STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

DENIED

TO : Administrator, DMEA

DATE: December 11, 1953

FROM : Iron and Ferro-Alloys Division, DMEA

SUBJECT: Review of denial of application by Field Team, Region IV
Docket No. DMEA 3171 - Tungsten
Mining Ventures, Inc.
Charlene No. 1 mining claim
Freemont County, Colorado

I concur
CBM

The applicant requested exploration assistance in the amount of $14,477.53 to explore for tungsten by means of a 200-foot tunnel, a 30-foot crosscut, and a 50-foot raise on the Charlene No. 1 mining claim in Fremont County, Colorado.

The rocks of the area are pre-Cambrian schists and gneisses that have been intruded by Pikes Peak granite and pegmatite dikes. In a northwest trending belt, about 12 miles long by 7 miles wide, scheelite occurs as small crystals, flakes, grains and thin coatings associated with garnet, quartz, epidote and calcite in lime-silicate beds within the schist.

On the Charlene No. 1 claim the mineralization occurs along a series of nearly vertical, garnetized lime-silicate beds in schist and in places the deposits appear to parallel pegmatite dikes.

The present workings on the property consist of a 33-foot adit, a 35-foot discovery cut, and a shallow cut about 1000 feet north of the discovery cut.

Eight samples were taken by the examining team and gave the following results:

Sample No.	Type	Sample Length	Percent WO_3	Description
CB-59	Cut	2.5	< 0.01	Breast of Tunnel
CB-60	Grab	-	< 0.01	Pile at mouth of discovery cut
CB-61	Cut	12.0'	< 0.01	12' N. from mouth of discovery cut
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CB-72	Cut	11.5'	<0.01	1000' N. of CB-59
CB-73	Cut	5.1'	<0.01	1500' N. of CB-59

<= Less than

Sampling disclosed no ore of minable grade. The field team believed that there was little possibility that the exploration work proposed by the applicant would open up minable tungsten ore and recommended, therefore, that the application be denied.

We concur in the denial.

W S Martin
Chief, Iron and Ferro-Alloys Division

FILE COPY
SURNAME:

UNITED STATES
DEPARTMENT OF THE INTERIOR

Administrator, DMEA

DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

December 11, 1953

Hopkins
Martin

Iron and Ferro-Alloys Division, DMEA

Review of denial of application by Field Team, Region IV
Docket No. DMEA 3171 - Tungsten
Mining Ventures, Inc.
Charlene No. 1 mining claim
Freemont County, Colorado

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Sampling disclosed no ore of minable grade. The field team believed that there was little possibility that the exploration work proposed by the applicant would open up minable tungsten ore and recommended, therefore, that the application be denied.

We concur in the denial.

CC: Docket
Code 400
Adm. Read. File

JHopkins/ls

Chief, Iron and Ferro-Alloys Division

400

Administrator, DMEA

December 11, 1953

Iron and Ferro-Alloys Division, DMEA

Review of denial of application by Field Team, Region IV
Docket No. DMEA 3171 - Tungsten
Mining Ventures, Inc.
Charlene No. 1 mining claim
Freemont County, Colorado

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* < = Less than

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We concur in the denial.

CC: Docket
Code 400
Adm. Read. File

JHopkins/ls

Chief, Iron and Ferro-Alloys Division

Administrator, DMEA

December 11, 1953

Iron and Ferro-Alloys Division, DMEA

Review of denial of application by Field Team, Region IV
Docket No. DMEA 3171 - Tungsten
Mining Ventures, Inc.
Charlene No. 1 mining claim
Fremont County, Colorado

The applicant requested exploration assistance in the amount of $14,477.53 to explore for tungsten by means of a 200-foot tunnel, a 30-foot crosscut, and a 50-foot raise on the Charlene No. 1 mining claim in Fremont County, Colorado.

The rocks of the area are pre-Cambrian schists and gneisses that have been intruded by Pikes Peak granite and pegmatite dikes. In a northwest trending belt, about 12 miles long by 7 miles wide, scheelite occurs as small crystals, flakes, grains and thin coatings associated with garnet, quartz, epidote and calcite in lime-silicate beds within the schist.

On the Charlene No. 1 claim the mineralization occurs along a series of nearly vertical, garnetized lime-silicate beds in schist and in places the deposits appear to parallel pegmatite dikes.

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* = Less than

Sampling disclosed no ore of minable grade. The field team believed that there was little possibility that the exploration work proposed by the applicant would open up minable tungsten ore and recommended, therefore, that the application be denied.

We concur in the denial.

CC: Docket
Code 400
Adm. Read. File

JHopkins/ls

Chief, Iron and Ferro-Alloys Division

MDL-4

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 16 1953

224 New Customhouse
Denver 2, Colorado

November 12, 1953.

Memorandum

To: Administrator, Defense Minerals Exploration Administration
Attention: 200

From: Field Team, Region IV

Subject: Report of Examination - DMEA Docket 3171 (Tungsten), Mining Ventures, Inc., Charlene No. 1, Fremont County, Colorado.

Enclosed are four copies of the report of examination on the subject docket, a copy of the letter of denial to the applicant, and two copies of Form 3b.

W. H. King

W. H. King

E. N. Harshman

E. N. Harshman
For A. H. Koschmann

Enclosures

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 16 1953

224 New Customhouse
Denver 2, Colorado

November 13, 1953.

Mr. Howard D. Kellogg, President
Mining Ventures, Inc.
303 Don Durant Building
Pueblo, Colorado

Re: Docket No. DMEA-3171

Dear Mr. Kellogg:

Reference is made to your application for Government aid on the Charlene No. 1.

Projects approved by the Defense Minerals Exploration Administration must, in its judgment, show definite promise of yielding material of acceptable grade, and in quantities that will significantly improve the mineral supply position for the National Defense Program.

A careful study of your property and data available to this agency reveals that the probability of disclosing mineable reserves of Tungsten is not considered sufficiently promising to justify Government participation. Under these circumstances, we regret to advise that your application for exploration aid is denied.

Very truly yours,

W H King
W. H. King
Field Team, Region IV

E. N. Harshman
for A. H. Koschmann
Field Team, Region IV

HMC:cwm

cc: Docket
Administrator, DMEA
WMTraver
AHKoschmann (2)
Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

DEPARTMENT OF THE INTERIOR
Bureau Mines Administration
RECEIVED
NOV 16 1953

Mining Division
Region IV

November 13, 1953.

Memorandum

To: Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: Report of Examination - Docket 3171 (Tungsten), Mining Ventures, Inc., Charlene No. 1, Fremont County, Colorado.

Enclosed are eight copies of the engineering report of examination on the subject docket.

The applicant proposed to explore for scheelite by means of a 200 foot drift, a 20 foot crosscut, and a 50 foot raise at an estimated cost of $14,477.53.

The examiners conclude that there is little chance of finding a significant amount of scheelite and they recommend that the application be denied.

We concur in this recommendation.

W. H. King
W. H. King

Enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
November 5, 1953

Memorandum

To: Executive Officer, Field Team, Region IV

From: Chief, Mineral Resources Branch, Mining Division, Region IV

Subject: DMEA 3171, (Tungsten) Mining Ventures, Inc., Charlene No. 1 claim), Fremont County, Colorado

Transmitted herewith are the original and eight copies of the "Summary, Conclusions, and Recommendations" by Carl Belser, Bureau of Mines, and D. R. MacLaren, Geological Survey, and of Belser's engineering report on the subject docket.

Belser concludes after his examination and careful sampling that the exploration proposal comprising 200 feet of adit with 50 feet of raise and 20 feet of crosscut at an over-all cost of $14,477.53 is unlikely to result in the development of any reserves of minsable tungsten ore and recommends denial of the application.

I concur with his conclusions and recommendation.

The brochure, containing the MF-103 form complete with two sketch maps, furnished with your memorandum of September 15, 1953, instructing us to prepare a suitable report, is also returned. An engineering report by S. J. Burris, E. M., was returned with the brochure on DMEA 3172.

W. M. Traver

W. M. Traver

enclosure

WMT/kp

cc /8
DMEA 3171
Chron

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.
Denver Federal Center
Denver 2, Colorado

November 2, 1953

Memorandum

To: DMEA Field Team, Region IV

From: A. H. Koschmann

Subject: DMEA Docket 3171, Mining Ventures, Inc., Charlene No. 1 Claim, Fremont County, Colorado

Attached are 8 copies of the geological report by D. R. MacLaren covering DMEA Docket 3171, Mining Ventures, Inc., Charlene No. 1 claim, Fremont County, Colorado.

The applicant proposes to explore for tungsten ore (scheelite) by means of a 200-foot drift, a 20-foot crosscut, and a 50-foot raise at an estimated cost of $14,477.53.

Scheelite occurs as small crystals, flakes, grains, and thin coatings associated with garnet, quartz, epidote, and calcite in lime-silicate beds in pre-Cambrian schist.

Assays of samples taken by the U. S. Bureau of Mines indicate that the deposit is very low grade. MacLaren concludes that there is little chance of finding a significant deposit of scheelite, and recommends denial of the application.

I concur in this recommendation.

E. N. Harshman
for A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Enclosures (8)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

DMEA 3171, Charlene No. 1 Claim

Mining Ventures, Inc.

Fremont County, Colo.

Tungsten

Carl Belser, Mining Engineer
Bureau of Mines

D. R. MacLaren, Geologist
Geological Survey

October 9, 1953

DMEA 3171

CHARLENE NO. 1 CLAIM
MINING VENTURES, INC.
FREMONT COUNTY, COLO.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 16 1953

Summary, Conclusions, and Recommendations

By Carl Belser
Mining Engineer
Bureau of Mines

and

D. R. MacLaren
Geologist
Geological Survey

DMEA 3171

CHARLENE NO. 1 CLAIM
MINING VENTURES, INC.
FREMONT COUNTY, COLO.

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

By Carl Belser and D. R. MacLaren

Mining Ventues, Inc., Dr. Howard Kellogg, President, 303 Bon Durant Building, Pueblo, Colo., applied for a Defense Minerals Exploration Administration loan of $14,477.53 to explore the Charlene No. 1 claim for tungsten by driving 200 feet of adit, 50 feet of raise, 20 feet of crosscut, improving the access road, and preparing a tunnel site.

A field investigation was made on September 17, 18, and 23, 1953, by an examining team from the Geological Survey and Bureau of Mines.

The rocks of the area are pre-Cambrian schists and gneisses, largely of sedimentary origin, that have been intruded by Pikes Peak granite and pegmatite dikes. The rocks, for the most part, have been covered by Tertiary volcanic flows, breccias, agglomerates, and tuffs. In a northwest trending belt, about 12 miles long by 7 miles wide, scheelite occurs as small crystals, flakes, grains, and thin coatings associated with garnet, quartz, epidote, and calcite in lime-silicate beds within the schist.

On the Charlene No. 1 claim the deposition occurs along a northwesterly trending series of nearly vertical, garnetized lime-silicate beds in schist and in places the deposits appear to parallel pegmatite dikes.

No ore production has been made from the property, and no substantial production of tungsten ores has been made from the area.

Sampling results were negative, and the possibility of discovering a significant deposit of tungsten ore on the property is poor. Therefore, it is recommended that the application be denied.

MINING VENTURES, INC.

CHARLENE NO. 1 CLAIM

FREMONT COUNTY, COLORADO

DMEA DOCKET 3171

Geologic Report

By D. R. MacLaren
U. S. Geological Survey

CHARLENE NO. 1 CLAIM
FREMONT COUNTY, COLORADO

INTRODUCTION

Mining Ventures, Inc. of Pueblo, Colorado, has applied to the Defense Minerals Exploration Administration for assistance to explore for tungsten in Fremont County, Colorado. The applicant proposes to explore on the Charlene No. 1 claim in sec. 3 and 10, T. 16 S., R. 73 W., by driving 200 feet of drift, 20 feet of crosscut, and 50 feet of raise at an estimated cost of $14,477.53 (Government's share 75 percent or $10,858.15).

The Charlene No. 1 claim is 7 miles south and 1 mile west of Guffy, and is reached from State Highway 9 by 6 miles of poor road, most of which follows the bed of a stream that branches off from Current Creek and is impassable during periods of rain and melting snow. The property was first visited July 17, 1953, accompanied by Carl Belser and Will Dare of the U. S. Bureau of Mines, William T. Burris and Harry Green, respectively vice-president and engineer for the applicant company, during the examination for DMEA Docket 3114. September 23, 1953, the property was again visited in company with C. M. Harrer of the Bureau of Mines for the purpose of mapping for this report.

It is concluded that the chance of finding a significant deposit of scheelite on this claim is poor, and therefore it is recommended that the application be denied.

GEOLOGY

The rocks of the area are pre-Cambrian schist and gneiss, largely of sedimentary origin, that have been intruded by Pikes Peak granite and

pegmatite dikes. To the north and west these rocks have, for the most part, been covered by Tertiary volcanic flows, breccias, agglomerates, and tuffs. In a northwest trending belt, about 12 miles long and 7 miles wide, scheelite occurs as small crystals, flakes, grains, and thin coatings associated with garnet, quartz, epidote, and calcite in lime silicate beds within the schist.

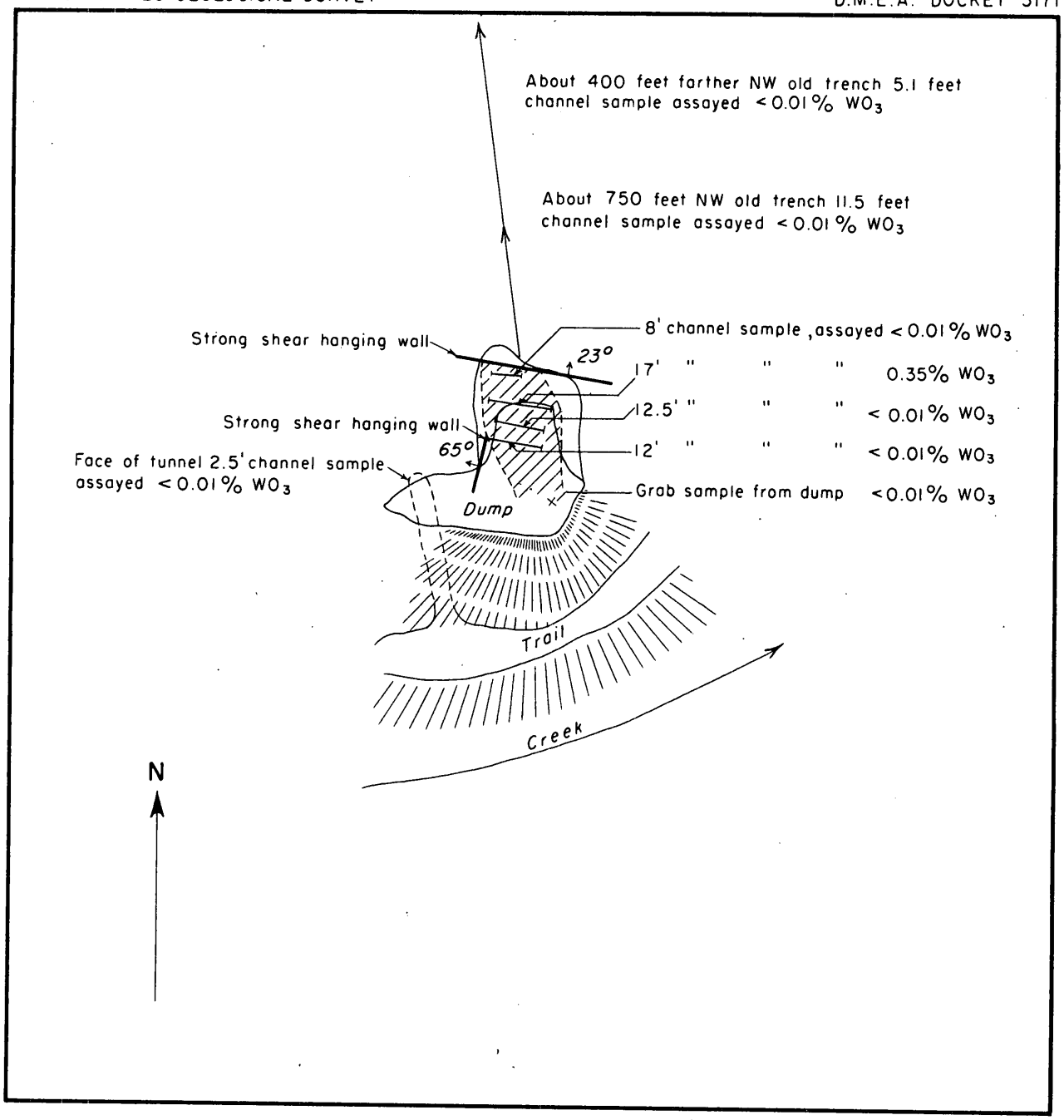
On the Charlene No. 1 claim a rather large open cut (figure 2) has exposed a mineralized zone about 15 feet wide and at least 35 feet long. Examined under a mineral light it was found that scheelite was irregularly scattered throughout the zone with possibly a slight concentration favoring a 24 to 30-inch streak toward the west side. The back end of the open cut exposed the mineralized zone for a vertical distance of about 12 feet. Near the top of the cut across the back end, a strong shear that strikes N. 80° W. and dips 23° N. terminates the lenslike zone of mineralization. Four channel samples from the open cut and a grab from the dump, taken by the Bureau of Mines examiners and shown on figure 2, are discouragingly low except for one 17-foot channel that assayed 0.35 percent WO_3. Although the length of the channels might appear excessive, they are acceptable because if it is assumed that one foot contained 1 percent WO_3 and the remaining eleven feet of a twelve foot cut contained no WO_3 whatsoever, the average for the twelve feet would still be 0.10% WO_3. Below the open cut and a few feet west, a tunnel was driven for about 40 feet in a hard siliceous rock. A 2.5 foot channel sample of the face assayed less than 0.01 percent WO_3. At distances of about 750 feet and 250 feet NW of the open cut two old trenches expose similar lime silicate rocks. Samples from these trenches assayed less than 0.01% WO_3. No exposures of "veins" were seen between the open cut and the two old trenches.

CONCLUSIONS AND RECOMMENDATIONS

It is concluded that small, probably lenslike beds of lime silicate within the schist contain scheelite in small amounts and that the chance of discovering a significant deposit on this claim is poor. Therefore it is recommended that this application be denied.

DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

D.M.E.A. DOCKET 3171



Geology by D.R. MacLaren
October, 1953

FIGURE 2.– PLAN SHOWING WORKINGS ON CHARLENE NO.1 CLAIM, MINING VENTURES INCORPORATED, FREMONT COUNTY, COLORADO.

40 0 40 Feet

DMEA 3171

CHARLENE NO. 1 CLAIM
MINING VENTURES, INC.
FREMONT COUNTY, COLO.

Engineering Report

By Carl Belser
Mining Engineer
Bureau of Mines

DMEA 3171

CHARLENE NO. 1 CLAIM
MINING VENTURES, INC.
FREMONT COUNTY, COLO.

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Mining and milling equipment and other facilities	5
Proposed exploration, with estimated costs	5
Conclusions	6
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ILLUSTRATIONS

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1.	Location map, Charlene No. 1, Mining Ventures, Inc., Fremont County, Colo	2
2.	Plan showing surface workings on Charlene No. 1 claim, Mining Ventures, Inc., Fremont County, Colo	4

DMEA 3171

CHARLENE NO. 1 CLAIM
MINING VENTURES, INC.
FREMONT COUNTY, COLO.

ENGINEERING REPORT

By

Carl Belser

INTRODUCTION

Mining Ventures, Inc., Dr. Howard Kellogg, President, and William T. Burris, Secretary and Treasurer, 303 Bon Durant Building, Pueblo, Colo., on August 4, 1953, submitted an application to the Defense Minerals Exploration Administration for aid in an exploration project on the Charlene No. 1 claim, located in Fremont County, Colo. The application, DMEA 3171, proposed driving 200 feet of adit, 50 feet of raise, 20 feet of crosscut, repairing the access road, and preparing a tunnel site at an estimated cost of $14,477.53 of which the Government's participation (75 percent for tungsten) would be $10,858.15. This proposed project is designed to explore a tungsten-bearing deposit which has been opened on surface.

A field examination of the Charlene No. 1 claim was made by representatives of the Bureau of Mines on September 17-18, 1953, and by a representative of the Geological Survey on September 23, 1953.

ACKNOWLEDGMENTS

Messrs. Harry Green and William T. Burris of Mining Ventues, Inc., conducted the examining team over the property on July 27, 1953, but

no representatives of the applicant were present during the September examination.

D. R. MacLaren, geologist, was assigned to make the examination as the Geological Survey member of the examining team, and W. L. Dare, mining engineer of the Bureau of Mines, accompanied the author on both examinations and assisted in the sampling.

LOCATION, TOPOGRAPHY, AND PHYSICAL FEATURES

The Charlene No. 1 claim is located on the north side of Mill Gulch in secs. 3 and 10, T. 16 S., R. 73 W., sixth principal meridian (fig. 1).

The claim is the southernmost of five Charlene claims which extend end to end in a northerly direction. The altitude at the discovery cut is about 7,800 feet.

An access road, in poor condition, 4.1 miles long, connects the property with State Highway No. 7, from whence it is 6.5 miles to Guffey, the nearest post office and store; 18.5 miles to Parkdale, the nearest railhead; and 26 miles to Canon City, county seat of Fremont County. Some native timber can be procured near the property, and native lumber can be purchased at Guffey. A small amount of water, suitable for mining and domestic purposes, flows down Mill Gulch. The nearest good mill site is at Parkdale where both ample water and electric power are available. Miners, required for exploratory work, can be hired in Guffey and Canon City, and housing facilities are available in Guffey.

Annual rainfall is about 15 inches. Although the winters are somewhat severe, State Highway No. 9 is kept open, and interruptions to year-around operation would be few.

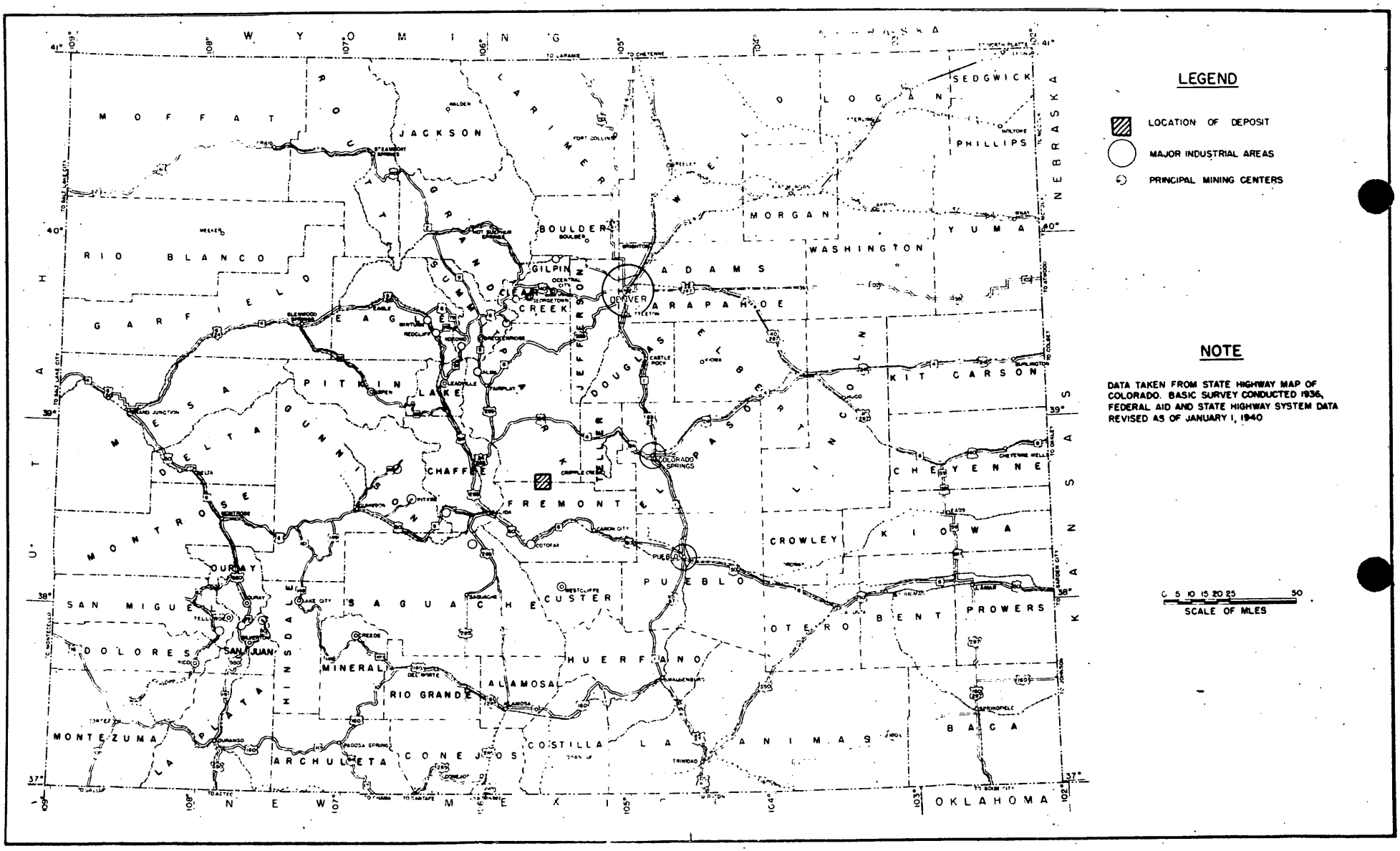


FIGURE 1. - LOCATION MAP, CHARLENE NO. 1 CLAIM, MINING VENTURES, INC., FREMONT COUNTY COLO (DMLA 31,1)

HISTORY AND PRODUCTION

Scheelite has been known to occur in the area for a number of years, and a few deposits have been worked intermittently on a small scale. The Charlene deposit was discovered by George E. and George A. West. Five claims were located. A surface cut, 12 feet wide and 35 feet long, was made at the point of discovery and a 33-foot long adit driven about 25 feet below the surface cut. An agreement was made between the Wests and Dr. Howard Kellogg on February 7, 1952. Mining Ventures, Inc., was organized on February 25 of the same year. Production, if any, has not been recorded.

OWNERSHIP AND EXTENT

The property consists of five unpatented claims held by right of location by George E. West, Clyde O. West, Arthur E. West, and Maud L. West, and leased to Mining Ventures, Inc. This lease was recorded on August 13, 1953, in Book 334, page (?), of the records of the County Clerk and Recorder of Fremont County, Colo. In the same records the five amended claims have been recorded as follows:

Claim	Book	Page
Charlene No. 1	327	313
Charlene No. 2	327	314
Charlene No. 3	327	315
Charlene No. 4	327	311
Charlene No. 5	327	312

The original certificates were recorded in Book 262 on pages 362, 363, and 364.

DESCRIPTION OF THE DEPOSITS

The ore occurs as scheelite in garnetized lime-silicate beds in schist. These beds appear to be nearly vertical and to roughly parallel pegmatite dikes. The garnetized lime-silicate zone can be followed to the north for over 1,500 feet.

In the discovery cut the widest exposure is 17 feet, and 1,000 feet to the north of the discovery cut the lime-silicate zone is 11.5 feet wide.

In general, the scheelite occurs as crystals, flakes, grains, and thin coatings associated with garnet, quartz, epidote, and calcite.

MINEABLE ORE RESERVES

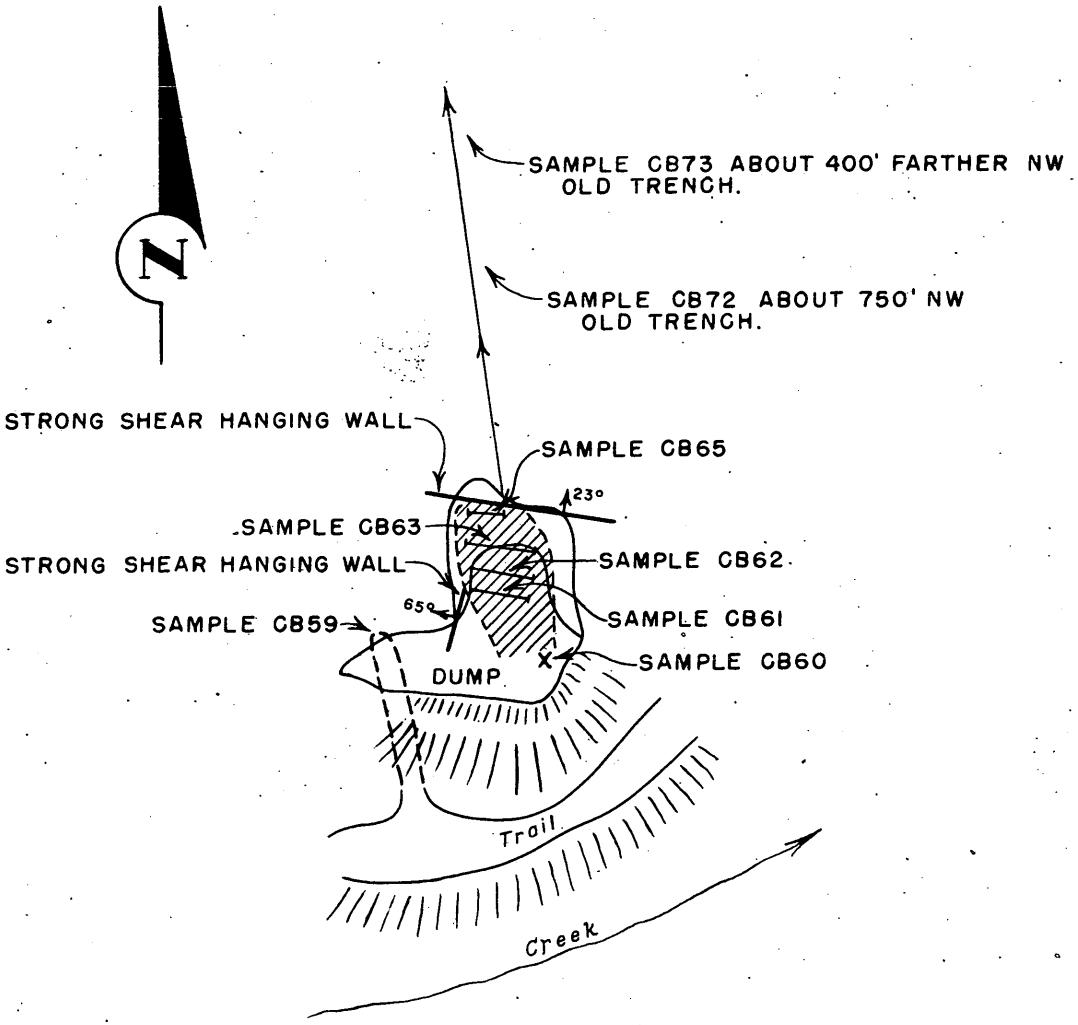
Sample locations are shown on figure 2. Eight samples were taken, crushed, split with a Jones sampler, and assayed by the Region IV Metallurgical Division of the Bureau of Mines at Salt Lake City, Utah. Sample results follow:

Sample No.	Type	Sample length (feet)	Percent WO_3	Description
CB-59	Cut	2.5	<0.01	Breast of tunnel.
CB-60	Grab	--	<0.01	Grab of ore (?) pile at mouth of discovery cut.
CB-61	Cut	12.0	<0.01	12 feet north from mouth of discovery cut.
CB-62	Cut	12.5	<0.01	6 feet north and 6 feet above CB-61.
CB-63	Cut	17.0	0.35	9 feet north and 9 feet above CB-62.
CB-64	Cut	8.0	<0.01	6 feet north and 6 feet above CB-63.
CB-72	Cut	11.5	<0.01	1,000 feet north of CB-59.
CB-73	Cut	5.1	<0.01	1,500 feet north of CB-59

< less than

A composite of all eight samples assayed 0.04 percent in phosphorus.

Sample CB-64 was taken over a width of 17 feet. A portion of this width probably runs considerably higher than the assay shown. However,



SAMPLE DATA

SAMPLE NO.	LENGTH FEET	TYPE	PERCENT	
			WO_3	P
CB59	2.5'	CHANNEL	<0.01	
CB60	.	GRAB	<0.01	
CB61	12.0	CHANNEL	<0.01	
CB62	12.5	CHANNEL	<0.01	
CB63	17.0	CHANNEL	<0.35	
CB64	8.0'	CHANNEL	<0.01	
CB72	11.5	CHANNEL	<0.01	
CB73	5.1	CHANNEL	<0.01	

< LESS THAN

0 40 80

SCALE IN FEET

MINERAL RESOURCES BRANCH
MINING DIV. - REGION IV
BUREAU OF MINES

FIGURE 2 - PLAN SHOWING SURFACE WORKINGS ON CHARLENE NO.1 CLAIM, MINING VENTURES INC., FREMONT COUNTY, COLO. (DMEA 3171)

no tungsten values were found in the adjacent samples. The results of the sampling indicate that the tungsten content of the deposit is low and not of mineable grade.

Samples CB-61, CB-62, and CB-63 were reassayed and the same results reported as in the original assaying.

PRESENT STATUS

Exploration and Development

All present working are shown on figure 2. They consist of a 33-foot adit, a 35-foot discovery cut, and a shallow cut about 1,000 feet north of the discovery cut. A small pit has also been made with a bulldozer at the south end of the Charlene No. 2 claim.

Mining and Milling Equipment and Other Facilities

A small frame ore house has been constructed near the mouth of the surface cut. The access road, 4.1 miles in length, needs repairs. There is no mining or milling equipment on the property. The applicant plans to erect a mill at Parkdale if substantial ore reserves can be developed. Metallurgical tests made on a similar ore by the Denver Equipment Company indicate a 91.85 percent recovery with a 64.5 percent WO_3 content from gravity concentration. The recovery is much higher than is usually obtained by gravity concentration.

PROPOSED EXPLORATION, WITH ESTIMATED COSTS

The applicant proposed driving a 200-foot adit, following the ore zone, from a point below the discovery cut from the present road level. It was also proposed to drive a 20-foot crosscut and a 50-foot raise from the adit. Estimated costs were as follows:

(a)	Independent contracts	$ 5,400.00
(b)	Labor, supervision, consultants	900.00
(c)	Operating materials and supplies	1,022.30
(d)	Operating equipment	2,930.00
(e)	Rehabilitation and repairs	--
(f)	New buildings, improvements, and installations	1,000.00
(g)	Miscellaneous	1,000.00
(h)	Contingencies	1,225.23
(i)	Repairs to road and portal site	1,000.00
	Total	$14,477.53

Government participation 75 percent, or $10,858.15

CONCLUSIONS

Sampling disclosed no tungsten ore of mineable grade. The field team believes that there is little possibility that a 200-foot adit, driven under the discovery cut, will open up mineable tungsten ore.

RECOMMENDATION

It is recommended that the application be denied.

/kp

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved.
Budget Bureau No. 42-R1035.2.

SUBSTITUTE

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

Not to be filled in by applicant

Docket No. DMEA-3171
Metal or Mineral
Date Received 9-21-53
Estimated Cost
Participation (Government %)

SUBSTITUTE FOR APPLICATION FOR LOAN ON SCHOOL SECTION

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: Mining Ventures, Inc., 303 Don Durant Bldg., Pueblo, Colorado, a Colorado corporation. Officers: Dr. Howard Kellogg, President and William T. Burris, Secretary and Treasurer both Don Durant Bldg., and Harry Green, Franklin Hotel, Pueblo, Colorado.

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers.

(*d*) If a partnership, add to the above statement the names and addresses of all partners.

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract For description see Certified Copy of lease and photostatic copy of additional and amended location certificates hereto appended.

(*b*) State any mine name by which the property is known. Charlene No. 1.

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise lessee

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property.

(*e*) If you own the land, describe any liens or encumbrances on it

See 3 (a) above

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice.

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes.

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades.

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you.

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points.

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power.

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore ----------

---------- uranium ----------

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc.

(*c*) The work will start within ---15--- days and be completed within ---3--- months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations.

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project:

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.).

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants.

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel.

(*d*) *Operating equipment.*—Furnish an itemized list of any operating equipment to be rented, purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or suggested use-allowance based on present value, as the case may be.

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project.

(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project.

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes.

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above.

NOTE.—No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes), or any other indirect costs, or work performed or costs incurred before the date of the contract, should be included in the estimate of costs.

7. (*a*) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)? Yes

(*b*) How do you propose to furnish your share of the costs?

☐ Money ☐ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper: The sale of treasury stock of Mining Venture, Inc

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief.

Dated August 8th, 195-3.

ATTEST: ---------- (Applicant)

By Howard D Kellogg

President

Secretary.

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

Appended Sheet#1.

Mining Ventures, Inc., 303 Bon Durant Bldg., Pueblo, Colorado.

3. Applicant's Property Rights.

(a) Five unpatented claimsheld under lease from George E. West, Arthur E. West, Clyde O. West and Maud L. West to Howard D. Kellogg and by him assigned to Mining Ventures, Inc., being Charlene Nos. 1, 2, 3, 4 and 5, which said lease and assignment was filed for record in the office of the County Clerk and Recorder of Fremont County, Colorado, on August 13, 1953 in Book 334, Page ____, as Instrument No. 284,099. A certified copy of such lease and assignment is hereto attached.

Appended Sheet #2.

Mining Ventures, Inc., 303 Bon Durant Bldg., Pueblo, Colorado.

4. Physical description:

These claims are located in the southern part of the Guffey area about 7 miles south and 1 mile west of Guffey, Colorado, in Sections 3 and 10, T. 16, S. R. 73 W. Subject to some minor repairs there is a desirable access road 6 miles long suitable for exploration work connecting with State Highway No. 9.

These claims are located end on end in a north-south regional trend to cover an outcrop of tactite in which scheelite was discovered by the Wests. The discovery was made by an open-cut by the Wests on Charlene No. 1 about 50 feet above the creek, a branch of Current Creek. Before entering into the aforesaid lease the Wests exhibited assay returns showing 6.65 WO_3 and 2.12% WO_3. One sample taken by lessees showed 2.40% WO_3.

This group of claims is discussed at page 35 of the Report of S. J; Burris, Jr., E. M. dated December 30, 1952. Further exploratory work has been done on Charlene No. 1 claim and the schist inclusion mentioned in such report has been cut and commercial ore extends beyond it. A copy of such report is hereto attached.

Discovery cuts in the four other claims show that the tactite bed extends a distance of approximately 1½ miles though no ore in commercial quantaties have been discovered as yet but is probably due to the genesis of the ore deposition. It is proposed to drive a tunnel commencing about 30 feet below the open-cut. This property was seen on July 17, 1953 By Messers Carl Belsner and Dare of the Bureau of Mines and Don MacClaren, U. S. G. S., in connection with their examination of the School Section for which an application for loan was previously made and for which this application is substituted therefor. Reference is, however, made to that application for more detailed information concerning the Guffey area.

Appended Sheet #3.

Mining Ventures, Inc., 303 Bon Durant Bldg., Pueblo, Colorado.

5. The Exploration project.

(d) Harry Green, Vice President of Mining Ventures, Inc., will supervise the exploration operation. He Has had a very broad and diversified experience in the mining industry, having worked since 1904 in most all capacities, such as miner, timberman, shifter, foreman, superintendent, lessee and manager of numerous mining operations in Nevada, California, Colorado and New Mexico.

Appended Sheet #4

Mining Ventures, Inc., 303 Bon Durant Bldg., Pueblo, Colorado.

6. Estimate of costs.

(a) Independent contracts covering labor, power, fuses, caps, explosives, workmen's compensation and employer's liability insurance and payroll taxes:

200 ft. adit tunnel @ $20.00/ft	$4000.00
50 ft. raise @ $20.00/ft.	1000.00
20 ft. cross-cut @ $20.00/ft	400.00
	$5400.00

(b) Labor, supervision, consultants. Labor included under (a) above. No engineering or geological consultants are contemplated. The work will be carried out under the supervision of Harry Green, General Superintendent.

General Superintendent. 3 Mos. @ $300/mo. $900.00

(c) Operating materials and supplies. Power and explosives included under (a) above.

4 sets 1" hex drill steel - Timkin threads @ $45/ea	$180.00
2 - 3/4" air hose @ $25/ea	50.00
2000 Timkin bits @ $5.00/M	10.00
500 ft. 12 lb rail @ $8.12/100 lbs	406.00
250 ft. 2" black pipe @ $34/96/100 ft.	86.30
150 track ties @ 20¢ ea.	30.00
5 tunnel sets @ $12/ea	60.00
2000 BM of lagging @ 10¢BM	200.00
	$1,022.30

(d) Operating equipment. It is contemplated to rent the necessary machinery and equipment with the exception of tram cars.

	Rental per Mo.
Compressor (220 cu. ft.)	$350.00
Jackhammer	45.00
Jackleg	25.00
Mucking machine	275.00
Total rental per mo.	$695.00
3 mos. @ $695	$2,085
1 tram car (54" x 30" x 24" @ $150/ea	150.00
	$2,930.00

(e) Rehabilitation and repairs Nil

(i) Repairs to road and portal site. $1,000.00

(i) Repairs to road and portal site	1,000.00
	$14,477.53

Mining Ventures, Inc., 303 Bon Durant Bldg., Pueblo, Colorado

6. Estimated Costs contd.

(f) New buildings, improvements and installations.

Combination shop and compressor building	$750.00
300 sq. ft. @ $2.50 per sq. ft.	
Installation of Machinery	250.00
	$1,000.00

(g) Miscellaneous. Workmen's compensation and employer's liability insurance and payroll taxes included under (a) above.

Rental and maintenance of truck @ $100.00 per mo	300.00
Repair and maintenance of operating equipment	200.00
Analytical work	300.00
Accounting	200.00
	$1,000.00

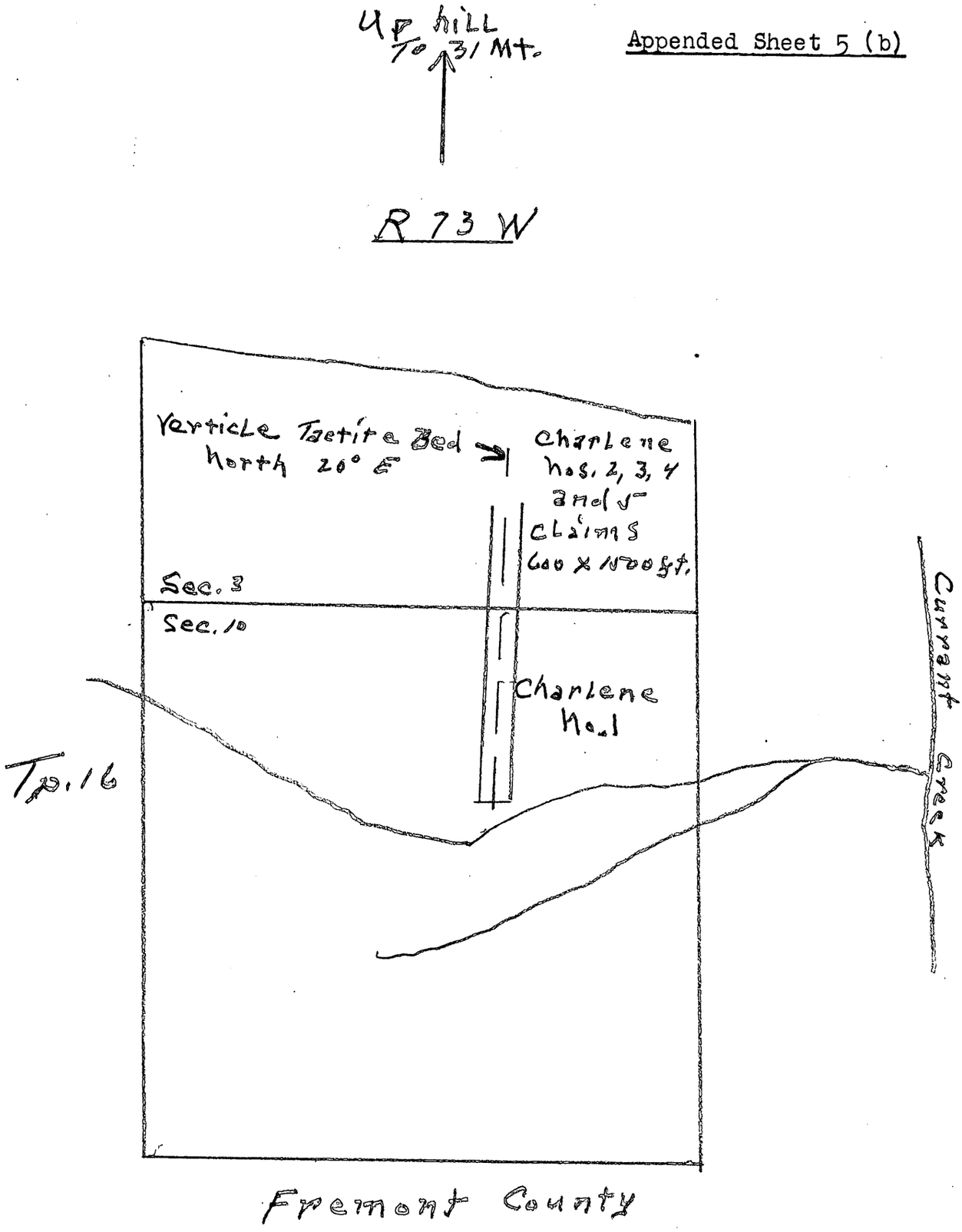
(h) Contingencies. An allowance of 10% to cover contingencies amonuts to $1,225.23.

Recapitulation:

(a) Independent contracts	$5,400.00
(b) Labor, supervision, consultants	900.00
(c) Operating materials and supplies	1,022.30
(d) Operating equipment	2,930.00
(e) Rehabilitation and repairs	nil
(f) New buildings, improvements and installations	1,000.00
(g) Miscellaneous	1,000.00
	$12,252.30
(h) Contingencies 10% of the above	1,225.23
	$13,477.53

Appended Sheet 5 (b)

Appended Sheet 5 (b)



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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 16 1953

224 New Customhouse
Denver 2, Colorado

November 12, 1953.

For Review
WSK

Memorandum

To: Administrator, Defense Minerals Exploration Administration
Attention: 200

From: Field Team, Region IV

Subject: Report of Examination - DMEA Docket 3171 (Tungsten), Mining Ventures, Inc., Charlene No. 1, Fremont County, Colorado.

Enclosed are four copies of the report of examination on the subject docket, a copy of the letter of denial to the applicant, and two copies of Form 3b.

W. H. King
W. H. King

E. N. Harshman
E. N. Harshman
For A. K. Koschmann

Enclosures

DENIED

Reviewed by
DMEA OPERATING COMMITTEE
11-20-53
(date)

COPY

224 New Customhouse
Denver 2, Colorado

November 13, 1953

Mr. Howard D. Kellogg, President
Mining Ventures, Inc.
303 Bon Durant Building
Pueblo, Colorado

Re: Docket No. DMEA-3171

Dear Mr. Kellogg:

Reference is made to your application for Government aid on the Charlene No. 1.

Projects approved by the Defense Minerals Exploration Administration must, in its judgment, show definite promise of yielding material of acceptable grade, and in quantities that will significantly improve the mineral supply position for the National Defense Program.

A careful study of your property and data available to this agency reveals that the probability of disclosing mineable reserves of Tungsten is not considered sufficiently promising to justify Government participation. Under these circumstances, we regret to advise that your application for exploration aid is denied.

Very truly yours,

/s/ W.H. King

W.H. King
Field Team, Reg. IV

sig./ E. N. Harshman
for- A.H. Koschmann
Field Team, Reg. IV

HNC:cwm
cc: DOCKET
Administrator, DMEA
WHTraver
AHKoschmann (2)
Chron.

Reviewed by
DMEA OPERATING COMMITTEE
10-20-53
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

DEPARTMENT OF THE INTERIOR
Bureau of Mines Administration
RECEIVED
NOV 16 1953

Mining Division
Region IV

November 13, 1953.

Memorandum

To: Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: Report of Examination - Docket 3171 (Tungsten), Mining Ventures, Inc., Charlene No. 1, Fremont County, Colorado.

Enclosed are eight copies of the engineering report of examination on the subject docket.

The applicant proposed to explore for scheelite by means of a 200 foot drift, a 20 foot crosscut, and a 50 foot raise at an estimated cost of $14,477.53.

The examiners conclude that there is little chance of finding a significant amount of scheelite and they recommend that the application be denied.

We concur in this recommendation.

W. E. King
W. E. King

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
11-20-53
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
November 5, 1953

Memorandum

To: Executive Officer, Field Team, Region IV

From: Chief, Mineral Resources Branch, Mining Division, Region IV

Subject: DMEA 3171, (Tungsten) Mining Ventures, Inc., Charlene No. 1 claim), Fremont County, Colorado

Transmitted herewith are the original and eight copies of the "Summary, Conclusions, and Recommendations" by Carl Balser, Bureau of Mines, and D. H. Maclaren, Geological Survey, and of Balser's engineering report on the subject docket.

Balser concludes after his examination and careful sampling that the exploration proposal comprising 800 feet of adit with 50 feet of raise and 20 feet of crosscut at an over-all cost of $14,477.53 is unlikely to result in the development of any reserves of minable tungsten ore and recommends denial of the application.

I concur with his conclusions and recommendation.

The brochure, containing the MF-103 form complete with two sketch maps, furnished with your memorandum of September 15, 1953, instructing us to prepare a suitable report, is also returned. An engineering report by S. J. Burris, E. M., was returned with the brochure on DMEA 3172.

W. M. Traver

W. M. Traver

enclosure

WMT/kp

cc 8
DMEA 3171
Chron

Reviewed by
DMEA OPERATING COMMITTEE
11-20-53
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D. C.~~
~~Denver Federal Center~~
Denver 2, Colorado

November 2, 1953

Memorandum

To: DMEA Field Team, Region IV

From: A. H. Koschmann

Subject: DMEA Docket 3171, Mining Ventures, Inc., Charlene No. 1 Claim, Fremont County, Colorado

Attached are 8 copies of the geological report by D. R. MacLaren covering DMEA Docket 3171, Mining Ventures, Inc., Charlene No. 1 claim, Fremont County, Colorado.

The applicant proposes to explore for tungsten ore (scheelite) by means of a 200-foot drift, a 20-foot crosscut, and a 50-foot raise at an estimated cost of $14,477.53.

Scheelite occurs as small crystals, flakes, grains, and thin coatings associated with garnet, quartz, epidote, and calcite in lime-silicate beds in pre-Cambrian schist.

Assays of samples taken by the U. S. Bureau of Mines indicate that the deposit is very low grade. MacLaren concludes that there is little chance of finding a significant deposit of scheelite, and recommends denial of the application.

I concur in this recommendation.

E. M. Hauchman
for A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Enclosures (8)

Reviewed by
DMEA OPERATING COMMITTEE
11-20-53
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

DMEA 3171, Charlene No. 1 Claim

Mining Ventures, Inc.

Fremont County, Colo.

Tungsten

Carl Belser, Mining Engineer
Bureau of Mines

D. R. MacLaren, Geologist
Geological Survey

October 9, 1953

Reviewed by
DMEA OPERATING COMMITTEE
10-20-53
(date)

DMEA 3171

CHARLENE NO. 1 CLAIM
MINING VENTURES, INC.
FREMONT COUNTY, COLO.

Summary, Conclusions, and Recommendations

By Carl Balser
Mining Engineer
Bureau of Mines

and

D. R. Maclaren
Geologist
Geological Survey

DMEA 3171

CHARLENE NO. 1 CLAIM
MINING VENTURES, INC.
FREMONT COUNTY, COLO.

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

By Carl Belser and D. R. MacLaren

Mining Ventues, Inc., Dr. Howard Kellogg, President, 303 Bon Durant Building, Pueblo, Colo., applied for a Defense Minerals Exploration Administration loan of $14,477.53 to explore the Charlene No. 1 claim for tungsten by driving 200 feet of adit, 50 feet of raise, 20 feet of crosscut, improving the access road, and preparing a tunnel site.

A field investigation was made on September 17, 18, and 23, 1953, by an examining team from the Geological Survey and Bureau of Mines.

The rocks of the area are pre-Cambrian schists and gneisses, largely of sedimentary origin, that have been intruded by Pikes Peak granite and pegmatite dikes. The rocks, for the most part, have been covered by Tertiary volcanic flows, breccias, agglomerates, and tuffs. In a northwest trending belt, about 12 miles long by 7 miles wide, scheelite occurs as small crystals, flakes, grains, and thin coatings associated with garnet, quartz, epidote, and calcite in lime-silicate beds within the schist.

On the Charlene No. 1 claim the deposition occurs along a northwesterly trending series of nearly vertical, garnetized lime-silicate beds in schist and in places the deposits appear to parallel pegmatite dikes.

No ore production has been made from the property, and no substantial production of tungsten ores has been made from the area.

Sampling results were negative, and the possibility of discovering a significant deposit of tungsten ore on the property is poor. Therefore, it is recommended that the application be denied.

MINING VENTURES, INC.

CHARLENE NO. 1 CLAIM

FREMONT COUNTY, COLORADO

DMEA DOCKET 3171

Geologic Report

By D. R. MacLaren
U. S. Geological Survey

Reviewed by
DMEA OPERATING COMMITTEE
10-20-53
(date)

CHARLENE NO. 1 CLAIM
FREMONT COUNTY, COLORADO

INTRODUCTION

Mining Ventures, Inc. of Pueblo, Colorado, has applied to the Defense Minerals Exploration Administration for assistance to explore for tungsten in Fremont County, Colorado. The applicant proposes to explore on the Charlene No. 1 claim in sec. 3 and 10, T. 16 S., R. 73 W., by driving 200 feet of drift, 20 feet of crosscut, and 50 feet of raise at an estimated cost of $14,477.53 (Government's share 75 percent or $10,858.15).

The Charlene No. 1 claim is 7 miles south and 1 mile west of Guffy, and is reached from State Highway 9 by 6 miles of poor road, most of which follows the bed of a stream that branches off from Current Creek and is impassable during periods of rain and melting snow. The property was first visited July 17, 1953, accompanied by Carl Belser and Will Dare of the U. S. Bureau of Mines, William T. Burris and Harry Green, respectively vice-president and engineer for the applicant company, during the examination for DMEA Docket 3114. September 23, 1953, the property was again visited in company with C. M. Herrer of the Bureau of Mines for the purpose of mapping for this report.

It is concluded that the chance of finding a significant deposit of scheelite on this claim is poor, and therefore it is recommended that the application be denied.

GEOLOGY

The rocks of the areaare pre-Cambrian schist and gneiss, largely of sedimentary origin, that have been intruded by Pikes Peak granite and

pegmatite dikes. To the north and west these rocks have, for the most part, been covered by Tertiary volcanic flows, breccias, agglomerates, and tuffs. In a northwest trending belt, about 12 miles long and 7 miles wide, scheelite occurs as small crystals, flakes, grains, and thin coatings associated with garnet, quartz, epidote, and calcite in lime silicate beds within the schist.

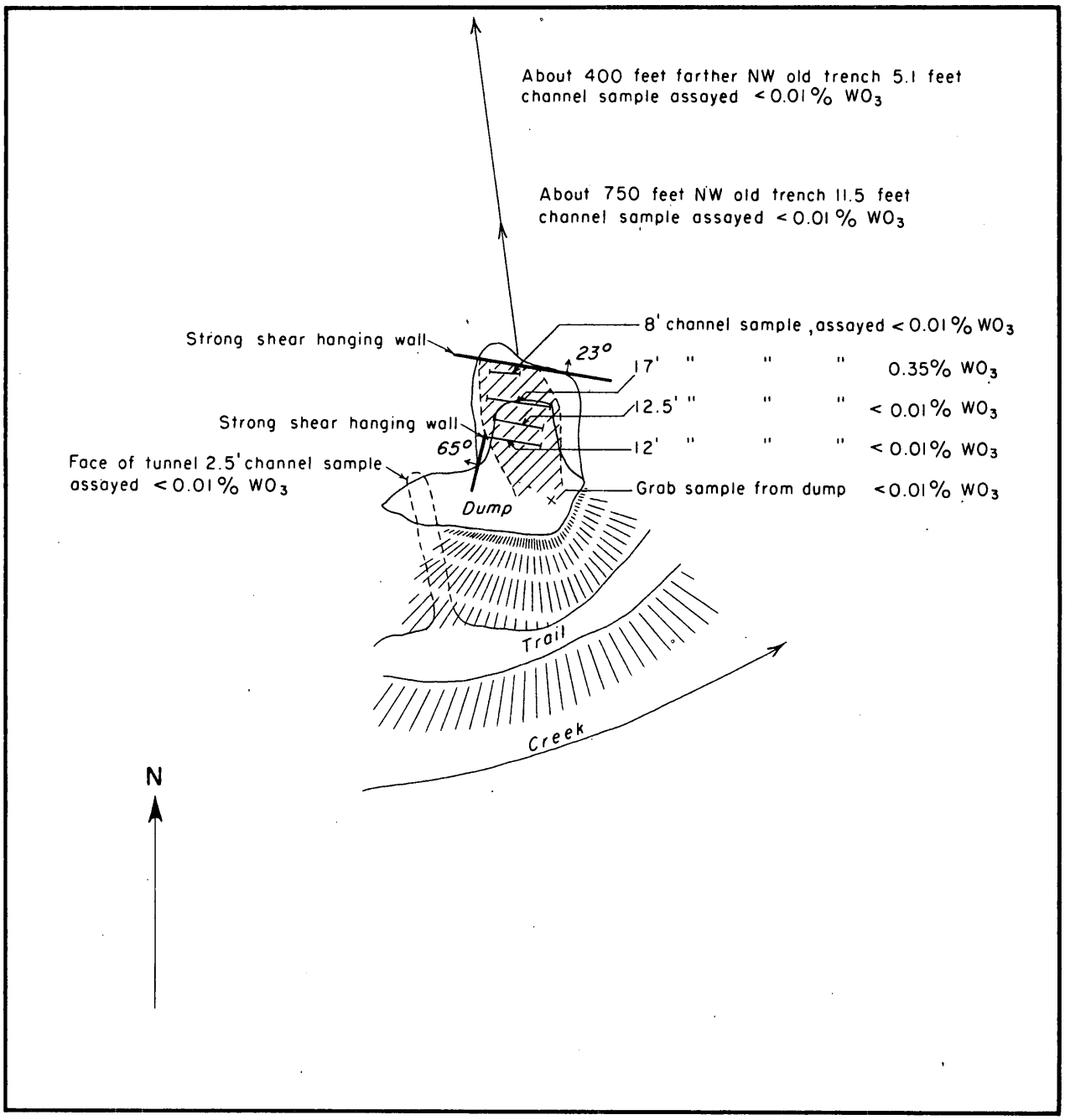
On the Charlene No. 1 claim a rather large open cut (figure 2) has exposed a mineralized zone about 15 feet wide and at least 35 feet long. Examined under a mineral light it was found that scheelite was irregularly scattered throughout the zone with possibly a slight concentration favoring a 24 to 30-inch streak toward the west side. The back end of the open cut exposed the mineralized zone for a vertical distance of about 12 feet. Near the top of the cut across the back end, a strong shear that strikes N. 80° W. and dips 23° N. terminates the lenslike zone of mineralization. Four channel samples from the open cut and a grab from the dump, taken by the Bureau of Mines examiners and shown on figure 2, are discouragingly low except for one 17-foot channel that assayed 0.35 percent WO_3. Although the length of the channels might appear excessive, they are acceptable because if it is assumed that one foot contained 1 percent WO_3 and the remaining eleven feet of a twelve foot cut contained no WO_3 whatsoever, the average for the twelve feet would still be 0.10% WO_3. Below the open cut and a few feet west, a tunnel was driven for about 40 feet in a hard siliceous rock. A 2.5 foot channel sample of the face assayed less than 0.01 percent WO_3. At distances of about 750 feet and 250 feet NW of the open cut two old trenches expose similar lime silicate rocks. Samples from these trenches assayed less than 0.01% WO_3. No exposures of "veins" were seen between the open cut and the two old trenches.

CONCLUSIONS AND RECOMMENDATIONS

It is concluded that small, probably lenslike beds of lime silicate within the schist contain scheelite in small amounts and that the chance of discovering a significant deposit on this claim is poor. Therefore it is recommended that this application be denied.

DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

D.M.E.A. DOCKET 3171



Geology by D.R. MacLaren
October, 1953

FIGURE 2.– PLAN SHOWING WORKINGS ON CHARLENE NO.1 CLAIM, MINING VENTURES INCORPORATED, FREMONT COUNTY, COLORADO.

40 0 40 Feet

DMEA 3171

CHARLENE NO. 1 CLAIM
MINING VENTURES, INC.
FREMONT COUNTY, COLO.

Engineering Report

By Carl Balser
Mining Engineer
Bureau of Mines

DMRA 3171

CHARLENE NO. 1 CLAIM
MINING VENTURES, INC.
FREMONT COUNTY, COLO.

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DMEA 3171

CHARLENE NO. 1 CLAIM
MINING VENTURES, INC.
FREMONT COUNTY, COLO.

ENGINEERING REPORT

By

Carl Belser

INTRODUCTION

Mining Ventures, Inc., Dr. Howard Kellogg, President, and William T. Burris, Secretary and Treasurer, 303 Bon Durant Building, Pueblo, Colo., on August 4, 1953, submitted an application to the Defense Minerals Exploration Administration for aid in an exploration project on the Charlene No. 1 claim, located in Fremont County, Colo. The application, DMEA 3171, proposed driving 200 feet of adit, 50 feet of raise, 20 feet of crosscut, repairing the access road, and preparing a tunnel site at an estimated cost of $14,477.53 of which the Government's participation (75 percent for tungsten) would be $10,858.15. This proposed project is designed to explore a tungsten-bearing deposit which has been opened on surface.

A field examination of the Charlene No. 1 claim was made by representatives of the Bureau of Mines on September 17-18, 1953, and by a representative of the Geological Survey on September 23, 1953.

ACKNOWLEDGMENTS

Messrs. Harry Green and William T. Burris of Mining Ventues, Inc., conducted the examining team over the property on July 27, 1953, but

no representatives of the applicant were present during the September examination.

D. R. MacLaren, geologist, was assigned to make the examination as the Geological Survey member of the examining team, and W. L. Dare, mining engineer of the Bureau of Mines, accompanied the author on both examinations and assisted in the sampling.

LOCATION, TOPOGRAPHY, AND PHYSICAL FEATURES

The Charlene No. 1 claim is located on the north side of Mill Gulch in secs. 3 and 10, T. 16 S., R. 73 W., sixth principal meridian (fig. 1).

The claim is the southernmost of five Charlene claims which extend end to end in a northerly direction. The altitude at the discovery cut is about 7,800 feet.

An access road, in poor condition, 4.1 miles long, connects the property with State Highway No. 7, from whence it is 6.5 miles to Guffey, the nearest post office and store; 18.5 miles to Parkdale, the nearest railhead; and 26 miles to Canon City, county seat of Fremont County. Some native timber can be procured near the property, and native lumber can be purchased at Guffey. A small amount of water, suitable for mining and domestic purposes, flows down Mill Gulch. The nearest good mill site is at Parkdale where both ample water and electric power are available. Miners, required for exploratory work, can be hired in Guffey and Canon City, and housing facilities are available in Guffey.

Annual rainfall is about 15 inches. Although the winters are somewhat severe, State Highway No. 9 is kept open, and interruptions to year-around operation would be few.

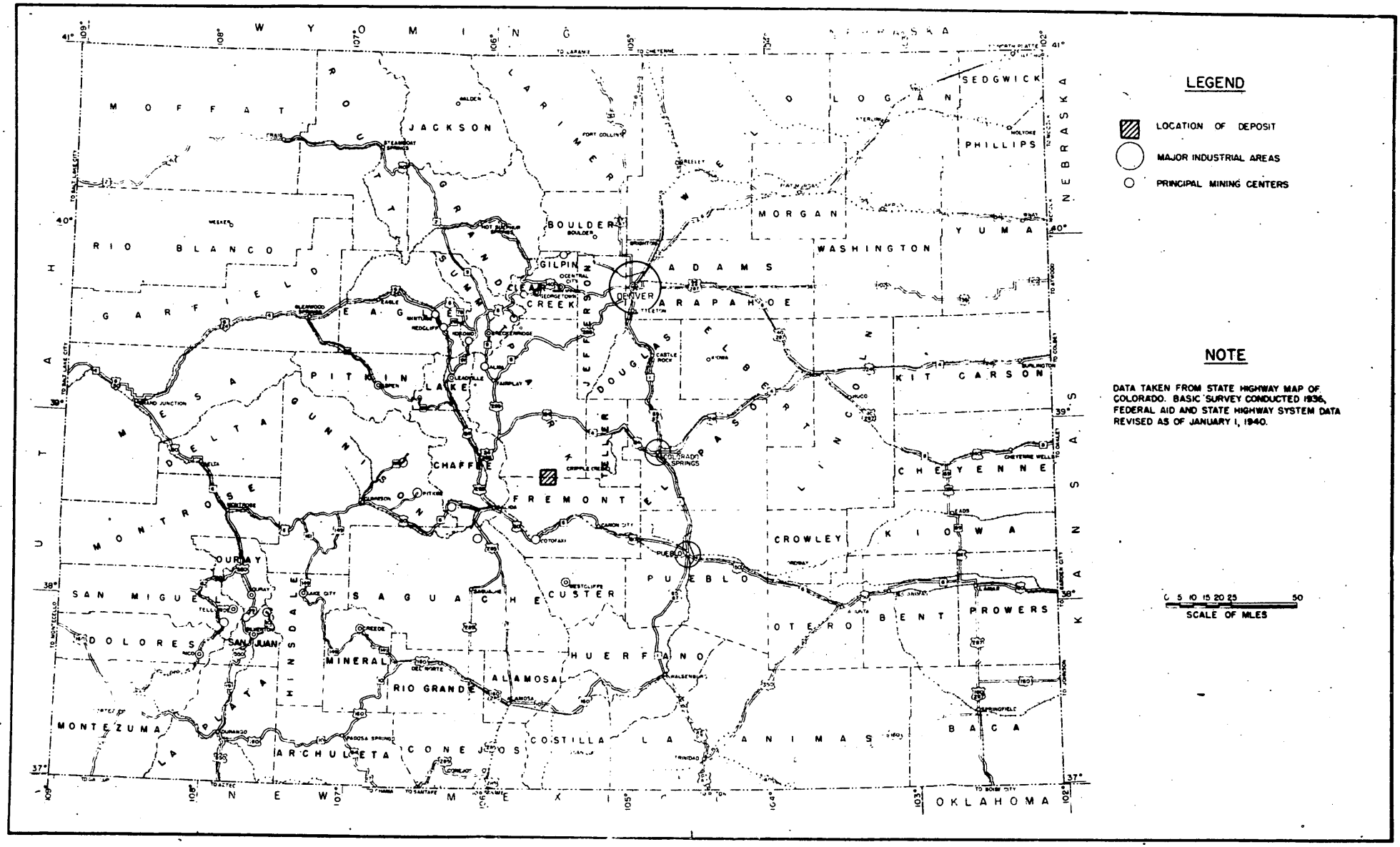


FIGURE 1. - LOCATION MAP, CHARLENE NO. 1 CLAIM, MINING VENTURES, INC., FREMONT COUNTY, COLO. (DMEA 31,1)

HISTORY AND PRODUCTION

Scheelite has been known to occur in the area for a number of years, and a few deposits have been worked intermittently on a small scale. The Charlene deposit was discovered by George E. and George A. West. Five claims were located. A surface cut, 12 feet wide and 35 feet long, was made at the point of discovery and a 33-foot long adit driven about 25 feet below the surface cut. An agreement was made between the Wests and Dr. Howard Kellogg on February 7, 1952. Mining Ventures, Inc., was organized on February 25 of the same year. Production, if any, has not been recorded.

OWNERSHIP AND EXTENT

The property consists of five unpatented claims held by right of location by George E. West, Clyde O. West, Arthur E. West, and Maud L. West, and leased to Mining Ventures, Inc. This lease was recorded on August 13, 1953, in Book 334, page (?), of the records of the County Clerk and Recorder of Fremont County, Colo. In the same records the five amended claims have been recorded as follows:

Claim	Book	Page
Charlene No. 1	327	313
Charlene No. 2	327	314
Charlene No. 3	327	315
Charlene No. 4	327	311
Charlene No. 5	327	312

The original certificates were recorded in Book 362 on pages 362, 363, and 364.

DESCRIPTION OF THE DEPOSITS

The ore occurs as scheelite in garnetized lime-silicate beds in schist. These beds appear to be nearly vertical and to roughly parallel pegmatite dikes. The garnetized lime-silicate zone can be followed to the north for over 1,500 feet.

In the discovery cut the widest exposure is 17 feet, and 1,000 feet to the north of the discovery cut the lime-silicate zone is 11.5 feet wide.

In general, the scheelite occurs as crystals, flakes, grains, and thin coatings associated with garnet, quartz, epidote, and calcite.

MINEABLE ORE RESERVES

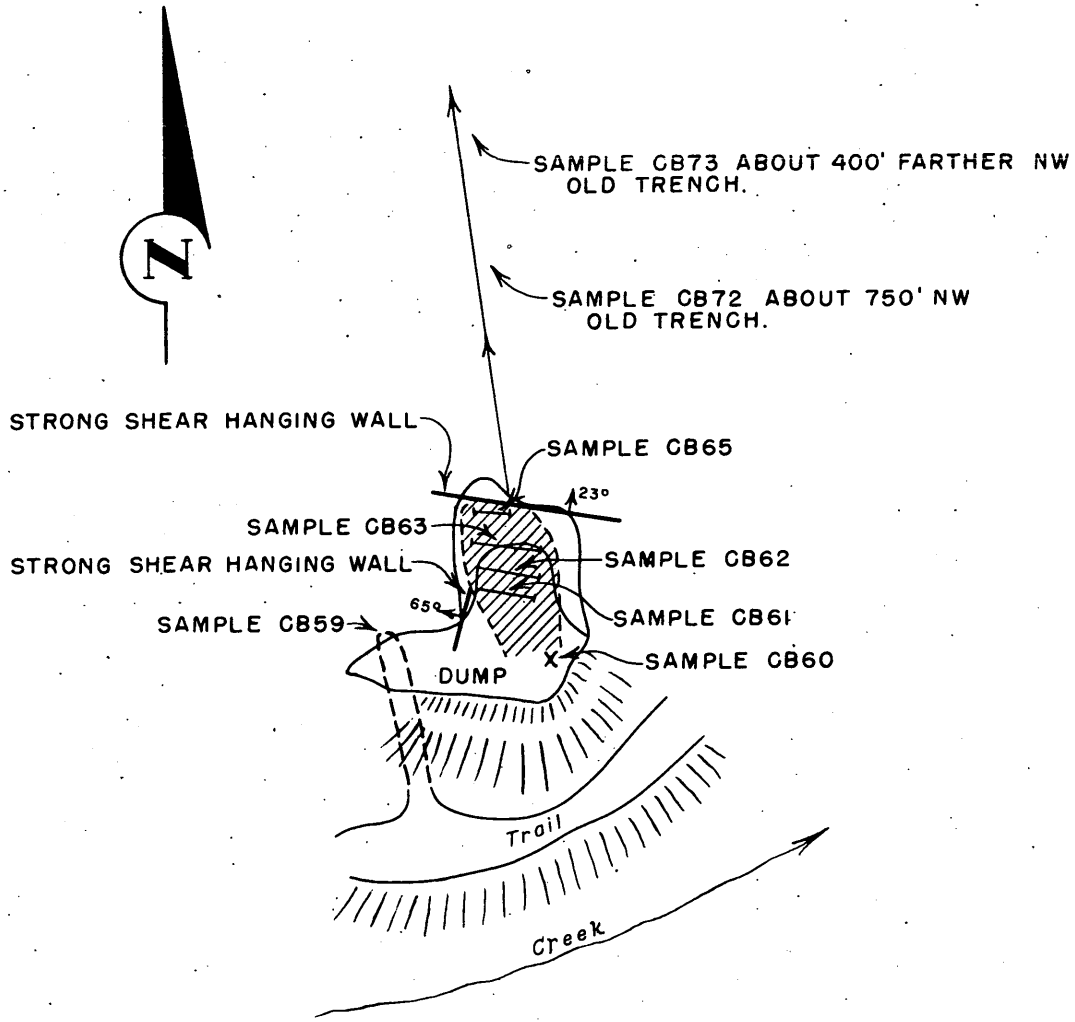
Sample locations are shown on figure 2. Eight samples were taken, crushed, split with a Jones sampler, and assayed by the Region IV Metallurgical Division of the Bureau of Mines at Salt Lake City, Utah. Sample results follow:

Sample No.	Type	Sample length (feet)	Percent WO_3	Description
CB-59	Cut	2.5	<0.01	Breast of tunnel.
CB-60	Grab	--	<0.01	Grab of ore (?) pile at mouth of discovery cut.
CB-61	Cut	12.0	<0.01	12 feet north from mouth of discovery cut.
CB-62	Cut	12.5	<0.01	6 feet north and 6 feet above CB-61.
CB-63	Cut	17.0	0.35	9 feet north and 9 feet above CB-62.
CB-64	Cut	8.0	<0.01	6 feet north and 6 feet above CB-63.
CB-72	Cut	11.5	<0.01	1,000 feet north of CB-59.
CB-73	Cut	5.1	<0.01	1,500 feet north of CB-59

< less than

A composite of all eight samples assayed 0.04 percent in phosphorus.

Sample CB-64 was taken over a width of 17 feet. A portion of this width probably runs considerably higher than the assay shown. However,



SAMPLE DATA

SAMPLE NO.	LENGTH FEET	TYPE	PERCENT	
			WO_3	P
CB59	2.5'	CHANNEL	<0.01	
CB60		GRAB	<0.01	
CB61	12.0	CHANNEL	<0.01	
CB62	12.5	CHANNEL	<0.01	
CB63	17.0	CHANNEL	<0.35	
CB64	8.0'	CHANNEL	<0.01	
CB72	11.5	CHANNEL	<0.01	
CB73	5.1	CHANNEL	<0.01	

< LESS THAN

0 40 80

SCALE IN FEET

MINERAL RESOURCES BRANCH
MINING DIV. - REGION IV
BUREAU OF MINES

FIGURE 2 - PLAN SHOWING SURFACE WORKINGS ON CHARLENE NO. 1 CLAIM, MINING VENTURES INC., FREMONT COUNTY, COLO. (DMEA 3171)

no tungsten values were found in the adjacent samples. The results of the sampling indicate that the tungsten content of the deposit is low and not of mineable grade.

Samples CB-61, CB-62, and CB-63 were reassayed and the same results reported as in the original assaying.

PRESENT STATUS

Exploration and Development

All present working are shown on figure 2. They consist of a 33-foot adit, a 35-foot discovery cut, and a shallow cut about 1,000 feet north of the discovery cut. A small pit has also been made with a bulldozer at the south end of the Charlene No. 2 claim.

Mining and Milling Equipment and Other Facilities

A small frame ore house has been constructed near the mouth of the surface cut. The access road, 4.1 miles in length, needs repairs. There is no mining or milling equipment on the property. The applicant plans to erect a mill at Parkdale if substantial ore reserves can be developed. Metallurgical tests made on a similar ore by the Denver Equipment Company indicate a 91.85 percent recovery with a 64.5 percent WO_3 content from gravity concentration. The recovery is much higher than is usually obtained by gravity concentration.

PROPOSED EXPLORATION, WITH ESTIMATED COSTS

The applicant proposed driving a 200-foot adit, following the ore zone, from a point below the discovery cut from the present road level. It was also proposed to drive a 20-foot crosscut and a 50-foot raise from the adit. Estimated costs were as follows:

(a)	Independent contracts	$ 5,400.00
(b)	Labor, supervision, consultants	900.00
(c)	Operating materials and supplies	1,022.30
(d)	Operating equipment	2,930.00
(e)	Rehabilitation and repairs	--
(f)	New buildings, improvements, and installations	1,000.00
(g)	Miscellaneous	1,000.00
(h)	Contingencies	1,225.23
(i)	Repairs to road and portal site	1,000.00
	Total	$14,477.53

Government participation 75 percent, or $10,858.15

CONCLUSIONS

Sampling disclosed no tungsten ore of minsable grade. The field team believes that there is little possibility that a 200-foot adit, driven under the discovery cut, will open up minsable tungsten ore.

RECOMMENDATION

It is recommended that the application be denied.

/kp