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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

December 10, 1952

Memorandum

To: E. W. Ellis

From: C. H. Johnson, Chief Base Metals Branch

Subject: DMEA-2554 (Copper), L. W. Whitney, Arizona claim, Elko County, Nevada

I have reviewed the Field Team report on this application, which recommends disapproval of the proposed long adit, and recommends instead that two old shafts be reopened and a small footage of drifting, raising, crosscutting be done in each.

The recommendation is well supported by sampling of accessible showings of copper ore, and I believe the estimated costs are as good as can be had for such an undertaking.

It would be advisable, in my opinion, to provide as part of the description of work to be done that all openings made accessible by the reopening of the shaft shall be mapped and sampled, and the new exploration workings likewise.

Cost of timber for headframe, guides, slides, etc., evidently is not included in estimate. Perhaps a small sum should be added for this.

C. H. Johnson
C. H. Johnson

Copy to - A. R. Kinkel, Jr., USGS
Minerals Division
Base Metals Branch
Mr. Johnson
Files

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

December 10, 1952

Memorandum

To: L. W. Ellis

From: C. H. Johnson, Chief Base Metals Branch

Subject: [illegible]A-2551 (Copper), L. [illegible] Whitney, Arizona claim, Elko County, Nevada

I have reviewed the Field Team report on this application, which recommends disapproval of the proposed long adit, and recommends instead that the old shafts be reopened and a small footage of drifting, raising, crosscutting be done in each.

The recommendation is well supported by sampling of accessible showings of copper ore, and I believe the estimated costs are as good as can be had for such an undertaking.

It would be advisable, in my opinion, to provide as part of the description of work to be done that all openings made accessible by the reopening of the shaft shall be capped and sealed, and the new exploration workings bulkhead.

Cost of labor for headframe, guides, slides, etc., evidently is not included in estimate. Perhaps a small sum should be added for this.

C. H. Johnson

CHJohnson:ks

Copy to - A. H. Winkel, Jr., [illegible]
Minerals Division
Base Metals Branch
Mr. Johnson
Files

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

December 10, 1952

Memorandum

To: L. W. Ellis

From: C. H. Johnson, Chief Base Metals Branch

Subject: [illegible]-2551 (Copper), L. W. Whitney, [illegible] claim, Elko County, Nevada

I have reviewed the Field Team report on this application, which recommends disapproval of the proposed long adit, and recommends instead that the old shaft be reopened and a small footage of drifting, raising, crosscutting be done in each.

The recommendation is well supported by sampling of accessible showings of copper ore, and I believe the estimated costs are as good as can be had for such an undertaking.

It would be advisable, in my opinion, to provide as part of the description of work to be done that all openings made accessible by the reopening of the shaft shall be mapped and sampled, and the new exploration workings likewise.

Cost of timber for headframe, guides, slides, etc., evidently is not included in estimate. Perhaps a small sum should be added for this.

C. H. Johnson

CHJohnson:ks

Copy to - L. T. Kinkel, Jr., [illegible]
Minerals Division
Base Metals Branch
Mr. Johnson
Files

11/10/5 rgla

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

Executive Officer
DMEA Field Team
Region III

1012 Flood Bldg.
870 Market St.
San Francisco 2, Calif.

Reviewed by
DMEA OPERATING COMMITTEE
11-7-52
(date)

October 29, 1952

Memorandum

To: Frank E. Johnson, Operating Committee, DMEA, Washington, D.C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-2554 (Copper) L. W. Whitney
Arizona Mining Claims, Porter Mining District,
Elko County, Nevada

Reference is to your subject letter dated June 16, requesting a field examination of the applicant's property in Elko County, Nevada.

Attached are four copies of a report entitled "DMEA-2554 (Copper), Arizona Mining Claims, Elko County, Nevada," by Glenn G. Gentry, Mining Engineer, Bureau of Mines, and D. C. Laub and R.M.Smith, Geologists, U.S.Geological Survey, dated October 24, 1952.

The applicant had requested a loan of $49,315.40 to drive an adit 1,500 feet in length on the "Checkmate vein," construct shop, bunkhouse and cookhouse, and to provide necessary machinery and supplies for this work.

According to the examining engineer and geologists, this loan should be denied; however, the Field Team does consider that the copper ore in sight in the Arizona and Hank shafts, together with the copper content of the ore samples and the possibility of finding additional ore, are sufficient to warrant an exploration loan in the amount of $13,875.48. The work under this loan would comprise cleaning out the Arizona and Hank shafts and then doing some drifting, crosscutting, and raising to determine the potential value of the property.

Mr. A. C. Johnson concurs with the examiners' proposals.

It is noted in your letter of June 16 that "If the report of the Field Team is favorable, please request the applicant to furnish you seven copies each of the Owner's Consent to Lien for the following claims: Bessie H. Wootten for the Arizona Claim; T. J. Canavon for the Paddy Claim; B. A. Hanks for the Morenci Claim."

In transmitting the report of the examining engineer and geologists to me, Mr. A. C. Johnson did not mention whether or not the applicant had been requested to furnish copies of Owner's Consent to Lien for the claims involved.

His attention is being called to your request by means of a carbon copy of this memorandum, and I am certain he will take immediate steps to obtain the Owner's Consent to Lien. When the seven copies of Form MF-203 are received for the three claims, they will be forwarded to you.

The subject docket is returned herewith.

H. C. MILLER

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

Attachments

Copy to: E. H. Bailey, USGS

A. C. Johnson, Reno

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
[illegible]

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

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA-2554 (copper), Arizona Mining Claims

Elko County, Nevada

Glenn G. Gentry, Mining Engineer
U. S. Bureau of Mines

D. C. Laub and R. M. Smith, Geologists
U. S. Geological Survey

October 24, 1952

Reviewed by
DMEA OPERATING COMMITTEE
11-7-52
(date)

Docket No.: DMEA-2554 (copper)

Name and address of applicant: L. W. Whitney, Meadows, Idaho

Name and location of property: Arizona Mining Claims
Porter Mining District
Elko County, Nevada

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

Mr. L. W. Whitney, Meadows, Idaho, applied on April 20, 1952 to the Defense Minerals Exploration Administration for government assistance in a $49,315.40 program to explore for the downward continuation of copper ore mined from the Arizona and Morenci claims, Porter Mining District, Elko County, Nev.

A field examination was requested by the Field Team, Region III to determine whether the ore reserves are sufficient to justify the exploratory work proposed by the applicant. The examination was made by an engineer[1] of the Bureau of Mines and a geologist[2] of the U. S. Geological Survey on July 21 to 23, 1952. A supplemental examination was made September 1 to inspect new trenches made across the "Checkmate vein" since July 23, and to examine the Arizona shaft which was opened since July 23.

The ore bodies are veins which follow west striking faults in limestone and hornfels of Paleozoic age. The ore is composed of chrysocolla, malachite, and chalcopyrite in a gangue of iron oxide, calcite and jasperoid. The ore mined averaged about 8 percent copper. Two veins have been mined; the Arizona vein 2.5 to 12 feet wide which strikes west and dips 80° south parallel to the bedding planes, and the Hanks vein, which strikes westerly and dips 60° north. Between

1/ Glenn G. Gentry.
2/ Roscoe M. Smith and Don C. Laub.

these veins a series of shallow pits, exposing low grade copper ore in discontinuous shoots in several bedding planes, has been called the "Checkmate vein" by the applicant, but the existence of a continuous vein is not demonstrated.

Shafts on the Arizona and Hanks veins are accessible to shallow depths.

There are no measured or indicated ore reserves, but a few hundred tons of low grade copper ore is inferred to be in the Arizona vein and 5,000 tons of low grade copper ore is inferred to be in the Hanks vein.

The applicant proposed to explore the "Checkmate vein" by extending the Whitney adit 1500 feet west along the strike of the vein. Near the west end of the completed adit, he expected to encounter the junction of the Arizona, Hanks, and "Checkmate vein" at a depth of 350 feet below the surface. The existence of the "Checkmate vein" is not demonstrated and the Hanks and Arizona veins probably do not intersect near the altitude of the proposed adit. The work proposed by the applicant is not warranted.

Some exploratory work is warranted, however, to test the lateral extent and downward continuation of the ore bodies that were mined from the Arizona and Hanks shafts. A program consisting of two phases is suggested:

1. Clean out and sample the Arizona shaft, drift 50 feet east and 50 feet west on the vein, and crosscut 50 feet.

2. Clean out and sample the Hanks (No. 3) shaft, drift east and west from the bottom of the shaft a total of 150 feet, and raise 25 feet on the best showing.

Each phase should be contingent upon finding ore during the preceding phase.

This program could be completed in about five months and is estimated to cost $13,875.48

It is recommended that the Government enter into a contract with the applicant to do the proposed work. The Government's share of the cost would be $6,937.74.

DMEA EXAMINATION

The Arizona claims were examined, mapped and sampled by geologists of the U. S. Geological Survey and an engineer of the U. S. Bureau of Mines, Region III on July 21 to 23, 1952. The field team was accompanied by Mr. L. W. Whitney who guided them over the property. Mr. Blaine Hanks, owner of the Arizona claims, was present for one conference at the Whitney camp, but was unable to take any active part during the examination due to illness and previous injury to his legs.

NAME AND LOCATION OF PROPERTY

The property is designated as the Arizona Mining Claims.

a. The claims are located approximately 20 miles southeast of Contact, Nevada.

b. Elko County, Nev.

c. Porter Mining District, Sec. 22, T. 44 N., R. 64 E.

ROAD CONDITIONS

From Contact, Nev., the first 9.3 miles of road is over highway No. 93 which is an all weather road. The remaining distance of approximately 11 miles is over unimproved desert road. About 4 miles of this road is through a narrow canyon. This portion of the road has heavy

grades and the expense of keeping it open during the winter months would be high and require heavy snow removal equipment. The roadway leading from the camp to the mine workings has heavy grades and has only recently been made with a bulldozer. During the inspection it was necessary to use a 4-wheel drive vehicle to reach the mine.

COMPETENCY OF APPLICANT

The applicant has had a very limited experience in mining. During most of his life he has been engaged in farming and ranching in Idaho and in recent years he has optioned and leased several prospects and mines in Oregon, Idaho and Nevada, with the idea of doing a small amount of development work and then leasing or selling to some operating mining company.

Mr. Blaine Hanks, who Mr. Whitney expects to employ to supervise the work on the Arizona claims, states that he has had many years of experience in mining exploration in various western states. However, Mr. Hanks is probably about 73 years of age and is presently unable to take any active part in actual mining operations.

Any program of mining development should be placed under the supervision of a competent mining engineer.

APPLICANT'S PROPERTY RIGHTS

The Arizona, Morenci and Paddy claims are owned by Blaine Hanks who has granted a 5-year lease and option to L. W. Whitney. This option and lease agreement was not available for study.

The Arizona claim was located on June 26, 1881 and is patented. The amended mineral survey on this claims is No. 1615, Lot No. 37.

The Morenci and Paddy claims are unsurveyed and have been held by right of location by Blaine Hanks.

Additional mining claims, adjacent to the Arizona and Morenci, have been recently located by Whitney. These new claims are listed as follows: Granite Annex, Saddle, Gulch and Mill Site, which have not been surveyed or recorded.

DESCRIPTION OF PROPERTY

No buildings are located on the property or in the immediate area. The only surface facilities consist of roadways leading to the Arizona, Hanks and Paddy shafts. The road to the adit of the proposed "Checkmate vein" has not been constructed.

There has been very little work done on the Arizona, Morenci and Paddy claims during the past 40 years.

The Arizona shaft is caved at 13 feet down from the collar and it was impossible to make any examination below that point.

The Hanks shaft on the Morenci claim is caved at 20 feet down from the collar and it was impossible to make any examination below this point.

Other openings on these two claims are partially caved to the extent that complete examination was impossible.

No prospecting or development work has been done on the new claims located by Whitney.

No mining equipment or facilities for the development of the property remain at the property.

GEOLOGY

The rocks in the area are limestone, shaly limestone, shale, and quartzite of Paleozoic age[3] which have been intruded by a granodiorite stock, and by sills and dikes ranging in composition from granodiorite to alaskite. In the contact zone - which is about 1,000 feet wide - the limestone and shaly limestone have been metamorphosed.

The sedimentary rocks have been domed around the stock; in the mine area, which is on the south side of the stock, they strike about N. 70° E. and dip steeply south or are overturned.

The limestone is composed of light gray, massive beds interbedded with dark gray and blue, thin-bedded units, and in this area has a total thickness of about 1,000 feet. Near the contact the limestone is metamorphosed to marble and the shale is metamorphosed to hornfels.

Successively overlying the limestone, and cropping out south of the mine area, are beds of shale, limestone, platy shale, shaly limestone, and quartzite.

The sedimentary rocks are cut by faults which parallel the bedding; one other fault, along the Hanks vein, strikes northwest and may dip steeply northeast. The copper ore bodies are associated with both sets of faults.

ORE DEPOSITS

The ore bodies are narrow veins in the thin-bedded limestone and hornfels and are commonly parallel to the bedding. One vein, the Hanks, (fig. 2) dips steeply north and cuts the limestone beds where it is exposed in the upper part of the No. 3 shaft.

3/ Schrader, F. C., 1935, The Contact Mining District, Nevada: U. S. Geol. Survey Bull. 847-A, p.3.

The ore minerals are chrysocolla, malachite, and chalcopyrite in a gangue of iron oxide, calcite, and - in the Hanks vein - jaspereid. Locally as much as one-half of the copper is in the chalcopyrite.

The ore bodies that have been mined ranged from a few inches to 12 feet in width, extended about 15 feet along the strike and were mined down dip to a depth reported to be 120 feet in the Arizona shaft, and 80 feet in the No. 3 (Hanks) shaft.

About 200 tons of sorted ore was shipped and is reported to average 19 percent copper. The owner estimates that the mine-run ore from the Arizona shaft contained 8 percent copper.

Several veins occur on the property: The Arizona, the Hanks, the "Checkmate", the War Eagle, the Contact, and several unnamed veins. Only the first three are included in the proposed exploration.

The Arizona vein (fig. 2) is in hornfels and marble along the footwall of a granitic sill. It is 3.5 feet wide near the top of the shaft and is reported to be as much as 12 feet wide at greater depths; on the No. 1 and No. 2 levels (fig. 3), it is about 10 feet wide, strikes N. 80° E. and dips 65° south parallel to the bedding. B. A. Hanks recalls that the ore in the bottom of the shaft is 8 to 10 inches wide, and that the vein is wider where it is steeper. Two samples (BM-307 and BM-341) gave an average grade of 3.5 percent copper.

The Hanks vein (fig. 2) is in hornfels on the north side of an east-striking jaspereid breccia zone about 250 feet long and as much as 8 feet wide. The dip of the jaspereid is not apparent but the No. 3 shaft inclines 60° north, and No. 4 shaft is nearly vertical. Ore,

reported to average 8 percent copper, was mined to a depth of about 80 feet from these shafts. The ore mined was as much as 8 feet wide and extended along the strike about 10 feet.

The dips of the exposed sections of the Arizona and Hanks veins project to a possible intersection at a depth of 850 feet.

There is insufficient evidence to substantiate the existence of the "Checkmate vein". The applicant stated that the "Checkmate vein" is exposed by five shallow pits (now caved), one caved adit, and by iron oxide float, for a distance of 800 feet along the strike. These workings are shown on figure 2. Copper minerals in place are exposed in two cuts only (near samples BM-342 and BM-306) where a little chrysocolla is exposed in fractures and along bedding planes in white hornfels. The exposures are from 1/2 to 2 feet wide and extend 5 feet along the strike of the beds. Broken rock on the dumps of the other workings contain chrysocolla, malachite, and iron oxide. A 50-foot adit, 250 feet southwest of the portal of the Whitney adit, reveals oxidized copper minerals in fractures in a zone 6 inches to 5 feet wide which extends about 30 feet along the strike of the beds. The applicant stated that this adit is not on the "Checkmate vein". All of the copper occurrences seen along the "Checkmate vein" are parallel to the bedding, most of the pits are sunk on different beds, and no faults or veins can be seen cutting across the beds from one occurrence to another. The iron oxide, associated with these copper showings, is yellow or light brown; it is not the dark brown oxide characteristic of leached chalcopyrite.

The War Eagle and Contact veins are outside of the area of proposed exploration.

SAMPLING

Sample No.	Width/Ft.	% Cu	Ounces/ton Au	Ounces/ton Ag	Description
BM-305	Grab	2.30	0.015	2.50	Grab sample from dump at collar of Paddy shaft. Possibly 150 tons in dump. Dump has probably been sorted many years ago.
BM-306	5.5	1.20	0.01	0.30	Copper stained limestone in shallow pit. Reported as being on the "Checkmate vein".
BM-307	3.5	4.26	Trace	0.20	West side of Arizona shaft at 10 feet below the collar. Shaft caved below this point.
BM-308	Dump	2.40	Trace	0.20	Sample of dump at collar of the Arizona shaft. Possibly 200 tons in dump. The dump is reported to be rejects from ore sorted and shipped in early days.
BM-309	6.0	2.49	Trace	0.25	Hanks shaft. Taken from both sides of shaft at 14 feet below collar. Shaft caved below this point.
BM-310	8.0	9.89	Trace	0.25	Shaft No. 4 on Morenci claim. Taken at 20 feet below collar. Unable to descend further in shaft.
BM-311	Chip	2.57	Trace	0.20	Chip sample 8 feet in width by 115 feet in length over surface exposures and gossan north and south of the Hanks No. 3 shaft. Considered to be on the Hanks vein.
BM-341	7.5	3.41	Trace	Trace	Channel sample. Arizona shaft 43 feet down incline at 15 feet drift.
BM-342	2.1	1.45	0.01	1.80	Surface exposure of limestone in bottom of new open cut 330 feet N. 70° E, 100 feet above Whitney adit.

ORE RESERVES

There are no measured or indicated ore reserves on the Arizona property. A few hundred tons of low grade copper ore may be inferred to be in the Arizona vein fringing the small ore shoot which was mined. In addition, 5,000 tons of low grade copper ore is inferred to be in the Hanks vein in the block 200 feet long, 6 feet wide and extending 100 feet from the surface down the dip of the vein. In making the calculation, it is assumed that one half of the volume of the block will be ore of minable grade, and that 12 cubic feet of ore weighs one ton.

PAST OPERATIONS

The Arizona and Hanks claims were located in the early Seventies. Prospecting and intermittent development continued until sometime in 1916. During this period, Hanks reports that he and others shipped three to four cars of ore having a reported content of 19 percent copper. The mined ore was hand sorted as only the higher grade ores could be shipped at a profit during those years.

MANPOWER, SUPPLIES, ETC.

The nearest source for experienced miners would probably be at Elko, Nevada. However, it might be necessary to attempt to recruit men from Salt Lake City, Utah and/or Boise, Idaho. There is apparently no surplus of mining labor in the area adjacent to the mine.

The greater part of the usual mining supplies and materials can be obtained from Twin Falls, Idaho, approximately 80 miles north of the mine.

Mining machinery could be obtained from either Salt Lake City, Utah and/or Boise, Idaho.

Sufficient water for mining purposes is available from a small creek situated approximately 1.5 miles north of the mine. It would be necessary to haul the water from the creek to the mine by means of barrels or tank truck.

There is no transmitted electric power available in the area. All machinery would therefore have to be powered by either Diesel or gasoline engines.

The current wage scale in the area is about $13.00 per day for miners but due to the isolated district of the mine, it is probable that these wages would not attract competent workmen.

HOUSING

No facilities for housing men exist on the property. Workmen employed until such facilities were provided would probably live in Contact, Nev., and drive back and forth to the mine.

APPLICANT'S PROPOSAL

The applicant has proposed to drive an adit 1,500 feet in length on the "Checkmate vein", construct shop, bunkhouse and cookhouse and to provide necessary machinery and supplies, all at a cost of $49,315.40.

The applicant has advised the Field Team that he is financially able to pay for his share of the project, which would amount to $24,657.70.

There is no surface evidence to establish the existence of the "Checkmate vein". Therefore, this proposal of the applicant is not justified and should be denied.

The Field Team considers that the copper ore in sight in the Arizona and Hanks shaft, together with the copper content of the ores sampled and the possibility of finding additional ore, are sufficient to recommend a moderate exploration program in the amount of $13,875.48 with Government participation of 50%, or $6,937.74.

The suggested exploration program consists of two phases:

Arizona shaft:

Phase I - Erect new headframe
Install hoist, cable and bucket
Install new timbers at the collar of the shaft
Clean out shaft
Install bucket guides
Install ladders in shaft
Drift 50 feet east from the bottom of the shaft
Drift 50 feet west from the bottom of the shaft
Crosscut 50 feet from the west drift

Hanks shaft:

Phase II Erect new headframe
Move hoist, cable and bucket from Arizona shaft to Hanks shaft
Install new timbers at the collar of the shaft
Clean out shaft
Install bucket guides
Install ladders in shaft
Drift 100 feet east from the bottom of the shaft
Drift 50 feet west from the bottom of the shaft
Raise 25 feet on the best showings

Phase I and II - Total:	Drifting	250	feet
	Crosscuts . . .	50	"
	Raise	25	"
		325	"

Arizona shaft: Phase I

Install headframe	3	days
Set up hoist	2	"
Timber at collar	3	"
Construct ladders	1	"
Install ladders	2	"
Install slide timbers	2	"
Install air & water lines in shaft	2	"
	15	"

Preparatory work . . . . . 15 days

1 engineer-supt. @ $500.00/month
2 miners @ 15.00/day, each
1 hoistman @ 15.00/day
1 laborer @ 14.00/day

Shaft: Scale down loose rock in shaft and clean out shaft . . . . . 2 days

150 feet of drifts and crosscut @ 4 feet/day 38 "

Total time . . . . . 55 days

Hanks shaft: Phase II

Install headframe	3 days
Move hoist from Arizona shaft	1 "
Timber at collar of shaft	3 "
Construct ladders	1 "
Install ladders	2 "
Install slide timbers	2 "
Install air and water lines in shaft . . .	2 "
Move compressor from Arizona shaft to Hanks shaft	½ "
	14½ "

Preparatory work . . . . . 14½ days

2 miners @ $15.00/day, each
1 laborer @ 14.00/day
1 hoistman @ 15.00/day

Clean out shaft . . . . . 10 days

Drift 150 feet and raise 25 feet @ 4 feet per day . . . . . 44 days

Total time . . . . . 69 days

Allowable costs of project:

a. Independent contracts: None

b. Labor - supervision:

1 mining engineer-supt. @ $500.00 per month - 4½ mo.		$2,250.00
2 miners @ $15.00/day, each, for 124 days		3,720.00
1 hoistman @ $15.00/day	" 124 "	1,860.00
1 laborer @ $14.00/day	" 124 "	1,736.00
		$9,566.00
Add 14% to cover insurance		1,339.24
		$10,905.24

Total allowable costs:

Labor and supervision	$10,905.24	
Operating materials and supplies	1,675.34	
Equipment rental	670.00	
Equipment furnished by applicant	624.90	
	$13,875.48	= $42.695/ft.
Government participation 50%, or	6,937.74	

Total allowable time . . . . . 124 working days.

c. Operating materials and supplies:

40	Boxes 40% dynamite @ $22.00 cwt	$ 440.00
6000	Ft. blasting fuse @ $14.25 M	85.50
1000	No. 8 blasting caps @ $2.75 C	22.75
50	Ft. of 3/4-inch air hose, with couplings	28.70
50	Ft. of 1/2-inch water hose, with couplings	23.60
	Detachable drill bits	25.00
	Drill steel - threaded	37.20
1984	Gals. Diesel fuel for hoist and compressor @ $0.18	357.12
496	Gals. gasoline for pickup truck and 4-wheel drive truck @ $0.32	158.72
15	Gals. compressor oil @ $2.50	37.50
	Lubricating oil and cup grease	5.00
1	First aid kit	25.00
1	Wheelbarrow, rubber tire	25.00
50	Ft. of 16 lb. mine rail, with splice bars, (2nd hand)	25.00
4	Shovels, long handle, round point @ $3.50 ea. . . .	14.00
4	Shovels, long handle, square point @ $3.50 ea. . .	14.00
4	Drift picks, handled @ $4.00 ea.	16.00
500	Ft. BM lumber for ladder stock @ $85.00 M	42.50
100	Railroad ties for mine sets @ $0.75 ea. (2nd hand).	75.00
50	Lbs. nails @ $0.15	7.50
500	Mine wedges @ $0.05 ea.	25.00
200	Lbs. miners carbide @ $0.08	16.00
2	Gal. castor machine oil @ $3.00	6.00
	Valves and pipe fittings	10.00
25	Lbs. track spikes @ $0.15	3.75
30	Qts. oil for trucks @ $0.35	10.50
1	Double jack, handled	5.00
1	Single jack, handled	3.00
2	Stilson wrenches, 18-inch @$5.00	10.00
1	Claw hammer @ $2.50	2.50
2	Miners axes, 4½ lbs., single bit, handled @ $5.00 .	10.00
300	Ft. of 2-inch, black iron pipe, (2nd hand) @0.125 .	37.50
300	Ft. of 1-inch, " " " " " @ $0.07 .	21.00
	Misc. small supplies	50.00
		$1,675.34

d. Operating equipment: To be rented

1 Mine hoist, powered by Diesel engine - $100.00/mo. with 250 feet of 5/8-inch steel cable and shaft bucket	$500.00
1 Drifter drill, 3-inch with column and bar	100.00
1 Stopehammer, for 10 day period	20.00
1 Mine car, end dump, 15 cu. ft. capacity, 18-inch track gauge (2nd hand) @ $10.00/month	50.00
	$670.00

To be furnished by applicant

1 Gardner-Denver Co., air compressor, 285 cfm, powered by 50-horsepower Diesel, engine (used) estimated value $4,000 @ 1/60 = 66.66/mo., 5 mo.	$333.30
1 Pickup truck, 3/4-ton capacity (used) estimated value $1,000 @ 1/60 = 16.66/mo., 5 mo.	83.30
1 4-wheel drive truck, (used) estimated value $2,500 @ 1/60 = 41.66/mo., 5 mo.	208.30
	$624.90

Total . . . $1,294.90

The Field Team consider the type of exploration by drifting, cross-cutting and raising will secure more information than diamond drilling because the ore deposit is oxidized and because very little core would be expected through the ore zone.

If the contract is approved, it is recommended that an experienced mining engineer be employed as the full time superintendent and that he shall have active charge of the operations and be responsible for the sampling, preparation of necessary maps and monthly reports.

Due to the lateness of the season and the isolation of the district, it is further recommended that no work be started prior to May 1, 1953.

Consideration should also be given to contracting the exploration project on a footage basis, with the applicant to furnish all equipment and supplies for the project.

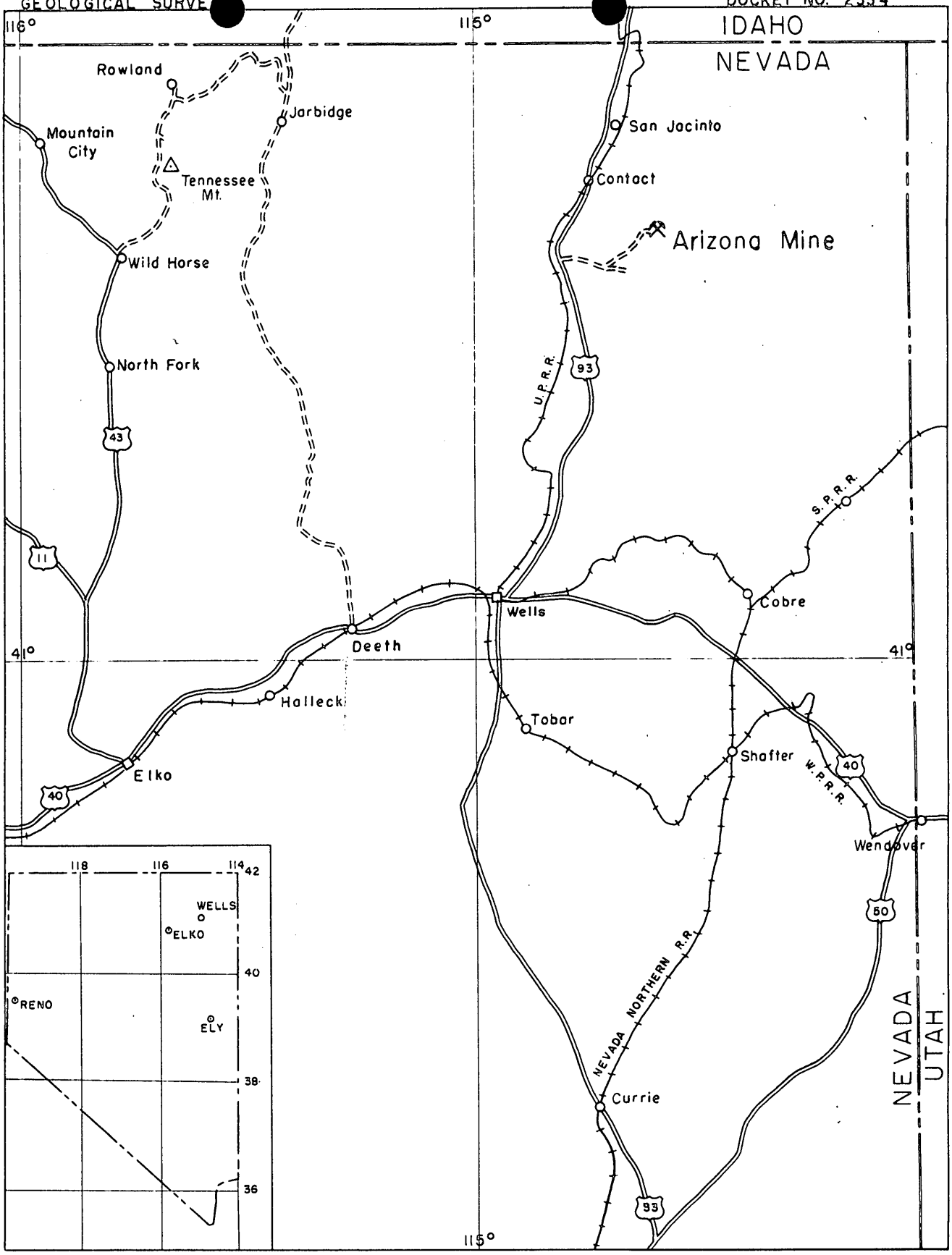


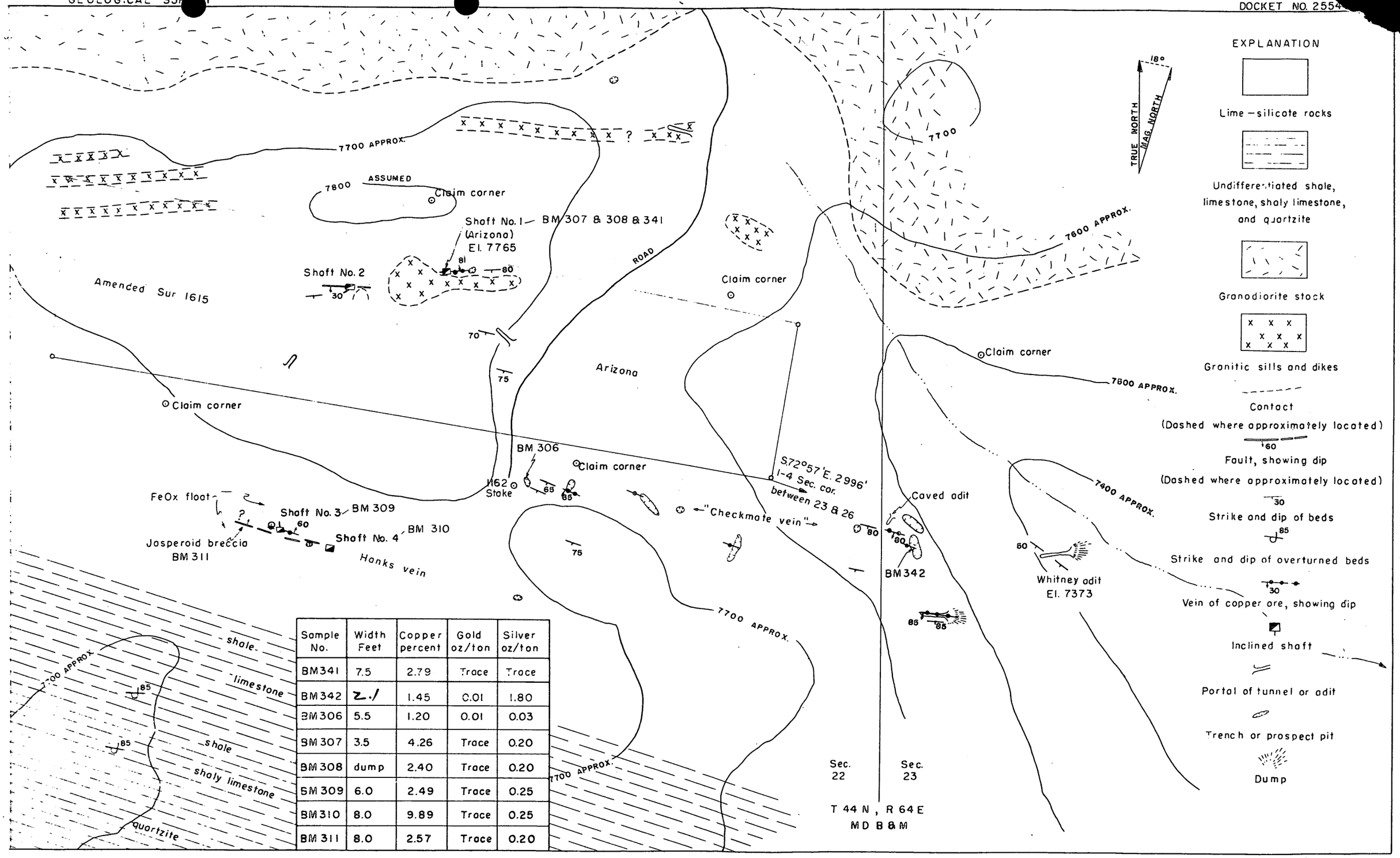
FIG. I INDEX MAP OF NEVADA

0 10 20 30 40 Miles

Scale 1:1,000,000

U. S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINIS
DOCKET NO. 2554



Sample No.	Width Feet	Copper percent	Gold oz/ton	Silver oz/ton
BM341	7.5	2.79	Trace	Trace
BM342	2.1	1.45	0.01	1.80
BM306	5.5	1.20	0.01	0.03
BM307	3.5	4.26	Trace	0.20
BM308	dump	2.40	Trace	0.20
BM309	6.0	2.49	Trace	0.25
BM310	8.0	9.89	Trace	0.25
BM311	8.0	2.57	Trace	0.20

GEOLOGY BY R. M. SMITH AND D. C. LAUB

FIG. 2

GEOLOGIC SKETCH MAP OF THE ARIZONA CLAIM

PORTER MINING DISTRICT, ELKO COUNTY, NEVADA

0 200 400 FEET
Scale

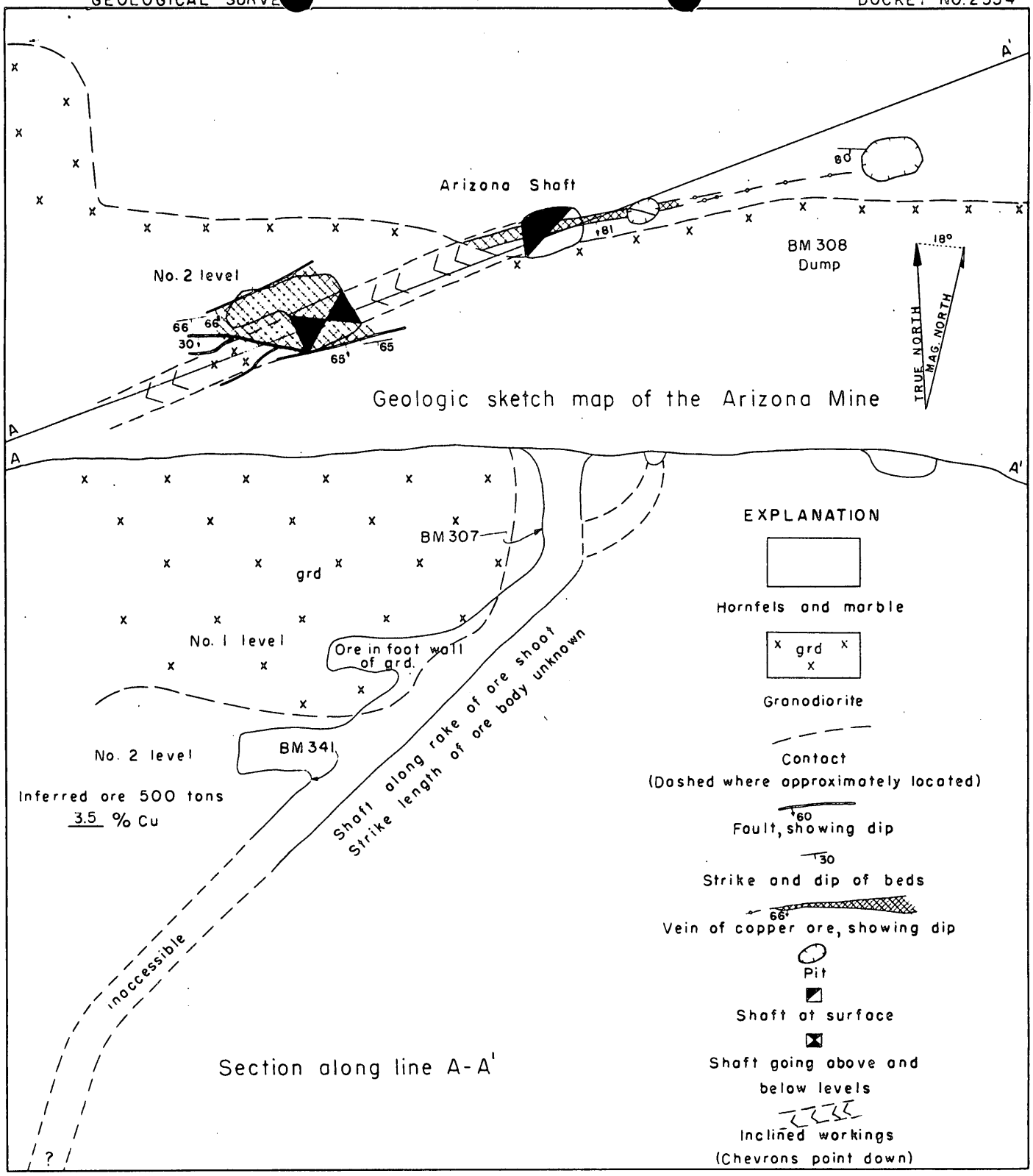


FIG. 3 GEOLOGIC SKETCH MAP AND SECTION

ARIZONA MINE, PORTER MINING DISTRICT

ELKO COUNTY, NEVADA

0 20 40 FEET
Scale

L.W.Whitney tent Camp
on the Arizona Claims

View of the Arizona Shaft
and dumps

Portal of Adit through which
the Applicant proposes to
explore the Checkmate Vein

1/22/53 gla

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

Office of
Executive Officer
DMEA Field Team
Region III

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 22 1953

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

January 16, 1953

Memorandum

To: Defense Minerals Exploration Administration, Interior Building, Washington 25, D. C. Attn: F. L. Knouse

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-2554 (Copper), L. W. Whitney, Arizona, Mining Claims, Porter Mining District, Elko County, Nevada

On December 12, 1952, you called me on the telephone concerning the subject application for an Exploration loan. You requested us to get a breakdown of costs so that you could write up a short form contract, the cross sectional sizes of the proposed drifts and raises, Owner's Consent to Lien forms, correct spelling of the word Morenci, and other matters needing clarification before a contract could be prepared.

Your request was relayed to A. C. Johnson at Reno by means of a memorandum, dated December 18. I now have Mr. Johnson's reply in the form of a memorandum, dated January 13, of which three copies are being sent herewith.

Note that Mr. Johnson has made a number of unsuccessful attempts by letter, phone and telegraph to get in touch with Mr. Whitney to obtain Owner's Consent to Lien forms. As soon as the forms reach us they will be forwarded to you.

Kindly let us know, if additional information on the subject docket is desired.

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

Attachments

Copy to: E. H. Bailey, USGS

Office of
Executive Officer
DMEA Field Team
Region III

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 8 1953

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

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To: Defense Minerals Exploration Administration, Interior Building, Washington 25, D. C. Attn: F. L. Kramme

From: Executive Officer, DMEA Field Team, Region III

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Note that Mr. Johnson has made a number of unsuccessful attempts by letter, phone and telegraph to get in touch with Mr. Whitney to obtain Owner's Consent to Lien forms. As soon as the forms reach us they will be forwarded to you.

Kindly let us know, if additional information on the subject docket is desired.

N. C. MILLER

N. C. Miller
Executive Officer
DMEA Field Team, Region III

Attachments

Copy to: R. H. Bailey, USGS

January 15, 1953

Memorandum

To: H. C. Miller, Regional Director, Region III

From: Chief, Mining Division, Region III

Subject: Docket DMRA-2554 (copper), L. N. Whitney, Arizona Mining Claims, Porter Mining District, Elko County, Nev.

With reference to your memorandum dated December 18, 1952 relative to a request from the Washington, D. C. Office for additional details of costs in considering a contract for exploration work on the above mentioned mining claims.

The accompanying cost data has been detailed to show the breakdown of expenditures for each phase of the exploration work.

The items of "clean out shaft" will constitute removing loose rock caved from around the collars of the two shafts. This work, both as to time and costs, has been estimated only, as the engineers and geologists could not get all the way down either the Arizona or Hanks shafts.

We believe the Report of Examination, dated October 24, 1952, on page 12, clearly states that the drifting is to be done from the bottom of the Arizona and Hanks shaft.

The size of the drifts and crosscuts are considered to be driven 5 feet wide by 7 feet in height. The same cross sectional size is considered to be ample for the raise.

On November 4, 1952, necessary copies of Form MI-203, "Owner's Consent to Lien", were mailed to Mr. L. N. Whitney at his official address, Meadows, Idaho.

On December 16, 1952, in a letter addressed to Mr. L. N. Whitney, Meadows, Idaho, this office requested to be informed as to whether or not the "Owner's Consent to Lien" had been obtained and if so, to forward the signed forms, MI-203) as soon as possible.

On December 31, 1952, the following telegram was sent to Mr. L. C. Whitney, Meadows, Idaho:

"Please advise by wire immediately whether or not you have been able to secure signatures of 'Owners Consent to Lien' on forms which were mailed to you on November four. These forms necessary in connection with application for contract on your Arizona Mining Claims, Elko County, Nevada under DMEA."

To date, Mr. Whitney has not answered any of the above communications.

The attempt to reach Mr. Whitney by telephone was not successful as we were informed there was no telephone service into the town of Meadows, Idaho.

The applicant had advised the Field Team that the word MONARCH is spelled with an "i" and we therefore assume the spelling of this word ending in an "o" is an error.

The Saddle, Annex and Gulch mining claims were located by the applicant, but not surveyed or recorded and no assessment work or prospecting has been done on these claims. They are located at a considerable distance from the proposed exploration work and were considered to have no bearing on the proposed project.

A. C. Johnson

Encl.

COST DATA

Arizona Shaft:

1. Erect new headframe.
2. Install mine hoist, cable and bucket.
3. Construct ladders.

			Labor	Materials
Time:	Item No. 1	3 days	$258.75	On hand
	" No. 2	2 "	106.38	To be furnished by applicant
	" No. 3	1 "	17.10	$42.50
		6 "	$382.23	$42.50

Rehabilitation work:

1. Install new timbers at collar of shaft (probably 4 to 6 sets).
2. Clean out shaft: Probably for a distance of 80 feet. Considerable rock has caved from around the collar of the old shaft and this muck will have to be loaded into the bucket and hoisted to the surface.
3. Install bucket guides down shaft as clean up advances.
4. Install ladders in shaft.
5. Install air and water lines in shaft.

			Labor	Materials	Total
Time:	Item No. 1	3 days	$159.57	$ 20.50	$180.07
	" No. 2	2 "	106.38	30.00	136.38
	" No. 3	2 "	159.57	25.00	184.57
	" No. 4	2 "	68.40	42.50	110.90
	" No. 5	2 "	68.40	30.00	98.40
		11 "	$562.32	$148.00	$710.32

Resume of costs:

Preparatory work	$382.23	42.50	424.73
Rehabilitation	562.32	148.00	710.32
	$944.55	$190.50	$1135.05

$1,135.05 @ 150 feet of drifts and crosscuts = $7.57 per foot.

Drifting and crosscutting - 150 feet:

Labor	$3,277.50	-	$21.85	per foot
Materials	776.93	-	5.18	" "
Equipment rental	335.00	-	2.23	" "
Equipment from applicant on depreciation	312.45	-	2.08	" "
Total cost per foot			$38.91	

Hanks Shaft:

	Labor	Material	Total
Transfer headframe from Arizona Shaft.	$258.75	None	$258.75
Transfer hoist, cable and bucket from Arizona Shaft	86.25	None	86.25
	$345.00	None	$345.00

Rehabilitation work:

1. Install new timbers at collar of shaft shaft	159.57	20.50	$180.07
2. Clean out shaft	513.00	30.00	543.00
3. Install bucket guides	159.57	25.00	184.57
4. Install ladders in shaft . . .	34.20	None	34.20
5. Construct ladders for shaft . .	17.10	21.25	38.35
6. Install bucket guides down shaft	159.57	25.00	184.57
7. Install air and water lines in shaft	68.40	30.00	98.40
8. Transfer compressor from Arizona Shaft	18.05	None	18.05
	$1,129.46	$151.75	$1281.21

Resume of costs:

Preparatory work	345.00	None	345.00
Rehabilitation	1,129.46	151.75	1281.21
	$1,474.46	$151.75	$1626.21

$1,626.21 for 176 feet of drifting and raise = $9.29 per foot.

Drifting and raise - 175 feet:

Labor	$3,795.00	-	$21.11	per foot
Materials	776.93	-	4.44	" "
Equipment rental	335.00	-	1.91	" "
Equipment by applicant on depreciation	312.45	-	1.78	" "
Total cost per foot			$38.55	" "

Totals:All costs

Arizona Shaft	$5,836.93
Hanks Shaft	6,845.59
	$12,682.52
Add contingency fund .	1,192.96
	$13,875.48

January 13, 1953

Memorandum

To: H. C. Miller, Regional Director, Region III

From: Chief, Mining Division, Region III

Subject: Docket DMEA-2554 (copper), L. W. Whitney, Arizona Mining Claims, Porter Mining District, Elko County, Nev.

With reference to your memorandum dated December 18, 1952 relative to a request from the Washington, D. C. Office for additional details of costs in considering a contract for exploration work on the above mentioned mining claims.

The accompanying cost data has been detailed to show the breakdown of expenditures for each phase of the exploration work.

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On December 31, 1952, the following telegram was sent to Mr. L. W. Whitney, Meadows, Idaho:

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To date, Mr. Whitney has not answered any of the above communications.

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The applicant had advised the Field Team that the word MORENCI is spelled with an "i" and we therefore assume the spelling of this word ending in an "o" is an error.

The Saddle, Annex and Gulch mining claims were located by the applicant, but not surveyed or recorded and no assessment work or prospecting has been done on these claims. They are located at a considerable distance from the proposed exploration work and were considered to have no bearing on the proposed project.

A. C. Johnson

Encl.

COST DATA

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3. Construct ladders.

			Labor	Materials
Time:	Item No. 1	3 days	$258.75	On hand
	" No. 2	2 "	106.38	To be furnished by applicant
	" No. 3	1 "	17.10	$42.50
		6 "	$382.23	$42.50

Rehabilitation work:

1. Install new timbers at collar of shaft (probably 4 to 6 sets).
2. Clean out shaft: Probably for a distance of 60 feet. Considerable rock has caved from around the collar of the old shaft and this muck will have to be loaded into the bucket and hoisted to the surface.
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4. Install ladders in shaft.
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Time:	Item No. 1	3 days	$159.57	$ 20.50	$180.07
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	" No. 3	2 "	159.57	25.00	184.57
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	" No. 5	2 "	68.40	30.00	98.40
		11 "	$562.32	$148.00	$710.32

Resume of costs:

Preparatory work	$382.23	42.50	424.73
Rehabilitation	562.32	148.00	710.32
	$944.55	$190.50	$1135.05

$1,135.05 @ 150 feet of drifts and crosscuts = $7.57 per foot.

Drifting and crosscutting - 150 feet:

Labor	$3,277.50	-	$21.85	per foot
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Transfer headframe from Arizona Shaft.	$258.75	None	$258.75
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7. Install air and water lines in shaft	68.40	30.00	98.40
8. Transfer compressor from Arizona Shaft	18.05	None	18.05
	$1,129.46	$151.75	$1281.21

Resume of costs:

Preparatory work	345.00	None	345.00
Rehabilitation	1,129.46	151.75	1281.21
	$1,474.46	$151.75	$1626.21

$1,626.21 for 175 feet of drifting and raise = $9.29 per foot.

Drifting and raise - 175 feet:

Labor	$3,795.00	-	$21.11	per foot
Materials	776.93	-	4.44	" "
Equipment rental	335.00	-	1.91	" "
Equipment by applicant on depreciation	312.45	-	1.78	" "
Total cost per foot			$38.53	" "

Totals:All costs

Arizona Shaft	$5,236.93
Hanks Shaft	6,845.59
	$12,082.52
Add contingency fund .	1,192.96
	$13,275.48

January 13, 1953

Memorandum

To: H. C. Miller, Regional Director, Region III

From: Chief, Mining Division, Region III

Subject: Docket DMEA-2554 (copper), L. W. Whitney, Arizona Mining Claims, Porter Mining District, Elko County, Nev.

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A. C. Johnson

Encl.

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Arizona Shaft:

1. Erect new headframe.
2. Install mine hoist, cable and bucket.
3. Construct ladders.

			Labor	Materials
Time:	Item No. 1	3 days	$255.75	On hand
	" No. 2	2 "	106.38	To be furnished by applicant
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		6 "	$382.23	$42.50

Rehabilitation work:

1. Install new timbers at collar of shaft (probably 4 to 6 sets).
2. Clean out shaft: Probably for a distance of 60 feet. Considerable rock has caved from around the collar of the old shaft and this muck will have to be loaded into the bucket and hoisted to the surface.
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4. Install ladders in shaft.
5. Install air and water lines in shaft.

			Labor	Materials	Total
Time:	Item No. 1	3 days	$159.57	$ 20.50	$180.07
	" No. 2	2 "	106.38	30.00	136.38
	" No. 3	2 "	159.57	25.00	184.57
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Resume of costs:

Preparatory work	$382.23	42.50	424.73
Rehabilitation	562.32	148.00	710.32
	$944.55	$190.50	$1135.05

$1,135.05 ÷ 150 feet of drifts and crosscuts = $7.57 per foot.

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Hanks Shaft:

	Labor	Material	Total
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Transfer hoist, cable and bucket from Arizona Shaft	86.25	None	86.25
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Rehabilitation work:

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Materials	776.93	-	4.44	" "
Equipment rental	335.00	-	1.91	" "
Equipment by applicant on depreciation	312.45	-	1.78	" "
Total cost per foot			$38.53	" "

Totals:All costs

Arizona Shaft	$5,836.93
Hanks Shaft	6,845.59
	$12,682.52
Add contingency fund .	1,192.96
	$13,875.48

2/10,53gla

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 9 1953

Office of
Executive Officer
DMEA Field Team
Region III

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

February 3, 1953

Mr. L. W. Whitney
Meadows, Idaho

Re: Docket DMEA-2554 (Copper),
L. W. Whitney, Arizona,
Mining Claims, Porter
Mining District,
Elko County, Nevada

Dear Mr. Whitney:

Reference is made to the captioned lease application.

I have been advised by the Washington office, of the Defense Minerals Exploration Administration, that your application is being processed and a contract is being roughed-out. However, as I have been informed, final processing of the application can not be made until Owner's Consent to Lien forms have been received.

Will you kindly send me these forms properly executed, so that I can send them to the Washington office without undue delay.

Sincerely yours,

/ H. C. MILLER

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

Copy to: DMEA, Interior Building, Washington
E. H. Bailey, USGS
A. C. Johnson, Reno

HCMiller:mpp
Files
Chron.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 9 1953

Office of
Executive Officer
DMEA Field Team
Region III

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

February 3, 1953

Mr. L. W. Whitney
Meadows, Idaho

Re: Docket DMEA-2554 (Copper),
L. W. Whitney, Arizona,
Mining Claims, Porter
Mining District,
Elko County, Nevada

Dear Mr. Whitney:

Reference is made to the captioned loan application.

I have been advised by the Washington office, of the Defense Minerals Exploration Administration, that your application is being processed and a contract is being roughed-out. However, as I have been informed, final processing of the application can not be made until Owner's Consent/Lien forms have been received.

Will you kindly send me these forms properly executed, so that I can send them to the Washington office without undue delay.

Sincerely yours,

H. C. MILLER

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

Copy to: DMEA, Interior Building, Washington
E. H. Bailey, USGS
A. C. Johnson, Reno

HCMiller:mpp
Files
Chron.

2/17/53 yem

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 1 0 1953

Office of
Executive Officer
DMEA Field Team
Region III

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

February 11, 1953

Memorandum

To: Defense Minerals Exploration Administration, Interior Building, Washington 25, D. C. Attn: Fred Knouse

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-2554 (Copper), Arizona Mining Claims, Porter Mining District, Elko County, Nevada - L. W. Whitney

For your information there is attached a copy of a letter to me, dated February 7, from Mr. L. W. Whitney, with the sketch referred to in the letter attached. This letter is in reply to my letter to him, dated February 3, requesting Owner's Consent to Lien forms.

Attached also is a copy of my reply to Mr. Whitney's letter. There is attached also a copy of a letter from Mr. Whitney to A. C. Johnson dated January 29.

You will note in the February 7 letter that Mr. Whitney is not interested in the recommendation that the work be confined to cleaning out the shafts, drifting, crosscutting and raising. Apparently, what he wants is to drive the 1500 foot adit proposed in his application and turned down by our engineer and geologists.

In connection with the statement appearing in the January 29 letter to Mr. Johnson to wit: "I am not withdrawing my application for loan, as you suggest, but ask, before final decision by your department is given that, 1. The Checkmate Vein be examined by an engineer that has had experience and has an understanding of a (Bleached ore body)." What Mr. Johnson wrote him was this: "If the exploratory work that has been outlined (by the engineer and geologists) does not meet with your approval and you do not believe that it will effectively explore the property, it is suggested that the application be cancelled."

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

Attachments

Copy to: E. H. Bailey, USGS
A. C. Johnson, Reno

over

3-20-53

under the above date I discussed with Mr. H.C. Willis the possibility of working out a program of exploration in two stages with the operator U.S.

1. Trenching w/a tractor w/dozer for the exhumation of the Checkerdate and other veins

2. If program in Stage I indicates additional work is justified follow the work with either a drilling (diamond drilling) drifting, or cleaning out the shafts and drifting whichever is indicated should be done.

Office of
Executive Officer
DMEA Field Team
Region III

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

February 11, 1953

Memorandum

To: Defense Minerals Exploration Administration, Interior Building, Washington 25, D. C. Attn: Fred Knouse

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-2554 (Copper), Arizona Mining Claims, Porter Mining District, Elko County, Nevada - L. W. Whitney

For your information there is attached a copy of a letter to me, dated February 7, from Mr. L. W. Whitney, with the sketch referred to in the letter attached. This letter is in reply to my letter to him, dated February 3, requesting Owner's Consent to Lien forms.

Attached also is a copy of my reply to Mr. Whitney's letter. There is attached also a copy of a letter from Mr. Whitney to A. C. Johnson dated January 29.

You will note in the February 7 letter that Mr. Whitney is not interested in the recommendation that the work be confined to cleaning out the shafts, drifting, crosscutting and raising. Apparently, what he wants is to drive the 1500 foot adit proposed in his application and turned down by our engineer and geologists.

In connection with the statement appearing in the January 29 letter to Mr. Johnson to wit: "I am not withdrawing my application for loan, as you suggest, but ask, before final decision by your department is given that, 1. The Checkmate Vein be examined by an engineer that has had experience and has an understanding of a (Bleached ore body)." What Mr. Johnson wrote him was this: "If the exploratory work that has been outlined (by the engineer and geologists) does not meet with your approval and you do not believe that it will effectively explore the property, it is suggested that the application be cancelled."

H. C. MILLER

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

Attachments

Copy to: R. H. Bailey, USGS
A. C. Johnson, Reno

C
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Meadows, Idaho
February 7, 1953

Mr. H. C. Miller
Executive Officer
DMEA Field Team, Region III.

Re: Docket DMEA-2554 (Copper)
Arizona Mining Claims
Elko Co., Nevada

Dear Mr. Miller;

Your letter of Feb. 3d saying my application for loan was being processed in Washington office was a surprise, as I supposed it was still in the Reno office.

We sent Form 202, Owner's Consent to Lien with application. Will you please tell me why a duplication with Form 203 is wanted? I have asked the Reno office and received no answer to my question.

If the loan is being processed according to plans recommended by the investigating engineers, (opening 2 shafts and drifting from there), I am not interested, as the possible gain in knowledge, and ore opened up does not justify the expense involved.

Am enclosing copy of letter to Reno office.

When the engineers were investigating the Checkmate vein they said it was a type of ore they were not familiar with and did not know what to expect of it, so would have to turn it down.

I ask them to go about 15 miles to the Boston mine where they could see the same type of outcrop, opened at some depth, but they did not think they had time.

The Checkmate vein is a Bleached ore showing, with some low grade ore outcrops. Am enclosing sketch showing approximate showing and lay of veins.

The Boston outcrop is the same except much smaller showing, and it would be hard to get a surface sample of 1% copper but opens to a large body of over 3% copper average. Is same type of deposit and ore, as the Checkmate vein, and there is good reason to believe the Checkmate vein will open up the same way.

I think that, due to the admitted inexperience of the investigating engineers, we are entitled to have this investigated by an engineer that understands Bleached showings and what to expect of them, before final action on the application.

Very truly yours

/s/ L. W. Whitney
Meadows, Idaho

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Meadows, Idaho
February 7, 1953

Mr. H. C. Miller
Executive Officer
DMEA Field Team, Region III.

Re: Docket DMEA-2554 (Copper)
Arizona Mining Claims
Elko Co., Nevada

Dear Mr. Miller;

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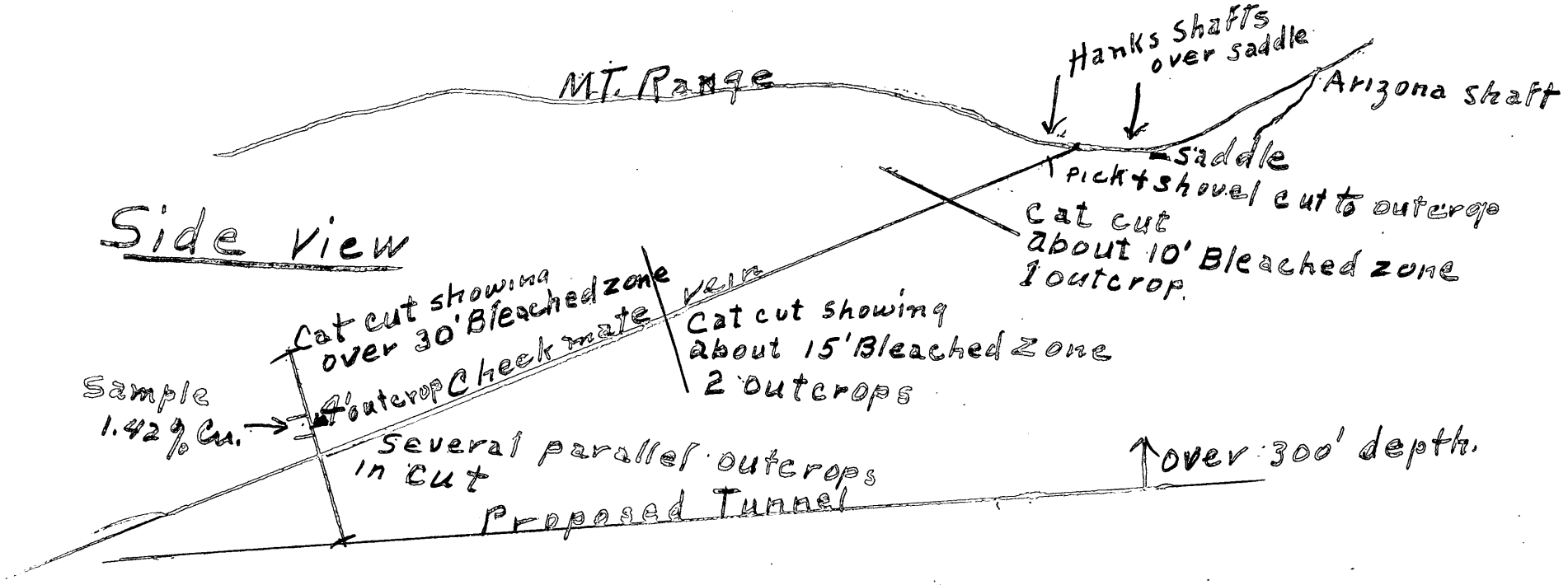
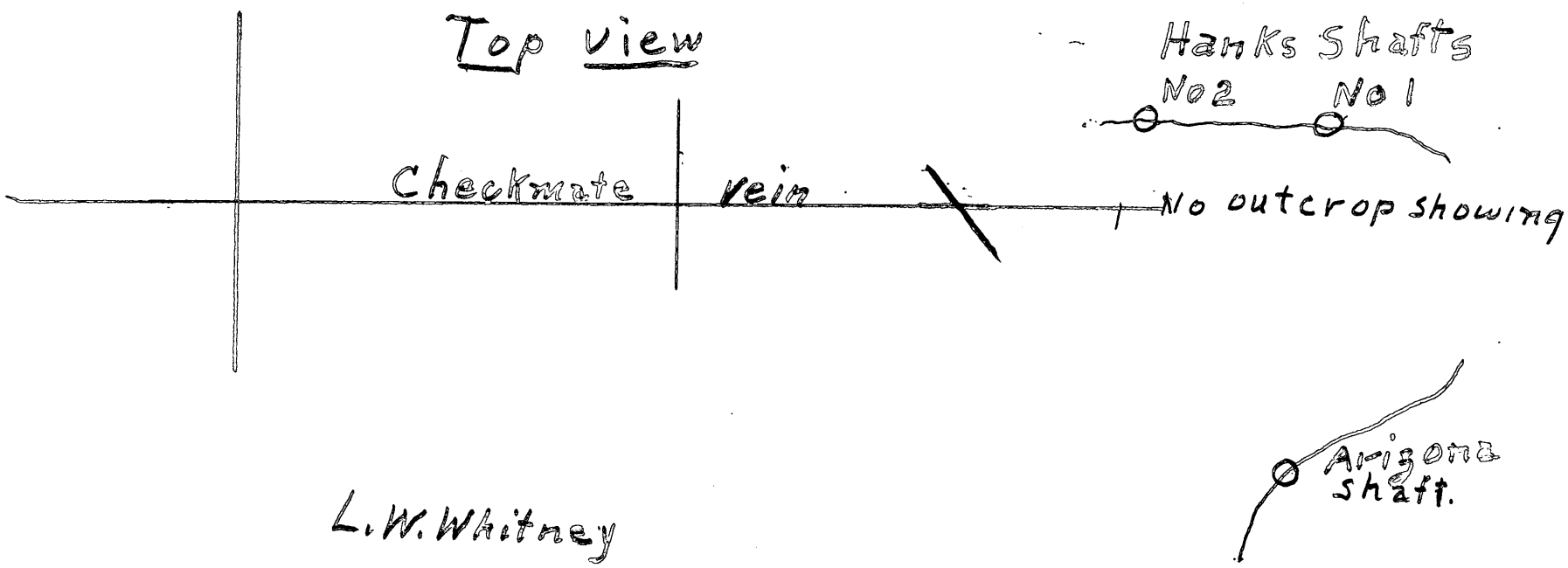
I think that, due to the admitted inexperience of the investigating engineers, we are entitled to have this investigated by an engineer that understands Bleached showings and what to expect of them, before final action on the application.

Very truly yours

/s/ L. W. Whitney
Meadows, Idaho

Rough Sketch of Proposed Work





L. W. Whitney

Office of
Executive Officer
DMEA Field Team
Region III

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

February 11, 1953

Mr. L. W. Whitney
Meadows, Idaho

Re: Docket DMEA-2554 (Copper)
Arizona Mining Claims
Porter Mining District
Elko County, Nevada

Dear Mr. Whitney:

I acknowledge your letter of February 7 informing me that you sent a copy of Owner's Consent to Lien with your application. You probably sent form 202, Landlord's Subordination Agreement, but perhaps you did not send the required number of copies. It is Form MF-203 that is now used. Anyway, the Washington office of the Defense Minerals Exploration Administration requested me by long distance telephone to have you send in seven copies each of the Owner's Consent to Lien (Form MF 203) for the following claims: Bessie M. Wootan for the Arizona Claim; T. J. Carravon for the Paddy Claim, and B. A. Hanks for the Moreno Claim.

I note that you are not interested in an exploration contract for cleaning out the Arizona and the Hanks shafts and then doing some drifting, crosscutting and raising to determine the potential value of your property at an overall cost of approximately $13,875.00. This is the work our engineer and geologists recommended be done. You, on the other hand, desire to explore the "Checkmate vein" by extending the Whitney adit 1500 feet west along the strike of the vein at a cost of approximately $49,315.00 with the expectation that you would encounter the junction of the Arizona, Hanks, and Checkmate veins at a depth of 350 feet below the surface.

The report made on your property brings out that the existence of the Checkmate vein is not demonstrated and the Hanks and Arizona veins probably do not intersect near the altitude of the proposed adit. It is for that reason that our engineer and geologists have proposed the alternative and what appears to be a sounder program and one not based too much on theory.

Knowing the engineer and geologists who examined your property and their capabilities and experience, I would hesitate to agree with you that they were inexperienced men. Their report indicates that they made a thorough examination of the property and that their

recommendations are sound. That you are not interested in their recommendations is being transmitted to the Washington office of the Defense Minerals Exploration Administration by means of copies of your letters, dated January 29 and February 7, to Mr. A. G. Johnson and me respectively.

Sincerely yours,

H. C. MILLER

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

Copy to: DMEA, Interior Building, Washington
E. H. Bailey, USGS
A. G. Johnson

Office of
Executive Officer
DMEA Field Team
Region III

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

February 11, 1953

Mr. L. W. Whitney
Meadows, Idaho

Re: Docket DMEA-2554 (Copper)
Arizona Mining Claims
Porter Mining District
Elko County, Nevada

Dear Mr. Whitney:

I acknowledge your letter of February 7 informing me that you sent a copy of Owner's Consent to Lien with your application. You probably sent form 202, Landlord's Subordination Agreement, but perhaps you did not send the required number of copies. It is Form MF-205 that is now used. Anyway, the Washington office of the Defense Minerals Exploration Administration requested me by long distance telephone to have you send in seven copies each of the Owner's Consent to Lien (Form MF 205) for the following claims: Bessie M. Wootan for the Arizona Claim; T. J. Carravon for the Paddy Claim, and B. A. Hanks for the Morenci Claim.

I note that you are not interested in an exploration contract for cleaning out the Arizona and the Hanks shafts and then doing some drifting, crosscutting and raising to determine the potential value of your property at an overall cost of approximately $13,875.00. This is the work our engineer and geologists recommended be done. You, on the other hand, desire to explore the "Checkmate vein" by extending the Whitney adit 1500 feet west along the strike of the vein at a cost of approximately $49,315.00 with the expectation that you would encounter the junction of the Arizona, Hanks, and Checkmate veins at a depth of 350 feet below the surface.

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Knowing the engineer and geologists who examined your property and their capabilities and experience, I would hesitate to agree with you that they were inexperienced men. Their report indicates that they made a thorough examination of the property and that their

recommendations are sound. That you are not interested in their recommendations is being transmitted to the Washington office of the Defense Minerals Exploration Administration by means of copies of your letters, dated January 29 and February 7, to Mr. A. C. Johnson and me respectively.

Sincerely yours,

H. C. MILLER

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

Copy to: DMEA, Interior Building, Washington
E. H. Bailey, USGS
A. C. Johnson

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Meadows, Idaho
January 29, 1953

Mr. A. C. Johnson, Chief
Mining Division
Region III.

Re: Docket IMEA-2554 (Copper)
Arizona Mining Claims
Elko Co., Nevada.

Dear Mr. Johnson:

In your letter of Jan. 23, you did not tell me why form 202, which accompanied the application is not an Owner's Consent to Lien, which was the form required at that time.

I am not interested in your proposed development, for several reasons. 1. The existing shafts show commercial ore bodies, and much of the money spent would be duplication of work already done.

2. Your proposed work is the most expensive way possible for exploration, altho you did not give a breake down of proposed work and costs, as I ask for, I know this to be so.

3. As you stated, an exploration loan is not for the purpose of development, however, when the exploration can be done in a way so something of value will be left for future development, it should be given serious consideration.

I am not withdrawing my application for loan, as you suggest, but ask, before final decision by your department is given that,

1. The Checkmate Vein be examined by an engineer that has had experience and has an understanding of a (Bleached ore body).

Your engineers said, when examining the vein, that it was a type of ore they had not seen before and did not know what to expect from it.

I ask them to go about 15 miles with me, to another mine that has the same type of ore, where they could see it at some depth, but they did not think they had time.

The surface showing is not near as good as on the Checkmate vein, yet opens to a good deposit of over 3% copper.

The engineers thought the Checkmate vein, to be a series of parallel veins which would probably not ever come together. The same conditions exist at the other mine, yet not far below the surface all goes into a large body of mill ore.

2. I suggest that the tunnel already started, to crosscut the Checkmate vein, be run far enough to prove or disprove our theory, and if we are right, to extend the tunnel as applied for in application.

3. If our theory proves right, a large body of mill ore will be opened up, and at the same time will be deep enough under the Hanks, and Arizona veins to be in the secondary enrichment, as both veins show some leeching. There probably would have to be some cross cutting to reach these veins.

4. I suggest that this is a practical exploration program, with a good chance of success, also that the cost of exploration will not be wasted as the same tunnel can be used for future work.

Very truly yours,

/s/ L. W. Whitney
Meadows, Idaho

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Meadows, Idaho
January 29, 1953

Mr. A. C. Johnson, Chief
Mining Division
Region III.

Re: Docket DMEA-2554 (Copper)
Arizona Mining Claims
Elko Co., Nevada.

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Very truly yours,

/s/ L. W. Whitney
Meadows, Idaho

2/21/53 gla

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

Office of
Executive Officer
DMEA Field Team
Region III

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 24 1953

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

February 19, 1953

Memorandum

To: Defense Minerals Exploration Administration, Interior Building, Washington 25, D. C. Attn: F. L. Knouse

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-2554 (Copper), Arizona Mining Claims, Porter Mining District, Elko County, Nevada - L. W. Whitney

With my subject memorandum to you, dated February 11, I sent you a copy of a letter, dated January 29, from Mr. L. W. Whitney to A. C. Johnson.

Herewith is attached a copy of Mr. Johnson's reply to Mr. Whitney dated February 17, 1953.

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

Attachment

Copy to: A. C. Johnson, Reno
E. H. Bailey, USGS

Office of
Executive Officer
DMEA Field Team
Region III

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 20 1953

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

February 19, 1953

Memorandum

To: Defense Minerals Exploration Administration, Interior Building, Washington 25, D. C. Attn: F. L. Kneuse

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-2554 (Copper), Arizona Mining Claims, Porter Mining District, Elko County, Nevada - L. W. Whitney

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Herewith is attached a copy of Mr. Johnson's reply to Mr. Whitney dated February 17, 1953.

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

Attachment

Copy to: A. C. Johnson, Reno
E. H. Bailey, USGS

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February 17, 1953

Mr. L. W. Whitney
Meadows, Idaho

Dear Mr. Whitney:

Re: Docket DMEA-2554 (Copper)
Arizona Mining Claims
Elko County, Nev.

Replying to your letter of January 19 relative to exploration on your Arizona Mining Claims in Elko County, Nev.:

Under date of November 4, forms MF-203, Owner's Consent to Lien were furnished you. These forms were sent to you as it was our understanding that you had not furnished them with your original application.

The Mining Division of Region III are not proposing an exploration project for your property. The examination that was made by the engineer from this office and a geologist from the U. S. Geological Survey were in agreement that the work that you proposed did not offer possibilities of making a significant discovery.

The statement that you make in your letter: "The existing shafts show commerical ore bodies, and much of the money spent would be duplication of work already done." If this statement is true, exploration work should not be done, as it would come under the heading of 'development work'.

The examining engineer from my office has also informed me that he was unable to get down to the bottom of the shaft and therefore is unable to verify the statements that you have made. That is one of the reasons that he has proposed that the shaft be cleaned out to enable them to sample any ore that might be present. The particular reasons for considering the rehabilitation of the Arizona and Hank shafts were to delineate any orebodies that might be found and it was considered to be the quickest and cheapest method of exploration.

In answer to your item 3. Careful consideration has been given to your proposed exploration work and the conclusions that you have drawn are not logical, as the examining engineer and geologist did not see any surface evidence that would lead to a conclusion that an orebody would be found at depth.

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I do not believe that my enginner or the geologist from the U. S. Geological Survey made a statement to the effect that when they examined the Checkmate Vein that they had not seen that type of ore and they did not know what to expect from it. You also stated that you had asked them to visit a property that was 15 miles distant from the place that you were asking for exploration assistance. I do not believe that the property that you intended to show these gentlemen would have any bearing on the property you consider for exploration work.

The Mining Division of Region III does not have any objection on any work that you do with your own funds on the Checkmate vein. The engineer of the Bureau of Mines and the geologist of the U. S. Geological Survey are not recommending expenditure of Government funds for work that is highly speculative.

Very truly yours,

A. C. Johnson, Chief
Mining Division
Region III

ACJ;gh
cc: H. C. Miller
Files
E. H. Bailey

C
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February 17, 1953

Mr. L. W. Whitney
Meadows, Idaho

Dear Mr. Whitney:

Re: Docket DMEA-2554 (Copper)
Arizona Mining Claims
Elko County, Nev.

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Very truly yours,

A. C. Johnson, Chief
Mining Division
Region III

ACJ;gh
cc: H. C. Miller
Files
E. H. Bailey

3/4/53 gla

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

Office of
Executive Officer
DMEA Field Team
Region III

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 27 1953

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

February 26, 1953

AIR MAIL

Memorandum

To: Defense Minerals Exploration Administration, Interior Building, Washington 25, D. C. Attn: F. L. Knouse

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-2554 (Copper), Arizona Mining Claims, Porter Mining District, Elko County, Nevada - L. W. Whitney

Reference is made to your February 20 telephone call concerning a possible trenching program on the subject property.

Your thoughts on the matter were transmitted to Mr. A. C. Johnson who has now sent me his reply. A copy of Mr. Johnson's memorandum to me, dated February 25, 1953, is attached. I believe you will find all your questions answered in the memorandum.

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

Attachment

Copy to: E. H. Bailey, USGS

Office of
Executive Officer
DMEA Field Team
Region III

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 27 1953

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

February 26, 1953

AIR MAIL

Memorandum

To: Defense Minerals Exploration Administration, Interior Building, Washington 25, D. C. Attn: F. L. Emmons

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMA-2554 (Copper), Arizona Mining Claims, Porter Mining District, Elko County, Nevada - L. M. Whitney

Reference is made to your February 20 telephone call concerning a possible prospecting program on the subject property.

Your thoughts on the matter were transmitted to Mr. A. G. Johnson who has now sent me his reply. A copy of Mr. Johnson's memorandum to me dated February 25, 1953, is attached. I believe you will find all your questions answered in the memorandum.

H. C. MILLER

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

Attachment

Copy to: R. M. Bailey, USGS

Reno, Nevada

February 25, 1953

Memorandum

To: H. G. Miller, Executive Officer, DMEA Field Team, Region III

From: Chief, Mining Division, Region III

Subject: Docket DMEA-2554 (Copper), Arizona Mining Claims, Porter Mining District, Elko County, Nevada - L. W. Whitney

I have discussed the exploration work that has been proposed on the Arizona Mining Claims with Mr. Gentry who examined the property. I particularly asked him if any trenching had been done on the Checkmate vein to more or less substantiate the work that was proposed in the application by Mr. Whitney.

Mr. Gentry has informed me that the applicant has made several bulldozer trenches across the so-called "Checkmate vein" and these bulldozer trenches do not establish the existence of a vein in this area. He has also told me that in all likelihood very little information would be obtained by a drilling program. The ore is oxidized and in all likelihood a good core recovery would not be obtained by a drilling program.

The geologists, Mr. Smith and Mr. Lamb of the U. S. Geological Survey and Mr. Gentry of the Bureau of Mines are in agreement that the most logical procedure under the exploration program on this project would be work that they have proposed. To clean out the Arizona and Hank shafts and to do a small amount of crosscutting on the mineralized area to determine the tenure of the copper mineralization.

Mr. Gentry has also informed me that numerous trenches and openings on both sides of the Hanks and Arizona shafts have failed to disclose information that is of much value.

/s/ A. C. Johnson

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Reno, Nevada

February 25, 1953

Memorandum

To: H. C. Miller, Executive Officer, DMEA Field Team, Region III

From: Chief, Mining Division, Region III

Subject: Docket DMEA-2554 (Copper), Arizona Mining Claims, Porter Mining District, Elko County, Nevada - L. W. Whitney

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Mr. Gentry has also informed me that numerous trenches and openings on both sides of the Hanks and Arizona shafts have filed to disclose information that is of much value.

/s/ A. C. Johnson

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FILE COPY
SURNAME:

F. J. Krause
Ellis
Wadsworth

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

APR 27 1953

Mr. L. [illegible] Whitney
Meadows, [illegible]

[illegible] Docket [illegible]-25[illegible] (C.O. [illegible])
[illegible] Mica [illegible] 1 [illegible]
Porter [illegible] Lewis Lot
Lyon County, Nevada

Dear Mr. Whitney:

This is with reference to the proposed [illegible] of exploring the captioned property; the one proposed by you and the other recommended by this Agency's Field Team. As neither of these proposals met with both your and this Agency's approval, we suggest that you contact Mr. [illegible] Miller, Executive Officer, [illegible] Field Team, Region [illegible], 1012 Flood Building, 870 Market Street, San Francisco 2, California, or Mr. [illegible] Johnson, Chief, [illegible] Division, Region [illegible], P. O. Box 1521, Reno, Nevada, with the view of developing an exploration program that is approved by both parties.

[illegible] by allowing a [illegible] to complete these negotiations, but if we do not hear from you by [illegible], we will assume you have no further interest in obtaining Government aid to explore your property and will consider the docket closed.

Sincerely yours,

SIGNED

S.H.
4/27/53

Ernest [illegible] Ellis, Chief
Land and Miscellaneous Minerals
Division

Krause/la
4-24-53
cc to: Adm. Reading File
Docket
Messrs. J. R. Johnson, Jr. 5021
[illegible] Rinkel, Jr., Rm. [illegible]-2 2[illegible], [illegible]
Ellis
Krause
DMA Field Team, Region [illegible] (2) w/c to be fwd. to [illegible] Johnson, Reno, Nevada

Meadows, Idaho
May 16, 1953

OFFICE OF THE Director
Defense Minerals Administration
RECEIVED
MAY 22 1953

Ernest Wm. Ellis, Chief
Rare and Miscellaneous Metals
Division

Dear Mr. Ellis;

Re: Docket No. DMEA-2554 (Copper)
Arizona Mining Claims
Porter Mining District
Elko County, Nevada

Replying to your letter of April 27, I am not withdrawing my application for loan, as Mr. Johnson has proposed that I do, but can see no point in me trying to work out a deal with him, as I think you will agree after reading his letters of January 23, and February 17, 1953, copies of which are enclosed.

To do the surface development they have proposed would be mostly a waste of tax payers, and our money, as these are ore chutes and the proposed drifting would be far enough to get out of the high grade, into low grade ore but not far enough to get to the next ore chutes.

Several prominent engineers, with experience, have examined this property in the past, and the method we proposed in the application, was based on their advice. I think their opinions are more reliable than the opinion of the investigating engineer from the Reno office.

Mr. Smith from the Salt Lake office explained his opinion to me, but also said the Checkmate vein was a different formation than any he had seen and did not know just what to expect, but would have to turn it down. He was honest in his statements, and realized that no one could look at ore and be positive of his judgement. He and Mr. Gentry called it an altered lime. It is true there is altered lime there but if they had of had this ore analized they would have found it to be a very hard silicious primary ore, as the 1.45% Cu. in sample 342 would indicate.

The ore in the Boston mine where I asked them to go for a comparison, is exactly the same type of deposit only much smaller. It has been developed to a depth of 200 ft. and 500 ft. in length and has a vein from 10 to 40 ft. in width, averaging over 3% Cu. with corresponding gold and silver values. The Boston and Checkmate are the only two deposits in that part of the country that we have heard of that carries gold. These are deposits where the main ore body did not quite come to the surface, but the signs are there for the experienced man to read.

When looking at the Hanks shaft No. 1. one of the men made the remark, "I don't believe it pays to know too much when looking for a mine." The other answered, "that is just what I was thinking." In my opinion they are short on the experience.

I think the exploration work as suggested in my letter of January 29, to Mr. Johnson, copy enclosed, is the logical exploration program.

We want to make a mine out of this, and it cannot be done with the surface workings proposed by the Reno office.

I am asking for a re-examination by some one of experience, and without Mr. Gentry, also that they go to the Boston mine for a comparison of deposits before rendering a decision.

If this could be done without any knowledge of the Reno office, I think it would be better, and would give you a chance to check on the engineering ability we are expected to accept. If more proof is needed it can be readily pointed out.

The Boston and Checkmate veins are strictly replacements in Limestone with no quartz, granite, rhyolite or other dikes protruding to indicate a break there, altho granite is near. Consequently the engineers considered it merely stain from someplace, as one of them said, "a little copper can stain a lot of country," but such is not the case here.

I am enclosing a small piece of ore from the hundred foot level of the Boston, to show type of ore found at a little depth, and the Checkmate vein should be about the same, only a much larger deposit.

Very truly yours,

L. W. Whitney

November 4, 1952

copy

Mr. L. W. Whitney
Meadows, Idaho

Dear Sir: Re: Arizona Mining Claims, Elko Co., Nev.
Docket No. DMEA-2554 (copper)

Replying to your letter of October 28, 1952 requesting information on tentative proposals for the exploration of the Arizona vein and the Hanks vein:

The following proposals have been made for the exploration of your property:

1. Clean out and sample the Arizona shaft, drift 50 feet east and 50 feet west on the vein and crosscut 50 feet.

2. Clean out and sample the Hanks (No. 3) shaft, drift east and west from the bottom of the shaft a total of 150 feet, and raise 25 feet on the best showing.

Each phase should be contingent upon finding ore during the preceding phase.

This program could be completed in about five months and is estimated to cost $13,875.48. Bureau of Mines sample 342, taken in the bottom of the dozer cut, assayed 1.45% copper, 0.01 ozs. gold, and 1.80 ozs. silver.

We trust the above information will answer your questions and refresh your memory relative to the proposals for exploration work as discussed with you at Contact, Nevada on the afternoon of September 1, 1952.

The Executive officer of DMEA also considers that Form MF-203, "Owners Consent to Lien" should be furnished by you, covering the following claims:

Bessie H. Wootten for the Arizona claim
T. J. Canavon for the Paddy claim
B. A. Hanks for the Morenci claim

Seven copies of the "Owners Consent to Lien", signed by the above owner of each claim, should be furnished to this office as promptly as possible. For your convenience, we are enclosing 23 copies of the Form MF-203. One copy should be retained by each owner of the above claims for their files.

Very truly yours,

A. C. Johnson, Chief
Mining Division
Region III

Encls.

Carbon copy

Meadows, Idaho
January 18, 1953

Mr. A. C. Johnson
Chief Minning Division, Region 3.
Reno, Nevada

Dear. Mr. Johnson;

In reply to your communications regarding form 203, which are in effect, duplicates of form 202 filed with application, would like the following information

In your engineers recommended exploration, what does he expect to prove by this operation that is not already proved by existing shafts?

Also would like a detailed cost of each item, same as I am required to furnish in application.

The money expended seems to me to be a duplication of work already preformed and results would not be such that anything tangible would be accomplished towards the development of a mine.

The Paddy Claim is not affected by this proposed work and is owned separately to the other claims so cannot see where it would be necessary to get release on it.

However this amount expended on the Paddy tunnel would crosscut the Paddy ore body at good depth.

It would also open up the Checkmate vein to a point where your engineers might take a different attitude toward it.

Yours truly

C.C. sent to San Francisco

January 23, 1953

Copy

Mr. L. W. Whitney
Meadows, Idaho

Dear Mr. Whitney:

This will acknowledge your letter of January 18 in which you posed some questions relative to the exploration work that has been recommended for your Arizona mining claim in Elko County, Nev.

In my letter of November 4, I informed you of the work that was contemplated for the exploration of your property which consists of:

1. Clean out and sample the Arizona shaft, drift 50 feet east and 50 feet west on the vein and crosscut 50 feet.

2. Clean out and sample the Hanks (No. 3) shaft, drift east and west from the bottom of the shaft a total of 150 feet, and raise 25 feet on the best showing.

The examining engineers believe that this exploratory work was warranted to test lateral extent and downward continuity of the orebodies that were mined from the Arizona and Hanks shafts.

The exploratory work outlined would determine if there is sufficient copper ore for a commercial venture. The DMEA program is for the purpose of finding ore and is not meant to be in the nature of a development loan for production. There is enclosed a booklet "The Defense Minerals Exploration Program" for your information that may clarify the program for you.

If the exploratory work that has been outlined does not meet with your approval and you do not believe that it will effectively explore the property, it is suggested that the application be cancelled. In the event that the application is cancelled, it will be appreciated if you will notify this office.

The Owners Consent to Lien on these claims are necessary be ore the Defense Minerals Administration can allow you to conduct exploration work on any of these claims.

Very truly yours,

A. C. Johnson, Chief
Mining Division
Region III

Encl.

copy

Meadows, Idaho
January 29, 1953

Carbon copy

Mr. A. C. Johnson, Chief
Mining Division
Region III.

Re: Docket DMEA-2554(Copper)
Arizona Mining Claims
Elko Co., Nevada.

Dear Mr. Johnson:

In your letter of Jan. 23, you did not tell me why form 202, which accompanied the application is not an Owners Consent to Lien, which was the form required at that time.

I am not interested in your proposed development, for several reasons.

1. The existing shafts show commercial ore bodies, and much of the money spent would be duplication of work already done.

2. Your proposed work is the most expensive way possible for exploration, altho you did not give a breake down of proposed work and costs, as I ask for, I know this to be so.

3. As you stated, an exploration loan is not for the purpose of development, however, when the exploration can be done in a way so something of value will be left for future development, it should be given serious consideration.

I am not withdrawing my application for loan, as you suggest, but ask, before final decision by your department is given that,

1. The Checkmate Vein be examined by an engineer that has had experience and has an understanding of a (Bleached ore body).

Your engineers said, when examining the vein, that it was a type of ore they had not seen before and did not know what to expect from it.

I ask them to go about 15 miles with me, to another mine that has the same type of ore, where they could see it at some depth, but they did not think they had time.

The surface showing is not near as good as on the Checkmate vein, yet opens to a good deposit of over 3 % copper.

The engineers thought the Checkmate vein, to be a series of parallel veins which would probably not ever come togather. The same conditions exist

at the other mine, yet not far below the surface all goes into a large body of mill ore.

2. I suggest that the tunnel already started, to crosscut the Checkmate vein, be run far enough to prove or disprove our theory, and if we are right, to extend the tunnel as applied for in application.

3. If our theory proves right, a large body of mill ore will be opened up, and at the same time will be deep enough under the Hanks, and Arizona veins to be in the secondary enrichment, as both veins show some leeching. There probably would have to be some cross cutting to reach these veins.

4. I suggest that this is a practical exploration program, with a good chance of success, also that the cost of exploration will not be wasted as the same tunnel can be used for future work.

Very truly yours,

L. W. Whitney

Meadows, Idaho

Carbon Copy

February 17, 1953

Mr. L. W. Whitney
Meadows, Idaho

Copy

Dear Mr. Whitney:

Re: Docket DMEA-2554 (Copper)
Arizona Mining Claims
Elko County, Nev.
-this should have been 29. they made a typing error.

Replying to your letter of January 19 relative to exploration on your Arizona Mining Claims in Elko County, Nev.:

Under date of November 4, forms MF-203, Owner's Consent to Lien were furnished you. These forms were sent to you as it was our understanding that you had not furnished them with your original application.

The Mining Division of Region III are not proposing an exploration project for your property. The examination that was made by an engineer from this office and a geologist from the U.S. Geological Survey were in agreement that the work that you proposed did not offer possibilities of making a significant discovery.

The statement that you make in your letter: "The existing shafts show commercial ore bodies, and much of the money spent would be duplication of work already done." If this statement is true, exploration work should not be done, as it would come under the heading of 'development work'.

The examining engineer from my office has also informed me that he was unable to get down to the bottom of the shaft and therefore is unable to verify the statements that you have made. That is one of the reasons that he has proposed that the shaft be cleaned out to enable them to sample any ore that might be present. The particular reasons for considering the rehabilitation of the Arizona and Hank shafts were to delineate any orebodies that might be found and it was considered to be the quickest and cheapest method of exploration.

In answer to your item 3. Careful consideration has been given to your proposed exploration work and the conclusions that you have drawn are not logical, as the examining engineer and geologist did not see any surface evidence that would lead to a conclusion that an orebody would be found at depth.

I do not believe that my engineer or the geologist from the U.S. Geological Survey made a statement to the effect that when they examined the Checkmate Vein that they had not seen that type of ore and they did not know what to expect from it. You also stated that you had asked them to visit a property that was 15 miles distant from the place that you were asking for exploration assistance. I do not believe that the property that you intended to show these gentlemen would have any bearing on the property you consider for exploration work.

The Mining Division of Region III does not have any objection on any work that you do with your own funds on the Checkmate vein. The engineer of the Bureau of Mines and the geologist of the U.S. Geological Survey are not recommending expenditure of Government funds for work that is highly speculative.

Very truly yours,

A. C. Johnson, Chief
Mining Division
Region III

Copy

File Copy

Meadows, Idaho
February, 7, 1953

Mr. H. C. Miller
Executive Officer
DMEA Field Team, Region III.

Re: Docket DMEA- 2554 (Copper)
Arizona Mining Claims
Elko, Co. Nevada

Dear Mr. Miller;

Your letter of Feb. 3d saying my application for loan was being processed in Washington office was a surprise, as I supposed it was still in the Reno office.

We sent Form 202, Owners Consent to Lien with application. Will you please tell me why a duplication with Form 203 is wanted? I have asked the Reno office and received no answer to my question.

If the loan is being processed according to plans recommended by the investigating engineers, (opening 2 shafts and dirfting from there), I am not interested, as the possible gain in knowledge, and ore opened up does not justify the expense involved.

Am enclosing copy of letter to Reno office.

When the engineers were investigating the Checkmate vein they said it was a type of ore they were not familiar with and did not know what to expect of it, so would have to turn it down.

I ask them to go about 15 miles to the Boston mine where they could see the same type of outcrop, opened at some depth, but they did not think they had time.

The Checkmate vein is a Bleached ore showing, with some low grade ore outcrops. Am enclosing sketch showing approximate showing and lay of veins.

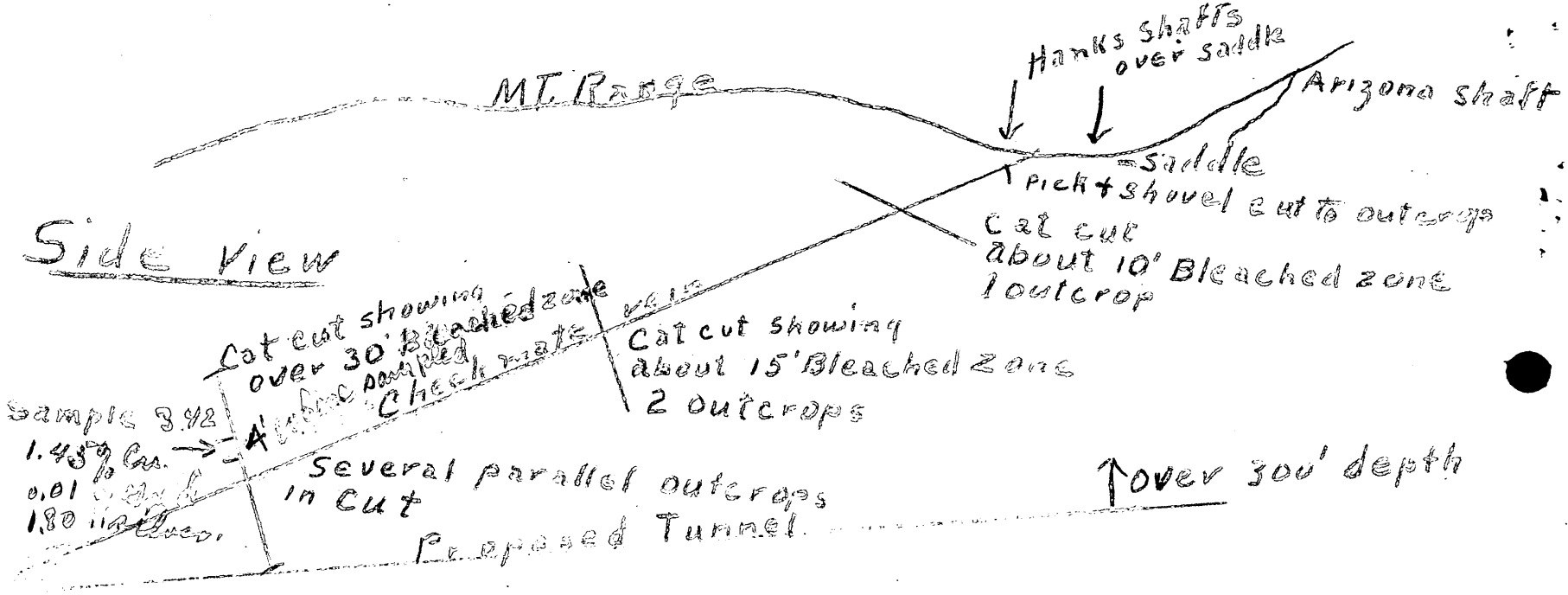
The Boston outcrop is the same except much smaller showing, and it would be hard to get a surface sample of 1% copper but opens to a large body of over 3% copper average. Is same type of deposit and ore, as the Checkmate vein, and there is good reason to believe the Checkmate vein will open up the same way.

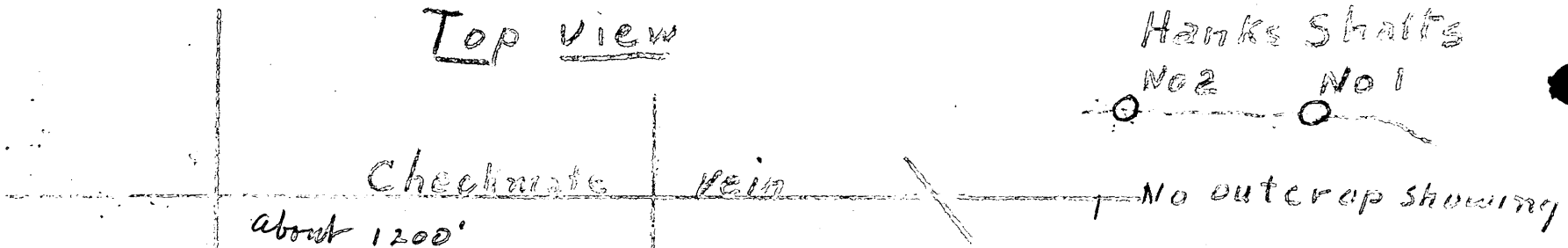
I think that, due to the admitted inexperience of the investigating engineers, we are entitled to have this investigated by an engineer that understands Bleached showings and what to expect of them, before final action on the application.

Very truly yours

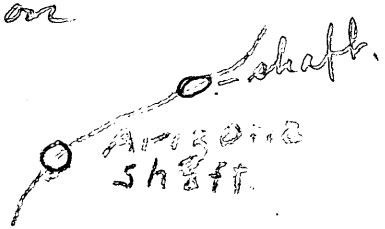
L. N. Whitney
Meadows, Idaho

Rough Sketch of Proposed Work





vein extends on thru the Paddy to East as traced by a Fisher M-scope, about 2600' of vein. This extends on across country to East but showing not so good.



L. W Whitney

500

FILE COPY
SURNAME:

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

MAY 2 8 1953

Mr. L. W. Whitney
Meadows, Idaho

Re: Docket No. DMA 2554 (Copper)
Arizona Mining Claims
Porter Mining District
Elko County, Nevada

Dear Mr. Whitney:

This will refer to your letter of May 16, 1953, addressed to Mr. Ernest Wm. Ellis.

As indicated in Mr. Ellis' letter to you of April 27, this Administration cannot consider exploration projects which are not endorsed both by the Field Team and the Applicant.

We suggest that you communicate with Mr. H. C. Miller, Executive Officer, DMA Field Team, Region III, 1012 Flood Building, 870 Market Street, San Francisco 2, California, with a view of working out an exploration program which will be mutually acceptable.

Sincerely yours,

C. O. Mittendorf

Administrator

WRGriswold/hmj
(5/26/53)
CC to: Docket
Admr. R. File
Operating Committee
Base Metals Division
Mr. A. C. Johnson, Reno, Nevada
Mr. C. H. Johnson
Mr. Kinkel
Chron.
Region III (2)

Samples submitted with L. W.Whitney's ltr. of 5/16 are in the back of the file drawer in Rm. 4058.

FILE COPY
SURNAME:

Signed
Selfridge

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

MAY 2 8 1953

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

Re: Docket No. DMA 2554 (Cooper)
L. W. Whitney
Arizona Mining Claims
Porter Mining District
Elko County, Nevada

Dear Mr. Miller:

We are attaching two copies of a letter received from Mr. L. W. Whitney, regarding the above docket, together with a copy of our reply.

There has been much correspondence on this application, over a year's period of time, and it appears that the Applicant maintains the position of insisting upon driving a 1,500-foot adit, regardless of Government recommendations to the contrary. We desire at all times to give serious consideration to an Applicant's desires and opinions but, nevertheless, since we are considering the expenditure of Government funds, it would be completely out of order to endorse a project which we consider to be unsound from geological and engineering standpoints.

We would suggest, therefore, that you allow a reasonable time for the Applicant to submit a revised proposal, and if this is not done, to advise him that we must place his application on the inactive list, due to his refusal to accept the Government approved project.

Sincerely yours,

George C. Selfridge (JHB)

Chairman, Operating Committee

Enclosures

APPROVED:

J. H. Hedges (JHB)
Member, Bureau of Mines

A. R. Kinkel, Jr. (JHB)
Member, Geological Survey

Mr. A. C. Johnson, Reno, Nev.
Mr. G. H. Johnson
Mr. Kinkel
Chron.

WRGriswold/hmj (5/26/53)
CC to: Docket
Adm. R. File
Op. Committee
Base Metals Division

COPY

Meadows, Idaho
May 16, 1953

Ernest Wm. Ellis, Chief
Rare and Miscellaneous Metals
Division

Dear Mr. Ellis:

Re: Docket No. [illegible]-2554 (Copper)
Arizona Mining Claims
Porter Mining District
Elko County, Nevada

Replying to your letter of April 27, I am not withdrawing my application for loan, as Mr. Johnson has proposed that I do, but can see no point in me trying to work out a deal with him, as I think you will agree after reading his letters of January 23, and February 17, 1953, copies of which are enclosed.

To do the surface development they have proposed would be mostly a waste of tax payers, and our money, as these are ore chutes and the proposed drifting would be far enough to get out of the high grade, into low grade ore but not far enough to get to the next ore chutes.

Several prominent engineers, with experience, have examined this property in the past, and the method we proposed in the application, was based on their advice. I think their opinions are more reliable than the opinion of the investigating engineer from the Reno office.

Mr. Smith from the Salt Lake office explained his opinion to me, but also said the Checkmate vein was a different formation than any he had seen and did not know just what to expect, but would have to turn it down. He was honest in his statements, and realized that no one could look at ore and be positive of his judgement. He and Mr. Centry called it an altered lime. It is true there is altered lime there but if they had of had this ore analized they would have found it to be a very hard silicious primary ore, as the 1.45% Cu. in sample 342 would indicate.

The ore in the Boston mine where I asked them to go for a comparison, is exactly the same type of deposit only much smaller. It has been developed to a depth of 200 ft. and 500 ft. in length and has a vein from 10 to 40 ft. in width, averaging over 3% Cu. with corresponding gold and silver values. The Boston and Checkmate are the only two deposits in that part of the country that we have heard of that carries gold. These are deposits where the main ore body did not quite come to the surface, but the signs are there for the experienced man to read.

When looking at the Hanks shaft No. 1, one of the men made the remark, "I don't believe it pays to know too much when looking for a mine." The other answered, "that is just what I was thinking." In my opinion they are short on the experience.

I think the exploration work as suggested in my letter of January 29, to Mr. Johnson, copy enclosed, is the logical exploration program.

We want to make a mine out of this, and it cannot be done with the surface workings proposed by the Reno office.

I am asking for a re-examination by some one of experience, and without Mr. Gentry, also that they go to the Boston mine for a comparison of deposits before rendering a decision.

If this could be done without any knowledge of the Reno office, I think it would be better, and would give you a chance to check on the engineering ability we are expected to accept. If more proof is needed it can be readily pointed out.

The Boston and Checkmate veins are strictly replacements in limestone with no quartz, granite, rhyolite or other dikes protruding to indicate a break there, altho granit is near. Consequently the engineers considered it merely stain from someplace, as one of them said, "a little copper can stain a lot of country," but such is not the case here.

I am enclosing a small piece of ore from the hundred foot level of the Boston, to show type of ore found at a little depth, and the Checkmate vein should be about the same, only a much larger deposit.

Very truly yours,

/s/ L. H. Whitney

Gruendel
Betty

DEPT. OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 15 1953

Office of
DMEA Field Team
Region III

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

June 10, 1953

Docket

Mr. L. W. Whitney
Meadows, Idaho

Re: Docket DMEA-2554 (Copper)
Arizona Mining Claims
Porter Mining District
Elko County, Nevada

Dear Mr. Whitney:

By letter dated May 28, 1953, Mr. C. O. Mittendorf, Administrator, Defense Minerals Exploration Administration, suggested to you that you communicate with me with a view of working out an exploration program which will be mutually acceptable. To date I have heard nothing from you.

I note from your application and subsequent correspondence that you are insisting upon driving a 1500 foot adit regardless of Government regulations to the contrary. Although we desire at all times to give serious studied consideration to an applicant's desires and opinions, nevertheless, as we are considering the expenditure of Government funds, as well as desiring to explore for new bodies of ore with some reasonable assurance of finding them, it would be completely out of order to endorse a project which we consider to be unsound from geological and engineering standpoints.

If I do not hear from you by June 20, I will assume that you are no longer interested in a DMEA loan and will place your application on the inactive list due to your refusal to accept the Government's approved project.

Sincerely yours,

H. C. MILLER

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

Copy to: DMEA, Washington, D. C.
A. C. Johnson, Reno
E. H. Bailey, USGS

Office of
DMEA Field Team
Region III

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

June 10, 1953

Mr. L. W. Whitney
Meadows, Idaho

Re: Docket DMEA-2554 (Copper)
Arizona Mining Claims
Porter Mining District
Elko County, Nevada

Dear Mr. Whitney:

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Sincerely yours,

H. C. MILLER

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

Copy to: DMEA, Washington, D. C.
A. C. Johnson, Reno
E. H. Bailey, USGS

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

Office of
Executive Officer
DMEA Field Team
Region III

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

June 19, 1953

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 DMEA-2554 (Copper) - L. W. Whitney
Arizona Mining Claims, Porter Mining District
Elko County, Nevada

With reference to your letter of May 28, 1953, we wrote subject applicant on June 10, copy of which letter was sent to your office. A reply, dated June 14, 1953, was received in this office today from Mr. Whitney, and two copies are enclosed herewith for your information.

Kindly advise what action, if any, you wish us to take in connection with this application.

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

Attachment

Copy to: E. H. Bailey, USGS
A. C. Johnson, Reno

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
JUN 23 1953

C
O
P
Y

Meadows, Idaho
June 14, 1953

Mr. H. C. Miller
Executive Officer
DMEA Field Team Region III

Re: Docket DMEA-2554 (Copper)
Arizona Mine Claims
Porter Mining District
Elko County, Nevada

Dear Mr. Miller:

Regarding your letter of June 10, 1953, I could see no point in me writing to you about the program, as I had done so once before, receiving a nice brushoff.

Regarding the 1500 ft. addit as applied for in origional application, you and the Reno Office have deliberately mis-interpreted what I ask for, instead of the boy scout program of surface work as proposed by Mr. Gentry.

I ask that a crosscut be made to cut the Checkmate vein, (which your engineers do not recognize) (but has been recognized by several prominent engineers who knew their business), and if this proves the existence of this vein as we contend, then to follow this vein as proposed in origional application, which would serve the two fold purpose of opening a large body of mill ore, and at the same time put us far enough under the Arizona and Morencia shafts so we should be in the secondary zones, also would have enough ore above to be worth while. Some cross-cutting would probably have to be done to reach these veins.

You say you desire to explore for new ore bodies, which is what we want to do. The shafts have been opened enough to know that the ore goes on down and has good ore in them, and altho the men were not to the bottom of the shafts on the Morencia, they were far enough to see a good wide vein going on down, and to get samples that were commercial ore.

You say you have to consider expenditure of Government funds, but you are willing to spend them on shallow workings that has very little chance of opening enough ore to pay it back. We are not going to spend our money on this type of work.

The Checkmate vein is strictly a replacement in lime type of deposit, and bears no relation to the Morencia or Arizona, but surface indications are exact duplicate of the Boston mine which is opened enough to show what to expect.

I am not withdrawing application.

Very truly yours,

/s/ L. W. Whitney

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

Office of
Executive Officer
DMEA Field Team
Region III

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

June 19, 1953

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 DMEA-2584 (Copper) - L. W. Whitney
Arizona Mining Claims, Porter Mining District
Elko County, Nevada

With reference to your letter of May 28, 1953, we wrote subject applicant on June 10, copy of which letter was sent to your office. A reply, dated June 14, 1953, was received in this office today from Mr. Whitney, and two copies are enclosed herewith for your information.

Kindly advise what action, if any, you wish us to take in connection with this application.

S. RICKER

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

Attachment

Copy to: E. H. Bailey, USGS
A. C. Johnson, Reno

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P
Y

Meadows, Idaho
June 14, 1953

Mr. H. C. Miller
Executive Officer
DMEA Field Team Region III

Re: Docket DMEA-2554 (Copper)
Arizona Mine Claims
Porter Mining District
Elko County, Nevada

Dear Mr. Miller:

Regarding your letter of June 10, 1953, I could see no point in me writing to you about the program, as I had done so once before, receiving a nice brushoff.

Regarding the 1500 ft. addit as applied for in origional application, you and the Reno Office have deliberately mis-interpreted what I ask for, instead of the boy scout program of surface work as proposed by Mr. Gentry.

I ask that a crosscut be made to cut the Checkmate vein, (which your engineers do not recognize) (but has been recognized by several prominent engineers who knew their business), and if this proves the existence of this vein as we contend, then to follow this vein as proposed in origional application, which would serve the two fold purpose of opening a large body of mill ore, and at the same time put us far enough under the Arizona and Morencia shafts so we should be in the secondary zones, also would have enough ore above to be worth while. Some cross-cutting would probably have to be done to reach these veins.

You say you desire to explore for new ore bodies, which is what we want to do. The shafts have been opened enough to know that the ore goes on down and has good ore in them, and altho the men were not to the bottom of the shafts on the Morencia, they were far enough to see a good wide vein going on down, and to get samples that were commercial ore.

You say you have to consider expenditure of Government funds, but you are willing to spend them on shallow workings that has very little chance of opening enough ore to pay it back. We are not going to spend our money on this type of work.

The Checkmate vein is strictly a replacement in lime type of deposit, and bears no relation to the Morencia or Arizona, but surface indications are exact duplicate of the Boston mine which is opened enough to show what to expect.

I am not withdrawing application.

Very truly yours,

/s/ L. W. Whitney

Asphalt Paving * Road Oiling * Cement Work * Bridge And Building Construction

A. D. Stanley
C. M. Ehlen

STANLEY & EHLEN

Contractors

P. O. Box 1605 * Phone 4619

2901 Main St. * Boise, Idaho

March 18, 1952

L. W. Whitney
Meadows, Idaho

Dear Sir;

The writer has personally known Mr. Blaine A. Hanks of Boise, Idaho, for the past 25 years. During that time, Mr. Hanks has made a number of examinations of mining properties for me and has made excellent reports on his surveys. During the early 1930's, I was associated with Mr. Hanks on several short term options to purchase the Monarch mine on Atlanta Idaho contract and the options were relinquished. Mr. Hanks located this property and his early reports of the value have been verified in every detail in subsequent operations by various companies at the mine.

Accompanied by other engineers, I have visited the Boston and Arizona Mines in the Contact, Nevada area, and have seen the development under Mr. Hanks' management of these properties. My engineering advice was that the Boston development at a cost of around $20,000.00 was exceedingly low for even the period in which the work was carried out. An independent engineering report on the Boston and Arizona mines indicated possibilities of large high grade ore bodies that could be profitably developed and mined. Mr. Hanks' handling of these properties would indicate excellent mining judgement and operation on the scale attempted at the time the properties were active.

To my personal knowledge and from information available among the mining people of Southern Idaho, Mr. Hanks has always shown calm and even cold-blooded appraisals of mine values. He is known to be conservative, honest and above board in his business transactions.

Yours Truly,

C. M. Ehlen

CME/s

Agreement

Between L. A. Cable, of Canada, owning party of the first part to, and L. W. Whitney of Madison, Lake County of the second part to,

Witnesseth:

Whereas the party of the first part is the owner of the Cascade Mining claim, situated in the [illegible] Mining District, the [illegible] which is one of a group of three claims, consisting of the Cascade and Lady, (unpatented) and the Blue Mountain claim, both located on the Alpena lines. The party of the first part agrees to sell the and option on the below described claim, in consideration of $[illegible] to be paid from a royalty of the [illegible] to the owner, Mr. [illegible]

Bessie A Wooster

Also, an option on the Lady claim for $10,000.00 to be paid, a royalty of 20% gross smelter returns, [illegible] charge, or by a transfer of stock in the mine, which is decided to be a better way, from the owner, L. A. Cable, of [illegible].

The lease and option on the Blue claim shall be for a term of five years, unless sooner sold to the said L. W. Whitney, and under normal conditions is to work to [illegible], in such options, [illegible] performed and taxes paid.

The party of the third [illegible] include the [illegible] claim in the deal, without royalty, [illegible] as shown in the map for this deal the [illegible] will be included in the deal without further compensation to the party of the first part.

The party of the second part agrees to extend the lease [illegible] which shall be interpreted [illegible] to [illegible] also to defray expenses incidental to working out one vein the mill one will pay its own cost of development.

Provided however, that the party of the second part are discontinue

this work at any time after reaching the vein, if in his judgement he considers it unprofitable.

It is further agreed by the party of the first part, that said party of the second part shall be reimbursed for all moneys expended by him, by, at such a time from net profits accruing from this operation, that is in amount not to jeopradize the regular mining operation. When the second party has been fully compensated for his expenditures, all profits and options shall be held equally between both parties.

It is further agreed that those options, claims and privileges be placed in a small company for the purpose of defining their respective interests. The party of the first agrees to supervise the operation. The party of the second agrees to act as treasurer, and will attend to royalty payments, and receipts of smelter settlements.

It is further agreed by both parties to make application for government loan for the purpose of extending the Greenmate tunnel 1200 ft. and such cross cutting as may be deemed necessary. Amount of loan to be applied for is ~~$50,000.00.~~

It is further agreed that any new claims filed on, in connection with the Arizona mine, shall become a part of, and belong to the company.

Time is the essence of this agreement and each and every clause herein, and this contract shall be binding upon and inure to the benefit of the parties hereto and their respective heirs, successors, administrators, and assigns.

IN WITNESS WHEREOF, the parties hereto have set their hands and seals to triplicates hereof on this 21 day of January, 1952.

Signed L. W. Whitney

B. A. Hanks

Notary Public for
My Commision Expires

LEASE and OPTION

Made and entered into this 21th day of January, 1952 by and between Bessie M. Wootton of Berkely Alemeda County State of California, party of the first, hereinafter refered to, as the Optionor, and L. J. Whitney, of Meadows, Adams County State of Idaho party of the second, hereinafter refered to as the Optinee.

Witnesseth:

That the Optionor is the owner of the Arizona Patented Mining Claim located in the Porter Mining District, Elko County, Nevada U. S. Patent survey no. 1615-Lot 37.

The Optinee desires a lease and option to purchase said property, under the terms and conditions hereinafter set forth, now, therefor, for, and in consideration of five ($5.00), receipt of which is hereby acknowledged, and the promises and covenants hereinafter contained, by the respective parties hereto to be kept and performed, it is mutually covenanted and agreed by the parties hereto, as follows;

1. Optinor gives and grants to Optinee, the exclusive right and option to purchase the before mentioned Arizona Patented Mining Claim, premises and property for the sum of Twenty thousand dollars ($20,000.00) lawful money of the United States, to be paid under and upon the following terms.

A royalty of ten per cent (10%) upon all smelter, mill settlements or from any sale of ore, concentrate or bullion that may be produced this is based on the gross value less, smelter charges, said royalty shall apply on the purchase price due hereunder.

All such payments shall be paid within ten days of receipt of statements together with a copy of said transaction and mailed direct to the Optionors address, 2591 Donvonne [illegible], Apartment [illegible], Los [illegible], California or to her designee upon an Optionor's request. Prior to continue until the full purchase price is [illegible] paid, or this option relinquished, the Optionee shall have the right to pay [illegible] any part of the purchase price at any time, in [illegible] of sums paid shall be the life of this agreement, upon the [illegible] of all delivery [illegible] of all property.

2. This option shall be for [illegible] year from date, under current conditions that all terms, provisions and covenants are complied with.

3. Optionee shall have until [illegible] 1972, to [illegible] said property.

4. Optionee shall perform [illegible] of work upon said property [illegible] the life of this agreement beginning July 1, 1972.

5. Optionee shall have [illegible] to said mining claim, premises and property, [illegible] surface, upon a portion of this agreement, and may certain [illegible] on exploration and development work on said [illegible] operations thereon, but all work must be done in a manner [illegible] and rules and regulations. Optionee shall have the right to [illegible] as long as he shall not be in default of any and all of the terms of this agreement by him to be kept and performed.

6. The development work shall be performed as hereinbefore agreed upon by the party of the second part [illegible] work on account of conditions beyond the control [illegible] such matters as strikes, fires and acts of God.

7. The Nevada laws as to [illegible] insurance shall be strictly complied with. Before said employees are placed [illegible] by Optionee, also the safety

regulations required by the [illegible] of Nevada shall be strictly complied with by the Optionee.

8. Optionor or his accredited [illegible] shall have access to all [illegible], records, and mine workings at reasonable times for the purpose [illegible] order.

9. Optionee will pay all claim [illegible], supplies and [illegible] costs incurred while working hereunder, and hold said Optionor harmless from all claims for labor, materials or any expenditures contracted by him, and shall keep proper notice [illegible] on the premises at all times to this effect.

10. This agreement is intended to be a lease and option, and Optionee may forfeit his rights hereunder [illegible] the property to the owner by giving them thirty days written notice to that effect. He will also have thirty days to remove his chattels, [illegible].

In case of such [illegible] all royalty payments that may have been made or made or [illegible] shall be forfeited and accepted by the Optionor as liquidated damages for the use of the property.

11. All notices hereafter to be given to first party hereunder shall be considered as having been [illegible] to be sent by ordinary mail addressed to 2501-Convention Tower, Reno, California, and notices given to second party shall be [illegible] have been made when sent to him by registered mail addressed [illegible] office Meadows, Idaho.

12. Optionee further agrees [illegible] said time due.

13. It is further agreed that [illegible] buildings, development work, tracks, rails and other permanent improvements and fixtures placed upon said property by the Optionee (as distinguished from machinery, equipment and personal property) shall accrue and be considered a part of the said mining property and shall revert to and remain the property of the Optionor in the event of any termination or [illegible] of this lease and option.

14. If the Optionee shall fail to pay the said purchase price at the time and in the manner as herein provided or shall fail to keep and perform any of the other terms and conditions hereof on his part to be kept and performed, then the Optioner may, at his election, terminate his agreement by giving thirty days prior notice in writing to the Optionee of his intention so to do. Provided, however, that if within said thirty days period after the giving of such notice, the Optionee shall such payment or correct such other default, the agreement shall then be considered re-instated and in good standing. Thereafter, upon failure of the Optionee to correct the same within said [illegible] period, this option to be terminated and of no further and [illegible] of Optionee hereunder forfeited and in the event of such termination, all [illegible] the Optionee made on said purchase price (exclusive of interest) shall remain the property of the Optioner and he [illegible] as liquidated damages for the failure of Optionee to perform the terms of this contract and Optioner shall be entitled to forthwith regain the possession of said premises, and any deed and abstract deposited for escrow shall be returned to him, provided that such termination shall in no way release the Optionee from his obligation and liability to pay the balance in full all liens in indebtedness incurred up to the time of such termination or to account for any and over all royalties accrued or to accrue from or on taken from such property up to such time.

15. Time is the essence of this agreement and each and every clause herein, and this contract shall be binding upon and inure to the benefit of the parties hereto and their respective heirs, assigns, administrators, and assigns.

IN WITNESS WHEREOF, the parties hereto have hereunto set their hands and seals in triplicate this the day and year first herein above written.

Jessie H. Hotton
Optioner

L. W. Whitney
Optioneo

STATE OF IDAHO)
) SS.
County of Valley)

On this 21 day of January, 1952, before me, the undersigned, a Notary Public, in and for the said county and state, personally appeared the within named L. W. Whitney, who is known to me to be the identical person who executed the foregoing instrument, and acknowledged to me that it was his free and voluntary act.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal to triplicates on this 21 day of January, 1952.

Noel Hayhurst
Notary Public for
My Commission Expires May 6, 1953

Washington D. C.)
) SS.
COUNTY OF_____)

On this 29 day of January, 1952, before me, the undersigned, a Notary Public, in and for the said county and State, personally appeared the within named Jessie H. Hotton, who is known to me to be the identical person who executed the foregoing instrument, and acknowledged to me to be her free and voluntary act.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, to the triplicates hereof on this 29 day of January, 1952.

Byrd C. Reid
Notary Public for
My Commission Expires 11/14/55

Made and entered into this 7 day of February, 1952 by and between T. J. Canavan of Portland, Multnomah Co. Oregon, party of the first part, hereinafter referred to, as the Optioner, and D. A. Hanks Contact, Nevada State of Nevada party of the second part, hereinafter referred to as the Optionee.

Witnesseth;

That the Optioner is the owner of the Muddy, unpatented mining claim located in the Porter Mining District, Nye County, Nevada.

The Optionee desired a lease and option to purchase said property, under the terms and conditions hereinafter set forth, now, therefore, for, and in consideration of Five Dollars (5.00), receipt of which is hereby acknowledged, and the [illegible] and covenants hereinafter contained, by the respective parties hereto to be kept and performed, it is mutually covenanted and agreed by the parties hereto, as follows.

1. Optioner gives and grants to Optionee, the exclusive right and option to purchase the before mentioned Muddy Mining claim, premises and property for the sum of Ten thousand dollars (10,000.00) lawful money of the United States, to be paid under and upon the following terms.

A royalty of ten per cent (10) upon all smelter, mill settlements or from any sale of ore, co concentrate or bullion that may be produced, this is based on the gross value, less smelter charges, said royalty shall apply on the purchase price due hereunder.

All such payments shall be paid within ten days of receipt of settlements together with a copy of said transaction and mailed direct to the Optioners address, 1916 N.E. 42 Ave., Portland, Oregon or to his designated agent as Optioner may request. This to continue untill the full purchase price has been paid, or this option relinquished, the Optioner shall have the right to pay all or any part, of the purchase price at any time, less royalties paid during the life of this agreement, upon the receipt of the full amount due under this agreement Optioner will deliver a quit claim deed for said property.

2. This option shall be for the period ten (10) years, under any and conditions that all terms, provisions and covenants are complied with.

3. Optioner shall have until July 1, 1972, to begin work on said property.

4. Optioner shall perform or cause to be performed at least 30 days of work upon said property during each year the life of this agreement beginning May 1, 1972.

5. Optioner shall have immediate right of possession to said mining claims, premises and property, and to enter upon, upon execution of this agreement, and may continue to prospect, explore and carry on development work or mining and milling operations thereon, but all such must be done in a manner consistent with good mining practice. Optioner shall have the right to continue in such possession as long as he shall not be in default of any act or the terms of this agreement to be kept and performed.

6. The development work shall be performed at Optioners expense unless the party of the second part be delayed or discontinue work on account of conditions beyond the control of Optioner or Government actions as strikes, fires and acts of God.

7. The Royalty laws as to contingent interests shall be strictly complied

[illegible] before said employee [illegible] by [illegible] also the [illegible] regulations [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible]

[illegible]

✓ 10. [illegible]

[illegible]

11. [illegible] 1916 [illegible] [illegible]

12. [illegible] each [illegible] before July 1, each year.

✓ 13. [illegible] other payments [illegible] property by the [illegible] personal property) shall hereon not be considered a [illegible] of the said

mining property and shall revert [illegible] the property of the Optionee in the event of any cancellation or abandonment of this lease and option.

14. If the Optionee shall fail to pay the said purchase price as the same is in the manner herein provided to be paid, and perform any of the other terms and conditions [illegible] on the Optionee [illegible], then the Optionee may give thirty days prior notice in writing to the Optionee of his intention so to do. Upon the expiration of said thirty days period after the giving [illegible] the Optionee shall [illegible] payment or performance of [illegible], then upon and after the [illegible] the Optionee to exercise [illegible] will then be terminated [illegible] forfeited and in the event of [illegible] made upon said purchase price [illegible] on the property of the Optionee and [illegible] of Optionee to perform the [illegible] shall be entitled to [illegible] deed and [illegible] provided that such termination [illegible] obligation and liability to pay [illegible] moneys incurred up to the time [illegible] pay over all expenditures [illegible] property up to such time.

15. This is the covenant of the parties hereto and shall and may [illegible] and this contract shall [illegible] for the benefit of the parties hereto and their respective [illegible], administrators, and assigns.

IN WITNESS WHEREOF, the parties hereto have set their hands and seals in triplicate hereof the day and year first hereinabove written.

T. J. Canavan
Optionor

B. A. Hanks
Optionee

STATE OF OREGON)
) SS.
County of Malhuer)

On this 11 day of February, 1952, before me, the undersigned, a Notary Public, in and for the said county and state, personally appeared the within named B. A. Hanks, who is known to me to be the identical person who executed the foregoing instrument, and acknowledged to me that it was his free and voluntary act.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal to triplicates on this 11 day of February, 1952.

Notary Public for
My Commission Expires 1/24/54

STATE OF OREGON)
) SS.
County of Malhuer)

On this 11 day of February, 1952, before me, the undersigned, a Notary Public, in and for the said county and state, personally appeared the within named T. J. Canavan, who is known to me to be the identical person who executed the foregoing instrument, and acknowledged to me to be his free and voluntary act.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, to the triplicates hereof on this 11 day of February, 1952.

Notary Public for
My Commission Expires 1/24/54

Assignment Of Option

The undersigned, B. A. Hanks, of Contact, Nevada, Elko Co. is the owner of an option to purchase the Paddy Mining Claim Located in the Porter Mining District, Elko Co. Nevada, under certain terms and agreements as shown in attached copy of said option and for the sum of one dollar ($1.00) and other considerations, does hereby sell and transfer the option with all rights therein to L. W. Whitney of Meadows, Idaho.

Signed B. A. Hanks (B. A. Hanks)

Dated Mar 11 - 1952

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

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

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

Not To Be Filled in by Applicant

Docket No. DMEA-2554
Metal or Mineral
Date Received 5-27-52
Amount $
Participation (Government %)

Name and address of applicant

Date

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

DMA Docket Number (if available) _____

INSTRUCTIONS

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 27 1952

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

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

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

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

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

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

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

CERTIFICATION

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

(Name of company)	By L. W. Whitney (Signature of authorized official)
4-20-52 (Date)	Lessee (Title)

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

U. S. GOVERNMENT PRINTING OFFICE 16—64067-2

N-103

1. (a) Arizona patented Claim - Morencio and Paddy located claims. Map attached showing location as to patent survey and section numbers. This development confined to the Arizona and Morencio.

(b) Lessee
Copies of options and agreements are attached hereto.

(c) Both areas are the same. Attached map shows place of beginning tunnel marked A on west end of Paddy Claim, thence on Checkmate Vein 1500 feet to a point marked B.

No liens or encumbrances of any nature on this property. Signed release of lessors are attached to this report.

2. (a) Copper
(b) Map attached

3. (a) Tunnel 1500 ft. long running in the Checkmate Vein with the object of cutting the Arizona and Morencio Veins. Total cost - $49,415.40.

(b) Can start on ten days notice. Ten months to complete the proposed work.

4. Map attached.

5. None - will require housing for camp and shop.

6. (a) None

(b)	Shop at portal	$ 421.50
	Bunk and cook houses	672.00
	Fixtures	194.00
7. (a)	None	
7. (b)	Mile road to tunnel portal	397.00
	Air compressor, engine	2,700.00
	Two drifters(Ingersoll), hose, tank and bars	932.00
	Air pipe 3" - 1500 ft.	480.00
	Rails, spikes, plates - 1500 ft	625.00
	Ties	125.00
	Powder - 6 tons	2,760.00
	Caps and fuse	386.40
	Vent pipe - 10"	160.00
	Suction Fan - 10"	125.00
	Carbide	34.00
	Mine cars - 4	148.50
	Aux. air receiver	75.00
	Fittings	20.00
	Forge, small tools, etc.	85.00
	Shovel loader - used	1,900.00
	Compensation Ins. Social Security	3,750.00
	Supervision and accounting	5,000.00
	Emergency kit	25.00
	Timber	2,100.00
	Transportation equipment to mine	400.00
	Power, gas, oil and maintenance	1,200.00

(Cont)

Forward	$ 24,715.40
Air or electric trammer	$ 1,725.00
Labor at 15.50 per foot	22,875.00
	$ 49,315.40

7. (c) 4-d cat, 1-3/4 ton pickup, 1 - 1-1/2 ton truck, Denver Gardner Compressor, 285 cu.ft. 50 h.p. International Diesel Engine. This all used equipment - rental or depreciation as allowed by the government engineers.

8. 2 miners 1.60 per hr
   2 muckers 1.40 " "
   2 shop men 1.40 " "
   1 Superintendent $450.00 per month

   If conditions warrant might be advisable to put on a bonus basis, for footage exceeding normal shift advance.

9. Assaying 190.00
   Accounting - on other list No. 7 (b)
   Power " " " " "

10. (a) $24,657.70

    (b) Yes, can furnish the amounts as required by monthly account.

11. The equipmentlisted here is quoted at used prices prevailing now for good used and reconditioned.

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA FOR USE UNDER THE DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. DMEA-2554

Date received 5-27-52

L. W. Whitney
Meadows, Idaho

Name and address of applicant

April 1 20 1952
Date

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (5) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).
   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
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3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   ☐ Owner.
   ☑ Lessee.
   ☐ Contractor.
5. Number of years in production No regular operation
   If not in production or operation, estimated date when production will begin Nov 1953
6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
L. W. Whitney	Meadows		85,000			~~10,000~~	1000
	Idaho					15,000	
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

12. Ore or Mineral Reserves:

(*a*) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves.

NF-100

1. (a) copper
   (b) Small amount silver

2. Arizona patent - Survey No. 1615, Lot 37, Morencio and Paddy locations. Arizona was formerly known as the Rochester, Morencio was the Lincoln and Paddy was the War Eagle.

   (a) 380 ft shaft
   (b) 60 ft crosscuts
   (c) 25 ft tunnels
   (d) 400 ft open cuts showing veins

3. (a) 12-1/2 miles to Henry on U.P. R.R. Westerly
   23 miles to Contact, Nevada on U.P.R.R. Northwesterly
   (b) Porter Mining District
   (c) T. 44 N., R. 64 East, Sections 22-23.
   (d) Elko County, Nevada

4. (b) Lessee

5. No regular production - several cars of ore were shipped 40 years ago. Estimated date of production - October, 1953.

6. (a) The applicant has several years experience in different mining properties in Oregon, Idaho and Nevada - Member Idaho Mining Association-Ranching at present at Meadows, Idaho.

   (b) B.A. Hanks who will supervise the work is native of Virginia City, Nevada - twenty years experience as miner, timberman, tunnel and shaft contractor and manager - past twenty five years in private practice - examination and consulting.

   References: Boise Payette Lumber Co. Boise, Idaho (letter
   C. M. Ehlen, Contractor and Machinery, Boise, Idaho (attached)
   Harry March, Secretary, Idaho Mining Association
   H.F. England Co. Oroville, California
   Ellsworth Wood, Edmonton, Alberta - West Coast Oil Co.

7. (a) These claims were located in the early 70's by prospectors Knoll and Turo. Purchased in the 80's by W. J. Hanks of Sun Creek Land & Cattle Co. formerly foreman of Con Virginia Mine in Virginia City. They have been held by Hanks' heirs from that time to the present. B.A. Hanks shipped ore from the Arizona and Morencio claims in 1910 - occasionally up to 1916. This was the only ore shipped from the property. This ore averaged 8% copper as taken from the shaft. Sorted ore ran 19%. Some of the ore was hauled by team to Wells, Nevada - sixty miles. There was no possibility of making a mining operation in those times. Smelter rates were high and copper prices erratic. In fact it was useless to attempt to develop a small copper property under existing conditions over a period of thirty years.

   The report made by Schrader U.S.G.S. Bulletin 497, where McArdle claimed to have shipped high grade copper and silver ore from this property was pure fabrication. The only ore shipped was by Hanks, and about twenty tons that was stolen off the Arizona dump. Signed B.A. Hanks

(b) The Marshall Mines, formerly the Seattle Contact, have produced over a period of years. Also Queen of the Hills, Brooklyn and Bellevue. These properties are 10 miles Northwesterly of the Arizona.

(c) There are no private reports available now. Phillip Diedesheimer of Virginia City visited the property and recommended it in 1910. An engineer, W. T. Bradley of London, England, made a report which was very favorable. There have been no attempts to do anything with the property for the past 35 years. The larger companies wanted open pit operations and the fluctuations in copper prices discouraged smaller operators. By B.A. Hanks.

8. Wayne Whitney, Lessee, Meadows, Idaho.

9. None

10. None

11. Unapplicable.

12. Maps herewith show surface veins - also vertical cross-section giving probable results with this development at ground water level which is estimated at300 to 35o feet. U.S.G.S. report No. 497 by Schrader, Pages 136, 137 and 138 gives a good report on the geology, with the exception of gangue minerals at Arizona and Morencio claims. These are limonite, kaolin, calc-spar, quartz and manganese - principal copper minerals are chalcopyrite, chrysocolla and black oxides. The Paddy has the typical contact vein gangue garnet, axinite, etc. The ore in the Paddy is lower grade - 2 to 3 per cent copper.

The Arizona is a fault fissure in the lime, breaking from a fault which shows to the Northeast with considerable displacement in the regular trend of granite.

Oretaken from the Arizona shaft,which is sunk on the best ore chutes and followed then down on an incline to a depth of 120 feet, would average 8% for all ore taken from the shaft, collar to bottom. Fines rejects from ore shipped will run 3-1/2% copper. This is leached material which was screened out of the coarse ore.

Proposed tunnel on the Checkmate Vein of 1500 feet will be on ore all the way from the East Morencio end line. This vein is opened by surface cuts. It is believed that the dip of the Arizona may be such that it will not require this footage. In that case would expect to use the cost of remaining work on crosscuts or winze, whichever in the judgment of both parties would be most beneficial.

(b)(1) Maps show veins and opening and general situation as to proposed development. Original intention was to drive 1200 feet - decided to drop down 300 feet farther with the purpose of reaching the ground water level without sinking.

(b)(2) Checkmate drift -
1000 ft. long, 125 ft deep, 5 ft wide, 44,900 tons, 3% ore

Arizona -
50 ft long, 300 ft deep, 4 ft wide, 4,000 tons, 8% ore

Morencio -
50 ft long, 35o ft deep, 4 ft wide, 4,700 tons, 7% ore

Arizona Vein	Est. Tons	Metal Cont.%	Gross	Rec.Value	Est. Cost Production
Measured	100	8% cu.	40.00	21.50	18.50
Probable	4000	8%	40.00	15.00	25.00
Morencio	4700	7%	36.00	11.00	25.00
Checkmate	44900	3%	(This ore would require incentive price to make profitable.)		

Morencio and Arizona below the 300 ft level believed favorable for a large vein of high grade ore if it reaches the ground water level. The primary chalcopyrite in the surface working is of good grade, running around 20% with a minimum of iron and should show a deposit ranging around 15% copper in the secondary zone. All development on the Arizona and Morencio claims.

13. Distance to Contact R.R. point - 23 miles
Distance to Siding Henry - 12-1/2 miles

Residence will be at mine - road fair for 4 miles - gravel next 5 miles and good highway for the balance. It is expected to build about a mile of new road to proposed adit.

14. In War Eagle Creek below the Paddy Claim there is a good spring - ample water for 100 ton mill year around. This on new located claim where mill site was on east endline of Paddy named Mill Site Claim - Wayne Whitney, locator.

15. International 50 h.p. Diesel engine.

16. No previous operation of consequence.

17. I have 3/4 ton pickup - 1-1/2 ton truck, 285 cu.ft. Denver Gardner compressor with International Diesel engine - 500 gal. storage tank; camp buildings and shop will have to be constructed.

18. The Paddy Claim does not figure in this development. L.W. Whitney is Lessee of entire project and it is intended to project a lower tunnel from below the Paddy gaining an added 200 ft of depth.

(*b*) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)					

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

CERTIFICATION

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

(Name of company)

By L. N. Whitney
(Signature of authorized official)

4-20-52
(Date)

Lessee
(Title)

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

U. S. GOVERNMENT PRINTING OFFICE 16—63792-1

Asphalt Paving * Road Oiling * Cement Work * Bridge and Building Construction

A. D. Stanley
C. M. Ehlen

STANLEY & EHLEN Contractors

P. O. Box 1605 * Phone 4619 2901 Main St. * Boise, Idaho

March 18, 1952

L. W. Whitney
Meadows, Idaho

Dear Sir;

The writer has personally known Mr. Elaine A. Hanks of Boise, Idaho, for the past 25 years. During that time, Mr. Hanks has made a number of examinations of mining properties for me and has made excellent reports on his surveys. During the early 1930's, I was associated with Mr. Hanks on several short term options to purchase contract and the options were relinquished. Mr. Hanks located this property and his early reports of the value have been verified in every detail in subsequent operations by various companies in the time.

Accompanied by other engineers, I have visited the Boston and Arizona Mines in the Contact, Nevada area, and have seen the development under Mr. Hanks' management of these properties. My engineering advice was that the Boston development at a cost of around $20,000.00 was exceedingly low for over the period in which the work was carried out. An independent engineering report on the Boston and Arizona mines indicated possibilities of large high grade ore bodies that could be profitably developed and mined. Mr. Hanks' handling of these properties would indicate excellent mining judgement and operation on the scale attempted at the time the properties were active.

To my personal knowledge and from information available among the mining people of Southern Idaho, Mr. Hanks has always shown sound and even cold-blooded appraisals of mine values. He is known to be conservative, honest and above reproach in his business transactions.

Yours truly,

C. M. Ehlen

CME/s

C
O
P
Y

LOCATION CERTIFICATE

KNOW ALL MEN BY THESE PRESENTS: That the undersigned owner of the lode hereinafter described in order to complete and perfect his location and the title thereto does hereby certify:

1. The name of the lode or vein is MORENCIO
2. The name of the locator- B.A.HANKS
3. The date of the location was MARCH 25th 1942
4. The said claim is situated in the FORTIS mining District, ELKO County, Nevada; and is situated ON THE EASTERN END OF THE WHITE PEAKS RANGE and parallels the Arizona Patented lcima on the south side
5. The number of linear feet westerly direction from the point of discovery is 210 and the number claimed in a easterly direction is 1290 from the point of discovery, together with 300 feet on each side of the vein.
6. As near as may now be given the general course of the lode or vein is easterly and westerly.
7. The discovery shaft or its equivalent sunk upon the claim is situated App. 750 ft. easterly from the discovery, it consists of open cut at least 4 x 6 x 10 ft and shows therein a lode deposit of mineral in place.

8. The corners and side-centers are located and marked as follows:

At and for North East corner is a post 4" x 4" x 5 ft long marked N.E. corner Morencio Mining Claim

At and for North West corner is a post 4" x 4" x 5 ft long marked N.W. corner Morencio Mining Claim

At and South West corner is a post 4" x 4" x 5 ft long marked S.W. corner Morencio Mining Claim

At and for South East corner is a post 4" x 4" x 5 ft long marked S.E. corner Morencio Mining Claim

At and for side-center on North side line is a post marked North side-center.

At and for side-center on South side line is a post marked South side-center.

Dated this 9th day of May, 1942.

/s/ B. A. Hanks

Locators

File No. 78314

State of Nevada)
)
County of Elko)

Filed for record at the request
of B. A. Hanks
on the 11 day of May, 1942
at 9:07 o'clock A.M. and
recorded in Book 27 Mining Locations
Page 49
Records of said County

Gertrude Williams
County Recorder

C
P
Y

LOCATION CERTIFICATE

KNOW ALL MEN BY THESE PRESENTS: That the undersigned owner of the lode hereinafter described in order to complete and perfect his location and the title thereto does hereby certify:

1. The name of the lode or vein is PADDY
2. The name of the Locator- B.A.HANKS
3. The date of the location was MARCH 25th, 1942
4. The said claim is situated in the Portis mining District, Elko County, Nevada; and is situated in township 44 North Range 64 east. Section 23, and near War Eagle gulch and joins the Morencio claim on the west end line of the Paddy
5. The number of linear feet claimed in a westerly direction from the point of discovery is 1390 and the number claimed in a easterly direction is 110 from the point of discovery, together with 300 feet on each side of the vain.
6. As near as may now be given the general course of the lode or vein is Easterly and Westerly
7. The discovery shaft or its equivalent sunk upon the claim is situated 60 ft. app. southerly from the discovery, it consists of open cut at least 16' by 4' x 4' and shows therein a lode deposit of mineral in place.
8. The corners and side-centers are located and marked as follows:

At and for North East corner is a post 4 by 4" by 5'
marked N.E. corner Paddy Mining Claim

At and for North West corner is a post 4" by 4" x 5'
marked N.W. corner Paddy Mining Claim

At and for South West corner is a post 4"x4"x5'
marked S.W. corner Paddy Mining Claim

At and for South East corner is a post 4"x4"x5'
marked S.E. corner Paddy Mining Claim

At and for side-center on north side line is a post marked North side-center.

At and for side-center on South side line is a post marked South side-center.

Dated this 9th day of May, 1942.

s/s B. A. Hanks

Locators

File Number 78315

STATE OF NEVADA)
)
County of Elko)

Filed for record at request of

B.A.Hanks on the 11 day of May 1942
at 9.09 O'clock A.M.
Recorded in Book 27 Mining Locations
Page 49 to 50 inclusive,
Records of said County.

Gertrude Williams
County Recorder.

[illegible]

[illegible]

B A Stanks

Dated Mar 20-1952

LEASE and OPTION

Made and entered into this 7 day of February, 1952 by and between T. J. Canavan of Portland, Multonomah Co. Oregon, party of the first part, hereinafter refered to, as the Optionor, and B. A. Hanks Contact, Nevada State of Nevada party of the second part, hereinafter refered to as the Optionee.

Witnesseth;

That the Optionor is the owner of the Paddy, unpatented mining claim located in the Porter Mining District, Elko County, Nevada.

The Optionee desired a lease and option to purchase said property, under the terms and conditions herinafter set forth, now, therefore, for, and in consideration of Five Dollars ($5.00), receipt of which is hereby acknowledged, and the premises and covenants hereinafter contained, by the respective parties hereto to be kept and performed, it is mutually covenanted and agreed by the partion hereto, as follows.

1. Optionor gives and grants to Optionee, the exclusive right and option to purchase the before mentioned Paddy Mining claim, premises and property for the sum of Ten thousand dollars ($10,000.00) lawful money of the United States, to be paid under and upon the following terms.

A royalty of ten per cent (10%) upon all smelter, mill settlements or from any sale of ore, concentrates or bullion that may be produced, this is based on the gross value, less smelter charges, said royalty shall apply on the purchase price due hereunder.

All such payments shall be paid within ten days of receipt of settlements together with a copy of said transaction and mailed direct to the Optionors address, 1916 NE62 Ave. Portland, Oregon or to his sesignated agent as Optionor may request. This to continue untill the full purchase price has been paid, or this option relinquished, the Optionee shall have the right to pay all or any part, of the purchase price at any time, less royalities paid during the life of this agreement, upon the recept of the full amount due under this agreement Optionor shall delever a Quit Claim deed for said property.

2. This option shall be for five years from date, under express conditions that all terms, premises and covenants are complied with.

3. Optionee shall have until May 1, 1952, to begin work on said property.

4. Optionee shall perform or caused to be performed at least 30 shifts of work upon said property per month during the life of this agreement begining May 1, 1952.

5. Optionee shall have immediate right of possession to said mining claim, premises and property, above and below surface, upon execution of this agreement, and may continue in possession and carry on exploration and development work or mining and milling operations thereon, but all work must be done in a manner consistent with good mining practice. Optionee shall have the right to continue in such possession so long as he shall not be in default of any and all of the terms of this agreement by him to be kept and performed.

6. The development work shall be performed as hereinbefore agreed unless the party of the second part is obliged to discontinue work on account of conditions beyond the control of ordinary mankind-such matters at strikes, fires and acts of God.

7. The Nevada laws as to employees' insurance shall be strictly complied

with before said employees are placed at work by Optionee; also the safety regulations required by the State of Nevada shall be strictly complied with by the Optionee.

8. Optionor or his accredited agent may have access to all books, records, and mine workings at reasonable times for the purpose of inspection.

9. Optionee will pay all claims for wages, supplies and operation costs incurred while working hereunder, and hold said Optionor harmless from all liens for labor, materials or any expeditures contracted by him, and shall keep proper notices posted on the promises at all times to this effect.

10. This agreement is intended to be a lease and option, and Optionee may forfeit his rights hereunder and surrender the property to the owners by giving them thirty days written notice to that effect. He will also have thirty days to remove his machinery, supplies and personal property.

In case of such surrender any and all royalty payments that may have been made or may be then due from ore previously mined shall be forfeited and accepted by the Optionor as liquidated damages for the use of the property,

11. All notices hereafter to be given to first party hereunder shall be considered as having been given when sent to him by ordinary mail addressed to 1916 NE 62 Avn Portland, Oregon and notices given to second party shall be considered as having been made when sent to him by registered mail addressed at post office Contact, Nevada.

12. Optionee further agrees that he will record assesment work before July 1, each year.

13. It is further agreed that all buildings, development work, track, rails and other permanent improvements and fuxtures placed upon said property by the Optionee (as distinguished from machinery, supplies and personal property) shall become and be considered a part of the said

mining property and shall revert to and remain the property of the Optionor in the event of any termination or abandonment of this lease and option.

14. If the Optionee shall fail to pay the said purchase price at the time and in the manner as hereinabove provided or fail to keep and perform any of the other terms and conditions hereof on his part to be kept and performed, then the Optionor may, at his election, terminate this agreement by giving thirty days prior notice in writing to the Optionee of his intention so to do. Provided, however, that if within said thirty days period after the giving of such notice, the Optionee makes such payment or corrects such other default, this agreement shall then be considered re-instated and in good standing. However, upon failure of the Optionee to correct the same within said peried this lease and option will then be terminated and at an end and all rights of Optionee hereunder forfeited and in the event of such termination, all payments theretofore made upon said purchase price (royalty or otherwise) shall remain the property of the Optionor and be treated as liquidated damages for the failure of Optionee to perform the terms of this contract and Optionor shall be entitled to forthwith regain the possession of said premises, and any deed and abstract deposited in escrow shall be returned to him, provided that such termination shall in no manner release the Optionee from his obligation and liability to pay and satisfy in full all likenable indebtedness incurred up to the time of such termination or to account for any pay over all royalties accrued or to accrue from ore taken from such property up to such time.

15. Time is the essence of this agreement and each and every clause herein, and this contract shall be binding upon and inure to the benefit of the parties hereto and their respective heirs, successors, administrators, and assigns.

IN WITNESS WHEROF, the parties hereto have hereunto set their hands and seals to triplicatews hereof the day and year first hereinabove written.

T. J. Canavan
Optionor

B. A. Hanks
Optionee

STATE OF OREGON)
) SS.
County of Malhuer)

On this 11 day of February, 1952, before me, the undersigned, a Notary Public, in and for the said county and state, personally appeared the within named B. A. Hanks, who is known to me to be the identical person who executed the foregoing instrument, and acknowledged to me that it was his free and voluntary act.

IN WITNESS WHEROF, I have hereunto set my hand and affixed my official seal to triplicates on this 11 day of February, 1952.

Notary Public for
My Commission Expires 1/24/54

STATE OF OREGON)
) SS.
County of Malhuer)

On this 11 day of February, 1952, before me, the undersigned, a Notary Public, in and for the said county and state, personally appeared the within named T. J. Canavan, who is known to me to be the identical person who executed the foregoing instrument, and acknowledged to me to be his free and voluntary act.

IN WITNESS WHEROF, I have hereunto set my hand and affixed my offical seal, to the triplicates hereof on this 11 day of February, 1952.

Notary Public for
My Commission Expires 1/24/54

Made and entered into this 21th day of January, 1952 by and between Bessie H. Wootten of Berkeley Alemeda County State of California, party of the first, hereinafter refered to, as the Optionor, and L. W. Whitney, of Meadows, Adams County State of Idaho party of the second, hereinafter refered to as the Optinee.

Witnesseth:

That the Optionor is the owner of the Arizona Patented Mining Claim located in the Porter Mining District, Elko County, Nevado U. S. Patent survey no. 1615-Lot 37.

The Optinee desires a lease and option to purchase said property, under the terms and conditions herinafter set forth, now, therefore, for, and in consideration of five ($5.00), receipt of which is hereby acknowledged, and the premises and covenants hereinafter contained, by the respective parties hereto to be kept and performed, it is mutually covenanted and agreed by the parties hereto, as follows;

1. Optinor gives and grants to Optinee, the exclusive right and option to purchase the before mentioned Arizona patented Mining Claim, premises and property for the sum of Twenty thousand dollarw ($20,000.00) lawful money of the United States, to be paid under and upon the following terms.

A royalty of ten per cent (10%) upon all smelter, mill aettlements or from any sale of ore, concentrates or bullion that may be produced this is based on the gross value less, smelter charges, said royalty shall apply on the purchase price due hereunder.

All such payments shall be paid within ten days of receipt of settlements together with a copy of said transaction and mailed direct to the Optionors address, 2501 Benvenue Avenue, Riveria Apartments Berkely, California or to her designed agent as Optionor may request. This to continue until the full purchase price has been paid, or this option relinquished, the Optionee shall have the right to pay all or any part, of the purchas price at any time, less royalities paid during the life of this agreement, upon the recept of the full amount due under this agreement Optionor shall delever a warranty deed for said prpperty.

2. This option shall be for five years from date, under express conditions that all terms, premises and covants are complied with.

3. Optineeshall have until July first 1952, th begin work on said property.

4. Optionee shall perform or caused to be performed at least 30 shifts of work upon said property per month during the life of this agreement beginning July 1, 1952.

5. Optionee shall have immediate right of possession to said mining claim, premises and property, above and below surface, upon execution of this agreement, and may continue in possession and carry on exploration and development work or mining and milling operations thereon, but all work must be done in a manner consistent with good mining practice. Optionee shall have the right to continue in such possession so long as he shall not be in default of any and all of the terms of this agreement by him t o be kept and performed.

6. The development work shall be performed as hereinbefore agreed unless the party of the second part is obliged to discontinue work on account of conditions beyond the control of ordinary mankin-such matters as strikes, fires and acts of God.

7. The Nevada laws as to employees' insurance shall be strictly complied with before said employees are placed at work by Optionee; also the safety

regulations required by the State of Nevada shall be strictly complied with by the Optionee.

8. Optionor or his accredited agent may have access to all books, records, and mine workings at reasonable times for the purpose of inspection.

9. Optionee will pay all claims for wages, supplies and operation costs incurred while working hereunder, and hold said Optionor harmless from all liens for labor, materials or any expenditures contracted by him, and shall keep proper notices posted on the premises at all times to this effect.

10. This agreement is intended to be a lease and option, and Optionee may forfeit his rights hereunder and surrender the property to the owners be giving them thirty days written notice to that effect. He will also have thirty days to remove his machinery, supplies and personal property.

In case of such surrender any and all royalty payments that may have been made or made or may be then due from ore previously mined shall be forfeited and accepted by the Optionor as liquidated damages for the use of the property.

11. All notices hereafter to be given to first party herunder shall be considered as having been given when sent to herby ordinary mail addressed to 2501-Benvenue Avenue Berkley, California, and notices given to second party shall be considered as having been made when sent to him be registered mail addressed at post office Meadows, Idaho.

12. Optionee further agrees that he will pay taxed when due.

13. It is further agreed that all buildings, development work, track, rails and other perment improvements and fixtures placed upon said property by the Optionee (as distinguished from machinery, supplies and personal property) shall become and be considered a part of the said mining property and shall revert to and remain the property of the Optionor in the event of any termination or abandoment of this lease and option.

14. If the Optionee shall fail to pay the said purchase price at the time and in the manner as hereinabove provided or fail to keep and perform any of the other terms and conditions hereof on his part to be kept and performed, then the Optionor may, at his election, terminate this agreement by giving thirty days prior notice in writing to the Optionee of his intention so to do. Provided, however, that if within said thirty days period after the giving of such notice, the Optionee makes such payment or corrects such other default, this agreement shall them be considered re-instated and in good standing. However, upon failure of the Optionee to correct the same within said period this lease and option will then be terminated and at an end and all rights of Optionee hereunder forfeited and in the event of such termination, all payments theretofore made upon said purchase price (royalty or otherwise) shall remain the property of the Optionor and be treated as liquidated damages for the failure of Optionee to perform the terms of this contract and Optionor shall be entitled to forthwith regain the possession of said premises, and any deed and abstract deposited in escrow shall be returned to him, provided that such termingtion shall in no mannor release the Optionee from his obligation and liability to pay and satisfy in full all lieneble indebtedness incurred up to the time of such termination or to account for any pay over all royalties accrued or to accrue from ore taken from such property up to such time.

15. Time is the essence of this aggreement and each and every clause herein, and this contract shall be binding upon and inure to the benefit of the parties hereto and their respective heirs, successors, administrators, and assigns.

IN WITNESS WHEREOF, the parties hereto have hereunto set their hands and seals to triplicates hereof the day and year first hereinabove written.

Bessie H. Wootten
Optionor

L. W. Whitney
Optionee

STATE OF IDAHO)
) SS.
County of Vally)

On this 21 day of January, 1952, before me, the undersigned, a Notary Public, in and for the said county and state, personally appeared the within named L. W. Whitney, who is known to me to be the identical person who executed the foregoing instrument, and acknowledged to me that it was his free and voluntary act.

IN WITNESS WHEROF, I have hereunto set my hand and affixed my official seal to triplicates on this 21 day of January, 1952.

Neal Boydstun
Notary Public for
My Commission Expires May 6, 1953

Washington D. C.)
) SS.
COUNTY OF_____)

On this 29 day of January, 1952, before me, the undersigned, a Notary Public, in and for the said county and State, personally appeared the within named Bessie H. Wootten, who is known to me to be the identical person who executed the foregoing instrument, and acknowledged to me to be her free and voluntary act.

IN WITNESS WHEROF, I have hereunto set my hand and affixed my offical seal, to the triplicates hereof on this 29 day of January, 1952.

Byrd C. Reid
Notary Public for
My Commission Expires 11/14/55

Memmo of Agreement

Between Ba A. Hanks, of Contact, Nevada, party of the first part, and L. W. Whitney of Meadows, Idaho, party of the second part.

Witnesseth:

Whereas the party of the first part is the owner of the Morencia Mining claim, situated in the Porter Mining District, Elko Co. Nevada, which is one of a group of three claims, consisting of the Morencia, and Paddy, (unpatented) and the Atizona patented claim, known locally as the Arizona Mines. The party of the first part agrees to obtain a lease and option on the Arizona patented claim, at purchase price of $20,000.00 to be paid from a royalty of ten percent gross smelter returns, less smelter charges, to the owner, Mrs. ~~W. M.~~ Bessie H Wootten.

Also, an option on the Paddy claim, for $10,000.00 to be paid by a royalty of 10% gross smelter returns, less smelter charges, or by a percentage of stock in the mine, amount to be decided on at a later date, from the owner, T. J. Canavon, of Portland, Oregon.

The lease and option on these two claims will be for a term of five years, unless mine stock is issued to Mr. T. J. Canavon, and under nominal conditions as to work to be done, as is usual in such options, assesment preformed and taxes paid.

The party of the first part agrees to include the Morencia claim in the deal, without royalty, and also if the Checkmate tunnel is extended as shown on the map for 1200 feet the Morencia will be included in the deal without further compensation to the party of the first part.

The party of the second part agrees to extend the Arizona tunnel below shaft to intersection with the Arizona vein, approximately 100 ft. Also to defray expended incidental to taking out ore until the said ore will pay its own cost of development.

Provided however, that the party of the second part can discontinue

this work at any time after reaching the vein, if in his judgement he considers it unprofitable.

It is further agreed by the party of the first part, that said party of the second part shall be reimbursed for all moneys expended by him, by, at such a time from net profits accruing from this operation, that is in amount not to jeopradize the regular mining operation. When the second party has been fully compensated for his expenditures, all profits and options shall be held equally between both parties.

It is further agreed that these options, claims and privileges be placed in a small company for the purpose of defining their respective interests. The party of the first agrees to supervise the operation. The party of the second agrees to act as treasurer, and will attend to royalty payments, anf receipts of smelter settlements.

It is further agreed by both parties to make application for government loan for the purpose of extending the Checkmate tunnel 1200 ft. and such cross cutting as may be deemed necessary. Amount of loan to be applied for is $50,000.00.

It is further agreed that any new claims filed on, in connection with the Arizona mine, shall become a part of, and belong to the company.

Time is the essence of this agreement and each and every clause herein, and this contract shall be binding upon and inure to the benefit of the parties hereto and their respective heirs, successors, administrators, and assigns.

IN WIRNESS WHEROF, the parties hereto have set their hands and seals to triplicates hereof on this 21 day of January, 1952.

Signed L. W. Whitney _____

B. A. Hanks

_____

Notary Public for
My Commision Expires_____

LOCATION CERTIFICATE

FROM ALL MEN BY THESE PRESENTS: That the undersigned owner of the lode hereinafter described in order to complete and perfect his location and the title thereto does hereby certify:

1. The name of the lode or vein is MORENCIO
2. The name of the locator- B.A.HANKS
3. The date of the location was MARCH 25th 1942
4. The said claim is situated in the PORTIS mining District, ELKO County, Nevada; and is situated ON THE EASTERN END OF THE WHITE PEAKS RANGE and parallels the Arizona Patented lcima on the south side
5. The number of linear feet westerly direction from the point of discovery is 210 and the number claimed in a easterly direction is 1290 from the point of discovery, together with 300 feet on each side of the vein.
6. As near as may now be given the general course of the lode or vein is easterly and westerly.
7. The discovery shaft or its equivalent sunk upon the claim is situated App. 750 ft. easterly from the discovery, it consists of open cut at least 4 x 6 x 10 ft and shows therein a lode deposit of mineral in place.

8. The corners and side-centers are located and marked as follows:

At and for North East corner is a post 4" x 4" x 5 ft long marked N.E. corner Morencio Mining Claim

At and for North West corner is a post 4" x 4" x 5 ft long marked N.W. corner Morencio Mining Claim

At and South West corner is a post 4" x 4" x 5 ft long marked S.W. corner Morencio Mining Claim

At and for South East corner is a post 4" x 4" x 5 ft long marked S.E. corner Morencio Mining Claim

At and for side-center on North side line is a post marked North side-center.

At end for side-center on South side line is a post marked South side-center.

Dated this 9th day of May, 1942.

/s/ B. A. Hanks

Locators

File No. 78314

State of Nevada)
)
County of Elko)

Filed for record at the request
of B. A. Hanks
on the 11 day of May, 1942
at 9:07 o'clock A.M. and
recorded in Book 27 Mining Locations
Page 49
Records of said County

Gertrude Williams
County Recorder

C
O
P
Y

LOCATION CERTIFICATE

- - - -

KNOW ALL MEN BY THESE PRESENTS: That the undersigned owner of the lode hereinafter described in order to complete and perfect his location and the title thereto does hereby certify:

1. The name of the lode or vein is PADDY
2. The name of the Locator- B.A.HANKS
3. The date of the location was MARCH 25th, 1942
4. The said claim is situated in the Portis Mining District, Elko County, Nevada; and is situated in township 44 North Range 64 east Section 23, and near War Eagle gulch and joins the Lorencio claim on the west end line of the Paddy
5. The number of linear feet claimed in a westerly direction from the point of discovery is 1390 and the number claimed in a easterly direction is 110 from the point of discovery, together with 300 feet on each side of the vein.
6. As near as may now be given the general course of the lode or vein is Easterly and Westerly
7. The discovery shaft or its equivalent sunk upon the claim is situated 60 ft. app. southerly from the discovery, it consists of open cut at least 16' by 4' x 4' and shows therein a lode deposit of mineral in place.
8. The corners and side-centers are located and marked as follows:

At and for North East corner is a post 4 by 4" by 5'
marked N.E. corner Paddy Mining Claim

At and for North West corner is a post 4" by 4" x 5'
marked N.W. corner Paddy Mining Claim

At and for South West corner is a post 4"x4"x5'
marked S.W. corner Paddy Mining Claim

At and for South East corner is a post 4"x4"x5'
marked S.E. corner Paddy Mining Claim

At and for side-center on north side line is a post marked North side-center.

At and for side-center on South side line is a post marked South side-center.

Dated this 9th day of May, 1942.

s/s B. A. Hanks

Locators

File Number 78315

STATE OF NEVADA)
)
County of Elko)

Filed for record at request of

R.A.Hanks on the 11 day of May 1942
9.09 O'clock A.M.
Recorded in Book 27 Mining Locations
Page 49 to 50 inclusive,
Records of said County.

Gertrude Williams
County Recorder.

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA
FOR USE UNDER THE
DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. DMEA-2554

Date received 5-27-52

L W Whitney,
Meadows, Idaho.

Name and address of applicant

Date

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (5) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.

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Defense Minerals Administration
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MAY 27 1952

4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☒ Lessee.
   - ☐ Contractor.
5. Number of years in production No regular operation
   If not in production or operation, estimated date when production will begin Nov - 1953
6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
L.W. Whitney Meadowsville			$5000			$5000	
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves.

MF-100

1. (a) copper
   (b) Small amount silver

2. Arizona patent - Survey No. 1615, Lot 37, Florencio and Paddy locations. Arizona was formerly known as the Rochester, Florencio was the Lincoln and Paddy was the War Eagle.

   (a) 380 ft shaft
   (b) 60 ft crosscuts
   (c) 25 ft tunnels
   (d) 400 ft open cuts showing veins

3. (a) 12-1/2 miles to Henry on U.P. R.R. Westerly
   23 miles to Contact, Nevada on U.P.R.R. Northwesterly
   (b) Porter Mining District
   (c) T. 44 N., R. 64 East, Sections 22-23.
   (d) Elko County, Nevada

4. (b) Lessee

5. No regular production - several cars of ore were shipped 40 years ago. Estimated date of production - October, 1953.

6. (a) The applicant has several years experience in different mining properties in Oregon, Idaho and Nevada - Member Idaho Mining Association-Ranching at present at Meadows, Idaho.

   (b) B.A. Hanks who will supervise the work is native of Virginia City, Nevada - twenty years experience as miner, timberman, tunnel and shaft contractor and manager - past twenty five years in private practice - examination and consulting.

   References: Boise Payette Lumber Co. Boise, Idaho (letter
   C. L. Ehlen, Contractor and Machinery, Boise, Idaho (attached)
   Harry March, Secretary, Idaho Mining Association
   H.F. England Co. Oroville, California
   Ellsworth Wood, Edmonton, Alberta - West Coast Oil Co.

7. (a) These claims were located in the early 70's by prospectors Knoll and Turo. Purchased in the 80's by W. J. Hanks of Sun Creek Land & Cattle Co. formerly foreman of Con Virginia Mine in Virginia City. They have been held by Hanks' heirs from that time to the present. B.A. Hanks shipped ore from the Arizona and Florencio claims in 1910 - occasionally up to 1916. This was the only ore shipped from the property. This ore averaged 8% copper as taken from the shaft. Sorted ore ran 19%. Some of the ore was hauled by team to Wells, Nevada - sixty miles. There was no possibility of making a mining operation in those times. Smelter rates were high and copper prices erratic. In fact it was useless to attempt to develop a small copper property under existing conditions over a period of thirty years.

   The report made by Schrader U.S.G.S. Bulletin 497, where McArdle claimed to have shipped high grade copper and silver ore from this property was pure fabrication. The only ore shipped was by Hanks, and about twenty tons that was stolen off the Arizona dump. - Signed B.A. Hanks

(b) The Marshall Mines, formerly the Seattle Contact, have produced over a period of years. Also Queen of the Hills, Brooklyn and Bellevue. These properties are 10 miles Northwesterly of the Arizona.

(c) There are no private reports available now. Phillip Diedesheimer of Virginia City visited the property and recommended it in 1910. An engineer, W. T. Bradley of London, England, made a report which was very favorable. There have been no attempts to do anything with the property for the past 35 years. The larger companies wanted open pit operations and the fluctuations in copper prices discouraged smaller operators. By B.A. Hanks.

8. Wayne Whitney, Lessee, Meadows, Idaho.

9. None

10. None

11. Unapplicable.

12. Maps herewith show surface veins - also vertical cross-section giving probable results with this development at ground water level which is estimated at300 to 35o feet. U.S.G.S. report No. 497 by Schrader, Pages 136, 137 and 138 gives a good report on the geology, with the exception of gangue minerals at Arizona and Morencio claims. These are limonite, kaolin, calc-spar, quartz and manganese - principal copper minerals are chalcopyrite, chrysocolla and black oxides. The Paddy has the typical contact vein gangue garnet, axinite, etc. The ore in the Paddy is lower grade - 2 to 3 per cent copper.

The Arizona is a fault fissure in the lime, breaking from a fault which shows to the Northeast with considerable displacement in the regular trend of granite.

Oretaken from the Arizona shaft, which is sunk on the best ore chutes and followed then down on an incline to a depth of 120 feet, would average 6% for all ore taken from the shaft, collar to bottom. Fines rejects from ore shipped will run 3-1/2% copper. This is leached material which was screened out of the coarse ore. 120' Shaft

Proposed tunnel on the Checkmate Vein of 1500 feet will be on ore all the way from the East Morencio end line. This vein is opened by surface cuts. It is believed that the dip of the Arizona may be such that it will not require this footage. In that case would expect to use the cost of remaining work on crosscuts or winze, whichever in the judgment of both parties would be most beneficial.

(b)(1) Maps show veins and opening and general situation as to proposed development. Original intention was to drive 1200 feet - decided to drop down 300 feet farther with the purpose of reaching the ground water level without sinking.

(b)(2) Checkmate drift -
1000 ft. long, 125 ft deep, 5 ft wide, 44,900 tons, 3% ore

Arizona -
50 ft long, 300 ft deep, 4 ft wide, 4,000 tons, 8% ore

Morencio -
50 ft long, 35o ft deep, 4 ft wide, 4,700 tons, 7% ore

Arizona Vein	Est. Tons	Metal Cont.%	Gross	Rec.Value	Est. Cost Production
Measured	100	6% cu.	40.00	21.50	16.50
Probable	4000	8%	40.00	15.00	25.00
Morencio	4700	7%	36.00	11.00	25.00
Checkmate	44900	3%	(This ore would require incentive price to make profitable.)		

Morencio and Arizona below the 300 ft level believed favorable for a large vein of high grade ore if it reaches the ground water level. The primary chalcopyrite in the surface working is of good grade, running around 20% with a minimum of iron and should show a deposit ranging around 15% copper in the secondary zone. All development on the Arizona and Morencio claims.

13. Distance to Contact R.R. point - 23 miles
Distance to Siding Henry - 12-1/2 miles

Residence will be at mine - road fair for 4 miles - gravel next 5 miles and good highway for the balance. It is expected to build about a mile of new road to proposed adit.

14. In War Eagle Creek below the Paddy Claim there is a good spring - ample water for 100 ton mill year around. This on new located claim where mill site was on east endline of Paddy named Mill Site Claim - Wayne Whitney, locator.

15. International 50 h.p. Diesel engine.

16. No previous operation of consequence.

17. I have 3/4 ton pickup - 1-1/2 ton truck, 285 cu.ft. Denver Gardner compressor with International Diesel engine - 500 gal. storage tank; camp buildings and shop will have to be constructed.

18. The Paddy Claim does not figure in this development. L.W. Whitney is Lessee of entire project and it is intended to project a lower tunnel from below the Paddy gaining an added 200 ft of depth.

(*b*) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)					

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

CERTIFICATION

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

(Name of company)

By L. W. Whitney
(Signature of authorized official)

4-20-52
(Date)

Lessee
(Title)

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

U. S. GOVERNMENT PRINTING OFFICE 16—63792-1

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

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

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

Not To Be Filled in by Applicant

Docket No. DMEA-2554
Metal or Mineral
Date Received 5-27-52
Amount $
Participation (Government %)

Name and address of applicant

L. W. Whitney
Meadows Idaho

Date April 20, 1952.

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

DMA Docket Number (if available) _____

INSTRUCTIONS

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

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

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

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

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

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

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

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
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MAY 27 1952

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

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

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

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

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

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

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

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

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

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

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

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

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

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

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

CERTIFICATION

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

(Name of company)	By L. W. Whitney (Signature of authorized official)
4-20-52 (Date)	Lessee (Title)

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

U. S. GOVERNMENT PRINTING OFFICE 16—64067-2

M-103

1. (a) Arizona patented Claim - Morencio and Paddy located claims. Map attached showing location as to patent survey and section numbers. This development confined to the Arizona and Morencio.

(b) Lessee
Copies of options and agreements are attached hereto.

(c) Both areas are the same. Attached map shows place of beginning tunnel marked A on west end of Paddy Claim, thence on Checkmate Vein 1500 feet to a point marked B.

No liens or encumbrances of any nature on this property. Signed release of lessors are attached to this report.

2. (a) Copper
(b) Map attached

3. (a) Tunnel 1500 ft. long running in the Checkmate Vein with the object of cutting the Arizona and Morencio Veins. Total cost - $49,315.40.

(b) Can start on ten days notice. Ten months to complete the proposed work.

4. Map attached.

5. None - will require housing for camp and shop.

6. (a) None

(b)	Shop at portal	$ 421.50
	Bunk and cook houses	672.00
	Fixtures	194.00
7. (a)	None	
7. (b)	Mile road to tunnel portal	397.00
	Air compressor, engine	2,700.00
	Two drifters(Ingersoll), hose, tank and bars	932.00
	Air pipe 3" - 1500 ft.	480.00
	Rails, spikes, plates - 1500 ft	625.00
	Ties	125.00
	Powder - 6 tons	2,760.00
	Caps and fuse	386.40
	Vent pipe - 10"	160.00
	Suction Fan - 10"	125.00
	Carbide	34.00
	Mine cars - 4	148.50
	Aux. air receiver	75.00
	Fittings	20.00
	Forge, small tools, etc.	85.00
	Shovel loader - used	1,900.00
	Compensation Ins. Social Security	3,750.00
	Supervision and accounting	5,000.00
	Emergency kit	25.00
	Timber	2,100.00
	Transportation equipment to mine	400.00
	Power, gas, oil and maintenance	1,200.00

(Cont)

Forward	$ 24,715.40
Air or electric trammer	$ 1,725.00
Labor at 15.50 per foot	22,875.00
	$ 49,315.40

7. (c) 4-d cat, 1-3/4 ton pickup, 1 - 1-1/2 ton truck, Denver Gardner Compressor, 285 cu.ft. 50 h.p. International Diesel Engine. This all used equipment - rental or depreciation as allowed by the government engineers.

8. 2 miners 1.60 per hr
   2 muckers 1.40 " "
   2 shop men 1.40 " "
   1 Superintendent $450.00 per month

   If conditions warrant might be advisable to put on a bonus basis, for footage exceeding normal shift advance.

9. Assaying 190.00
   Accounting - on other list No. 7 (b)
   Power " " " " "

10. (a) $24,657.70

    (b) Yes, can furnish the amounts as required by monthly account.

11. The equipmentlisted here is quoted at used prices prevailing now for good used and reconditioned.

11/17/52 gla

IN REPLY REFER TO:

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

November 17, 1952

Memorandum

Re: DMEA-2554
Arizona Mining claims
Porter District
Elko County, Nevada
$13,875.48

To: Mr. E. Wm. Ellis

From: E. L. Newcomb

Subject: Concurrence with field team's proposed project.

The applicant requests Government assistance to drive a 1500-foot adit on the "Checkmate vein", to construct a shop, bunkhouse and cookhouse, and to provide mining equipment and supplies.

The field team did not find sufficient evidence to substantiate the existence of the "checkmate vein". Consequently, they recommend a denial of the applicant's proposal. Their examination, however, indicated that an exploration project on the Arizona and Hanks veins was warranted as an alternative proposal. A two-phase project is recommended for the Arizona and Hanks claims - (1) clean out and sample the Arizona shaft, drift 50 feet east and 50 feet west on the vein, and crosscut 50 feet, and (2) clean out and sample the Hanks (No. 3) shaft, drift 150 feet from bottom of the shaft, and raise 25 feet on best ore exposure. This program, rather than diamond drilling, was recommended because poor core recovery would be obtained in the oxidized ore zone.

Mineralization on the Arizona Mining Claims is localized along steeply-dipping bedding planes which parallel east-west faults in limestone and hornfels. The ore minerals are mainly chrysocolla, malachite, and chalcopyrite. The orebodies range in thickness from a few inches to 12 feet, and have an average strike length of about 15 feet. Orebodies on the Arizona and Hanks veins have been mined down-dip to reported depths of 80-120 feet. The Arizona vein is 3.5 feet thick at the collar of the shaft, but attains a thickness of 10 feet on the No. 1 and No. 2 levels. The Hanks vein is reported to be 8 feet thick, but most of the two shafts on this vein are inaccessible.

The field team took 9 samples on the Arizona and Hanks claims. Two of the samples were in the Arizona shaft, sample BM-307 (10 feet below collar), 3.5 feet ~~thick~~ wide, averaged 4.26% copper and BM-341 (43 feet below collar), 7.5 feet ~~thick~~ wide, averaged 3.41% copper. Sample BM-309, from 14 feet below collar in the Hanks No. 3 shaft, averaged 2.49% copper across a thickness of 6 feet, and BM-310, taken 20 feet below collar of Hanks No. 4 shaft, averaged 9.89% copper across a thickness of 8 feet.

The past production from the Arizona Mining claims, which was obtained prior to 1916, totalled about 200 tons of hand-sorted ore averaging 19% copper.

The limited project recommended by the field team appears to be justified. I recommend that the field team's proposal be approved.

E. L. Newcomb

E. L. Newcomb
Geologist

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

November 17, 1952

Memorandum

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Arizona Mining claims
Porter District
Elko County, Nevada
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E. L. Newcomb
Geologist

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
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NOV 3 1952

Office of
Executive Officer
DMEA Field Team
Region III

1012 Flood Bldg.
870 Market St.
San Francisco 2, Calif.

October 29, 1952

Memorandum

To: Frank E. Johnson, Operating Committee, DMEA, Washington, D.C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-2554 (Copper) L. W. Whitney
Arizona Mining Claims, Porter Mining District,
Elko County, Nevada

Reference is to your subject letter dated June 16, requesting a field examination of the applicant's property in Elko County, Nevada.

Attached are four copies of a report entitled "DMEA-2554 (Copper), Arizona Mining Claims, Elko County, Nevada," by Glenn G. Gentry, Mining Engineer, Bureau of Mines, and D. C. Laub and R.M.Smith, Geologists, U.S.Geological Survey, dated October 24, 1952.

The applicant had requested a loan of $49,315.40 to drive an adit 1,500 feet in length on the "Checkmate vein," construct shop, bunkhouse and cookhouse, and to provide necessary machinery and supplies for this work.

According to the examining engineer and geologists, this loan should be denied; however, the Field Team does consider that the copper ore in sight in the Arizona and Hank shafts, together with the copper content of the ore samples and the possibility of finding additional ore, are sufficient to warrant an exploration loan in the amount of $13,875.48. The work under this loan would comprise cleaning out the Arizona and Hank shafts and then doing some drifting, crosscutting, and raising to determine the potential value of the property.

Mr. A. C. Johnson concurs with the examiners' proposals.

It is noted in your letter of June 16 that "If the report of the Field Team is favorable, please request the applicant to furnish you seven copies each of the Owner's Consent to Lien for the following claims: Bessie H. Wootten for the Arizona Claim; T. J. Canavon for the Paddy Claim; B. A. Hanks for the Morenci Claim."

In transmitting the report of the examining engineer and geologists to me, Mr. A. C. Johnson did not mention whether or not the applicant had been requested to furnish copies of Owner's Consent to Lien for the claims involved.

His attention is being called to your request by means of a carbon copy of this memorandum, and I am certain he will take immediate steps to obtain the Owner's Consent to Lien. When the seven copies of Form MF-203 are received for the three claims, they will be forwarded to you.

The subject docket is returned herewith.

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

Attachments

Copy to: E. H. Bailey, USGS

A. C. Johnson, Reno

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 3 1952

6/30/53

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

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA-2554 (copper), Arizona Mining Claims

Elko County, Nevada

Glenn G. Gentry, Mining Engineer
U. S. Bureau of Mines

D. C. Laub and R. H. Smith, Geologists
U. S. Geological Survey

October 24, 1952

Docket No.: DMEA-2554 (copper)

Name and address of applicant: L. W. Whitney, Meadows, Idaho

Name and location of property: Arizona Mining Claims
Porter Mining District
Elko County, Nevada

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

Mr. L. W. Whitney, Meadows, Idaho, applied on April 20, 1952 to the Defense Minerals Exploration Administration for government assistance in a $49,315.40 program to explore for the downward continuation of copper ore mined from the Arizona and Morenci claims, Porter Mining District, Elko County, Nev.

A field examination was requested by the Field Team, Region III to determine whether the ore reserves are sufficient to justify the exploratory work proposed by the applicant. The examination was made by an engineer[1/] of the Bureau of Mines and a geologist[2/] of the U. S. Geological Survey on July 21 to 23, 1952. A supplemental examination was made September 1 to inspect new trenches made across the "Checkmate vein" since July 23, and to examine the Arizona shaft which was opened since July 23.

The ore bodies are veins which follow west striking faults in limestone and hornfels of Paleozoic age. The ore is composed of chrysocolla, malachite, and chalcopyrite in a gangue of iron oxide, calcite and jasperoid. The ore mined averaged about 8 percent copper. Two veins have been mined; the Arizona vein 2.5 to 12 feet wide which strikes west and dips 80° south parallel to the bedding planes, and the Hanks vein, which strikes westerly and dips 60° north. Between

---

1/ Glenn G. Gentry.
2/ Roscoe M. Smith and Don C. Laub.

these veins a series of shallow pits, exposing low grade copper ore in discontinuous shoots in several bedding planes, has been called the "Checkmate vein" by the applicant, but the existence of a continuous vein is not demonstrated.

Shafts on the Arizona and Hanks veins are accessible to shallow depths.

There are no measured or indicated ore reserves, but a few hundred tons of low grade copper ore is inferred to be in the Arizona vein and 5,000 tons of low grade copper ore is inferred to be in the Hanks vein.

The applicant proposed to explore the "Checkmate vein" by extending the Whitney adit 1500 feet west along the strike of the vein. Near the west end of the completed adit, he expected to encounter the junction of the Arizona, Hanks, and "Checkmate vein" at a depth of 350 feet below the surface. The existence of the "Checkmate vein" is not demonstrated and the Hanks and Arizona veins probably do not intersect near the altitude of the proposed adit. The work proposed by the applicant is not warranted.

Some exploratory work is warranted, however, to test the lateral extent and downward continuation of the ore bodies that were mined from the Arizona and Hanks shafts. A program consisting of two phases is suggested:

1. Clean out and sample the Arizona shaft, drift 50 feet east and 50 feet west on the vein, and crosscut 50 feet.

2. Clean out and sample the Hanks (No. 3) shaft, drift east and west from the bottom of the shaft a total of 150 feet, and raise 25 feet on the best showing.

Each phase should be contingent upon finding ore during the preceding phase.

This program could be completed in about five months and is estimated to cost $13,875.48

It is recommended that the Government enter into a contract with the applicant to do the proposed work. The Government's share of the cost would be $6,937.74.

DMEA EXAMINATION

The Arizona claims were examined, mapped and sampled by geologists of the U. S. Geological Survey and an engineer of the U. S. Bureau of Mines, Region III on July 21 to 23, 1952. The field team was accompanied by Mr. L. W. Whitney who guided them over the property. Mr. Blaine Hanks, owner of the Arizona claims, was present for one conference at the Whitney camp, but was unable to take any active part during the examination due to illness and previous injury to his legs.

NAME AND LOCATION OF PROPERTY

The property is designated as the Arizona Mining Claims.

a. The claims are located approximately 20 miles southeast of Contact, Nevada.

b. Elko County, Nev.

c. Porter Mining District, Sec. 22, T. 44 N., R. 64 E.

ROAD CONDITIONS

From Contact, Nev., the first 9.3 miles of road is over highway No. 93 which is an all weather road. The remaining distance of approximately 11 miles is over unimproved desert road. About 4 miles of this road is through a narrow canyon. This portion of the road has heavy

grades and the expense of keeping it open during the winter months would be high and require heavy snow removal equipment. The roadway leading from the camp to the mine workings has heavy grades and has only recently been made with a bulldozer. During the inspection it was necessary to use a 4-wheel drive vehicle to reach the mine.

COMPETENCY OF APPLICANT

The applicant has had a very limited experience in mining. During most of his life he has been engaged in farming and ranching in Idaho and in recent years he has optioned and leased several prospects and mines in Oregon, Idaho and Nevada, with the idea of doing a small amount of development work and then leasing or selling to some operating mining company.

Mr. Blaine Hanks, who Mr. Whitney expects to employ to supervise the work on the Arizona claims, states that he has had many years of experience in mining exploration in various western states. However, Mr. Hanks is probably about 73 years of age and is presently unable to take any active part in actual mining operations.

Any program of mining development should be placed under the supervision of a competent mining engineer.

APPLICANT'S PROPERTY RIGHTS

The Arizona, Morenci and Paddy claims are owned by Blaine Hanks who has granted a 5-year lease and option to L. W. Whitney. This option and lease agreement was not available for study.

The Arizona claim was located on June 26, 1881 and is patented. The amended mineral survey on this claims is No. 1615, Lot No. 37.

The Morenci and Paddy claims are unsurveyed and have been held by right of location by Blaine Hanks.

Additional mining claims, adjacent to the Arizona and Morenci, have been recently located by Whitney. These new claims are listed as follows: Granite Annex, Saddle, Gulch and Mill Site, which have not been surveyed or recorded.

DESCRIPTION OF PROPERTY

No buildings are located on the property or in the immediate area. The only surface facilities consist of roadways leading to the Arizona, Hanks and Paddy shafts. The road to the adit of the proposed "Checkmate vein" has not been constructed.

There has been very little work done on the Arizona, Morenci and Paddy claims during the past 40 years.

The Arizona shaft is caved at 13 feet down from the collar and it was impossible to make any examination below that point.

The Hanks shaft on the Morenci claim is caved at 20 feet down from the collar and it was impossible to make any examination below this point.

Other openings on these two claims are partially caved to the extent that complete examination was impossible.

No prospecting or development work has been done on the new claims located by Whitney.

No mining equipment or facilities for the development of the property remain at the property.

GEOLOGY

The rocks in the area are limestone, shaly limestone, shale, and quartzite of Paleozoic age[3] which have been intruded by a granodiorite stock, and by sills and dikes ranging in composition from granodiorite to alaskite. In the contact zone - which is about 1,000 feet wide - the limestone and shaly limestone have been metamorphosed.

The sedimentary rocks have been domed around the stock; in the mine area, which is on the south side of the stock, they strike about N. 70° E. and dip steeply south or are overturned.

The limestone is composed of light gray, massive beds interbedded with dark gray and blue, thin-bedded units, and in this area has a total thickness of about 1,000 feet. Near the contact the limestone is metamorphosed to marble and the shale is metamorphosed to hornfels.

Successively overlying the limestone, and cropping out south of the mine area, are beds of shale, limestone, platy shale, shaly limestone, and quartzite.

The sedimentary rocks are cut by faults which parallel the bedding; one other fault, along the Hanks vein, strikes northwest and may dip steeply northeast. The copper ore bodies are associated with both sets of faults.

ORE DEPOSITS

The ore bodies are narrow veins in the thin-bedded limestone and hornfels and are commonly parallel to the bedding. One vein, the Hanks, (fig. 2) dips steeply north and cuts the limestone beds where it is exposed in the upper part of the No. 3 shaft.

3/ Schrader, F. C., 1935, The Contact Mining District, Nevada: U. S. Geol. Survey Bull. 847-A, p.5.

The ore minerals are chrysocolla, malachite, and chalcopyrite in a gangue of iron oxide, calcite, and - in the Hanks vein - jasperoid. Locally as much as one-half of the copper is in the chalcopyrite.

The ore bodies that have been mined ranged from a few inches to 12 feet in width, extended about 15 feet along the strike and were mined down dip to a depth reported to be 120 feet in the Arizona shaft, and 80 feet in the No. 3 (Hanks) shaft.

About 200 tons of sorted ore was shipped and is reported to average 19 percent copper. The owner estimates that the mine-run ore from the Arizona shaft contained 8 percent copper.

Several veins occur on the property: The Arizona, the Hanks, the "Checkmate", the Bar Eagle, the Contact, and several unnamed veins. Only the first three are included in the proposed exploration.

The Arizona vein (fig. 2) is in hornfels and marble along the footwall of a granitic sill. It is 3.5 feet wide near the top of the shaft and is reported to be as much as 12 feet wide at greater depths; on the No. 1 and No. 2 levels (fig. 3), it is about 10 feet wide, strikes N. 80° E. and dips 65° south parallel to the bedding. B. A. Hanks recalls that the ore in the bottom of the shaft is 8 to 10 inches wide, and that the vein is wider where it is steeper. Two samples (BM-307 and BM-341) gave an average grade of 3.5 percent copper.

The Hanks vein (fig. 2) is in hornfels on the north side of an east-striking jasperoid breccia zone about 250 feet long and as much as 8 feet wide. The dip of the jasperoid is not apparent but the No. 3 shaft inclines 60° north, and No. 4 shaft is nearly vertical. Ore,

reported to average 8 percent copper, was mined to a depth of about 80 feet from these shafts. The ore mined was as much as 8 feet wide and extended along the strike about 10 feet.

The dips of the exposed sections of the Arizona and Hanks veins project to a possible intersection at a depth of 850 feet.

There is insufficient evidence to substantiate the existence of the "Checkmate vein". The applicant stated that the "Checkmate vein" is exposed by five shallow pits (now caved), one caved adit, and by iron oxide float, for a distance of 800 feet along the strike. These workings are shown on figure 2. Copper minerals in place are exposed in two cuts only (near samples BM-342 and BM-306) where a little chrysocolla is exposed in fractures and along bedding planes in white hornfels. The exposures are from 1/2 to 2 feet wide and extend 5 feet along the strike of the beds. Broken rock on the dumps of the other workings contain chrysocolla, malachite, and iron oxide. A 50-foot adit, 250 feet southwest of the portal of the Whitney adit, reveals oxidized copper minerals in fractures in a zone 6 inches to 5 feet wide which extends about 30 feet along the strike of the beds. The applicant stated that this adit is not on the "Checkmate vein". All of the copper occurrences seen along the "Checkmate vein" are parallel to the bedding, most of the pits are sunk on different beds, and no faults or veins can be seen cutting across the beds from one occurrence to another. The iron oxide, associated with these copper showings, is yellow or light brown; it is not the dark brown oxide characteristic of leached chalcopyrite.

The War Eagle and Contact veins are outside of the area of proposed exploration.

SAMPLING

Sample No.	Width/Ft.	% Cu	Ounces/ton Au	Ounces/ton Ag	Description
BM-305	Grab	2.30	0.015	2.50	Grab sample from dump at collar of Paddy shaft. Possibly 150 tons in dump. Dump has probably been sorted many years ago.
BM-306	5.5	1.20	0.01	0.30	Copper stained limestone in shallow pit. Reported as being on the "Checkmate vein".
BM-307	3.5	4.26	Trace	0.20	West side of Arizona shaft at 10 feet below the collar. Shaft caved below this point.
BM-308	Dump	2.40	Trace	0.20	Sample of dump at collar of the Arizona shaft. Possibly 200 tons in dump. The dump is reported to be rejects from ore sorted and shipped in early days.
BM-309	6.0	2.49	Trace	0.25	Hanks shaft. Taken from both sides of shaft at 14 feet below collar. Shaft caved below this point.
BM-310	8.0	9.89	Trace	0.25	Shaft No. 4 on Morenci claim. Taken at 20 feet below collar. Unable to descend further in shaft.
BM-311	Chip	2.57	Trace	0.20	Chip sample 8 feet in width by 115 feet in length over surface exposures and gossan north and south of the Hanks No. 3 shaft. Considered to be on the Hanks vein.
BM-341	7.5	3.41	Trace	Trace	Channel sample. Arizona shaft 43 feet down incline at 15 foot drift.
BM-342	2.1	1.45	0.01	1.80	Surface exposure of limestone in bottom of new open cut 320 feet N. 70° E, 100 feet above Whitney adit.

ORE RESERVES

There are no measured or indicated ore reserves on the Arizona property. A few hundred tons of low grade copper ore may be inferred to be in the Arizona vein fringing the small ore shoot which was mined. In addition, 5,000 tons of low grade copper ore is inferred to be in the Hanks vein in the block 200 feet long, 6 feet wide and extending 100 feet from the surface down the dip of the vein. In making the calculation, it is assumed that one half of the volume of the block will be ore of minable grade, and that 12 cubic feet of ore weighs one ton.

PAST OPERATIONS

The Arizona and Hanks claims were located in the early Seventies. Prospecting and intermittent development continued until sometime in 1916. During this period, Hanks reports that he and others shipped three to four cars of ore having a reported content of 19 percent copper. The mined ore was hand sorted as only the higher grade ores could be shipped at a profit during those years.

MANPOWER, SUPPLIES, ETC.

The nearest source for experienced miners would probably be at Elko, Nevada. However, it might be necessary to attempt to recruit men from Salt Lake City, Utah and/or Boise, Idaho. There is apparently no surplus of mining labor in the area adjacent to the mine.

The greater part of the usual mining supplies and materials can be obtained from Twin Falls, Idaho, approximately 80 miles north of the mine.

Mining machinery could be obtained from either Salt Lake City, Utah and/or Boise, Idaho.

Sufficient water for mining purposes is available from a small creek situated approximately 1.5 miles north of the mine. It would be necessary to haul the water from the creek to the mine by means of barrels or tank truck.

There is no transmitted electric power available in the area. All machinery would therefore have to be powered by either Diesel or gasoline engines.

The current wage scale in the area is about $13.00 per day for miners but due to the isolated district of the mine, it is probable that these wages would not attract competent workmen.

HOUSING

No facilities for housing men exist on the property. Workmen employed until such facilities were provided would probably live in Contact, Nev., and drive back and forth to the mine.

APPLICANT'S PROPOSAL

The applicant has proposed to drive an adit 1,500 feet in length on the "Checkmate vein", construct shop, bunkhouse and cookhouse and to provide necessary machinery and supplies, all at a cost of $49,315.40.

The applicant has advised the Field Team that he is financially able to pay for his share of the project, which would amount to $24,657.70.

There is no surface evidence to establish the existence of the "Checkmate vein". Therefore, this proposal of the applicant is not justified and should be denied.

The Field Team considers that the copper ore in sight in the Arizona and Hanks shaft, together with the copper content of the ores sampled and the possibility of finding additional ore, are sufficient to recommend a moderate exploration program in the amount of $13,875.48 with Government participation of 50%, or $6,937.74.

The suggested exploration program consists of two phases:

Arizona shaft:

Phase I - Erect new headframe
Install hoist, cable and bucket
Install new timbers at the collar of the shaft
Clean out shaft
Install bucket guides
Install ladders in shaft
Drift 50 feet east from the bottom of the shaft
Drift 50 feet west from the bottom of the shaft
Crosscut 50 feet from the west drift

Hanks shaft:

Phase II Erect new headframe
Move hoist, cable and bucket from Arizona shaft to Hanks shaft
Install new timbers at the collar of the shaft
Clean out shaft
Install bucket guides
Install ladders in shaft
Drift 100 feet east from the bottom of the shaft
Drift 50 feet west from the bottom of the shaft
Raise 25 feet on the best showings

Phase I and II - Total:	Drifting	250	feet
	Crosscuts . . .	50	"
	Raise	25	"
		325	"

Arizona shaft: Phase I

Install headframe	3	days
Set up hoist	2	"
Timber at collar	3	"
Construct ladders	1	"
Install ladders	2	"
Install slide timbers	2	"
Install air & water lines in shaft	2	"
	15	"

Preparatory work . . . . . 15 days

1 engineer-supt. @ $500.00/month
2 miners @ 15.00/day, each
1 hoistman @ 15.00/day
1 laborer @ 14.00/day

Shaft: Scale down loose rock in shaft and clean out shaft . . . . . 2 days

150 feet of drifts and crosscut @ 4 feet/day 38 "

Total time . . . . . 55 days

Hanks shaft: Phase II

Install headframe	3 days
Move hoist from Arizona shaft	1 "
Timber at collar of shaft	3 "
Construct ladders	1 "
Install ladders	2 "
Install slide timbers	2 "
Install air and water lines in shaft . . .	2 "
Move compressor from Arizona shaft to Hanks shaft	$\frac{1}{2}$ "
	$14\frac{1}{2}$ "

Preparatory work . . . . . $14\frac{1}{2}$ days

2 miners @ $15.00/day, each
1 laborer @ 14.00/day
1 hoistman @ 15.00/day

Clean out shaft . . . . . 10 days

Drift 150 feet and raise 25 feet @ 4 feet per day . . . . . 44 days

Total time . . . . . 69 days

Allowable costs of project:

a. Independent contracts: None

b. Labor - supervision:

1 mining engineer-supt. @ $500.00 per month - $4\frac{1}{2}$ mo.		$2,250.00
2 miners @ $15.00/day, each, for 124 days		3,720.00
1 hoistman @ $15.00/day " 124 "		1,860.00
1 laborer @ $14.00/day " 124 "		1,736.00
		$9,566.00
Add 14% to cover insurance		1,339.24
		$10,905.24

Total allowable costs:

Labor and supervision	$10,905.24
Operating materials and supplies	1,675.34
Equipment rental	670.00
Equipment furnished by applicant	624.90
	$13,875.48 = $42.693/ft.
Government participation 50%, or	6,937.74

Total allowable time . . . . . 124 working days.

c. Operating materials and supplies:

40	Boxes 40% dynamite @ $22.00 cwt	$ 440.00
6000	Ft. blasting fuse @ $14.25 M	85.50
1000	No. 8 blasting caps @ $2.75 C	22.75
50	Ft. of 3/4-inch air hose, with couplings	28.70
50	Ft. of 1/2-inch water hose, with couplings	23.60
	Detachable drill bits	25.00
	Drill steel - threaded	37.20
1984	Gals. Diesel fuel for hoist and compressor @ $0.18	357.12
496	Gals. gasoline for pickup truck and 4-wheel drive truck @ $0.32	158.72
15	Gals. compressor oil @ $2.50	37.50
	Lubricating oil and cup grease	5.00
1	First aid kit	25.00
1	Wheelbarrow, rubber tire	25.00
50	Ft. of 16 lb. mine rail, with splice bars, (2nd hand)	25.00
4	Shovels, long handle, round point @ $3.50 ea. . . .	14.00
4	Shovels, long handle, square point @ $3.50 ea. . .	14.00
4	Drift picks, handled @ $4.00 ea.	16.00
500	Ft. BM lumber for ladder stock @ $85.00 M	42.50
100	Railroad ties for mine sets @ $0.75 ea. (2nd hand).	75.00
50	Lbs. nails @ $0.15	7.50
500	Mine wedges @ $0.05 ea.	25.00
200	Lbs. miners carbide @ $0.08	16.00
2	Gal. castor machine oil @ $3.00	6.00
	Valves and pipe fittings	10.00
25	Lbs. track spikes @ $0.15	3.75
30	Qts. oil for trucks @ $0.35	10.50
1	Double jack, handled	5.00
1	Single jack, handled	3.00
2	Stilson wrenches, 18-inch @ $5.00	10.00
1	Claw hammer @ $2.50	2.50
2	Miners axes, 4½ lbs., single bit, handled @ $5.00 .	10.00
300	Ft. of 2-inch, black iron pipe, (2nd hand) @ 0.125 .	37.50
300	Ft. of 1-inch, " " " " " @ $0.07 .	21.00
	Misc. small supplies	50.00
		$1,675.34

d. Operating equipment: To be rented

1 Mine hoist, powered by Diesel engine - $100.00/mo. with 250 feet of 5/8-inch steel cable and shaft bucket	$500.00
1 Drifter drill, 3-inch with column and bar	100.00
1 Stopehammer, for 10 day period	20.00
1 Mine car, end dump, 15 cu. ft. capacity, 18-inch track gauge (2nd hand) @ $10.00/month	50.00
	$670.00

To be furnished by applicant

1 Gardner-Denver Co., air compressor, 285 cfm, powered by 50-horsepower Diesel, engine (used) estimated value $4,000 @ 1/60 = 66.66/mo., 5 mo.	$333.30
1 Pickup truck, 3/4-ton capacity (used) estimated value $1,000 @ 1/60 = 16.66/mo., 5 mo.	83.30
1 4-wheel drive truck, (used) estimated value $2,500 @ 1/60 = 41.66/mo., 5 mo.	208.30
	$624.90

Total . . . $1,294.90

The Field Team consider the type of exploration by drifting, cross-cutting and raising will secure more information than diamond drilling because the ore deposit is oxidized and because very little core would be expected through the ore zone.

If the contract is approved, it is recommended that an experienced mining engineer be employed as the full time superintendent and that he shall have active charge of the operations and be responsible for the sampling, preparation of necessary maps and monthly reports.

Due to the lateness of the season and the isolation of the district, it is further recommended that no work be started prior to May 1, 1953.

Consideration should also be given to contracting the exploration project on a footage basis, with the applicant to furnish all equipment and supplies for the project.

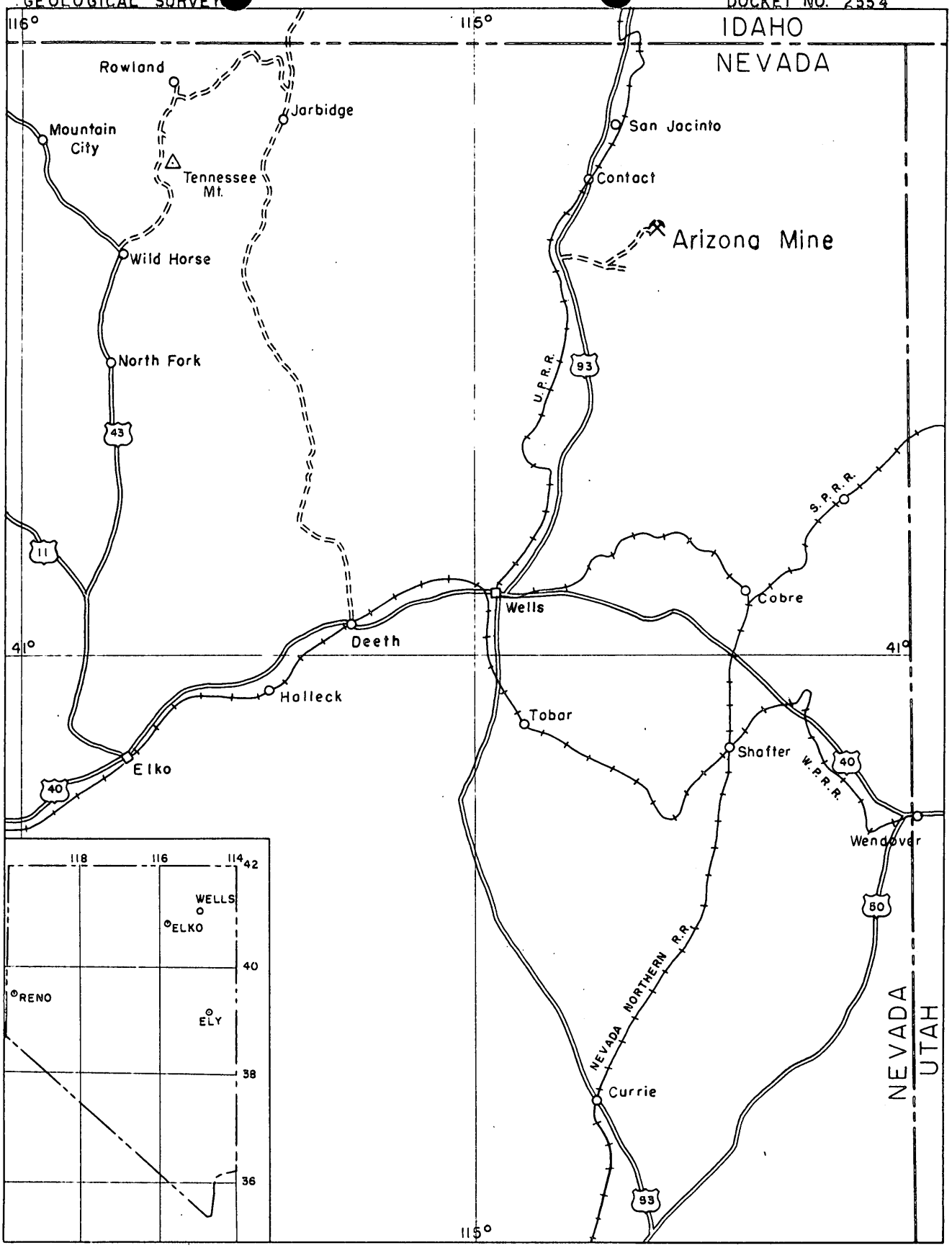
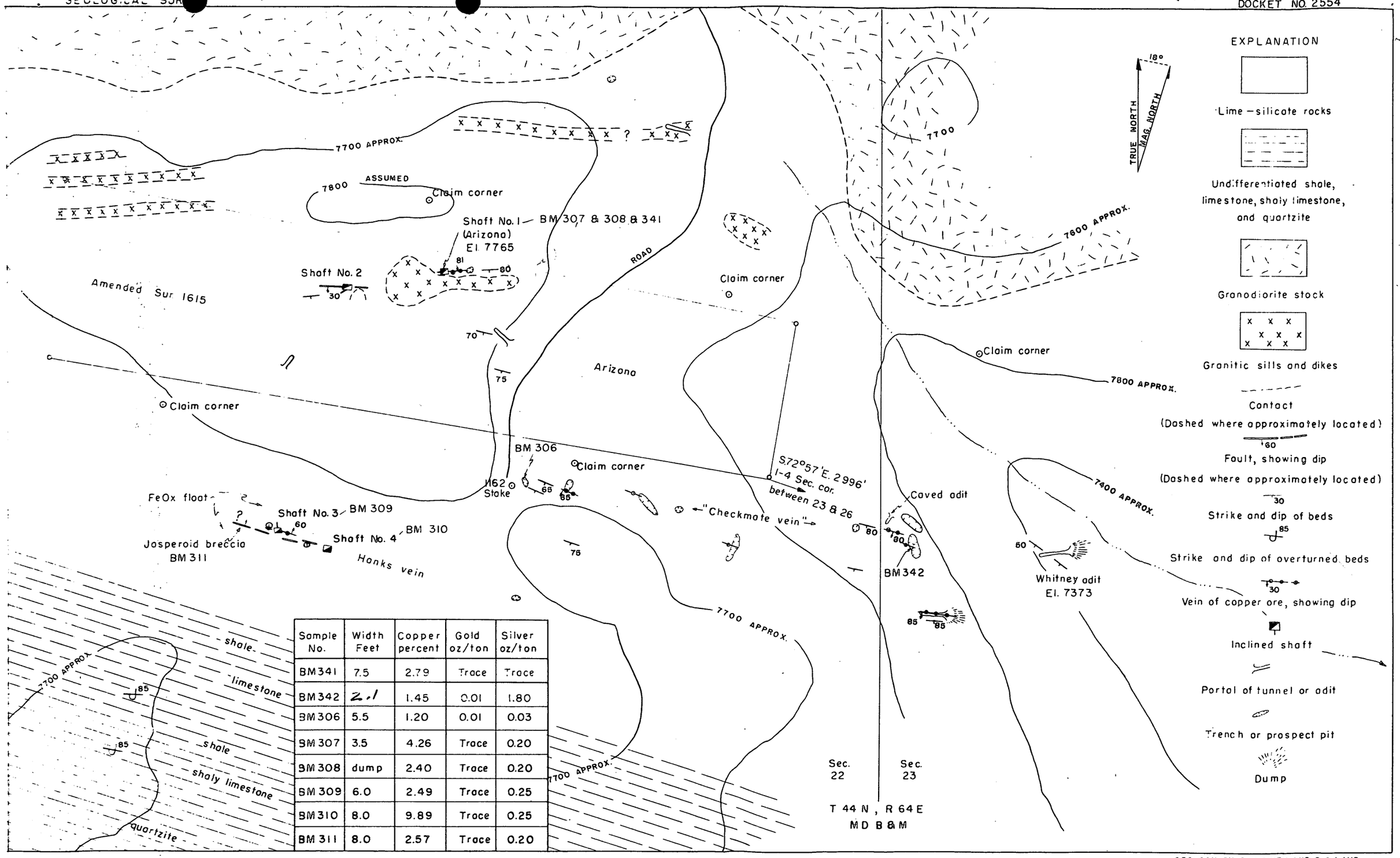


FIG. 1 INDEX MAP OF NEVADA

0 10 20 30 40 Miles

Scale 1:1,000,000



Sample No.	Width Feet	Copper percent	Gold oz/ton	Silver oz/ton
BM341	7.5	2.79	Trace	Trace
BM342	2.1	1.45	0.01	1.80
BM306	5.5	1.20	0.01	0.03
BM307	3.5	4.26	Trace	0.20
BM308	dump	2.40	Trace	0.20
BM309	6.0	2.49	Trace	0.25
BM310	8.0	9.89	Trace	0.25
BM311	8.0	2.57	Trace	0.20

GEOLOGY BY R. M. SMITH AND D. C. LAUB

FIG. 2

GEOLOGIC SKETCH MAP OF THE ARIZONA CLAIM

PORTER MINING DISTRICT, ELKO COUNTY, NEVADA

0 200 400 FEET
Scale

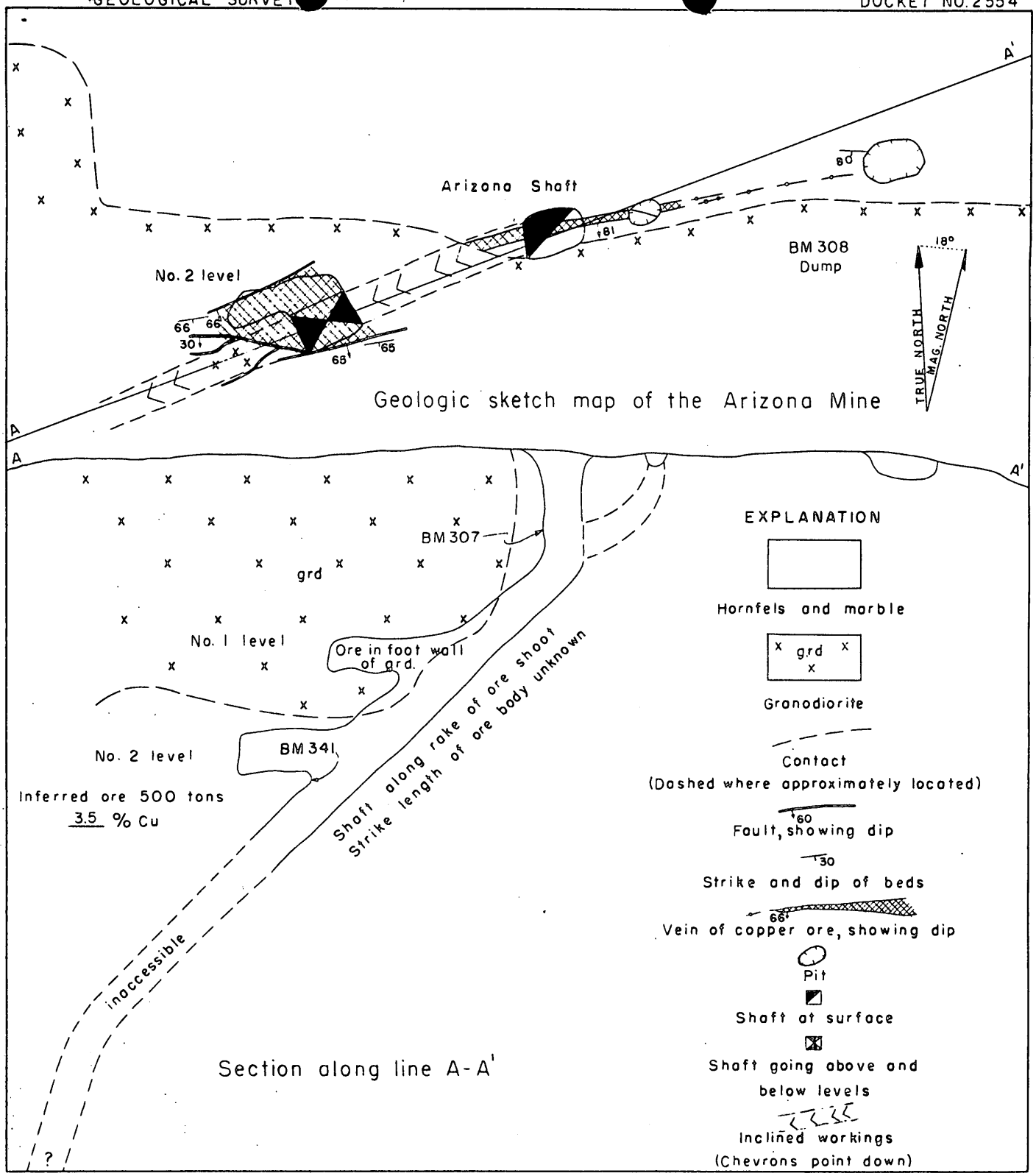


FIG. 3 GEOLOGIC SKETCH MAP AND SECTION

ARIZONA MINE, PORTER MINING DISTRICT

ELKO COUNTY, NEVADA

0 20 40 FEET
Scale

L.W.Whitney tent Camp
on the Arizona Claims

View of the Arizona Shaft
and dumps

Portal of Adit through which
the Applicant proposes to
explore the Checkmate Vein

C
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Y

LOCATION CERTIFICATE

KNOW ALL MEN BY THESE PRESENTS: That the undersigned owner of the lode hereinafter described in order to complete and perfect his location and the title thereto does hereby certify:

1. The name of the lode or vein is MORENCIO
2. The name of the locator- B.A.HANKS
3. The date of the location was MARCH 25th 1942
4. The said claim is situated in the PORTIS mining District, ELKO County, Nevada; and is situated ON THE EASTERN END OF THE WHITE PEAKS RANGE and parallels the Arizona Patented lcima on the south side
5. The number of linear feet westerly direction from the point of discovery is 210 and the number claimed in a easterly direction is 1290 from the point of discovery, together with 300 feet on each side of the vein.
6. As near as may now be given the general course of the lode or vein is easterly and westerly.
7. The discovery shaft or its equivalent sunk upon the claim is situated App. 750 ft. easterly from the discovery, it consists of open cut at least 4 x 6 x 10 ft and shows therein a lode deposit of mineral in place.

8. The corners and side-centers are located and marked as follows:

At and for North East corner is a post 4" x 4" x 5 ft long marked N.E. corner Morencio Mining Claim

At and for North West corner is a post 4" x 4" x 5 ft long marked N.W. corner Morencio Mining Claim

At and South West corner is a post 4" x 4" x 5 ft long marked S.W. corner Morencio Mining Claim

At and for South East corner is a post 4" x 4" x 5 ft long marked S.E. corner Morencio Mining Claim

At and for side-center on North side line is a post marked North side-center.

At and for side-center on South side line is a post marked South side-center.

Dated this 9th day of May, 1942.

/s/ B. A. Hanks

Locators

File No. 78314

State of Nevada)
)
County of Elko)

Filed for record at the request
of B. A. Hanks
on the 11 day of May, 1942
at 9:07 o'clock A.M. and
recorded in Book 27 Mining Locations
Page 49
Records of said County

Gertrude Williams
County Recorder

C
O
P
Y

LOCATION CERTIFICATE

- - - -

KNOW ALL MEN BY THESE PRESENTS: That the undersigned owner of the lode hereinafter described in order to complete and perfect his location and the title thereto does hereby certify:

1. The name of the lode or vein is PADDY
2. The name of the Locator- B.A.HANKS
3. The date of the location was MARCH 25th, 1942
4. The said claim is situated in the Portis mining District, Elko County, Nevada; and is situated in township 44 North Range 64 east, Section 23, and near War Eagle gulch and joins the Morencio claim on the west end line of the Paddy
5. The number of linear feet claimed in a westerly direction from the point of discovery is 1390 and the number claimed in a easterly direction is 110 from the point of discovery, together with 300 feet on each side of the vein.
6. As near as may now be given the general course of the lode or vein is Easterly and Westerly
7. The discovery shaft or its equivalent sunk upon the claim is situated 60 ft. app. southerly from the discovery, it consists of open cut at least 16' by 4' x 4' and shows therein a lode deposit of mineral in place.
8. The corners and side-centers are located and marked as follows:

At and for North East corner is a post 4 by 4" by 5'
marked N.E. corner Paddy Mining Claim

At and for North West corner is a post 4" by 4" x 5'
marked N.W. corner Paddy Mining Claim

At and for South West corner is a post 4"x4"x5'
marked S.W. corner Paddy Mining Claim

At and for South East corner is a post 4"x4"x5'
marked S.E. corner Paddy Mining Claim

At and for side-center on north side line is a post marked North side-center.

At and for side-center on South side line is a post marked South side-center.

Dated this 9th day of May, 1942.

s/s B. A. Hanks

Locators

File Number 78315

STATE OF NEVADA)
)
County of Elko)

Filed for record at request of

B.A.Hanks on the 11 day of May 1942
at 9.09 O'clock A.M.
Recorded in Book 27 Mining Locations
Page 49 to 50 inclusive,
Records of said County.

Gertrude Williams
County Recorder.

6-copies

Memmo of Agreement

Between Ba A. Hanks, of Contact, Nevada, party of the first part, and L. W. Whitney of Meadows, Idaho, party of the second part.

Witnesseth:

Whereas the party of the first part is the owner of the Morencia Mining claim, situated in the Potter Mining District, Elko Co. Nevada, which is one of a group of three claims, consisting of the Morencia, and Paddy, (unpatented) and the Arizona patented claim, known loc ally as the Arizona Mines. The party of the first part agrees to obtain a lease and option on the Arizona patented claim, at purchase price of $20,000.00 to be paid from a royalty of ten percent gross smelter returns, less smelter charges, to the owner, Mrs. ~~W. M.~~ Bessie H. Wootten.

Also an option on the Paddy claim, for $10,000.00 to be paid by a royalty of 10 percent gross smelter returns, less smelter charges, or by a percentage of stock in the mine, amount to be decided on at a later date, from the owner, T. J. Canavon, of Portland, Oregon.

The lease and option on these two claims will be for a term of five years, unless mine stock is issued to Mr. T. J. Canavon, and under nominal conditions as to work to be done, as is usual in such options, assesment preformed and taxes paid.

The party of the first part agrees to include the Morencia claim in the deal, without royalty, and also if the Checkmate tunnel is extended as shown on the map for 1200 feet the Morencia will be included in the deal without further compensation to the party of the first part.

The party of the second part agrees to extend the Arizona tunnel below shaft to intersection with the Arizona vein, approximately 100 ft. Also to defray expences incidental to taking out ore until the said ore will pay its own cost of development.

Provided however, that the party of the second part can discontinue

this work at any time after reaching the vein, if in his judgement he considers it unprofitable.

It is further agreed by the party of the first part, that said party of the second part shall be reimbursed for all moneys expended by him, by, at such a time from net profits accruing from this operation, that is in amount not to jeopradize the regular mining operation. When the second party has been fully compensated for his expenditures, all profits and options shall be held equally between both parties.

It is further agreed that these options, claims and priveleges be placed in a small company for the purpose of defining their respective interests. The party of the first agrees to supervise the operation. The party of the second agrees to act as treasurer, and will attend to royalty payments, and reciepts of smelter settlements.

It is further agreed by both parties to make application for government loan for the purpose of extending the Checkmate tunnel 1200 ft. and such cross cutting as may be deemed necessary. Amount of loan to be applied for is ~~$50,000.00~~.

It is further agreed that any new claims filed on, in connection with the Arizona mine, shall become a part of, and belong to the company.

Time is the essence of this agreement and each and every clause herein, and this contract shall be binding upon tha inure to the benefit of the parties hereto and their respective heirs, successors, administrators, and assigns.

IN WIRNESS WHEROF, the parties hereto have set their hands and seals to triplicates hereof on this 21 day of January, 1952.

Signed L. W. Whitney _____

B. A. Hanks

_____

Notary Public for
My Commision Expires_____

Memo of Agreement

Between B. A. Hanks, of Contact, Nevada, party of the first part, and L. W. Whitney of Meadows, Idaho, party of the second part.

Witnesseth:

Whereas the party of the first part is the owner of the Heroneia Mining claim, situated in the Potter Mining District, Elko Co. Nevada, which is one of a group of three claims, consisting of the Heroneia, and Paddy, (unpatented) and the Arizona patented claim, known locally as the Arizona Mines. The party of the first part agrees to obtain a lease and option on the Arizona patented claim, at purchase price of $20,000.00 to be paid from a royalty of ten percent gross smelter returns, less smelter charges, to the owner, Mrs. [illegible] Scotten.

Also an option on the Paddy claim, for $10,000.00 to be paid by a royalty of 10 percent gross smelter returns, less smelter charges, or by a percentage of stock in the mine, amount to be decided on at a later date, from the owner, T. J. Canavor, of Portland, Oregon.

The lease and option on these two claims will be for a term of five years, unless mine stock is issued to Mr. T. J. Canavor, and under normal conditions as to work to be done, as is usual in such options, assessment preformed and taxes paid.

The party of the first part agrees to include the Heroneia claim in the deal, without royalty, and also if the Checkmate tunnel is extended as shown on the map for 1200 feet the Heroneia will be included in the deal without further compensation to the party of the first part.

The party of the second part agrees to extend the Arizona tunnel below shaft to intersection with the Arizona vein, approximately 100 ft. Also to defray expences incidental to taking out ore until the said ore will pay its own cost of development.

Provided however, that the party of the second part can discontinue

this work at any time after reaching the vein, if in his judgement he considers it unprofitable.

It is further agreed by the party of the first part, that said party of the second part shall be reimbursed for all moneys expended by him, by, at such a time from net profits accruing from this operation, that is in amount not to jeopradize the regular mining operation. When the second party has been fully compensated for his expenditures, all profits and options shall be held equally between both parties.

It is further agreed that these options, claims and privelegeo be placed in a small company for the purpose of defining their respective interests. The party of the first agrees to supervise the operation. The party of the second agrees to act as treasurer, and will attend to royalty payments, and receipts of monthly settlements.

It is further agreed by both parties to make application for government loan for the purpose of extending the Checkmate tunnel 1200 ft. and such cross cutting as may be deemed necessary. Amount of loan to be applied for is $50,000.00.

It is further agreed that any new claims filed on, in correction with the Arizona mine, shall become a part of, and belong to the company.

Time is the essence of this agreement and each and every clause herein, and this contract shall be binding upon the inure to the benefit of the parties hereto and their respective heirs, successors, administrators, and assigns.

IN WITNESS WHEREOF, the parties hereto have set their hands and seals to triplicates hereof on this 21 day of January, 1952.

Signed L. W. Whitney

B. A. Hanks

Notary Public for
My Commision Expires

Terms of Agreement

Between R. A. Banks, of Carson, Nevada, party of the first part, and L. E. Whitney of London, Idaho, part of the second part.

Witnesseth:

Whereas the party of the first part is the owner of the Arizona Mining claim, situated in the Cutter Mining District, Elko Co. Nevada, which is one of a group of three mining claims, the other being of the Veranda, and Paddy, (unpatented) and the Nine patented claims, known locally as the Arizona Group. The party of the first part agrees to sell the leases and option on the Arizona [illegible], at present price of $20,000.00 to be paid from a royalty of [illegible] per ton, [illegible] charges, to the owner, Mr. Bessie A [illegible]

Also an option on the [illegible], for 20,000.00 [illegible] royalty of 10 percent gross [illegible], long [illegible] of mine, or for a percentage of stock in the [illegible], [illegible] to be decided [illegible] date, from the owner, R. A. Banks, [illegible] program.

The leases and option on the claims will be for a term of five years, unless mine stock is [illegible] R. A. Banks [illegible] and under normal conditions as to work to be done, [illegible] usual in such options, a [illegible] preferred and taxes paid.

The party of the first part [illegible] to include the Veranda claim in the deal, without royalty, [illegible] the discrete travel is extended as shown on the map for 1250 feet the Veranda will be included in the deal without further engagement [illegible] by of the first part.

The party of the second part [illegible] to extend the Arizona tunnel below shaft to intersection with the [illegible] vein, approximately 100 ft. Also to defray expenses incidental to taking out ore, part 1 the said ore will pay its own cost of development.

Provided however, that the [illegible] of the second part can discontinue

this work at any time after [illegible], it in his judgment he considers it unprofitable.

It is further agreed [illegible] the first party, that said party of the second part shall be [illegible] expended by him, by, at such a time then not [illegible] [illegible], that it is meant not to jeopardize [illegible] mining operations. [illegible] said party has been fully [illegible] expenditure, all profits and options shall be held equally [illegible] as also.

It is further agreed that these options, claims and properties placed in a trust company for the purpose of defining their respective interests. The party of the [illegible] to be [illegible] the [illegible]. The party of the second [illegible] [illegible], and all [illegible] to royalty payments, and receipts [illegible] subscribers.

It is further agreed [illegible] the [illegible] the [illegible] [illegible] for the purpose of [illegible] [illegible] and such crown cutting [illegible] [illegible]. [illegible] of [illegible] to be applied for to ~~[illegible]~~.00.

It is further agreed that [illegible] filed [illegible], in connection with the [illegible] mine, shall become [illegible], [illegible] to [illegible] only.

This is the [illegible] [illegible] and every clause hereof, and this contract shall [illegible] parties hereto and their [illegible], successors, [illegible] and assigns.

IN WITNESS [illegible], the parties hereto have [illegible] their hands and seals to triplicates hereof on this [illegible] January, 1928.

Signed [illegible]

H. J. Hartley

[illegible]
[illegible]

Memo of Agreement

Between M. A. Hanks, of Contact, Nevada, party of the first part, and L. W. Whitney of Meadows, Idaho, party of the second part.

Witnesseth:

Whereas the party of the first part is the owner of the Moroncia Mining claim, situated in the Porter Mining District, Elko Co. Nevada, which is one of a group of three claims, consisting of the Moroncia, and Paddy, (unpatented) and the Arizona patented claim, known locally as the Arizona Mines. The party of the first part agrees to obtain a lease and option on the Arizona patented claim, at purchase price of $20,000.00 to be paid from a royalty of ten percent gross smelter returns, less smelter charges, to the owner, Mrs. Bessie K. Scotton.

Also, an option on the Paddy claim, for $10,000.00 to be paid by a royalty of 10% gross smelter returns, less smelter charges, or by a percentage of stock in the mine, amount to be decided on at a later date, from the owner, T. J. Canavon, of Portland, Oregon.

The lease and option on these two claims will be for a term of five years, unless mine stock is issued to Mr. T. J. Canavon, and under nominal conditions as to work to be done, as is usual in such options, assessment preformed and taxes paid.

The party of the first part agrees to include the Moroncia claim in the deal, without royalty, and also if the Checkmate tunnel is extended as shown on the map for 1200 feet the Moroncia will be included in the deal without further compensation to the party of the first part.

The party of the second part agrees to extend the Arizona tunnel below shaft to intersection with the Arizona vein, approximately 100 ft. Also to defray expenses incidental to taking out ore until the said ore will pay its own cost of development.

Provided however, that the party of the second part can discontinue

this work at any time after [illegible] the vein, if in his judgment he considers it unprofitable.

It is further agreed by the [illegible] of the first part, that said party of the second part shall [illegible] all money [illegible] by, at such a time from out [illegible] operation, that is in amount not to jeopardize the regular monthly operation. [illegible] second party has [illegible] fully [illegible] for his expenditures, all profits and options shall be held equally [illegible] both parties.

It is further agreed [illegible] placed in a small company [illegible] of [illegible] their respective interests. The party of the [illegible] to supervise the operation. The party of the second agrees [illegible] and will attend to royalty payments, and receipts [illegible] agreements.

It is further agreed by [illegible] to make application for government loan for the purpose of [illegible] the [illegible] and such crop cutting as [illegible] only. Amount of loan to be applied for is $50,000.00.

It is further agreed that [illegible] filed on, in connection with the Arizona mine, shall [illegible] and belong to the company.

This is the consideration and [illegible] and every of the herein, and this contract shall be binding on and inure to the benefit of the parties hereto and their respective heirs, successors, administrators, and assigns.

IN WITNESS WHEREOF, the parties have set their hands and seals to triplicate hereof on this [illegible] January, 1952.

Signed L. L. Gibney

F. A. Banks

Party of the first
by Consolidation Ltd. Inc.

LEASE and OPTION

Made and entered into this 21th day of January, 1952 by and between Bessie H. Wootten of Berkely Alemeda County State of California, party of the first, hereinafter refered to, as the Optionor, and L. W. Whitney, of Meadows, Adams County State of Idaho party of the second, hereinafter refered to as the Optinee.

Witnesseth:

That the Optionor is the owner of the Arizona Patented Mining Claim located in the Porter Mining District, Elko County, Nevado U. S. Patent survey no. 1615-Lot 37.

The Optinee desires a lease and option to purchase said property, under the terms and conditions herinafter set forth, now, therefor, for, and in consideration of five ($5.00), receipt of which is hereby acknowledged, and the premises and covenants hereinafter contained, by the respective parties hereto to be kept and performed, it is mutually covenanted and agreed by the parties hereto, as follows;

1. Optinor gives and grants to Optionee, the exclusive right and option to purchase the before mentiones Arizona patented Mining Claim, premises and property for the sum of Twenty thousand dollars ($20,000.00) lawful money of the United States, to be paid under and upon the following terms.

A royalty of ten per cent (10%) upon all smelter, mill settlements or from any sale of ore, concentrates or bullion that may be produces this is based on the gross value less, smelter charges, said royalty shall apply on the purchase price due hereunder.

All such payments shall be paid within ten days of receipt of settlements together with a copy of said transaction and mailed direct to the Optionors address, 2501 Benvenue Avenue, Riveria Apartments Berkely, California or to her designed agent as Optionor may request. This to continue until the full purchase price has been paid, or this option relinquished, the Optionee shall have the right to pay all or any part, of the purchas price at any time, less royalities paid during the life of this agreement, upon the recept of the full amount due under this agreement Optionor shall delever a warranty deed for said property.

2. This option shall be for five years from date, under express conditions that all terms, premises and covants are complied with.

3. Optionee shall have until July first 1952, to begin work on said property.

4. Optionee shall perform or causes to be performed at least 30 shifts of work upon said property per month during the life of this agreement beginning July 1, 1952.

5. Optionee shall have immediate right of possession to said mining claim, premises and property, above and below surface, upon execution of this agreement, and may continue in possession and carry on exploration and development work or mining and milling operations thereon, but all work must be done in a manner consistent with good mining practice. Optionee shall have the right to continue in such possession so long as he shall not be in default of any and a ll of the terms of this agreement by him to be krpy snf prtgotmrf.

6. The developement work shall be performed as hereinbefore agreed unless the party of the second part is obliged to discontinue work on account of conditions beyond the control of ordinary mankind-such matters as strikes, fires and acts of God.

7. The Nevada laws as to employees' insurance shall be strictly complied with before said employees are placed at work by Optionee; also the safety

regulations required by the State of Nevada shall be strictly complied with by the Optionee.

8. Optionor or his accredited agent may have access to all books, records, and mine workings at reasonable times for the purpose of inspection.

9. Optionee will pay all claims for wages, supplies and operation costs incurred while working hereunder, and hold said Optionr harmless from all liens for labor, materials or any expenditures contracted by him, and shall keep proper notices posted on the premises at all times to this effect.

10. This agreement is intended to be a lease and option, and Optionee may forfeit his rights hereunder and surrender the property to the owners by giving them thirty days written notice to that effect. He will also have thirty days to remove his machinery, supplies and personal property.

In case of such surrender any and all royalty payments that may have been made or made or may be then due from ore previously mined shall be forfeited and accepted by the Optionor as liquidated damages for the use of the property.

11. All notices hereafter to be given to first party hereunder shall be considered as having been given when sent to herbt ordinary mail addressed to 2501-Benvenue Avenue Berkley, California, and notices given to second party shall be considered as having been made when sent to him be registered mail addressed at post office Meadows, Idaho.

12. Optionee further agrees that he will pay taxed when due.

13. It is further agreed that all buildings, development work, track, rails and other perment improvements and fustures placed upon said property by the Optionee (as distinguished from machinery, supplies and personal property) shall becone and be considered a part of the said mining property and shall revert to and remain the property of the Optionor in the event of any termination or abandonment of this lease and option.

14. If the Optionee shall fail to pay the said purchase price at the time and in the manner as hereinabove provided or fail to keep and perform any of the other terms and conditions hereof on his part to be kept and performed, then the Optionor may, at his election, terminate this agreement by giving thirty days prior notice in writing to the Optionee of his intention so to do. Provided, however, that if within said thirty days period after the giving of such notice, the Optionee makes such payment or corrects such other default, this agreement shall then be considered re-instated and in good standing. However, upon failure of the Optionee to correct the same within said period this lease and option will then be terminated and at an end and all rights of Optionee hereunder forfeited and in the event of such termination, all payments theretofore made upon said purchase price (royalty or otherwise) shall remain the property of the Optionor and be treated as liquidated damges for the failure of Optionee to perform the terms of this contract and Optionor shall be entitled to forthwith regain the possession of said premises, and any deed and abstract deposited in escrow shall be returned to him, provided that such termination shall in no mannor release the Optionee from his obligation and liability to pay and satisfy in full all lieneble indebtedness incurred up to the time of such termination or to account for any pay over all royalties accrued or to accrue from ore taken form such property up to such time.

15. Time is the essence of this aggreement and each and every clause herein, and this contract shall be binding upon and inure to the benefit of the parties hereto and their respective heirs, successors, administrators, and assigns.

IN WITNESS WHEREOF, the parties hereto have hereunto set their hands and seals to triplicates hereof the day and year first hereinabove written.

Bessie H. Wootten
Optionor

L. W. Whitney
Optionee

STATE OF IDAHO)
) SS.
County of Vally)

On this 21 day of January, 1952, before me, the undersigned, a Notary Public, in and for the said county and state, personally appeared the within named L. W. Whitney, who is known to me to be the identical person who executed the foregoing instrument, and acknowledged to me that it was his free and voluntary act.

IN WIRNESS WHEROF, I have hereunto set my hand and affixed my official seal to triplicates on this 21 day of January, 1952.

Neal Boydstun
Notary Public for
My Commission Expires May 6, 1953

Washington D. C.)
) SS.
COUNTY OF_____)

On this 29 day of January, 1952, before me, the undersigned, a Notary Public, in and for the said county and State, personally appeared the within named Bessie H. Wootten, who is known to me to be the identical person who executed the foregoing instrument, and acknowledged to me to be her free and voluntary act.

IN WITNESS WHEROF, I have hereunto set my hand and affixed my offical seal, to the triplicates hereof on this 29 day of January, 1952.

Byrd C. Reid
Notary Public for
My Commission Expires 11/14/55

Made and entered into this 21st day of January, 1952 by and between Lonzie L. Jostton of Berkely, **Alemeda County**, State of California, party of the first, hereinafter referred to, as the Optioner, and [illegible] Mining, of Gardena, Adams County State of [illegible] party of the second, hereinafter referred to as the Optiree.

Witnesseth:

That the Optioner is the owner of the Arizona Patented Mining Claim located in the Porter Mining District, [illegible] County, Nevada U. S. Patent survey no. 1615-Lot 37.

The Optiree desires a lease and option to purchase said property, under the terms and conditions hereinafter set forth, now, therefore, for, and in consideration of five ($5.00), receipt of which is hereby acknowledged, and the promises and covenants hereinafter contained, by the respective parties hereto to be kept and performed, it is mutually covenanted and agreed by the parties hereto, as follows:

1. Optioner gives and grants to Optiree, the exclusive right and option to purchase the before mentioned patented mining claim, premises and property for the sum of Twenty Thousand dollars ($20,000.00) lawful money of the United States, to be paid [illegible] as follows the full sum.

A royalty of ten per cent (10%) upon all dealer, mill settlements or from any sale of ore, concentrates or [illegible] to be produced. This is based on the gross value [illegible] charge, said royalty to be apply on the purchase price [illegible].

All such payments shall be paid within ten days of receipt of settlements together with a copy of said transaction and mailed direct to the Optioners address, 2501 Benvenue Avenue, Riverside Apartments Berkely, California or to her designed agent as Optioner may request. This to continue until the full purchase price has been paid, or this option relinquished, the Optionee shall have the right to pay all or any part, of the purchase price at any time, less royalities paid during the life of this agreement, upon the receipt of the full amount due under this agreement Optioner shall deliver a warranty deed for said property.

2. This option shall be for five years from date, under express conditions that all terms, premises and covents are complied with.

3. Optionee shall have until July first 1952, to begin work on said property.

4. Optionee shall perform or cause to be performed at least 30 shifts of work upon said property per month during the life of this agreement beginning July 1, 1952.

5. Optionee shall have immediate right of possession to said mining claim, premises and property, above and below surface, upon execution of this agreement, and may continue in possession and carry on exploration and development work or mining and milling operations thereon, but all work must be done in a manner consistent with good mining practice. Optionee shall have the right to continue in such possession so long as he shall not be in default of any and all of the terms of this agreement by him to be krpy rnf prtgotnrf.

6. The developement work shall be performed as hereinbefore agreed unless the party of the second part is hindered or prevented work on account of conditions beyond the control of ordinary mankind-such matters as strikes, fires and acts of God.

7. The Nevada laws as to employees' insurance shall be strictly complied with before said employees are placed at work by Optionee; also the safety

regulations required by the State of Nevada shall be strictly complied with by the Optionee.

8. Optioner or his accredited agent may have access to all books, records, and mine workings at reasonable times for the purpose of inspection.

9. Optionee will pay all claims for labor, supplies and other expenses incurred while working hereunder, and hold said optioner harmless from all liens for labor, materials or any expenditures contracted by him, and shall keep proper notices posted on the premises at all times to this effect.

10. This agreement is intended to be a lease and option, and Optionee may forfeit his rights hereunder and surrender the property to the owners by giving them thirty days written notice to that effect. He will also have thirty days to remove his machinery, supplies and personal property.

In case of such surrender any and all royalty payments that may have been made or made or paid to them and from ore previously mined shall be forfeited and accepted by the Optioner as liquidated damages for the use of the property.

11. All notices hereafter to be given to first party hereunder shall be considered as having been given when sent to her at ordinary mail addressed to 2501- Benvenue Avenue Berkeley, California, and notices given to second party shall be considered as having been made when sent to him by registered mail addressed at post office Meadows, Idaho.

12. Optionee further agrees that he will pay taxes when due.

13. It is further agreed that all buildings, development work, track, rails and other permanent improvements and fixtures placed upon said property by the Optionee (as distinguished from machinery, supplies and personal property) shall become and be considered a part of the said mining property and shall revert to and remain the property of the Optioner in the event of any termination or abandonment of this lease and option.

14. If the Optionee shall fail to pay the said purchase price at the time and in the manner as hereinabove provided or fail to keep and perform any of the other terms and conditions hereof on his part to be kept and performed, then the Optioner may, at his election, terminate this agreement by giving thirty days prior notice in writing to the Optionee of his intention so to do. Provided, however, that if within said thirty days period after the giving of such notice, the Optioree makes such payment or corrects such other default, this agreement shall then be considered re-instated and in good standing. However, upon failure of the Optionee to correct the same within said period this lease and option will then be terminated and at an end and all rights of Optionee hereunder forfeited and in the event of such termination, all payments theretofore made upon said purchase price (regularly or otherwise) shall remain the property of the Optioner and be treated as liquid tod damges for the failure of Optionee to perform the terms of this contract and Optioner shall be entitled to forthwith regain the possession of said premises, and any deed and abstract deposited in escrow shall be returned to him, provided that such termination shall in no manner release the Optionee from his obligation and liability to pay and satisfy in full all liens le indebtedness incurred up to the time of such termination or to account for any pay over all royalties accrued or to accrue from ore taken from such property up to such time.

15. Time is the essence of this agreement and each and every clause herein, and this contract shall be binding upon and inure to the benefit of the parties hereto and their respective heirs, successors, administrators, and assigns.

IN WITNESS WHEREOF, the parties hereto have hereunto set their hands and seals to triplicates hereof the day and year first hereinabove written.

Harold E. Heaton
Optionor

L. L. Whitney
Optionee

STATE OF IDAHO)
) ss.
County of Valley)

On this 21 day of January, 1952, before me, the undersigned, a Notary Public, in and for said County and State, personally appeared the within named L. L. Whitney, who is known to me to be the identical person who executed the foregoing instrument, and acknowledged to me that it was his free and voluntary act.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal to triplicate hereof on this 21 day of January, 1952.

Earl Christian
Notary Public for
My Commission Expires Dec. 20, 1953

Washington D. C.)
) ss.
County of _____)

On this 29 day of January, 1952, before me, the undersigned, a Notary Public, in and for the said County and State, personally appeared the within named Harold E. Heaton, who is known to me to be the identical person who executed the foregoing instrument, and acknowledged to me to be his free and voluntary act.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, to the triplicates hereof on this 29 day of January, 1952.

Fred G. Gold
Notary Public for
My Commission Expires 11/14/55

Made and entered into this 21th day of January, 1952 by and between Bessie M. Wootton of Berkeley Alemeda County State of California, party of the first, hereinafter referred to, as the Optioner, and L. A. Whitney, of Meadows, Adams County State of Idaho party of the second, hereinafter referred to as the Optiree.

Witnesseth:

That the Optioner is the owner of the Arizona Interto Mining Claim located in the Porter Mining District, Elko County, Nevada U. S. Patent survey no. 1615-Lot 37.

The Optiree desires a lease and option to purchase said property, under the terms and conditions hereinafter set forth, now, therefore, for, and in consideration of five ($5.00), receipt of which is hereby acknowledged, and the promises and covenants hereinafter contained, by the respective parties hereto to be kept and performed, it is mutually covenanted and agreed by the parties hereto, as follows;

1. Optioner gives and grants to Optiree, the exclusive right and option to purchase the before mentioned Arizona Interto Mining Claim, premises and property for the sum of twenty thousand dollars ($20,000.00) lawful money of the United States, to be paid upon and upon the following terms.

A royalty of ten per cent (10%) upon all smelter, mill settlements or from any sale of ore, concentrates or bullion that may be produced this is based on the gross value here, before charges, said royalty shall apply on the purchase price due hereunder.

All such payments shall be paid within ten days of receipt of settlements together with a copy of said transaction and mailed direct to the Optionors address, 2501 Benvenue Avenue, Apartments Berkely, California or to her designee, unless Optionor may request. This to continue until the full purchase price has been paid, or this option relinquished, the Optionee shall have the right to pay all or any part, of the purchase price at any time, less royalities paid during the life of this agreement, upon the recept of the full amount due under this agreement Optionor shall delever a warranty deed for said property.

2. This option shall be for five years from date, under express conditions that all terms, premises and covenants be complied with.

3. Optineeshall have until July first 1952, to begin work on said property.

4. Optionee shall perform or caused to be performed at least 30 shifts of work upon said property per month during the life of this agreement beginning July 1, 1952.

5. Optionee shall have immediate right of possession to said mining claim, premises and property, above and below surface, upon execution of this agreement, and may continue in possession and carry on exploration and development work or mining and milling operations thereon, but all work must be done in a manner consistent with good mining practice. Optionee shall have the right to continue in such possession so long as he shall not be in default of any and all of the terms of this agreement by him to be kept and performed.

6. The development work shall be performed as hereinbefore agreed unless the party of the second part is obliged to discontinue work on account of conditions beyond the control of ordinary mankind-such matters as strikes, fires and acts of God.

7. The Nevada laws as to employees' insurance shall be strictly complied with before said employees are placed at work by Optionee; also the safety

regulations required by the State of Nevada shall be strictly complied with by the Optionee.

8. Optioner or his accredited agent may have access to all books, records, and mine workings at reasonable times for the purpose of inspection.

9. Optionee will pay all claims for wages, supplies and operation costs incurred while working hereunder, and hold said optioner harmless from all liens for labor, materials or any expenditures contracted by him, and shall keep proper notices posted on the premises at all times to this effect.

10. This agreement is intended to be a lease and option, and Optionee may forfeit his rights hereunder and surrender the property to the owners by giving them thirty days written notice to that effect. He will also have thirty days to remove his machinery, supplies and personal property.

In case of such surrender any and all royalty payments that may have been made or made or may be then due from are previously mined shall be forfeited and accepted by the optioner as liquidated damages for the use of the property.

11. All notices hereafter to be given to first party hereunder shall be considered as having been given when sent by ordinary mail addressed to 2501-Benvenue Avenue Berkley, California, and notices given to second party shall be considered as having been made when sent to him be registered mail addressed at post office Meadows, Idaho.

12. Optionee further agrees that he will pay taxes when due.

13. It is further agreed that all buildings, development work, track, rails and other permanent improvements and fixtures placed upon said property by the Optionee (as distinguished from machinery, supplies and personal property) shall become and be considered a part of the said mining property and shall revert to and remain the property of the Optioner in the event of any termination or abandonment of this lease and option.

14. If the Optionee shall fail to pay the said purchase price at the time and in the manner as hereinabove provided or fail to keep and perform any of the other terms and conditions hereof on his part to be kept and performed, then the Optioner may, at his election, terminate this agreement by giving thirty days prior notice in writing to the Optionee of his intention so to do. Provided, however, that if within said thirty day period after the giving of such notice, the Optionee has cured any default or corrected such other default, this agreement shall then be considered re-instated and in good standing. However, upon failure of the Optionee to correct the same within said thirty days and after all time has been terminated and at an end and all rights of Optionee hereunder forfeited and in the event of such termination, all payments theretofore made upon said purchase price [illegible] shall become the property of the Optioner and be [illegible] the failure of Optionee to perform the terms [illegible] entitled to forthwith repossess [illegible] deed and abstract deposited herein as well as interest thereon, provided that such termination shall in no way release the Optionee from his liability to pay said royalty in full all times to that payments incurred up to the time of such termination or to account for any and all royalties accrued or to accrue thereunder on the said property up to such time.

15. Time is the essence of this agreement and each and every clause hereof, and this contract shall be binding on and inure to the benefit of the parties hereto and their respective heirs, executors, administrators, and assigns.

IN WITNESS WHEREOF, the parties hereto have hereunto set their hands and seals in triplicate hereof the day and year first hereinabove written.

[illegible]
Grantor

[illegible]
Grantee

State of Iowa)
County of Polk) ss.

On this 22 day of January, 1952, before me, the undersigned, a Notary Public, in and for the said county and state, personally appeared the within named [illegible], to me known to be the identical person who executed the foregoing instrument, and acknowledged to me that it was his free and voluntary act.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal to triplicates on the [illegible] day of January, 1952.

[illegible]
Notary Public for
[illegible] Iowa. Expires [illegible], 1953

Washington D. C.)
COUNTY OF _____) ss.

On this 29 day of January, 1952, before me, the undersigned, a Notary Public, in and for the said county and state, personally appeared the within named [illegible], to me known to be the identical person who executed the foregoing instrument, and acknowledged to me that her free and voluntary act.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, to the triplicates hereof [illegible] day of January, 1952.

Byrd C. Reid
Notary Public for
[illegible] Expires [illegible]

Made and entered into this 21st day of January, 1952 by and between Bessie H. Wootton of Berkeley, Alameda County, State of California, party of the first, hereinafter referred to, as the Optioner, and L. L. Whitney, of Meadows, Adams County, State of Idaho party of the second, hereinafter referred to as the Optionee.

Witnesseth:

That the Optioner [illegible] the Indemnity to the [illegible] Mesa Location in the Porter Mining District, Ada County, Township [illegible] survey no. 1619-not 3%.

The Optioner do [illegible] and option to purchase said property, under the terms and conditions [illegible], now, therefore, for, and in consideration of five [illegible], receipt of which is hereby [illegible] acknowledged, and the promises and covenants herein [illegible] contained, by the respective parties hereto to be kept [illegible] and performed by and on the part of the parties hereto, as follows:

1. Optioner give and grant [illegible] Optionee, the exclusive right and option to purchase the before mentioned [illegible] Optionee, grant [illegible] property for the sum of [illegible] Dollars ($20,000.00) lawful money of the United States, [illegible] the Optionee.

A royalty of ten per cent (10%) upon all smelting, mill settlements or from any sale of ore, or concentrates or bullion that may be produced thereon based on the gross value [illegible] Optioner, said royalty shall apply on the purchase price [illegible].

All such payments shall be paid within ten days of receipt of settlements together with copy of said construction contract direct to the Optionee address, 2511 [illegible] Avenue, [illegible], California or to her designee. Optionee may reserve this option continue until the full purchase price has been paid, or this option terminated, the Optionee shall have the right to pay all or any part, of the purchase price at any time, but no dividends paid during the life of this agreement, upon the receipt of [illegible] amount due under this agreement Optionee shall delivery a warranty deed for said property.

2. This option shall be for [illegible] years from date, upon express conditions that all terms, promises and covenants be complied with.

3. Optionee shall have until July [illegible], [illegible] to begin work on said property.

4. Optionee shall perform or cause to be performed at least $[illegible] worth of work upon said property, [illegible] beginning July 1, 1952.

5. Optionee shall have free [illegible] access to said claim, premises and property, [illegible] at any time during the life of this agreement, and may continue in possession and exploration and development work on said [illegible] claims therein, but such work must be done in a manner satisfactory to said [illegible] practice. Optionee shall have the right to cease [illegible] so long as he shall not be in default of any and all of the terms of this agreement by him to be kept and performed.

6. The development work [illegible] shall be prosecuted with due diligence but if the party of the second part is delayed in so doing work on account of conditions beyond the control [illegible] such as strikes, fires and acts of God.

7. The Nevada laws as to employment of [illegible] shall be strictly complied with before said employees are placed to work by Optionee; all other laws

regulations required by the [illegible] to strictly complied with by the Optioner.

8. Optioner or his accredited agent may have access to all records, accounts, and also workings at reasonable times [illegible] of the other.

9. Optioner will pay all [illegible] incurred while working [illegible] all liens for labor, make [illegible] and shall keep proper notice [illegible] effect.

10. This agreement is interpreted [illegible] option, and Optioner may forfeit his rights hereunder [illegible] to Optionee [illegible] by giving then thirty days [illegible] have thirty days to remove [illegible] and [illegible].

In case of such [illegible] all royalty payments [illegible] have been made or made or [illegible] the property shall be forfeited and accepted by the [illegible]. It waived charge for the use of the property.

11. All notices hereafter to be given [illegible] party hereunder shall be considered as having been [illegible] by certified, mail addressed to 2331-Beverly Avenue, [illegible], California, and notices [illegible] to second party shall be [illegible] addressed to him be registered mail addressed to [illegible] Meadows, Idaho.

12. Optioner further agrees [illegible].

13. It is further agreed [illegible] development [illegible] to all mills and other permanent [illegible] placed upon the property by the Optioner (at their [illegible] expense, and all personal property shall [illegible] mining property and shall revert [illegible] remain the property of the Optioner in the event of any termination [illegible] and [illegible].

14. If the Optionee shall fail to pay the said purchase price at the time and in the manner as hereinabove provided or fail to keep and perform any of the other terms and conditions hereof on his part to be kept and performed, then the Optionor may, at his election, terminate this agreement by giving thirty days prior notice in writing to the Optionee of his intention so to do. Provided, however, that if within said thirty days period after the giving of such notice, the Optionee makes such payment or corrects such other default, this agreement shall then be considered re-instated and in good standing. However, upon failure of the Optionee to correct the same within said period this lease and option will then be terminated and at an end and all rights of Optionee hereunder forfeited and in the event of such termination, all payments theretofore made upon said purchase price (regularly or otherwise) shall remain the property of the Optionor and be treated as liquidated damages for the failure of Optionee to perform the terms of this contract and Optionor shall be entitled to forthwith regain the possession of said premises, and any deed and abstract deposited in escrow shall be returned to him, provided that such termination shall in no manner release the Optionee from his obligation and liability to pay and satisfy in full all liens le indebtedness incurred up to the time of such termination or to account for any pay over all royalties accrued or to accrue from ore taken from such property up to such time.

15. Time is the essence of this agreement and each and every clause herein, and this contract shall be binding upon and inure to the benefit of the parties hereto and their respective heirs, successors, administrators, and assigns.

IN WITNESS WHEREOF, the parties hereto have hereunto set their hands and seals to triplicates hereof the day and year first hereinabove written.

Jessie M. Scotter
Optionor

L. J. Whitney
Optionee

STATE OF IDAHO)
) SS.
County of Valley)

On this 21 day of January, 1952, before me, the undersigned, a Notary Public, in and for the said county and state, personally appeared the within named L. J. Whitney, who is known to me to be the identical person who executed the foregoing instrument, and acknowledged to me that it was his free and voluntary act.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal to triplicates on this 21 day of January, 1952.

Neal Roydstun
Notary Public for
My Commission Expires May 6, 1953

Washington D. C.)
) SS.
COUNTY OF_____)

On this 29 day of January, 1952, before me, the undersigned, a Notary Public, in and for the said county and state, personally appeared the within named [illegible], who is known to me to be the identical person who executed the foregoing instrument, and acknowledged to me to be her free and voluntary act.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, to the triplicates hereof on this 29 day of January, 1952.

Byrd C. Reid
Notary Public for
My Commission Expires 12/31/55

LEASE and OPTION

Made and entered into this 7 day of February, 1952 by and between T. J. Canavan of Portland, Multonomah Co. Oregon, party of the first part, hereinafter refered to, as the Optionor, and B. A. Hanks Contact, Nevada State of Nevada party of the second part, hereinafter refered to as the Optionee.

Witnesseth;

That the Optionor is the owner of the Paddy, unpatented mining claim located in the Porter Mining District, Elko County, Nevada.

The Optionee desired a lease and option to purchase said property, under the terms and conditions hereinafter set forth, now, therefore, for, and in consideration of Five Dollars ($5.00), receipt of which is hereby acknowledged, and the premises and covenants hereinafter contained, by the respective parties hereto to be kept and performed, it is mutually covenanted and agreed by the partion hereto, as follows.

1. Optionor gives and grants to Optionee, the exclusive right and option to purchase the before mentioned Paddy Mining claim, premises and property for the sum of Ten thousand dollars ($10,000.00) lawful money of the United States, to be paid under and upon the following terms.

A royalty of ten per cent (10%) upon all smelter, mill settlements or from any sale of ore, concentrates or bullion that may be produced, this is based on the gross value, less smelter charges, said royalty shall apply on the purchase price due hereunder.

All such payments shall be paid within ten days of receipt of settlements together with a copy of said transaction and mailed direct to the Optionors address, 1916 NE62 Ave. Portland, Oregon or to his designated agent as Optionor may request. This to continue untill the full purchase price has been paid, or this option relinquished, the Optionee shall have the right to pay all or any part, of the purchase price at any time, less royalities paid during the life of this agreement, upon the recept of the full amount due under this agreement Optionor shall delever a Quit Claim deed for said property.

2. This option shall be for five years from date, under express conditions that all terms, premises and covenants are complied with.

3. Optionee shall have until May 1, 1952, to begin work on said property.

4. Optionee shall perform or caused to be performed at least 30 shifts of work upon said property per month during the life of this agreement begining May 1, 1952.

5. Optionee shall have immediate right of possession to said mining claim, premises and property, above and below surface, upon execution of this agreement, and may continue in possession and carry on exploration and development work or mining and milling operations thereon, but all work must be done in a manner consistent with good mining practice. Optionee shall have the right to continue in such possession so long as he shall not be in default of any and all of the terms of this agreement by him to be kept and performed.

6. The development work shall be performed as hereinbefore agreed unless the party of the second part is obliged to discontinue work on account of conditions beyond the control of ordinary mankind-such matters at strikes,, fires and a cts of God.

7. The Nevada laws as to employees' insurance shall be strictly complied

with before said employees are placed at work by Optionee; also the safety regulations required by the State of Nevada shall be strictly complied with by the Optionee.

8. Optionor or his accredited agent may have access to all books, records, and mine workings at reasonable times for the purpose of inspection.

9. Optionee will pay all claims for wages, supplies and operation costs incurred while working hereunder, and hold said Optionor harmless from all liens for labor, materials or any expeditures contracted by him, and shall keep proper notices posted on the promises at all times to this effedt.

10. This agreement is intended to be a lease and option, and Optionee may forfeit his rights hereunder and surrender the property to the owners by giving them thirty days written notice to that effect. He will also have thirty days to remove his machinery, supplies and personal property.

In case of such surrender any and all royalty payments that may have been made or may be then due from ore previously mined shall be forfeited and accepted by the Optionor as liquidated damages for the use of the property.

11. All notices hereafter to be given to first party hereunder shall be considered as having been given when sent to him by ordinary mail addressed to 1916 NE 62 Ave Portland, Oregon and notices given to second party shall be considered as having been made when sent to him be registered mail addressed at post office Contact, Nevada.

12. Optionee further agrees that he will record assesment work before July 1, each year.

13. It is further agreed that all buildings, development work, track, rails and other permanent improvements and fixtures placed upon said property by the Optionee (as distinguished from machinery, supplies and personal property) shall become and be considered a part of the said

mining property and shall revert to and remain the property of the Optionor in the event of any termination or abandonment of this lease and option.

14. If the Optionee shall fail to pay the said purchase price at the time and in the manner as hereinabove provided or fail to keep and perform any of the other terms and conditions hereof on his part to be kept and performed, then the Optionor may, at his election, terminate this agreement by giving thirty days prior notice in writing to the Optionee of his intention so to do. Provided, however, that if within said thirty days period after the giving of such notice, the Optionee makes such payment or corrects such other default, this agreement shall then be considered re-instated and in good standing. However, upon failure of the Optionee to correct the same within said period this lease and option will then be terminated and at an end and all rights of Optionee hereunder forfeited and in the event of such termination, all payments theretofore made upon said purchase price (royalty or otherwise) shall remain the property of the Optionor and be treated as liquidated damages for the failure of Optionee to perform the terms of this contract and Optionor shall be entitled to forthwith regain the possession of said premises, and any deed and abstract deposited in escrow shall be returned to him, provided that such termination shall in no manner release the Optionee from his obligation and liability to pay and satisfy in full all lienable indebtedness incurred up to the time of such termination or to account for any pay over all royalties accrued or to accrue from ore taken from such property up to such time.

15. Time is the essence of this agreement and each and every clause herein, and this contract shall be binding upon and inure to the benefit of the parties hereto and their respective heirs, successors, administrators, and assigns.

IN WITNESS WHEROF, the parties hereto have hereunto set their hands and seals to triplicates hereof the day and year first hereinabove written.

T. J. Canavan
Optionor

B. A. Hanks
Optionee

STATE OF OREGON)
) SS.
County of Malhuer)

On this 11 day of February, 1952, before me, the undersigned, a Notary Public, in and for the said county and state, personally appeared the within named B. A. Hanks, who is known to me to be the identical person who executed the foregoing instrument, and acknowledged to me that it was his free and voluntary act.

IN WITNESS WHEROF, I have hereunto set my hand and affixed my official seal to triplicates on this 11 day of February, 1952.

Notary Public for
My Commission Expires 1/24/54

STATE OF OREGON)
) SS.
County of Malhuer)

On this 11 day of February, 1952, before me, the undersigned, a Notary Public, in and for the said county and state, personally appeared the within named T. J. Canavan, who is known to me to be the identical person who executed the foregoing instrument, and acknowledged to me to be his free and voluntary act.

IN WITNESS WHEROF, I have hereunto set my hand and affixed my offical seal, to the triplicates hereof on this 11 day of February, 1952.

Notary Public for
My Commission Expires 1/24/54

Made and entered into this [illegible] day of [illegible], 19[illegible] and between [illegible] [illegible] Canavan of Portland, [illegible] of the State of Oregon, party of the first part, hereinafter referred to as the vendor, and [illegible] [illegible] Smith Gardner, Nevada State of Nevada party of the second part, hereinafter referred to as the optionee.

Witnesseth;

That the Optionee in the name of the [illegible], registered mining claim located in the Porter Mining District, [illegible] County, Nevada.

The Optionee desired a [illegible] exploration [illegible] said property, under the terms and conditions hereinafter set forth, now, therefore, for, and in consideration of five dollars ($5.00), receipt of which is hereby acknowledged, and the promises and covenants hereinafter set forth, the respective parties hereto [illegible] for themselves, their respective heirs, [illegible] and assigns, do hereby covenant and agree by the parties hereto, as follows.

1. Optionor gives and grants to Optionee, the exclusive right and option to purchase the before mentioned mining claim, together with all appurtenances and property for the sum of Ten thousand dollars ($10,000.00) lawful money of the United States, to be paid under and upon the following terms.

A royalty of ten per cent (10%) of all minerals, ores, concentrates or from any scale of ore, concentrate or other [illegible] to be produced, this to be based on the gross value, [illegible] charges, and royalty will apply on the purchase price the [illegible].

All such payments shall be paid within ten days of receipt of settlements together with a copy of said transaction and mailed direct to the Optionors address, 1916 NE62 Ave. Portland, Oregon or to his designated agent as Optionor may request. This to continue untill the full purchase price has been paid, or this option relinquished, the Optioree shall have the right to pay all or any part, of the purchase price at any time, less royalities paid during the life of this agreement, upon the receipt of the full amount due under this agreement Optionor shall delever a Quit Claim deed for said property.

2. This option shall be for five years from date, under express conditions that all terms, promises and covenants are complied with.

3. Optioree shall have until May 1, 1952, to begin work on said property.

4..Optioree shall perform or cause to be performed at least 30 shifts of work upon said property per month during the life of this agreement beginning May 1, 1952.

5. Optioree shall have immediate right of possession to said mining claim, premises and property, above and below surface, upon execution of this agreement, and may continue in possession and carry on exploration and development work or mining and milling operations thereon, but all work must be done in a manner consistent with good mining practice. Optioree shall have the right to continue in such possession so long as he shall not be in default of any and all of the terms of this agreement by him to be kept and performed.

6. The development work shall be performed as hereinbefore agreed unless the party of the second part is obliged to discontinue work on account of conditions beyond the control of ordinary mankind-such matters at strikes,, fires and acts of God.

7. The Nevada laws as to employees' insurance shall be strictly complied

with before said employees are placed at work by Optionee; also the safety regulations required by the State of Nevada shall be strictly complied with by the Optionee.

8. Optionor or his accredited agent may have access to all books, records, and mine workings at reasonable times for the purpose of inspection.

9. Optionee will pay all claims for wages, supplies and operation costs incurred while working hereunder, and hold said Optionor harmless from all liens for labor, materials or any expenditures contracted by him, and shall keep proper notices posted on the premises at all times to this effect.

10. This agreement is intended to be a lease and option, and Optionee may forfeit his rights hereunder and surrender the property to the owners by giving them thirty days written notice to that effect. He will also have thirty days to remove his machinery, supplies and personal property.

In case of such surrender any and all royalty payments that may have been made or may be then due from the previously mined shall be forfeited and accepted by the Optionor as liquidated damages for the use of the property.

11. All notices hereafter to be given to first party hereunder shall be considered as having been given when sent to him by ordinary mail addressed to 1916 NW 62 Ave Portland, Oregon and notices given to second party shall be considered as having been made when sent to him by registered mail addressed at his office Contact, Nevada.

12. Optionee further agrees that he will record assessment work before July 1, each year.

13. It is further agreed that all buildings, development work, track, rails and other permanent improvements and fixtures placed upon said property by the Optionee (as distinguished from machinery, supplies and personal property) shall become and be considered a part of the said

mining property and shall revert to and remain the property of the Optionor in the event of any termination or abandonment of this lease and option.

14. If the Optionee shall fail to pay the said purchase price at the time and in the manner as hereinabove provided or fail to keep and perform any of the other terms and conditions hereof on his part to be kept and performed, then the Optionor may, at his election, terminate this agreement by giving thirty days prior notice in writing to the Optionee of his intention so to do. Provided, however, that if within said thirty days period after the giving of such notice, the Optionee makes such payment or corrects such default, this agreement shall then be considered re-instated and in good standing. However, upon failure of the Optionee to correct the same within said period this lease and option will then be terminated and at an end and all rights of Optionee hereunder forfeited and in the event of such termination, all payments theretofore made upon said purchase price (royalty or otherwise) shall remain the property of the Optionor and be the full and liquidated damages for the failure of Optionee to perform the terms of this contract and Optionee shall be entitled to forthwith regain the possession of said premises, and any deed and abstract deposited in escrow shall be returned to him, provided that such termination shall in no manner relieve the Optionee from his obligation and liability to pay and satisfy in full all liens, indebtedness incurred up to the time of such termination or to account for and pay over all royalties accrued or due to Fee owners from such property up to such time.

15. Time is the essence of this agreement and each and every clause herein, and this contract shall be binding upon and inure to the benefit of the parties hereto and their respective heirs, successors, administrators, and assigns.

IN WITNESS WHEREOF, the parties hereto have hereunto set their hands and seals to triplicates hereof the day and year first hereinabove written.

T. J. Canavan
Optionor

B. A. Hanks
Optionee

STATE OF OREGON)
) SS.
County of Malhuer)

On this 11 day of February, 1952, before me, the undersigned, a Notary Public, in and for the said county and state, personally appeared the within named B. A. Hanks, who is known to me to be the identical person who executed the foregoing instrument, and acknowledged to me that it was his free and voluntary act.

IN WITNESS THEREOF, I have hereunto set my hand and affixed my official seal to triplicates on this 11 day of February, 1952.

Notary Public for
My Commission Expires 1/24/54

STATE OF OREGON)
) SS.
County of Malhuer)

On this 11 day of February, 1952, before me, the undersigned, a Notary Public, in and for the said county and state, personally appeared the within named T. J. Canavan, who is known to me to be the identical person who executed the foregoing instrument, and acknowledged to me to be his free and voluntary act.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, to the triplicates hereof on this 11 day of February, 1952.

Notary Public for
My Commission Expires 1/24/54

made and entered into this [illegible] February, 1920 by and between T. J. Canavan of Portland, Multnomah Co. Oregon, party of the first part, hereinafter referred to, as the optioner, and [illegible] Conner, Nevada State of Nevada party of the second part, hereinafter referred to as the optionee.

Witnesseth:

That the optioner in [illegible] of the sum, [illegible] located in the Porter Mtn, [illegible] the [illegible] ovals.

The optionee desired [illegible] to have [illegible] under the terms and conditions [illegible] and in consideration of [illegible] hereby acknowledged, [illegible] to the respective parties [illegible] executed and agreed by the [illegible] follows.

1. Optioner gives and grants [illegible] to purchase the before [illegible] for the sum of Ten thousand dollars [illegible] United States, to be paid under and upon the following terms.

A royalty of ten per cent [illegible] or from any sale of ore, [illegible] this lease on the [illegible] apply on the purchase price [illegible].

All such payments shall be paid within ten days of receipt of settlements together with a copy of said transaction and mailed direct to the Optioners address, 1916 NE62 Ave. Portland, Oregon or to his designated agent as Optioner may request. This to continue untill the full purchase price has been paid, or this option relinquished, the Optionee shall have the right to pay all or any part, of the purchase price at any time, less royalties paid during the life of this agreement, upon the receipt of the full amount due under this agreement Optioner shall deliver a Quit Claim deed for said property.

2. This option shall be for five years from date, under express conditions that all terms, premises and covenants are complied with.

3. Optionee shall have until May 1, 1952, to begin work on said property.

4. Optionee shall perform or caused to be performed at least 30 shifts of work upon said property per month during the life of this agreement begining May 1, 1952.

5. Optionee shall have immediate right of possession to said mining claim, premises and property, above and below surface, upon execution of this agreement, and may continue in possession and carry on exploration and development work or mining and milling operations thereon, but all work must be done in a manner consistent with good mining practice. Optionee shall have the right to continue in such possession so long as he shall not be in default of any and all of the terms of this agreement by him to be kept and performed.

6. The development work shall be performed as hereinbefore agreed unless the party of the second part is obliged to discontinue work on account of conditions beyond the control of ordinary mining-such as strikes, fires and acts of God.

7. The Nevada laws as to employees' insurance shall be strictly complied

with before said employees are placed at work by Optionee; also the safety regulations required by the State of Nevada shall be strictly complied with by the Optionee.

8. Optioner or his accredited agent may have access to all books, records, and mine workings at reasonable times for the purpose of inspection.

9. Optionee will pay all claim fees, wages, supplies and operation costs incurred while working hereunder, and hold said Optioner harmless from all liens for labor, materials or any expenditures contracted by him, and shall keep proper notices posted on the premises at all times to this effect.

10. This agreement is intended to be a lease and option, and Optionee may forfeit his rights hereunder and surrender the property to the owners by giving them thirty days written notice to this effect. He will also have thirty days to remove his machinery, supplies and personal property.

In case of such surrender or forfeiture no royalty payments that may have been made or may be then due from or previously paid shall be forfeited and accepted by the Optioner as liquidated damages for the use of the property.

11. All notices hereafter to be given to first party hereunder shall be considered as having been given when sent to him by ordinary mail addressed to 1916 NE 62 Ave Portland, Oregon and notices given to second party shall be considered as having been made when sent to him by registered mail addressed at Post Office Contact, Nevada.

12. Optionee further agrees that he will record assessment work before July 1, each year.

13. It is further agreed that all buildings, development work, track, rails and other permanent improvements and furtures placed upon said property by the Optionee (as distinguished from machinery, supplies and personal property) shall become and be considered a part of the said

mining property and shall revert to and remain the property of the Optioner in the event of any termination or abandonment of this lease and option.

14. If the Optionee shall fail to pay the said purchase price at the time and in the manner as hereinabove provided or fail to keep and perform any of the other terms and conditions hereof on his part to be kept and performed, then the Optioner may, at his election, terminate this agreement by giving thirty days prior notice in writing to the Optionee of his intention so to do. Provided, however, that if within said thirty days period after the giving of such notice, the Optionee makes such payment or corrects such other default, this agreement shall then be considered re-instated and in full standing. However, upon failure of the Optionee to correct the said default in said period this lease and option will then be terminated and at an end and all rights of Optionee hereunder forfeited and in the event of such termination, all payments theretofore made upon said purchase price (whether or otherwise) shall remain the property of the Optioner and be taken as liquidated damages for the failure of Optionee to perform the terms of this contract and Optioner shall be entitled to forthwith regain the possession of said premises, and any deed and abstract deposited in escrow shall be returned to him, provided that such termination shall in no manner release the Optionee from his obligation and liability to pay and satisfy in full all liquidated indebtedness incurred up to the time of such termination or to account for any pay over all royalties accrued or to accrue from ore taken from such property up to such time.

15. Time is the essence of this agreement and each and every clause herein, and this contract shall be binding upon and inure to the benefit of the parties hereto and their respective heirs, successors, administrators, and assigns.

IN WITNESS WHEREOF, the parties hereto have hereunto set their hands and seals to triplicatons hereof the day and year first hereinabove written.

[illegible] Grover
Optionee

[illegible] Jorka
Optionee

State of Oregon }
County of Malhuer } ss.

On this 11 day of [illegible], [illegible], before me, the undersigned, a Notary Public, in and for said County and State, personally appeared the within named [illegible] and [illegible] to me known to be the identical persons described in and who executed the foregoing instrument and acknowledged to me that they executed the same freely and voluntarily.

[illegible] 2022.

Notary Public for
[illegible] Oregon

State of Oregon }
County of Malhuer } ss.

On this 11 day of [illegible], [illegible], before me, the undersigned, a Notary Public, in and for said County and State, personally appeared the within named [illegible] to me known to be the identical persons described in and who executed the foregoing instrument and acknowledged to me that they executed the same freely and voluntarily.

[illegible] 2022.

Notary Public for
[illegible] Oregon My Commission Expires [illegible]

Made and entered into this 7 day of February, 1952 by and between T. J. Canavan of Portland, Multnomah Co. Oregon, party of the first part, hereinafter refered to, as the Optioner, and D. A. Banks Contact, Nevada State of Nevada party of the second part, hereinafter refered to as the Optionee.

Witnesseth;

That the Optioner is the owner of the Lucky, unpatented mining claim located in the Porter Mining District, Elko County, Nevada.

The Optionee desired a lease and option to purchase said property, under the terms and conditions hereinafter set forth, now, therefore, for, and in consideration of Five Dollars ($5.00), receipt of which is hereby acknowledged, and the promises and covenants hereinafter contained, by the respective parties hereto to be kept and performed, it is mutually covenanted and agreed by the parties hereto, as follows.

1. Optioner gives and grants to Optionee, the exclusive right and option to purchase the before mentioned Lucky Mining claim, premises and property for the sum of Ten thousand dollars ($10,000.00) lawful money of the United States, to be paid under and upon the following terms.

A royalty of ten per cent (10%) upon all smelter, mill settlements or from any sale of ore, concentrates or bullion that may be produced, this is based on the gross value, less smelter charges, said royalty shall apply on the purchase price due hereunder.

All such payments shall be made [illegible] the day of receipt of settlements together with a copy of [illegible] and notice of [illegible] to the optionee address, [illegible] shall be considered [illegible] as optionee may submit.

[illegible] the [illegible] shall be paid, as the [illegible] shall [illegible], the [illegible] have the right to pay all or any part of [illegible] or any [illegible] to [illegible] paid during the life of the option [illegible] the receipt of the [illegible] under the option [illegible] provisions.

7. This option shall be for [illegible] under [illegible] or [illegible] time all terms, conditions and [illegible] applicable.

8. Optionee [illegible] [illegible] of [illegible] [illegible]

9. Optionee shall [illegible] [illegible] of such year will [illegible] the life of [illegible] [illegible] by [illegible] 10%.

10. Optionee shall have [illegible] [illegible] of the [illegible] promotion and [illegible], [illegible] operations, and may [illegible] development [illegible] [illegible] therein, but all such [illegible] to be done in a [illegible] manner [illegible]. Optionee shall have the right to [illegible] to be [illegible] to be [illegible] to be kept and performed.

11. The development [illegible] or [illegible] equal [illegible] the party of the second part [illegible] to the [illegible] of conditions beyond the control of [illegible] or [illegible] fires and [illegible] of God.

12. The Texas law as to [illegible] shall be strictly complied

with before said employees are placed at work by Optionee; also the safety regulations required by the State of Florida shall be strictly complied with by the Optionee.

8. Optionor or his accredited agent may have access to all tools, records, and mine workings at reasonable times for the purpose of inspection.

9. Optionee will pay all claims for wages, supplies and operation costs incurred while working hereunder, and hold said Optionor harmless from all liens for labor, materials or supplies or operation contracts by him, and shall keep proper notices posted on the premises of all liens to this effect.

10. This agreement is intended to be a lease and not a sale, and Optionee may forfeit his rights hereunder and surrender the property to the owner by giving them thirty days written notice to that effect. He will also have thirty days to remove his equipment, supplies and personal property.

In case of such surrender, all unpaid payments that may have been made or may be due on the purchase price shall be forfeited and accepted by the Optionor as liquidated damages for the use of the property.

11. All notices hereunder to be given to said property hereunder shall be considered as having been given when sent by ordinary mail, addressed to 1910 NE 8th Terrace, Ocala, and notices given to second party shall be considered as having been made when sent to be registered mail addressed to Box 1, Office Contact, Florida.

12. Optionee further agrees that this lease agreement must be renewed July 1, each year.

13. It is further agreed that all buildings, development work, fences, roads and other permanent improvements and fixtures placed upon said property by the Optionee (as distinguished from machinery, supplies and personal property) shall become and be considered a part of the said

mining property and shall revert to and remain the property of the Optioner in the event of any termination or cancellation of this lease and option.

14. If the Optionee shall fail to pay the said purchase price at the time and in the manner as hereinabove provided or fail to keep and perform any of the other terms and conditions hereof on his part to be kept and performed, then the Optioner may, at his election, terminate this agreement by giving thirty days [illegible] notice in writing to the Optionee of his intention so to do. Provided, however, that if within the thirty days period after the giving [illegible] the Optionee [illegible] payment of arrears and of [illegible] conditions so-indicated [illegible] the Optionee to correct the default [illegible] will then be terminated [illegible] forfeited and in the event [illegible] made upon said purchase price [illegible] party of the Optioner [illegible] of Optionee to perform the [illegible] entitled to forthwith regain [illegible] good and marketable [illegible] that such termination shall [illegible] obligation and liability to [illegible] mess incurred up to the time [illegible] pay over all [illegible] property up to such time.

15. This is the entire [illegible] and this contract shall [illegible] ties hereto and their respective [illegible] assigns.

IN WITNESS WHEREOF, the parties hereto have executed this [illegible] and seals to triplicate hereof the day and year first hereinabove written.

E. J. Conover
Optionor

B. A. Hanks
Optionee

STATE OF OREGON }
County of Malhuer } ss.

On this 11 day of February, 1952, before me, the undersigned, a Notary Public, in and for the said county and state, personally appeared the within named B. A. Hanks, who is known to me to be the identical person who executed the foregoing instrument, and acknowledged to me that he did so for his free and voluntary act.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year last above written.

Notary Public for
My Commission Expires 1/24/54

STATE OF OREGON }
County of Malhuer } ss.

On this 11 day of February, 1952, before me, the undersigned, a Notary Public, in and for the said county and state, personally appeared the within named E. J. Conover, who is known to me to be the identical person who executed the foregoing instrument, and acknowledged to me that he did so for his free and voluntary act.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, the day and year last above written.

Notary Public for
My Commission Expires 1/24/54

Assignment Of Option

The undersigned, B. A. Hanks, of Contact, Nevada, Elko Co. is the owner of an option to purchase the Paddy Mining Claim Located in the Porter Mining District, Elko Co. Nevada, under certain terms and agreements as shown in attached copy of said option and for the sum of one dollar ($1.00) and other considerations, does hereby sell and transfer the option with all rights therein to L. W. Whitney of Meadows, Idaho.

Dated
Mar 10-1952

Signed B. A. Hanks
(B. A. Hanks)

Assignment of Option

The undersigned, [illegible] Hanks, of Contact, Nevada, Elko Co. is the owner of an option to purchase the Daddy Mining Claim located in the Porter Mining District, Elko Co. Nevada, under certain terms and agreements as shown in attached copy of said option and for the sum of one dollar ($1.00) and other considerations, does hereby sell and transfer the option with all rights thereto to [illegible] Chenoy of Meadows, Idaho.

B A Hanks
Signed (B. A. Hanks)

Dated
Mar 28-1952

[illegible] of [illegible]

The undersign[illegible], [illegible], of [illegible], Nevada, Elko Co. is the owne[illegible] [illegible] to purchase the [illegible] mining claims [illegible] Mining District, Elko Co. [illegible] and agreements as shown [illegible] and for the [illegible] and other considerations, [illegible] with all [illegible] Company of [illegible], Idaho.

[illegible]

Assignment of Option

The undersigned, A. A. Hanks, of Contact, Nevada, Elko Co. is the owner of an option to purchase the Paddy Mining Claim located in the Porter Mining District, Elko Co. Nevada, under certain terms and agreements as shown in attached copy of said option and for the sum of one dollar ($1.00) and other considerations, does hereby sell and transfer the option with all rights therein to L. A. Whitney of Meadows, Idaho.

Signed (A. A. Hanks)

MF-202

LANDLORD'S SUBORDINATION AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the undersigned is the owner in fee simple of that certain parcel of ground in the county of Elko, State of Nevada, described in a certain Exploration Project Contract dated _____, 195__, between L. W. Whitney - Arizona Petrol Mine, the Lessee of said property, and the United States of America;

NOW, THEREFORE, the undersigned, as Lessor of said property under lease dated _____, does by these presents subordinate all of his right, title, and interest under the provisions of said lease to the right, title, and interest of the United States of America under the provisions of said Exploration Project Contract, and agrees that the lien and claim of the United States of America under the provisions of said contract shall be prior to the undersigned's rights to rentals or royalties under the terms of said lease; and

The undersigned further agrees that if said leasehold interest should be surrendered or if said lease should terminate at any time prior to the expiration of the rights of the United States of America under said Exploration Project Contract, the undersigned shall assume and does hereby assume all of the obligations of the Lessee under said Exploration Project Contract to make repayment to the United States of America according to the terms of said contract; and

The undersigned agrees to commit no act, nor assert any claim under judicial process or otherwise that may contravene or conflict with the prior lien and claim of the United States of America under the provisions of said Exploration Project Contract.

This undertaking and covenant shall be binding upon the heirs, successors, and assigns of the undersigned.

Dated this 20 day of April, 195__

Bessie H Wootten
by B Ashento
Atty in Fact.
by Power of Atty dated
May 31 — 1944 and
of record in Elko Co
Nevada

U. S. GOVERNMENT PRINTING OFFICE 16—64582-1

MF-202

LANDLORD'S SUBORDINATION AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the undersigned is the owner in fee simple of that certain parcel of ground in the county of Elko, State of Nevada, described in a certain Exploration Project Contract dated ....., 195..., between L. W. Whitney. Arizona Pacific Mine the Lessee of said property, and the United States of America;

NOW, THEREFORE, the undersigned, as Lessor of said property under lease dated June 11-1957, does by these presents subordinate all of his right, title, and interest under the provisions of said lease to the right, title, and interest of the United States of America under the provisions of said Exploration Project Contract, and agrees that the lien and claim of the United States of America under the provisions of said contract shall be prior to the undersigned's rights to rentals or royalties under the terms of said lease; and

The undersigned further agrees that if said leasehold interest should be surrendered or if said lease should terminate at any time prior to the expiration of the rights of the United States of America under said Exploration Project Contract, the undersigned shall assume and does hereby assume all of the obligations of the Lessee under said Exploration Project Contract to make repayment to the United States of America according to the terms of said contract; and

The undersigned agrees to commit no act, nor assert any claim under judicial process or otherwise that may contravene or conflict with the prior lien and claim of the United States of America under the provisions of said Exploration Project Contract.

This undertaking and covenant shall be binding upon the heirs, successors, and assigns of the undersigned.

Dated this 20 day of April, 195 2

Bessie H Wootten
by B Astanto
Atty in fact by Power of Atty dated May 31 1944 and of record in Elko Co Nevada

U. S. GOVERNMENT PRINTING OFFICE 16—84582-1

MF-202

LANDLORD'S SUBORDINATION AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the undersigned is the owner in fee simple of that certain parcel of ground in the county of Elko, State of Nevada, described in a certain Exploration Project Contract dated _____, 195__, between L. W. Whitney Arizona Pat'd Mine, the Lessee of said property, and the United States of America;

NOW, THEREFORE, the undersigned, as Lessor of said property under lease dated Jan 21-1952, does by these presents subordinate all of his right, title, and interest under the provisions of said lease to the right, title, and interest of the United States of America under the provisions of said Exploration Project Contract, and agrees that the lien and claim of the United States of America under the provisions of said contract shall be prior to the undersigned's rights to rentals or royalties under the terms of said lease; and

The undersigned further agrees that if said leasehold interest should be surrendered or if said lease should terminate at any time prior to the expiration of the rights of the United States of America under said Exploration Project Contract, the undersigned shall assume and does hereby assume all of the obligations of the Lessee under said Exploration Project Contract to make repayment to the United States of America according to the terms of said contract; and

The undersigned agrees to commit no act, nor assert any claim under judicial process or otherwise that may contravene or conflict with the prior lien and claim of the United States of America under the provisions of said Exploration Project Contract.

This undertaking and covenant shall be binding upon the heirs, successors, and assigns of the undersigned.

Dated this 20 day of April, 1952

Bessie A Wootten
by B A Stanley
Atty in Fact, by
Power of Atty dated
May 31-1944 and
on record in Elko Co
Nevada

U. S. GOVERNMENT PRINTING OFFICE 16—84582-1

MF-202

LANDLORD'S SUBORDINATION AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the undersigned is the owner in fee simple of that certain parcel of ground in the county of Elko, State of Nevada, described in a certain Exploration Project Contract dated ....., 195..., between L. W. Whitney - Arizona Pat'd Mine, the Lessee of said property, and the United States of America;

NOW, THEREFORE, the undersigned, as Lessor of said property under lease dated Jan 21-1952, does by these presents subordinate all of his right, title, and interest under the provisions of said lease to the right, title, and interest of the United States of America under the provisions of said Exploration Project Contract, and agrees that the lien and claim of the United States of America under the provisions of said contract shall be prior to the undersigned's rights to rentals or royalties under the terms of said lease; and

The undersigned further agrees that if said leasehold interest should be surrendered or if said lease should terminate at any time prior to the expiration of the rights of the United States of America under said Exploration Project Contract, the undersigned shall assume and does hereby assume all of the obligations of the Lessee under said Exploration Project Contract to make repayment to the United States of America according to the terms of said contract; and

The undersigned agrees to commit no act, nor assert any claim under judicial process or otherwise that may contravene or conflict with the prior lien and claim of the United States of America under the provisions of said Exploration Project Contract.

This undertaking and covenant shall be binding upon the heirs, successors, and assigns of the undersigned.

Dated this 20 day of April, 1952

Bessie H Wootten
by B A Hanks
atty in fact under
Power of Atty, dated
May 31-1944, and
of record in Elko Co
Nevada

U. S. GOVERNMENT PRINTING OFFICE 16—64582-1

MF-202

LANDLORD'S SUBORDINATION AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the undersigned is the owner in fee simple of that certain parcel of ground in the county of Elko, State of Nevada, described in a certain Exploration Project Contract dated _____, 195__, between L W. Whitney Arizona Pat'd. Mine, the Lessee of said property, and the United States of America;

NOW, THEREFORE, the undersigned, as Lessor of said property under lease dated June 21- 1952, does by these presents subordinate all of his right, title, and interest under the provisions of said lease to the right, title, and interest of the United States of America under the provisions of said Exploration Project Contract, and agrees that the lien and claim of the United States of America under the provisions of said contract shall be prior to the undersigned's rights to rentals or royalties under the terms of said lease; and

The undersigned further agrees that if said leasehold interest should be surrendered or if said lease should terminate at any time prior to the expiration of the rights of the United States of America under said Exploration Project Contract, the undersigned shall assume and does hereby assume all of the obligations of the Lessee under said Exploration Project Contract to make repayment to the United States of America according to the terms of said contract; and

The undersigned agrees to commit no act, nor assert any claim under judicial process or otherwise that may contravene or conflict with the prior lien and claim of the United States of America under the provisions of said Exploration Project Contract.

This undertaking and covenant shall be binding upon the heirs, successors, and assigns of the undersigned.

Dated this 20 day of April, 1952

Bessie H Wootten
by B. A Hanks
Atty in fact -
Under Power of Atty.
dated May 31- 1944
and of record in
Elko Co. Nevada

U. S. GOVERNMENT PRINTING OFFICE 16—64582-1

MF-202

LANDLORD'S SUBORDINATION AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the undersigned is the owner in fee simple of that certain parcel of ground in the county of Elko, State of Nevada, described in a certain Exploration Project Contract dated ....., 195..., between L. W. Whitney Arizona Patented Mines the Lessee of said property, and the United States of America;

NOW, THEREFORE, the undersigned, as Lessor of said property under lease dated June 21-1952, does by these presents subordinate all of his right, title, and interest under the provisions of said lease to the right, title, and interest of the United States of America under the provisions of said Exploration Project Contract, and agrees that the lien and claim of the United States of America under the provisions of said contract shall be prior to the undersigned's rights to rentals or royalties under the terms of said lease; and

The undersigned further agrees that if said leasehold interest should be surrendered or if said lease should terminate at any time prior to the expiration of the rights of the United States of America under said Exploration Project Contract, the undersigned shall assume and does hereby assume all of the obligations of the Lessee under said Exploration Project Contract to make repayment to the United States of America according to the terms of said contract; and

The undersigned agrees to commit no act, nor assert any claim under judicial process or otherwise that may contravene or conflict with the prior lien and claim of the United States of America under the provisions of said Exploration Project Contract.

This undertaking and covenant shall be binding upon the heirs, successors, and assigns of the undersigned.

Dated this 20 day of April, 195 2

Bessie H Wostlen
by B A Hanks
atty in fact under
power of atty - dated
May 31-1944 and
of record in Elko Co, Nevada

U. S. GOVERNMENT PRINTING OFFICE 16—64582-1

MF-202

LANDLORD'S SUBORDINATION AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the undersigned is the owner in fee simple of that certain parcel of ground in the county of Elko, State of Nevada, described in a certain Exploration Project Contract dated _____, 195__, between L. W. Whitney Morencio Mng Claim, the Lessee of said property, and the United States of America;

NOW, THEREFORE, the undersigned, as Lessor of said property under lease dated Jan 21, 1952, does by these presents subordinate all of his right, title, and interest under the provisions of said lease to the right, title, and interest of the United States of America under the provisions of said Exploration Project Contract, and agrees that the lien and claim of the United States of America under the provisions of said contract shall be prior to the undersigned's rights to rentals or royalties under the terms of said lease; and

The undersigned further agrees that if said leasehold interest should be surrendered or if said lease should terminate at any time prior to the expiration of the rights of the United States of America under said Exploration Project Contract, the undersigned shall assume and does hereby assume all of the obligations of the Lessee under said Exploration Project Contract to make repayment to the United States of America according to the terms of said contract; and

The undersigned agrees to commit no act, nor assert any claim under judicial process or otherwise that may contravene or conflict with the prior lien and claim of the United States of America under the provisions of said Exploration Project Contract.

This undertaking and covenant shall be binding upon the heirs, successors, and assigns of the undersigned.

Dated this 30 day of April, 195 2

B A Hanks

U. S. GOVERNMENT PRINTING OFFICE 16—64582-1

MF-202

LANDLORD'S SUBORDINATION AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the undersigned is the owner in fee simple of that certain parcel of ground in the county of Elko, State of Nevada, described in a certain Exploration Project Contract dated _____, 195__, between L. W. Whitney Moreno's Mng Claim the Lessee of said property, and the United States of America;

NOW, THEREFORE, the undersigned, as Lessor of said property under lease dated June 11-1952, does by these presents subordinate all of his right, title, and interest under the provisions of said lease to the right, title, and interest of the United States of America under the provisions of said Exploration Project Contract, and agrees that the lien and claim of the United States of America under the provisions of said contract shall be prior to the undersigned's rights to rentals or royalties under the terms of said lease; and

The undersigned further agrees that if said leasehold interest should be surrendered or if said lease should terminate at any time prior to the expiration of the rights of the United States of America under said Exploration Project Contract, the undersigned shall assume and does hereby assume all of the obligations of the Lessee under said Exploration Project Contract to make repayment to the United States of America according to the terms of said contract; and

The undersigned agrees to commit no act, nor assert any claim under judicial process or otherwise that may contravene or conflict with the prior lien and claim of the United States of America under the provisions of said Exploration Project Contract.

This undertaking and covenant shall be binding upon the heirs, successors, and assigns of the undersigned.

Dated this 20 day of April, 1952

B. A. Hanks

U. S. GOVERNMENT PRINTING OFFICE 16—64582-1

MF-202

LANDLORD'S SUBORDINATION AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the undersigned is the owner in fee simple of that certain parcel of ground in the county of Elko, State of Nevada, described in a certain Exploration Project Contract dated _____, 195__, between L. W. Whitney - Morning Mng Claim the Lessee of said property, and the United States of America;

NOW, THEREFORE, the undersigned, as Lessor of said property under lease dated Jan 21 - 1957, does by these presents subordinate all of his right, title, and interest under the provisions of said lease to the right, title, and interest of the United States of America under the provisions of said Exploration Project Contract, and agrees that the lien and claim of the United States of America under the provisions of said contract shall be prior to the undersigned's rights to rentals or royalties under the terms of said lease; and

The undersigned further agrees that if said leasehold interest should be surrendered or if said lease should terminate at any time prior to the expiration of the rights of the United States of America under said Exploration Project Contract, the undersigned shall assume and does hereby assume all of the obligations of the Lessee under said Exploration Project Contract to make repayment to the United States of America according to the terms of said contract; and

The undersigned agrees to commit no act, nor assert any claim under judicial process or otherwise that may contravene or conflict with the prior lien and claim of the United States of America under the provisions of said Exploration Project Contract.

This undertaking and covenant shall be binding upon the heirs, successors, and assigns of the undersigned.

Dated this 30 day of April, 195__

D. A. Hanks.

U. S. GOVERNMENT PRINTING OFFICE 16—64582-1

MF-202

LANDLORD'S SUBORDINATION AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the undersigned is the owner in fee simple of that certain parcel of ground in the county of Elko, State of Nevada, described in a certain Exploration Project Contract dated _____, 195__, between L. W. Whitney. Mozencio Mng Claim the Lessee of said property, and the United States of America;

NOW, THEREFORE, the undersigned, as Lessor of said property under lease dated Jan 21-1952, does by these presents subordinate all of his right, title, and interest under the provisions of said lease to the right, title, and interest of the United States of America under the provisions of said Exploration Project Contract, and agrees that the lien and claim of the United States of America under the provisions of said contract shall be prior to the undersigned's rights to rentals or royalties under the terms of said lease; and

The undersigned further agrees that if said leasehold interest should be surrendered or if said lease should terminate at any time prior to the expiration of the rights of the United States of America under said Exploration Project Contract, the undersigned shall assume and does hereby assume all of the obligations of the Lessee under said Exploration Project Contract to make repayment to the United States of America according to the terms of said contract; and

The undersigned agrees to commit no act, nor assert any claim under judicial process or otherwise that may contravene or conflict with the prior lien and claim of the United States of America under the provisions of said Exploration Project Contract.

This undertaking and covenant shall be binding upon the heirs, successors, and assigns of the undersigned.

Dated this 20 day of April, 1952

B. A. Santo

U. S. GOVERNMENT PRINTING OFFICE 16—64582-1

MF-202

LANDLORD'S SUBORDINATION AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the undersigned is the owner in fee simple of that certain parcel of ground in the county of Elko, State of Nevada, described in a certain Exploration Project Contract dated _____, 195__, between L. W. Whitney Morris Mng Claim, the Lessee of said property, and the United States of America;

NOW, THEREFORE, the undersigned, as Lessor of said property under lease dated Jan 21-1952, does by these presents subordinate all of his right, title, and interest under the provisions of said lease to the right, title, and interest of the United States of America under the provisions of said Exploration Project Contract, and agrees that the lien and claim of the United States of America under the provisions of said contract shall be prior to the undersigned's rights to rentals or royalties under the terms of said lease; and

The undersigned further agrees that if said leasehold interest should be surrendered or if said lease should terminate at any time prior to the expiration of the rights of the United States of America under said Exploration Project Contract, the undersigned shall assume and does hereby assume all of the obligations of the Lessee under said Exploration Project Contract to make repayment to the United States of America according to the terms of said contract; and

The undersigned agrees to commit no act, nor assert any claim under judicial process or otherwise that may contravene or conflict with the prior lien and claim of the United States of America under the provisions of said Exploration Project Contract.

This undertaking and covenant shall be binding upon the heirs, successors, and assigns of the undersigned.

Dated this 20 day of April, 195 2

B A Hanks

U. S. GOVERNMENT PRINTING OFFICE 16—64582-1

MF-202

LANDLORD'S SUBORDINATION AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the undersigned is the owner in fee simple of that certain parcel of ground in the county of Elko, State of Nevada, described in a certain Exploration Project Contract dated _____, 195__, between L. W. Whitney Moencio Mine Claim, the Lessee of said property, and the United States of America;

NOW, THEREFORE, the undersigned, as Lessor of said property under lease dated Jan 21 - 1953, does by these presents subordinate all of his right, title, and interest under the provisions of said lease to the right, title, and interest of the United States of America under the provisions of said Exploration Project Contract, and agrees that the lien and claim of the United States of America under the provisions of said contract shall be prior to the undersigned's rights to rentals or royalties under the terms of said lease; and

The undersigned further agrees that if said leasehold interest should be surrendered or if said lease should terminate at any time prior to the expiration of the rights of the United States of America under said Exploration Project Contract, the undersigned shall assume and does hereby assume all of the obligations of the Lessee under said Exploration Project Contract to make repayment to the United States of America according to the terms of said contract; and

The undersigned agrees to commit no act, nor assert any claim under judicial process or otherwise that may contravene or conflict with the prior lien and claim of the United States of America under the provisions of said Exploration Project Contract.

This undertaking and covenant shall be binding upon the heirs, successors, and assigns of the undersigned.

Dated this 20 day of April, 1952

B A Hanks

U. S. GOVERNMENT PRINTING OFFICE 16—64582-1

MF-100

1. (a) copper
   (b) Small amount silver

2. Arizona patent - Survey No. 1615, Lot 37, Morencio and Paddy locations. Arizona was formerly known as the Rochester, Morencio was the Lincoln and Paddy was the War Eagle.

   (a) 380 ft shaft
   (b) 60 ft crosscuts
   (c) 25 ft tunnels
   (d) 400 ft open cuts showing veins

3. (a) 12-1/2 miles to Henry on U.P. R.R. Westerly
   23 miles to Contact, Nevada on U.P.R.R. Northwesterly
   (b) Porter Mining District
   (c) T. 44 N., R. 64 East, Sections 22-23.
   (d) Elko County, Nevada

4. (b) Lessee

5. No regular production - several cars of ore were shipped 40 years ago. Estimated date of production - October, 1953.

6. (a) The applicant has several years experience in different mining properties in Oregon, Idaho and Nevada - Member Idaho Mining Association-Ranching at present at Meadows, Idaho.

   (b) B.A. Hanks who will supervise the work is native of Virginia City, Nevada - twenty years experience as miner, timberman, tunnel and shaft contractor and manager - past twenty five years in private practice - examination and consulting.

   References: Boise Payette Lumber Co. Boise, Idaho (letter attached)
   C. M. Ehlen, Contractor and Machinery, Boise, Idaho
   Harry March, Secretary, Idaho Mining Association
   H.F. England Co. Oroville, California
   Ellsworth Wood, Edmonton, Alberta - West Coast Oil Co.

7. (a) These claims were located in the early 70's by prospectors Knoll and Turo. Purchased in the 80's by W. J. Hanks of Sun Creek Land & Cattle Co. formerly foreman of Con Virginia Mine in Virginia City. They have been held by Hanks' heirs from that time to the present. B.A. Hanks shipped ore from the Arizona and Morencio claims in 1910 - occasionally up to 1916. This was the only ore shipped from the property. This ore averaged 8% copper as taken from the shaft. Sorted ore ran 19%. Some of the ore was hauled by team to Wells, Nevada - sixty miles. There was no possibility of making a mining operation in those times. Smelter rates were high and copper prices erratic. In fact it was useless to attempt to develop a small copper property under existing conditions over a period of thirty years.

   The report made by Schrader U.S.G.S. Bulletin 497, where McArdle claimed to have shipped high grade copper and silver ore from this property was pure fabrication. The only ore shipped was by Hanks, and about twenty tons that was stolen off the Arizona dump. Signed B.A. Hanks

(b) The Marshall Mines, formerly the Seattle Contact, have produced over a period of years. Also Queen of the Hills, Brooklyn and Bellevue. These properties are 10 miles Northwesterly of the Arizona.

(c) There are no private reports available now. Phillip Diedesheimer of Virginia City visited the property and recommended it in 1910. An engineer, W. T. Bradley of London, England, made a report which was very favorable. There have been no attempts to do anything with the property for the past 35 years. The larger companies wanted open pit operations and the fluctuations in copper prices discouraged smaller operators. By B.A. Hanks.

8. Wayne Whitney, Lessee, Meadows, Idaho.

9. None

10. None

11. Unapplicable.

12. Maps herewith show surface veins - also vertical cross-section giving probable results with this development at ground water level which is estimated at300 to 35o feet. U.S.G.S. report No. 497 by Schrader, Pages 136, 137 and 138 gives a good report on the geology, with the exception of gangue minerals at Arizona and Morencio claims. These are limonite, kaolin, calc-spar, quartz and manganese - principal copper minerals are chalcopyrite, chrysocolla and black oxides. The Paddy has the typical contact vein gangue garnet, axinite, etc. The ore in the Paddy is lower grade - 2 to 3 per cent copper.

The Arizona is a fault fissure in the lime, breaking from a fault which shows to the Northeast with considerable displacement in the regular trend of granite.

Ore taken from the Arizona shaft, which is sunk on the best ore chutes and followed then down on an incline to a depth of 120 feet, would average 8% for all ore taken from the shaft, collar to bottom. Fines rejects from ore shipped will run 3-1/2% copper. This is leached material which was screened out of the coarse ore.

Proposed tunnel on the Checkmate Vein of 1500 feet will be on ore all the way from the East Morencio end line. This vein is opened by surface cuts. It is believed that the dip of the Arizona may be such that it will not require this footage. In that case would expect to use the cost of remaining work on crosscuts or winze, whichever in the judgment of both parties would be most beneficial.

(b)(1) Maps show veins and opening and general situation as to proposed development. Original intention was to drive 1200 feet - decided to drop down 300 feet farther with the purpose of reaching the ground water level without sinking.

(b)(2) Checkmate drift -
1000 ft. long, 125 ft deep, 5 ft wide, 44,900 tons, 3% ore

Arizona -
50 ft long, 300 ft deep, 4 ft wide, 4,000 tons, 8% ore

Morencio -
50 ft long, 35o ft deep, 4 ft wide, 4,700 tons, 7% ore

Arizona Vein	Est. Tons	Metal Cont.%	Gross	Rec.Value	Est. Cost Production
Measured	100	8% cu.	40.00	21.50	18.50
Probable	4000	8%	40.00	15.00	25.00
Morencio	4700	7%	36.00	11.00	25.00
Checkmate	44900	3%	(This ore would require incentive price to make profitable.)		

Morencio and Arizona below the 300 ft level believed favorable for a large vein of high grade ore if it reaches the ground water level. The primary chalcopyrite in the surface working is of good grade, running arbund 20% with a minimum of iron and should show a deposit ranging around 15% copper in the secondary zone. All development on the Arizona and Morencio claims.

13. Distance to Contact R.R. point - 23 miles
Distance to Siding Henry - 12-1/2 miles

Residence will be at mine - road fair for 4 miles - gravel next 5 miles and good highway for the balance. It is expected to build about a mile of new road to proposed adit.

14. In War Eagle Creek below the Paddy Claim there is a good spring - ample water for 100 ton mill year around. This on new located claim where mill site was on east endline of Paddy named Mill Site Claim - Wayne Whitney, locator.

15. International 50 h.p. Diesel engine.

16. No previous operation of consequence.

17. I have 3/4 ton pickup - 1-1/2 ton truck, 285 cu.ft. Denver Gardner compressor with International Diesel engine - 500 gal. storage tank; camp buildings and shop will have to be constructed.

18. The Paddy Claim does not figure in this development. L.W. Whitney is Lessee of entire project and it is intended to project a lower tunnel from below the Paddy gaining an added 200 ft of depth.

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA
FOR USE UNDER THE
DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. DMEA-2554

Date received 5-27-52

D. W. Whitney
Meadows, Idaho

April 20 1952

Name and address of applicant

Date

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (5) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 27 1952

4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☒ Lessee.
   - ☐ Contractor.
5. Number of years in production No regular operations

   If not in production or operation, estimated date when production will begin Nov 1953
6. Experience of operators:

   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
L. W. Whitney	Lessee		85,000			10,000	1100.00
Meadows							
Idaho							
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves.

(*b*) If deposit is other than plac

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)					

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

CERTIFICATION

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

(Name of company)

By L. W. Whitney
(Signature of authorized official)

7-20-52
(Date)

Lessee
(Title)

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

U. S. GOVERNMENT PRINTING OFFICE 16—63792-1

FILE COPY
SURNAME:

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

JUN 16 1952

AIR MAIL

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

Re: Docket No. [illegible]A-2554 (Copper)
L. [illegible] Whitney
Arizona Mining Claims
Porter Mining District
Elko County, Nevada

Dear Mr. Miller:

To permit us to properly evaluate the subject application, we are requesting that a field examination be made of the Applicant's property in Elko County, Nevada. In making the examination we would appreciate it if the Field Team would take into consideration the following points:

1. The Checkmate Vein on which the proposed tunnel would be driven is not established by any sampling, trenching or tunneling so far as is shown by supporting evidence. This vein with its width, dip and mineralization should be carefully mapped, especially in its relationship to the other known veins in the immediate vicinity.

2. Because the objective of the exploration project is to explore in depth the hypothetical juncture of the Hanks Vein, Checkmate Vein and Arizona Veins, the Field Team should obtain sufficient geological information to substantiate or refute the probability of such an occurrence.

3. Study the possibility of a preliminary phase of exploration to establish by diamond drilling the presence of such a juncture, type of mineralization and especially its relative elevation to that of the proposed tunnel.

If the report of the Field Team is favorable, please request the Applicant to furnish you seven copies each of the Owner's Consent to Lien for the following claims:

Bessie [illegible] Scotten for the Arizona Claim
T. J. Manavon for the Paddy Claim
B. A. Hanks for the Morenci Claim

For your information, we are enclosing copies of the memoranda of the commodity specialists of the Bureau of Mines and Geological Survey.

Sincerely yours,

(signed) FRANK E. JOHNSON

(FHB)

Chairman, Operating Committee

Enclosures 2

APPROVED:

Charles H. Merrill
Member, Bureau of Mines

D. M. Lemmon
Member, Geological Survey

HFKeller/gla 6-11-52

J.N. 6-16-52

cc to: Adm. Reading File
Operating Committee
Docket
Messrs. C.H.Johnson, Rm. 3621
Ned Nelson, Rm.4216 GSA
Ellis
Keller

FILE COPY
NO. SURNAME:

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

JUN 16 1952

Mr. L. J. Whitney
Meadows, Idaho

Re: Docket No. DME-2554 (Copper)
Arizona Mining Claims
Carter L.D. District
Elko County, Nevada

Dear Mr. Whitney:

The application for assistance in exploring your property in Elko County, Nevada, under the above captioned docket number, has been reviewed by the Ore and Miscellaneous Metals Division of the Defense Minerals Exploration Administration. Your application has been referred for a field examination to the Executive Officer of Region III at the following address:

Mr. H. F. Keller
Executive Officer, Region III
DME Field Team
1012 Flood Building
870 Market Street
San Francisco 2, California

The Regional Office will contact you at the earliest opportunity in regard to your project.

Sincerely yours,

C. O. Mittendorf (fw)

Acting Administrator

H.N. 6-16-52

HFKeller/jem
6/12/52
cc to: Adm. Reading File
Docket
Messrs. CHJohnson-3521
Red Nelson-4216 USA
Ellis Keller
Field Team, Region III (2)

6/11/52 gla

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

June 10, 1952

Memorandum

To: E. W. Ellis, DMEA

From: C. H. Johnson

Subject: DMEA-2554, L. W. Whitney, Arizona and Morencio claims (copper), Elko County, Nevada

The proposed 1500-foot adit, to cost $49,315, is not justified by any factual information submitted by the applicant. The existence of the Checkmate vein, on which the adit is to be driven, is not established by surface workings or sampling, so far as he shows. Neither is it safe to assume that the Arizona and Hanks veins will converge at depth, as pictured in Applicant's cross section.

The statements by Applicant and by Schrader, U. S. G. S., who examined the property in 1910, regarding shipment of copper ore of good grade from these deposits, suggest that exploration may be justified, though probably on a more modest scale than proposed. We have no report on the property here, and I would concur in a request for examination by the Field Team.

The application is returned herewith.

C. H. Johnson

C. H. Johnson

Enclosure

Copy to - Mr. Nelson
Minerals Division
C. H. Johnson
Base Metals Branch
Files

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 10 1952

IN REPLY REFER TO:

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

May 28, 1952

Memorandum

To: Mr. E. Wm. Ellis

From: N. E. Nelson

Subject: DMEA-2554, L. W. Whitney,
Prospects at Contact, Nevada.

Bulletin 497 USGS supplies the following information. The field work was done in 1910 by F. C. Schrader.

TURO-SHECKLES MINE

"The Turo-Sheckles mine is about half a mile northwest (up the slope) from the War Eagle mine, on the Rochester claim, at an elevation of about 7,600 feet. It is located at about 900 feet outside of the contact, on a parallel ledge or ore bed in whitish limestone. Both the ledge and the limestone have a steep normal dip outward toward the south. Dikes of quartz syenite porphyry are intruded within 30 feet of the ledge on the north. The ledge is opened by a 120-foot shaft which shows neigher wall but in which no crosscutting has yet been done.

"The ore is mostly carbonate and oxide of copper, with some sulphide in depth. Three carloads of the ore were shipped. They contained 18, 24, and 32 per cent of copper, and averaged 7 ounces in silver to the ton. About 75 tons of 12 per cent copper ore and 450 tons of 6 per cent ore lie on the dump."

TURO MINE

"The Turo mine is about 200 yards southwest of the opening last described, at an elevation of about 7,600 feet, on the Lincoln claim, which joins the Rochester on the southwest. It is on what is known as the Hanks vein, which lies conformably in vertical dark country-rock limestone, is 12 feet wide, and contains principally carbonate and oxide copper ore in a bowldery-like garnetiferous gangue with some included limestone. It is opened by an 80-foot shaft, which is now considerably caved. About 60 tons of 12 per cent copper ore is on the dump."

The Turo-Sheckles mine is now the Arizona and the Turo is now the Morenci.

The map opposite page 100 shows the general geologic relationships of the sedimentary and granular rocks to be much as shown on the Plot of Arizona Mining Claims furnished by the applicant.

No mention is made in the Bulletin of the Checkmate vein on which the proposed adit would be driven. No data are given to support the optimistic conjecture sketched in the vertical cross section of the application.

"Contact" type copper deposits are often difficult to follow and liable to sudden terminations. In this case diamond drilling before adit driving seems indicated.

Inasmuch as the application speaks of and maps structures not suggested in the Bulletin, a field team examination is needed to bring the technical information up to date, and such is warranted.

N. E. Nelson

N. E. Nelson
Geologist

EXPLORATION

Subject: DMEA-2554
Re: Exploration Loan
Arizona, Morencio, and Paddy
May 27, 1952

Mr. L. W. Whitney
Meadowa
Idaho

My dear Mr. Whitney:

This will acknowledge receipt of your application dated April 20, 1952 for a loan under the Defense Production Act of 1950.

Your application was assigned Docket Number DMEA-2554 and referred to the Rare and Miscellaneous Metals Division.

Kindly refer to DMEA-2554 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS

Robert E. Adams
Administrative Officer

7862

DMEA-2554

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

Office of
Executive Officer
DMEA Field Team
Region III

1012 Flood Bldg.
870 Market St.
San Francisco 2, Calif.

May 21, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 27 1952

Memorandum

To: Defense Minerals Exploration Administration, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Application for an Exploration Loan (Copper), Porter Mining District, Elko County, Nevada. Applicant: L. W. Whitney, Whitney Ranch, Meadows, Idaho.

Attached are three of the four sets of MF-103 and MF-100 forms, dated April 20, 1952, received in this office on May 19 from subject applicant.

The fourth set is being retained in this office for use in making a preliminary examination of the property should an engineer or geologist be in the area in the immediate future.

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

Attachment

Copy to: E. H. Bailey, USGS

P.S. Also attached are six copies each of Memo. of Agreement, Lease and Option (2), Assignment of Option, and Landlord's Subordination Agreement (2).

H.C.M.

Asphalt Paving * Road Oiling * Cement Work * Bridge and Building Construction

A. D. Stanley
C. M. Ehlen

STANLEY & EHLEN

Contractors

P. O. Box 1605 * Phone 4619

2901 Main St. * Boise, Idaho

March 18, 1952

L. W. Whitney
Meadows, Idaho

Dear Sir;

The writer has personally known Mr. Blaine A. Hanks of Boise, Idaho, for the past 25 years. During that time, Mr. Hanks has made a number of examinations of mining properties for me and has made excellent reports on his surveys. During the early 1930's, I was associated with Mr. Hanks on several short term options to purchase contract and the options were relinquished. Mr. Hanks located this property and his early reports of the value have been verified in every detail in subsequent operations by various companies at the mine.

The Monarch mine in Atlanta Idaho

Accompanied by other engineers, I have visited the Boston and Arizona Mines in the Contact, Nevada area, and have seen the development under Mr. Hanks' management of these properties. My engineering advice was that the Boston development at a cost of around $20,000.00 was exceedingly low for even the period in which the work was carried out. An independent engineering report on the Boston and Arizona mines indicated possibilities of large high grade ore bodies that could be profitably developed and mined. Mr. Hanks' handling of these properties would indicate excellent mining judgement and operation on the scale attempted at the time the properties were active.

To my personal knowledge and from information available among the mining people of Southern Idaho, Mr. Hanks has always shown calm and even cold-blooded appraisals of mine values. He is known to be conservative, honest and above board in his business transactions.

Yours Truly,

C. M. Ehlen

CME/s

Original on file

Form MF-200
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 3 1952

GENERAL TECHNICAL DATA
FOR USE UNDER THE
DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. _____

Date received _____

L. W. Whitney

Meadows, Idaho.

Name and address of applicant

Date _____

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (5) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☒ Lessee.
   - ☐ Contractor.
5. Number of years in production No regular operation

   If not in production or operation, estimated date when production will begin Nov 1953
6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
L. W. Whitney	Lessee		85,000			~~10,000~~	~~1000.00~~
Meadows						15,000	1000.00
Idaho							
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves.

(b) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)					

(c) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

CERTIFICATION

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

(Name of company)

By L. W. Whitney
(Signature of authorized official)

5-20-52
(Date)

Lessee
(Title)

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

U. S. GOVERNMENT PRINTING OFFICE 16—63792-1

MF-100

1. (a) copper
   (b) Small amount silver

2. Arizona patent - Survey No. 1615, Lot 37, Morencio and Paddy locations. Arizona was formerly known as the Rochester, Morencio was the Lincoln and Paddy was the War Eagle.

   (a) 380 ft shaft
   (b) 60 ft crosscuts
   (c) 25 ft tunnels
   (d) 400 ft open cuts showing veins

3. (a) 12-1/2 miles to Henry on U.P. R.R. Westerly
   23 miles to Contact, Nevada on U.P.R.R. Northwesterly
   (b) Porter Mining District
   (c) T. 44 N., R. 64 East, Sections 22-23.
   (d) Elko County, Nevada

4. (b) Lessee

5. No regular production - several cars of ore were shipped 40 years ago. Estimated date of production - October, 1953.

6. (a) The applicant has several years experience in different mining properties in Oregon, Idaho and Nevada - Member Idaho Mining Association-Ranching at present at Meadows, Idaho.

   (b) B.A. Hanks who will supervise the work is native of Virginia City, Nevada - twenty years experience as miner, timberman, tunnel and shaft contractor and manager - past twenty five years in private practice - examination and consulting.

   References: Boise Payette Lumber Co. Boise, Idaho (letter attached)
   C. M. Ehlen, Contractor and Machinery, Boise, Idaho
   Harry March, Secretary, Idaho Mining Association
   H.F. England Co. Oroville, California
   Ellsworth Wood, Edmonton, Alberta - West Coast Oil Co.

7. (a) These claims were located in the early 70's by prospectors Knoll and Turo. Purchased in the 80's by W. J. Hanks of Sun Creek Land & Cattle Co. formerly foreman of Con Virginia Mine in Virginia City. They have been held by Hanks' heirs from that time to the present. B.A. Hanks shipped ore from the Arizona and Morencio claims in 1910 - occasionally up to 1916. This was the only ore shipped from the property. This ore averaged 8% copper as taken from the shaft. Sorted ore ran 19%. Some of the ore was hauled by team to Wells, Nevada - sixty miles. There was no possibility of making a mining operation in those times. Smelter rates were high and copper prices erratic. In fact it was useless to attempt to develop a small copper property under existing conditions over a period of thirty years.

   The report made by Schrader U.S.G.S. Bulletin 497, where McArdle claimed to have shipped high grade copper and silver ore from this property was pure fabrication. The only ore shipped was by Hanks,and about twenty tons that was stolen off the Arizona dump. θ Signed B.A. Hanks

(b) The Marshall Mines, formerly the Seattle Contact, have produced over a period of years. Also Queen of the Hills, Brooklyn and Bellevue. These properties are 10 miles Northwesterly of the Arizona.

(c) There are no private reports available now. Phillip Diedesheimer of Virginia City visited the property and recommended it in 1910. An engineer, W. T. Bradley of London, England, made a report which was very favorable. There have been no attempts to do anything with the property for the past 35 years. The larger companies wanted open pit operations and the fluctuations in copper prices discouraged smaller operators. By B.A. Hanks.

8. Wayne Whitney, Lessee, Meadows, Idaho.

9. None

10. None

11. Unapplicable.

12. Maps herewith show surface veins - also vertical cross-section giving probable results with this development at ground water level which is estimated at300 to 35o feet. U.S.G.S. report No. 497 by Schrader, Pages 136, 137 and 138 gives a good report on the geology, with the exception of gangue minerals at Arizona and Morencio claims. These are limonite, kaolin, calc-spar, quartz and manganese - principal copper minerals are chalcopyrite, chrysocolla and black oxides. The Paddy has the typical contact vein gangue garnet, axinite, etc. The ore in the Paddy is lower grade - 2 to 3 per cent copper.

The Arizona is a fault fissure in the lime, breaking from a fault which shows to the Northeast with considerable displacement in the regular trend of granite.

Ore taken from the Arizona shaft, which is sunk on the best ore chutes and followed then down on an incline to a depth of 120 feet, would average 8% for all ore taken from the shaft, collar to bottom. Fines rejects from ore shipped will run 3-1/2% copper. This is leached material which was screened out of the coarse ore.

Proposed tunnel on the Checkmate Vein of 1500 feet will be on ore all the way from the East Morencio end line. This vein is opened by surface cuts. It is believed that the dip of the Arizona may be such that it will not require this footage. In that case would expect to use the cost of remaining work on crosscuts or winze, whichever in the judgment of both parties would be most beneficial.

(b)(1) Maps show veins and opening and general situation as to proposed development. Original intention was to drive 1200 feet - decided to drop down 300 feet farther with the purpose of reaching the ground water level without sinking.

(b)(2) Checkmate drift -
1000 ft. long, 125 ft deep, 5 ft wide, 44,900 tons, 3% ore

Arizona -
50 ft long, 300 ft deep, 4 ft wide, 4,000 tons, 8% ore

Morencio -
50 ft long, 35o ft deep, 4 ft wide, 4,700 tons, 7% ore

Arizona Vein	Est. Tons	Metal Cont.%	Gross	Rec.Value	Est. Cost Production
Measured	100	8% cu.	40.00	21.50	18.50
Probable	4000	8%	40.00	15.00	25.00
Morencio	4700	7%	36.00	11.00	25.00
Checkmate	44900	3%	(This ore would require incentive price to make profitable.)		

Morencio and Arizona below the 300 ft level believed favorable for a large vein of high grade ore if it reaches the ground water level. The primary chalcopyrite in the surface working is of good grade, running around 20% with a minimum of iron and should show a deposit ranging around 15% copper in the secondary zone. All development on the Arizona and Morencio claims.

13. Distance to Contact R.R. point - 23 miles
Distance to Siding Henry - 12-1/2 miles

Residence will be at mine - road fair for 4 miles - gravel next 5 miles and good highway for the balance. It is expected to build about a mile of new road to proposed adit.

14. In War Eagle Creek below the Paddy Claim there is a good spring - ample water for 100 ton mill year around. This on new located claim where mill site was on east endline of Paddy named Mill Site Claim - Wayne Whitney, locator.

15. International 50 h.p. Diesel engine.

16. No previous operation of consequence.

17. I have 3/4 ton pickup - 1-1/2 ton truck, 28.5 cu.ft. Denver Gardner compressor with International Diesel engine - 500 gal. storage tank; camp buildings and shop will have to be constructed.

18. The Paddy Claim does not figure in this development. L.W. Whitney is Lessee of entire project and it is intended to project a lower tunnel from below the Paddy gaining an added 200 ft of depth.

C
O
P
Y

LOCATION CERTIFICATE

KNOW ALL MEN BY THESE PRESENTS: That the undersigned owner of the lode hereinafter described in order to complete and perfect his location and the title thereto does hereby certify:

1. The name of the lode or vein is MORENCIO
2. The name of the locator- B.A.HANKS
3. The date of the location was MARCH 25th 1942
4. The said claim is situated in the PORTIS mining District, ELKO County, Nevada; and is situated ON THE EASTERN END OF THE WHITE PEAKS RANGE and parallels the Arizona Patented lcima on the south side
5. The number of linear feet westerly direction from the point of discovery is 210 and the number claimed in a easterly direction is 1290 from the point of discovery, together with 300 feet on each side of the vein.
6. As near as may now be given the general course of the lode or vein is easterly and westerly.
7. The discovery shaft or its equivalent sunk upon the claim is situated App. 750 ft. easterly from the discovery, it consists of open cut at least 4 x 6 x 10 ft and shows therein a lode deposit of mineral in place.
8. The corners and side-centers are located and marked as follows:

At and for North East corner is a post 4" x 4" x 5 ft long marked N.E. corner Morencio Mining Claim

At and for North West corner is a post 4" x 4" x 5 ft long marked N.W. corner Morencio Mining Claim

At and South West corner is a post 4" x 4" x 5 ft long marked S.W. corner Morencio Mining Claim

At and for South East corner is a post 4" x 4" x 5 ft long marked S.E. corner Morencio Mining Claim

At and for side-center on North side line is a post marked North side-center.

At and for side-center on South side line is a post marked South side-center.

Dated this 9th day of May, 1942.

/s/ B. A. Hanks

Locators

No. 78314

State of Nevada)
)
County of Elko)

Filed for record at the request
of B. A. Hanks
on the 11 day of May, 1942
at 9:07 o'clock A.M. and
recorded in Book 27 Mining Locations
Page 49
Records of said County

Gertrude Williams
County Recorder

C
O
P
Y

LOCATION CERTIFICATE

- - - -

KNOW ALL MEN BY THESE PRESENTS: That the undersigned owner of the lode hereinafter described in order to complete and perfect his location and the title thereto does hereby certify:

1. The name of the lode or vein is PADDY
2. The name of the Locator- B.A.HANKS
3. The date of the location was MARCH 25th, 1942
4. The said claim is situated in the Portis mining District, Elko County, Nevada; and is situated in township 44 North Range 64 east, Section 23, and near War Eagle gulch and joins the Morencio claim on the west end line of the Paddy
5. The number of linear feet claimed in a westerly direction from the point of discovery is 1390 and the number claimed in a easterly direction is 110 from the point of discovery, together with 300 feet on each side of the vein.
6. As near as may now be given the general course of the lode or vein is Easterly and Westerly
7. The discovery shaft or its equivalent sunk upon the claim is situated 60 ft. app. southerly from the discovery, it consists of open cut at least 16' by 4' x 4' and shows therein a lode deposit of mineral in place.
8. The corners and side-centers are located and marked as follows:

At and for North East corner is a post 4 by 4" by 5'
marked N.E. corner Paddy Mining Claim

At and for North West corner is a post 4" by 4" x 5'
marked N.W. corner Paddy Mining Claim

At and for South West corner is a post 4"x4"x5'
marked S.W. corner Paddy Mining Claim

At and for South East corner is a post 4"x4"x5'
marked S.E. corner Paddy Mining Claim

At and for side-center on north side line is a post marked North side-center.

At and for side-center on South side line is a post marked South side-center.

Dated this 9th day of May, 1942.

s/s B. A. Hanks

Locators

File Number 78315

STATE OF NEVADA)
)
County of Elko)

Filed for record at request of

A.Hanks on the 11 day of May 1942
at 9.09 O'clock A.M.
Recorded in Book 27 Mining Locations
Page 49 to 50 inclusive,
Records of said County.

Gertrude Williams
County Recorder.

Forward	$ 24,715.40
Air or electric trammer	$ 1,725.00
Labor at 15.50 per foot	22,875.00
	$ 49,315.40

7. (c) 4-d cat, 1-3/4 ton pickup, 1 - 1-1/2 ton truck, Denver Gardner Compressor, 285 cu.ft. 50 h.p. International Diesel Engine. This all used equipment - rental or depreciation as allowed by the government engineers.

8. 2 miners 1.60 per hr
   2 muckers 1.40 " "
   2 shop men 1.40 " "
   1 Superintendent $450.00 per month

   If conditions warrant might be advisable to put on a bonus basis, for footage exceeding normal shift advance.

9. Assaying 190.00
   Accounting - on other list No. 7 (b)
   Power " " " " "

10. (a) $24,657.70

    (b) Yes, can furnish the amounts as required by monthly account.

11. The equipmentlisted here is quoted at used prices prevailing now for good used and reconditioned.

M-103

1. (a) Arizona patented Claim - Morencio and Paddy located claims. Map attached showing location as to patent survey and section numbers. This development confined to the Arizona and Morencio.

(b) Lessee
Copies of options and agreements are attached hereto.

(c) Both areas are the same. Attached map shows place of beginning tunnel marked A on west end of Paddy Claim, thence on Checkmate Vein 1500 feet to a point marked B.

No liens or encumbrances of any nature on this property. Signed release of lessors are attached to this report.

2. (a) Copper
(b) Map attached

3. (a) Tunnel 1500 ft. long running in the Checkmate Vein with the object of cutting the Arizona and Morencio Veins. Total cost - $49,315.40.

(b) Can start on ten days notice. Ten months to complete the proposed work.

4. Map attached.

5. None - will require housing for camp and shop.

6. (a) None
(b) Shop at portal $ 421.50
Bunk and cook houses 672.00
Fixtures 194.00

7.(a) None

7.(b)

Mile road to tunnel portal	397.00
Air compressor, engine	2,700.00
Two drifters(Ingersoll), hose, tank and bars	932.00
Air pipe 3" - 1500 ft.	480.00
Rails, spikes, plates - 1500 ft	625.00
Ties	125.00
Powder - 6 tons	2,760.00
Caps and fuse	386.40
Vent pipe - 10"	160.00
Suction Fan - 10"	125.00
Carbide	34.00
Mine cars - 4	148.50
Aux. air receiver	75.00
Fittings	20.00
Forge, small tools, etc.	85.00
Shovel loader - used	1,900.00
Compensation Ins. Social Security	3,750.00
Supervision and accounting	5,000.00
Emergency kit	25.00
Timber	2,100.00
Transportation equipment to mine	400.00
Power, gas, oil and maintenance	1,200.00

(Cont)

LOMEA-2554

Form MF-103
(Ju[illegible] June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

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

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 3 1952

Not To Be Filled in by Applicant

Docket No. .....
Metal or Mineral .....
Date Received .....
Amount $.....
Participation (Government %)
.....

Name and address of applicant

Date .....

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

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

INSTRUCTIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

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

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

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

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

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

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

CERTIFICATION

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

(Name of company)	By L. W. Whitney (Signature of authorized official)
4-20-52 (Date)	Lessee (Title)

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

U. S. GOVERNMENT PRINTING OFFICE 16—64067-2

Forward	$ 24,715.40
Air or electric trammer	1,725.00
Labor at 15.50 per foot	22,875.00
	$ 49,315.40

7.(c) 4-d car, 1-3/4 ton pickup, 1 - 1-1/2 ton truck, Denver Gardner Compressor, 285 cu.ft. 50 h.p. International Diesel engine. This all used equipment - rental or depreciation as allowed by the government engineers.

8. 2 miners 1.60 per hr.
2 muckers 1.40 " "
2 shop men 1.40 " "
1 superintendent $450.00 per month

If conditions warrant might be advisable to put on a bonus basis, for footage exceeding normal shift advance.

9. Assaying $190.00
Accounting - on other list No. 7(b)
Power " " " "

10. (a) $24,657.70

(b) Yes, can furnish the amounts as required by monthly accounts.

11. The equipment listed here is quoted at used prices prevailing now for good used and reconditioned.

M-103

1. (a) Arizona patented Claim - Morencio and Paddy located claims. Map attached showing location as to patent survey and section numbers. This development confined to the Arizona and Morencio.

   (b) Lessee
   Copies of options and agreements are attached hereto.

   (c) Both areas are the same. Attached map shows place of beginning tunnel marked A on west end of Paddy Claim, thence on Checkmate Vein 1500 feet to a point marked B.

   No liens or encumbrances of any nature on this property. Signed releases of lessors are attached to this report.

2. (a) Copper
   (b) Map attached

3. (a) Tunnel 1500 ft. long running in the Checkmate Vein with the object of cutting the Arizona and Morencio Veins. Total cost - $49,315.40.

   (b) Can start on ten days notice. Ten months to complete the proposed work.

4. Map attached.

5. None - will require housing for camp and shop.

6.

Shop at portal	$ 421.50
Bunk and cook houses	672.00
Fixtures	194.00

7. (a) None
   (b)

Mile road to tunnel portal	397.00
Air compressor, engine	2,700.00
Two drifters(Ingersoll), hose, tank and bars	932.00
Air pipe 3" - 1500 ft.	480.00
Rails, Spikes, plates - 1500 ft.	625.00
Ties	125.00
Powder - 6 tons	2,760.00
Caps and fuse	386.40
Vent pipe - 10"	160.00
Suction Fan - 10"	125.00
Carbide	34.00
Mine cars - 4	148.50
Aux. air receiver	75.00
Fittings	20.00
Forge, small tools, etc.	85.00
Shovel loader, used	1,900.00
Compensation Ins. Social Security	3,750.00
Supervision and accounting	5,000.00
Emergency kit	25.00
Timber	2,100.00
Transportation equipment to mine	400.00
Power, gas, oil and maintenance	1,200.00

(Cont)

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

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

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

Not To Be Filled in by Applicant

Docket No. DMEA-2554
Metal or Mineral
Date Received 5-27-52
Amount $
Participation (Government %)

L. W. Whitney
Meadows Idaho

Name and address of applicant

Date April 20, 1952.

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

DMA Docket Number (if available) _____

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DEPARTMENT OF THE INTERIOR
RECEIVED
MAY 27 1952

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

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

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   (*c*) Furnished by you

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

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

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CERTIFICATION

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

(Name of company)	By L. W. Whitney (Signature of authorized official)
4-20-52 (Date)	Lessee (Title)

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U. S. GOVERNMENT PRINTING OFFICE · 16—64067-2

L. W. Whitney Docket No OMEA. 2554

Questions

1 - Three owners consents to lease -

2 - Phase 1.

Clean out Bizone Shaft and sample drift 50' E & 50' west along vein - where from - assume bottom of shaft? How deep is shaft? Is the shaft to be timbered? What is the cost estimate to clean out and sample shaft including cost of head frame? If owner will purchase material for head frame and details costs are recommended by you for this work the contract could be written on a unit cost basis. What cross section size are the drifts to be

Phase 2

What will it cost to clean out and sample the shaft? Will it require timber? Will the drifts east and west be driven on the vein? X-Section size of drifts and raises and unit cost to drive each unit of work? Headframe cost

General

Whereas include the following claims in contract - Bunny, Gulch, and Sable.

Requested from Mr. Whitney 12-15-54

(*b*) The Government's payments in all cases will be based on actual, necessary costs (including contract unit prices) incurred not in excess of any "allowable maximum," and not in excess of the fixed percentage of the total aggregate estimated cost. Costs will be considered to be incurred only as they are or become due and payable.

(*c*) 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 this contract, shall be allowed as costs of the project in which the Government will participate.

ARTICLE 7. *Reports, accounts, audits.*—(*a*) *Progress reports.* The Operators shall provide the Government with monthly reports of work performed and costs (including contract unit prices) incurred under the contract, in quintuplicate (five copies), upon forms provided by the Government. These progress reports shall be certified by the Operator, and shall constitute both the Operator's invoice of costs incurred on the project during the period covered by the report and his voucher for repayment by the Government, unless the Government requires the use of a standard voucher form with invoice attached. Progress reports shall include surface and/or underground engineering-geological maps or sketches showing the progress of the exploration, with assay-reports on samples taken concurrently with the advance in mineralized ground.

(*b*) *Final report.*—Upon completion of the exploration work or termination of the contract the Operator shall provide the Government with an adequate geological and engineering report, in quintuplicate (five copies), including an estimate of ore reserves resulting from the exploration work.

(*c*) Compliance with requirements.—If, in the opinion of the Government, any of the Operator's reports are insufficient or incomplete, the Government may procure the making or completion of such reports and attachments as an expense of the exploration work; and the Government may withhold approval and payment of any vouchers depending upon insufficient or incomplete reports.

(*d*) *Accounts and audits.*—The Operator shall keep suitable records and accounts of operations, which the Government may inspect and audit at any time. The Government may at any time require an audit of the Operator's records and accounts by a certified public accountant, the cost thereof to be treated as a cost of the project. The Operator shall keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract. Upon the completion of the project or termination of the contract the Operator shall render a final account as provided in Article 12.

ARTICLE 8. *Payments by the Government.*—(*a*) The Government will pay _____ percent of the allowable costs incurred, as they accrue, in an aggregate total amount not in excess of $_____, which is _____ percent of $_____, the agreed, estimated total cost of the project in which the Government will participate; *Provided,* that until the Operator's final report and final accounting have been rendered to the Government, and any final auditing required by the Government has been made, and a final settlement of the contract has been made, the Government may withhold from the last voucher or vouchers such sums as it sees fit not in excess of ten (10) percent of the maximum total which the Government might have been called upon to pay under the terms of the contract.

(*b*) The Government may make any payment or payments direct to independent contractors and to suppliers, for the account of the Operator, rather than to the Operator.

ARTICLE 9. *Repayment by Operator.*—(*a*) If, at any time, the Government considers that a discovery or a development from which production may be made has resulted from the exploration work, the Government, at any time not later than 6 months after the Operator has rendered the required final report and final account, may so certify in writing to the Operator. The certification shall describe broadly or indicate the nature of the discovery or development. In the event of such certification, any minerals mined or produced from the land described in Article 2 within 10 years from the date of this contract, including any mined or produced before the certification, shall be subject to a percentage royalty which the Operator or his successor in interest shall pay to the Government, upon the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, until the total amount contributed by the Government, without interest, is fully repaid, or said 10 years have elapsed, whichever occurs first, as follows:

(1) One and one-half (1½) percent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(2) One and one-half (1½) percent of any such net amounts, plus one-half (½) percent of such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) percent of such net amounts.

(For instance: The percentage royalty on a net amount of five dollars ($5.00) per ton would be one and one-half (1½) percent; on a net amount of ten dollars ($10.00) per ton, three and one-half (3½) percent.)

(*b*) As here used, "net smelter returns," "net concentrator returns," and "other net amounts realized from the sale or other disposition," mean gross revenue from sales; or if not sold, the market value of the material after it is mined in the form in which and the place where it is held. In the case of integrated operations in which the material is not disposed of as such, these terms mean what is or would be gross income from mining operations for percentage depletion purposes in income-tax determination.

(*c*) To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(*d*) This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.

ARTICLE 10. *Assignment, transfer, or loss of Operator's interest.*—Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder. The Operator shall not make any voluntary nor permit any involuntary transfer or conveyance of the Operator's rights in the land described in Article 2, without making suitable provision for the preservation of the Government's right to a percentage royalty on production and lien for the payment thereof; *Provided,* that mere failure by the Operator to maintain the Operator's rights in the land, without any consideration running to the Operator other than relief from the cost of maintaining such rights (as by surrender of a leasehold, failure to perform assessment work, or failure to exercise an option), coupled with complete abandonment by the Operator of all interest in or operations on the land for a period of 10 years from the date of this contract, shall not constitute such a transfer or conveyance. Should the Operator make or permit any transfer or conveyance in violation of this provision, the Operator shall be and remain liable for payment to the Government of the same amounts, at the same times, as would have been paid under the terms of the percentage royalty on production. If for any reason the net smelter returns, net concentrator returns, or other net amounts realized from the sale or other disposition of such production are not available as a means of measuring the amount of the Operator's liability, the amount thereof shall be estimated as well as may be, and in the event of dispute as to such estimates, the determination thereof by the Administrator of Defense Minerals Exploration Administration or by his successor shall be final and binding upon the Operator.

ARTICLE 11. *Title to and disposition of property.*—All facilities, buildings, fixtures, equipment, or other items costing more than $50.00 each, paid for or purchased with funds contributed jointly by the Operator and the Government, although title may be taken in the name of the Operator, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the completion of the work or the termination of the contract shall be disposed of promptly by the Operator for the joint account of the Government and the Operator, either by return to the vendor, by sale to others, or purchase by the Operator at a price at least as high as could otherwise be obtained, as may appear to be for the best interest of the Government, unless the Government, in writing, waives its interest in any such item. If necessary to accomplish such disposition, the Operator shall dismantle, sever from the land, and remove any such item, the cost thereof to be for the joint account of the parties in proportion to their respective interests. If the Operator, within 90 days after the receipt of written notice from the Government, fails, neglects, or refuses to dispose of such property, the Government may itself enter upon the land, take possession of, and remove and dispose of any such property as above provided.

ARTICLE 12. *Termination and completion.*—The Government may, at any time, by written notice to the Operator, terminate this contract: (*a*) If the Operator fails to provide his share of the money necessary to prosecute operations pursuant to the terms of the contract; (*b*) if the Operator, in the opinion of the Government, fails to prosecute operations pursuant to the terms of the contract; or (*c*) if in the opinion of the Government, operations up to the time of the notice have not indicated the probability of making any worth while discovery and in the opinion of the Government further operations are not justified. Upon the completion of the project or any termination of the contract the Operator shall dispose of any remaining materials, supplies, facilities, buildings, fixtures, and equipment in which the Government has an interest, for the joint account of the Operator and the Government in the proportion of their respective interests; shall render to the Government a full and final accounting of his operations under the contract and his expenditures of money; and shall pay to the Government its pro rata share of any money remaining.

ARTICLE 13. *Changes and added provisions.* _____

_____

_____

_____

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

_____
(Operator)

By _____

By _____

By _____

I, _____, certify that I am the _____ secretary of the corporation named as Operator herein; that _____, who signed this contract on behalf of the Operator, was then _____ of said corporation; that said contract was duly signed for and in behalf of said corporation by authority of its governing body, and is within the scope of its corporate powers.

_____

[CORPORATE SEAL]

U. S. GOVERNMENT PRINTING OFFICE · 16—66328-1

MF-200
(June 1951)
(Revised Feb. 1952)

DOCKET NO. DMEA 2554

COMMODITY copper

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

EXPLORATION PROJECT CONTRACT [1]

IT IS AGREED this ..... day of ....., 195..., between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and [2] L. W. Whitney
Meadows, Idaho

hereinafter called the "Operator," as follows:

ARTICLE 1. *Authority for contract.*—This agreement is entered into under the authority of the Defense Production Act of 1950, as amended, pursuant to DMEA Order 1 entitled "Government Aid in Defense Exploration Projects."

ARTICLE 2. *Operator's property rights.*—With respect to that certain land situated in the State of Nevada, County of Elko, described as follows: [3] Known as the Bryana Mining Claims located in the Porter Mining District in Section 22, T. 44 N. R. 64 E. consisting of the Bryana Patented Mining Claim Survey No. 1615. Mineral and Patent Application of Mining Claims. both in accordance Book 27 of Mining Locations on Pages 49 & 50

the Operator represents and undertakes: [4] County of Elko Claims are also shown on attached Map #277 by B. A. Hanks entitled "Plat of Bryana Mining Claims," and is made a part of this contract.

(*a*) ~~That the Operator is the owner, in possession and entitled to possession, and that the property is subject only to the following claims, liens, or encumbrances as to each of which the subordination agreement of the holder is attached:~~

(*b*) That the Operator is a lessee, in possession and entitled to possession, and the Owner's Consent to Lien ~~is~~ are attached.

The Operator shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of the exploration project without any allowance for the use, rental value, depreciation, depletion, or other cost of acquiring, owning, or holding possession thereof. will begin the program of exploration for copper

ARTICLE 3. *Exploration project.*—The Operator, ~~within~~ ..... days from the date of this contract shall commence ~~work on a project of exploration for~~ [5] prior to January 1, 1953,

in or upon the described land; and shall bring the project to completion within a period of eleven months, from the date of this contract. The work to be performed is more fully described in Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, are made a part of this contract. The Government will contribute to the cost of this work as hereafter provided.

ARTICLE 4. *Performance of the work.*—(*a*) *Operator's responsibility.* The work shall be performed efficiently, expertly, in a workmanlike manner, in accordance with good mining standards and State regulations for health and safety and for workmens' compensation and employers' liability insurance, with suitable and adequate equipment, materials, and labor, to bring the project to completion within the time fixed. To the extent specified in Exhibit "A," attached hereto, the work may be performed by independent contractor or contractors; and work not specified in Exhibit "A" for performance by independent contractor may nevertheless be so performed upon amendment of Exhibit "A," as agreed to by the parties, to state the work to be so performed and the estimated unit costs thereof, as provided hereafter.

(*b*) *Independent contracts.*—Any independent contract for the performance of work shall be on a unit-price basis (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved), or on some basis that will indicate the amount due for work performed at any stage of the work to be performed under such independent contract. The Government shall not be nor be considered to be a party to any such independent contract, and the Government's right to terminate the exploration project contract under any of its provisions shall not in any manner be affected by reason of any such independent contract. If the reference in Exhibit "A" to any such independent contract states that the Government's approval thereof is required, the Government may refuse to participate in the cost thereof unless and until it has given its written approval of the independent contract.

(*c*) *Government may inspect.*—The Government shall have the right to enter and observe and inspect the work at all reasonable times, and the Operator shall provide the Government with all available means for doing so. The Government may consult with and advise the Operator on all phases of the work.

ARTICLE 5. *Estimated costs of the project.*—A statement of the estimated cost of the project is set forth in Exhibit "A," attached hereto. Except insofar as any item of requirement or the estimated cost thereof set forth in Exhibit "A" is there or elsewhere designated as an "allowable maximum," such items of requirement and of related cost are estimates only, and may be exceeded to the extent that the Government may from time to time approve for the most economic and beneficial performance of the work within the limitation of the total aggregate estimate of costs. The Government's approval of any such excess over the estimate for an item of requirement or related cost will be signified by its approval and payment of any invoice or voucher for payment which expressly calls attention to such excess. Items expressly designated in Exhibit "A" or elsewhere as "allowable maximum," and the total aggregate estimated cost are limitations, and any excess therein will be for the sole account of the Operator in which the Government will not participate.

ARTICLE 6. *Allowable costs of the project.*—(*a*) The costs of the project in which the Government will participate are limited to the following:

(1) *Independent contracts.*—Payments to independent contractors under independent contracts listed in Exhibit "A." The estimated cost of any work to be performed under an independent contract is or shall be included in the estimate of costs in Exhibit "A" in terms of the estimated numbers of units of work to be performed, the estimated amount to be paid per unit, and the estimated total amount to be paid to the independent contractor, and such estimates shall be allowable maximums above which the Government will not contribute. Regardless of the provisions of any such independent contract, the Government will participate in the payments to the independent contractor only on account of work actually performed and that conforms with the provisions of the exploration project contract, and only to the extent that the Government deems the unit prices for the work under the independent contract to be reasonable and necessary. No such independent contract shall have the effect of increasing the estimated total cost of the exploration project contract nor the maximum amount which the Government will pay as provided in the exploration project contract.

(2) *Labor, supervision, consultants.*—Labor, supervision and technical services (including engineering and geological consultants), a schedule of which is included in the estimate of costs set forth in Exhibit "A." The requirements and related estimated costs for supervision and technical services are allowable maximums.

(3) *Operating materials and supplies.*—Necessary materials and supplies including items of equipment costing less than $50.00 each, and power, water, and fuel, a schedule of which is included in the estimate of costs in Exhibit "A."

(4) *Operating equipment.*—Any operating equipment to be rented or purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or the allowable depreciation, as the case may be, a schedule of which is included in Exhibit "A." Any items listed as owned and to be furnished by the Operator, and related initial allowable depreciation, are allowable maximums.

(5) *Rehabilitation and repairs.*—Any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and to be devoted to the purposes of the exploration contract, a schedule of which is included in the estimate of costs set forth in Exhibit "A." These items are allowable maximums.

(6) *New buildings, improvements, installations.*—Any necessary buildings, fixed improvements, or installations to be purchased, installed, or constructed for the purposes of the exploration work, with the estimated cost of each, a schedule of which is included in the estimate of costs in Exhibit "A." All of these items are allowable maximums.

(7) *Miscellaneous.*—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.

(8) *Contingencies.*—Such other necessary, reasonable direct costs of performing the exploration work, within the limit of the total aggregate estimate of costs, whether or not included in any schedule of costs in Exhibit "A," as may be approved by the Government in the course of the work, as indicated by its approval and payment of invoices and vouchers.

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] State name, address, and nature of organization if any.
[3] Give legal description or enough to identify the property, particularly excluding any land or interest therein to which the Government's lien is not to attach or the production from which is not to be subject to the Government's percentage royalty.
[4] Strike out the provision not applicable.
[5] Name of mineral or minerals.

Estimated Cost of Project

(* indicates allowable in a recession)

Exploration Project contract
L. W. Whitney
Elko County, Nevada
Docket No. OMER 2554

Exhibit "A"

Description of the work

The purpose of this work is to explore for copper the mining claims referred to in Details 2 of the contract.

This work is to be done in two Phases and consists of the following.

Phase I repair and condition No. 1

a. Clean out the Bryson shaft ~~to be~~ (approximately 120 feet deep)

b. From the bottom of the shaft drive a drift along the vein 50 feet eastward and 50 feet westerly

c. From the west drift drive a crosscut 50 feet to explore for ore in the walls of the vein.

Phase 2 repair and condition No 3

a. Clean out the Hecla shaft (approximately 80 feet deep) to do the work listed below.

b. From the bottom of the shaft drive a drift along the vein 100 feet easterly and 50 feet westerly.

c. In the most favorable ground, to be determined from the above drift drive a raise 25 feet along the vein.

As requested by the Government the general workings and of exposures are to be mapped, sampled, and the samples analyzed by laboratories approved by the Government.

All drifts, crosscuts and raises are to be timbered with approximately 5 x 7 in cross section. Shaft locations are shown on map attached "Fig 2. Geological Sketch Map of Bryson Claim Porter Mining District, Elko County, Nevada" (over)

The location and extent of the work to be done in Phase I. C. and Phase II. C. are to have the prior approval of the Government

FILE COPY
SURNAME:

500

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

Selfridge
Griswold

JUL 1 1953

Mr. L. W. Whitney
Meadows, Idaho

Re: Docket No. DMEA-2554 (Copper)
Arizona Mining Claims
Porter Mining District
Elko County, Nevada

Dear Mr. Whitney:

Mr. H. C. Miller, Executive Officer, DMEA Field Team, Region III, San Francisco, California, has sent us a copy of your letter of June 14, 1953, which was in answer to his letter of June 10 to you.

We have carefully reviewed your application, the Field Team report, and all related correspondence that has been added to the docket since filing your application. Seemingly, action on the application has reached an impasse because available information does not justify the Administration to participate in the driving of a 1500 foot adit to explore the so-called "Checkmate vein." On the other hand, you are not interested in the examining team's suggested program of following the ore from the bottoms of the Arizona and Hanks shafts after their rehabilitation.

As it is extremely unlikely that an agreement can be reached regarding the type of exploration work that should be done on your property, we are placing your application in the inactive file.

We regret the necessity of this action but are not in a position to do otherwise. However, we wish to thank you for the interest you have shown in the Defense Minerals Program.

Sincerely yours,

C. O. Mittendorf

Administrator

WRGriswold/GCSelfridge/bjl/esf
7/1/53
Copy to: Docket
Admr. R. File
Op. Committee
Base Metals
Mr. Kinkel
Mr. Bishop
Region III (2)
Chron.

Rotherham

R.C.G. 7/1/53

FILE COPY
500 SURNAME:

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

Original McKnight for Kinkel Wadsworth Selfridge

Mr. L. W. Whitney
Meadows, Idaho

Re: Docket No. DMEA-2554 (Copper),
Arizona Mining Claims,
Porter Mining District,
Elko County, Nevada

Dear Mr. Whitney:

Mr. H. C. Miller, Executive Officer, DMEA Field Team, Region III, San Francisco, California, has forwarded a copy of your letter to him, dated June 14, 1953 to this office.

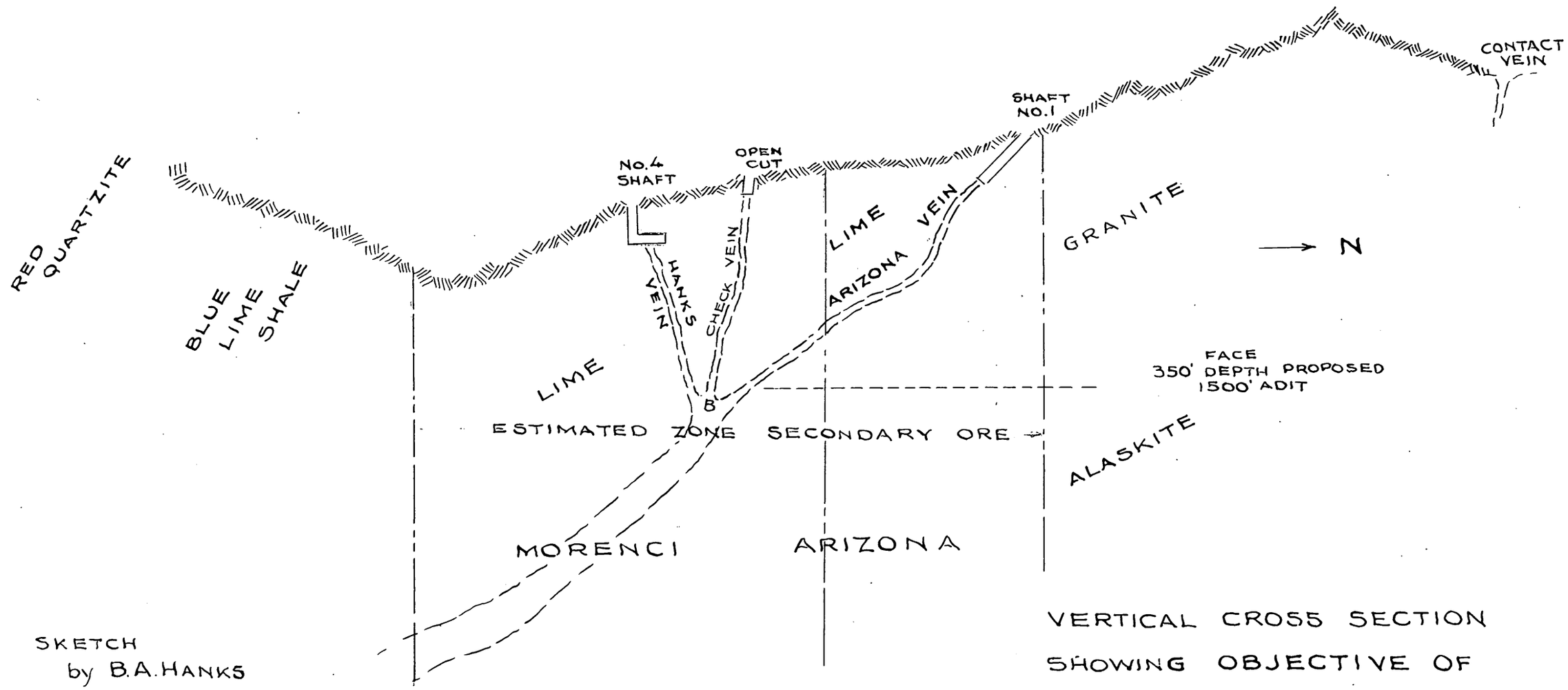
In that your letter constitutes a refusal to accept the Government approved exploration project, your application for Government assistance is being placed in the inactive files.

Sincerely yours,

Administrator

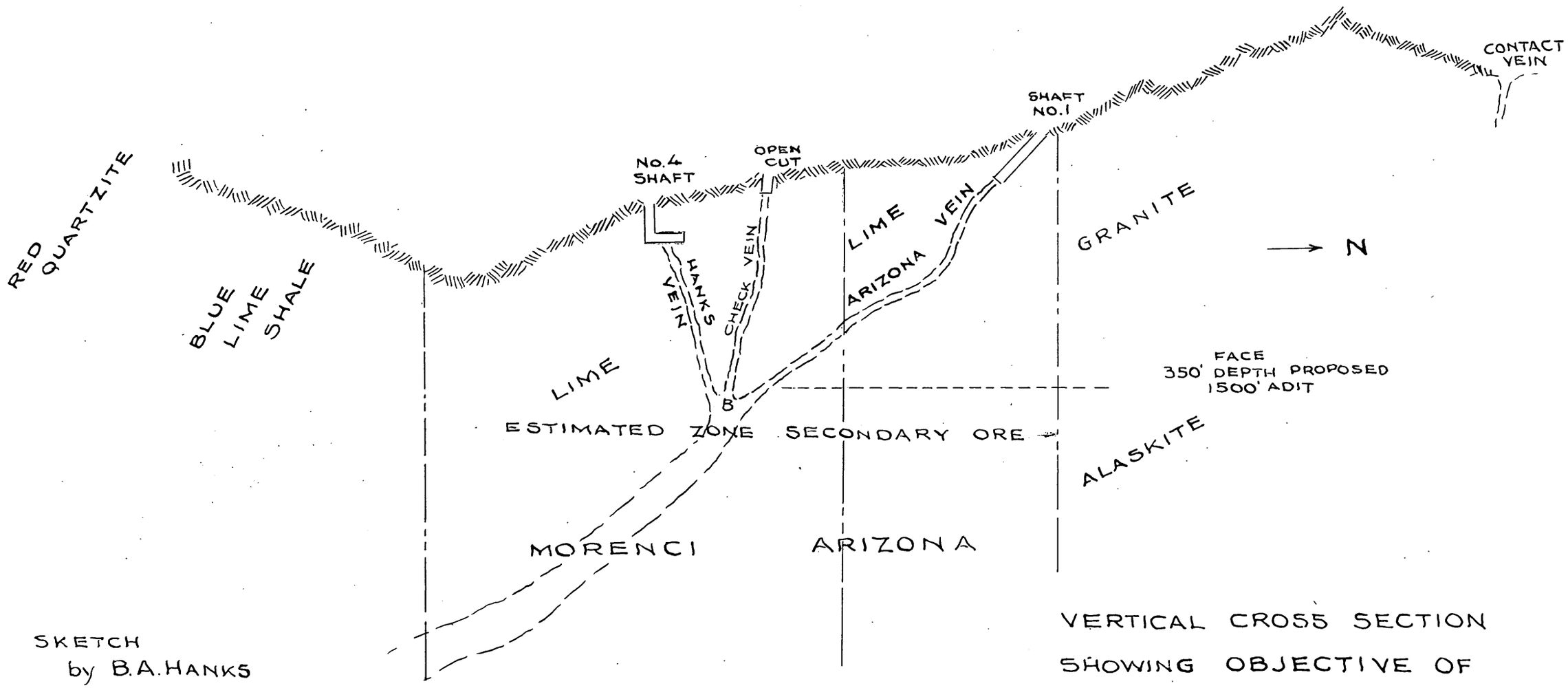
WRgriswold/bjl (6/26/53)

Copy to: Docket
Admr. R. File
Op. Committee
Base Metals
Mr. Kinkel
Mr. Bishop
Region III (2)
Chron.



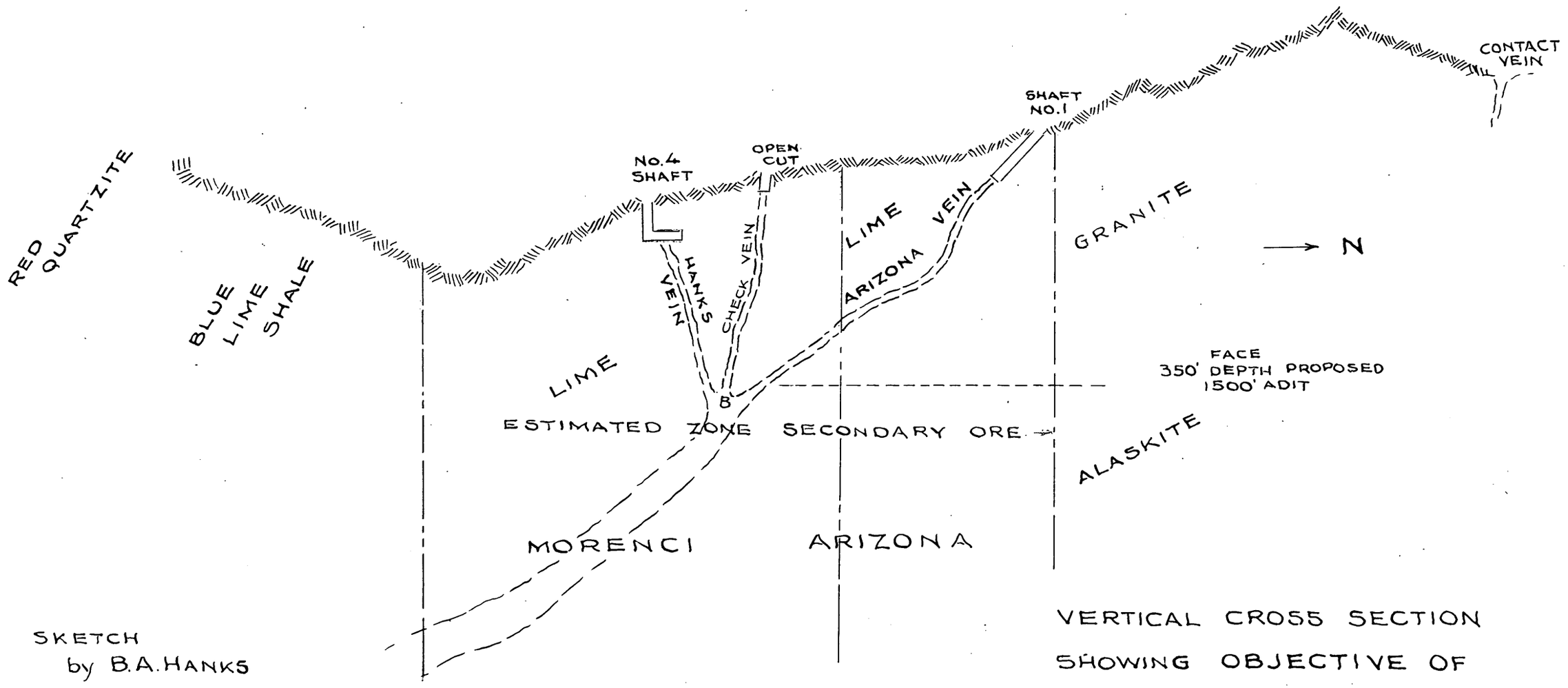
SKETCH
by B.A. HANKS

VERTICAL CROSS SECTION
SHOWING OBJECTIVE OF
PROPOSED DEVELOPMENT
SCALE 1 INCH = 200'



SKETCH
by B.A. HANKS

VERTICAL CROSS SECTION
SHOWING OBJECTIVE OF
PROPOSED DEVELOPMENT
SCALE 1 INCH = 200'



SKETCH
by B.A. HANKS

VERTICAL CROSS SECTION
SHOWING OBJECTIVE OF
PROPOSED DEVELOPMENT
SCALE 1 INCH = 200'

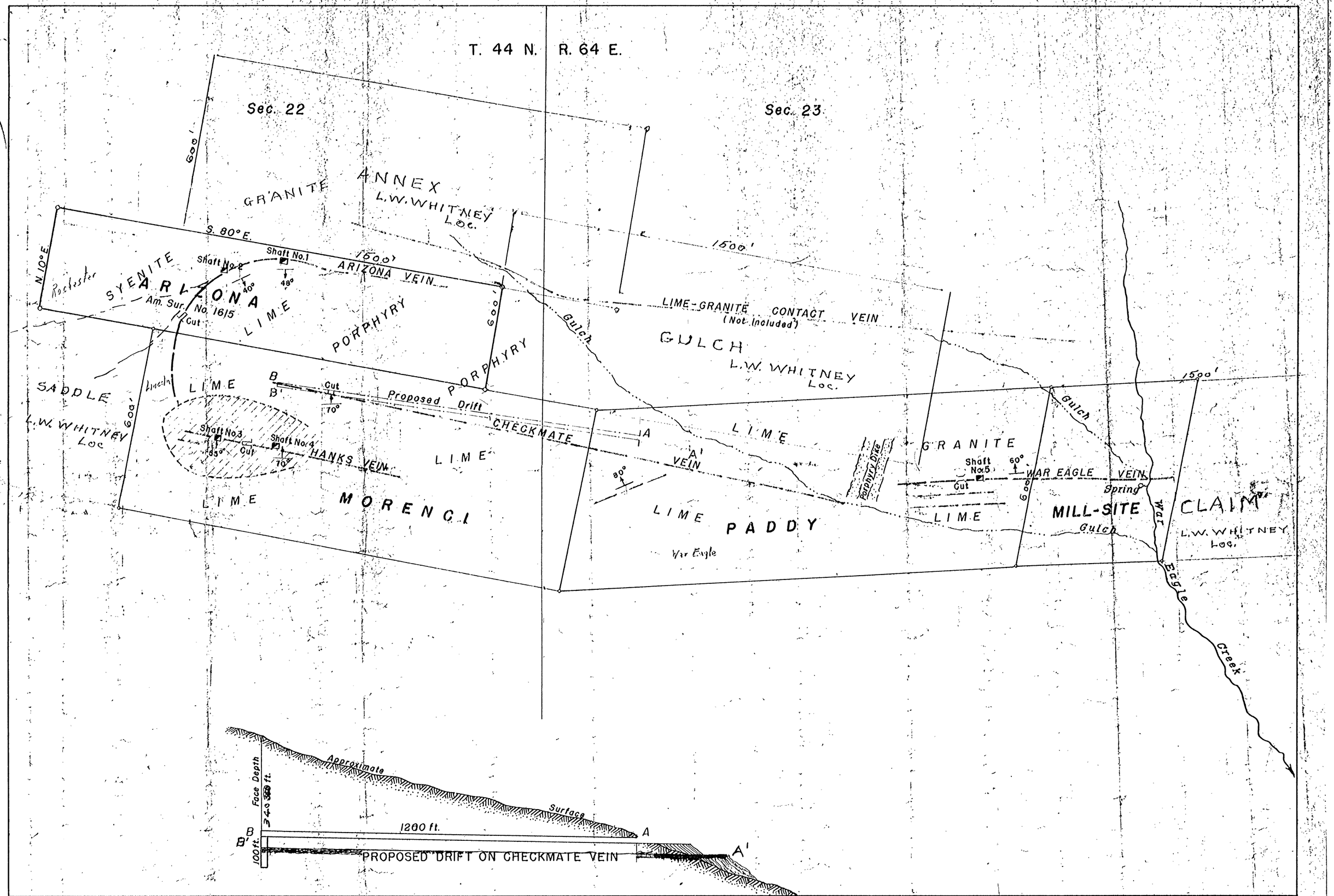
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1012 Flood Building
870 Market Street
San Francisco 2, Calif.
OFFICIAL BUSINESS

(PMGC)

SAN FRANCISCO
MAY 23
6 30PM
1952
CALIF.

Defense Minerals Exploration Administration
Interior Building
Washington 25, D. C.

FIRST CLASS



[redacted]

ARIZONA MINING CLAIMS

PORTER MINING DISTRICT

ELKO COUNTY, NEVADA

PLAT *of Arizona Mining Claims*

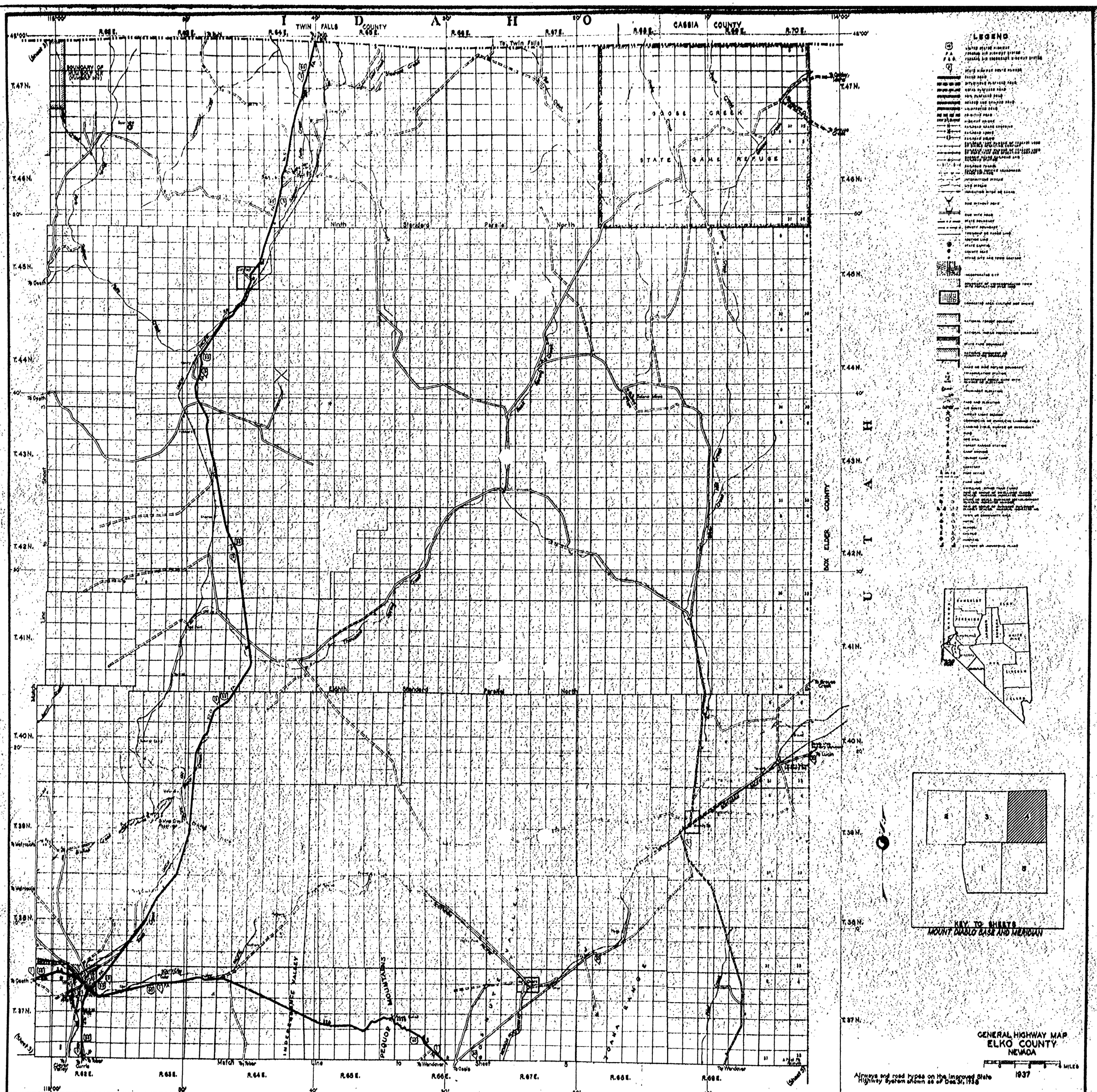
PORTER MINING DISTRICT

Elko County, Nevada

Drawn by B. A. HANKS, [redacted], Nev.

SCALE: 1 INCH = 200 FEET

4277


IDAHO
TWIN FALLS COUNTY
CASSIA COUNTY
BOX ELDER COUNTY
UTAH
GOOSE CREEK
STATE GAME REFUGE
INDEPENDENCE VALLEY
PEQUOP MOUNTAINS
LEGEND
KEY TO SHEETS
MOUNT. DIABLO BASE AND MERIDIAN
GENERAL HIGHWAY MAP
ELKO COUNTY
NEVADA
1937
Airways and road types on the Improved State Highway System shown as of Dec. 31, 1936
Modified Lambert Conformal Conic Projection
Base Map Approved Sept. 27, 1939.
Highway Map Approved Feb. 28, 1940
Sheet 4 of 5