Docket No. DMEA 2724 - Tungsten

December 10, 1952

Iron and Ferro-Alloy Division, DMEA

2724

Denial by field team of application
Docket No. DMEA 2724 - Tungsten
J. R. Cochran and Ira A. Cole
Black Ace Claims
Boulder County, Colorado

The applicants requested exploration assistance for a project, costing $18,260.35, to sink 75 feet of shaft and drive 200 feet of drift, from the bottom of the shaft and along the vein on the subject claims.

The Operators have sunk a 20-foot shaft connecting with an old drift. All the old drift, except 25 feet west of the new shaft and 5 feet on the east side of the same, has now caved as well as the earlier shaft. About 135 feet northeast of the shaft and at 35 feet lower elevation an adit has been driven 60 feet along what appears to be the same shear zone that was followed by the shafts and drift.

No tungsten minerals were seen in the entire length of the adit. In the drift west of the shaft, only thin quartz stringers were seen and these died out entirely within 10 feet. In the east wall of the shaft is a quartz vein with small patches and streaks of a finely divided black tungsten mineral: the quartz is 1 inch wide at the shaft collar, 3 inches wide in the back of the east drift, and a maximum of 18 inches wide between 10 and 15 feet down. According to the applicant, 351 pounds of ore averaging 10.6 percent WO_3 was sorted from the vein exposed in the east wall of the shaft and shipped to the Vanadium Corporation mill at Nederland.

The field team concluded that although tungsten mineralization exists on the property, the ore deposits are too small, too low grade, too fine grained, and too refractory to be mined and milled profitably. Prospects of discovering a significant amount of ore are poor.

The field team, therefore, advised the applicant, by letter of November 14, 1952, that his application was denied. We concur in this denial.

WSMartin'lm - 12/10/52

cc: Admn. Reading File
Docket
D. W. Geehan, USBM
D. M. Lemmon, USGS
G. C. Selfridge
W. S. Martin

400

C
O
P
Y

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
Washington 25, D. C.

224 New Customhouse
Denver 2, Colorado

November 14, 1952

Mr. W. R. Cochran and
Mr. Ira A. Cole
Sugar Loaf Route
Boulder, Colorado

Re: DMEA Docket 2724

Dear Sirs:

Reference is made to your application for Government aid on the Black Ace Claims.

Projects approved by the Defense Minerals Exploration Administration must, in its judgement, 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 strategic tungsten by your proposed exploration program is not considered sufficiently promising to justify Government participation. Under these curcumstances we regret to advise you that your application for exploration aid is denied.

Very truly yours,

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

/s/ A. H. Koschmann
A. H. Koschmann
Field Team, Region IV

HMC:oc
cc: Administrator (DMEA)
WMTraver
Subject
Chron.
AHKoschmann (2)

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

[illegible] New Customhouse
Denver 2, Colorado

November 14, 1952

Memorandum

To: Administrator, Defense Minerals Exploration Administration
Attention: 210

From: Field Team, Region IV

Subject: Final Report, DMEA Docket 2724 (Tungsten) W. R. Cochran & Ira A. Cole, Black Ace Claims, Boulder County, Colorado

Enclosed are four copies of the final report on DMEA 2724, two copies of Form 3b, and a copy of the letter of denial to the applicant.

W. H. King
W. H. King

A. H. Koschmann
A. H. Koschmann

Enclosures

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 20 1952

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

200 New Customhouse
Denver 2, Colorado

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 12 1952

November 12, 1952

Memorandum

To: DMEA Field Team, Region IV

From: A. H. Koschmann

Subject: DMEA Docket 2724, Black Ace Claims, Boulder County, Colorado.

Attached are 8 copies of the geologic report by D. R. MacLaren covering DMEA Docket 2724, the Black Ace Claims, Boulder County, Colorado.

The applicant proposes to explore for tungsten on the Black Ace Claims by sinking 75 feet of shaft and 200 feet of drifting from the bottom of the shaft at an estimated cost of $10,505.

A shallow shaft has been sunk on a mineralized fissure that has also been explored by some drifting. The vein filling is hard, horny quartz with small patches and streaks of a fine-grained black tungsten mineral. About 135 feet northeast of the shaft and 35 feet lower in altitude, a tunnel has been driven 60 feet along a shear zone that appears to be the same as that followed in the shaft and drift. In the entire length of the tunnel, no tungsten minerals were seen.

Although small amounts of tungsten ore are found on the property, the deposits are small, most of the ore is too low grade, too fine-grained, horny, and refractory to be mined and milled profitably. Furthermore, the property lies beyond the outer limits of the tungsten-producing area, and MacLaren concludes that this is a poor prospect, and, therefore, recommends that the loan be denied.

I concur in this recommendation.

The brochure is enclosed.

A. H. Koschmann

A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Enclosures (9)

BLACK ACE CLAIMS

BOULDER COUNTY, COLORADO

DMEA DOCKET 2723

Geologic Report

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

BLACK ACE CLAIMS
BOULDER COUNTY, COLORADO

INTRODUCTION

W. R. Cochran and Ira W. Cole of Boulder, Colorado, have applied to the Defense Minerals Exploration Administration for assistance to explore for tungsten on the Black Ace Claims, sec. 32, T. 1 N., R. 71 W., Boulder County, Colorado. The applicants propose to sink a shaft, now down 30 feet, an additional 75 feet, and to drift a total of 200 feet from the bottom of the shaft, at an estimated cost of $10,505, the Government's share, $7,878.75.

The property was examined on October 8, 1952, in the company of W. R. Cochran, one of the applicants. The property is accessible throughout the year and may be reached by following Sugar Loaf Road for 1 mile from its junction with State Highway 119, then following a poor dirt "mine" road for 1 mile to the southwest.

It is concluded that this is a poor prospect, and it is recommended that the application be denied.

GEOLOGY

The rocks of the area are Boulder Creek granite and quartz monzonite that have been broken by faults and shears. The main mineralized fissures strike ENE and dip to the north. (An ill defined cross shearing strikes from due north to northeast with various dips.)

A shaft has been sunk on a mineralized fissure that strikes N. 75° E. and dips 63° N. At an inclined depth of 20 feet, the shaft connected with

an old drift that apparently was driven from an inclined shaft, now caved, 25 feet east of the present one. The drift is caved 5 feet east of the new shaft, but to the west it is open to the face, 25 feet from the shaft. In the east wall of the new shaft the vein filling is hard horny quartz with small patches and streaks of a finely divided black tungsten mineral. The quartz vein, about 1 inch wide at the collar of the shaft, widens to a maximum thickness of 18 inches between 10 and 15 feet down, then tapers off to a width of about 3 inches at the back of the drift. Down the west wall of the shaft the vein is represented by a shear zone 18 to 24 inches wide with very narrow and short veinlets of quartz that may carry a small amount of tungsten. In the drift west of the shaft only thin quartz stringers were seen, and these died out entirely about 10 feet west. Near the west face the rock is badly shattered by cross shears that strike N. 32°-60° E., and dip 74° S. and 33° N. Clay seams up to 3 inches wide have developed along the cross shearing.

About 135 feet northeast of the shaft and at 35 feet lower elevation a tunnel has been driven 60 feet along a shear zone that appears to be the same as that followed in the shaft and drift. In the entire length of the tunnel no tungsten minerals were seen.

The applicant stated that 351 pounds of ore averaging 10.6% WO_3 have been shipped to the Vanadium Corporation mill at Nederland. The entire shipment came from the 18 inch vein exposed on the east side of the shaft.

CONCLUSIONS AND RECOMMENDATIONS

Tungsten exists on this property, but the deposits are small, most of the ore is too low grade, too fine grained, horny, and refractory to be

mined and milled profitably. The property lies in the Hoosier Breccia Roof fracture zone, but beyond the outer limits of the tungsten producing district, and prospects of discovering a significant amount of ore are poor. It is, therefore, recommended that this application be denied.

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : Docket No. DMEA 2724 - Tungsten

DATE: December 10, 1952

FROM : Iron and Ferro-Alloy Division, DMEA

SUBJECT: Denial by field team of application
Docket No. DMEA 2724 - Tungsten
W. R. Cochran and Ira A. Cole
Black Ace Claims
Boulder County, Colorado

The applicants requested exploration assistance for a project, costing $18,269.35, to sink 75 feet of shaft and drive 200 feet of drift, from the bottom of the shaft and along the vein on the subject claims.

The Operators have sunk a 28-foot shaft connecting with an old drift. All the old drift, except 25 feet west of the new shaft and 5 feet on the east side of the same, has now caved as well as the earlier shaft. About 135 feet northeast of the shaft and at 35 feet lower elevation an adit has been driven 60 feet along what appears to be the same sheer zone that was followed by the shafts and drift.

No tungsten minerals were seen in the entire length of the adit. In the drift west of the shaft, only thin quartz stringers were seen and these died out entirely within 10 feet. In the east wall of the shaft is a quartz vein with small patches and streaks of a finely divided black tungsten mineral; the quartz is 1 inch wide at the shaft collar, 3 inches wide in the back of the east drift, and a maximum of 18 inches wide between 10 and 15 feet down. According to the applicant, 351 pounds of ore averaging 10.6 percent WO_3 was sorted from the vein exposed in the east wall of the shaft and shipped to the Vanadium Corporation mill at Nederland.

The field team concluded that although tungsten mineralization exists on the property, the ore deposits are too small, too low grade, too fine grained, and too refractory to be mined and milled profitably. Prospects of discovering a significant amount of ore are poor.

The field team, therefore, advised the applicant, by letter of November 14, 1952, that his application was denied. We concur in this denial.

FILE COPY 400
SURNAME:

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

Docket No. DMEA 2724 - Tungsten

December 10, 1952

Major Selfridge -

Iron and Ferro-Alloy Division, DMEA

Denial by field team of application
Docket No. DMEA 2724 - Tungsten
W. R. Geehran and Ira A. Cole
Black Ace Claims
Boulder County, Colorado

The applicants requested exploration assistance for a project, costing $18,269.35, to sink 75 feet of shaft and drive 200 feet of drift, from the bottom of the shaft and along the vein on the subject claims.

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The field team, therefore, advised the applicant, by letter of November 14, 1952, that his application was denied. We concur in this denial.

WSMartin'lm - 12/10/52

cc: Admn. Reading File
Docket
R. W. Geehan, USBM
D. M. Lemmon, USGS
G. C. Selfridge
W. S. Martin

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

224 New Customhouse
Denver 2, Colorado

November 14, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 20 1952

Mr. W. R. Cochran and
Mr. Ira A. Cole
Sugar Loaf Route
Boulder, Colorado

Re: DMEA Docket 2724

Dear Sirs:

Reference is made to your application for Government aid on the Black Ace Claims.

Projects approved by the Defense Minerals Exploration Administration must, in its judgement, 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 strategic tungsten by your proposed exploration program is not considered sufficiently promising to justify Government participation. Under these circumstances we regret to advise you that your application for exploration aid is denied.

Very truly yours,

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

A. H. Koschmann
A. H. Koschmann
Field Team, Region IV

HMC:oc
cc: Administrator (DMEA)
WMTraver
Subject
Chron.
AHKoschmann (2)

Reviewed by
DMEA OPERATING COMMITTEE
11-24-52
(Date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF THE SECRETARY
WASHINGTON 25, D. C.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 29 1952

224 New Customhouse
Denver 2, Colorado

September 26, 1952

Memorandum

To: Administrator, Defense Minerals Exploration Administration
Attention: Code 210

From: Executive Officer, Field Team, Region IV

Subject: Docketing for Exploration Assistance

Enclosed herewith in duplicate is DMA Form 3a and Form MF-103 in triplicate and supporting data pertaining to the following applications for Government assistance in exploration work:

Paragon Mines, Inc.
Ophir, Colorado

W. R. Cochran & Ira A. Cole — Dmea-2724
Sugar Loaf Route
Boulder, Colorado

W. H. King
W. H. King

Enclosures

oc

cc: Code 210
Docket (Paragon Mines, Inc.)
Docket(Cochran & Cole)
Chron.
AHKoschmann (2)

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

MF-103 Should Be Filed With General Technical Data Form MF-100

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 29 1952

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

Not To Be Filled in by Applicant

Docket No. Dmea-2724
Metal or Mineral
Date Received 9-29-52
Amount $
Participation (Government %)

W. R. Cochran and Ira A. Cole
Wagon Wheel Lodge
Boulder Colorado

Name and address of applicant

Date April 25, 1952

If you have already filed MF-100, give date filed ....., type of assistance requested .....,

DMA Docket Number (if available) .....

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four copies each, of the signed application form, General Technical Data Form MF-100, and answers to questions as specified, to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive office thereof, with your name and address on each sheet of the application and all accompanying papers. If you have previously filed MF-100, it is not necessary to file it again. However, you should indicate in space provided above the type of assistance previously applied for (loans, procurement contracts, etc.) and DMA Docket Number, if available. *When a question is inapplicable it should be so stated in the form.* Additional sheets should be attached in answering any questions or in supplying additional information. IF YOU CANNOT ANSWER A QUESTION, SO STATE.

1. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.

   (*b*) If you are not the owner of the property, submit a copy of the lease, purchase option, or other agreements under which you are authorized to operate the property with each copy of your application.

   (*c*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

   NOTE: (1) If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*c*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

   (2) If applicant is not the owner of the property or if there are any liens or encumbrances against the property, copy of agreements of claimants, lienors, encumbrances, and lessors subordinating their interests in the property to the interest of the Government under the Exploration Project Contract will be required for attachment to the Contract.

2. (*a*) What metals or minerals do you expect to find?

   (*b*) Furnish statement of the geologic features of your property, giving type of ore deposit and reasons for expecting to find commercial ore bodies. Illustrate with maps or sketches. If you have a geologic or engineering report, or assay maps showing width and grade, please send them with application, stating whether or not you wish to have them returned.

The information requested in questions 3, 4, 5, 6, 7, 8, and 9 below should be answered specifically and in detail, as this information will be attached to and incorporated as part of the Exploration Project Contract, if such contract is entered into with you by the Government.

ANSWER EACH QUESTION ON SEPARATE SHEETS OF PAPER AND SUBMIT A COPY OF EACH ANSWER FOR EACH COPY OF YOUR APPLICATION.

3. (*a*) Describe fully the proposed work and give the total cost of the project.

   (*b*) State the time required to start the project and to complete it.

4. Submit a map or sketch of the property involved showing a plan (and cross section, if needed) of the present mine workings and the *location of the proposed exploration work* as related to geologic features, such as contacts, veins, ore-bearing beds, etc.

5. Furnish an itemized list of existing facilities, buildings, installations, and fixtures with a statement of the cost of any necessary rehabilitation or repairs to put into useful and operable condition.

6. Furnish a detailed list of additional facilities, buildings, and fixtures to be purchased, installed, or erected by you, with the estimated cost of each item.

7. Furnish a detailed list of operating equipment, separated into items to be—

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

   with the rental, purchase price, or depreciation of each item, as the case may be, to be charged as a cost of the project.

8. Furnish an itemized schedule of labor, by numbers and classes (miners, muckers, etc.) and of supervisors by numbers and positions, with the maximum wages or salaries to be paid to each.

9. Furnish a detailed list with estimated cost of each item for materials, supplies, engineering, assaying, accounting, power, water, utilities, and any other items not provided for above.

10. (*a*) How much are you prepared to invest in the proposed project?

    (*b*) Is this amount sufficient to pay your part of the cost of the project, in accordance with the regulations on Government participation (Sec. 9 of MO–5)?

11. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

Ina A Cole
W R Cochran

By Mabel E. Cole

(Name of company) (Signature of authorized official)

9/23/52 Owner.

(Date) (Title)

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—64067-2

Black Ace # 4
W. R. Cochran and Ira A. Cole
Wagon Wheel Lodge
Boulder, Colorado

#1

(a) Black Ace claim #4. A shaft has been sunk approximately 30 feet deep on the vein, and a tunnel started about 100 feet east of the shaft and 45 feet below mouth of the shaft.

(b) Certification of Mineral Claim attached.

(c) Both areas are the same

#2

(a) Tungsten

Black Ace # 4
W. R. Cochran and Ira A. Col
Wagon Wheel Lodge
Boulder, Colorado

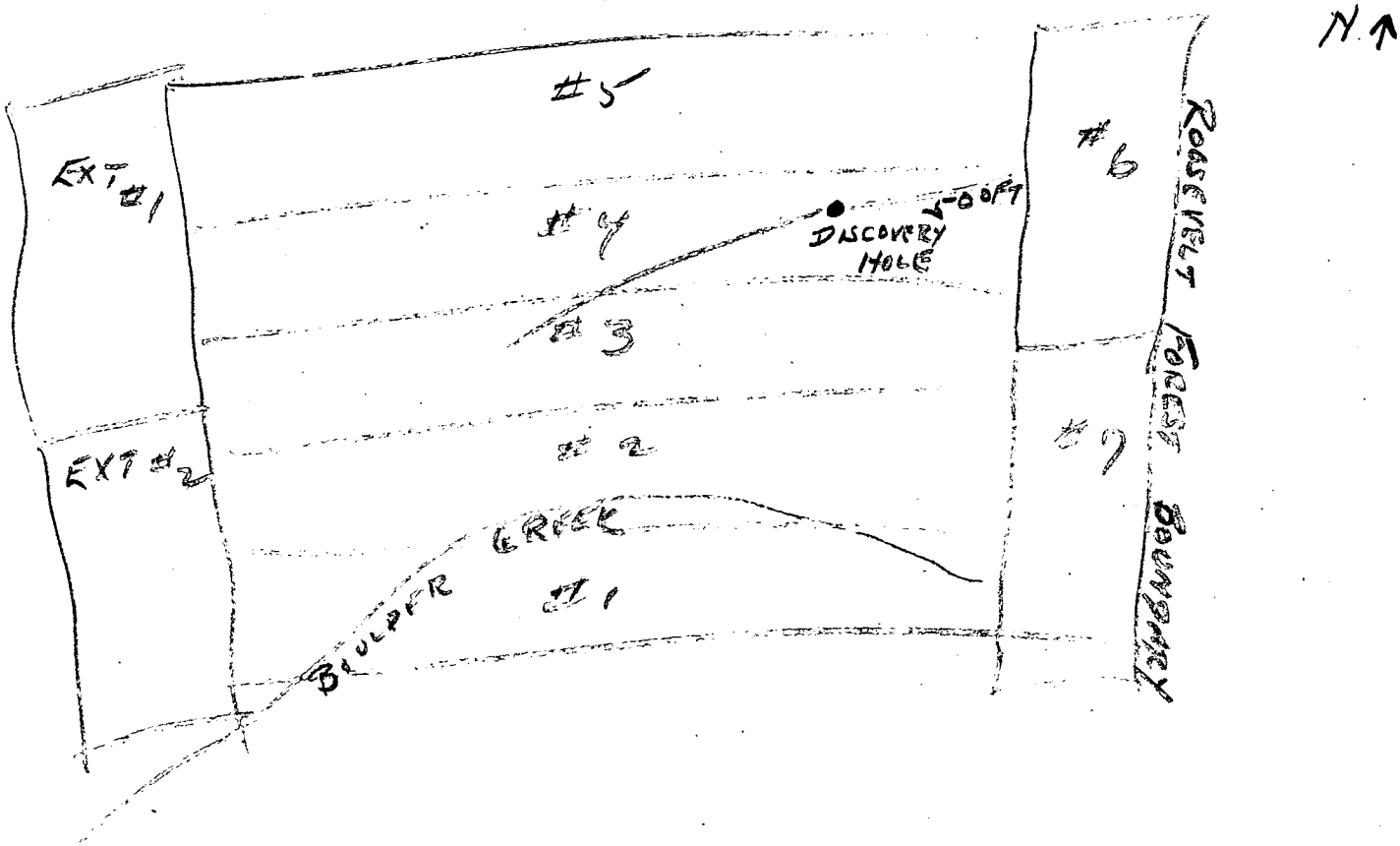
(a) #3

Erect shaft house, gallows frame, tool shed, ore shute and grisley.
Sink a shaft 100 ft deep on the vein, and drift 100 ft. Northeast and 100 ft. Southwest on the vein.

(b)

Work can be started immediately upon approval of this application for aid, and can be completed within six months after commencing.

#4



We have obtained permission and graded a road , about two miles in length, connecting the mine with Sugar Loaf road. Teal's mill is about three miles from the mine by road. Electric power is available; a power line runs up Boulder canon. Water is available from a spring and storage tank within 300 feet of shaft. A shaft has been sunk 30 feet on the vein, and a tunnel driven about 30 feet, starting about 100 feet east of the shaft and 45 feet below the mouth of the shaft; driven toward the shaft on the vein.

The shaft will need to be cribbed. Will cost $250.00 for material and $150.00 for labor. These costs are included on pages #6 and #8.

W. R. Cochran and Ira A. Cole
Wagon Wheel Lodge
Boulder, Colorado

#6

Shaft house, gallows frame, ore shute and grisley	$1500.00
Water tank	125.00
Tool shed	400.00
Sump pump	350.00
Pipe & fittings (2 inch)	296.00
Receiver tank	100.00
Forge & equipment	100.00
Misc. tools & supplies	250.00
Cribbing timber	400.00
Skid timber	50.00
	$3571.00

Black Ace # 4
W. R. Cochran and Ira A. Cole
Wagon Wheel Lodge
Boulder, Colorado

#7

(a) none

(b)

2 sets steels	2' @ $4.55	785 $9.10
	4' @ 6.10	12.20
	6' @ 7.65	15.30
6 carballoy bits	1-5/8 @ 13.60	81.60
4 " "	1-3/4 @ 14.20	56.80
Track, 250 feet (12 lb. 1 ton)		165.00
Splice bars		16.50
Bolts and Nuts		4.20
Spikes (80 lb @ .15)		12.00
Jack hammer (used) set up for drifting		3550.00 < If total is correct this is $350
Water hose & fittings, 50ft.		22.85
Powder (25 boxes)		300.00
Detonator (used)		25.00
Caps (electric)	$20.90 per 100	275.00
Lead line	.11 per ft.	27.50
Connector wire	3.90 per [illegible]	11.70
Fuel for hoist and compressor		275.00
Oil for compressor and hoist(5gal. @4.65)		18.60
Fuel and oil for truck (transportation & hauling)		185.00
Compensation insurance		150.00
		$2013.35

(c) Ingersoll-Rand compressor, hoist & cable, bucket, ore car, ties, truck, jack hammer and 100 ft. air hose, picks, shovels, and misc. Rental $150.00 mo.

Black Ace #4
J. R. Cochran and Ira A, Cole
Wagon Wheel Lodge
Boulder, Colorado

#8

2 miners on contract basis (cribbing included) sinking, 75 ft @ $ 35.00 per foot		$2625.00
drifting, 200 @ 15.00 " "		3000.00
crib 25 ft of present shart		150.00
1 hoist operator and odd jobs @ 1.65 per hr.	6 days wk.	2230.00
1 supervisor @ 1.85 per hr.	6 days wk.	2500.00
		$10505.00

Black Ace # 4
W. R. Cochran and Ira A. Col
Wagon Wheel Lodge
Boulder, Colorado

#9

Accounting , Fred N. Gardner, $30.00 mo.	$180.00
Assaying	150.00
Engineering	200.00
Installation of Electric power line	*750.00
	$1280.00

Total

Page 6	$3571.00
7	2013.35
8	10505.00
9	1280.00
	$17,369.35
7c	900 ep
	18,269 35

#10

(a)

We are prepared to invest up to $5000.00 or 1/4 of the total cost.

(b)

yes.

#11