360
DMA-1160X

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

DMA

OCT 2 1951

Mr. G. F. Royal
Post Office Box 12
Aspen, Colorado

Subject: DMA-1160X - Application for exploration loan - Pitkin County, Colorado - Iron and Manganese.

My dear Mr. Royal:

Your application for a loan to explore an iron-manganese deposit located in Pitkin County, Colorado, has been reviewed by this agency and, I regret to inform you, has been denied for the following reason:

Field investigations indicate that the proposed exploration is not justified for the reason that the quantity and quality of iron-manganese mineralization are insufficient to assure a commercial deposit.

Sincerely yours,

Tom Lyon

Tom Lyon, Director
Supply Division

md
10/1/51
Copy to: Acting Administrator
DMA Field Team, Region IV
Mr. Thayer, U.S.G.S.
Mr. Lyon
Mr. Pesonen
Reports & Records Docket

August 13, 1958

Memorandum

To: Executive Secretary, Defense Minerals Administration

From: DMA Field Team, Region IV

Subject: DMA Project 11608, Wonder Lode, G. F. Kopel, Aspen, Pitkin County, Colorado

Enclosed are the brochure, the original and two copies of the report on the above project.

We concur with the consulting team and recommend that the loan be denied.

J. H. Ewing, Jr.
J. H. Ewing, Jr.

A. H. Koschmann
A. H. Koschmann

Enclosures:
One copy by Air Mail
Two copies by Regular Mail

JFS:oj
cc: AHKoschmann
DMA files
Subject
Chronological

Mining Division
Region IV

August 13, 1951

Memorandum

To: DMA Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: DMA Project 1140K, Frazier Lake, G. F. Royal, Aspen, Pitkin County, Colorado

We concur with the examining team in recommending denial of the above application for an exploration project at an estimated cost of $4,000.

Paul K. Altmann

JFS:oj
cc: Koschmann
DMA
Subject
Chronological

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
DENVER, COLORADO

Region IV

Building 2-A
Denver Federal Center
August 7, 1951

Memorandum

To: A. H. Koschmann
200 New Custom House
Denver 2, Colorado

From: W. M. Traver, Jr.

Subject: Brochure DMA Docket 1160X

Please find enclosed the brochure on the subject docket which was transmitted to you by the Region IV Field Team, June 23, 1951.

The brochure was loaned to our examining engineer by O. D. Evans for use in writing the report.

W. M. Traver, Jr.

W. M. Traver, Jr.

enclosure

(Transmitted to Bureau of Mines as of 8/9/51.)-- A. H. Koschmann

6-308
(March 1947)

cc: P. T. Allsman
W. M. Traver, Jr.

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
Salt Lake City, Utah

Mining Division
Date Rec'd
JUL 26 1951
BUREAU OF MINES
Denver, Colorado

No. 10

Report to Mr. C. M. Harrer

Chemical Laboratory Report

Date received July 19, 1951

Date reported July 25, 1951

Serial No.	DESCRIPTION	Lot No.	Au	Ag	Cu	Pb	Zn	Fe	Mn	S	P		
	The Puzzler Lode Claim, Sec. 18, T. 11 S., R. 34 W., Columbia Min. Dist., Pitkin County, Colorado Project DMA 1160X												
97194	Stope	1	<.005	<0.1	<.05	<.1	0.05	3.2	0.4	.16	0.05		
95	Drift face	2	<.005	<0.1	<.05	0.1	<.05	1.2	0.25	.04	<0.01		
96	Side of drift	3	<.005	<0.1	<.05	<.1	<.05	0.6	0.1	.06	<0.01		
97	Drift face	4	<.005	0.5	<.05	0.4	0.15	7.7	1.15	2.03	0.07		
98	do.	5	<.005	0.1	<.05	<.1	0.25	14.5	2.8	.09	0.01		
99	Side of drift	6	<.005	<0.1	<.05	<.1	<.05	2.2	0.45	.06	<0.01		
97200	do.	7	<.005	0.2	<.05	<.1	0.05	2.6	0.35	.48	<0.01		

PTA

U. S. GOVERNMENT PRINTING OFFICE 16—33553-3

Signed H. E. Peterson

WMT:d:amh

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
DENVER, COLORADO

Region IV

Building 2-A
Denver Federal Center
August 7, 1951

Mining Division
Date Rec'd
AUG 1951
BUREAU OF MINES
Denver, Colorado

Memorandum

To: A. H. Koschmann
200 New Custom House
Denver 2, Colorado

From: W. M. Traver, Jr.

Subject: Brochure DMA Docket 1160X

Please find enclosed the brochure on the subject docket which was transmitted to you by the Region IV Field Team, June 23, 1951.

The brochure was loaned to our examining engineer by O. D. Evans for use in writing the report.

W. M. Traver, Jr.

enclosure

cc: PTAllsman
DMA 1160X
Chron.

WMT/m

Denver, Colorado

S. R. Zimmerley, Chief
Salt Lake Experiment Station
Chief, Colorado Branch, Mining Division

July 16, 1951

Sample Shipment

Enclosed please find three copies of Form 7353 covering a shipment of seven samples of sulfide ore from the Royal Prize Iron, manganese, lead deposit, Pitkin County, Colorado, DMA 1160X. Government Bill of Lading I-126340 (original and memorandum copy) are also enclosed.

Inasmuch as these are DMA samples it will be appreciated if you will expedite assay returns as much as possible.

W. M. Traver, Jr.

Encl.

cc: P. T. Allsman
DMA 1160X (2)
DMA Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

224 New Customhouse
Denver, Colorado

June 28, 1961

Memorandum

To: A. H. Koschmann (with brochure)

P. T. Allsman

From: DMA Field Team, Region IV

Subject: DMA Docket 1160X, G. F. Royal, Pitkin County, Colorado

Attached is the brochure on DMA 1160X and a letter of instructions from the Chairman of the Coordinating Committee. Please make the necessary investigations and comply with the instructions outlined in Mr. Lyon's letter.

P. T. Allsman, Alternate

A. H. Koschmann
A. H. Koschmann

Attachments

Dkt 1160M1

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

June 15, 1951

OFFICE
REGION IV
JUN 25 1951
BUREAU OF MINES
DENVER, COLORADO

Via Air Mail

Mr. J. H. East, Jr.
Executive Officer
DMA Field Team, Region IV
224 New Customhouse Building
Denver 2, Colorado

Subject: DMA-1160X - Field investigation - exploration loan of $2,000. G. F. Royal, Pitkin County, Colorado.

Dear Mr. East:

The subject application has been reviewed by the Iron Ores and Coordinating Committees.

Kindly make an examination as to the merits of this project and, providing you find conditions favorable, have the lessee sign the enclosed contract forms MF-200 and the owner sign the Landlord's Subordination Agreement, MF-202. (6 copies)

The owner of the patented claim is recorded in Washington to John R. Williams. Find out when the patent was conveyed to Emma C. Bradshaw, and if any liens or mortgages are held.

We are enclosing copy of the application Form MF-103 and the "Review of Application for Exploration Assistance", which are self-explanatory. The technical data Form MF-100 should also be submitted.

As time is of essence, you can base your decision on the approval or rejection of this project on a reconnaissance.

Very truly yours,

Tom Lyon
Chairman, Coordinating Committee

Enclosures

Lowell B. Moon
Member, Bureau of Mines

Edwin T. McKnight
Member, Geological Survey

Form 6-98

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

U. S. GOVERNMENT PRINTING OFFICE 16—53493-2

August 13, 1951

Memorandum

To: Executive Secretary, Defense Minerals Administration

From: DMA Field Team, Region IV

Subject: DMA Docket 1160X, Puzzler Lode, G. F. Royal, Aspen, Pitkin County, Colorado

Enclosed are the brochure, the original and two copies of the report on the above docket.

We concur with the examining team and recommend that the loan be denied.

J. H. East, Jr.

A. H. Koschmann

Enclosures
One copy by Air Mail
Two copies by Regular Mail

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Mining Division
Region IV

224 NEW CUSTOMHOUSE
DENVER 2, COLORADO

August 13, 1951

Memorandum

To: DMA Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: DMA Docket 1160X, Puzzler Lode, G. F. Royal, Aspen, Pitkin County, Colorado

We concur with the examining team in recommending denial of the above application for an exploration project at an estimated cost of $4,000.

Paul T. Allsman

Paul T. Allsman

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

200 New Customhouse
Denver 2, Colorado

July 30, 1951

Memorandum

To: DMA Field Team, Region IV

From: A. H. Koschmann

Subject: DMA Docket 1160X--Puzzler Claim, Near Ashcroft, Pitkin County, Colorado

Attached are 8 copies of the geologic report by O. D. Evans, U. S. Geological Survey, covering DMA Docket 1160X. Mr. Evans points out that geological conditions are unfavorable to the existence of a commercial iron-manganese deposit. He therefore recommends that the application be denied.

I concur with this recommendation.

A. H. Koschmann

A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Attachments (8)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
DENVER, COLORADO

Region IV

Building 2-A
Denver Federal Center
August 7, 1951

Mining Division
Date Rec'd.
AUG 10 1951
BUREAU OF MINES
Denver, Colorado

Memorandum

To: Chief, Mining Division, Region IV

From: W. M. Traver, Jr.

Subject: DMA Docket 1160X, Engineering Report on the Puzzler Lode, G. F. Royal, Aspen, Pitkin County, Colorado

Please find enclosed the original and seven copies of Harrer's engineering report on the subject docket.

The "Review of Application for Exploration Assistance", by Paul E. Pesonen, transmitted with the brochure asked the following questions which are not answered in the report:

17. (3) Will Colorado Fuel and Iron Corporation take ore?
(9) Would drilling be more feasible?

Obviously the answers to both questions are negative, the first due to the fact that the highest iron assay of samples taken was far below Colorado Fuel and Iron Corporation's requirements, and the second due to there being no likelihood of delineating commercial reserves by any method of exploration.

Both Evans, the Survey geologist, and Harrer, the Bureau of Mines engineer, recommend denial of the exploration loan request for $4,000.00. I am in accord with their findings.

We were not provided with a copy of the brochure and the one loaned us by Evans is being returned to Mr. Koschmann.

W. M. Traver, Jr.
W. M. Traver, Jr.

enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR
OSCAR L. CHAPMAN, SECRETARY

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

DMA-1160K, The Fussler Lode, G. F. Royal Leasee

Columbia Mining District

Pitkin County, Colorado

C. M. Harrer, Mining Engineer
Bureau of Mines

O. D. Evans, Geologist
U. S. Geological Survey

August 7, 1951

THE PUZZLER LODE, G. F. ROYAL LEASE
COLUMBIA MINING DISTRICT
PITKIN COUNTY, COLORADO

Summary, Conclusions, and Recommendations

By G. M. Harper
Mining Engineer
Bureau of Mines

and

O. D. Evans
Geologist
U. S. Geological Survey

THE PUZZLER LODE, G. F. ROYAL LEASE

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

By C. M. Herrer and O. D. Evans

The Puzzler Lode, patent no. 1058721, survey no. 20484, sec. 18, T. 11 S., R. 84 W., Columbia Mining District, Pitkin County, Colo., was examined on July 10, 1951, in company with G. F. Royal, of Aspen, Colo.

Iron and manganese occur as limonite and pellomelane or pyrolusite scattered throughout shattered limestone adjacent to a northwest-trending, steeply-dipping fault.

The quantity and quality of iron-manganese mineralization exposed in underground mine workings are insufficient to assure a commercial deposit. Geologic conditions indicate that a commercial deposit of iron manganese or other critical metals will not be found by further prospecting in the area.

This property is not an attractive iron, manganese, or lead mining venture and the proposed exploration is not justified. The loan of $4,000.00 is, therefore, not recommended for approval.

PUZZLER CLAIM

NEAR ASHCROFT, PITKIN COUNTY, COLORADO

DMA DOCKET 1160X

Geology

July 24, 1951

by O. D. Evans, Geologist
U. S. Geological Survey

Geology

FUZZLER CLAIM
NEAR ASHCROFT, PITKIN COUNTY, COLORADO

The Fuzzler Claim is approximately 6 miles south of Aspen, Colorado, on the west slope of Richmond Hill. Here a series of Paleozoic sediments were intruded by several types of igneous rocks during the Laramide revolution, and later folded and complexly faulted. The ores of the district have been deposited along these faults. Silver and lead are the main metals produced in the Aspen district.

The steep hillside at the Fuzzler claim is covered with float except for a few small outcrops of limestone which may be slump material. Mine workings cut through 15 feet of aplite and about 60 feet of broken, brecciated limestone with a 3-foot bed of red and yellow shale. See figure 3. The aplite-limestone contact is largely concealed by timber, but it appears to be vertical. The limestone is of Ordovician or Devonian age. It strikes N 25 degrees W and dips 67 degrees southwest. A fault marked by as much as 2 feet of grey gouge and fine grained breccia cuts the limestone, and has been drifted upon for 50 feet. This fault strikes N 60 degrees W and dips 66 to 74 degrees northeast. It shows increasing strength to the northwest. The limestone was probably shattered by movement along this fault.

Limonite with some pyrolusite and psilomelane is scattered throughout the broken limestone and in places are the predominant minerals. The heavy limonite in the hanging wall at the northwestern end of the fault contains numerous crystals of galena as much as 2 inches in diameter.

The galena is scattered throughout an area 2 to 3 feet in diameter. This occurrence of ore along a fault is typical of the Aspen district. The nearest known deposit of commercial grade was mined in the Little Annie mine, 2 miles to the northwest.

Conclusions

The grade and quantity of the iron and manganese in the Pussler workings is not sufficient to warrant the proposed crosscut at a lower elevation. Geological conditions are not favorable to the existence of a commercial iron-manganese deposit, and it is recommended that the application be denied.

THE PUZZLER LODE, G. F. ROYAL LEASE
COLUMBIA MINING DISTRICT
PITKIN COUNTY, COLORADO

Engineering Report

By C. M. Harter
Mining Engineer
Bureau of Mines

Engineering

THE PUZZLER LODE, G. F. ROYAL LEASE
COLUMBIA MINING DISTRICT
PITKIN COUNTY, COLORADO

CONTENTS

Engineering Report — Page

Introduction..... 1
Location, topography and physical features..... 1
History and production..... 2
Ownership and extent..... 2
Description of the deposit..... 2
Sampling..... 3
Minable ore reserves..... 3
Present status..... 3
Project proposal and costs..... 3
Conclusions..... 3
Recommendations..... 4

ILLUSTRATIONS

Figure — Follows Page

1. Location map, Puzzler Lode, Pitkin County, Colorado..... 1
2. Claim map, Puzzler Lode, Pitkin County, Colorado..... 1
3. Plan of Puzzler Lode near Ashcroft, Pitkin County, Colorado, showing geology, location of samples..... 4

THE PUZZLER LODE, G. F. ROYAL LEASE

ENGINEERING REPORT

By

C. M. Harrer

INTRODUCTION

The examination was made at the request of G. F. Royal, of Aspen, Colo., in connection with a proposed exploration loan of $4,000.00 under the Defense Production Act of 1950, Docket DMA-116CM, and was completed on July 10, 1951, by the author and D. L. Roberts, mining engineers, of the Colorado Branch, Bureau of Mines, Region IV, in the company of G. F. Royal, lessee, and D. B. Evans, geologist, of the U. S. Geological Survey.

LOCATION, TOPOGRAPHY AND PHYSICAL FEATURES

The Puzzler Lode, survey no. 26484, is located near the center of sec. 18, T. 11 S., R. 84 W., Columbia Mining District, Pitkin County, Colorado (fig. 1), about 11 miles by road south of Aspen. It is reached by driving 1.6 miles south of Aspen on Colorado State Highway 82 to the intersecting Castle Creek road; thence 9.0 miles southeast along the Castle Creek road. This point is also 3.1 miles by road, northwest of Ashcraft, Colo. This is about 2000 feet northeast of the Castle Creek road (fig. 2).

The Castle Creek road is a well maintained gravel road, open throughout the year.

Mine workings, at an altitude of 10,700 feet, are at present difficultly accessible over a narrow switchback mountain trail.

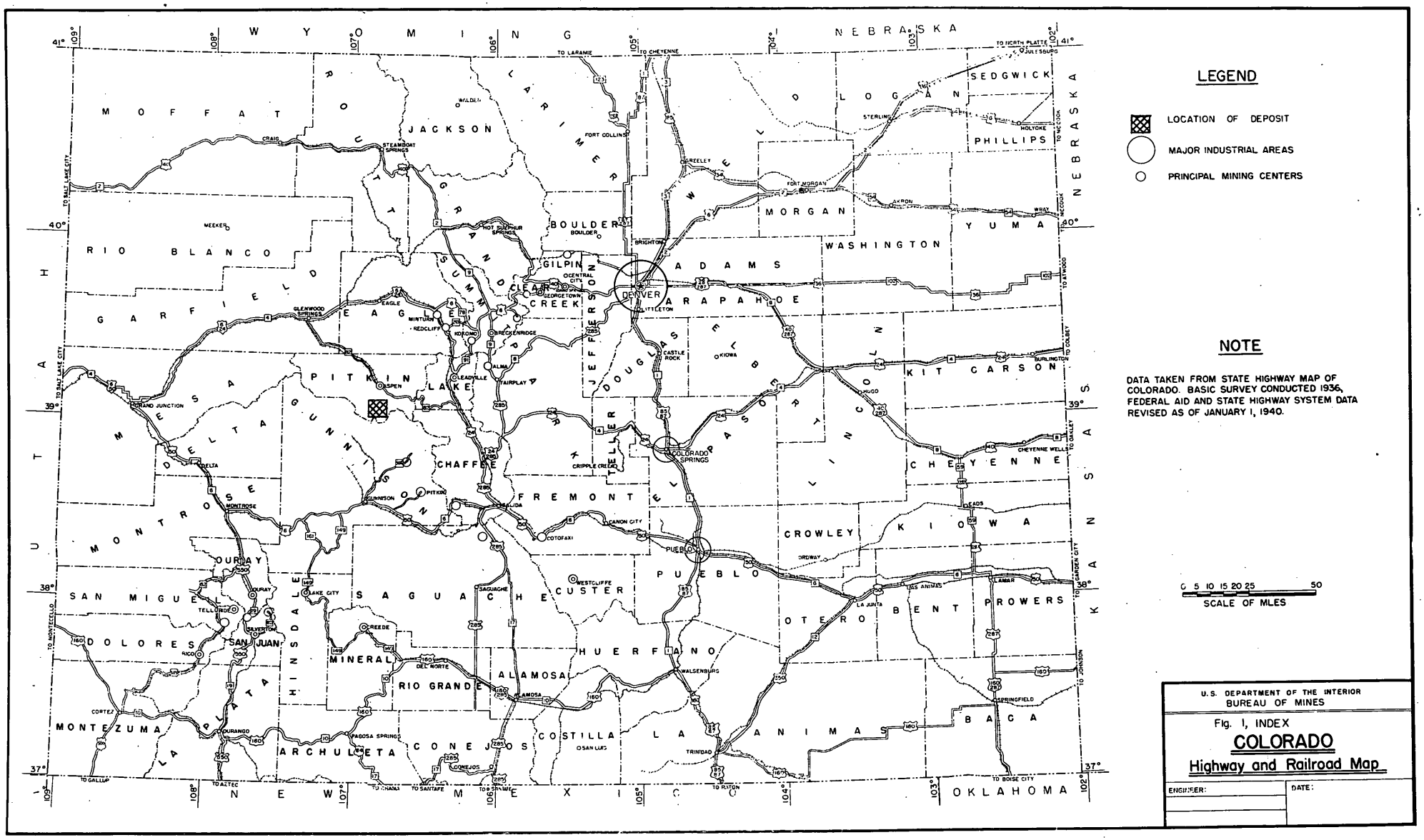


Fig. 1 - LOCATION MAP, PUZZLER LODE, PITKIN COUNTY, COLO. (DMA-1160X)

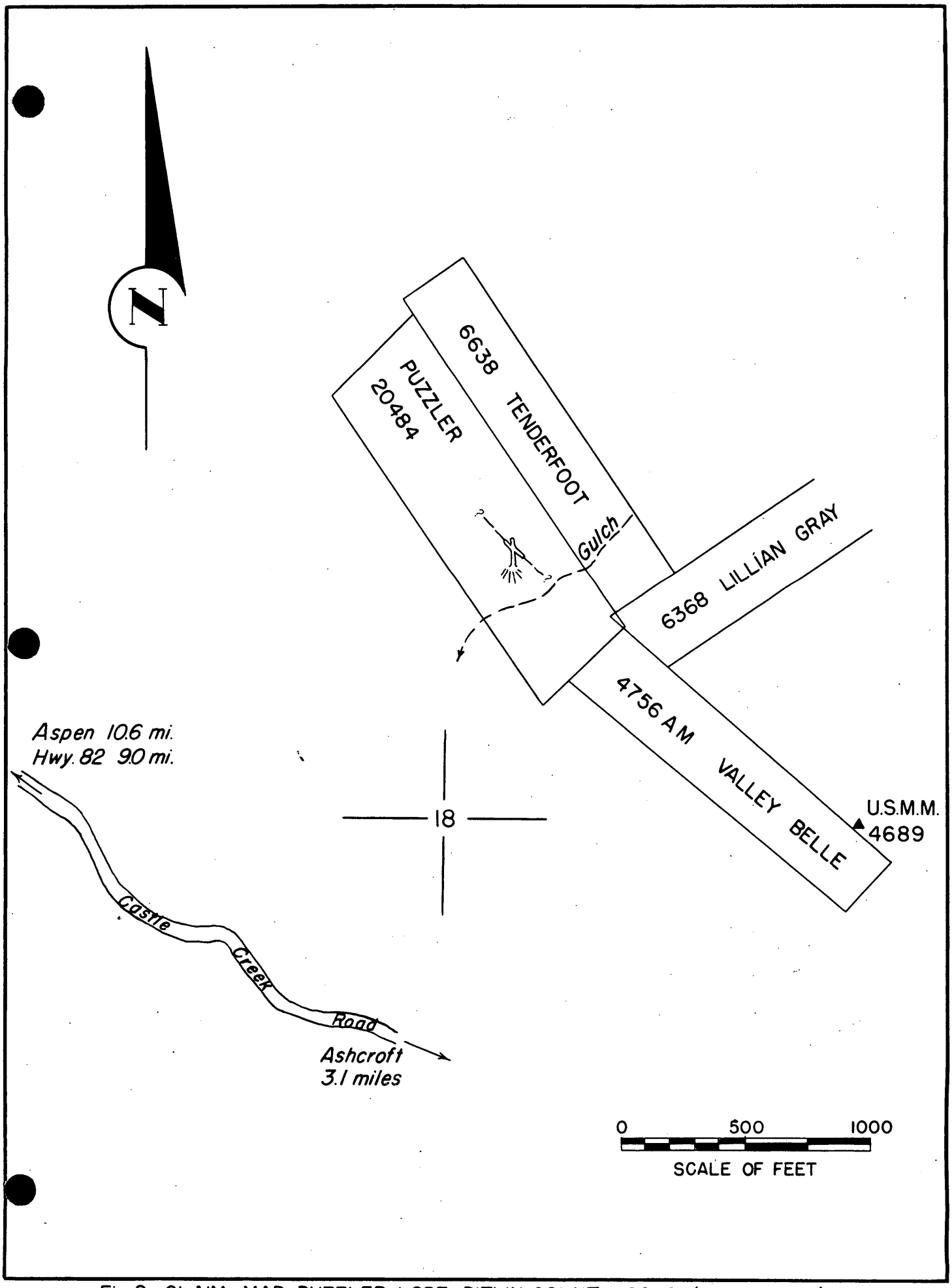


Fig. 2 - CLAIM MAP, PUZZLER LODE, PITKIN COUNTY, COLO. (DMA-1160X)

The terrain is steep and rugged and the slopes are well wooded and within the White River National Forest. Mining operations would require the construction of an access road. Water is obtainable from Castle Creek in the valley floor. The character of terrain is indicated on the Aspen U. S. Geological Survey quadrangle sheet.

HISTORY AND PRODUCTION

The Pussler Lode was originally owned by J. R. Williams to whom a patent (No. 1058721) was issued on Sept. 30, 1932. On his death the property passed to his daughter, Emma C. Bradshaw. The applicant, G. F. Royal, holds a two-year lease on the property.

There is no record of production from the property.

OWNERSHIP AND EXTENT

The loan applicant, G. F. Royal, of Aspen, holds a two-year lease with option-to-purchase the Pussler Lode claim for $2,000.00 from the owner, Emma C. Bradshaw, dated May 1, 1951. The lease-option agreement stipulates a royalty payment of 10 percent of net smelter or mill returns for ores valued at $100.00 or less per ton and a royalty of 25 percent of net mill or smelter returns for ores valued at over $100.00 per ton. Royalty payments will not apply towards the purchase price. Failure to pay the $2,000.00 purchase price of the claim within the two-year lease period voids the option-to-purchase agreement.

DESCRIPTION OF THE DEPOSIT

The deposit is a fault zone in shattered limestone with small and scattered patches of weak limonite, psilomelane, pyrolusite, and galena mineralization which will not develop into an ore body of commercial consequence.

SAMPLING

Seven samples were taken along the zone of mineralization to supplement geologic evaluation and their locations are shown and the analyses tabulated on the accompanying map, figure 3.

MINABLE ORE RESERVES

There are no minable ore reserves.

PRESENT STATUS

Development consists of 100 feet of crosscut adit and 75 feet of drifting in the weakly mineralized fault zone, figure 3.

Mining equipment consists of a wheelbarrow and a few hand tools.

PROJECT PROPOSAL AND COSTS

The applicant proposes to develop the weakly mineralized shear zone 100 feet below the present adit level with another 190-foot crosscut adit and 60 feet of drift on the mineralized fault zone, at an estimated cost of $4,000.00.

Since the mine is not equipped for exploration, a cost of $30.00 per foot of advance, including equipment rental, is believed more realistic. Cost of the exploration project on this basis is estimated by the examining engineer at $7,500.00 and it will require five months to complete the project.

Local labor from the Aspen-Ashcroft area would be employed at $1.00 to $1.65 per hour.

CONCLUSIONS

The Puzzler Lode prospect does not present a favorable geologic environment for the development of an iron-manganese deposit of commercial importance.

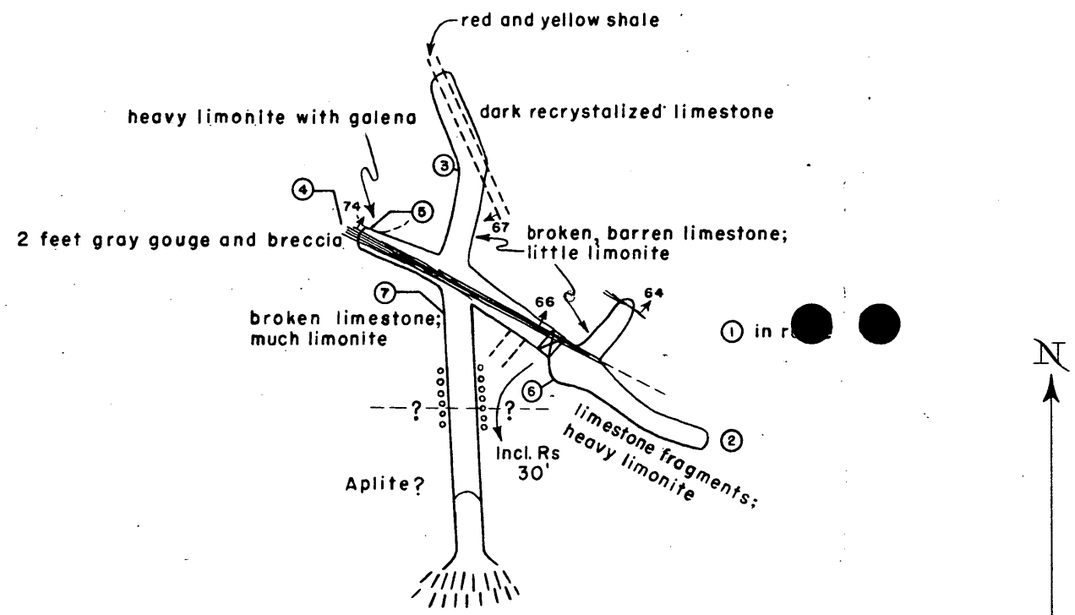
Limonite, psilomelane, pyrolusite, and galena mineralization is spotty and very weak and analyses shown on figure 3 bear out the

contention that no appreciable iron, manganese, or galena as ore is present, and the existence of minable ore bodies within the limits of the claim is considered unlikely.

Exploration of the weakly mineralized fault zone at the proposed horizon, 100 feet below present development, is not justified by present indications.

RECOMMENDATIONS

The applicant's proposed exploration loan for $4,000.00 is not recommended for approval.



Sample No.	Width	Au Oz	Ag Oz	Cu %	Pb %	Zn %	Fe %	Mn %	S %	P %
1 (H-502)	3.0'	<.005	<0.1	< .05	< .1	0.05	3.2	0.4	.16	0.05
2 (H-503)	5.0'	<.005	<0.1	< .05	0.1	< .05	1.2	0.25	.04	<0.01
3 (H-504)	4.5'	<.005	<0.1	< .05	< .1	< .05	0.6	0.1	.06	<0.01
4 (H-505)	3.0'	<.005	0.5	< .05	0.4	0.15	7.7	1.15	2.03	0.07
5 (H-506)	3.0'	<.005	0.1	< .05	< .1	0.25	14.5	2.8	.09	0.01
6 (H-507)	3.0'	<.005	<0.1	< .05	< .1	< .05	2.2	0.45	.06	<0.01
7 (H-508)	8.0'	<.005	0.2	< .05	< .1	0.05	2.6	0.35	.48	<0.01

< Less Than

Department of Interior
U. S. GEOLOGICAL SURVEY

Plan of
PUZZLER LODE
near Ashcroft, Pitkin County, Colorado
showing geology, location of samples
July 24, 1951

① Sample Number — Scale: 1" = 30'

Geology by O. D. Evans
Sampling by C. M. Harrer and D. L. Roberts, U.S. Bureau of Mines.

DMA DOCKET 1160X — Fig. 3