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

C C
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Y

October 28, 1952

Memorandum

To: Hazel Berry, Operating Committee, DMEA

From: Grace L. Ault, Rare and Misc. Metals Division

Subject: Field Team reports
DMEA-2594, Don J. Irvine
DMEA-2679, C. & B. Mining Company

Field Team reports, with denial letters to the applicants, received from Region IV and cleared by the Operating Committee on October 24, 1952, have been reviewed by Mr. Ellis and he states the denials are substantiated.

The reports and denial letters have been forwarded to Mails and Files to be placed in the dockets, since these applications were processed under Region IV's delegation of authority.

/s/ Grace L. Ault

original letter in Dmea ~~2679~~ 2594

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

224 New Customhouse
Denver 2, Colorado

October 15, 1952

Memorandum

To: Administrator, Defense Minerals Exploration Administration
Attention: 210

From: Field Team, Region IV

Subject: Final Report, DMEA Docket 2679 (Nickel-Molybdenum) C. & B. Mining Company, Chaffee County, Colorado

Code 900

Enclosed are the original and three copies of the final report on DMEA-2679, the original and one copy of Form 3b, and a copy of the letter of denial to the applicant.

John F. Shaw
John F. Shaw for
W. H. King

A. H. Koschmann
A. H. Koschmann

Enclosures

10/28/52 gla

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

224 New Customhouse
Denver 2, Colorado

October 15, 1952

Mr. Cleve Cutler
C. & B. Mining Co.
General Delivery
Florence, Colorado

Dear Mr. Cutler:

Reference is made to your application for Government aid on the Little Guy Mine.

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 by your proposed exploration program is not considered sufficiently promising to justify Government participation. Under these circumstances, I regret to advise that your application for exploration aid is denied.

The sketch map submitted with your application which you requested to be returned is attached.

Very truly yours,

John F. Shaw

John F. Shaw for
W. H. King
Field Team, Region IV

HMC:oc
cc: Administrater (DMEA)
WMTraver
Subject
Chron.
Koschmann (2)

A. H. Koschmann

A. H. Koschmann
Field Team, Region IV

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Mining Division
Region IV

October 15, 1952

Memorandum

To: Field Team, Region IV

From: Acting Chief, Mining Division, Region IV

Subject: Final Report, DMEA Docket 2679, (Nickel-Molybdenum) C. and B. Mining Company, Chaffee County, Colorado

Enclosed are eight copies of a memorandum report by C. M. Harrer on DMEA-2679.

The applicant requested $10,094 to unwater and rehabilitate the Little Guy shaft and explore vein extensions.

Harrer concludes that the probability of developing appreciable reserves of molybdenum ore on this property is very remote. There was no evidence of nickel mineralization.

He recommends denial and we concur in this recommendation.

John F. Shaw for
W. M. King

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
10-24-52
(date)

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

200 New Customhouse
Denver 2, Colorado

October 3, 1952

Memorandum

To: DMEA Field Team, Region IV

From: A. H. Koschmann

Subject: DMEA Docket 2679, C & B Mining Company, Chaffee County, Colorado.

Attached are 8 copies of the geological report by D. R. MacLaren covering DMEA Docket 2679, C & B Mining Company, Chaffee County, Colorado.

The applicant has requested a loan to explore for molybdenum and nickel ore on 6 claims of his property. Here pre-Cambrian granite is cut by quartz veins with small scattered flakes of molybdenite. Some of the molybdenite was coated with yellow molybdite, which was mistaken by the applicant for nickel. MacLaren concludes that this is a poor prospect and recommends that the loan be denied.

I concur in this conclusion .

A. H. Koschmann

A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Enclosures (8)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Room 137, Building 20
Denver Federal Center
Denver 14, Colorado
October 9, 1952

Memorandum

To: Executive Officer, Field Team, Region IV

From: Chief, Colorado Branch, Mining Division, Region IV

Subject: BMEA 2679 (Nickel-molybdenum), C. and B. Mining Company, Chaffee County, Colorado

Please find enclosed the original and eight copies of a memorandum report by C. M. Harrer on the subject docket.

The only evidence of the existence of molybdenite was the small amount of low-grade material found on the dumps. The occurrence of a nickel mineral proved only a suspicion.

Harrer recommends denial of the loan, stating that there is slight probability of developing appreciable reserves of molybdenum ore on the property. I agree that the loan should be denied, mainly because, in my opinion, Government funds should not be expended for the purpose of unwatering mines to prove or disprove the existence of ore supported only by heresay evidence.

The brochure furnished by the Region IV Field Team with instructions to make the examination is also enclosed. Your attention is called to the fact that the applicant requests return of the sketch map submitted with the application.

W. M. Traver, Jr.

W. M. Traver, Jr.

enclosures

WMT/amh

cc 8
BMEA 2679
BMEA Chron.

September 25, 1952

Memorandum

To: Mr. A. H. Koschmann

From: D. R. MacLaren, Geologist, U. S. Geological Survey

Subject: DMEA Docket 2679, C & B Mining Company, Chaffee County, Colorado.

The subject applicant has requested Government assistance to explore for molybdenum and nickel on six claims in sec. 23, T. 12 S., R. 81 W., 6th Principal meridian, Chaffee County, Colorado. The applicant proposes to unwater and rehabilitate an 80 foot shaft, and do an unstipulated amount of cross-cutting and drifting, at an estimated cost of $10,394.49, the Government's share to be 70 percent.

The property, formerly known as the Crescent Mines, was examined on September 15, 1952, in company with Mr. C. M. Harrer, U. S. Bureau of Mines, and Mr. Cleve Cutler, applicant and partner in the venture. The claims lie, for the most part, in a rather broad flat valley formed by Clear Creek. The present stream has cut a psuedo canyon from 10 to 50 feet deep. The only rock exposures are in the walls of the canyon. The rocks are pre-Cambrian (?) granite cut by veins of quartz and pegmatite that strike N. 10°-17° E., and dip from 78° to 80° W. The only vein seen was about 300 feet east of the shaft. It was 6 inches wide and composed of quartz with small scattered flakes of molybdenite. Some of the molybdenite was coated with yellow molybdite. Neither of the veins referred

to in the application were exposed, although a careful examination was made of the walls of the canyon at both ends of the north flowing portion of the creek in which the best vein was said to be located. There was evidence of faulting and shearing that could possibly be mineralized beneath the stream bed. The only shaft on the property was flooded to within ten feet of the surface. The dumps contained relatively little vein material, indicating the probability of only small lenses. The vein material was molybdenite associated with pyrite, in a gangue of quartz with more or less feldspar. Some of the molybdenite was oxidized to molybdite, the ferric molybdate. The latter mineral is what the applicant had been told was nickel. No nickel mineral was seen.

Judging from the small amount of vein material on the dumps, the small amount of molybdenum in the only vein seen, and the lack of any mineralization in the shear zones exposed in the canyon walls, it is concluded that this is a poor prospect, and it is recommended that the application be denied.

Donald R. MacLaren

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Room 137, Building 20
Denver Federal Center
Denver 14, Colorado
October 9, 1952

Memorandum

To: Chief, Colorado Branch, Mining Division, Region IV

From: C. M. Harrer

Subject: DMEA 2679 (Nickel-molybdenum), C. and B. Mining Company, Chaffee County, Colorado

The C. and B. Mining Company, of Florence, Colo., has applied for a Defense Minerals Exploration Administration loan of $10,394.49 to unwater and rehabilitate the Little Guy shaft and underground workings and explore vein extensions with about 300 feet of crosscut and drift.

Field examination was made on September 15, 1952, in the company of Cleve Cutler, one of the two C. and B. Mining Company partners.

The property of the company is in the La Plata Mining District, Chaffee County, Colo., sec. 23, T. 12 S., R. 81 W., at an altitude of 10,000 feet. The group of claims centers around the junction of Clear Creek and Lake Fork Creek and is readily accessible from Buena Vista, northwesterly for 15.7 miles over U. S. Highway 24 and 10.6 miles southwesterly over County Road 170.

During 1939-51, the claims were the property of the Crescent Molybdenum Company, with offices at Monette, Mo. They were abandoned July 1, 1951, and relocated by the applicant. Work was limited to development and there has been no production of molybdenum ore to date.

The C. and B. Mining Company is a partnership between Cleve Cutler, of Florence, and Harley Badger, of Louisville, Colo. The property consists of six unpatented, standard lode claims--Goldi, Little Guy, Little Nell, Evelyn, Kitty No. 1, and Hangover No. 1.

Molybdenite occurs as flakes and small, foliated clusters associated with pyrite in narrow quartz veins in granite. The only exposure accessible was a quartz veinlet 0.5 foot wide located about 300 feet east of the shaft. It contained scattered flakes of molybdenite with pyrite.

Vein widths of 10 to 15 feet, mentioned by the applicant, could not be verified as all underground exposures were under water and inaccessible.

Dumps near the shaft on the Little Guy lode claim show spotty and low-grade molybdenite with pyrite and vein quartz. Specimens show molybdenite surrounded by a halo of the oxide molybdite which was suspected of being a nickel mineral by the applicant. There is no evidence of nickel or tungsten mineralization on the property.

An estimate of mineable ore reserves, or, in fact, of any type of reserves, is impossible with the mine flooded and inaccessible.

Drifts 175 feet and 100 feet long were reported to have been driven from the bottom of a 5- by 8-foot shaft, 80 feet deep,[1/] on the Little Guy claim.

Molybdenite is reported[2/] to occur in small quartz veins in the Twin Lakes porphyry of Tertiary age.

1/ Colorado State Bureau of Mines Inspector's Reports, Crescent Mines, Chaffee County, Colo., 1940.
2/ Mineral Resources of Colorado, 1947, p. 48.

The probability of developing appreciable reserves of molybdenum ore on this property is very remote.

Denial of the application for exploration assistance is recommended.

C. M. Harrer

C. M. Harrer
Mining Engineer

CMH/amh

cc 8

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

224 New Customhouse
Denver 2, Colorado

October 15, 1952

Memorandum

To: Administrator, Defense Minerals Exploration Administration
Attention: 210

From: Field Team, Region IV

Subject: Final Report, DMEA Docket 2679 (Nickel-Molybdenum) C. & B. Mining Company, Chaffee County, Colorado

Enclosed are the original and three copies of the final report on DMEA-2679, the original and one copy of Form 3b, and a copy of the letter of denial to the applicant.

John F. Shaw
John F. Shaw for
W. H. King

A. H. Koschmann
A. H. Koschmann

Enclosures

224 NewCustomhouse
Denver 2, Colorado

COPY

October 15, 1952

Mr. Cleve Cutler
C. & B. Mining Co.
General Delivery
Florence, Colorado

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

The sketch map submitted with your application which you requested to be returned is attached.

Very truly yours,

/s/ John F. Shaw for
W. H. King
Field Team, Region IV

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

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Mining Division
Region IV

October 15, 1952

Memorandum

To: Field Team, Region IV

From: Acting Chief, Mining Division, Region IV

Subject: Final Report, DMEA Docket 2679, (Nickel-Molybdenum) C. and B. Mining Company, Chaffee County, Colorado

Enclosed are eight copies of a memorandum report by C. M. Harrer on DMEA-2679.

The applicant requested $10,094 to unwater and rehabilitate the Little Guy shaft and explore vein extensions.

Harrer concludes that the probability of developing appreciable reserves of molybdenum ore on this property is very remote. There was no evidence of nickel mineralization.

He recommends denial and we concur in this recommendation.

John F. Shaw for
W. H. King

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
10-24-52
(date)

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

200 New Customhouse
Denver 2, Colorado

October 3, 1952

Memorandum

To: DMEA Field Team, Region IV

From: A. H. Koschmann

Subject: DMEA Docket 2679, C & B Mining Company, Chaffee County, Colorado.

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A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Enclosures (8)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Room 137, Building 20
Denver Federal Center
Denver 14, Colorado
October 9, 1952

Memorandum

To: Executive Officer, Field Team, Region IV

From: Chief, Colorado Branch, Mining Division, Region IV

Subject: DMRA 2679 (Nickel-molybdenum), C. and B. Mining Company, Chaffee County, Colorado

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The only evidence of the existence of molybdenite was the small amount of low-grade material found on the dumps. The occurrence of a nickel mineral proved only a suspicion.

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W. M. Traver, Jr.

W. M. Traver, Jr.

enclosures

WMT/amh

cc 8
DMRA 2679
DMRA Chron.

September 25, 1952

Memorandum

To: Mr. A. H. Koschmann

From: D. R. MacLaren, Geologist, U. S. Geological Survey

Subject: DMEA Docket 2679, C & B Mining Company, Chaffee County, Colorado.

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Room 137, Building 20
Denver Federal Center
Denver 14, Colorado
October 9, 1952

Memorandum

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2/ Mineral Resources of Colorado, 1947, p. 48.

The probability of developing appreciable reserves of molybdenum ore on this property is very remote.

Denial of the application for exploration assistance is recommended.

C M Harrer

C. M. Harrer
Mining Engineer

CMH/amh

cc 8

Mr. Cleve Cutler
C & B Mining Company
Florence, Colorado

Subject: DMEA-2679
Re: Exploration Assistance
Little Guy Mine
August 29, 1952

My dear Mr. Cutler:

The receipt of your application dated August 12, 1952, for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-2679 and referred to Mr. W. H. King, Executive Officer, DMEA Field Team, Region IV, 224 New Customhouse Building, Denver 2, Colorado.

Kindly refer to DMEA-2679 in any future correspondence relating to your application.

Sincerely yours,

SIGNED

Wingfield Chamberlain
Acting Chief, Operation's
Control and Statistics Division

R-1035
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

Department of the Interior
Defense Minerals Administration
RECEIVED
AUG 29 1952

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-2679
Metal or Mineral
Date Received 8-29-52
Estimated Cost
Participation (Government %)

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: C & B MINING COMPANY, Florence, Colorado (1b) The C. & B. Mining Company is a copartnership, formed by Cleve Cutler andHarley Badger, organized in the State of Colorado(1d) Cleve Cutler, Florence, Colorado and Harley Badger, 721 La Forge St., Louisville, 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. see above

(*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. see above

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 six lode mining claims-600 ft. by 1500 ft, located in Sec. 23, Twp. 8 South, Range 81 East 6th P. M., Chaffee County, Colo.

(*b*) State any mine name by which the property is known. The mine will be known as the Little Guy

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

(*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

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

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. see attached.

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

(*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. see attached

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

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

5. *The exploration project.*—(*a*) [redacted]e the mineral or minerals for which you wi[redacted] explore .....
Molybdenum and nickel

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

(*c*) The work will start within ..... days and be completed within ....., months from the date of an exploration project contract. see attached

(*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. see attached

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.). we do not intend to contract any of the exploration work

(*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. see attached.

(*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. see attached

(*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. see attached

(*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. see attached

(*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. see attached

(*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. see attached

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? see attached

☐ Money ☐ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

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 22, 1952

My Commission Expires Aug. 12, 1954

C. and B. Mining Co
(Applicant)

By Clem C. Luther

Nellie Mae Robert

Notary Public

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.

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3. (f) Unpatented mining claims, as follows:
Little Guy Lode Claim - Book 183, page 138
Little Nell Lode Claim- Book 183, page 136
Goldie Lodd Claim - Book 183, page 138
Evelyn Lode Claim - Book 183, page 137
Kitty Lode Claim No. 1 - Book 183, page 139
Hangover Lode Claim No. 1 - Book 183, page 139
Recorded at Salida, Chaffee County, Colorado.

4 (a) A shaft was sunk 80 feet at the point shown on the enclosed sketch. A short crosscut was driven Southeast to vein No. 1. Mill Bin ore was mined from this vein assaying 2%-3% molybdenum, and about 400 tons were stock-piled and a mill started. However, the old company failed to do any more as they ran out of funds. Property was held until July 1, 1951, and abandoned. This mining was done in 1940, and some work was done in 1941.
All rights, title and interests of the now defunct Cresent Molybdenum Company were held by Harley Badger, a partner in the C. & B. Mining Co. Mineral rights were acquired by relocation.
Mine has road to the shaft.

4 (b) About 400 tons of mill ore was mined assaying 2% to 3% molybdenum. Reserves unknown. No current production.

(c) This molybdenum deposit is of the vein type, running North and South and dipping East at about a 60° angle. Vein No. 1 on the sketch shows heavy pyrite and quartz, assaying from 25% to 20% molybdenum. Surface operation shows a width of about 10 feet. However, this vein ties in width Vein No. 2. This vein is about 15 feet in width at the surface under the creek. This is mostly a quartz, showing considerable molybdenum and oxidised nickel.
As there is no good chance to explore this vein from the surface we wish to complete a crosscut to this vein from the workings on vein No. 1. This crosscut was started in1940 but was not completed. We do not know how far it was driven as the old records are not available. To determine first what has been done would require pumping out the shaft and opening up the old workings. This would give us the amount of ore reserves in vein No. 1.
We had S. L. Daniel, mineral geoligist of the State School of Mines at Golden examine this property and he stated we very definately had a mine; that lead no. 2 is the main ore body; also there should be considerable nickel in conjunction with the molybdenum. He could very definately tell this with the main outcrop shown on the map. Further East there are two more vein structures showing nickel and molybdenum.
We plan to construct a mill but would like to know the ore reserves and also what nickel we would have so we could save it. The nickel value can only be established by this depth exploration. This exploration will not be on main ore deposit; as shown on the map. This is inaccessible at the present time and would require a large sum of money to start operating something we do not have.
The main molybdenum outcrop is about 250 feet wide by 1300 feet in length; further length cannot be determined because of the overburden. This runs from 1½% up, with select samples running 20% and over. There is an elevation of 12,490 feet on the outcrop, while the Little Guy mine is at 10,000 feet.

(d) The Little Guy mine has a road to the shaft. This is first a graded dirt road but fair. Mine is eight and one-half miles off the Leadville-Buena Vista Highway. Residence is at the mine. Three good cabins and a large cabin for mess hall, all in good repair.

(e) The exploration will not require much manpower, and is available. The owners will be half of the help needed.
Timber and lumber can be had at the mine; worlds of water; general supplies available.
The equipment needed will be a drifting set up; including hose, drill, shanks and fits. Air and water pipe and an air sinker pump. We have power compressors and hoist. A detailed list will be submitted with this sheet, including cost. Power will be gasoline.

5. (b) Pump out shaft, clean out shaft and old workings. Determine as far as possible ore reserves on vein No. 1. Crosscut to vein No. 2, and draft on it tells its value is established. The sketch will show the exploration plan.

(c) The work will start at once and completed in six months.
Note: If contract is not made at once, it would not be feasible to start later than October 1, 1952, as winter conditions would be against starting. It would not be bad if operations will be under way by October 1st.

(d) The applicant and co-owner, Cleve Cutler, has the operating experience and ability to carry out this exploration. He has had about eight years of metal mining experience on XEIN type of mining. Has done drifting crosscutting, shaft work and driven raises, as well as all work appurtenant thereto. He has had ten years experience in heavy construction; working heavy equipment and supervising. Most of mining experience was had in Butte, Montana working for the Anaconda Copper Mining Company. He has operated practically all types of equipment and kept it in repair.

6.(b) Supervision and mining will be done by owners. Rate $1.75 per hour. Two helpers at $1.50 per hour. Engineering and geological consulting fees cannot be estimated at the time of application. Payroll for exploration will be about $4000.00

(d) (1) Equipment to be furnished by the operator:

2 stationary compressors:	Gardiner Denver	235 Cu ft.	
	Pennsylvania	250 Cu ft.	
2 air operated plunger pumps:	Fairbanks & Morris	1½"	discharge
	Gardiner Denver	3"	discharge

Gasoline power 100 hp.
Air operated hoist- two ton capacity
Air receiving tank
All hand tools and transportation.

(2) Would rent a mucking machine; about $250.00 per month
Six months rent @ 250.00 - $1500.00

(3) Would purchase:

1 Thor sinker pump	360.00
1 Stope Hammer	670.00
2 50 ft. length 1" air hose	73.80
2 50 ft. length ½" water hose	47.60
1 air line lubicator	19.25
1 Carset bit wrench	11.00
6 2 ft. drill shanks	29.40
6 4 ft. drill shanks	40.80
4 6 ft. drill shanks	34.80
10 1 5/8" Carset Carbide bits	159.50
10 1/ 3/4" Carset Carbide bits	165.00
600 ft. mine rails @ $50.00 per ton	150.00
300 ft. 2" air pipe	143.75
300 ft. 1" water pipe	81.00
2 8 cu ft mine cars	100.00
70 cases 45% dynamite	607.25
6000 ft fuse	90.00
800 blasting caps	16.00
200 ft 5/8" wire rope	68.00
	$2867.15

(e) All equipment owned by the operators, as well as livhng quarters will be in good repair, and no cost will be charged to the exploration program. These will consist of two compressors (485 cu. ft. capacity) two pumps, one air hoist, four cabins and compressor house.

(f) There will be no new buildings or installations necessary for the exploration project.

(g) Maintenance costs would be hard to determine at the outset of the program. Payroll, taxes or social security and workman's liability insurance: $300.00. Assaying and analytical work: $150.00.

(h) An estimate of contingencies: $500.00
Total estimated cost to pump out shaft, clean out old workings, and cross-cut and drift about 300 ft:
Total summarized as follows:

Rentals	$1500.00
Purchases	2867.15
Payroll,-tax, ins., assays	450.00
Payroll	4000.00
Contingencies	500.00
Sales tax	57.34
	$9394.49
Gasoline and oil	1000.00
Total	$10394.49

7. (b) We will be prepared to furnish $1500.00 in cash. The balance will be in the equipment we will furnish.

Two Compressors (485 cu. ft. capacity)
Two pumps
100 Hp. gasoline motor
Air operated hoist
Air receiver tank
Four cabins and compressor house
All hand tools and transportation.

Since the Defense Minerals Exploration Administration allows 50% for molybdenum and 90% for nickel, we are computing this application on the basis of 70% for both.

Total cash cost	$10,394.49
Operators cash investment	1,500.00
Tools & equipment to be used	

Total estimated cash cost	$10,394.49
Operators cash to be invested	1,500.00
Assistance needed for exploration	8,894.49
Equipment supplied by operator: Minimum value	2,500.00