DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. DMEA-3166

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Exploration Assistance

Any action taken to change the type of request for assistance must be promptly reported to the Reports and Records Branch. Use DMA Form 2 for submitting these reports.

1 cy to Reg., USBM, USGS & Docket

Routing Slip

To:	Code 400 Rm: 3538	Date	9-14-53
To:	Code 400	Date	9/18/53
To:	Code 400	Date	10/15/53
To:	Open Com	Date	10-26-53
To:	480	Date	10-27
To:	Code 400	Date	12/23/53
To:	Open Com	Date	2-10-54
To:		Date	
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IN REPLY REFER TO:

3166

Co-Cu

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

February 12, 1954

Memorandum

Re: IMEA-3166
Humboldt King Mine
Humboldt County, Nevada
Cobalt-Copper

To: Mr. W. R. Griswold

From: E. L. Newcomb

NSM

Subject: Concurrence with field team denial.

We have been requested to review the subject application, because of the presence of copper in samples obtained by the field team examiners.

The applicant has proposed a diamond drilling project for his property to explore for possible cobalt-bearing ore bodies.

Assays of the three samples taken by the field team contain less than 0.1 per cent cobalt. Two of the samples ran less than 0.4 % copper and the third contained 1.30 % copper. This high copper assay was obtained from selected quartz stringers and therefore is not a representative sample.

Mineralization occurs in quartz veins and veinlets which average one-half inch or less in thickness. None of the quartz veins are of mining width as they are seldom more than 10 inches wide. Within this narrow width the cobalt-copper ore shoots swell and pinch erratically along the strike.

The limited amount of mineralization and its very low grade indicates that the proposed exploration is not justified. I concur with the field team and recommend the application be denied copper or cobalt exploration assistance.

E. L. Newcomb
Geologist

Denied 2/10/54

FEB 10 1954

Mr. and Mrs. L. F. Bradbury
P. O. Box 283
Altures, California

Re: Docket No. DMEA 3166 - Cobalt and Copper
Humboldt King mine
Humboldt County, Nevada

Dear Mr. and Mrs. Bradbury:

Your application for aid for an exploration project and other data available to us in Washington relating to the above named property have been reviewed.

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

Careful study of all our information, although noting small amounts of cobalt and copper mineralization on your property, indicates to us that the probability of disclosing minable ore reserves by your proposed program is not sufficiently promising to justify Government participation. We regret to advise, under these circumstances, that your application for exploration assistance is denied.

We wish to thank you for your interest in the Defense Minerals Exploration Program and for bringing your property to our attention.

Sincerely yours,

C. O. Mittendorf

Administrator

JHopkins/fcc
2-9-54

cc: Docket
Code 400
Adm. Reading File
Operating Comm.
Field Team, Region 3
H. W. Davis, Rm. 3519
Phillip Guild, Rm. 4205 - GSA

FEB 10 1954

Memorandum

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division

Subject: Denial of application for exploration assistance in the amount of $10,000.00
Docket No. DMEA 3166 - Cobalt and Copper
Lou and Alma Bradbury
Humboldt King mine
Humboldt County, Nevada

The denial of the subject application by this Division is based on the following information:

1. The applicant requested exploration assistance in the sum of $10,000.00 to explore for cobalt and copper on the Humboldt King mining property, Humboldt County, Nevada.

2. The main mine workings consist of two adits, one of which contains about 250 feet of drifts and crosscuts and also a small stope; the other, about 150 feet of drifts and crosscuts, two small stopes and a winze. There are also four other adits, each about 10 to 15 feet in length. Practically all were driven prior to acquisition of the property by the applicant. There are no available data on past production. There are no ore reserves.

3. The area in the Jackson mountain range is underlain by metamorphic rocks principally hornfels that have been intruded by a monzonite stock. The rocks are cut by numerous faults in several systems, and the cobalt-copper ore bodies of the Humboldt King mine are quartz stringers and veinlets as much as 10 inches wide along the faults, but averaging 1/2 inch or less in thickness.

4. The primary sulfide minerals are chalcopyrite, pyrrhotite, and covellite. No cobalt sulfide mineral has been found on the property. The cobalt mineral erythrite

occurs in fractures in and near the quartz veinlets and also as post-mine drusses and crusts.

5. Three samples were taken and their locations and assay data follow:

Sample No.	Percent Co	Percent Ni	Percent Cu	Ounces/Ton Au	Ounces/Ton AG	Location
518	0.05	0.10	0.34	Tr.	Tr.	In creek bed
519	0.05	0.02	1.30	Tr.	0.20	Face 250-ft. tunnel
520	0.08	0.06	0.22	Tr.	Tr.	Selected high-grade cobalt bloom - 250 feet tunnel.

6. The Examining Team concludes that sufficient underground and surface work has already been done to indicate that the geologic target for a drilling program is too small to warrant such a program and the possibility of locating cobalt ore reserves of economic value is slight.

7. The Field Team concurs with the recommendation by the Examining Team that the application be denied.

8. The Commodity Divisions of the Geological Survey and Bureau of Mines concur with the denial.

W. S. Martin, Chief
Iron and Ferro Alloys Division

JHOPKINS/foc
2-9-54
cc: Docket
Code 400
Adm. Reading File
Operating Comm.

400

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

1012 Flood Building
870 Market Street
San Francisco 2, Calif.

January 28, 1954

Memorandum

To: George C. Selfridge, Chairman, Operating Committee, DMEA, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA-3166 - Cobalt and Copper
Lou and Alma Bradbury
Humboldt King Mine
Humboldt County, Nevada

Reference is made to your letter dated October 26, 1953, requesting a field examination of the subject property.

Attached are four copies of a report entitled "DMEA-3166, Humboldt King Mine, Humboldt County, Nevada, (Cobalt and Copper)," by Roscoe M. Smith, Geologist, U. S. Geological Survey, and Frank J. Wiebelt, Mining Engineer, U. S. Bureau of Mines, dated January 26, 1954, covering the examination of the property.

The engineer and geologist are in agreement that the application for a loan should be denied, as there is not sufficient showing of mineralization to warrant an exploration project. The writer concurs with the recommendations that they have made.

S. RICKER

S. Ricker for H. C. Miller
Executive Officer
DMEA Field Team, Region III

Attachment

Copy to: Roscoe Smith, USGS (With copy of report)

Reviewed by
DMEA OPERATING COMMITTEE
2-5-54
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA-3166, Humboldt King Mine

Humboldt County, Nevada

(Cobalt and Copper)

DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration
RECEIVED
FEB 1 1954

Roscoe M. Smith, Geologist
U.S. Geological Survey

Frank J. Wiebelt, Mining Engineer
U.S. Bureau of Mines

January 26, 1954

Reviewed by
DMEA OPERATING COMMITTEE
2-5-54
(date)

EXAMINATION REPORT

Docket No.: DMEA-3166 (Cobalt and copper)

Name and address of applicant: Lou Franklin Bradbury and Alma Irene Bradbury
P. O. Box 283, Alturas, California

Name and location of property: Humboldt King Mine
Humboldt County, Nevada

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

The cobalt-copper ore bodies of the Humboldt King mine are quartz stringers and veinlets as much as 10 inches wide along faults. The width of the veinlets will average 1/2-inch or less in thickness. The primary sulfide minerals are chalcopyrite, pyrrhotite, and covellite. The cobalt mineral erythrite occurs in fractures in and near the quartz veinlets and also as post-mine druses and crusts. Cobalt occurs in two localities about 1,000 feet apart.

There is no ore in sight at the mine.

Results of samples taken by the examiners from the property indicate that the cobalt content from selected locations contain less than 0.1% cobalt.

The applicant has had very little if any mining experience and is not competent to carry out an exploration project. He has no definite drill hole sites for his proposed diamond drilling exploration project.

It appears that sufficient underground and surface work has already been done to indicate that the geologic target for a drilling program is too small to warrant such a program and the possibility of locating cobalt ore reserves of economic value are slight.

It is recommended that the exploration loan request be denied.

Roscoe Smith of the U. S. Geological Survey and Frank J. Wiebelt of the Bureau of Mines spent the afternoon of Nov. 12 and Nov. 13, 1953 on the property. They were accompanied by Lou Bradbury, one of the applicants.

NAME AND LOCATION OF PROPERTY

The Humboldt King mine, in Humboldt County, Nev., is about 91 miles by road northwesterly from Winnemucca, Nev. It is situated on the west slope of the Jackson Mountains, in a canyon south of Jackson Creek.

The property is accessible by automobile from Winnemucca, Nev., by following U. S. Highway 95 northerly 31.8 miles, State Highway No. 8A westerly 35.9 miles, Leonard Creek road southerly 7.8 miles and then continue southerly 13.1 miles to the Jackson Creek ranch at which point turn easterly along the Jackson Creek road 0.5 miles, thence southerly 0.3 miles and thence 0.8 miles easterly to an old apple orchard. From this point a road suitable only for a jeep extends easterly about half a mile to the property.

ACCESSIBILITY

The roads from Winnemucca to the mine consist of 67.7 miles of paved highway accessible throughout most of the entire year and 23 miles of unimproved dirt road which in times of heavy snow fall is inaccessible.

COMPETENCY OF APPLICANT

The examining geologist and engineer are of the opinion that the applicant has had very little if any mining experience and he is not competent to operate an exploration project. His sampling at the property consisted of selected material which is not representative of the average grade of ore on the property.

APPLICANTS PROPERTY RIGHTS

Lou Franklin Bradbury and his wife Alma Irene Bradbury, the applicants hold by location the unpatented claims known as the Humboldt King, the Humboldt King II and the Humboldt King IV. The book and page numbers of record of location notices as given by the applicant in their application follows:

Book A-4 - page 550 claim named Humboldt King
Book A-4 - page 588 claim named Humboldt King II
Book A-4 - page 603 claim named Humboldt King IV
Book 5 - page 212 claim named Humboldt King V

DESCRIPTION OF THE PROPERTY

There are no surface facilities on the property.

The main mine workings consist of two adits, one of which contains about 250 feet of drifts and crosscuts and also a small stope; the other about 150 feet of drifts and crosscuts, two small stopes and a winze. There are also four other adits, each about 10 to 15 feet in length on the property.

SAMPLING

Three samples were taken and their location and assay data follow:

Sample No.	Percent Co	Percent Ni	Percent Cu	Ounces/Ton Au	Ounces/Ton Ag	Location
518	0.08	0.10	0.34	Trace	Trace	In creek bed (area 5 feet by 30 feet)
519	0.05	0.02	1.30	Trace	0.20	Selected quartz stringers containing sulfides and source of cobalt? face of 250-foot tunnel.
520	0.08	0.08	0.22	Trace	Trace	Selected high-grade cobalt bloom - 250-foot tunnel - sample taken by Bradbury.

GEOLOGY

The western flank of the Jackson range is underlain by metamorphic rocks of probable Paleozoic age. The higher part of the range is metavolcanic rock, and the foothills (in the Humboldt King mine area) are hornfels, quartzite, and argillite which have been grouped together and called hornfels. Metamorphic rocks have been intruded by a monzonite stock having an outcrop about 100 feet in diameter. The monzonite contains very few dark minerals; it is fresh, unfractured, contains no quartz

seams and no ore minerals. The rocks are cut by faults in several systems -- one set strikes north and dips west, another set strikes northeast and dips northwest, and the third set strikes southeast and dips southwest.

In the mine area the hornfels series is in fault contact with meta-andesite along a north-striking fault. Quartz stringers and veinlets occupy all three sets of faults on both sides of the fault contact. The Humboldt King mine explored quartz veinlets near the fault contact.

ORE DEPOSITS

The cobalt-copper ore bodies of the Humboldt King mine are quartz stringers and veinlets as much as 10 inches wide along faults. The veinlets pinch and swell along the strike and are as much as 10 inches wide but will average 1/2-inch or less in thickness. The primary sulfide minerals are chalcopyrite, pyrrhotite, and covellite. No cobalt sulfide mineral has been found at this property. The cobalt mineral erythrite (cobalt bloom) occurs in fractures in and near the quartz veinlets and also as post-mine druses and crusts. Copper occurs in chalcopyrite, malachite, and chrysocolla in quartz veinlets and adjacent metamorphic rocks.

Cobalt occurs in two localities about 1,000 feet apart: The Humboldt King discovery cut and the Humboldt King mine. The Humboldt King discovery cut consists of a creek bed, the bottom of which is cleaned in two places to reveal north-striking quartz stringers containing chalcopyrite and secondary copper and cobalt minerals. These occur in two zones

about 5 feet wide and 30 feet long which may average 0.1 percent cobalt and copper. The zone is not persistent along the strike. A selected sample taken by the owner assayed about 1.0 percent cobalt. This sample may be accepted as reliable and indicative of the grade of selected material but very little more of this selected material could be found. In the Humboldt King mine a quartz veinlet about 1 inch wide strikes northwest and dips nearly vertical. The veinlet is in hornfels near an east striking contact with marble. A small shaft and intermediate level appear to have yielded no ore but the lowest level contains two small stopes each about 6 feet wide, 15 feet long, and 40 feet high. There is no ore in sight in the mine workings. Evidently most of the samples taken of the cobalt at this property were of erythrite which coats the walls of the mine workings at a post-mine efflorescence.

Elsewhere on the property, quartz veinlets as much as 10 inches wide but averaging less than 1-inch in width contain small amounts of chalcopyrite and occur in zones of bleached hornfels as much as 50 feet wide which are slightly copper-stained. Several of these zones occur south of Humboldt King mine and two have 15-foot adits driven on their outcrops. These adits are barren at the face. At the Humboldt King No. 2 discovery pit, a quartz vein which strikes northeast and dips northwest, occurs in meta-andesite. A little copperstain occurs near the veinlet. Apparently no ore was produced. The monzonite stock, occurring

south of the Humboldt King workings, shows no signs of disseminated copper or iron mineralization.

ORE RESERVES

There are no reserves of any class at the Humboldt King mine.

PAST OPERATIONS

Practically all of the mine workings were driven prior to the acquisition of the property by the applicant. The present owner has only done a small amount of surface work. There is no available data on past production and indications indicate that such production was relatively small and not profitable. The mine contains no ore reserves and past production came from very small stopes.

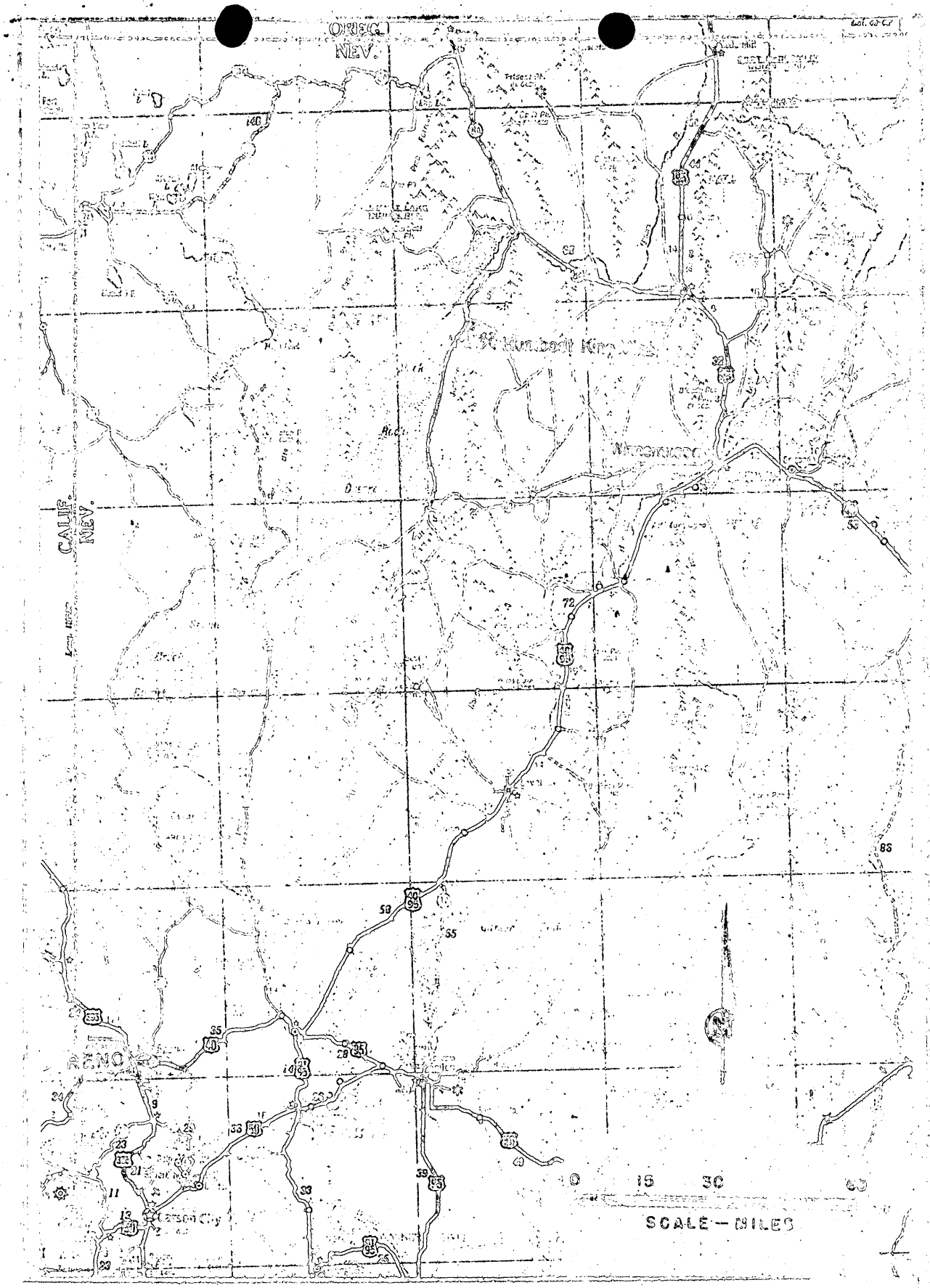
MANPOWER, SUPPLIES, ETC.

Manpower, supplies, materials and equipment are obtainable from Winnemucca, 92 miles distant and Reno, Nev., 259 miles distant. Groceries, oil and gasoline and postal service are available at Denio, Nev., 53 miles from the property. There is no electric power available at or near the mine. Water is obtainable for mine and camp use from a small creek on the property.

APPLICANTS PROPOSAL

The applicants proposal was to set up a 1,000-foot diamond drilling exploration project to develop the cobalt ore in his properties. He has no definite drill hole sites in mind. The geologic target for the proposed drilling program or any alternative program is too small for con-

sideration and it is the opinion of the examining engineer and geologist that no large tonnage of cobalt ore of economic value would be developed by a diamond drilling or any other alternative program.



Location map - Humboldt King Mine, Humboldt County, Nevada

400

DEC 22 1953

Mr. and Mrs. [illegible] Bradbury
P. O. Box 283
Alturas, California

Re: Docket No. DMA 316C - Cobalt
and Copper
Humboldt King mine
Humboldt County, Nevada

Dear Mr. and Mrs. Bradbury:

This will acknowledge receipt of your letter of December 13, 1953, inquiring about the status of your application.

Our information is that, as of December 1, 1953, the examination of the Humboldt King mine was completed and the field report was then in course of preparation. After that report has been received here and reviewed, you will be promptly advised.

Sincerely yours,

Frank E. Johnson

ACTING Administrator

WSMartin/ls
12/21/53

cc: DOCKET
FT, REG. 3
CODE 400
AUL. [illegible], FIRS
H. L. DAVIS, USBM
PHILLIP GUILD, USGS

OCT 2 6 1953

Mr. H. C. Miller, Executive Officer
DMEA Field Team, Region III
1012 Flood Building
870 Market Street
San Francisco 2, California

Re: Docket No. DMEA 3166 - Cobalt & Copper
Lou and Alma Bradbury
Humboldt King mine
Humboldt County, Nevada

Dear Mr. Miller:

Reference is made to the above-docketed application for exploration assistance which is being referred to your office for a field examination of the property.

A memorandum by T. P. Thayer, Geological Survey, has been prepared and is enclosed for your information. Also enclosed are other data and a map furnished by the applicant.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

APPROVED:

J. H. Hedges

Member, Bureau of Mines

T. P. Thayer

Member, Geological Survey

FARutledge:foc
10-23-53
cc: Docket
Code 400
FT. Reg. 3
Operating Comm.
Admr. Reading File
H. W. Davis, USBM
Phillip Guild, USGS

400

OCT 26 1953

Mr. & Mrs. L. F. Bradbury
P. O. Box 283
Altures, California

Re: Docket No. DMEA 3166 - Cobalt - Copper
Lou and Alma Bradbury
Humboldt King mine
Humboldt County, Nevada

Dear Mr. and Mrs. Bradbury:

Reference is made to the above-docketed application for exploration assistance which has been reviewed by the Iron and Ferro-Alloys Division of the Defense Minerals Exploration Administration and referred to Mr. H. C. Miller, Executive Officer, DMEA Field Team, Region III, 1012 Flood Building, 870 Market Street, San Francisco 2, California, for a field examination of the property.

The Regional Office will contact you at an early date with regard to an examination of your property. Any assistance that you can render the members of the field team during the examination will be appreciated.

Sincerely yours,

C. O. Mittendorf

Administrator

FARutledge:foc
10-23-53
cc: Docket
Code 400
FT. Reg. 3
Operating Comm.
Admr. Reading File
H. W. Davis, USBM
Phillip Guild, USGS

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

400

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 15 1953

October 13, 1953

Memorandum

To: W. S. Martin, DMEA

From: T. P. Thayer, USGS

Subject: DMEA-3166, Copper, Cobalt, Nickel
Lou and Alma Bradbury
Box 283
Alturas, California

The applicant proposes 1,000 feet of diamond drilling at undesignated locations on a vein of undetermined width in Jackson Canyon on the west slope of the Jackson Mountains in Humboldt County, Nevada. Assays show up to about 14 percent copper, and small amounts of cobalt. The highest assay for cobalt reported by the University of Nevada showed 0.7 percent, the average about 0.3 percent on material showing visible erythrite. A very little nickel was also reported.

The failure to present more pertinent information does not speak well for the competence of the applicant, and the assay data are not encouraging. Small nickel occurrences are known in northcentral Nevada, so the reported deposit is not surprising.

It seems fruitless to seek more information from the applicant. I would suggest that the docket be referred to the field for examination when convenient.

T. P. Thayer

Copy retained 200

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UNITED STATES DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration.

1. Lou Franklin Bradbury and Alma Irene Bradbury, P. O. Box 283, Alturas, California.

(d) Husband and wife.

3. Applicant's property rights:

(a) Three mining claims; each 600 feet wide by 1500 feet long. The cobalt is associated with copper ore which analyses as high as 14 per cent cu.

(b) The book and page numbers for each unpatented claim are:

Book A-4 ... Page 550	Mine named Humboldt King
Book A-4 ... Page 588	Mine named Humboldt King II
Book A-4 ... Page 603	Mine named Humboldt King IV

(c) Owners - Lou Franklin Bradbury and his wife Alma Irene Bradbury

4. No mining now being done. Mine working consists of one tunnel approximately 250 feet long; including one stope, one cross cut; and an extension drift. Also a tunnel approximately 150 feet long including two stopes and a winze. There are about four other short tunnels; also I have an open pit.

My interest at this time is to develop the cobalt ore in these properties. I also want to core drill the property.

It is possible to drive to within three hundred feet of the property.

(b) New discovery assays up to 1.2 per cent cobalt.

(c) Seems to be in vein form showing very strong cobalt bloom. My reason for wanting to explore is to ascertain probable value and extent of cobalt deposit. Have no map or other information to include with this form.

(d) Good access road to within 300 feet of property; thirty miles to shipping; supplies -- 90 miles.

(e) Manpower, supplies and equipment must be brought in; water on property. Have to use gas power.

5. Wish to explore cobalt mineral.

(b) 1000 feet drilling. Do not have a map. Consists of veins and other deposits.
(c) Work to start within 30 days and to be completed within 3 months.
(d) Supervision by a geologist.

6. Estimate of costs:

1000 feet drilling at $7.00 per foot	$ 7000.00
Salary 3 months @ $500 per month....	1500.00
Construction of small core and sludge shelter	500.00
General construction work and supplies	1000.00
t o t a l	$ 10,000.00

(a) Will contract with drillers, costing approximately $7.00 per foot

(b) Will engage the service of an experienced supervisor who is familiar with diamond drilling, logging, cores, and sludge sampling.

(c) Included under driller's cost of $7 per foot.

(d) Covered under driller's cost of $7 per foot.

(e) None

(f) $500 to build small core and sludge shelter.

(g) None

(h) None

7. Yes.

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

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-3166
Metal or Mineral
Date Received 9-14-53
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: _____

(*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 _____

(*b*) State any mine name by which the property is known.

(*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.

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 .....

.....

(*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 ..... days and be completed within ..... 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)?

(*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.

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 9-8-53, 1953

(Applicant)

By Alma Irene Bradbury

Jon Franklin Bradbury

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

400

SEP 17 1953

Mr. & Mrs. L. F. Bradbury
P. O. Box 283
Alturas, California

Re: Docket No. DMEA 3166 - Cobalt-Copper
Humboldt King mine

Dear Mr. & Mrs. Bradbury:

Your application for exploration assistance in exploring for cobalt and copper on the referenced property has been reviewed by the Iron and Ferro-Alloys Division, Defense Minerals Exploration Administration.

The information submitted with your application is insufficient to justify a field examination by the Government. No data were submitted to substantiate the occurrence of the metals for which exploration assistance was requested. While the claims on which the exploration was to be conducted were identified as the Humboldt King, Humboldt King II, and Humboldt King IV, their location and the location of their recording were not given. In addition, no detailed plan of exploration and no map showing either the local geology or the target of the proposed exploration were included with your application.

Before your application can be considered further, you should furnish us with the following data:

1. Analyses of samples to substantiate the occurrence of cobalt and copper.
2. Location of Recording office
3. Location of property
4. Map showing present workings, claims, location of samples, mineralization, proposed exploration, and target of the exploration program

We will, therefore, hold your application in abeyance until the requested data have been received.

Sincerely yours,

SIGNED

W. O. Martin, Chief
Iron and Ferro-Alloys Division

FAHutledge:foc 9-17-53
cc: Docket
Code 400
Adm. Read. File

C
O
P
Y

400

Mr. W. S. Martin
Iron and Ferro-Alloys Division

Docket No. DMEA - Cobalt-Copper
Humboldt King mine

Sept. 29, 1953

Received your letter of Sep. 17th in regards to a application for a loan to develope our cobalt and copper mine, and as a prospector I will try to answer your question as near as possible.

No. 1. I am sending you a copy of the assays to substantiate the occurrence of cobalt and copper.

No. 2. The mining claims are recorded in Winnemucca, Humboldt County and are in the state of Nevada.

No. 3. The location of the property is about 90 miles northwest of Winnemucca, Nev. and on the west slope of the Jackson Mountains in a canyon below Jackson Creek, at present I do not know the section or range but will get it for later referance.

No. 4. Inclosed you will find a map of the workings and claims.

The location of where the samples were taken will be stated on each assay. The mineralization that I am not to sure it is of a green formation and there is a large lime deposit or belt as you may call it, it seems to be in a contact formation what it is I will not try to name them.

As far as target exploration program I think that was in the application and that was to core drill to develope the cobalt ore.

I have just added one more claim to the Humboldt group known as the Humboldt King No. 5. and is recorded in Winnemucca Nev. and recorded in Book 5 and page 212.

I have answered your question to the best of my ability and do hope that they are O. K.

Sincerely yours

Mr. and Mrs. Bradbury
P. O. Box 283
Alturas, California.

That attached copies, numbered one to seven, are true copies of original documents.

L . F. Bradbury

Subscribed and sworn to
before me this 28th day
of September, 1953.

Laurine Hansen
Notary Public in and for
County of Modoc, State of
California

Hand Sample Serial 30129

Assay Report
UNION ASSAY OFFICE, Inc.
J. V. Sadler, President
Salt Lake City 10, Utah

MINE: James R. Wilson

Results per ton of 2000 pounds Feb. 18, 1953

NO.	GOLD Ozs. per Ton	SILVER Oza. per Ton	COPPER Per Cent	CO Percent
24805	Trace	0.3	0.30	0.60

J. V. Sadler

Open copper and cobalt pit on south end of Humboldt King claim.

NEVADA MINING ANALYTICAL LABORATORY

UNIVERSITY OF NEVADA

No. 1048

Reno, Nevada

Mr. L. F. Bradbury
Box 283
Alturas, California

Date: September 4, 1953

Report on sample or specimen received from you on 8-28-53

Number	Mineral or Rock	Ounces Per Ton Gold	Ounces Per Ton Silver
1	Metamorphosed rock with pyrite and chalcopyrite		Copper 1.4%
2	Same as #1		Copper 1.2%

Grab sample 50 feet inside of tunnel, near face of tunnel.

/s/ By Claude W. Hammond
Analyst.

NEVADA MINING ANALYTICAL LABORATORY

UNIVERSITY OF NEVADA

Reno, Nevada

No. 881

Mr. L. F. Bradbury
Box 283
Alturas, California

Date: August 30, 1952

Report on sample or specimen received from you on August 27, 1952

Number	Mineral or Rock	Ounces Per Ton Gold	Ounces Per Ton Silver	
	Chalcopyrite, quartz, malachite	None	None	Copper- 13.8% Nickel- None Cobalt- None

Open copper and cobalt pit on
south end of Humboldt King claim.

/s/ By Claude W. Hammond
Analyst.

NEVADA MINING ANALYTICAL LABORATORY

UNIVERSITY OF NEVADA

NO. 517

RENO, NEVADA

Mr. L. F. Bradbury
Box 283
Alturas, California

Date June 10, 1952

Report on sample or specimen received from you on June 5, 1952

Number	Mineral or Rock	Ounces Per Ton Gold	Ounces Per Ton Silver	
1.	Malachite, calcite, pyrite, quartz, erythrite, limonite, chalcopyrite.			Copper-4.5% Cobalt-0.30% Nickel-0.28%
2.	Chrysocolla, malachite, chalcopyrite, pyrite, quartz, limonite, calcite, erythrite.			Cobalt-0.18% Copper-0.1% Nickel-Trace
3.	Malachite, chrysocolla, chalcopyrite, pyrite, erythrite, limonite, quartz	Trace	Trace	Copper-1.3% Cobalt-0.29% Nickel-trace

General over all average sample from open pit on south end of Humboldt King claim.

/s/ By Claude W. Hammond
Analyst.

NEVADA MINERAL LABORATORIES
P. O. BOX 387
Reno, Nevada

ASSAY CERTIFICATE

Mr. L. F. Bradbury 5-20-52

We have assayed your samples and find contains: (per ton of 2000 lbs)

No.	COBALT
1	1.2%

Open copper and cobalt pit on south end of Humboldt King claim

/s/ J. Benj. Parker

NEVADA MINING ANALYTICAL LABORATORY

UNIVERSITY OF NEVADA NO. 314

Reno, Nevada

Mr. L. F. Bradbury
Box 283
Alturas, California

Date: April 28, 1952

Report on sample or specimen received from you on April 23, 1952 is as follows:

Number	Mineral or Rock	Ounces Per Ton Gold	Ounces Per Ton Silver
2	Quartz, epidote, erythrite, chalcopyrite, limonite, chrysocolla, pyrite, heterogenite.		Cobalt- 0.7% Nickel-Trace

Open copper and cobalt pit on south end of Humboldt King claim.

/s/ By W. S. Palmer
Analyst.

NEVADA MINING ANALYTICAL LABORATORY

UNIVERSITY OF NEVADA

Reno, Nevada

No. 736

Mr. E. F. Bradbury
Box 283
Alturas, California

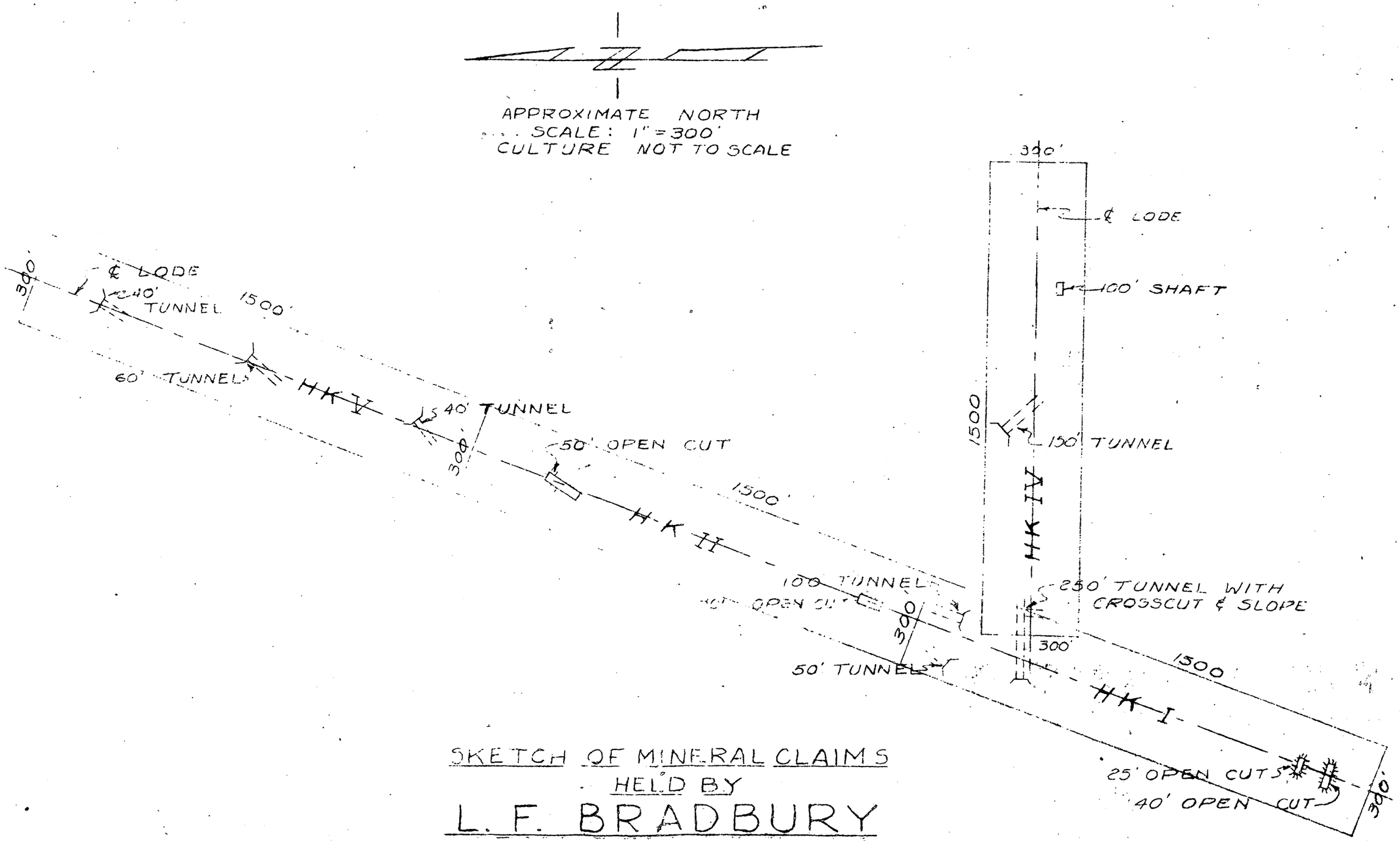
Date: August 4, 1952

Report on sample or specimen received from you on July 25, 1952 is as follows:

Number	Mineral or Rock	Ounces Per Ton Gold	Ounces Per Ton Silver	
1.	Calcite, chlorite, pyrite, erythrite.			Cobalt-0.36% Nickel-Trace Copper-Trace
2.	Calcite, chlorite, pyrite, erythrite.			Cobalt-0.52% Nickel-Trace Copper-Trace
3.	Calcite, chlorite, pyrite, erythrite.	None	None	Cobalt-0.16% Nickel-Trace Copper-Trace
4.	Calcite, iron stained limestone, pyrite, erthrite.	None	None	Cobalt-Trace Nickel-Trace Copper-Trace
5.	Calcite, chlorite, pyrite.	None	None	Cobalt-Trace Nickel-Trace Copper-Trace

Inside of tunnel of Humboldt King, near stope and taken from the hangen wall.

/s/ By Claude W. Hammond
Analyst.



SKETCH OF MINERAL CLAIMS
HELD BY
L. F. BRADBURY

ALTURAS CALIFORNIA
SEPT. 5 1953

CLAIM H-K III
NOT DEVELOPED

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

DEPARTMENT OF THE INTERIOR
Bureau of Mines Administration
RECEIVED
FEB 15 1954

February 12, 1954

Memorandum

Re: IMEA-3166
Humboldt King Mine
Humboldt County, Nevada
Cobalt-Copper

To: Mr. W. R. Griswold

From: E. L. Newcomb

Subject: Concurrence with field team denial.

We have been requested to review the subject application, because of the presence of copper in samples obtained by the field team examiners.

The applicant has proposed a diamond drilling project for his property to explore for possible cobalt-bearing ore bodies.

Assays of the three samples taken by the field team contain less than 0.1 per cent cobalt. Two of the samples ran less than 0.4 % copper and the third contained 1.30 % copper. This high copper assay was obtained from selected quartz stringers and therefore is not a representative sample.

Mineralization occurs in quartz veins and veinlets which average one-half inch or less in thickness. None of the quartz veins are of mining width as they are seldom more than 10 inches wide. Within this narrow width the cobalt-copper ore shoots swell and pinch erratically along the strike.

The limited amount of mineralization and its very low grade indicates that the proposed exploration is not justified. I concur with the field team and recommend the application be denied copper or cobalt exploration assistance.

E. L. Newcomb

E. L. Newcomb
Geologist

FEB 1 0 1954

400
SURNAME
DOCKET
Martin
Davis
Guild
Jarvatze
Hedges
Stoneridge
Hopkins

Mr. and Mrs. L. F. Bradbury
P. O. Box 283
Altaures, California

Re: Docket No. DMEA 3166 - Cobalt and Copper
Humboldt King mine
Humboldt County, Nevada

Dear Mr. and Mrs. Bradbury:

Your application for aid for an exploration project and other data available to us in Washington relating to the above named property have been reviewed.

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

Careful study of all our information, although noting small amounts of cobalt and copper mineralization on your property, indicates to us that the probability of disclosing minable ore reserves by your proposed program is not sufficiently promising to justify Government participation. We regret to advise, under these circumstances, that your application for exploration assistance is denied.

We wish to thank you for your interest in the Defense Minerals Exploration Program and for bringing your property to our attention.

Sincerely yours,

B. O. Mittendorf

Administrator

JHopkins/foc
2-9-54
cc: Docket
Code 400
Adm. Reading File
Operating Comm.
Field Team, Region 3
H. W. Davis, Rm. 3519
Phillip Guild, Rm. 4205 - GSA

DENIED

R.G.B.
2-10-54

DOCKET
SURNAME
Martin
Davis
Gruber
Jarosek

FEB 10 1954

Memorandum

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division

Subject: Denial of application for exploration assistance in the amount of $10,000.00
Docket No. DMEA 3166 - Cobalt and Copper
Lou and Alma Bradbury
Humboldt King mine
Humboldt County, Nevada

The denial of the subject application by this Division is based on the following information:

1. The applicant requested exploration assistance in the sum of $10,000.00 to explore for cobalt and copper on the Humboldt King mining property, Humboldt County, Nevada.

2. The main mine workings consist of two adits, one of which contains about 250 feet of drifts and crosscuts and also a small stope; the other, about 150 feet of drifts and crosscuts, two small stopes and a winze. There are also four other adits, each about 10 to 15 feet in length. Practically all were driven prior to acquisition of the property by the applicant. There are no available data on past production. There are no ore reserves.

3. The area in the Jackson mountain range is underlain by metamorphic rocks principally hornfels that have been intruded by a monzonite stock. The rocks are cut by numerous faults in several systems, and the cobalt-copper ore bodies of the Humboldt King mine are quartz stringers and veinlets as much as 10 inches wide along the faults, but averaging 1/2 inch or less in thickness.

4. The primary sulfide minerals are chalcopyrite, pyrrhotite, and cuvellite. No cobalt sulfide mineral has been found on the property. The cobalt mineral erythrite

R.C.G. 2-10-54

occurs in fractures in and near the quartz veinlets and also as post-mine druses and crusts.

5. Three samples were taken and their locations and assay data follow:

Sample No.	Percent Co	Percent Ni	Percent Cu	Ounces/Ton Au	Ounces/Ton Ag	Location
518	0.08	0.10	0.34	Tr.	Tr.	In creek bed
519	0.05	0.02	1.30	Tr.	0.20	Face 250-ft. tunnel
520	0.08	0.08	0.22	Tr.	Tr.	Selected high-grade cobalt bloom - 250 feet tunnel.

6. The Examining Team concludes that sufficient underground and surface work has already been done to indicate that the geologic target for a drilling program is too small to warrant such a program and the possibility of locating cobalt ore reserves of economic value is slight.

7. The Field Team concurs with the recommendation by the Examining Team that the application be denied.

8. The Commodity Divisions of the Geological Survey and Bureau of Mines concur with the denial.

SIGNED

W. S. Martin, Chief
Iron and Ferro Alloys Division

JHOPKINS/foc
2-9-54
cc: Docket
Code 400
Adm. Reading File
Operating Comm.

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

FEB 1 0 1954

Memorandum

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division

Subject: Denial of application for exploration assistance in the amount of $10,000.00
Docket No. DMEA 3166 - Cobalt and Copper
Lou and Alma Bradbury
Humboldt King mine
Humboldt County, Nevada

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3. The area in the Jackson mountain range is underlain by metamorphic rocks principally hornfels that have been intruded by a monzonite stock. The rocks are cut by numerous faults in several systems, and the cobalt-copper ore bodies of the Humboldt King mine are quartz stringers and veinlets as much as 10 inches wide along the faults, but averaging 1/2 inch or less in thickness.

4. The primary sulfide minerals are chalcopyrite, pyrrhotite, and covellite. No cobalt sulfide mineral has been found on the property. The cobalt mineral erythrite

occurs in fractures in and near the quartz veinlets and also as post-mine druses and crusts.

5. Three samples were taken and their locations and assay data follow:

Sample No.	Percent Co	Percent Ni	Percent Cu	Ounces/Ton Au	Ounces/Ton AG	Location
518	0.08	0.10	0.34	Tr.	Tr.	In creek bed
519	0.05	0.02	1.30	Tr.	0.20	Face 250-ft. tunnel
520	0.08	0.08	0.22	Tr.	Tr.	Selected high-grade cobalt bloom - 250 feet tunnel.

6. The Examining Team concludes that sufficient underground and surface work has already been done to indicate that the geologic target for a drilling program is too small to warrant such a program and the possibility of locating cobalt ore reserves of economic value is slight.

7. The Field Team concurs with the recommendation by the Examining Team that the application be denied.

8. The Commodity Divisions of the Geological Survey and Bureau of Mines concur with the denial.

W S Martin

W. S. Martin, Chief
Iron and Ferro Alloys Division

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 1 1954

1012 Flood Building
870 Market Street
San Francisco 2, Calif.

January 28, 1954

WSM

Memorandum

To: George C. Selfridge, Chairman, Operating Committee, DMEA, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA-3166 - Cobalt and Copper
Lou and Alma Bradbury
Humboldt King Mine
Humboldt County, Nevada

Reference is made to your letter dated October 26, 1953, requesting a field examination of the subject property.

Attached are four copies of a report entitled "DMEA-3166, Humboldt King Mine, Humboldt County, Nevada, (Cobalt and Copper)," by Roscoe M. Smith, Geologist, U. S. Geological Survey, and Frank J. Wiebelt, Mining Engineer, U. S. Bureau of Mines, dated January 26, 1954, covering the examination of the property.

The engineer and geologist are in agreement that the application for a loan should be denied, as there is not sufficient showing of mineralization to warrant an exploration project. The writer concurs with the recommendations that they have made.

S. Ricker for H. C. Miller
Executive Officer
DMEA Field Team, Region III

Attachment

Copy to: Roscoe Smith, USGS (With copy of report)

Reviewed by
DMEA OPERATING COMMITTEE
2-5-54
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

2/10/54

DMEA-3166, Humboldt King Mine

Humboldt County, Nevada

(Cobalt and Copper)

Roscoe M. Smith, Geologist
U.S. Geological Survey

Frank J. Wiebelt, Mining Engineer
U.S. Bureau of Mines

January 26, 1954

Reviewed by
DMEA OPERATING COMMITTEE
2-5-54
(date)

EXAMINATION REPORT

Docket No.: DMEA-3166 (Cobalt and copper)

Name and address of applicant: Lou Franklin Bradbury and Alma Irene Bradbury
P. O. Box 283, Alturas, California

Name and location of property: Humboldt King Mine
Humboldt County, Nevada

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

The cobalt-copper ore bodies of the Humboldt King mine are quartz stringers and veinlets as much as 10 inches wide along faults. The width of the veinlets will average 1/2-inch or less in thickness. The primary sulfide minerals are chalcopyrite, pyrrhotite, and covellite. The cobalt mineral erythrite occurs in fractures in and near the quartz veinlets and also as post-mine druses and crusts. Cobalt occurs in two localities about 1,000 feet apart.

There is no ore in sight at the mine.

Results of samples taken by the examiners from the property indicate that the cobalt content from selected locations contain less than 0.1% cobalt.

The applicant has had very little if any mining experience and is not competent to carry out an exploration project. He has no definite drill hole sites for his proposed diamond drilling exploration project.

It appears that sufficient underground and surface work has already been done to indicate that the geologic target for a drilling program is too small to warrant such a program and the possibility of locating cobalt ore reserves of economic value are slight.

It is recommended that the exploration loan request be denied.

Roscoe Smith of the U. S. Geological Survey and Frank J. Wiebelt of the Bureau of Mines spent the afternoon of Nov. 12 and Nov. 13, 1953 on the property. They were accompanied by Lou Bradbury, one of the applicants.

NAME AND LOCATION OF PROPERTY

The Humboldt King mine, in Humboldt County, Nev., is about 91 miles by road northwesterly from Winnemucca, Nev. It is situated on the west slope of the Jackson Mountains, in a canyon south of Jackson Creek.

The property is accessible by automobile from Winnemucca, Nev., by following U. S. Highway 95 northerly 31.8 miles, State Highway No. 8A westerly 35.9 miles, Leonard Creek road southerly 7.8 miles and then continue southerly 13.1 miles to the Jackson Creek ranch at which point turn easterly along the Jackson Creek road 0.5 miles, thence southerly 0.3 miles and thence 0.8 miles easterly to an old apple orchard. From this point a road suitable only for a jeep extends easterly about half a mile to the property.

ACCESSIBILITY

The roads from Winnemucca to the mine consist of 67.7 miles of paved highway accessible throughout most of the entire year and 23 miles of unimproved dirt road which in times of heavy snow fall is inaccessible.

COMPETENCY OF APPLICANT

The examining geologist and engineer are of the opinion that the applicant has had very little if any mining experience and he is not competent to operate an exploration project. His sampling at the property consisted of selected material which is not representative of the average grade of ore on the property.

APPLICANTS PROPERTY RIGHTS

Lou Franklin Bradbury and his wife Alma Irene Bradbury, the applicants hold by location the unpatented claims known as the Humboldt King, the Humboldt King II and the Humboldt King IV. The book and page numbers of record of location notices as given by the applicant in their application follows:

Book A-4 - page 550 claim named Humboldt King
Book A-4 - page 588 claim named Humboldt King II
Book A-4 - page 603 claim named Humboldt King IV
Book 5 - page 212 claim named Humboldt King V

DESCRIPTION OF THE PROPERTY

There are no surface facilities on the property.

The main mine workings consist of two adits, one of which contains about 250 feet of drifts and crosscuts and also a small stope; the other about 150 feet of drifts and crosscuts, two small stopes and a winze. There are also four other adits, each about 10 to 15 feet in length on the property.

SAMPLING

Three samples were taken and their location and assay data follow:

Sample No.	Percent Co	Percent Ni	Percent Cu	Ounces/Ton Au	Ounces/Ton Ag	Location
518	0.08	0.10	0.34	Trace	Trace	In creek bed (area 5 feet by 30 feet)
519	0.05	0.02	1.30	Trace	0.20	Selected quartz stringers containing sulfides and source of cobalt? face of 250-foot tunnel.
520	0.08	0.08	0.22	Trace	Trace	Selected high-grade cobalt bloom - 250-foot tunnel - sample taken by Bradbury.

GEOLOGY

The western flank of the Jackson range is underlain by metamorphic rocks of probable Paleozoic age. The higher part of the range is metavolcanic rock, and the foothills (in the Humboldt King mine area) are hornfels, quartzite, and argillite which have been grouped together and called hornfels. Metamorphic rocks have been intruded by a monzonite stock having an outcrop about 100 feet in diameter. The monzonite contains very few dark minerals; it is fresh, unfractured, contains no quartz

seams and no ore minerals. The rocks are cut by faults in several systems -- one set strikes north and dips west, another set strikes northeast and dips northwest, and the third set strikes southeast and dips southwest.

In the mine area the hornfels series is in fault contact with meta-andesite along a north-striking fault. Quartz stringers and veinlets occupy all three sets of faults on both sides of the fault contact. The Humboldt King mine explored quartz veinlets near the fault contact.

ORE DEPOSITS

The cobalt-copper ore bodies of the Humboldt King mine are quartz stringers and veinlets as much as 10 inches wide along faults. The veinlets pinch and swell along the strike and are as much as 10 inches wide but will average 1/2-inch or less in thickness. The primary sulfide minerals are chalcopyrite, pyrrhotite, and covellite. No cobalt sulfide mineral has been found at this property. The cobalt mineral erythrite (cobalt bloom) occurs in fractures in and near the quartz veinlets and also as post-mine druses and crusts. Copper occurs in chalcopyrite, malachite, and chrysocolla in quartz veinlets and adjacent metamorphic rocks.

Cobalt occurs in two localities about 1,000 feet apart: The Humboldt King discovery cut and the Humboldt King mine. The Humboldt King discovery cut consists of a creek bed, the bottom of which is cleaned in two places to reveal north-striking quartz stringers containing chalcopyrite and secondary copper and cobalt minerals. These occur in two zones

about 5 feet wide and 30 feet long which may average 0.1 percent cobalt and copper. The zone is not persistent along the strike. A selected sample taken by the owner assayed about 1.0 percent cobalt. This sample may be accepted as reliable and indicative of the grade of selected material but very little more of this selected material could be found. In the Humboldt King mine a quartz veinlet about 1 inch wide strikes northwest and dips nearly vertical. The veinlet is in hornfels near an east striking contact with marble. A small shaft and intermediate level appear to have yielded no ore but the lowest level contains two small stopes each about 6 feet wide, 15 feet long, and 40 feet high. There is no ore in sight in the mine workings. Evidently most of the samples taken of the cobalt at this property were of erythrite which coats the walls of the mine workings at a post-mine efflorescence.

Elsewhere on the property, quartz veinlets as much as 10 inches wide but averaging less than 1-inch in width contain small amounts of chalcopyrite and occur in zones of bleached hornfels as much as 50 feet wide which are slightly copper-stained. Several of these zones occur south of Humboldt King mine and two have 15-foot adits driven on their outcrops. These adits are barren at the face. At the Humboldt King No. 2 discovery pit, a quartz vein which strikes northeast and dips northwest, occurs in meta-andesite. A little copperstain occurs near the veinlet. Apparently no ore was produced. The monzonite stock, occurring

south of the Humboldt King workings, shows no signs of disseminated copper or iron mineralization.

ORE RESERVES

There are no reserves of any class at the Humboldt King mine.

PAST OPERATIONS

Practically all of the mine workings were driven prior to the acquisition of the property by the applicant. The present owner has only done a small amount of surface work. There is no available data on past production and indications indicate that such production was relatively small and not profitable. The mine contains no ore reserves and past production came from very small stopes.

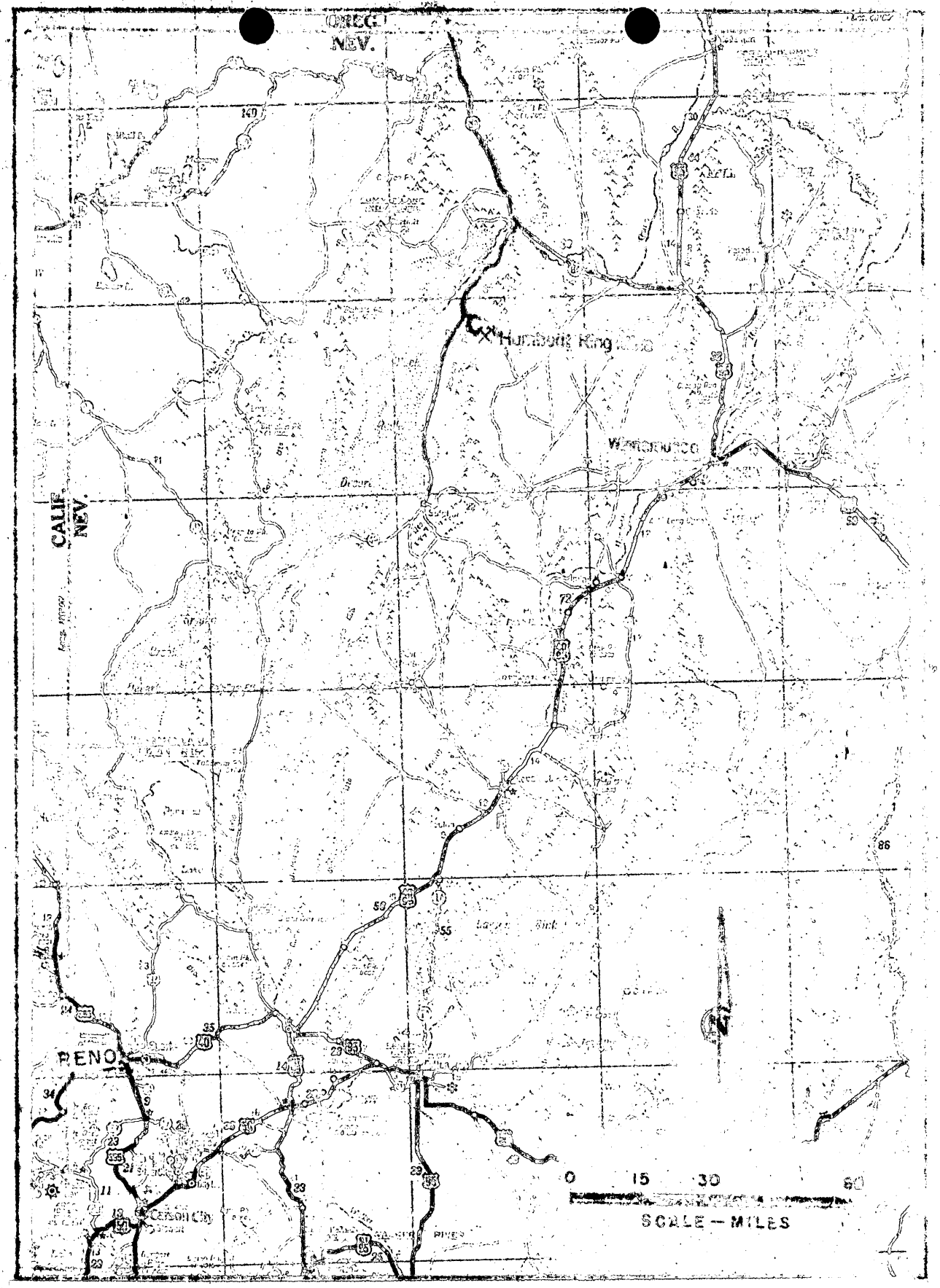
MANPOWER, SUPPLIES, ETC.

Manpower, supplies, materials and equipment are obtainable from Winnemucca, 92 miles distant and Reno, Nev., 259 miles distant. Groceries, oil and gasoline and postal service are available at Denio, Nev., 53 miles from the property. There is no electric power available at or near the mine. Water is obtainable for mine and camp use from a small creek on the property.

APPLICANTS PROPOSAL

The applicants proposal was to set up a 1,000-foot diamond drilling exploration project to develop the cobalt ore in his properties. He has no definite drill hole sites in mind. The geologic target for the proposed drilling program or any alternative program is too small for con-

sideration and it is the opinion of the examining engineer and geologist that no large tonnage of cobalt ore of economic value would be developed by a diamond drilling or any other alternative program.



Location map - Humboldt King Mine, Humboldt County, Nevada

Martin
Hopkins

DEC 22 1953

Mr. and Mrs. L. F. Bradbury
P. O. Box 283
Alturas, California

Re: Docket No. DMEA 3166 - Cobalt
and Copper
Humboldt King mine
Humboldt County, Nevada

Dear Mr. and Mrs. Bradbury:

This will acknowledge receipt of your letter of December 13, 1953, inquiring about the status of your application.

Our information is that, as of December 1, 1953, the examination of the Humboldt King mine was completed and the field report was then in course of preparation. After that report has been received here and reviewed, you will be promptly advised.

Sincerely yours,

Frank E. Johnson (for)

ACTING Administrator

WSMartin/ls
12/21/53

cc: DOCKET
FT. REG. 3
CODE 400
AIM. READ. FILE
H. W. DAVIS, USBM
PHILLIP GUILD, USGS

R.C.G. 12-22-53

Defense Minerals Administration
Washington 25, D. C.

Dec. 13, 1953.

Re: Docket No. D.M.E.A 3166
Cobalt-Copper Humboldt King
Mine.

I am writing to you in regards to my application of a loan on this property, the geologist was there on the property and made a examination, and as yet I have not received any report on the finding of his examination, and also would like to know how the loan is progressing, as it has been some time since I have heard from your office, as the geologist told me I should hear from you very soon.

Please let me hear from you soon

L. F. Bradbury
P. O. Box 289
Alturas Calif

Will send Re F.T. 12/26
F.T. report not yet rec'd.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 18 1953

L. F. Bradbury
P.O. Box 283
Alturas, Calif.

ALTURAS
DEC 14
8 30 AM
1953
CALIF.

United States Department of Interior
Defense Minerals
Exploration Administration
Washington 25, D. C.

DEFENSE MINERALS ADMINISTRATION

97022

PRODUCTION EXPANSION DIVISION

EXPLORATION LOANS

Name of Company and Address: _____

Name of Mine and Location _____

Docket No. D.M.A. _____ Date received by P.E.D. _____

Metals or Minerals involved _____

Amount of Total Project: _____

Government participation, percent and amount _____

Number of subprojects in total application _____

Type of Exploration	Feet	Cost per foot	Total cost
Preparatory & Rehabilitation			
Equipment			
Shaft sinking & winzes			
Drifts and crosscuts			
Raises			
Diamond or churn drilling			
Other			

Comments on Contract _____

_____

_____

_____

Date sent to Applicant for signature _____

Date returned to P.E.D. _____

Date sent to Legal _____

Date signed by Administrator _____

Additional remarks: _____

_____

_____

Interior—Duplicating Section, Washington, D. C.

Signed _____

FILE COPY
SURNAME:

400
Rutledge
Martin
Davis
Selfridge
Hedges

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

OCT 26 1953

Mr. H. C. Miller, Executive Officer
DMEA Field Team, Region III
1012 Flood Building
870 Market Street
San Francisco 2, California

Re: Docket No. DMEA 3166 - Cobalt & Copper
Lou and Alma Bradbury
Humboldt King mine
Humboldt County, Nevada

Dear Mr. Miller:

Reference is made to the above-docketed application for exploration assistance which is being referred to your office for a field examination of the property.

A memorandum by T. P. Thayer, Geological Survey, has been prepared and is enclosed for your information. Also enclosed are other data and a map furnished by the applicant.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (JHS)

APPROVED:

J. H. Hedges

Member, Bureau of Mines (JHS)

T. P. Thayer

Member, Geological Survey (JHS)

FARutledge:foc
10-23-53
cc: Docket
Code 400
FT. Reg. 3
Operating Comm.
Admr. Reading File
H. W. Davis, USBM
Phillip Guild, USGS

R.C.B. 10-26-53

FILE COPY
SURNAME:

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

OCT 26 1953

400
Rutledge
Martin
Davis
Hayes
Hedges
Lethridge
Johnson

Mr. & Mrs. L. F. Bradbury
P. O. Box 283
Alturas, California

Re: Docket No. DMEA 3166 - Cobalt & Copper
Lou and Alma Bradbury
Humboldt King mine
Humboldt County, Nevada

Dear Mr. and Mrs. Bradbury:

Reference is made to the above-docketed application for exploration assistance which has been reviewed by the Iron and Ferro-Alloys Division of the Defense Minerals Exploration Administration and referred to Mr. H. C. Miller, Executive Officer, DMEA Field Team, Region III, 1012 Flood Building, 870 Market Street, San Francisco 2, California, for a field examination of the property.

The Regional Office will contact you at an early date with regard to an examination of your property. Any assistance that you can render the members of the field team during the examination will be appreciated.

Sincerely yours,

C. O. Mittendorf (fw)

Administrator

FARutledge:foc
10-23-53
cc: Docket
Code 400
FT. Reg. 3
Operating Comm.
Admr. Reading File
H. W. Davis, USBM
Phillip Guild, USGS

R.C.G.
10-26-53

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 5 1953

DMEA-3166

Mr. W. S. Martin
Iron and Ferro- Alloys Division

Re: Docket No. DMEA - Cobalt- Copper
Humboldt King mine

Dear Mr. Martin:

Sep. 29, 1953.

Received your letter of Sep.17th in regards to a application for a loan to develope our cobalt and copper mine,and as a prospector I will try to answer your question as near as possible.

WSM

No1. I am sending you a copy of the assays to substantiate the accurrence of cobalt and copper.

No2. The mining claims are recorded in Winnemucca, Humboldt County and are in the state of Nevada.

No3. The location of the property is about 90 miles northwest of Winnemucca, Nev. and on the west slope of the Jackson MOuntains in a canyon below Jackson Creek,at present I do not know the section or range but will get it for later referance.

No4. Inclosed you will find a map of the workings and claims.

The location of where the samples were taken will be stated on each assay.

The mineralization that I am not to sure it is of a green formation and there is a large lime deposit or belt as you may call it, it seems to be in a contact formation what it is I will nottry to name them.

As far as target exploration program I think that was in the applaction and that was to core drill to develope the cobalt ore.

I have just added one more claim to the Humboldt group knowen as the Humboldt King No5. and is recorded in Winnemucca Nev. and recorded in Book 5. and page 212.

I have answered your questions to the best of my ability and do hope that they are O. K.

Sincerely yours

Mr. and Mrs. Bradbury
P. o. Box 283
Alturas California.

dmea 3166

That attached copies, numbered one to seven, are true copies of original documents.

F. F. Bradburg

Subscribed and sworn to
before me this 28th day
of September, 1953.

Notary Public in and for
County of Modoc, State of
California.

Hand Sample Serial 30129

Assay Report
UNION ASSAY OFFICE, Inc.
J. V. Sadler, President
Salt Lake City 10, Utah

Mine: James R. Wilson

Results per ton of 2000 pounds

Feb. 18, 1953

NO.	GOLD Ozs. per Ton	SILVER Ozs. per Ton	COPPER Per Cent	CO Per Cent
24805	Trace	0.3	0.30	0.60

J. V. Sadler

Open copper and cobalt pit on south end of Humboldt King claim.

NEVADA MINING ANALYTICAL LABORATORY

UNIVERSITY OF NEVADA

Reno, Nevada

NO. 1048

Mr. L. F. Bradbury
Box 283
Alturas, California

Date: September 4, 1953

Report on sample or specimen received from you on 8-28-53 is as follows:

Number	Mineral or Rock	Ounces Per Ton Gold	Ounces Per Ton Silver	
1	Metamorphosed rock with pyrite and chalcopyrite.			Copper 1.4%
2	Same as #1			Copper 1.2%

Grab sample 50 feet inside of tunnel, near face of tunnel.

/s/ By Claude W. Hammond
Analyst.

NEVADA MINING ANALYTICAL LABORATORY

UNIVERSITY OF NEVADA

Reno, Nevada

NO. 881

Mr. L. F. Bradbury
Box 283
Alturas, California

Date: August 30, 1952

Report on sample or specimen received from you on August 27, 1952 is as follows:

Number	Mineral or Rock	Ounces Per Ton Gold	Ounces Per Ton Silver	
	Chalcopyrite, quartz, malachite.	None	None	Copper - 13.8% Nickel - None Cobalt - None

Open copper and cobalt pit on south end of Humboldt King claim.

/s/ By Claude W. Hammond
Analyst.

NEVADA MINING ANALYTICAL LABORATORY

UNIVERSITY OF NEVADA

Reno, Nevada

NO. 517

Mr. L. F. Bradbury
Box 283
Alturas, California

Date: June 10, 1952

Report on sample or specimen received from you on June 5, 1952 is as follows:

Number	Mineral or Rock	Ounces Per Ton Gold	Ounces Per Ton Silver	
1.	Malachite, calcite, pyrite, quartz, erythrite, limonite, chalcopyrite.			Copper - 4.5% Cobalt - 0.30% Nickel - 0.28%
2.	Chyrsocolla, malachite, chalcopyrite, pyrite, quartz, limonite, calcite, erythrite.			Cobalt - 0.18% Copper - 0.1% Nichel - Trace
3.	Malachite, chrysocolla, chalcopyrite, pyrite, erythrite, limonite, quartz.	Trace	Trace	Copper - 1.3% Cobalt - 0.29% Nickel - trace

General over all average sample from open pit on south end of Humboldt King claim.

/s/ By Claude W. Hammond
Analyst.

NEVADA MINERAL LABORATORIES
P. O. Box 387
Reno, Nevada

ASSAY CERTIFICATE

Mr. L. F. Bradbury 5-20-52

We have assayed your samples and find contains: (per ton of 2000 lbs)

NO.	COBALT
1	1.2%

Open copper and cobalt pit on south end of Humboldt King claim.

/s/ J. Benj. Parker

NEVADA MINING ANALYTICAL LABORATORY

UNIVERSITY OF NEVADA

Reno, Nevada

NO. 314

Mr. L. F. Bradbury
Box 283
Alturas, California

Date: April 28, 1952

Report on sample or specimen received from you on April 23, 1952 is as follows:

Number	Mineral or Rock	Ounces Per Ton Gold	Ounces Per Ton Silver
2	Quartz, epidote, erythrite, chalcopyrite, limonite, chrysocolla, pyrite, heterogenite.		

Cobalt - 0.7%
Nickel - Trace

Open copper and cobalt pit on south end of Humboldt King claim.

/s/ By W. S. Palmer
Analyst.

NEVADA MINING ANALYTICAL LABORATORY

UNIVERSITY OF NEVADA

Reno, Nevada

No. 736

Mr. L. P. Bradbury
Box 283
Alturas, California

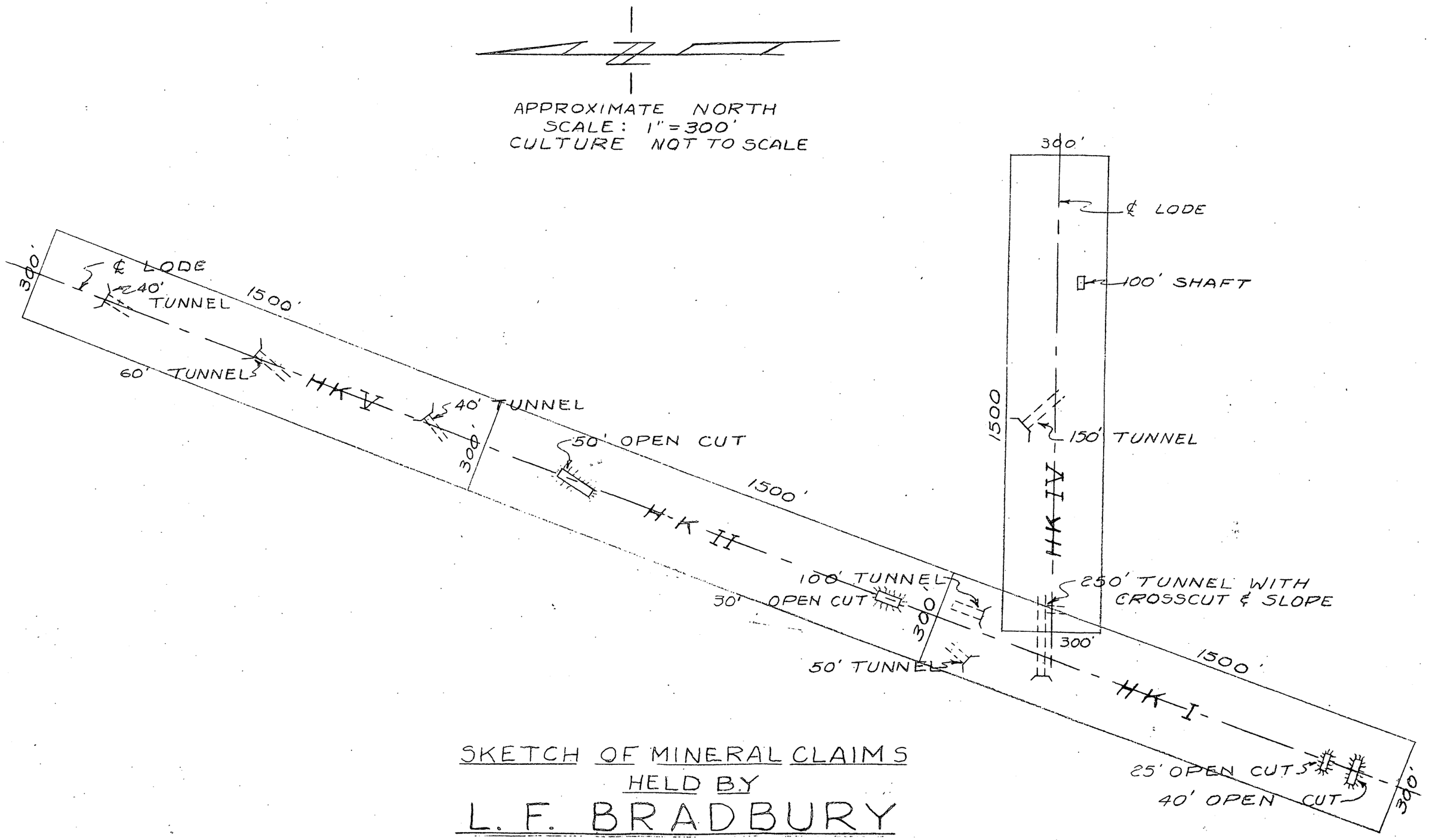
Date: August 4, 1952

Report on sample or specimen received from you on July 25, 1952 is as follows:

Number	Mineral or Rock	Ounces Per Ton Gold	Ounces Per Ton Silver	
1.	Calcite, chlorite, pyrite, erythrite.			Cobalt - 0.36% Nickel - Trace Copper - Trace
2.	Calcite, chlorite, pyrite, erythrite.			Cobalt - 0.52% Nickel - Trace Copper - Trace
3.	Calcite, chlorite, pyrite, erythrite.	None	None	Cobalt - 0.16% Nickel - Trace Copper - Trace
4.	Calcite, iron stained limestone, pyrite, erthrite.	None	None	Cobalt - Trace Nickel - Trace Copper - Trace
5.	Calcite, chlorite, pyrite.	None	None	Cobalt - Trace Nickel - Trace Copper - Trace

Inside of tunnel of Humboldt King, near stope and taken from the hangen wall.

/s/ By Claude W. Hammond
Analyst.



SKETCH OF MINERAL CLAIMS
HELD BY
L. F. BRADBURY

ALTURAS CALIFORNIA
SEPT S104 1953

CLAIM H-K III
NOT DEVELOPED

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

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 13 1953

October 13, 1953

WSM

Memorandum

To: W. S. Martin, DMEA

From: T. P. Thayer, USGS

Subject: DMEA-3166, Copper, Cobalt, Nickel
Lou and Alma Bradbury
Box 283
Alturas, California

The applicant proposes 1,000 feet of diamond drilling at undesignated locations on a vein of undetermined width in Jackson Canyon on the west slope of the Jackson Mountains in Humboldt County, Nevada. Assays show up to about 14 percent copper, and small amounts of cobalt. The highest assay for cobalt reported by the University of Nevada showed 0.7 percent, the average about 0.3 percent on material showing visible erythrite. A very little nickel was also reported.

The failure to present more pertinent information does not speak well for the competence of the applicant, and the assay data are not encouraging. Small nickel occurrences are known in northcentral Nevada, so the reported deposit is not surprising.

It seems fruitless to seek more information from the applicant. I would suggest that the docket be referred to the field for examination when convenient.

T. P. Thayer

T. P. Thayer

Copy retained 400

FILE COPY
400 SURNAME:

Rutledge
Martin

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

SEP 17 1953

Mr. & Mrs. L. F. Bradbury
P. O. Box 283
Alturas, California

Re: Docket No. DMEA 3166 - Cobalt-Copper
Humboldt King mine

Dear Mr. & Mrs. Bradbury:

Your application for exploration assistance in exploring for cobalt and copper on the referenced property has been reviewed by the Iron and Ferro-Alloys Division, Defense Minerals Exploration Administration.

The information submitted with your application is insufficient to justify a field examination by the Government. No data were submitted to substantiate the occurrence of the metals for which exploration assistance was requested. While the claims on which the exploration was to be conducted were identified as the Humboldt King, Humboldt King II, and Humboldt King IV, their location and the location of their recording were not given. In addition, no detailed plan of exploration and no map showing either the local geology or the target of the proposed exploration were included with your application.

Before your application can be considered further, you should furnish us with the following data:

1. Analyses of samples to substantiate the occurrence of cobalt and copper.
2. Location of Recording office
3. Location of property
4. Map showing present workings, claims, location of samples, mineralization, proposed exploration, and target of the exploration program

We will, therefore, hold your application in abeyance until the requested data have been received.

Sincerely yours,

SIGNED

W. S. Martin, Chief
Iron and Ferro-Alloys Division

FARutledge:foc 9-17-53
cc: Docket
Code 400
Adm. Read. File

R.C.G.
9-17-53

Mr. & Mrs L. Bradbury
Post Office Box 283
Alturas, California

September 14, 1953
Subject DMEA-3166
Re: Exploration Assistance

Dear Mr. & Mrs. Bradbury;

The receipt of your application dated September 8, 1953, for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-3166 and referred to the Iron & Ferro-Alloys Division.

Kindly refer to DMEA-3166 in any future correspondence relating to your application.

Sincerely yours,

Robert E. Adams
Chief, Operation's Control
and Statistics Division

UNITED STATES DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration.

1. Lou Franklin Bradbury and Alma Irene Bradbury, P. O. Box 283, Alturas, California.

(d) Husband and wife.

3. Applicant's property rights:

(a) Three mining claims; each 600 feet wide by 1500 feet long. The cobalt is associated with copper ore which analyzes as high as 14 per cent cu.

(b) The book and page numbers for each unpatented claim are:

Book A-4 ... Page 550	Mine named Humboldt King
Book A-4 ... Page 588	Mine named Humboldt King II
Book A-4 ... Page 603	Mine named Humboldt King IV

(c) Owners - Lou Franklin Bradbury and his wife Alma Irene Bradbury

4. No mining now being done. Mine working consists of one tunnel approximately 250 feet long; including one stope, one cross cut; and an extension drift. Also a tunnel approximately 150 feet long including two stopes and a winze. There are about four other short tunnels; also I have an open pit.

My interest at this time is to develop the cobalt ore in these properties. I also want to core drill the property.

It is possible to drive to within three hundred feet of the property.

(b) New discovery assays up to 1.2 per cent cobalt.

(c) Seems to be in vein form showing very strong cobalt bloom. My reason for wanting to explore is to ascertain probable value and extent of cobalt deposit. Have no map or other information to include with this form.

(d) Good access road to within 300 feet of property; thirty miles to shipping; supplies -- 90 miles.

(e) Manpower, supplies and equipment must be brought in; water on property. Have to use gas power.

5. Wish to explore cobalt mineral.

(b) 1000 feet drilling. Do not have a map. Consists of veins and other deposits.
(c) Work to start within 30 days and to be completed within 3 months.
(d) Supervision by a geologist.

6. Estimate of costs:

1000 feet drilling at $7.00 per foot	$. 7000.00
Salary 3 months @ $500 per month....	1500.00
Construction of small core and sludge shelter	500.00
General construction work and supplies	1000.00
total	$ 10,000.00

(a) Will contract with drillers, costing approximately $7.00 per foot

(b) Will engage the service of an experienced supervisor who is familiar with diamond drilling, logging, cores, and sludge sampling.

(c) Included under driller's cost of $7 per foot.

(d) Covered under driller's cost of $7 per foot.

(e) None

(f) $500 to build small core and sludge shelter.

(g) None

(h) None

7. Yes.

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Form Approved.
Bureau of Budget Bureau No. 42-R1035.2.

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. DMEC-3166
Metal or Mineral
Date Received 9-14-53
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:

(*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

(*b*) State any mine name by which the property is known.

(*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.

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 .....

(*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 ....30..... 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)?

(*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.

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 ....9-8-...., 195.3.

Lon Franklin Bradbury
(Applicant)

By Alma Irene Bradbury

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