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DMA Docket No. 3506

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File Copy
Surname
J. W. Alt
Kiilsgaard
Hodges
Selfridge
Johnson

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

FEB 11 1955

Mr. James J. Pattie, Vice President
Umberci Mines Incorporated
1921 Hollywood Way
Burbank, California

Re: Docket No. DMEA-3506 (Lead-Zinc)
Umberci Mines Inc.
Carbonate King Mine
San Bernardino County, California

Dear Mr. Pattie:

Your application for aid for an exploration project and other reports available to us in Washington concerning your application have been reviewed.

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

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

As requested, we are returning your personal file concerning the application.

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

Sincerely yours,

C. O. Mittendorf

Administrator

JWAlt/er 2/9/55
Copy to: Docket
Region II (2)
Admr R. File
Op. Committee
Base Metals
Mr. Bishop, USBM
Mr. Kiilsgaard, USGS
Chron.

Enclosure

R.C.J.

UNITED STATES
DEPARTMENT OF THE INTERIOR 500
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

February 9, 1955

Memorandum

To: The Administrator

From: Chief, Base Metals Division

Subject: Denial of Application, Docket No. DMEA-3506, Umberci Mines Incorporated, Carbonate King Mine, San Bernardino County, California (Lead-Zinc)

The cited application dated September 20, 1954, was submitted to this Division on September 28, 1954. On October 25, 1954, the application was referred to H. C. Miller, Executive Officer, Region II, for a field examination.

The Applicants proposed an exploration program consisting of 580 feet of drifting and raising, 180 feet of drilling, sampling of the dumps, road improvement work, and metallurgical tests. The cost of the program is estimated at about $9,735.00.

An examination of the property was made by the Field Team on November 19 and 20, 1954, and their report was reviewed by the Operating Committee on January 31, 1955.

The property is developed by approximately 3,000 feet of underground workings which include five adits with connecting raises. Two relatively small ore bodies have been found on the property; however, both of these ore bodies have been depleted.

The Field Team states: "The Umberci Mine (Carbonate King Mine) has produced a small tonnage of lead and zinc ore. Most of this ore was mined from a single ore body that crops out at the north end of the mine. About 2,000 feet of underground exploratory work did not discover other minable ore bodies. It appears that the ore body from which most of the ore was produced was an isolated body near the top of the Bird Springs formation and the probability of discovering other similar bodies with the proposed exploration is poor".

We concur with the recommendations of the Field Team and the Commodity members of the USBM and the USGS that this application be denied.

W. R. Griswold

File Copy
Surname
J.W.Alt

UNITED STATES
DEPARTMENT OF THE INTERIOR 500
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

February 9, 1955

Memorandum

To: The Administrator

From: Chief, Base Metals Division

Subject: Denial of Application, Docket No. DMEA-3506, Umberci Mines Incorporated, Carbonate King Mine, San Bernardino County, California (Lead-Zinc)

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We concur with the recommendations of the Field Team and the Commodity members of the USBM and the USGS that this application be denied.

W. R. Griswold

W. R. Griswold

JWAlt/er
Copy to: Docket
Base Metals
Chron.

IN REPLY REFER TO:

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 8 1955

February 7, 1955

Re: DMEA-3506
Umberci Mines, Inc.
Carbonate King Mine
San Bernardino Co.,
Calif.
Lead & Zinc
$9,735

Memorandum

To: W. R. Griswold, Defense Minerals Exploration Administration

From: R. D. Trace, U. S. Geological Survey

Subject: Review of Field Team examination report

In view of the poor record of previous exploration and the weak geologic possibility of finding additional ore, I concur with the Field Team and recommend denial.

RDTrace
R. D. Trace

IN REPLY REFER TO:

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 8 1955

February 7, 1955

Re: DMEA-3506
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San Bernardino Co.,
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Memorandum

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From: R. D. Trace, U. S. Geological Survey

Subject: Review of Field Team examination report

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R. D. Trace

RDTrace:hlm
G-2/7/55

Copy to: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
O. M. Bishop, 3617 Interior

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB - 2 1955

February 2, 1955

Memorandum

To: W. R. Griswold
Chief, Base Metals Division, DMEA

From: J. H. Hedges, Bureau of Mines

Subject: DMEA-3506, (Lead-Zinc) Umberci Mines Incorporated, Carbonate King Mine, San Bernardino County, Calif.

The applicant proposes 580 feet of drifting and raising, 180 feet of drilling, sampling of dumps, road improvement and metallurgical tests. The intent apparently is to probe for small, scattered replacement deposits in limestone such as have yielded the past production of the mine, estimated to be not over 2000 tons. No definite targets are indicated by the applicant. Although some additional small pods of ore might be found it is very unlikely that the results would be commensurate with the cost.

Recommendation

Follow the recommendation of the field team that the application be denied.

J. H. Hedges
J. H. Hedges

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 28 1955

420 Custom House
555 Battery Street
San Francisco 11, Calif.

January 24, 1955

Memorandum

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

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3506 (Lead-Zinc)
Umberci Mines Inc.
Carbonate King Mine
San Bernardino County, California

Reference is made to your letter of October 25, 1954, in which you requested a field examination of the subject property.

Attached are four copies of the requested report submitted by B. H. Sheahan, Mining Engineer, U. S. Bureau of Mines, and Harold K. Stager, Geologist, U. S. Geological Survey, in which it is recommended that the application for DMEA exploration aid be denied.

The ore occurs in small pod-like replacement deposits in dolomitic limestone. Total recorded production is about 700 tons of ore that contained from 10 to 20 per cent lead, a few per cent zinc, and minor amounts of silver and copper. The workings aggregate approximately 3000 feet. There are no geological indications that would justify the expectation of discovering additional ore bodies of economic importance.

Mr. Roscoe Smith and I agree with the recommendation in the report that the application for DMEA aid be denied.

S. Ricker
Executive Officer
DMEA Field Team, Region II

Attachment

Reviewed by
DMEA OPERATING COMMITTEE
1-31-55
(date)

Copy to: Roscoe Smith, USGS

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 28 1955

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION II

DMEA-3506, Umberci Mines Incorporated

(Formerly Carbonate King Mine)

San Bernardino County, California

(Lead-zinc)

Benjamin H. Sheahan, Mining Engineer
U. S. Bureau of Mines

Harold K. Stager, Geologist
U. S. Geological Survey

January 18, 1955

Reviewed by
DMEA OPERATING COMMITTEE
1-31-55
(date)

EXAMINATION REPORT

Docket No.: DMEA-3506 (Lead-zinc)

Name and address of applicant: Umberci Mines Incorporated
Mr. James J. Pattie, Vice Pres.,
1921 Hollywood Way,
Burbank, Calif.

Name and location of property: Umberci Mines Inc.,
(Formerly Carbonate King Mine)
San Bernardino County, Calif.

SUMMARY

The Umberci Mines Incorporated property (formerly known as the Carbonate King Mine) is located 9 miles northwest of Clark Mountain in San Bernardino County, Calif.

The mine was examined by an engineer of the Bureau of Mines accompanied by the applicants for a DMEA loan on November 19 and 20, 1954, and was examined by a geologist of the Geological Survey on January 6, 1955.

Lead-zinc ore was discovered at the property some time prior to 1906. The ore bodies occurred in a pod and along fissures in limestone. Production amounted to less than 2,000 tons and main ore bodies were depleted. The deposit is a replacement of dolomitic limestone by lead and zinc minerals. There are no ore reserves.

Mine workings include five adit tunnels with connecting raises with a total footage amounting to approximately 3,000 feet (see fig. 2).

The applicants for a DMEA loan lacked a definite objective and the work that they proposed was not entirely exploration. The present operators lack mining experience. A skilled miner might earn less than wages by mining what ore remains along the edges of the old stopes.

CONCLUSIONS AND RECOMMENDATIONS

The Umberci Mine (Carbonate King Mine) has produced a small tonnage of lead and zinc ore. Most of this ore was mined from a single ore body that crops out at the north end of the mine. About 2,000 feet of underground exploratory work did not discover other minable ore bodies. It appears that the ore body from which most of the ore was produced was an isolated body near the top of the Bird Springs formation and the probability of discovering other similar bodies with the proposed exploration is poor.

It is recommended that Government assistance under the DMEA program be denied.

TIME SPENT ON PROPERTY

The property was examined on November 19 and 20, 1954 by an engineer of the Bureau of Mines accompanied by Mr. James J. Pattie and Claude H. Parsons, director of the corporation.

The geology of the property and the DMEA application were discussed with Mr. H. K. Stager, geologist of the Geological Survey, who later visited the property on January 6, 1955.

NAME AND LOCATION OF PROPERTY

The Umberci Mines Incorporated property includes six unpatented lode mining claims which extend over the area formerly known as the Carbonate King Mine which is located in section 5, T. 18 N., R. 14 E., S.B.B.&M., San Bernardino County, Calif. This property is situated 9 miles northeast of Clark Mountain along the southwest side of a range connecting the Ivanpah and Spring Mountains, and should not be confused with the Carbonate King Zinc Mine at Koko Weef Mountain, San Bernardino County, Calif.

The property is 50 miles by road southwest of Las Vegas, Nevada in what could be considered as the southern extension of the Yellow Pine Mining District of Clark County, Nevada (see fig. 1).

ACCESSIBILITY

The property can be reached from Jean, Nev., by following U.S. Highway 91 south 13 miles, turn right and follow an old paved highway westerly 0.4 mile to the Los Angeles Bureau of Power & Light transmission line road, turn left and follow the power line road 5.4 miles westerly, turn right and follow a narrow winding dirt road 1.2 miles northwesterly to the Umberci Mine camp. The mine is reached by following a steep dirt road 1/2-mile northerly from the camp. The property is accessible by automobile all year.

COMPETENCY OF THE APPLICANT

The directors of the company lacked mining experience. Mr. James J. Pattie operates a small electric applicance business at Burbank, Calif. He has had some experience on construction work and tunnel projects. Mr. Claude H. Parsons operates a dry cleaning business at Los Angeles, Calif., and is interested in prospecting. Mr. R. W. Westfall was not interviewed, but judging from the appearance of a 102-foot incline shaft, recently sunk and which he supervised, he probably has some mining experience.

The financial responsibility of the applicant was fair. According to Mr. Pattie and Mr. Parsons, the company raised $16,000 from the sale of shares of Umberci Mines, Inc. stock in Nevada. This money was reportedly used to sink the 102 foot shaft and for sinking a 50-foot winze from the lower tunnel level. The directors of the company were of the opinion that Government assistance with exploration work would encourage further venture capital to invest in the Umberci Mine Incorporated stock.

APPLICANTS PROPERTY RIGHTS

According to the applicants, the property was originally owned by Mr. W. F. DeWitt and son, O. B. DeWitt. The property includes seven unpatented lode mining claims, known as the Umberci, Umberci No. 2, No. 3, No. 4, No. 5, Hazel O and Hazel No. 1. Practically all

of the mine workings are located on the Umberci claim (formerly the Carbonate King). The property was relocated by Mr. R. W. Westfall on July 1, 1952. On Sept. 8, 1952, the applicants acquired the Hazel O and Hazel No. 1 claims through company stock transfer with the owner, Mrs. Hazel DeWitt. There were reported to be 28 persons owning stock in Umberci Mines Incorporated.

DESCRIPTION OF PROPERTY

Surface and surface facilities:

The camp includes two stone cabins suitable for the accommodation of six workmen.

The surface facilities include a 20-ton capacity ore bin, one platform 8 feet by 16 feet for unloading water and oil barrels, and one 16-foot headframe.

EQUIPMENT

Equipment owned by the company is as follows:

1	Air compressor, portable, 100 c.f.m.	(Poor condition)
2	Tugger hoists, air operated	(Fair ")
3	Rock drills, stoper, 2 jackhammers	(Good ")
2	Air receiver tanks, 10 cu. ft. cap.	(Good ")
2	Water tanks, 300 gal. cap.	(Fair ")
2	Mine cars, 16 cu. ft.	(Fair ")
1	Truck, 4-wheel drive, 1/2-ton	(Poor ")
1	Approx. 1,000 feet of air & water pipe, sizes 3/4-inch to 1-1/2 inch	(Fair ")
1	Approx. 1,000 feet of mine track, 12-pound per yard rail	(Fair ")
	Miscellaneous small tools & equipment	(Fair ")

MINE WORKINGS

The property is developed by approximately 3,000 feet of underground workings which include five adits with connecting raises. Two relatively small ore bodies have been found on the property, however, both of these ore bodies have been depleted.

Recent operations conducted by the applicants for DMEA assistance have included the sinking of a 102-foot incline shaft from the surface to explore a zone in limestone approximately 1,000 feet southwest of the main outcrop. A 50-foot winze was sunk from the lower adit on the main fissure, but no ore was found. Mining operations were conducted from a stope between No. 4 and No. 5 adits in 1953; and 22-1/2 tons of ore was produced which averaged 17.1% Pb, 9.7% Zn, and 0.4 ounces Ag per ton.

Most of the mine workings have required very little timber for ground support. The stoped area at the outcrop glory hole is mostly caved, and many of the raises are now unsafe to enter. (Fig. 2) The applicants were not familiar with all of the underground workings.

SAMPLING

The following samples were taken from the property and analized by the Bureau of Mines:

Sample No.	%, Pb	%, Zn	Oz. Au/T	Oz. Ag/T	Description
S-318	14.9	2.6	Trace	0.10	2-foot cut pillar
S-319	3.0	4.8	"	Trace	Tunnel No. 1 - dump sample
S-320	31.8	17.0	"	0.20	Select specimens
S-321	0.7	0.4	"	Trace	2 foot cut No. 5 level
S-322	0.2	0.9	"	"	0.5 foot cut No. 5 level
S-323	0.3	15.6	"	"	0.5 foot cut No. 5 level
S-324	0.2	0.4	"	"	5-foot cut shaft

Sample locations are indicated on figure 2.

GEOLOGY

The ore deposit at the Carbonate King (DeWitts) mine is localized along a fracture in dolomitic limestone of the Bird Springs formation of Carboniferous age. The geology and ore deposits of this district have been described in detail by Hewitt 1/.

The principal rock underlying the Carbonate King property is a dark gray, fine-grained, thin-bedded, dolomitic limestone that strikes N. 45° W. and dips 35° to 45° SW. The mine is in rocks several hundred feet below the top of the Bird Springs formation which are normally limestone at this horizon but have been thoroughly dolomitized in this region.

The region is one of structural complexity and is cut by numerous faults and fractures. A north trending fracture on the Umberci claim served as the conduit through which the metal-bearing solutions entered the host rock. A major fault several hundred feet north of the ore deposit cuts off both the fracture and the limestone beds.

1/ Hewitt, D. F., 1955, Geology and Ore Deposits of the Ivanpah Quadrangle, California and Nevada: Report in preparation, U.S. Geological Survey.

ORE DEPOSITS

The deposit at the Carbonate King mine is a replacement of dolomitic limestone by lead and zinc minerals. The ore minerals are argentiferous galena and sphalerite in the lower workings and anglesite, hard granular cerussite, calamine, and hydrozincite in the upper workings. Gangue minerals are pyrite, limonite, jarositic chert, and calcite.

Most of the ore has been found along a fracture that strikes N. 10° E. and dips 80° to 85° E. The ore minerals have partially replaced the limestone along favorable beds for as much as 25 feet each side of the fracture. Most of the ore was taken from a body about 100 feet long, 3 to 4 feet thick and 20 to 40 feet high that cropped out at the north end of the deposit. Extensive underground exploration by about 2,000 feet of interconnecting drifts, crosscuts, and raises south of the mine at lower levels along the fracture and in the favorable limestone host beds has not discovered other minable bodies of ore. Both the fracture and the host beds are cut off several hundred feet north of the mine by a fault that trends N. 75° E.

It has been pointed out by Hewitt that the deposit lies higher in the stratigraphic section than any other deposit in the region. It appears that the body that has yielded the major part of the ore is an isolated occurrence and the probability of discovering other similar bodies with the proposed exploration is poor.

Total recorded production from this property is about 700 tons of ore that contained from 10 to 20 percent lead, a few percent of zinc, and a little copper and silver. Most of this ore was mined from the open cut on the body that crops out at the north end of the deposit.

ORE RESERVES

Except for a few tons of ore left in pillars and in lenses too thin or low in grade to mine, there are no ore reserves exposed or indicated at the Carbonate King mine.

PAST OPERATIONS

The property (Carbonate King mine) was located by Mr. W. F. DeWitt in 1910, as indicated by an old location notice found on the claim. Lead-zinc ore was reported to have been mined from the Glory Hole area in 1906, following the completion of the San Pedro, Los Angeles, and Salt Lake Railroad. The early regional history is well described by the U. S. Geological Survey, Professional Paper 162, Geology and Ore Deposits of the Goodsprings Quadrangle, Nevada by Dr. D. F. Hewett. The Carbonate King Mine is also described in vol. 26, July 1930, No. 3, p. 274, Report XXVI of the California State Mineralogist.

The examining engineer is of the opinion that approximately 2,000 tons of oxidized lead-zinc ore has been produced from the property judging from the size and appearance of the stoped area and mine workings.

Production was probably stimulated by high metal prices during the periods 1915 to 1918 and 1924 to 1928. A few shipments of ore have been made intermittently by leasers. Raise connections driven from the tunnels into ore and waste dumps indicates that an unsuccessful attempt might have been made to ship lead-zinc ore to a Government stockpile purchaser at Jean, Nev.

An old concentrating plant constructed at the property during the 1920's has long been dismantled and only the concrete foundations remain.

LABOR AND SUPPLIES

The prevailing wage scale for miners in the district is approximately $2.00 an hour. Workmen skilled with the operations of a lead-zinc mine in this region are scarce.

Supplies can be obtained at Las Vegas, Nevada or Baker, Calif. Roach, Nevada, located 10 miles by road northeast of the property is the nearest shipping point.

Water for both domestic use and use at the mine is hauled to the property from a spring located 8 miles south of the property on the east slope of Clark Mountain.

Electric power is not available. The operators haul gasoline to the property for power generation.

APPLICANTS PROPOSAL

The applicants have proposed an exploration program consisting of 580 feet of drifting and raising, 180 feet of drilling, sampling of the dumps, road improvement work and metallurgical tests. Total cost of the program is estimated at about $9,735. Most of this work is aimed at the discovery of ore between existing levels in ground that has already been quite thoroughly explored by over 2,000 feet of drifts and raises. Further exploration of this type is not likely to yield more than additional scattered exposures of the sparsely mineralized material now visible in the existing workings. It is possible that a drilling program to explore the intersection of the mineralized fracture with other favorable host beds at depth would result in the discovery of additional bodies similar to that already mined. However, the cost of drilling to the depths required by such a program would probably exceed the value of the ore to be discovered.

The applicants stated that the new 102-foot incline shaft was sunk to prospect an anomoly indicated by a geophysical survey.

The engineer informed the applicants that the work which they had proposed lacked an objective.

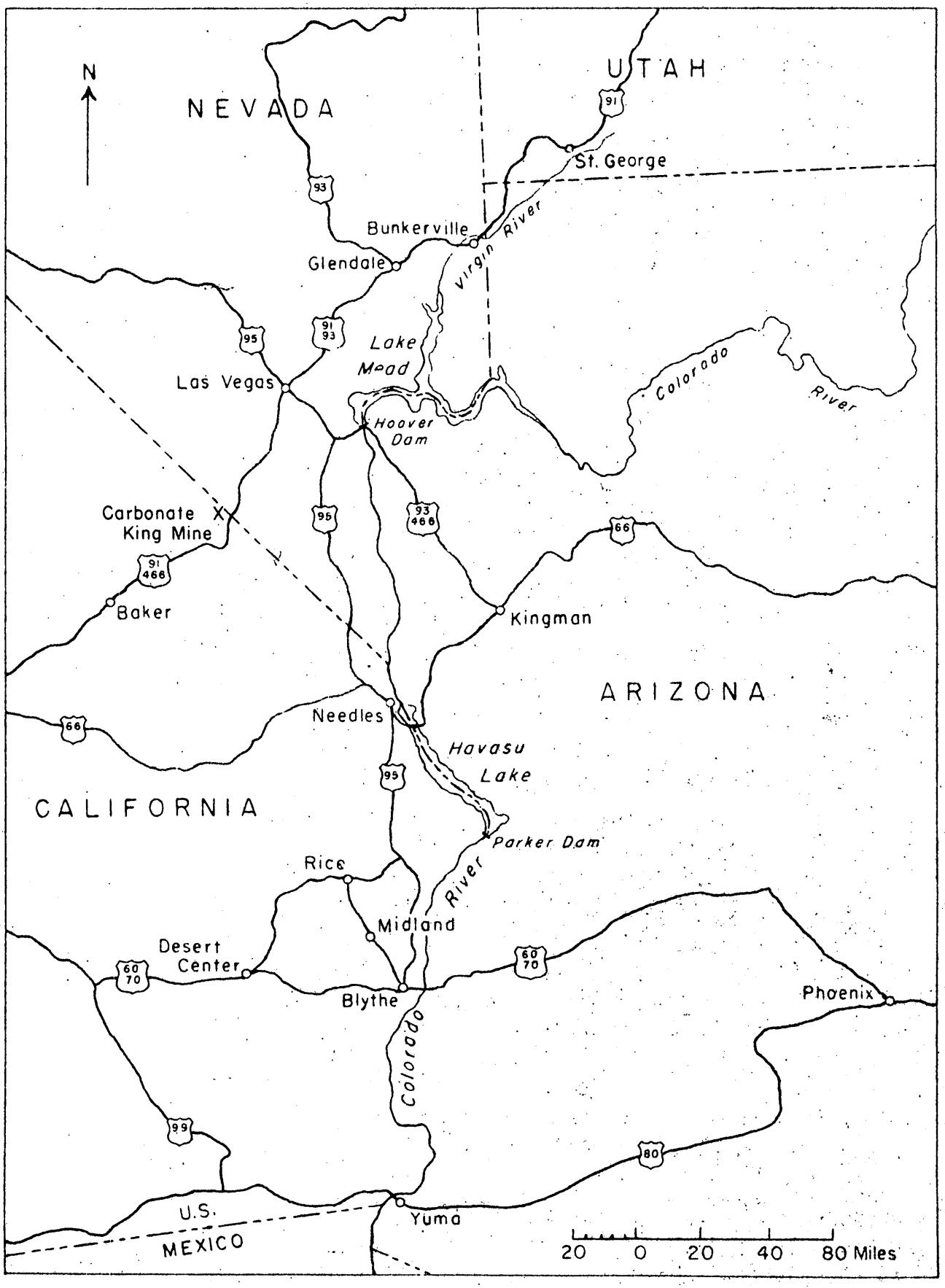
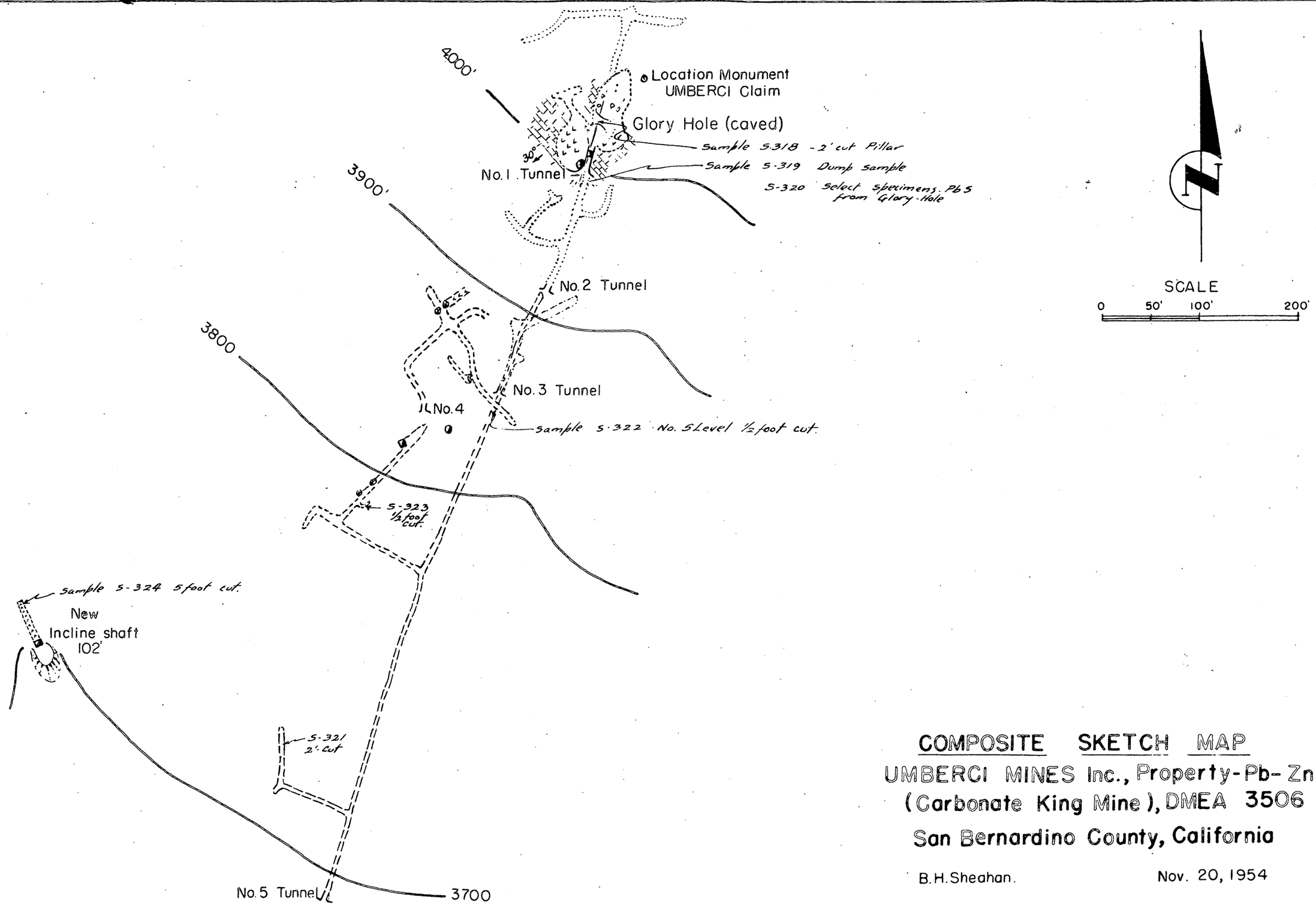


Figure I. Index map showing location of the Carbonate King Mine, San Bernardino County, California.



COMPOSITE SKETCH MAP

UMBERCI MINES Inc., Property-Pb-Zn

(Carbonate King Mine), DMEA 3506

San Bernardino County, California

B.H. Sheahan. Nov. 20, 1954

Figure 2

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 28 1955

420 Custom House
555 Battery Street
San Francisco 11, Calif.

January 24, 1955

Memorandum

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

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3506 (Lead-Zinc)
Umberci Mines Inc.
Carbonate King Mine
San Bernardino County, California

Reference is made to your letter of October 25, 1954, in which you requested a field examination of the subject property.

Attached are four copies of the requested report submitted by B. H. Sheahan, Mining Engineer, U. S. Bureau of Mines, and Harold K. Stager, Geologist, U. S. Geological Survey, in which it is recommended that the application for DMEA exploration aid be denied.

The ore occurs in small pod-like replacement deposits in dolomitic limestone. Total recorded production is about 700 tons of ore that contained from 10 to 20 per cent lead, a few per cent zinc, and minor amounts of silver and copper. The workings aggregate approximately 3000 feet. There are no geological indications that would justify the expectation of discovering additional ore bodies of economic importance.

Mr. Roscoe Smith and I agree with the recommendation in the report that the application for DMEA aid be denied.

S. RICKER

S. Ricker
Executive Officer
DMEA Field Team, Region II

Attachment

Copy to: Roscoe Smith, USGS

Defense Minerals Administration
RECEIVED
JAN 28 1955

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION II

DMEA-3506, Umberci Mines Incorporated

(Formerly Carbonate King Mine)

San Bernardino County, California

(Lead-zinc)

Benjamin H. Sheahan, Mining Engineer
U. S. Bureau of Mines

Harold K. Stager, Geologist
U. S. Geological Survey

January 18, 1955

EXAMINATION REPORT

Docket No.: DMEA-3506 (Lead-zinc)

Name and address of applicant: Umberci Mines Incorporated
Mr. James J. Pattie, Vice Pres.,
1921 Hollywood Way,
Burbank, Calif.

Name and location of property: Umberci Mines Inc.,
(Formerly Carbonate King Mine)
San Bernardino County, Calif.

SUMMARY

The Umberci Mines Incorporated property (formerly known as the Carbonate King Mine) is located 9 miles northwest of Clark Mountain in San Bernardino County, Calif.

The mine was examined by an engineer of the Bureau of Mines accompanied by the applicants for a DMEA loan on November 19 and 20, 1954, and was examined by a geologist of the Geological Survey on January 6, 1955.

Lead-zinc ore was discovered at the property some time prior to 1906. The ore bodies occurred in a pod and along fissures in limestone. Production amounted to less than 2,000 tons and main ore bodies were depleted. The deposit is a replacement of dolomitic limestone by lead and zinc minerals. There are no ore reserves.

Mine workings include five adit tunnels with connecting raises with a total footage amounting to approximately 3,000 feet (see fig. 2).

The applicants for a DMEA loan lacked a definite objective and the work that they proposed was not entirely exploration. The present operators lack mining experience. A skilled miner might earn less than wages by mining what ore remains along the edges of the old stopes.

CONCLUSIONS AND RECOMMENDATIONS

The Umberci Mine (Carbonate King Mine) has produced a small tonnage of lead and zinc ore. Most of this ore was mined from a single ore body that crops out at the north end of the mine. About 2,000 feet of underground exploratory work did not discover other minable ore bodies. It appears that the ore body from which most of the ore was produced was an isolated body near the top of the Bird Springs formation and the probability of discovering other similar bodies with the proposed exploration is poor.

It is recommended that Government assistance under the DMEA program be denied.

TIME SPENT ON PROPERTY

The property was examined on November 19 and 20, 1954 by an engineer of the Bureau of Mines accompanied by Mr. James J. Pattie and Claude H. Parsons, director of the corporation.

The geology of the property and the DMEA application were discussed with Mr. H. K. Stager, geologist of the Geological Survey, who later visited the property on January 6, 1955.

NAME AND LOCATION OF PROPERTY

The Umberci Mines Incorporated property includes six unpatented lode mining claims which extend over the area formerly known as the Carbonate King Mine which is located in section 5, T. 18 N., R. 14 E., S.B.B.&M., San Bernardino County, Calif. This property is situated 9 miles northeast of Clark Mountain along the southwest side of a range connecting the Ivanpah and Spring Mountains, and should not be confused with the Carbonate King Zinc Mine at Keko Weef Mountain, San Bernardino County, Calif.

The property is 50 miles by road southwest of Las Vegas, Nevada in what could be considered as the southern extension of the Yellow Pine Mining District of Clark County, Nevada (see fig. 1).

ACCESSIBILITY

The property can be reached from Jean, Nev., by following U.S. Highway 91 south 13 miles, turn right and follow an old paved highway westerly 0.4 mile to the Los Angeles Bureau of Power & Light transmission line road, turn left and follow the power line road 5.4 miles westerly, turn right and follow a narrow winding dirt road 1.2 miles northwesterly to the Umberci Mine camp. The mine is reached by following a steep dirt road 1/2-mile northerly from the camp. The property is accessible by automobile all year.

COMPETENCY OF THE APPLICANT

The directors of the company lacked mining experience. Mr. James J. Pattie operates a small electric applicance business at Burbank, Calif. He has had some experience on construction work and tunnel projects. Mr. Claude H. Parsons operates a dry cleaning business at Los Angeles, Calif., and is interested in prospecting. Mr. R. W. Westfall was not interviewed, but judging from the appearance of a 102-foot incline shaft, recently sunk and which he supervised, he probably has some mining experience.

The financial responsibility of the applicant was fair. According to Mr. Pattie and Mr. Parsons, the company raised $16,000 from the sale of shares of Umberci Mines, Inc. stock in Nevada. This money was reportedly used to sink the 102 foot shaft and for sinking a 50-foot winze from the lower tunnel level. The directors of the company were of the opinion that Government assistance with exploration work would encourage further venture capital to invest in the Umberci Mine Incorporated stock.

APPLICANTS PROPERTY RIGHTS

According to the applicants, the property was originally owned by Mr. W. F. DeWitt and son, O. B. DeWitt. The property includes seven unpatented lode mining claims, known as the Umberci, Umberci No. 2, No. 3, No. 4, No. 5, Hazel O and Hazel No. 1. Practically all

of the mine workings are located on the Umberci claim (formerly the Carbonate King). The property was relocated by Mr. R. W. Westfall on July 1, 1952. On Sept. 8, 1952, the applicants acquired the Hazel O and Hazel No. 1 claims through company stock transfer with the owner, Mrs. Hazel DeWitt. There were reported to be 28 persons owning stock in Umberci Mines Incorporated.

DESCRIPTION OF PROPERTY

Surface and surface facilities:

The camp includes two stone cabins suitable for the accommodation of six workmen.

The surface facilities include a 20-ton capacity ore bin, one platform 8 feet by 16 feet for unloading water and oil barrels, and one 16-foot headframe.

EQUIPMENT

Equipment owned by the company is as follows:

1	Air compressor, portable, 100 c.f.m.	(Poor condition)
2	Tugger hoists, air operated	(Fair ")
3	Rock drills, stoper, 2 jackhammers	(Good ")
2	Air receiver tanks, 10 cu. ft. cap.	(Good ")
2	Water tanks, 300 gal. cap.	(Fair ")
2	Mine cars, 16 cu. ft.	(Fair ")
1	Truck, 4-wheel drive, 1/2-ton	(Poor ")
1	Approx. 1,000 feet of air & water pipe, sizes 3/4-inch to 1-1/2 inch	(Fair ")
1	Approx. 1,000 feet of mine track, 12-pound per yard rail	(Fair ")
	Miscellaneous small tools & equipment	(Fair ")

MINE WORKINGS

The property is developed by approximately 3,000 feet of underground workings which include five adits with connecting raises. Two relatively small ore bodies have been found on the property, however, both of these ore bodies have been depleted.

Recent operations conducted by the applicants for DMEA assistance have included the sinking of a 102-foot incline shaft from the surface to explore a zone in limestone approximately 1,000 feet southwest of the main outcrop. A 50-foot winze was sunk from the lower adit on the main fissure, but no ore was found. Mining operations were conducted from a stope between No. 4 and No. 5 adits in 1953; and 22-1/2 tons of ore was produced which averaged 17.1% Pb, 9.7% Zn, and 0.4 ounces Ag per ton.

Most of the mine workings have required very little timber for ground support. The stoped area at the outcrop glory hole is mostly caved, and many of the raises are now unsafe to enter. (Fig. 2) The applicants were not familiar with all of the underground workings.

SAMPLING

The following samples were taken from the property and analized by the Bureau of Mines:

Sample No.	%, Pb	%, Zn	Oz. Au/T	Oz. Ag/T	Description
S-318	14.9	2.6	Trace	0.10	2-foot cut pillar
S-319	3.0	4.8	"	Trace	Tunnel No. 1 - dump sample
S-320	31.8	17.0	"	0.20	Select specimens
S-321	0.7	0.4	"	Trace	2 foot cut No. 5 level
S-322	0.2	0.9	"	"	0.5 foot cut No. 5 level
S-323	0.3	15.6	"	"	0.5 foot cut No. 5 level
S-324	0.2	0.4	"	"	5-foot cut shaft

Sample locations are indicated on figure 2.

GEOLOGY

The ore deposit at the Carbonate King (DeWitts) mine is localized along a fracture in dolomitic limestone of the Bird Springs formation of Carboniferous age. The geology and ore deposits of this district have been described in detail by Hewitt[1/].

The principal rock underlying the Carbonate King property is a dark gray, fine-grained, thin-bedded, dolomitic limestone that strikes N. 45° W. and dips 35° to 45° SW. The mine is in rocks several hundred feet below the top of the Bird Springs formation which are normally limestone at this horizon but have been thoroughly dolomitized in this region.

The region is one of structural complexity and is cut by numerous faults and fractures. A north trending fracture on the Umberci claim served as the conduit through which the metal-bearing solutions entered the host rock. A major fault several hundred feet north of the ore deposit cuts off both the fracture and the limestone beds.

1/ Hewitt, D. F., 1955, Geology and Ore Deposits of the Ivanpah Quadrangle, California and Nevada: Report in preparation, U.S. Geological Survey.

ORE DEPOSITS

The deposit at the Carbonate King mine is a replacement of dolomitic limestone by lead and zinc minerals. The ore minerals are argentiferous galena and sphalerite in the lower workings and anglesite, hard granular cerussite, calamine, and hydrozincite in the upper workings. Gangue minerals are pyrite, limonite, jarositic chert, and calcite.

Most of the ore has been found along a fracture that strikes N. 10° E. and dips 80° to 85° E. The ore minerals have partially replaced the limestone along favorable beds for as much as 25 feet each side of the fracture. Most of the ore was taken from a body about 100 feet long, 3 to 4 feet thick and 20 to 40 feet high that cropped out at the north end of the deposit. Extensive underground exploration by about 2,000 feet of interconnecting drifts, crosscuts, and raises south of the mine at lower levels along the fracture and in the favorable limestone host beds has not discovered other minable bodies of ore. Both the fracture and the host beds are cut off several hundred feet north of the mine by a fault that trends N. 75° E.

It has been pointed out by Hewitt that the deposit lies higher in the stratigraphic section than any other deposit in the region. It appears that the body that has yielded the major part of the ore is an isolated occurrence and the probability of discovering other similar bodies with the proposed exploration is poor.

Total recorded production from this property is about 700 tons of ore that contained from 10 to 20 percent lead, a few percent of zinc, and a little copper and silver. Most of this ore was mined from the open cut on the body that crops out at the north end of the deposit.

ORE RESERVES

Except for a few tons of ore left in pillars and in lenses too thin or low in grade to mine, there are no ore reserves exposed or indicated at the Carbonate King mine.

PAST OPERATIONS

The property (Carbonate King mine) was located by Mr. W. F. DeWitt in 1910, as indicated by an old location notice found on the claim. Lead-zinc ore was reported to have been mined from the Glory Hole area in 1906, following the completion of the San Pedro, Los Angeles, and Salt Lake Railroad. The early regional history is well described by the U. S. Geological Survey, Professional Paper 162, Geology and Ore Deposits of the Goodsprings Quadrangle, Nevada by Dr. D. F. Hewett. The Carbonate King Mine is also described in vol. 26, July 1930, No. 3, p. 274, Report XXVI of the California State Mineralogist.

The examining engineer is of the opinion that approximately 2,000 tons of oxidized lead-zinc ore has been produced from the property judging from the size and appearance of the stoped area and mine workings.

Production was probably stimulated by high metal prices during the periods 1915 to 1918 and 1924 to 1928. A few shipments of ore have been made intermittently by leasers. Raise connections driven from the tunnels into ore and waste dumps indicates that an unsuccessful attempt might have been made to ship lead-zinc ore to a Government stockpile purchaser at Jean, Nev.

An old concentrating plant constructed at the property during the 1920's has long been dismantled and only the concrete foundations remain.

LABOR AND SUPPLIES

The prevailing wage scale for miners in the district is approximately $2.00 an hour. Workmen skilled with the operations of a lead-zinc mine in this region are scarce.

Supplies can be obtained at Las Vegas, Nevada or Baker, Calif. Reach, Nevada, located 10 miles by road northeast of the property is the nearest shipping point.

Water for both domestic use and use at the mine is hauled to the property from a spring located 8 miles south of the property on the east slope of Clark Mountain.

Electric power is not available. The operators haul gasoline to the property for power generation.

APPLICANTS PROPOSAL

The applicants have proposed an exploration program consisting of 580 feet of drifting and raising, 180 feet of drilling, sampling of the dumps, road improvement work and metallurgical tests. Total cost of the program is estimated at about $9,735. Most of this work is aimed at the discovery of ore between existing levels in ground that has already been quite thoroughly explored by over 2,000 feet of drifts and raises. Further exploration of this type is not likely to yield more than additional scattered exposures of the sparsely mineralized material now visible in the existing workings. It is possible that a drilling program to explore the intersection of the mineralized fracture with other favorable host beds at depth would result in the discovery of additional bodies similar to that already mined. However, the cost of drilling to the depths required by such a program would probably exceed the value of the ore to be discovered.

The applicants stated that the new 102-foot incline shaft was sunk to prospect an anomoly indicated by a geophysical survey.

The engineer informed the applicants that the work which they had proposed lacked an objective.

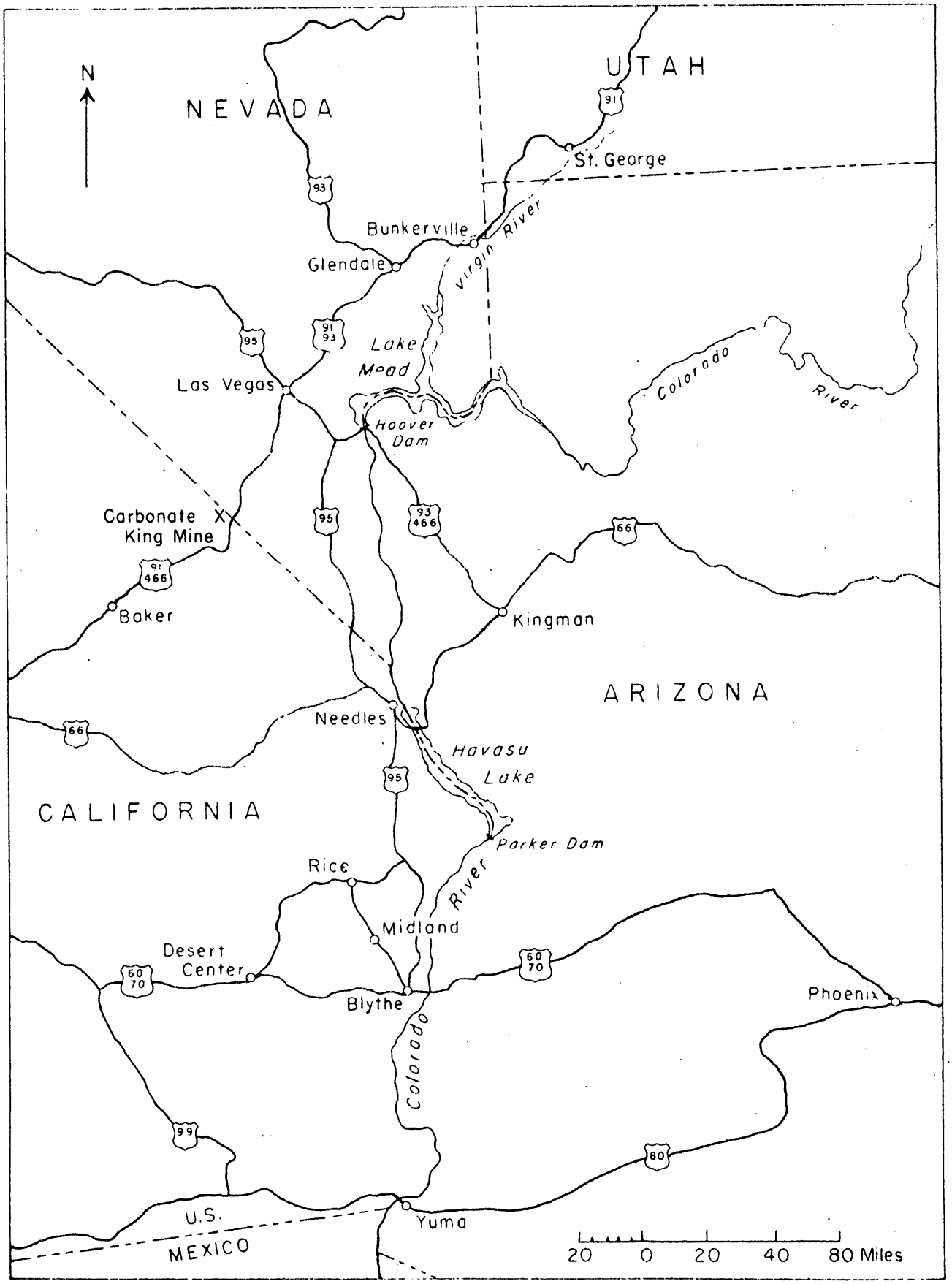
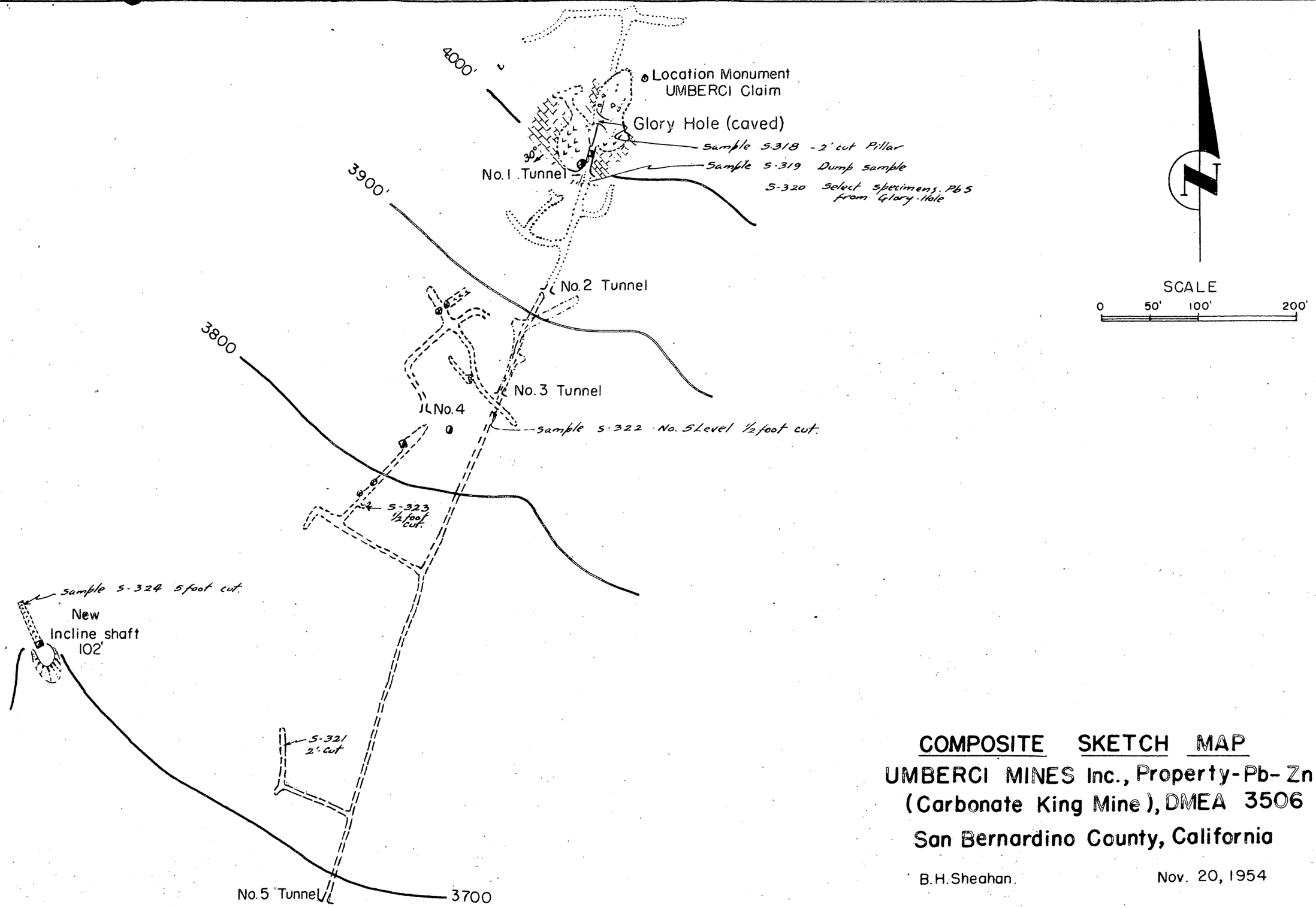


Figure 1. Index map showing location of the Carbonate King Mine, San Bernardino County, California.



COMPOSITE SKETCH MAP

UMBERCI MINES Inc., Property-Pb-Zn

(Carbonate King Mine), DMEA 3506

San Bernardino County, California

B.H. Sheahan. Nov. 20, 1954

Figure 2

File Copy
Surname

J. All
Selfridge
Fishman
Whittenberg

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

500

JAN 19 1955

Mr. Spangler Picker
Executive Officer
DMEA Field Team, Region II
420 Custom House
555 Battery Street
San Francisco 11, California

Re: Docket No. DMEA-3506 (Lead-Zinc)
Umberci Mines, Inc.
Carbonate King Mine
San Bernardino County, California

Dear Mr. Picker:

With reference to your memorandum of January 12, 1955, regarding the cited application, we do not think that it is necessary for us to replace your docket that was lost during the course of the examination of this property.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee (JHB)

APPROVED:

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

E. L. Newcomb (JHB)
Member, Geological Survey

JWAlt/bjl (1/18/55)

Copy to: Docket
Admr. R. File
Op. Committee
Base Metals
Mr. Bishop
Mr. Kink Kiilsgaard
Chron.

R.S.S.

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

RECEIVED
JAN 17 1955

420 Custom House
555 Battery Street
San Francisco 11, Calif.

January 12, 1955

Docket file

Memorandum

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

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3506 (Lead-Zinc)
Umberci Mines Inc.
Carbonate King Mine
San Bernardino County, California

Reference is made to the above-subject docket.

The property has been examined and the report, not yet completed, will recommend denial of application for exploration aid.

In the meantime, however, I wanted to advise you that the docket was lost during the course of the examination. We will not require a copy of the docket unless you believe it necessary that we have one in our files.

S. Ricker
Executive Officer
DMEA Field Team, Region II

Copy to: Roscoe Smith, USGS
A. C. Johnson, Reno

1/17/55 - Spoke to R. Coleman - Operations Control & Statistics Div. - he said it was not necessary to supply us a copy of this application, but was necessary to answer this memo.

File Copy
Surname

J.W. Alt
Gruswold
Hedges
Selfridge
Johnson

UNITED STATES
DEPARTMENT OF THE INTERIOR 500
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

OCT 2 6 1954

Mr. H. C. Miller, Executive Officer
DMEA Field Team, Region III
420 Custom House
555 Battery Street
San Francisco 11, California

Re: Docket No. DMEA 3506 (Lead-Zinc)
Umberci Mines Inc.
Carbonate King Mine
San Bernardino County, California

Dear Mr. Miller:

A review of the cited application, of which you have a copy, indicates that an examination of the property is necessary. Will you please have such an examination made and submit your report and recommendations to us.

In the event that the application is considered favorably by you, the Applicant should be requested to submit a map showing the location of the claims which should show where the proposed work is to be done.

Enclosed are copies of memorandums from the Commodity members, R. D. Trace, USGS, dated October 8, 1954, and O. M. Bishop, USBM, dated October 7, 1954, giving their recommendations and comments regarding the application.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GCS)

JWAlt/er 10/19/54

Enclosures 2

Copy to: Docket
Admr R. File
Op. Committee
Base Metals
Mr. Bishop, USBM
Mr. Kiilsgaard, USGS
Chron.

APPROVED:

J. H. Hedges

Member, Bureau of Mines (JHH)

Thor H. Kiilsgaard

Member, Geological Survey (THK)

A.C.4

File Copy
Surname

J.W. All.
Guisewel
Kiilsgaard
Hedges
Selfridge
K. Johnson

UNITED STATES
DEPARTMENT OF THE INTERIOR 500
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

OCT 25 1954

Mr. James J. Pattie, Vice Pres.
Umberci Mines Inc
1921 Hollywood Way
Burbank, California

Re: Docket No. DMEA-3506 (Lead-Zinc)
Umberci Mines Inc.
Carbonate King Mine
San Bernardino County, California

Gentlemen:

Your application for Government assistance to explore your property has been reviewed by the Base Metals Division of the Defense Minerals Exploration Administration, and has been referred for a field examination to:

Mr. H. C. Miller, Executive Officer
DMEA Field Team, Region III
420 Custom House
555 Battery Street
San Francisco 11, California

The Regional Office will contact you at an early date as to when an examination is to be made. Any assistance that you may give the members of the Field Team during the examination will be appreciated.

Sincerely yours,

C. O. Mittendorf

Administrator

JWALTher 10/19/54

Copy to: Docket
Admr R. File
Op. Committee
Base Metals
Region III
Mr. Bishop, USBM
Mr. Kiilsgaard, USGS
Chron.

R.C.H.

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

October 7, 1954

Memorandum

To: W. R. Griswold, DMEA

From: O. M. Bishop, USBM

Subject: Docket No. DMEA-3506 - Application for $9,735 lead-zinc exploration project, Umberci Mines, San Bernardino County, California

I recommend a field team examination of the property, followed by consultation with the applicant for the purpose of appraising the proposal and making appropriate modifications in line with sound exploration practice and DMEA policy.

Although the applicant has answered all questions, the interrelationship of stratigraphy and structure is not clear, nor is there evidence presented on the grade, quality and width of the various ore exposures. Much of the work proposed, such as the proposed raise to connect ore exposed on the various levels by a raise, appears to be wholly development work.

Cost figures presented are at considerable variance with DMEA experience and will require review with the applicant. There is also a suggestion that the applicant hopes to meet part of his share of the cost by borrowing, and by sale of shares in the company. Both of these elements need to be more fully understood for appraisal.

O. M. Bishop

O. M. Bishop

Copy to: Minerals Division
Mr. Kiilsgaard, Room 5227
O. M. Bishop
Files

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

October 7, 1954

Memorandum

To: W. R. Griswold, DMEA

From: O. M. Bishop, USBM

Subject: Docket No. DMEA-3506 - Application for $9,735 lead-zinc exploration project, Umberci Mines, San Bernardino County, California

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O. M. Bishop

Copy to: Minerals Division
Mr. Kiilsgaard, Room 5827
O. M. Bishop
Files

IN REPLY REFER TO:

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

RECEIVED
OCT 11 1954

October 8, 1954

To be ignored
Wrong name -
R. Trace phoned 2/4/55

Memorandum

REVIEW OF APPLICATION DMEA-3506 (Lead-Zinc)

To: W. R. Griswold, Defense Minerals Exploration Administration
From: R. D. Trace, U. S. Geological Survey
Applicant's name and address: Umberci Mines, Inc., 1921 Hollywood Way, Burbank, California
Name of property: Carbonate King Mine
Location of property: San Bernardino Co., Calif., near Goodsprings district.
Summary of applicant's proposal:
1) Raising and drifting 580 feet.
2) Drilling 180 feet.
3) Sample dumps, road work, and metallurgical tests.
Sources of information on applicant's property:
Richards, Arthur, and Brokaw, A. L., Geology and ore deposits of the Koko Weef Mountain Area, San Bernardino Co., Calif., U.S.G.S. Open File Report, February 1944.
Wiebelt, F. J., Investigation of Carbonate King Zinc Mine (Crystal Cave group), San Bernardino Co., Calif., U.S.B.M. R.I. 4522, August 1949.
Comments:

The Carbonate King mine area, on the southwest side of Koko Weef Mountain, consists of Paleozoic limestone and dolomite which dip about 60 degrees southwest. A post-mineral thrust fault striking north and dipping about 35 degrees west crops out near the top of the mountain and is also exposed in the mine workings, where it offsets and roughly divides the ore body into -- upper and lower segments.

The ore is mostly calamine and smithsonite and occurs as a tabular lense in a zone essentially parallel to the bedding or slightly steeper. Minor fractures essentially parallel to the bedding or slightly steeper are believed to have acted as conduits for the mineralizing solutions.

In 1948 ore had been mined to a depth of 275 feet below the surface outcrop. The present operator has probably extended the total depth of mining by over 50 feet. Ore widths have ranged from a few to 30 feet and the strike length of the ore has been as much as 130 feet. Laterally

the ore feathers out whereas in depth it pinches to unminable widths.

About 10,000 tons of 35-40 percent zinc and 1 percent lead ore has been mined since the mine was opened in 1940.

Eight holes were diamond-drilled by the Bureau of Mines in 1947-48, to explore both under the present mined area, and north and south along the strike of the mineralized zone. No ore was found.

Most of the proposed project, although not adequately outlined in the application, might be called "robbing." Two-thirds of the cost of the work is going after possible ore between the various levels. If ground conditions are as bad as described by applicant, this might be a difficult operation.

The location of the proposed 180 feet of drilling is not given. The cost figures given may be low.

RECOMMENDATION: Refer to Field Team.

R. D. Trace

R. D. Trace

IN REPLY REFER TO:

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

October 6, 1954

Memorandum

REVIEW OF APPLICATION DMEA-3506 (Lead-Zinc)

To: W. R. Griswold, Defense Minerals Exploration Administration
From: R. D. Trace, U. S. Geological Survey
Applicant's name and address: Umberai Mines, Inc., 1921 Hollywood Way, Burbank, California
Name of property: Carbonate King Mine
Location of property: San Bernardino Co., Calif., near Goodsprings district.
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Comments:

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The location of the proposed 180 feet of drilling is not given. The cost figures given may be low.

RECOMMENDATION: Refer to Field Team.

R. D. Trace

Copy to: O. M. Bishop, 3617
Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file

RDTrace:hlm
G-10/8/54

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

September 30, 1954

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: Chief, Operation's Control and Statistics Division

Subject: Assignment of Docket Number

There is listed below the assigned docket number to an application recently received from Region III.

DMEA-3506 Umberci Mines Inc.

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

Umberci Mines Inc.
% Jas. J. Pattie
1921 Hollywood Way
Burbank, Calif.

September 30, 1954
Subject: DMEA-3506
Re: Exploration Assistance
Carbonate King Mine

Gentlemen:

The receipt of your application dated September 20, 1954 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-3506 and referred to the Base Metals Division.

Kindly refer to in any future correspondence relating to your application.

Sincerely yours,

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 28 1954

420 Custom House
555 Battery Street
San Francisco 11, Calif.

September 23, 1954

Memorandum

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

From: Executive Officer, DMEA Field Team, Region III

Subject: Loan Application Forms MF-103 (Lead-Zinc)
Umberci Mines Inc.
The Carbonate King Mine
San Bernardino County, California

Attached are three sets of MF-103 forms received in our mail from James J. Pattie, Chairman, Board of Directors, Umberci Mines Inc., making application for a loan on the Carbonate King Mine in San Bernardino County, California. The fourth set has been retained in our files.

Also attached is a folder containing material which is to be returned to the Operator when it has served its purpose.

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

Attachments

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

Defense Minerals Administration
RECEIVED
SEP 28 1954

420 Custom House
555 Battery Street
San Francisco 11, Calif.

September 23, 1954

Memorandum

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

From: Executive Officer, DMEA Field Team, Region III

Subject: Loan Application Forms MF-103 (Lead-Zinc)
Umberci Mines Inc.
The Carbonate King Mine
San Bernardino County, California

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Also attached is a folder containing material which is to be returned to the Operator when it has served its purpose.

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

Attachments

Copy #1.

Refer to	Noted	Date
N.C. Miller		9/30
Answered		

UMBERCI MINES INC.

[redacted]

1921 Hollywood Way
Burbank, California

OFFICERS
R. W. Westfall, President
Jule C. Westfall, Secretary

DIRECTORS
Hazel De Witt
Claude H. Parsons
James J. Pattie

September 29, 1954

H.C. Miller, Executive Officer,
DMEA Field Team Region 111
420 Custom House, 555 Battery Street
San Francisco, California

Gentlemen:

Having completed DEMA - MF 100 application which included all information available and copies of our own working maps, we hereby make application for aid in search for unknown and undeveloped sources of Lead and Zinc and other eligible minerals which we have good reason to believe exists in very large quanties on claims owned by Umberci Mines Inc.

Our location is stratigic being in a highly mineralized area and in close proximity to highly productive areas. Our corporation is in good condition and well represented legally by McNamee &McNamee of Las Vegas,Nevada and Allen C. McGurk, San Bernardino, California. Our geologist, John Daniell a recognized authority and our officers are men which have years of mining experience and business management. Our equipment is in very good condition.

We feel that we can and do qualify for consideration in this matter and hereby submit this data for your approval.

Sincerely,

James J. Pattie

James J. Pattie
Chairman of Board of Directors
Umberci Mines Inc.

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 28 1954

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

Not to be filled in by applicant

Docket No. 3506
Metal or Mineral Lead-ZINC
Date Received
Estimated Cost $9,735
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address:

Umberci Mines Inc.; Organized in the state of Nevada.
% Jas.J. Pattie, V.P. 1921 Hollywood Way, Burbank. Calif.

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

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

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

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

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract Umberci; ~~Umberci~~ #1; Umberci #2. Umberci #3 Umberci #4; Umberci #5. Hazel O; Hazel #1. Claims owned, Not Patented, Full Sized. Located in Clark Mining District. Locally called Yellow Pine Mining Dist.
San Bernardino Co, Calif. See Attached sheet for title etc.

(*b*) State any mine name by which the property is known. The Carbonate King Mine.

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise
Claims owned outright, Assessment work all done and filed.

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property. Assessment work filed with Co. Recorder Book 341; page 56.

(*e*) If you own the land, describe any liens or encumbrances on it See attached sheet for 3 - d.
No liens or encumberances against the property.

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

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

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

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

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

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

16—66551-1

See attached Sheet.

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore We wish to explore lead & zinc ores & extensions of old workings & workings below 700 ft. Lw.

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

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

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

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

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

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

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

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

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

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

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

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

NOTE.—No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes), or any other indirect costs, or work performed or costs incurred before the date of the contract, should be included in the estimate of costs. 6. a to h. attached sheets.

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

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

[X] Money [X] Use of equipment owned by you [X] Other

Explain in detail on acompanying paper.

See attached sheet.

CERTIFICATION

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

Dated September 20 1954

Humboldt Mining Inc
(Applicant)

By James L. Sattler
Chairman Board of Directors

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

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

Data, Form M. F. 103, D. M. E. A.

1.--a,

Amberci Mines Inc. Organized in the state of Nevada. Clarke Co.

General Office, % James J. Pattie, 2nd V.P. 1921 Hollywood Way, Burbank, Calif.
Officers:
President; R.W.Westfall; (Gen. Mgr) 10837 McVine Ave. Sunland, Calif.
1st. V.P.Claude H. Parsons, 17411 Devonshire St, Northridge, Calif.
2nd. V.P. (Chairman) James J. Pattie, 1921 Hollywood Way, Burbank, Calif.
3rd. V.P. Earl Bartlett, 8797 Santa Monica Blvd. Los Angeles, Calif.
4th. V.P. Ray Conover 10016 Afcalde Way, Glendale, Calif.
5th. V.P. Robert McCombs 14737 Sylvan Way, Vonnell, Calif. (Vonnell)
EDDie M. Pattie, Secy & Treas. 1921 Hollywood Way, Burbank, Calif.

1. b. Nevada organization.

1.--c. Given Above.

1.--d. Not a partnership.

2. - General:-

3.--a. Claims owned and not patented; Seven full sized claims.

Umberci; Umberci #2; Umberci #3; Umberci #4; Umberci #5;

Hazel O. Hazel O. 1.
Clark Mining District. Locally Known as Yellow Pine Mining District.
San Bernadino Co. Calif. Legal d scription not attainable as much land in the county remains to be surveyed. Location 12 miles from Mountain Pass, Calif. last roadway station on Route 91 going east. 5 miles west Calif-Nev state Road.

3.--b. Formerly known as the Carbonate King Mine.

3.--c. Claims all owner outright. Assessment work all done and filed.

3.--d. On Sept. 8th. 1952 at a meeting of the Board of Directors, with a quorum present, and held in the Law Office of McNamee & McNamee, El Portal Theatre Bldg. Las Vegas Nevada, Clarke County, 11 O'clock A.M.
Robert W. Westfall assigned, or agreed to assign his right title, and interest in The five Umberci Claims. Said claims had been located before. His wife, being present also approved the sale. The consideration was for 5000; five thousand shares of stock of the Amberci Mines Inc.
Hazel DeWitt being present in the meeting and acting as First Vice President of the corporation, then offered to sell her two Hazel Mining claims for 5000, five thousand shares of the corportion in full consideration for her equities inthe claims, and to deliver a good & sufficient deed to the corporation conveying title to said claims, A motion to that effect was duly made at the meeting, and seconded and carried,

3.--e. No liens or encumberances agains the property.

4.--a. b, & c. separate sheets.
(a) Work has been conducted on a rather small scale other than that which the officers do and have done during vacations and week ends for nearly a year. Efforts were concentrated on development work below the 700 ft. level.There; a 82' ft. shaft was sunk and a drift to the east was run and also to the west. While short, both encountered ore. Some long hole drilling was run to the east and encountered ore, probably the extension downwards of the 5th level ore body above the 700 lv. Ore therefor seems to Occur over a considerable area on and below the 700lv. tunnel. A raise to connect with surface was put up and still shows good ore but as the ground was insecure it was not extracted and it is now proposed to run a tunnel in from surface and encounter it.

4--a contd;

Old data and records are limited on early operations. The mine was reportedly located in 1904 and production started in 1906. Operation was fairly steady in the early days and there was a mill on the property. After the first few years there was less regularity in the production and became intermittent in the later years but the mill was moved and production, except high grade ore, ceased. War years mineral prices stimulated production of high grade ore but a minimum of development work was done.

Work was induced by the discovery of a very large surface exposure of high grade lead and zinc carbonates. The ore was associated with a major fault fissure and a hospitable limestone bed.

The discovery proved to be a body 125 ft. along the 45° dipping limestone and varied in width from 35 ft. up to over 100'. The body was called the Glory Hole. In other places the dip ranges up to 65°. Levels were driven in on levels #2; #3 ; #4. and #5 which is called the 700 ft. level for the most part because the tunnel is 700 ft. long and is some 840 ft. below #1 along changing dips and altering topography.

All these crosscuts hit ore. And the several ore bodies are of good size. It is not positively known as yet if these bodies were separate replacements or if the ore continued from one to the other thus being one large body. The more recent work definitely connects up with #5 body and the one now being developed below the 700. A series of raises and winzes connects the 700 and the #1 but was used for dropping ore down and the work was away from the ore zones.

While many evidences exist in the old workings that ore is still present in considerable amounts it appears that selective mining was followed and the work of extending the ore through development was sadly neglected.

There are about 1700 ft. of openings in the mine open and accessible. It is now proposed to connect the ore in the 700 raise with a tunnel from surface This, will require 80 ft. + or - of a tunnel and hit the known ore where "loose ground) wont be a hazard at least for a time. It is advised that work under the 700 be continued.

There are no production facilities (mill) on the property .

The company has been carrying on its operations by contributing labor and money. All but a few of the workings can be entered and inspected.

It is most unfortunate that developement work in the earlier days was quite neglected particularly if the ore grade was insufficient to take care of the attending high costs, Transportation, Smelting, Supplies, Low lead prices, Zinc usually resulting in penalties, hauling ore by burro back etc. No cordwood & coal was high. Mill water 4 1/2 miles to pump.

4.--b.

Early production is not too well known but the mine in its earlier days, and while they had a mill, is credited with 6000 tons ofhigh grade ore and concentrates.

There is no current production.

Calif. State gives 1949 production of 500 tons 40% grade. 1950 as 110 tons 40 % zinc. Smelting records 1950-1951 give 376.1 tons which assayed12.74% lead and 11.9% zinc. Average carload 53.7 dry tons. 1953; from development 22 1/2 dry tons shipped , lead 17.1% ; zinc 9.7% gold & silver proved low.

No estimate of Ore Reserves has been made although a considerable amount of ore shows in each of the old bodies. It probably ,what was left, was too low grade to meet expenses, enumerated above, and with low mill recovery.

The ore faces in the old works are irregular and quite a proportion might prove commercial with modern metheds and higher recoveries and better mineral prices prevailing.

Where and as worked the dipping footwall limestone seems never to have been penetrated to ascertain if the body connected up with the next lower and again they limited height extraction to 10-20 ft.

While raises & winzes connect to drop ore to 700 lv. the connection was not between ore body and orebody but in country rock, as near as can be learned. Altgough at the 700 ore has been found around 200 ft up the major fault. It is recommended that connections in ore be attempted between to levels by raising and thus demonstrate whether ore lies between the ore bodies and also if the perimeter of the present considered worked out ore bedies which show considerable ore now.

4.-c.

Only sedimentary rocks show on the property and they, have a thickness of thousands of feet. Most of the beds are silicious limestones, but some are dolomitic, a few beds are sandstones and there are a few shales. All the beds seem to vary in size, thickness and hardness to a noticable degree.

The region is very badly faulted, fissured, brecciated and many displacements show. Nearest igneous rocks are some 2 1/2 miles from the property. A major fault is conspicuous as it has affected the topography very much. It is associated with the ore and ore bodies and it is readily traced for long distances beyond the property. It strikes virtually N--S. but shows some variation in places.

It cuts across Umberci & Umberci #3 claims.

Mineralization is mostly as follows:- Galena & Cerrussite carry the lead values Very little galena shows in the upper levels but some shows at the 5th lv. and below the 700 ft. tunnel. Smithsonite, the zinc carbonate, and Calamine, the hydrous zinc silicate are the zinc ores. A very scarce amount of Sphalerite is seen occasionally, where Galena is seen. Gold & Silver values run to about $2.00 per ton. Silica, Aluminum, Magnesium, Iron, a little manganese shows with staining effects., and traces of copper and sulphur show in assays. The lead & zinc gives the ore a whitish color which is assisted by the magnesium and limestone alterations. Iron gives it a light brown color at times and manganese oxides add blackish spots in places. As a whole the ore is light colored but around the 700 Lv. less oxidization shows.

Deposition of ore follows along the major fault from which also replacement deposits bulge out some ove 100 ft. wide. The ore under the 700 indicates somwwhat wider widths.

As the Old Timers, only worked but short distances up in the stopes and seemingly made no effort to follow ore down, the actual continuity of the ore for close to 1000 ft. along the strike is not definitely proven nor disproven but is indicated. As alluded to above in 4--b, the heavy attending expenses and hand steel drilling may have deterred them. The upper ores are not hard for the most part other than when a zone of secondary quartz may be found. At present the ore mined may be dropped down in winzes & raises to the 700 tunnel and taken out to be milled or shipped.

Ore in the Glory Hole appears to have been cut off by another (minor) f fault-fissure but the mineralized solutions etc. worked back into the minor fault for approximately 200 ft. and considerable ore was shipped therefrom from the upper 35 ft. The type of ore is identical with that of the major fault. Its strike is N.E. S.W. about an average of 60°. While many other fault-fissures show on the property very little ore shows in them. The ore would seem to be a vein--replacement type of ore body, or a combination of both. It is very unfortunate that such limited development work was done in the early days. Such work is well warranted now and an effort is almost compulsatory now to ascertain if the several ore bodies mentioned are or are not portions of a large zone which might be well demonstrated if the #4 , #3 , #2, and #1, could be joined together by raises and prove continuity of ore.

A crosscut from #2 body run to get under the ore found in the minor vein is very warranted also.

The ore seems to be associated with the Jura--Triassic period when volcanic and plutonic activity was pronounced in the southwest. No doubt Hydro-Thermal solutions, mineral bearing, were forced up from depths and deposited values when & where a hospitable zone of limestone wq s encountered.

One reason for wanting to do exploratory work from the several ore bodies is that there still remains a considerable lot of what must have been considered Low Grade Ore in the past operations.

4.-d.

See separate sheet following 4-c.

The mine is distant from Jean Nev. 18 miles. Post Office, domestic supplies etc. Good road connecting with Union Pacific R.R. also for loading & unloading.

Highway # 91 is 12 miles from the property connecting Mountain Pass last road station in Calif. Domestic supplies, Phone etc. Los Angeles 377 miles, Salt Lake Supplies and Smelter735 miles; 898 Miles to San Francisco , Supplies and Smelter at Selby. Phoenix 366 miles via truck good roads, supplies Equipment too. Las Vegas 48 mi. supplies, some equipment, Mountain Pass and Nipton, Nev. are the nearest housing places.

Two concrete cabins are on the property both in good shape. Can accommodate 8 - 10 men.

4-e.

The experience at the mine and other near mines has been that many men like to work in and near a desert mine where they can spend little money.

It has been estimated that an addition can be built on one cabin for $500.00 and thus double the crew. Often supplies, lumber and even equipment can be purchased at near-by idle mines at much lower prices.

5--a.

We wish to explore for lead & zinc in old workings and below the 700 ' lv.

5.-b.

See attached sheet;-

Work of an exploratory nature to be done or is advisable.

What & Where	Amount					Cost.
Continuing work below the 700 lv.	100	ft.	$20	per	ft.	$.2,000.00
New tunnel from surface to cut ore in raise up from 700' Estimated 200 tons good ore shows.	80	"	15	"	"	1,200.00
Raises from#4; #3. & #2 ore bodies to cut bodies above. Neglected development, Considerable ore shows in foot & hangings total	300	"	10	"	"	3,000.00
Explore for ore Minor fault fissure below 35' by crosscut from #2 body, Est.	100	"	15	"	"	1,500.00
Long Hole drilling New Shaft area	180	"	2	"	"	360.00
Explore 4 dumps Est. 20,000 tons						225.00
Improve trail to Glory Hole Bull Dozer	1000	3 days				165.00
Metallurgical Tests						400.00
Geophysical Survey (If approved by D. M. E. A.)($500.00)						
Total Dev. Cost Est.						$8,850.00
Contingency Allowance						885.00
						$ 9,735.00

Unit costs based on 1953 operations & enquiries other mines.

5.-c.

Work could start within 2 weeks; with additional equipment 30 days from delivery. With complete equipment and crew 18 to 20 men work should be finished completely within 12 mo. or less.Work could be expidited by concentrating on 2 to 4 projects. A geophysical report might help materially.

5.-d.

The present president and general manager, Mr. Robert Westfall is experienced in mining and overseeing work and is capable. He is highly respected and enjoys a very fine reputation.

6.-a.

Separate Sheet:-

6.-a.

No contract work is contemplated at the start but it is believed contract work when project is well organized would be advisable. 5-B . above gives the prevailing for underground work. In addition rates for other things are about as follows. General Manager $500.00 per mo. Miners $12 to $14 per day. Trammers $12 to $14 per day. Hoist men $2.00 per hour. Common Labor $1.1/2 per hr. Head of mechanical dept. $15.00 day. Electrician & surveying $15.00 per day. Consultant mining & geology very nominal.

6. - c.

Gasoline 30 cts per gallon, Oil 30 cts per quart, Dynamite 100 lbs $23.00 Dynamite by ton $18.00 per 100 lbs. Fuse $1 1/2 per 100 ft. Caps $2.50 per hundred.

6.-d. New Compressor, 100 cu.ft. $3500.00: 2 Machines for drilling, tools & steel and long hole steel $1000.00; Larger Hoist $800.00; Pipe, Rails, Cable; Mine cars $650.00 Small Electric Light Plant $600.00; 3000 Gal. Water storage tank $300.00. This equipment will help handle two crews. Purchase at $500.00 per mo.

Equipment owned by owners:

Portable Gardner-Denver Compressor 100 ft. capacity
Sullivan Tugger Hoist
Wisconsin Tugger Hoist.
Complete line of Tools,
Considerable Rail, Steel, Pipe, etc but insufficient for larger operations.
Small Forge.
2 Mine Cars, 1.Bucket 1/4 ton capacity.
1.Stoper; 1 Jack Hammer.
2. Air Receivers.
2. Water Tanks.
1. G.M. Motor Truck, Handy size, Excellent condition.
1. Dodge Truck, 10 years old, Good condition & servicable.Good size.
1. Ore Bin.
1. Loading Platform.

2. Concrete houses for crew, Mess Hall fully equiped with culinary arricles, dishes etc etc. also stove, tables chairs etc.

Mining equipment, houses and contained equipment appraised at $20,000.00

Rental basis $500.00 per month.

6.- e.

Probably no rehabilitation outlay required. Possibly for cleaning foundations and placement and connecting up $400.00

6.-f.

Addition to cabin or house to accomodate large crew	$750.00
Housing equipment beds etc dishesetc,	400.00
Butaine installation, 2 showers, 2 tanks I. Refrigerator	$800.00
	$1,950.00

6.-g.

Rehabilitating installing etc	$400.00
Analytical work, accounting per month	$300.00

Insurance miners, $15.00 per mo. per $100.00 wages.
2 Surface $ 5.00 " " " " .
0 near by mine) Insurance expense for 4 men $12.00 per mo per man over 8 mo time)
$2.50 per man per mo. F. I. C. A. tax.
Social Security Employment $5.00 per mo. per man.
Cost hauling water, domestic, mine etc for 8 months was $80.00
Taxes; Prevailing rate. Generally small for non-producing properties.

6. h.
7. Possible 10%.

a. Yes; subject to your approval for loan and stipulations. Use of Equipment,
b. Scale of Operations Application of wages to reasonable extent. Sale of shares in Co.

Explanation: See attached sheet.

BUREAU OF MINES

U. S. Bureau of Mines
Custom House
Sansome Street
San Francisco 11, California

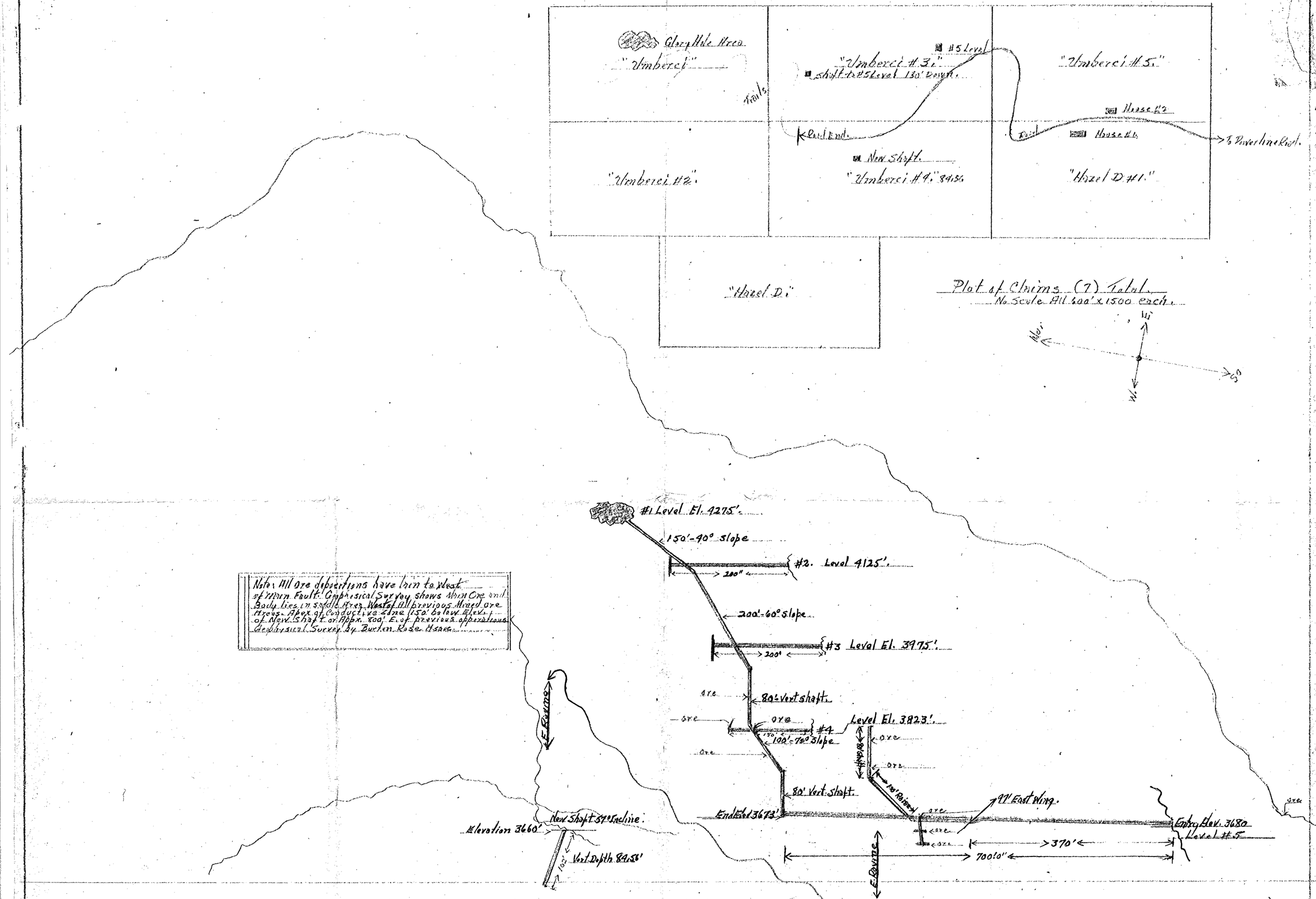
OFFICIAL BUSINESS

CALIF.

AIR MAIL

Defense Minerals Exploration Administration
Interior Building
Washington 25, D. C.

AIR MAIL

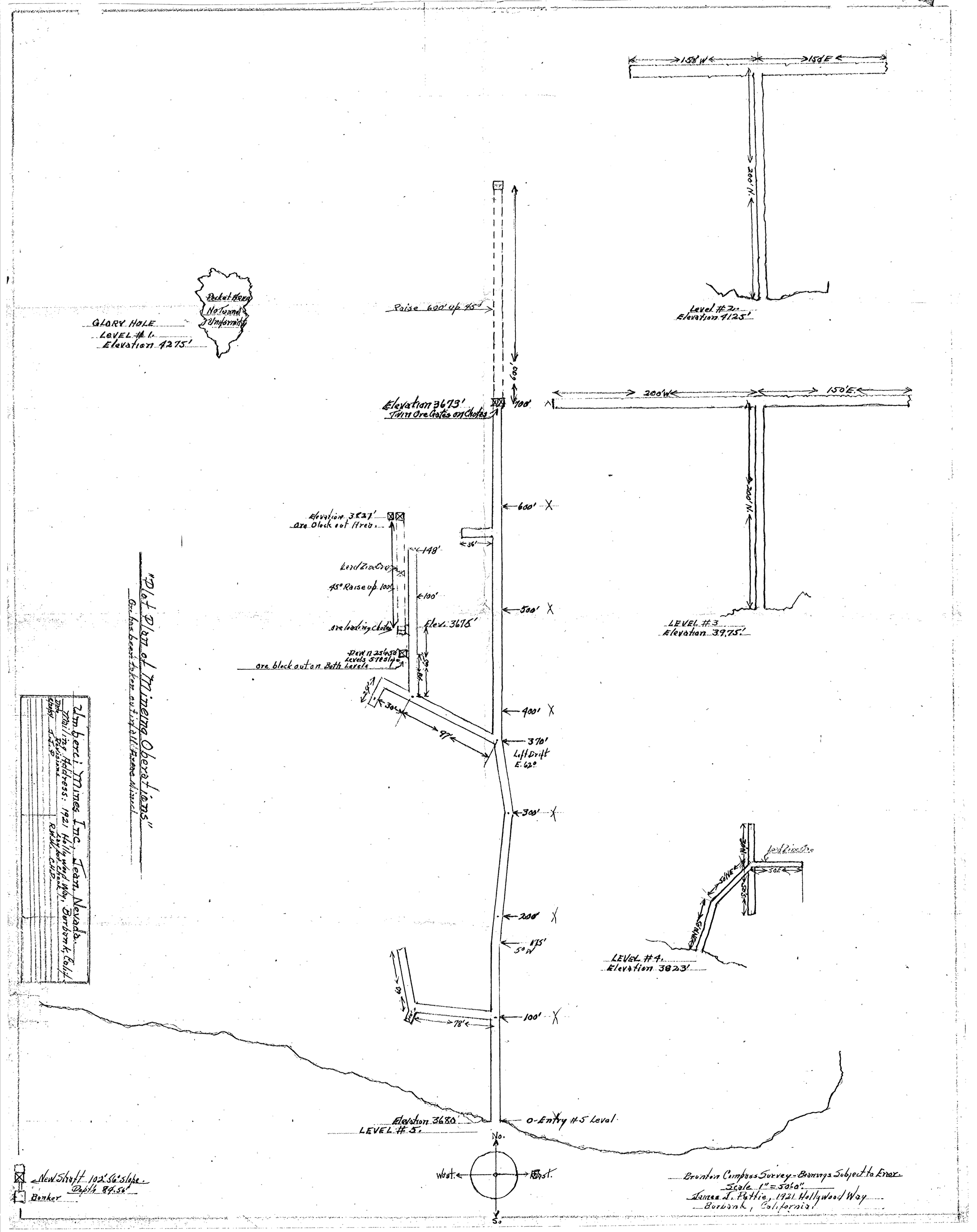


"North-South" CROSS SECTION LAYOUT

Scale 1" = 100'-0"

Umberci Mines Inc., Tean, Nevada.

Date	Drawn	Dsn Checked
8/30/54	JJP	RWW CHP


Plot of Plan of Mineina Oberet Mines
Orebodies outlined where discovered
Mineina Mines Inc., Team, Nevada.
Mailing Address: 1921 Hollywood Way, Burbank, Calif.
Pocket Area
No Found
Uniformity
GLORY HOLE
LEVEL #1.
Elevation 4275'
Raise 600' up 45°
Elevation 3673'
Twin Ore Gates on Chutes
Elevation 3827'
Ore Block out Area
Lead Zinc Ore
45° Raise up 100'
ore loading Chutes
Elev. 3675'
Down 25'x50'
Levels 5' Slope
ore block out on Both Levels
Left Drift
E. 62°
Elevation 3680'
LEVEL #5.
0-Entry #5 Level
LEVEL #3
Elevation 3975'
Level #2.
Elevation 4125'
LEVEL #4.
Elevation 3823'
Lead Zinc Ore
New Shaft 102' 56° Slope.
Depth 84.56'
Bonker
Brunton Compass Survey - Bearings Subject to Error.
Scale 1" = 50'0".
James J. Pattie, 1921 Hollywood Way
Burbank, California.
No.
West.
East.
So.