

**Appendix J: Porosity and permeability data, in Furer, L.C., Fehlmann, R.H., Taylor, A.M., Self, G.W., and Amoco Oil Co., Data compilation of the 1971 field party, southeast Brooks Range and Fort Yukon, Alaska; Vol 1**

Furer, L.C., and Amoco Oil Co.

GMC DATA REPORT 464J

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**



APPENDIX J POROSITY-PERMEABILITY  
DATA 1971





Amoco Production Company  
Tulsa, Oklahoma

March 14, 1972

*Gardner*

Re: Thin-Sections and Porosity and Permeability Measurements,  
Fort Yukon Basin Surface Samples

File: Technical Service No. 5948SR  
Job No. 5618

CF74 0014  
0230

Mr. B. F. Baldwin  
Denver Division

Attention G. F. Stansberry

Dear Sir:

The thin-sections and slabbed samples from the 28 samples on List 1 (attached to your request), were sent under separate cover on March 11, 1972. Results of porosity and permeability measurements made by the Routine Analysis Laboratory of the Production Research Division are attached to this letter.

The samples on your List 2 are being handled by the Paleontology Group and you will hear from them in due course.

Very truly yours,

WILLIAM R. WALTON

By *Eric R. Michaelis*  
Eric R. Michaelis

ERM:sd

Attachment

cc w/attachment: R. K. Taylor  
L. C. Furer  
J. A. Momper

Core Analysis Data Record

Oil Ft. Yukon Basin Field Party Field List No. 1 State

Sample Number	Depth	Description	Permeability		Effective Porosity	Grain Density
			Horizontal	Vertical		
A		LCF105L	.18	Pg Grab sample	3.2	2.65
B		LCF102L	<.05	Pg " "	1.5	2.66
C		LCF103L	.14	Pg " "	3.1	2.67
D		LCF105L	<.05	Pg " "	1.9	2.65
E		GWS3L	.05	Pg Late Deal? <sup>3/leer</sup> D.	1.7	2.64
F		ML5L	<.05	Kanagut (?) Grab	.9	2.66
G		GWS20	<.05	Amoco J set ✓	1.2	2.66
H		GWS6L	<.05	<del>Miss Composite</del>	2.8	2.67
I		GWS21L	<.05	Amoco J ✓	1.7	2.66
J		GWS262L	<.05	Stop Mt. ✓	2.3	2.69
K		GWS259L	<.05	Stop Mt. ✓	2.9	2.60
L		GWS257L	.18	Stop Mt. ✓	5.1	2.65
M		GWS255L	<.05	Stop Mt. ✓	1.6	2.64
N		GWS37L	.23	Amoco J ✓	3.8	2.84
O		LCF249L	.67	Jones Ridge ✓	1.0	2.66
P		ARC202L	.14	Mc Comr Hill ✓	3.1	2.85
Q		GWS213L	.76	Lincoln Hydro K ✓	3.4	2.72
R		LCF202L	2.08	TR Grab	23.0	2.68

W. R. Walton

cc: Geo. Sanderson  
Tina M. Peoples

1.4/1  
C. Smith