDLETON ISLAND #1

FOOTAGE	TYPE	STAGE	FOOTAGE	TYPE	STAGE
1,680	M	2.0	4,380	M	3.5
1,710	M	2.0	4,470	M	3.5
1,860	M	2.0	4,560	M	3.5
1,950	M	2.0	4,640	M	3.5
1,980	M	2.0	4,740	M	3.5
2,040	M	2.5	4,820	M	3.5
2,130	M	2.5	4,920	M	3.5
2,220	M	2.5	5,040	M	3.5
2,300	M	3.0	5,100	M	3.5
2,400	M	3.0	5,160	M	3.5
2,490	M	3.0	5,280	M	3.5
2,580	S	3.0	5,380	M	3.5
2,670	M	3.0	5,460	S?	3.0
2,700	M	3.0	5,540	M	3.5
2,820	M	3.0	5,640	M	3.5
2,940	M	3.0	5,740	M	3.5
3,030	M	3.0	5,820	M	3.5
3,120	M	3.0	5,900	M	3.5
3,210	M	3.0	6,000	M	3.5
3,300	M	3.0	6,080	M	3.5
3,355	M	3.0	6,260	M	3.5
3,475	M	3.0	6,360	M	3.5
3,515	M	3.0	6,440	M	3.5
3,605	M	3.5	6,520	M	3.5
3,720	M	3.5	6,620	M	3.5
3,840	M	3.5	6,680	M	3.5
3,930	M	3.5	6,810	M	3.5
4,020	M	3.5	6,900	M	4.0
4,110	M	3.5	7,060	M	4.0
4,160	M	3.5	7,100	M	4.0
4,240	M	3.5	7,240	M	4.0

Alaska Oil & Gas Cons. Commission
 Anchorage

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LOCATION OF TENNECO MIDDLETON ISLAND #1