

## **Appendix D: Palynology data, in Fehlmann, R.H., and Amoco Oil Co., Data compilation 1970 Amoco field party, western and central Brooks Range, Alaska**

Fehlmann, R.H., and Amoco Oil Co.

GMC DATA REPORT 463D

This GMC data report from the Amoco Heritage collection has been made available through funding from the FY2018 USGS National Geological and Geophysical Data Preservation Program, Grant Number G18AP00054. This project report is presented in its original format and has not been reviewed for technical content or for conformity to the editorial standards of DGGs. It should not be used or cited as reviewed data.

2019  
State of Alaska  
Department of Natural Resources  
Division of Geological & Geophysical Surveys  
**GEOLOGIC MATERIALS CENTER**



CF 710028

# PAN AMERICAN PETROLEUM CORPORATION

SECURITY LIFE BUILDING  
DENVER, COLORADO 80202

December 3, 1970

*RW Walker*  
*WOW*

Mr. G. F. Stansberry  
Northwest District  
Building

Attention: Mr. Robert Fehlmann

Dear Sir:

Thirty-two outcrop samples collected on the North Slope of Alaska during the 1970 field season were submitted for palynologic age determination. The results obtained from the examination of these samples were poor due to the lack of palynomorph recovery from the samples. Almost all of the organic residues contained carbon debris and some degraded pollen and spores. The degradation of the palynomorphs could be due to oxidation of the surface samples, low-grade metamorphism from area tectonics, or mineralization, which was apparent in some samples.

The results of the examination and pertinent comments about each of the samples are as follows:

<u>Sample No.</u>	<u>Age Determination</u>	
CDB 63	Paleozoic-Permian?	Carbonized, pyrite holes in taxa.
CDB 64	Barren	Carbonized.
CDB 125	"	" , modern contamination.
CDB 126	Barren	Carbonized
CDB 127	"	" , modern contamination.
CDB 128	Barren	Carbonized.
CDB 130	"	"
CDB 142	Mesozoic-Jurassic?	"
CDB 144	Mesozoic-Jurassic	"
CDB 145	Mesozoic-Jurassic?	"
CDB 146	Barren	"
CDB 147	"	"
CDB 149	Mesozoic-Jurassic??	"
CDB 150	Barren	"
CDB 152	No organic material recovered.	
CDB 154	Barren	Carbonized.
CDB 157	"	"
CDB 158	Mesozoic-Jurassic?	"
CDB 162	No organic material recovered.	

Mr. G. F. Stansberry

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December 3, 1970

<u>Sample No.</u>	<u>Age Determination</u>	
CH 115	Barren	Carbonized.
RRR 95	"	"
RRR 128	"	"
RRR 182	Permian or Lower Triassic, probably Lower Triassic	"
RF 7	Barren	Carbonized.
RF 8	"	
RF 9	"	
RF 82	"	Carbonized.
RF 91	"	Carbonized.
RF 99	"	Carbonized.
RF 125	"	
RF 271	"	Carbonized.
RF 273	"	"

Only seven of the thirty-two samples submitted contained some identifiable palynomorphs and some of these age dates are questionable.

Very truly yours,

*Donald W. Engelhardt*  
Donald W. Engelhardt

DWE:vh

cc: Mr. R. K. Taylor



*Have*

# PAN AMERICAN PETROLEUM CORPORATION

SECURITY LIFE BUILDING  
DENVER, COLORADO 80202

January 20, 1971

*LBS*  
*Dec*

Mr. G. F. Stansberry  
Northwest District  
Building

Attention: Mr. Robert Fehlmann *RHJ*

Dear Sir:

Forty-two outcrop samples collected on the North Slope of Alaska during the 1970 field season were submitted for palynologic age determination. The results obtained from the examination of these samples were poor due to the lack of palynomorph recovery from the samples. Almost all of the organic residues from the samples contained carbon debris and some degraded palynomorphs.

The results of the examination and pertinent comments about each of the samples are as follows:

<u>Sample No.</u>	<u>Age Determination</u>	
FCH 516	Barren	Carbonized
FCH 518	"	"
FCH 519	"	"
FCH 520	Permian-Lower Triassic	"
2016 P	Barren	"
2017 P (A)	Permian-Lower Triassic	"
2017 P (B)	Barren	"
2019 P	"	"
2021 P	"	"
2022 P	"	"
2028 P	"	"
2029 P	"	"
2030 P	"	"
3008 P	U. Triassic-L. Jurassic	Very poor
3011 P	" "	"
3013 P	" "	"
3016 P	" "	"
3017 P	U. Triassic	"
3019 P	U. Triassic-L. Jurassic	"
3022 P	U. Triassic	"
3036 P	U. Devonian-Famennian	Poor

Mr. G. F. Stansberry

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<u>Sample No.</u>	<u>Age Determination</u>	
3037 P	U. Devonian-Famennian	Poor
3056 L	Mississippian ??	Carbonized
3084 L	Barren	"
3129 P	Barren	"
3135 P	Barren	Carbonized, Modern Contamination
3137 P	"	"
3142 P	"	"
3156 P	"	"
3176 P	"	Carbonized
3195 P	Mississippian ??	"
3197 P	"	"
4001 P	U. Devonian-Famennian	Poor preservation
4005 P	Barren	
4006 P	U. Devonian-Famennian	Poor preservation
4008 P	Mississippian-Lower?	" "
4009 P	Mississippian ?	Carbonized
4036 P	U. Devonian-Frasnian ?	"
4038 P	"	"
4039 P	"	"
4041 P	"	"
4043 P	"	"

Twenty-three of the forty-two samples submitted contained some identifiable palynomorphs. Some of the age determinations are questionable because of the generally poor preservation of the material.

Very truly yours,

*Donald W. Engelhardt*  
Donald W. Engelhardt

DWE:vh

cc: R. K. Taylor





**Amoco Production Company**

Security Life Building  
Denver, Colorado 80202

May 17, 1971

Mr. G. F. Stansberry  
Northwest District Geologist  
BUILDING

Attention: Mr. Robert Fehlmann

Dear Sir:

Sixty outcrop samples collected on the North Slope of Alaska during the 1970 field season were submitted for palynologic age determination. The results obtained from the examination of these samples were poor due to lack of palynomorph recovery from the samples. Almost all of the samples yielded organic residues which contained carbon debris and in some samples degraded palynomorphs.

The results of the examination and pertinent comments about each of the samples are as follows:

<u>Sample No.</u>	<u>Age Determination</u>
Redstone 2 (A)	Barren, carbon debris
Redstone 2 (B)	Barren, no organic recovery
1032 P	Barren, carbon debris
1033 P	Barren, carbon debris
1043 P	Barren, carbon debris
1045 P	Paleozoic, carbon debris
1046 P	Upper Mississippian
1065 P	Barren, carbon debris
1066 P	Barren, carbon debris
1070 P	Barren, organic debris
1075 P	Barren, carbon debris
1079 P	Barren, organic debris
1085 P	Barren, organic debris
1087 P	Paleozoic, contains scolecodonts
1109 P	Barren, carbon debris
2006 P	Barren, carbon debris
2016 P	Barren, carbon debris
2017 P (A)	Barren, carbon debris
2017 P (B)	Barren, carbon debris
2019 P	Barren, carbon debris
2021 P	Barren, carbon debris
2022 P	Barren, Carbon debris

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Mr. G.F. Stansberry  
Att: Mr. Robert Fehlmann  
May 17, 1971

<u>Sample No.</u>	<u>Age Determination</u>
2037 P	Paleozoic, Upper Devonian ??
2067 P	Mississippian, contains scolecodonts
2070 P&G	Barren, contains scolecodonts
2103 P&G	Barren, organic debris
2110 P	Barren, contains scolecodonts
2122 P&G	Barren, organic debris
2124 P	Barren, organic debris
4050 P	Barren, carbon debris
4054 P	Barren, carbon debris
4056 P	Barren, carbon debris
4059 P	Barren, carbon debris
4060 P	Barren, carbon debris
4061 P	Barren, carbon debris
4063 P	Barren, carbon debris
4064 P	Barren, carbon debris
4066 P	Mississippian ?
4067 P	Mississippian
4069 P	Mississippian
4074 P	Barren, carbon debris
4075 P	Barren, carbon debris
4079 P	Mississippian ?
4080 P	Mississippian
4081 P	Barren, organic debris
4082 P	Barren, carbon debris
4084 P	Barren, carbon debris
4090 P	Barren, carbon debris
4094 P	Barren, carbon debris
4107 P	Barren, carbon debris
4108 P	Barren, carbon debris
4109 P	Barren, carbon debris
4113 P	Barren, carbon debris
4153 P	Barren, carbon debris
4156 P	Barren, carbon debris
4158 P	Barren, carbon debris
4159 P	Barren, carbon debris
4160 P	Barren, carbon debris
4161 P	Barren, carbon debris
4163 P	Barren, carbon debris

Ten of the sixty samples submitted contained some identifiable palynomorphs. Some of the age determinations are questionable because of the generally poor preservation of the material.

Very truly yours

*Donald W. Engelhardt*

Donald W. Engelhardt

DWE:djb

cc: Mr. A. B. Shaw