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DEFENSE MINERALS ADMINISTRATION
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To:	Code 600 Rm 4637	Date	9-21-53
To:	Anderson	Date	9/21/53
To:	Oper Com	Date	10-14-53
To:	Code 600	Date	10/15/53
To:	Oper Com.	Date	4-16-54
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CONTROLLED DOCUMENT

File Copy
Surname:
Houk
Larrabee
(C.H.) Johnson
Selvidge
Ryan

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C. 600

Mr. Vernon H. Kennedy
Box 1748
Miami, Arizona

APR 16 1954

Re: Docket No. DMEA-3170 - Asbestos
Kennedy Mines
Pinal County, Arizona

Dear Mr. Kennedy:

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

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

Careful study of all our information indicates to us that the probability of disclosing significant reserves of asbestos 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.

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

LGHouk:gad 4/7/54
Copy to: Admr. R. File
Docket File
Operating Committee
Field Team, Region IV
Dr. Bowles, 3516
Mr. Larrabee, G-232 GSA Bldg.
Mr. Houk

R.C.S.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C. 600

April 15, 1954

Memorandum

To: Administrator

From: Nonmetallic Minerals Division

Subject: A denial of exploration assistance.

1. Docket No. DMEA-3170 - Asbestos
Kennedy Mines
Pinal County, Arizona

Applicant: Vernon H. Kennedy
Box 1748
Miami, Arizona

2. Application: Form MF-103, dated September 17, 1953
Amount requested: $31,850
No contract: Application denied.

3. Comments:

Recommendation: The Nonmetallic Minerals Division concurs with the field team that exploration assistance is not warranted. The Geological Survey and the Bureau of Mines recommend that the application should be denied because of the non-strategic quality of the asbestos and the probable small size of the scattered deposits.

Future possibilities: Additional exploration not warranted. Because of unfavorable thin limestone beds, weak serpentenization, non-strategic fiber and the limited size of the deposit.

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
OFFICES
APR - 8 1954

April 8, 1954

Memorandum

To: Mr. Lawrence G. Houk, Director, Non-Metallic Minerals Division, Defense Minerals Exploration Administration

From: Oliver Bowles, Commodity Specialist, Construction and Chemical Materials Branch

Subject: DMEA 3170, Mountain of Mystery Claims, Pinal County, Arizona

I have read the geologic and engineering reports on these claims, and I concur in the recommendation of Messrs. Houser, Ageton, and Stewart that the application be denied because of the non-strategic quality of the fiber and the probable small size of the deposit.

Oliver Bowles

Oliver Bowles

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

DEPT. OF THE INTERIOR
Minerals Administration
RECEIVED
MAR 26 1954

224 New Customhouse
Denver 2, Colorado

March 19, 1954.

Memorandum

To: Secretary to the Operating Committee, Defense Minerals Exploration Administration

From: Field Team, Region IV

Subject: Report of Examination - DMEA Docket 3170 (Asbestos), Vernon H. Kennedy, Mountain of Mystery Claims, Pinal County, Arizona.

Enclosed are the original and three copies of the report pertaining to the above application.

The applicant requested $31,850.00 to explore at depth the extension of surface exposures of chrysotile.

We concur that exploration on this property is not warranted and we recommend that the application be denied.

W H King
W. H. King

E. N. Hausbmann
for A. H. Koschmann

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
4-2-54
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Mining Division
Region IV

March 19, 1954.

Memorandum

To: Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: Report of Examination - Docket No. DMEA-3170 (Asbestos), Vernon H. Kennedy, Mountain of Mystery claims, Pinal County, Arizona.

Enclosed are nine copies of the engineering report of examination on the subject docket.

The applicant requested a total of $31,850.00 to explore at depth the extension of minor surface exposures of chrysotile.

The engineer examiner concludes that because of the thin limestone beds, weak serpentinization, non-strategic fiber, and a total fiber content of plus one inch within three widely spaced zones additional exploration is not warranted.

We concur in the recommendation that the application be denied.

W. H. King

W. H. King

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
4-2-54
(date)

March 8, 1954

Memorandum

To : W. H. King, Chief, Mining Division, Region IV

From : Chief, Mining Methods Br., Mining Div., Region IV

Subject : Report on Docket DMEA-3170, Kennedy's Mountain of Mystery Asbestos Mine, Pinto Creek Mining District, Pinal County, Ariz.

Enclosed are original and 8 copies of the section on Summary, Conclusions and Recommendations by Fred N. Houser of the Geological Survey and R. W. Ageton of the Bureau of Mines, and the section on Engineering by Ageton for the above report. A separate section on Geology will be submitted by the Geological Survey.

Because of unfavorable thin limestone beds, weak serpentenization, non-strategic fiber, and the possible limited size of the deposit, the examiners have recommended that the loan be denied. I concur with their recommendation.

Lincoln A. Stewart of the Bureau of Mines has examined this deposit under the Bureau's asbestos program, has read Ageton's report, and also approves it.

Brochure is enclosed.

Walter R. Storms

Walter R. Storms

CC W. H. King (8)
A. F. Shride
DMEA-3170
DF

WRStorms:frj

March 11 1954

Memorandum

To : Walter R. Storms, Chief, Mining Methods Br., Mining Div., Region IV, Tucson, Ariz.

From : Lincoln A. Stewart, Mining Engineer, Tucson, Ariz.

Subject : Report on Docket DMEA-3170, Kennedy's Mountain of Mystery Asbestos Mine, Pinal County, Ariz.

The report on the above property by Robert W. Ageton of the Bureau of Mines has been read by me. I have examined this mine under Bureau of Mines Program 906.1 - Asbestos Investigations, and concur with Ageton's conclusions and recommendations.

Lincoln A. Stewart

Lincoln A. Stewart, Mining Engineer
Mining Methods Branch
Mining Division, Region IV

CC W. H. King (Orig. & 8)
DMEA-3170
DF

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Defense Minerals Exploration Administration
Denver Federal Center
Denver 2, Colorado

February 23, 1954

Memorandum

To: DMEA Field Team, Region IV

From: A. H. Koschmann

Subject: DMEA Docket 3170, Mountain of Mystery Claims (asbestos), Pinal County, Arizona

Enclosed are 9 copies of a geologic report by F. N. Houser of the U. S. Geological Survey covering the above docket.

It has been recommended that the loan be denied.

A. H. Koschmann

A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Enclosures (9)

COPY PKM

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

P. O. Box 4126, University Station
Tucson 5, Arizona

February 19, 1954

Memorandum

To: A. H. Koschmann

From: F. N. Houser, Tucson, Arizona

Subject: Examination Report, DMEA 3170, Mountain of Mystery Claims (asbestos), Pinal County, Arizona

Enclosed are the original and 8 copies of a memorandum on the subject application. It is recommended that an exploration loan be denied because only insignificant quantities of poor quality asbestos are to be expected. I understand that the Bureau's report, which will include the map referred to herein, will be transmitted in about a week.

/s/ Fred

F. N. Houser
Geologist

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

DMEA-3170, Kennedy's Mountain of Mystery Asbestos Mine

Pinto Creek Mining District, Pinal County, Arizona

F. N. Houser, Geologist
U. S. Geological Survey

Robert W. Ageton, Mining Engineer
U. S. Bureau of Mines

March 1954

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

By Fred N. Houser[1] and Robert W. Ageton[2]

On October 20, 1953, the Executive Officer of the Defense Minerals Exploration Administration, Region IV, requested that an examination and report be made of the Mountain of Mystery claim group, situated in the Pinto Creek Mining District, Pinal County, about 10 miles westerly from Miami, Ariz. Vernon H. Kennedy, Box 1748, Miami, Ariz., owner of the claims, applied for Government assistance to explore for depth extension of surface exposures of chrysotile. The application was assigned Docket No. DMEA-3170 (asbestos). The total cost of the proposed work was estimated to be $31,850.00.

On February 5, 1954, Lincoln A. Stewart and R. W. Ageton, mining engineer, Bureau of Mines, and Fred N. Houser, geologist, Geological Survey, visited the property and mapped the surface exposures.

Exploration performed by the applicant has exposed 2 contiguous areas of asbestos mineralization differing about 50 feet in elevation. A short adit and surface cuts in the upper deposit expose a total of minus 1 inch of non-strategic fiber within widely spaced zones in weakly serpentinized, thin limestone beds. The lower deposit has not been as badly faulted and is geologically more favorable as the situs for an exploration program. However, the lack of strategic quality fiber and the apparent quantitative limitations also preclude consideration of this lower area for further exploration. Additional work at this property would not result in the discovery of a significant deposit of asbestos. Therefore, it is recommended that the application for Government assistance be denied.

1/ Geologist, U. S. Geological Survey
2/ Mining Engineer, U. S. Bureau of Mines

MOUNTAIN OF MYSTERY CLAIMS

ASBESTOS

DMEA 3170

PINAL COUNTY, ARIZONA

Geologic

by
F. N. Houser, Geologist
U.S. Geological Survey

MOUNTAIN OF MYSTERY CLAIMS

ASBESTOS

DMEA 3170

PINAL COUNTY, ARIZONA

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ILLUSTRATIONS

Figure 2 PLAN AND SECTION OF THE DEPOSIT OF THE MOUNTAIN OF MYSTERY CLAIM NO. 2 See Engineering Report

INTRODUCTION

The Mountain of Mystery Nos. 1, 2, 3 and 4 claims (unpatented) Kennedy Mines, located approximately in sec. 14, T. 1 N., R. 12 E., Pinal County, about 17 airmiles west of Globe, Arizona, comprise the subject of a proposed exploration program to cost $31,850. The writer, in company with L. A. Stewart and R. W. Ageton of the Bureau of Mines, examined this property on February 5.

Geology and asbestos deposits

The asbestos occurs as thin, non-persistent, cross-fiber veinlets in three zones of very weakly to moderately serpentinized limestone of the lower member of the per-Cambrian Mescal limestone. These zones parallel the bedding of the limestone. The structural relationships of the occurrence are shown in the map and cross-section accompanying the Bureau of Mines report by Ageton. Local faulting, somewhat generalized on this map, has complicated and will complicate any further exploration of the deposit by the owner.

The property is situated in a region of complex geologic history where intricate faulting and diabase intrusion have resulted in cutting the sedimentary terrane into tilted and disoriented blocks of greatly differing sizes. The asbestos examined is in what appear to be two such blocks (referred to subsequently as the north and south blocks) of lower Mescal limestone surrounded by diabase. Apparent igneous discordancies are noted on the map; all other observed contacts were concordant. Although the exact relationships of the diabase and the Mescal are not observable everywhere, the diabase is thought to separate the blocks in the vicinity of the west-trending gully where it is

inferred to be discordant with the north block. Experience in the Arizona asbestos deposits elsewhere has indicated that such discordancies are in many places favorable loci for asbestos in adjoining limestone; however, no increase nor concentration of asbestos or serpentine was observed toward any of the discordancies at this locality. One explanation might be that the discordancies are fault contacts rather than igneous contacts.

Past experience has also shown generally massive limestone beds and generous serpentinization of the limestone to be favorable factors in the occurrence of asbestos. The three zones of this deposit are in an 8-10 foot interval of thin-bedded limestone except in the adit where the limestone is medium-bedded and along the southwest slope of the north block where for short distances it is medium- to thick-bedded. Serpentinization of the limestone has not been intensive nor extensive; only in the adit and in places on the bench face of the north block does it approach the quantity commonly observed in modest deposits of the Sierra Ancha and Salt River areas to the north.

Of the three zones, the middle was found to be the most persistently fiber bearing. It contained about ½" of fiber, in partings from 1/8" to 1/4", locally up to 3/8", in exposures in the adit and along the bench faces of both blocks. The apparent limits of the fiber in this zone are shown in the adit where it thins rapidly toward the east (into the adit). Along the bench face of the north block the fiber is cut by a fault on the east and thins about 25' short of the west end of the bench face.

Traces to 1/8" fiber were noted in the upper zone (3-4 feet above middle zone) of the north block and along the bench face of the south block. The lower zone (4-5 feet below middle zone) was exposed only in the adit on the south block where it contained a trace of fiber, and at one place in the north block where it contained up to $\frac{1}{4}$" of fiber. Both zones are very weakly mineralized and the fiber is sporadic in distribution.

The quality of the fiber observed in all zones is semi-harsh to harsh and of low tensile strength. Some fiber in the adit and at one or two places elsewhere along the exposed cuts is somewhat softer but fiber of such quality is apparently very uncommon.

RECOMMENDATION

It is recommended that Government participation in the proposed exploration program be denied because (1) of the poor quality of the asbestos fiber and (2) because of the small quantity of asbestos to be anticipated on the grounds of geologically unfavorable country rock as judged by the general thin-bedded limestone, the paucity of serpentine, and the apparent low degree of mineralization adjacent to the diabase.

DMEA-3170, KENNEDY'S MOUNTAIN OF MYSTERY ASBESTOS MINE
PINTO CREEK MINING DISTRICT, PINAL COUNTY, ARIZONA

Engineering Report

By Robert W. Ageton
Mining Engineer
U. S. Bureau of Mines

March 1954

DMEA-3170, KENNEDY'S MOUNTAIN OF MYSTERY ASBESTOS MINE
PINTO CREEK MINING DISTRICT, PINAL COUNTY, ARIZONA

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Description of deposits	3
Conclusions	6
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ILLUSTRATIONS

Figure		Following page
1	Location map	2
2	Plan and section of the deposit on the Mountain of Mystery Claim No. 2	3

INTRODUCTION

On October 20, 1953, the Executive Officer of the Defense Minerals Exploration Administration, Region IV, requested that an examination and report be made on the feasibility of Government participation in an exploration project on the Mountain of Mystery group of claims, situated in the Pinto Creek Mining District about 10 miles westerly from Miami, Gila County, Ariz. Vernon H. Kennedy, Box 1748, Miami, Ariz., owner of the claims, was the applicant. Exploration was proposed to determine depth extension of surface exposures of chrysotile. The total cost of the proposed work was extimated to be $31,850.00. The application was assigned Docket No. DMEA-3170 (asbestos).

On February 5, 1953, R. W. Ageton, mining engineer, Bureau of Mines, and Fred N. Houser, geologist, Geological Survey, visited the property in the company of Vernon H. Kennedy the owner-applicant. The surface exposures and the short adit were examined and mapped.

ACKNOWLEDGMENTS

Acknowledgment is due Vernon H. Kennedy, the owner-applicant. Kennedy accompanied the DMEA field examiners to the mine and gave them information regarding the project proposal. Data supplied by Kennedy was of value in drawing conclusions as to the merits of the project. Acknowledgment also is due Lincoln A. Stewart of the Bureau of Mines, who mapped this deposit at the same time that it was visited by the DMEA examiners.

LOCATION, TOPOGRAPHY, AND PHYSICAL FEATURES

The Mountain of Mystery claims are situated in the Pinto Creek Mining District, Pinal County, Ariz., about 10 miles westerly from Miami, Ariz. To be more precise, the claims lie approximately in unsurveyed sec. 13, T. 1 N., R. 12 E.

The property is reached by proceeding southwesterly from Miami, Ariz., for 3.5 miles along U. S. Highway 60 - 70 to the junction with the road to the Castle Dome Open Pit mine. The abandoned pit is a prominent landmark easily recognized from the highway. Follow the Castle Dome road for 2.3 miles, then observe well-marked signs to the Kennedy ranch, which is a total of 14.5 miles from U. S. HIghway 60-70. The Mountain of Mystery group of claims lies southwestern from the ranch and is accessible by a pioneer road 1.5 miles long. This road is passable only with compound-geared trucks or 4-wheel drive vehicles.

The Mountain of Mystery deposit outcrops along the western slope of a prominent hill southwesterly from the Kennedy ranch. Mine workings are at an altitude of about 3,775 feet above sea level as estimated with an aneroid barometer. The climate is ideal for mining purposes during both the winter and the summer months. An adequate water supply could be obtained for a limited exploration program, and Arizona cypress trees could be utilized for lagging, light timbering, and track ties.

HISTORY AND PRODUCTION

Asbestos outcrops in the Pinto Creek Mining District were known as early as 1903. The first asbestos claims were located 4 miles northwest of Horrell's ranch, about 9 miles northwest of Miami, Gila County, Ariz. Horrell's Ranch is approximately 5.0 miles northeasterly from the applicant's Mountain of Mystery group of claims.

From data supplied by the applicant, some asbestos fiber was mined for test milling. Settlement sheets submitted for examination indicated that purchases were contingent pending yield results. Final settlement sheets were not offered for inspection. So far as is known the total fiber mined and submitted for test milling is as follows:

Grade	Pounds
No. 2	1,183
No. 3	465

OWNERSHIP AND EXTENT

The Mountain of Mystery group of unpatented lode mining claims is owned by Vernon H. Kennedy, Box 1748, Miami, Ariz. These claims are recorded in the Pinal County Recorder's Office, Florence, Ariz., as follows:

	Docket	Page
Mountain of Mystery No. 1	74	357
Mountain of Mystery No. 2	74	358
Mountain of Mystery No. 3	74	359
Mountain of Mystery No. 4	74	360

DESCRIPTION OF GEOLOGY

At the Mountain of Mystery deposit, chrysotile occurs in 3 zones in Pre-Cambrian Mescal limestone that is overlain and underlain by concordant diabase sills (figure 2). Considerable post-mineral faulting

has complicated the structure of this deposit, resulting in a general downfaulting pattern that starts from the adit exposed near the southern limit of the deposit and extends about 350 feet towards the northern boundary. A combination of post-mineral faulting, together with diabase intrusion has placed the northern section of the ore deposit approximately 50 feet below the southern half. In order to facilitate the discussion of fiber exposures, reference will be made to the 2 sections of the deposit, the North Block and the South Block.

Prior to the DMEA field examination, an exploration cut was made on the North Block exposing approximately 100 feet of the ore horizon. Three fiber zones were exposed in weakly serpentinized limestone. They are as follows:

Upper Zone: Trace.
3.0 ft. interval.
Middle Zone: 1/4" to 1" semi-soft fiber (many partings).
5.0 ft. interval.
Lower Zone: Trace to 1/2" semi-harsh fiber.

Limestone beds in the North Block range from $1\frac{1}{2}$ to $4\frac{1}{2}$ feet thick and are suggestive of limestone beds that have been favorable loci for asbestos mineralization in Gila County. However, diabase is discordant at each end of the North Block and it is possible that the deposit is limited in depth by contact with a discordant diabase sill. Lack of quality fiber and possible depth limitations indicate that further exploration is not justified in this location.

The South Block (approximately 50 feet in elevation above the North Block) was explored by an open cut 300 feet long, and by a 36-foot inclined adit. Two fiber bands were exposed in this area and average as follows:

(?) Upper Zone: 1/16" to 1/8" harsh fiber (weathered).
4 - 5 ft. interval.
(?) Middle Zone: 3/8" to 3/4" semi-harsh fiber (Many partings).
5.0 ft. interval.
Lower Zone: Not exposed.

Limestone beds in this southern section of the deposit are thin (up to 1 foot thick) and are similar to thin bedded, weakly serpentinized limestone deposits of Gila County that have proven to be unfavorable ore hosts. In addition to the factors of poor quality fiber and small total fiber content of the South Block, is the possibility that the deposit is limited in depth by contact with a discordant diabase sill.

Examination of the adit in the South Block disclosed 3 steeply dipping faults, trending northwesterly. Each fault has offset the beds from 1 to 2 feet with the downthrow on the northeast side. These post-mineral faults have complicated the structure and offset the limestone beds to such an extent that it would not be feasible to mine asbestos fiber in this section of the deposit. Fiber exposures noted in the adit are as follows:

Portal to Sta, 0 + 08:		Upper Zone: Not exposed. Middle Zone: Not exposed Lower Zone: Trace.
0 + 08 to	0 + 25:	Upper Zone: Not exposed. Middle Zone: 3/4" to 1" semi-harsh fiber (partings up to 3/8"). Lower Zone: Not exposed.
0 + 25 to	Face: (0 + 36)	Upper Zone: None. Middle Zone: 3/8" semi-harsh fiber (Lenses). Lower Zone: Not exposed.

CONCLUSIONS

Exploration work performed by the applicant has exposed 2 areas of asbestos mineralization referred to for convenience as the North Block and the South Block. The fiber horizon in the North Block is approximately 50 feet lower in elevation than is the fiber horizon of the South Block. However, it is believed that the enclosing limestone beds of both blocks are stratigraphically equal.

Quality of fiber and the geologic potential of the North Block are better than that of the South Block. Nevertheless, the DMEA field examiners believe that the fiber of this deposit is not of strategic quality and is limited as to quantity. Factors limiting the amount of fiber are the geologically unfavorable thin-bedded limestones and the small amount of serpentinization. Additional work at this property would not result in the discovery of a significant deposit of asbestos.

RECOMMENDATIONS

Geologically unfavorable thin limestone beds, weak serpentinization, non-strategic fiber, and a total fiber content of plus 1 inch within 3 widely spaced zones are considerations reviewed in concluding that no further exploration is justified at this deposit. Therefore, it is recommended that the application for exploration be denied.

IN REPLY REFER TO:
G-MD-CNM

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

March 31, 1954

Memorandum

REVIEW OF FIELD TEAM REPORT ON APPLICATION DMEA-3170 (asbestos)

To: L. G. Houk, Defense Minerals Exploration Administration
From: D. M. Larrabee, U. S. Geological Survey
Applicant: Vernon H. Kennedy.
Name of property: Mountain of Mystery Claims.
Location of property: Pinal County, Arizona.
Date of field team report: February 19, 1954.
Authorship of field team report: F. N. Houser and R. W. Ageton.
Field team's recommendation: Denial.
Comments: Insignificant quantities of strategic asbestos expected.
Geologic nature of the deposit is unfavorable.
ACTION RECOMMENDED: Follow field team's recommendation.

D. M. Larrabee

FILE COPY
SURNAME:

Anderson
Houk
Hayes
Hedges
Bridge
Blum

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

OCT 1 4 1953

Mr. Vernon H. Kennedy
Box 1748
Miami, Arizona

Re: Docket No. DMEA-3170 - Asbestos
Kennedy Mines
Pinal County, Arizona

Dear Mr. Kennedy:

Your application for assistance in exploring the subject property has been reviewed by the Nonmetallic Minerals Division of the Defense Minerals Exploration Administration and has been referred to Mr. W. H. King, Executive Officer, DMEA Field Team, Region IV, Bureau of Mines, 224 New Customhouse Building, Denver 2, Colorado, for further consideration and possibly a field examination.

The Regional office will contact you at an early date if 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,

Frank E. Johnson (fw)

ACTING Administrator

WCAnderson:gad 10/13/53
Copy to: Admr. R. File
Docket File
Field Team, Region IV
Operating Committee
Dr. Bowles, 3516
Mr. Larrabee, G-232 GSA Bldg.
Mr. Houk

R.C.B.
10-14-53

FILE COPY
SURNAME:

Anderson
Selfridge

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

600

OCT 14 1953

Mr. W. H. King
Executive Officer, DMEA
Field Team, Region IV
Bureau of Mines
224 New Customhouse Bldg.
Denver 2, Colorado

Subject: Docket No. DMEA-3170 - Asbestos
Vernon H. Kennedy
Kennedy Mines
Pinal County, Arizona

Dear Mr. King:

Please review the subject application and arrange for a field examination if you deem it advisable.

Copies of memoranda from the Geological Survey and the Bureau of Mines are enclosed for your information.

Sincerely yours,

George C. Selfridge (JHB)
Chairman, Operating Committee

Approved:

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

T. P. Thayer (JHB)
Member, Geological Survey

Enclosures 4

WCAnderson:gad 10/13/53
Copy to: Admr. R. File
Docket File
Operating Committee
Dr. Bowles, 3516
Mr. Larrabee, G-232 GSA Bldg.
Mr. Houk

R.C.G. 10-15-53

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

October 8, 1953

Memorandum

To: Lawrence G. Houk, Director, Non-Metallic Minerals Division, Defense Minerals Exploration Administration

From: G. W. Josephson, Chief, Construction and Chemical Materials Branch

Subject: Docket DMEA-3170 (Asbestos)
Vernon H. Kennedy
Kennedy Mines
Pinal County, Arizona

The subject application (DMEA Docket 3170) has been reviewed in this Branch.

It appears that this is a typical Arizona asbestos occurrence which may have sufficient value to warrant an exploration loan.

I suggest that the application be referred to the field team for investigation.

G. W. Josephson

G. W. Josephson
Chief, Construction and
Chemical Materials Branch

IN REPLY REFER TO:
G-MD-CNM

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 23 1953

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

September 22, 1953

Memorandum

REVIEW OF APPLICATION DMEA-3170 (Asbestos)

To: L. G. Houk, Defense Minerals Exploration Administration
From: Donald A. Brobst, U. S. Geological Survey
Applicant's name and address: Vernon H. Kennedy, Box 1784, Miami, Arizona.
Name of property: Mountain of Mystery Nos. 1, 2, 3, 4 - Kennedy Mines.
Location of property: Pinal District, 20 miles north of Superior, Arizona -- take Castle Dome road which turns off Highway 60-70 6 miles west of Miami. Two miles from Castle Dome turn into Pinto Cr. road and follow signs to Kennedy Ranch.
Summary of applicant's proposal:
No definite proposal for operation given; but it is to last 6 months. A total of $31,850 is requested.
Sources of information on applicant's property:
The files contain no information on this property.
Comments:

1. No definite proposal is given, but the applicant is interested--some trenching and tunneling have been done.
2. Three tons already marketed, 3 tons on stockpile at mine. Grade is 1, 2, and 3; mostly grade 2.
3. A road has been built to the property at a cost of $9,000.
4. Ore lies in "serpentine, lime, and diabase background." Probably contact metamorphic deposits similar to those in neighboring Gila County.
5. We should find out whether grade is strategic then have applicant formulate a definite plan of exploration. A field examination might lead to a sound and perhaps less costly exploration contract, if the grade of ore warrants it.

RECOMMENDATION:
Refer to the field team.

Donald A. Brobst

Donald A. Brobst

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

224 New Customhouse
Denver 2, Colorado

September 17, 1953

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Field Team, Region IV

Subject: Application (Asbestos), Vernon H. Kennedy, Kennedy Mines, Pinal County, Arizona

Enclosed are four copies of an application for exploration aid for asbestos in the amount of $31,850.00. One copy of the application is being retained in this office.

W. H. King

W. H. King

A. H. Koschmann

A. H. Koschmann

Enclosure

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

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

Not to be filled in by applicant

Docket No. DMEA-3170
Metal or Mineral
Date Received 9-21-53
Estimated Cost
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: Vernon H. Kennedy, Box 1748, Miami, Arizona.

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

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

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

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

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract unpatented mining claim known as Mountain of Mystery, Nos. 1, 2, 3, and 4, located in the Pinal Mining District about 20 miles north of Superior, Arizona, Recorded in Recorder's office Pinal County, in Docket 74, Pages 357 to 360.

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

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

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property.

(*e*) If you own the land, describe any liens or encumbrances on it None

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. See No. 3

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

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

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

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

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

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

.....

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

☐ Money ☐ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated ....., 195...

.....
(Applicant)

By.....

.....

.....

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

4. (a) Road has been built from Castle Dome road to property at cost of approximately $9,000. Most of exploratory operations have been of an open pit nature exposing about 400 feet of ore bearing vein. The main cut is on a hill side and goes into the hillside a distance of approximately 40 feet. The cut is approximately 40 feet deep and 400 feet long. At present a tunnel now 30 feet deep is being cut into the open face.

Mine can be reached by taking the Castle Dome road which turns off from Highway 60-70 at a point approximately 6 miles west of Miami. At a point (2) two miles from Castle Dome, one turns on Pinto Creek road and follow signs Indicating Kennedy Ranch. All roads to property are graded and improved.

(b) Have marketed three (3) tons of fiber ore. There are now three (3) tons of ore on the dumps. The ores yield No's. 1, 2 and 3 grades with a predominance of Grade 2.

(c) The ore lies in veins in a serpentine, lime and diabase background. I wish to explore further because of the fact that all indications point to a substantial deposit. The area immediately contiguous to the working shows good indications. The ore marketed brought good returns.

(d) See (4a) for roads leading to mine. The closest shipping point is Globe, Arizona, being a distance of twenty-five (25) miles, eleven (11) of these being on paved road. The closest supply and residence point is Miami, Arizona, a distance of 19 miles.

(e) The district has a very satisfactory man power situation, with many experienced miners residing there. Materials and supplies can be had at Miami. A year long creek with a firm stream runs through the property. Power can be supplied by power plants.

5. (a) Asbestos

(b) See (4a)

(c) Work is in progress now and will be continued for six (6) months.

(d) Applicant has worked in Mines as a miner in Jerome, Bisbee, Globe (Old Dominion) and Miami (Inspiration) and has owned and operated successfully several properties. I will personally supervise operation.

6. (a) None

(b) Will employ six (6) men; 3 miners and 3 helpers at Union scales. Also employ mining engineering consultants as needed at a reasonable fee, $18,000.00.

(c) Timber - $1000.00
Powder - $ 200.00
Fuel - $2400.00
Miscellaneous Supplies $2000.00

(d) Hoist - $1000.00
Compressor $1000.00
Jack Hammer $750.00
Rr. Cars $1000.00

(e) Repairs on quarters for working men $1000.00

(f) Bins for ore $1000.00
Rails $1000.00

(g) Miscellaneous expenses and contingencies $1500.00

7. (a) Yes

(b) Both money and use of equipment.

The undersigned certifies that the information set forth in this form and accompanying papers is correct and complete, to his best knowledge and belief.

Dated this 15th day of September, 1953.

Vernon H. Kennedy
Applicant

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

October 8, 1953

Memorandum

To: Lawrence G. Houk, Director, Non-Metallic Minerals Division, Defense Minerals Exploration Administration

From: G. W. Josephson, Chief, Construction and Chemical Materials Branch

Subject: Docket DMEA-3170 (Asbestos)
Vernon H. Kennedy
Kennedy Mines
Pinal County, Arizona

The subject application (DMEA Docket 3170) has been reviewed in this Branch.

It appears that this is a typical Arizona asbestos occurrence which may have sufficient value to warrant an exploration loan.

I suggest that the application be referred to the field team for investigation.

G. W. Josephson
Chief, Construction and
Chemical Materials Branch

Copy for: Mt. Weather

Mr. Vernon H. Kennedy
Box 1748
Miami, Arizona

September 22, 1953
Subject DMEA-3170
Re: Exploration Assistance
Kennedy Mine

Dear Mr. Kennedy,

The receipt of your application dated September 15, 1953, for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-3170 and referred to the Nonmetallic Minerals Division.

Kindly refer to DMEA-3170 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS

Robert E. Adams
Chief, Operations Control
and Statistics Division

P. S.

This in in reference to our letter of September 21, 1953, the last sentance which reads 'Kindly refer to DMEA-3150' should have been 'Kindly refer to DMEA-3170'. Would you please change your records accordingly.

Thank You

Mr. Vernon H. Kennedy
Box 1748
Miami, Arizona

September 21, 1953
Subject: DMEA-3170
Re: Exploration Assistance
Kennedy Mine

Dear Mr. Kennedy,

The receipt of your application dated September 15, 1953, for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-3170 and referred to the Nonmetallic Minerals Division.

Kindly refer to DMEA-3150 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS

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

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

224 New Customhouse
Denver 2, Colorado

September 17, 1953

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Enclosure

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

224 New Customhouse
Denver 2, Colorado

September 17, 1953

Mr. Vernon H. Kennedy
P. O. Box 1748
Miami, Arizona

Dear Mr. Kennedy:

This will acknowledge receipt of your application on the Kennedy Mines located in Pinal County, Arizona. Your application has been forwarded to the Washington Office for review and assignment of a docket number.

Will you please forward to this office four copies of a map or sketch showing the relation of your proposed exploration work to the property boundaries.

Very truly yours,

W. H. King

W. H. King
Executive Officer, DMEA
Field Team, Region IV

cc SECOPERCOMM

M 03
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

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Not to be filled in by applicant

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Metal or Mineral
Date Received 9-21-53
Estimated Cost
Participation (Government %)

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

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

☐ Money ☐ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated ....., 195...

.....
(Applicant)

By.....

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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

4. (a) Road has been built from Castle Dome road to property at cost of approximately $9,000. Most of exploratory operations have been of an open pit nature exposing about 400 feet of ore bearing vein. The main cut is on a hill side and goes into the hillside a distance of approximately 40 feet. The cut is approximately 40 feet deep and 400 feet long. At present a tunnel now 30 feet deep is being cut into the open face.

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(e) The district has a very satisfactory man power situation, with many experienced miners residing there. Materials and supplies can be had at Miami. A year long creek with a firm stream runs through the property. Power can be supplied by power plants.

SEP 21 1953

5. (a) Asbestos

(b) See (4a)

(c) Work is in progress now and will be continued for six (6) months.

(d) Applicant has worked in Mines as a miner in Jerome, Bisbee, Globe (Old Dominion) and Miami (Inspiration) and has owned and operated successfully several properties. I will personally supervise operation.

6. (a) None

(b) Will employ six (6) men; 3 miners and 3 helpers at Union scales. Also employ mining engineering consultants as needed at a reasonable fee, $18,000.00.

(c) Timber - $1000.00
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(f) Bins for ore $1000.00
Rails $1000.00

(g) Miscellaneous expenses and contingencies $1500.00

7. (a) Yes

(b) Both money and use of equipment.

The undersigned certifies that the information set forth in this form and accompanying papers is correct and complete, to his best knowledge and belief.

Dated this 15th day of September, 1953.

Vernon H. Kennedy
Applicant

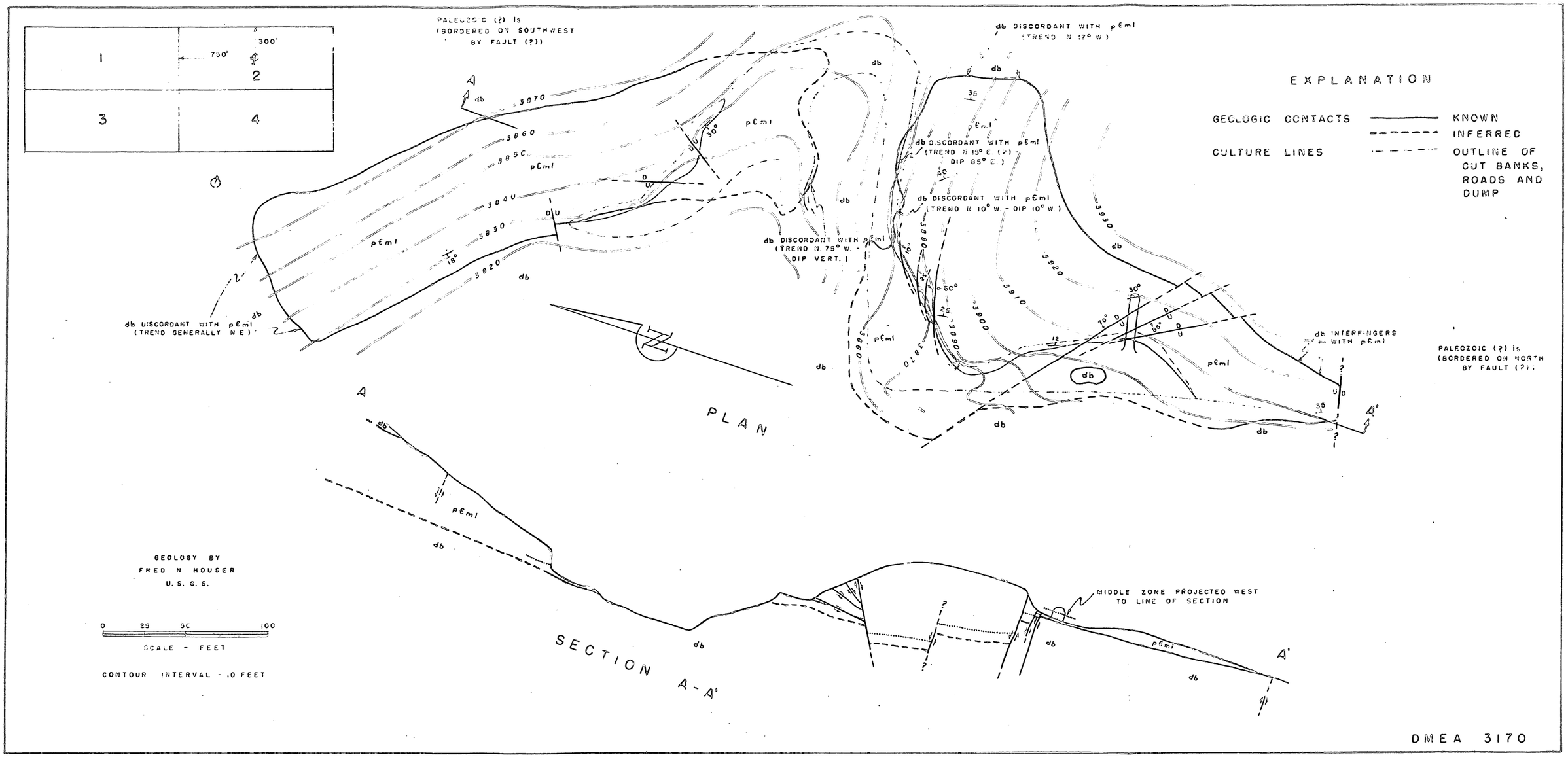


FIGURE 2. - PLAN AND SECTION OF THE MOUNTAIN OF MYSTERY CLAIM NO. 2

PINTO CREEK MINING DISTRICT PINAL COUNTY, ARIZONA

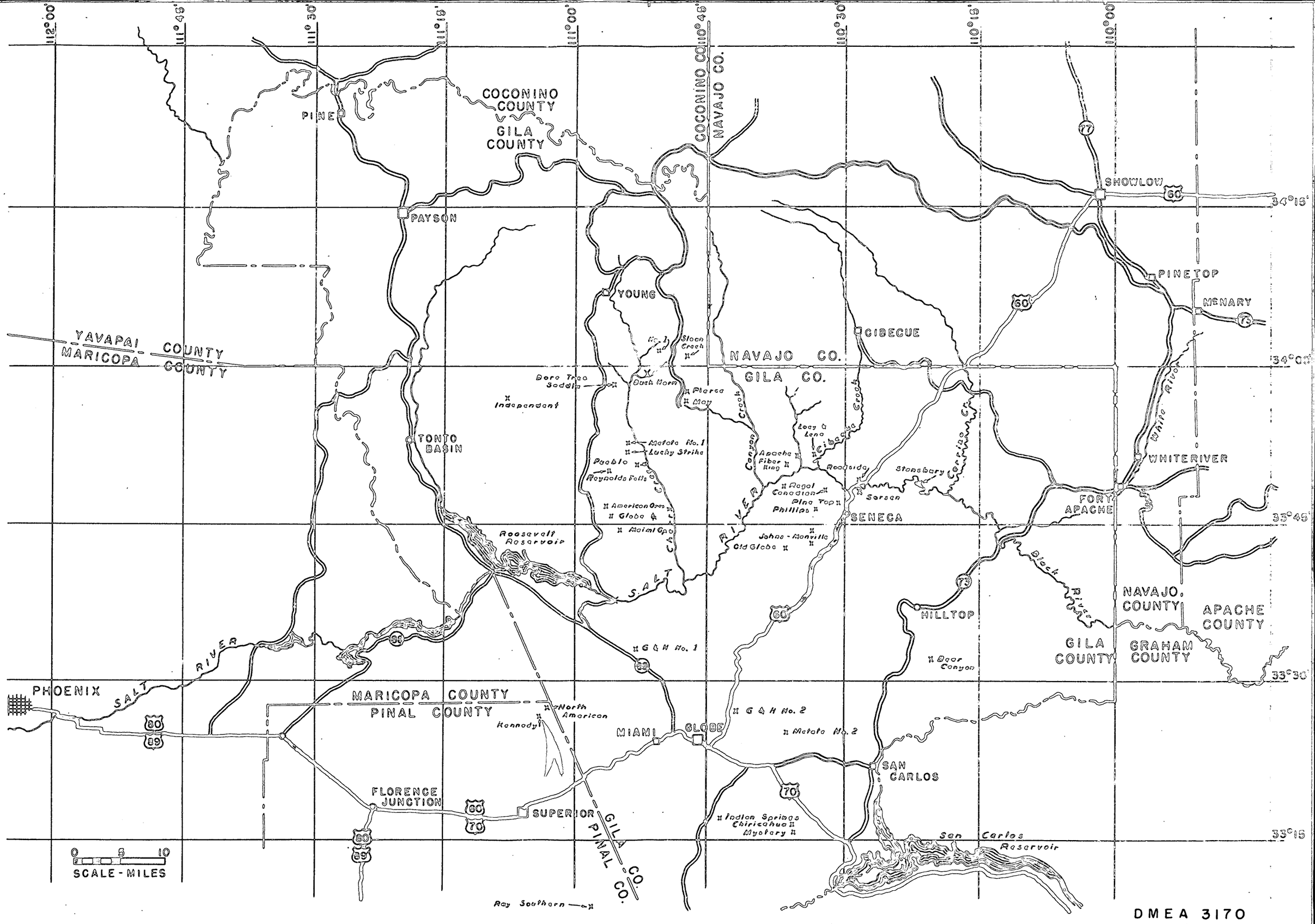
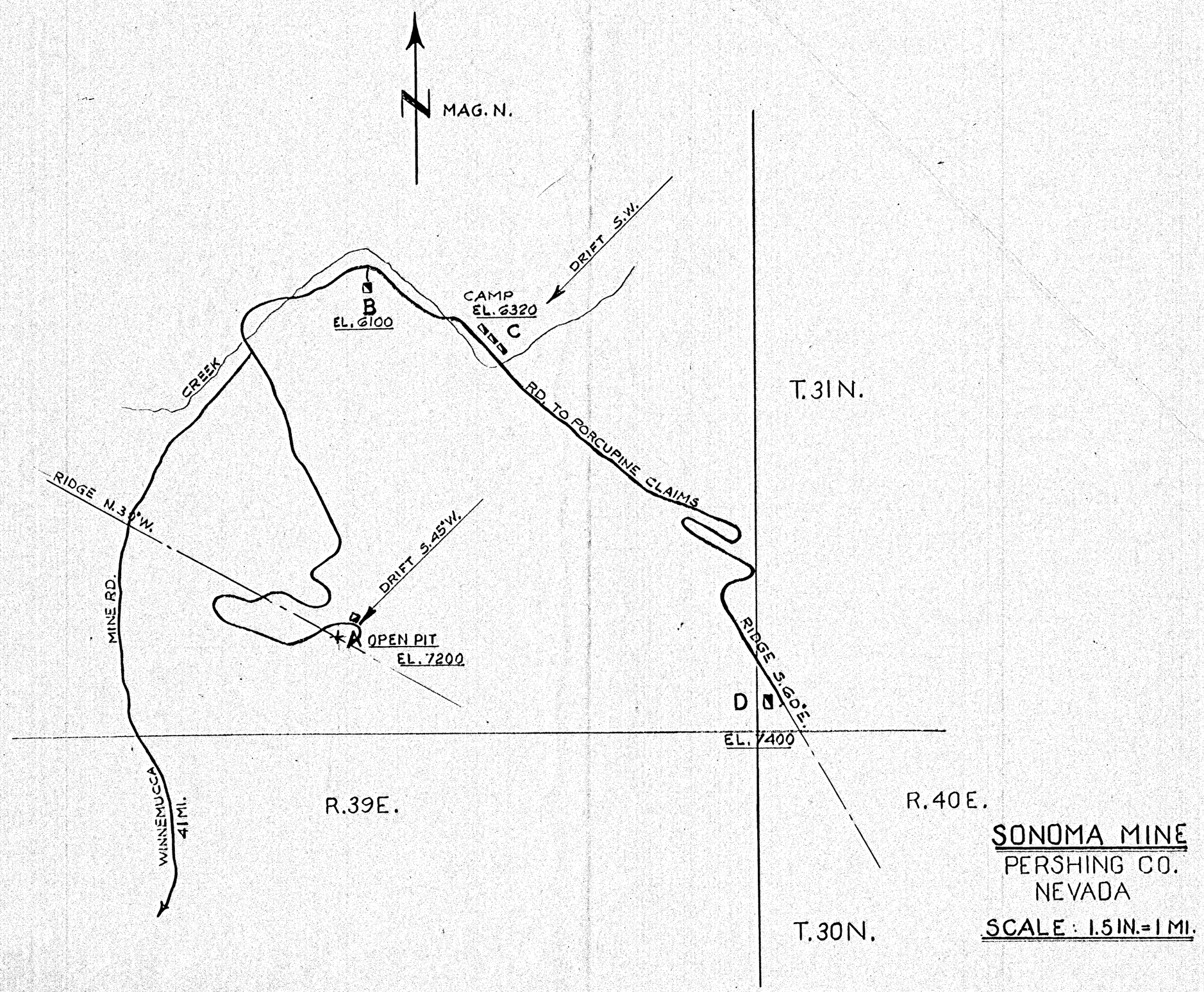


FIGURE 1. - LOCATION MAP - ASBESTOS DEPOSITS - CENTRAL ARIZONA



SONOMA MINE
PERSHING CO.
NEVADA
SCALE: 1.5 IN. = 1 MI.