

**Appendix F: X-ray 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 464F

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

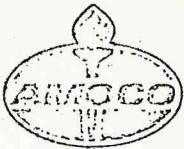


X-RAY DATA 1911

CVMS



92-00663724-021



Amoco Production Company
Tulsa, Oklahoma

March 27, 1972

Re: X-Ray Diffraction Analysis, Fort Yukon Basin Field Party

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

CF74 0014
~~0230~~

Mr. B. F. Baldwin
Denver Division

Attention G. F. Stansberry

Dear Sir:

We have completed x-ray diffraction analyses of the samples from the Fort Yukon Basin Field Party (List 1). The percentages of the various minerals present are reported on the attached sheet.

Thin section and porosity-permeability measurements were sent to you previously.

Very truly yours,

WILLIAM R. WALTON

By Eric R. Michaelis
Eric R. Michaelis

JTR:sd

Attachment

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

FORT YUKON BASIN

	% Quartz	% Calcite	% Dolomite	% Calcium Phosphate	% Feldspar	% Illite	% Kaolinite
ARO-200L	-	9	91	-	-	-	-
ARO-201L	20	19	46	15	-	-	-
ARO-202L	5	9	81	5	-	-	-
ARO-203L	60	40	-	-	-	-	-
GWS-3L	69	3	4	-	14	10	-
GWS-6L	96	-	-	-	-	4	-
GWS-20L	92	-	-	-	2	6	-
GWS-21L	90	-	-	-	-	10	-
GWS-37L	2	9	89	-	-	-	-
GWS-205L	40	5	55	-	-	-	-
GWS-210L	5	95	-	-	-	-	-
GWS-246L	93	-	5	-	-	-	2
GWS-255L	96	-	-	-	2	2	-
GWS-257L	100	-	-	-	-	Tr.	-
GWS-259L	76	20	-	-	-	4	-
GWS-262L	40	60	-	-	-	-	-
GWS-292L	30	47	23	-	-	-	-
GWS-295L	50	10	38	-	-	2	-
HRL-5L	96	-	-	-	-	4	-

	% Quartz	% Calcite	% Dolomite	% Calcium Phosphate	% Feldspar	% Illite	% Kaolinite
LCF-13L	96	-	-	-	-	4	-
LCF-102L	96	-	-	-	-	4	-
LCF-103L	94	-	-	-	-	6	-
LCF-105L	98	-	-	-	-	2	-
LCF-228L	96	-	-	-	-	4	-
LCF-246L	50	10	40	-	-	-	-
LCF-247L	34	19	47	-	-	-	-
LCF-248L	8	50	42	-	-	-	-
LCF-249L	75	7	18	-	-	-	-



Amoco Production Company
Tulsa, Oklahoma

October 20, 1972

Jodi

Re: X-Ray Mineral Analysis of 35 Surface Samples from
Ft. Yukon Basin, Alaska

*Two copies
and file*

File: Technical Service No. 6074SR
Job No. 5682

L.F

Mr. P. H. Garrison
Denver Division

The attached memorandum reports x-ray mineral analysis of 35 surface samples from Ft. Yukon Basin, Alaska. The technical service request was for 68 samples; however, 33 of the samples were missing.

Very truly yours,

WILLIAM R. WALTON

By

Eric R. Michaelis

Eric R. Michaelis

ERM:sd

Attachment

cc w/attachment: E. E. Lafaye
Terry Cooper
W. R. Walton/J. A. Momper



Amoco Production Company
Tulsa, Oklahoma

October 19, 1972

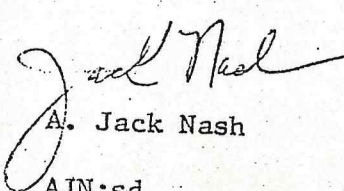
Re: X-Ray Mineral Analysis of 35 Surface Samples from
Ft. Yukon Basin, Alaska

File: Technical Service No. 6074SR
Job No. 5682

MEMORANDUM

Attached is the x-ray mineralogy of 35 outcrop samples from Ft. Yukon Basin, Alaska. The request was for 68 samples. Thirty-three of the samples were missing. The talc identified in the samples is most likely contamination from the sizing in sample sacks.

Calico Bluff Sample GWS-283FCf contained approximately 25% strontianite (SrCO_3), 5% dawsonite ($\text{NaAl}(\text{CO}_3)(\text{OH})_2$), and 5% barite (BaSO_4). The other samples collected from this area were siliceous calcites and dolomites.


A. Jack Nash

AJN:sd

Attachment

	% Quartz	% Calcite	% Dolomite	% Barite	% Feldspar	% Talc	% Celestite	% Strontianite	% Dawsonite	% Pyrite
<u>FORT CREEK (cont'd)</u>										
ARO-49-CF	1	99	-	-	-	-	-	-	-	-
ARO-48-FC	1	98	1	-	-	-	-	-	-	-
ARO-46-F	1	77	22	-	-	-	-	-	-	-
<u>LINEAR RIDGE</u>										
GWS-68-LCF	-	14	85	-	I	-	-	-	-	-
GWS-59-LFC	3	95	2	TR	-	-	-	-	-	-
GWS-66-LFC	2	93	5	TR	-	-	-	-	-	-
GWS-62-LCF	1	95	4	TR	-	-	-	-	-	-
GWS-71-CF	1	97	2	-	-	-	-	-	-	-
<u>JONES RIDGE</u>										
GWS-303-FL	1	99	-	-	-	-	-	-	-	-
GWS-305-FfL	1	99	-	-	-	-	-	-	-	-
GWS-300-F & L	2	98	-	-	TR	-	-	-	-	-
LCF-253-F	8	86	6	-	-	-	-	-	-	-
LCF-251-F	26	34	40	-	TR	-	-	-	-	-

OUT OP FT. YUKON BASIN, ALASKA

Mineral Percentages

Sample No.	Quartz	Feldspar	Calcite	Dolomite	Pyrite	Illite	Montmor- illonite	Siderite	Hornblende
GWS 22 LC	3	-	-	97	-	-	-	-	-
" 23 "	5	TR	1	94	-	TR	-	-	-
" 25 "	2	TR	-	98	-	-	-	-	-
" 27 LCF	2	1	3	94	-	-	-	-	-
" 30 "	2	-	-	98	-	-	-	-	-
" 32 F	4	1	-	95	-	-	-	-	-
" 36 LC	4	1	1	94	-	-	-	-	-
" 208 F	3	-	96	1	-	-	-	-	-
" 235 LC	1	-	99	-	-	-	-	-	-
" 243 F	1	-	99	-	-	-	-	-	-
" 261 CF	5	-	92	3	-	-	-	-	-
" 263 LF	2	-	98	-	-	-	-	-	-
" 299 LCF	1	-	99	TR	-	-	-	-	-
HRL 35 LCF	2	-	97	1	-	-	-	-	-
" 39 "	TR	-	99	1	-	-	-	-	-
" 43 "	1	-	98	1	-	-	-	-	-
" 47 "	1	-	99	TR	-	-	-	-	-
" 50 "	1	-	99	-	-	-	TR	-	-
" 56 "	1	-	99	TR	-	-	-	-	-
LCF 59	2	-	98	-	-	-	-	-	-
" 67 FL	80	2	2	-	-	15	-	1	TR
" 250 FCF	3	-	96	1	-	-	-	-	-
" 258 CF	1	-	99	TR	-	-	-	-	-
" 259 "	2	-	97	1	-	-	-	-	-
" 260 "	-	-	99	-	1	-	-	-	-
ARØ 204 LC	3	-	97	-	-	-	-	-	-

TR = TRACE



Amoco Production Company
Tulsa, Oklahoma

December 13, 1972

Re: X-ray Mineralogy of Outcrop Samples from Ft. Yukon Basin, Alaska

File: Technical Service 6074SR, Job 5682

P. H. Garrison
Attention: Lloyd Furer
Denver Division

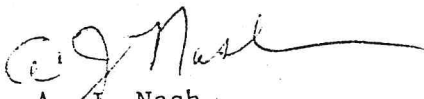
Dear Sir:

Attached is a list of 26 outcrop samples from Ft. Yukon Basin Alaska with the mineralogy determined by x-ray diffraction.

The mineralogy of 34 of the samples from the list of 69 samples requested was reported October 1972.

Four samples GWS-35CF, GWS-206L, GWS-297LCF and GWS-258F were missing. Two samples GWS-261L and GWS-35CF were duplicate numbered samples. The sample sack with sample No. LCF-252F was empty.

Yours very truly,


A. J. Nash
AJN:uw

Attachment

cc: W. R. Walton
E. R. Michaelis

OUI OP FT. YUKON BASIN, ALASKA

Mineral Percentages

Sample No.	Quartz	Feldspar	Calcite	Dolomite	Pyrite	Illite	Montmor- illonite	Siderite	Hornblende
GWS 22 LC	3	-	-	97	-	-	-	-	-
" 23 "	5	TR	1	94	-	TR	-	-	-
" 25 "	2	TR	-	98	-	-	-	-	-
" 27 LCF	2	1	3	94	-	-	-	-	-
" 30 "	2	-	-	98	-	-	-	-	-
" 32 F	4	1	-	95	-	-	-	-	-
" 36 LC	4	1	1	94	-	-	-	-	-
" 208 F	3	-	96	1	-	-	-	-	-
" 235 LC	1	-	99	-	-	-	-	-	-
" 243 F	1	-	99	-	-	-	-	-	-
" 261 CF	5	-	92	3	-	-	-	-	-
" 263 LF	2	-	98	-	-	-	-	-	-
" 299 LCF	1	-	99	TR	-	-	-	-	-
HRL 35 LCF	2	-	97	1	-	-	-	-	-
" 39 "	TR	-	99	1	-	-	-	-	-
" 43 "	1	-	98	1	-	-	-	-	-
" 47 "	1	-	99	TR	-	-	-	-	-
" 50 "	1	-	99	-	-	-	TR	-	-
" 56 "	1	-	99	TR	-	-	-	-	-
LCF 59	2	-	98	-	-	-	-	-	-
" 67 FL	80	2	2	-	-	15	-	1	TR
" 250 FCF	3	-	96	1	-	-	-	-	-
" 258 CF	1	-	99	TR	-	-	-	-	-
" 259 "	2	-	97	1	-	-	-	-	-
" 260 "	-	-	99	-	1	-	-	-	-
ARØ 204 LC	3	-	97	-	-	-	-	-	-

TR = TRACE