CONTACT INFORMATION
Mining Records Curator
Arizona Geological Survey
1520 West Adams St.
Phoenix, AZ 85007
602-771-1601
http://www.azgs.az.gov
inquiries@azgs.az.gov

The following file is part of the

Arizona Department of Mines and Mineral Resources Mining Collection

ACCESS STATEMENT

These digitized collections are accessible for purposes of education and research. We have indicated what we know about copyright and rights of privacy, publicity, or trademark. Due to the nature of archival collections, we are not always able to identify this information. We are eager to hear from any rights owners, so that we may obtain accurate information. Upon request, we will remove material from public view while we address a rights issue.

CONSTRAINTS STATEMENT

The Arizona Geological Survey does not claim to control all rights for all materials in its collection. These rights include, but are not limited to: copyright, privacy rights, and cultural protection rights. The User hereby assumes all responsibility for obtaining any rights to use the material in excess of "fair use."

The Survey makes no intellectual property claims to the products created by individual authors in the manuscript collections, except when the author deeded those rights to the Survey or when those authors were employed by the State of Arizona and created intellectual products as a function of their official duties. The Survey does maintain property rights to the physical and digital representations of the works.

QUALITY STATEMENT

The Arizona Geological Survey is not responsible for the accuracy of the records, information, or opinions that may be contained in the files. The Survey collects, catalogs, and archives data on mineral properties regardless of its views of the veracity or accuracy of those data.

PRINTED: 02/04/2002

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: MP MICA CLAIMS

ALTERNATE NAMES:

MOHAVE COUNTY MILS NUMBER: 173A

LOCATION: TOWNSHIP 28 N RANGE 17 W SECTION 26 QUARTER S2
LATITUDE: N 35DEG 46MIN 55SEC LONGITUDE: W 114DEG 03MIN 57SEC
TOPO MAP NAME: GARNET MTN - 7.5 MIN

CURRENT STATUS: EXP PROSPECT

COMMODITY:
MICA MUSCOVITE
SILICON QUART
FELDSPAR

BIBLIOGRAPHY:
OLSON, H.C., & HINRICHS, E.N., "BERYL-BEARING PEGMATITES IN RUBY MTNS. & OTHER AREAS IN NV AND AZ", USGS BULL 1082-D P. 193-194; 1960
ADMMR MP MICA [redacted] CLAIMS FILE
KEITH, S.B, "MINERAL & WATER RESOURCES IN AZ" AZBM BULL 180, P. 345, 400, 402; 1969
USGS PP 1361, P. 138 MP MICA & LOCATION 138

12/21/90

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: MP MICA CLAIMS

ALTERNATE NAMES:

MOHAVE COUNTY MILS NUMBER: 173A

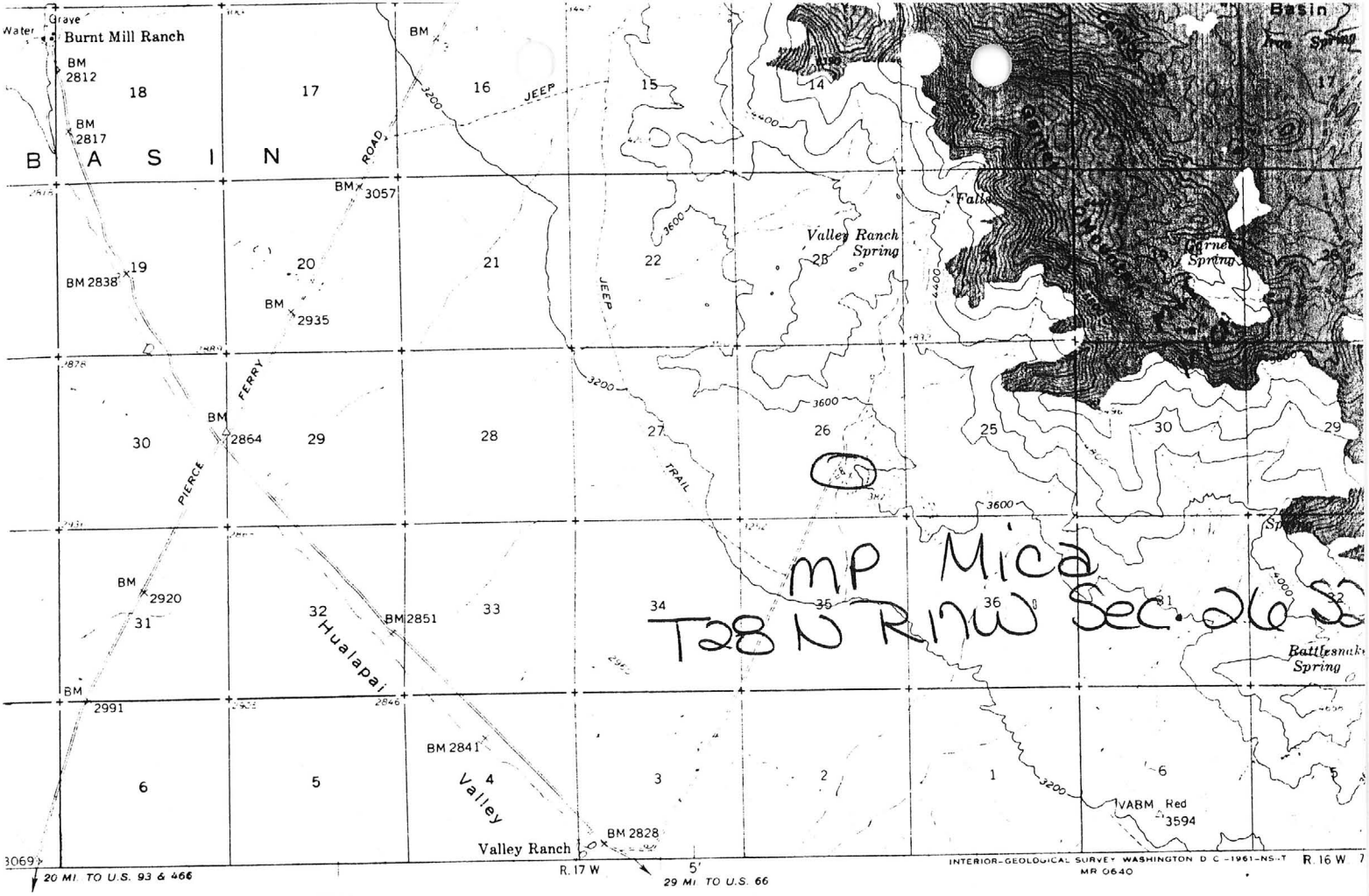
LOCATION: TOWNSHIP 28 N RANGE 17 W SECTION 26 QUARTER S2
LATITUDE: N 35DEG 46MIN 55SEC LONGITUDE: W 114DEG 03MIN 57SEC
TOPO MAP NAME: GARNET MTN - ~~15 MIN~~ 7.5

CURRENT STATUS: EXP PROSPECT

COMMODITY:
MICA MUSCOVITE
SILICON QUART
FELDSPAR

BIBLIOGRAPHY:

OLSON, H.C., & HINRICHS, E.N., "BERYL-BEARING PEGMATITES IN RUBY MTNS. & OTHER AREAS IN NV AND AZ", USGS BULL 1082-D P. 193-194; 1960
ADMMR MP MICA MINE FILE
KEITH, S.B, "MINERAL & WATER RESOURCES IN AZ" AZBM BULL 180, P. 345, 400, 402; 1969
USGS PP 1361, P. 138 MP MICA & LOCATION 138



MP Mica
T28N R17W Sec. 26

SCALE 1:62500

0 1 2 3 4 MILES

3000 6000 9000 12000 15000 18000 21000 FEET

5 0 1 2 3 4 5 KILOMETERS

CONTOUR INTERVAL 80 FEET
DOTTED LINES REPRESENT 40-FOOT CONTOURS
DATUM IS MEAN SEA LEVEL

ARIZONA
QUADRANGLE LOCATION

ROAD CLASSIFICATIO
Light-duty
Unimprov

GARNET M
N3545—W

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
E BY U. S. GEOLOGICAL SURVEY, DENVER 25, COLORADO OR WASHINGTON 25, D. C.
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

INTERIOR-GEOLOGICAL SURVEY WASHINGTON D C -1961-NS-T
MR 0640

Garnet Mtn. 15'

M.P. MICA [redacted] MOHAVE

Mrs. Pearl Craig, Kingman, hopes to operate her M.P. Mica property. She also reported to have received a number of offers for her barite property (possibly the Hopkins Claims). KAP WR 12/29/75

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
Mineral Building, Fairgrounds
PHOENIX, ARIZONA

PHOENIX, ARIZ.
APR 30
7 PM
1958

RETURNED TO WRITER

REASON CHECKED
Unclaimed ..... Refused V
Unknown .....
Insufficient address .....
Moved, Left no address .....
No such office in state .....
Do not remail in this envelope
POSTAGE DUE 2 CENTS

C. M. SISSON

BOX 26

KINGMAN, ARIZONA

NT OF MINERAL RESOURCES
State of Arizona
al Building, Fairgrounds
HOENIX, ARIZONA

PHOENIX, ARIZ.
MAY 5
8 PM
1958

RETURNED TO WRITER

REASON CHECKED
Unclaimed ..... Refused .....
Unknown .....
Insufficient address .....
Moved, Left no address .....
No such office in state .....
Do not remail in this envelope
POSTAGE DUE 2 CENTS

MAY 15 1958

Mr. John Larlow

Kingman, Arizona

ARIZONA DEPARTMENT OF MINERAL RESOURCES
MINERAL BUILDING, FAIRGROUNDS
PHOENIX, ARIZONA

April 30, 1958

To the Owner or Operator of the Arizona Mining Property named below:

M. P. MICA MINE	(Mohave County)	MICA, Sheet & Scrap
(Property)		(ore)

We have an old listing of the above property which we would like to have brought up to date.

Please fill out the enclosed Mine Owner's Report form with as complete detail as possible and attach copies of reports, maps, assay returns, shipment returns or other data which you have not sent us before and which might interest a prospective buyer in looking at the property.

Frank P. Knight

FRANK P. KNIGHT,
Director.

Enc: Mine Owner's Report

September 14, 1973.

RECONNAISSANCE GEOLOGY EXAMINATION OF MICA MINE, GARNET MOUNTAIN, MOHAVE COUNTY, ARIZONA.

As requested by Mr. Howard S. Gable, Box 946, Kansas City, Mo., a reconnaissance geology examination was made of the three(3) "MICA" claims owned by United Investors, Kingman, Arizona, on September 13, 1973. Mrs. Pearl Craig, Vice-President of United Investors accompanied to the claims, which are located 31.9 miles North of Hackberry, Arizona (on the Hackberry-Meadview road). From the mentioned road, one goes 2.9 miles to the East, to the low foothills of the Garnet Mountain (Music Mountain range) where the property is located. It might be mentioned that the Santa Fe railroad goes thru Hackberry (a shipping point). See map showing claims location which is attached.

The Mica claims are in a pegmatite formation on the side of what appears to be Pre-Cambrian quartz monsonites. The mica bearing formation is exposed by outcrops in the granitic rocks for about 500 feet, and it strikes more or less East and West. It is more or less on a horizontal plane that is down tilted on the West end. The apparent thickness is about 10 feet.

On the West extremety, the mica has been exposed for about a hundred feet by a bulldozer open cut. Apparently, an old adit was opened up. The mica is mostly Muscovite in small pods, or vugs, ranging is size from 2 inches down to sericith. Infrequently, are some books ranging up to 6 inches in diameter(but this is on the rare side). In looking at the facies of the open cut(about 9 feet high), the mica content varies from fairly rich, to very lean, as one looks to the sides. An example would be about 6 feet of fair ore, then going to a lean facies for another 6 feet, then 6 feet of richer ore, and so on. In other words, the good ore is sporadic. The mica is in both the quartz and feldspar(Potassic) matrix. Here and there are some minor pods of phlogopite. I failed to note any other pegmatic minerals such as beryl, lithium, rare earths, etc.

On the East extremety of the formation, is a shallow shaft (about 500 feet east of mentioned cut) with about the same grade of mica showing. In between , are several exploration pits.

At some time in the past, someone has mined this property on a small scale. It was probably a two(2) man operation with hand cobbing of the ore to be hauled away. There is much evidence of of cobbing and cutting of the mica.

Enroute to the mica property, on the Stockton Hill road at the Dutton abandoned ranch (about 7 miles North of Kingman), we stopped at an old water ? well to examine the same. Reputedly, this well had been blowing an unknown gas in the past. The well was found and a 10 inch casing had been capped with an iron plate and this was welded on. In the center had been affixed a 3/8" open pipe. At the time of our visit, no air or gas was coming out of the well. But to the contrary, air was rushing in the 3/8" hole thru the mentioned pipe. Obviously, this well is not producing gas, and it probably has a cavern at the bottom of its supposed 700' depth, and the air either rushes in, or out, depending on barimetric pressure changes in the atmosphere. This is a normal

condition on deep dry oil wells.

RECOMMENDATION

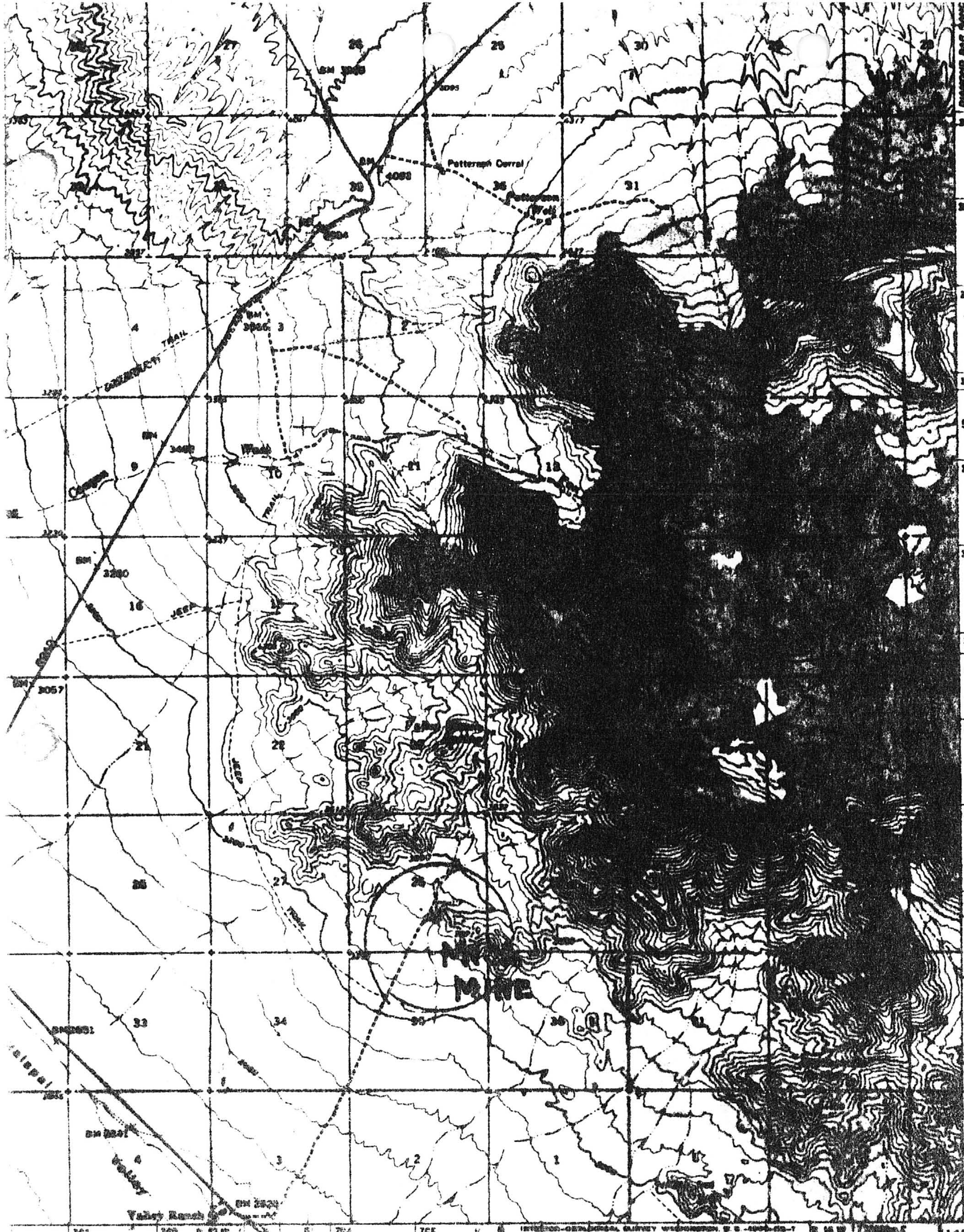
These "Mica" claims could probably produce some scrap muscovite mica, which is used as a filler and coating of roofing materials. It is also used in some rubber, plastics, paint, and wallpaper manufacturing. Most mica mines are small operations, and this property is not untypical in this respect.

Before these claims should be considered for purchase or lease, a buyer should be found for the mica (will be difficult in this area). There used to be a mica plant in Buckeye, Arizona, but I am told that this is shut down. Prices for mica are normally negeciated. The prices vary greatly, some sheet micas are worth $70.00 or more, a pound, but scrap, punch, and ground micas are worth from 10¢ a pound and up. Some mica ores sell for $30.00 to $50.00 a ton. There are no set rules on prices.

Melvin H. Jones

MELVIN H JONES
Mining geologist

Box 406
Wickenburg, Az.



To HACKBERRY AZ. 31.9 Mi.

4 MILES

ROAD CLASSIFICATION

Light-duty .... Unimproved dirt ....

ARIZONA

QUADRANGLE LOCATION

15 Minute Quad.

GARNET MTN., ARIZ.

MP Mica Cl

MELVIN H. JONES
Mining Geologist

Wickenburg, Arizona,
12 October 1976
MHJ/j.

PRELIMINARY GEOLOGICAL EVALUATION, MICA CLAIMS, GARNET MOUNTAIN, MOHAVE COUNTY, ARIZONA.

Following the instructions of Mr. Howard S. Gable, Box 946, Kansas City, Mo. 64141, the writer, accompanied by Mrs. Pearl Craig, re-examined the "Mica" claims owned by Unified Investors Corporation (Mrs. Craig is the agent), located about 53 miles North of Kingman, Arizona, on October 6, 1976. These claims are in the Garnet Mountain (Sec.26, R-16-W, T-28-N) in the Music Range, near what is known as Red Lake. This investigation does not encompass ownership status of the mentioned claims. There are three(3) mica claims according to Mrs. Craig. In the past, some mica has been shipped from the property.

On September 13, 1973, the undersigned made a reconnaissance study of these claims and a copy of this report is attached marked Exhibit B. The general content of this old report is re-affirmed with a minor change outlined below.

GEOLOGY.

Most of the pertinent geology is covered in the attached report. The host rock in which the pegmatite (with mica) is contained is now considered to be Alaskite (Pre-Cambrian).

Since the previous visit of the writer, some road building has been accomplished and two(2) new small exploration pits have been dug. See sketch, Exhibit C. All exposures show muscovite mica in varying amounts (and particle sizes). However, nothing has been done to delineate the amount of ore available by grades to ascertain if a profitable mining operation is feasible, and that there are adequate reserves for a continuous mining operation over a period of time.

Mrs. Craig pointed out a water well one (1) mile North of the mica claims. At this location is a well casing extending some inches above the surface with an iron cap welded on, with the date May 7 ,1969, painted thereon. Her thoughts are that this might be water obtainable for milling operations.

To describe the mica formation is a little difficult, as there is a lack of uniformity. Near the small adit is a facies about five (5) feet wide which contains "flake" mica, estimated to be 15% or more of the total. Then again, it thins down to what would appear to be 5% of the mass. This fine mica is in what appears to be Perthite. At the sides of the described mica (and extending for eight (8) or more feet) is a mineral which appears to be Albite which contains scattered "books" or small pods of sheet mica with diameters of four(4) inches. These books scattered sporatically at perhaps three(3) feet intervals (with no mica in between). Further exploration (drilling and pitting) will have to be accomplished to establish the mica consistancy.

Near the adit site and along the bulldozed trench (and where ore has been removed in the past), the flake mica is about eight (8) feet in depth, and its width about from five(5) to ten(10) feet.

The strike there is N. 80 deg.W and the dip is about 80 Deg. SE. Recent bulldozer work, supposedly to clean out the pit area, has only obscured the mica in place facies.

DISCUSSION.

A more detailed discussion of the types of mica on the mentioned claims, might be in order. As mentioned above, large crystals or books are in evidence. These books are on the small size sheet category and are about four(4) inches in diameter.

However, the vast bulk of the mica present is sericite, flake, or scrap mica with the smaller particle size. All the mentioned mica is in the monoclinic system, in six-sided crystals that are pseudo-hexagonal in habit.

The sheet mica is used in vacuum tubes, capacitors, and in other electrical equipment. Five(5) mesh mica is used in oil well drilling mud. Smaller particles are used in roll roofing and shingles. Most of the mica is ground down to 100 to 325 mesh where it is used in paints, acoustical plaster, lubrication, and rubber products.

In exploration and development work on mica properties, the only practical method of prospecting sheet mica is to sink trial pits in the pegmatite to see if it is rich enough to warrant development. Core drilling, the mainstay of other prospecting can be of value in outlining zonal distribution of flake, sericite, and scrap type mica. Drill holes, of course , would have to be made for careful blasting to produce pits an any category of mica. It is to be emphasized that on the scattered situation with book mica, a drill hole could miss the books continuously, by several inches

Mrs. Craig stated that her re-newed interest in the mica property is the result of having "Beacons Mineral Resources Company", of La Canada, California interested in buying the mica. She said they will pay $2.00 a pound for "scrap ?)". The factors,as to the exact type of mica desired, the FOB point, and the quantities wanted were not revealed. The feasibility of mining the mica is most certainly geared to the prices to be paid. A limited amount of "run of the mine mica" could be mined and shipped in short order.

CONCLUSIONS.

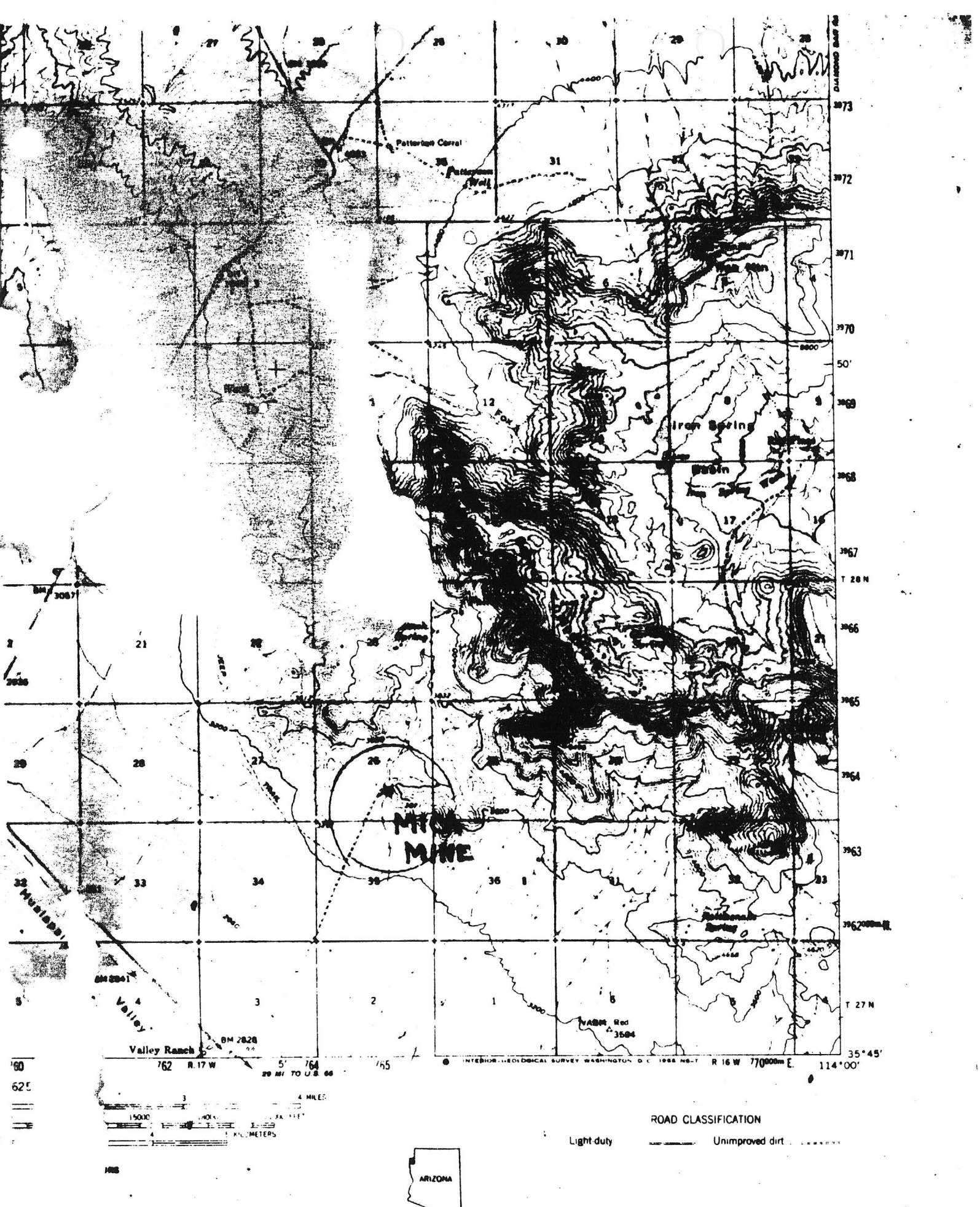
Pegmatite formationsin the State of Arizona have a reputation of being small. The mica appears to be of a good quality muscovite,and from looking at formations outcroping near the surface, several railroad car loads of good quality ore could be shipped."A number of attempts have been made to mine mica in the grand manner and none has persisted very long"."Once mica is found there is no way the richness of the deposit can be determined, except by further mining" Bates, Geology of Industrial Minerals.

Mrs. Craig states she has had one or more mining consultants on the property who state there is a million or more tons of mica on the property. This would be disputed by the undersigned, if they mean proven or estimated ore. Without many pits, drill holes and cleaning off the float from the stratum, proper estimates cannot be made. Where stratagraphic formations can be recognized, followed and measured, then inferred tonnage can sometimes be accurately extrapolated

RECOMMENDATION

If a firm mica ore buyer is found, then the quantities he he will purchase, and the amounts to be paid, should determine whether the mica claims should be placed in operation.

2. MELVIN H JONES,Mining Geologist.

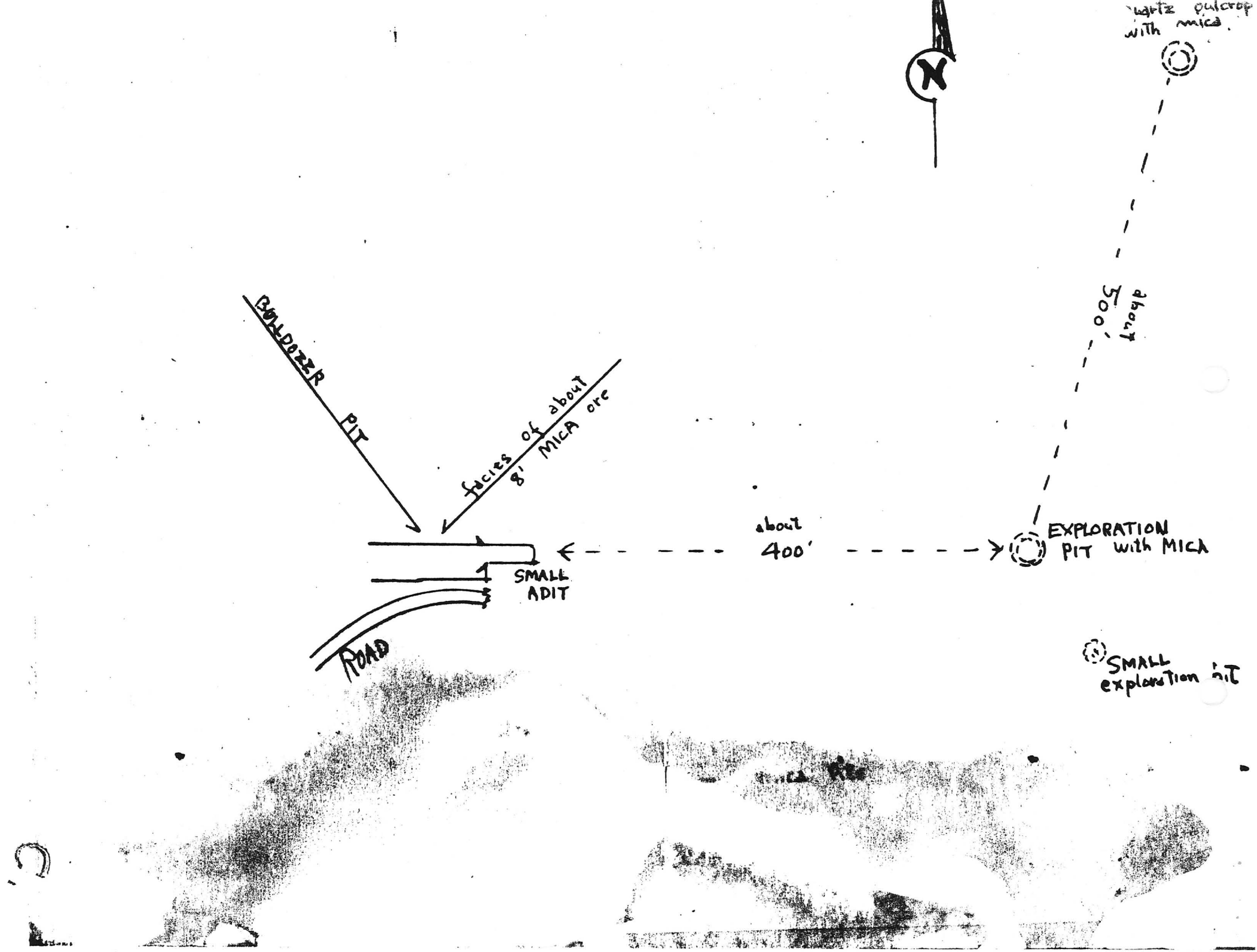


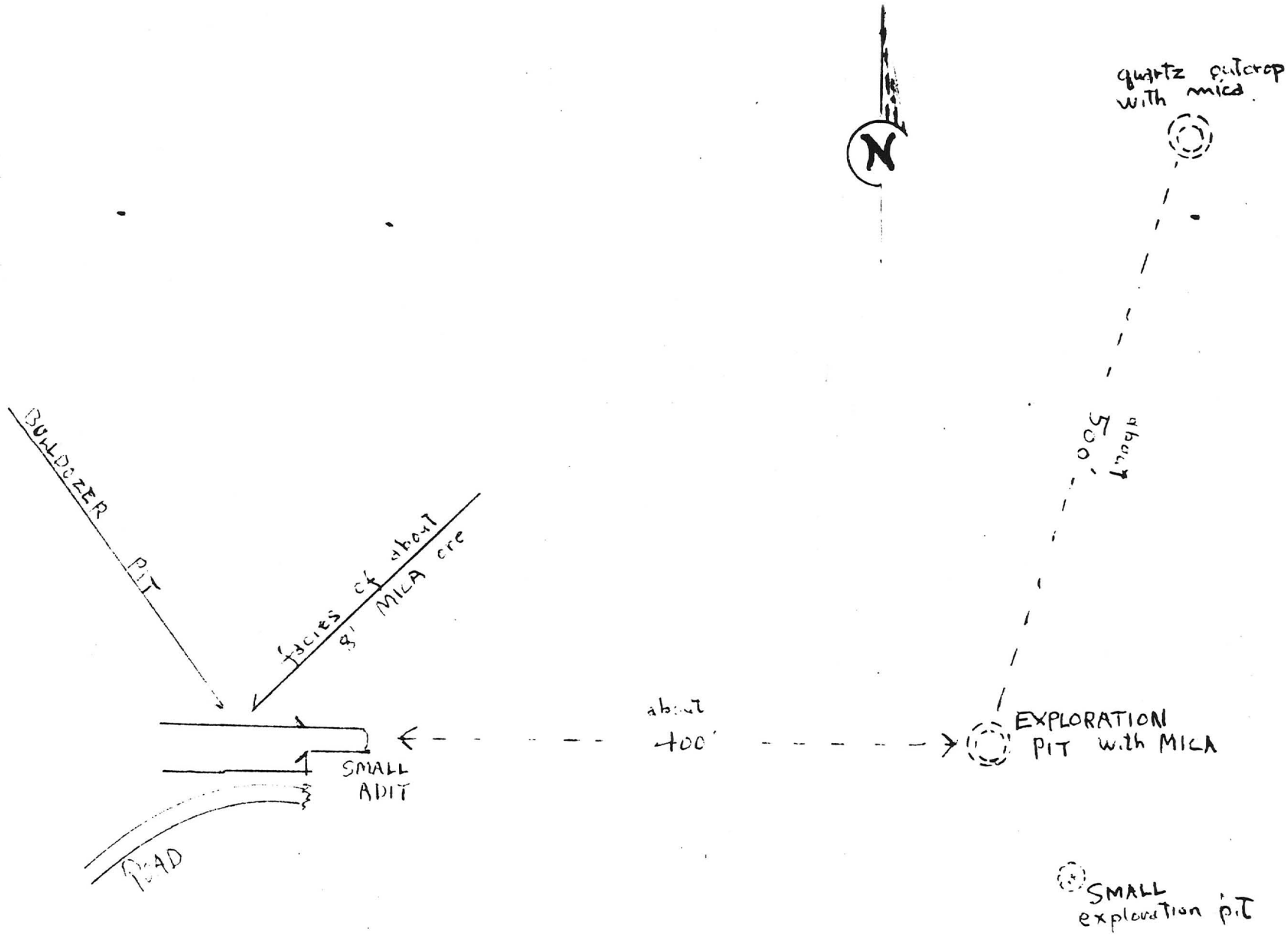
GARNET MTN., ARIZ.
N3545—W11400/15

1960

AMS 3155 I—SERIES V798

STANDARDS
WASHINGTON, D. C. 20242
AND SYMBOLS IS AVAILABLE ON REQUEST


N
quartz outcrop with mica
about 500'
EXPLORATION PIT with MICA
about 400'
BULLDOZER PIT
facies of about 8' MICA ore
SMALL ADIT
ROAD
SMALL exploration pit



SKETCH – mica pits

Date: 1-1947

Name of Mine M-P Group

Location 62 Miles N. of Kingman

Operator Sisson C. M.

Address Box 26 Kingman Arizona

Metals Produced Mica. Sheet and Scrap

Developing ☒ Shipping ☐

Financing ☐ Planning Operations Soon ☒

Idle ☐

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine M. P. Group

Date August 10, 1945

District North Music

Engineer A. C. Nebeker

Subject: Report

MINE: The property is called the M. P. Group of mica claims and consists of 6 lode claims, located along a pegmatite dike on the west foothills of Granite Mountain, and northeast of Red Lake and the northern end of Music District, Mohave County, Arizona.

The distance to the mine from Kingman via the Pearce Ferry road is 61 miles, two-thirds over an oiled highway and the balance over a good graded road, and by way of Hackberry 31 miles north up the Hualpai Valley on a good dirt road.

OWNERS: The property was located by John Larlow in 1942 and has been taken over by Mr. C. M. Sisson who with L. P. Cote and John Larlow make the company. Address, Kingman, Ariz.

WATER: Water at present is hauled from a spring about 7 miles distance, but arrangements have been made so when operations expand, water can be piped to the property.

MINERAL: The mineral is muscovite mica with a slight stain which due to the closeness to the surface is apt to be vegetable stain rather than mineral, as very little iron is seen in the dike.

The mica makes as a small part of the dike, as is a usual occurrence in mica veins. The mica in some parts of the dike is very small crystals and in other parts may be as large as 2- 10 inches. I was told that out of the present workings some books of mica were so large that it was all one man could do to lift it. I did not see such a large book.

The pegmatite dike is about 20 feet thick with a steep dip to the northeast and a strike northwest and in a granite formation. It can be traced over the surface for a 1/2 to 3/4 of a mile. The writer walked over 500 to 600 feet surface and found mica appearing at intervals over that distance. The dike consists of large pink feldspar crystals, white quartz, mica, and some garnets were observed.

PRODUCTION: The owners report that out of some of the large mica books some mica was trimmed and sent to Colonial Mica Co. for which they received $6 and $12 per pound. However, most of the mica is of the Herringbone type and only good for ground mica.

On the dump at the portal of the adit drift there is a pile of about 1-1/2 tons of material of which the small mica will make about 80% of the pile, and in a platform bin there is a good pile of sheet mica taken from the present works.

DEVELOPMENT: The only development is a short adit drift of about 30 feet, a 15 ft. winze near the portal, and two surface pits. All work is done where mica was found in the dike.

By reason of such a small amount of work done, there is no blocked out mica, so one can only conclude that by drivint the adit ahead into the mountain and the mica continues a large tonnage can be mined.

At the present stage of development it is impossible to say how many tons of dike rock will have to be mined to get one ton of mica.

Mr. Sisson informs the writer that he measured the mica from one round of holes and from 8 wheelbarrows taken out 1 wheelbarrow of mica was sorted out. The present face of the adit will not produce so much. I would estimate that the ratio will be near 1 to 20. Some rounds may show heavy with mica while others may have bery little mica. So, before one can estimate what can be produced from the dike, more work is necessary.

EQUIPMENT: There is very little equipment on the ground as work up to date has been all hand work.

CLIMATE: The climate is almost a perfect mining climate. Work can be carried on every day of the year with comfort.

MARKET: Mica buyers of Los Angeles are offering to pay $60.00 per ton for ground mica. The freight and trucking cost will average approximately $9.50 per ton.

SUGGESTIONS: I suggest the following work for testing the dike:

Extend the present face of the adit another 10 feet and then cross to both walls of the dike.
Go up the hill about 100 feet from the portal of adit and dig a trench about 4 feet deep from wall to wall across the dike, then go another 100 feet up the hill and do likewise.
From the above work take a good average sample of known weight and sort out the mica and weigh. This will give a fair idea what percentage of the dike will be mica from which data operations can be planned.

/s/ A. C. Nebeker, E. M.

DEPARTMENT OF MINERAL RESOURCES

REPORT TO OPA ON ACTIVE MINING PROJECT

Date October 4, 1944

Name of Mine M. P. Mica Mine

Owner or Operator C. M. Sisson

Address P. O. Box 26, Kingman, Ariz.

Filing Information

1 2 3 4 5 6 7 8 9 0

File System C U M B E R L A N D

File No. RR

This chart to be used for gallons of gasoline required per month.

Mine Location

PRESENT OPERATIONS: (check X)

Production X; Development X; Financing ; Sale of mine ;

Experimental (sampling) ; Owner's occasional trip ;

Other (specify)

PRODUCTION: Past and Future.

	Tons
Approx. tons last 3 months	10 Tons mica
Approx. present rate per 3 months	None - developing
Anticipated rate next 3 months	10 Tons mica
If in distant future check (X) here	

EQUIPMENT OPERATED:

Type	Quantity or Horse Power	Miles or Hours Per Month	Gallons Required Per Month Requested	Recommended
Personal Cars	1	1000 miles	66	RR
Light or Service Trucks				
Ore Hauling Trucks				
Compressors				
Other Mine or Mill Eqpt.				

PRODUCT PRODUCED OR CONTEMPLATED: Name metals or minerals.

Strategic and scrap mica

REMARKS:

ARIZONA DEPARTMENT OF MINERAL RESOURCES

By

Elgin B. Holt, Field Engineer.