



## **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](mailto: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.

01/30/87

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: INDEPENDENCE GROUP

ALTERNATE NAMES:

YAVAPAI COUNTY MILS NUMBER: 202

LOCATION: TOWNSHIP 8 N RANGE 2 W SECTION 31 QUARTER W2  
LATITUDE: N 33DEG 59MIN 41SEC LONGITUDE: W 112DEG 30MIN 49SEC  
TOPO MAP NAME: RED PICACHO - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

SILVER  
LEAD  
COPPER  
BERYLLIUM  
LITHIUM PEGMATITE  
ZINC

BIBLIOGRAPHY:

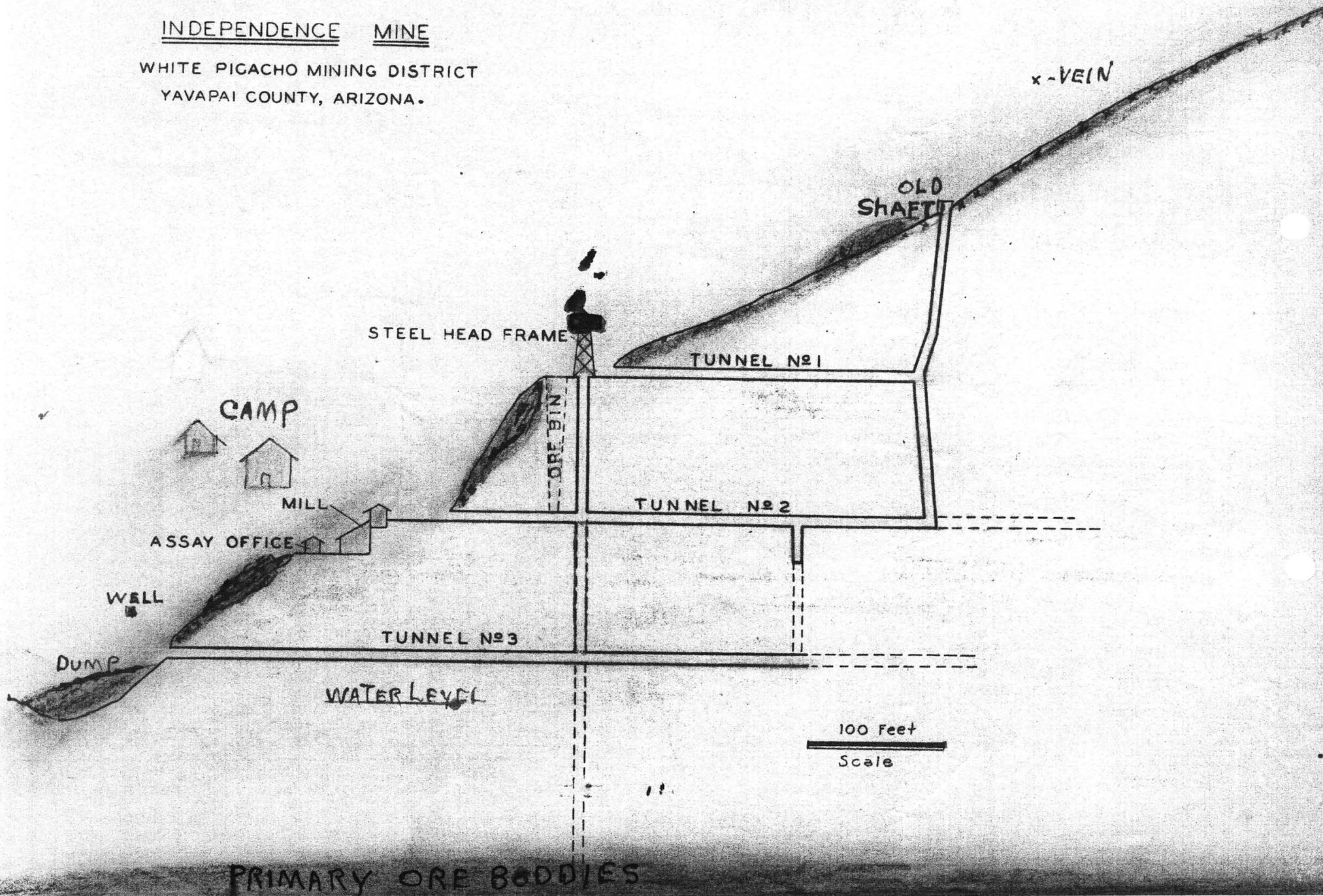
ADMMR GEOLOGY FILE - DAVID LONDON LITHIUM DEP  
ADMMR INDEPENDENCE GROUP FILE  
AZ MINING JOURNAL SEPT 1919 P 25  
JAHNS, R.H. PEGMATITE DEPTS OF WHITE PICACHO  
DIST AZBM BULL 162 1952 P 103  
USBM IC 8298 RECON OF BERYLLIUM-BEARING  
PEGMATITE DEPTS 1966 P 21  
CLAIM ALSO IN SEC. 36 T8N-R3W

*HIST. PHOTO*

*COVO.*

INDEPENDENCE MINE

WHITE PICACHO MINING DISTRICT  
YAVAPAI COUNTY, ARIZONA.

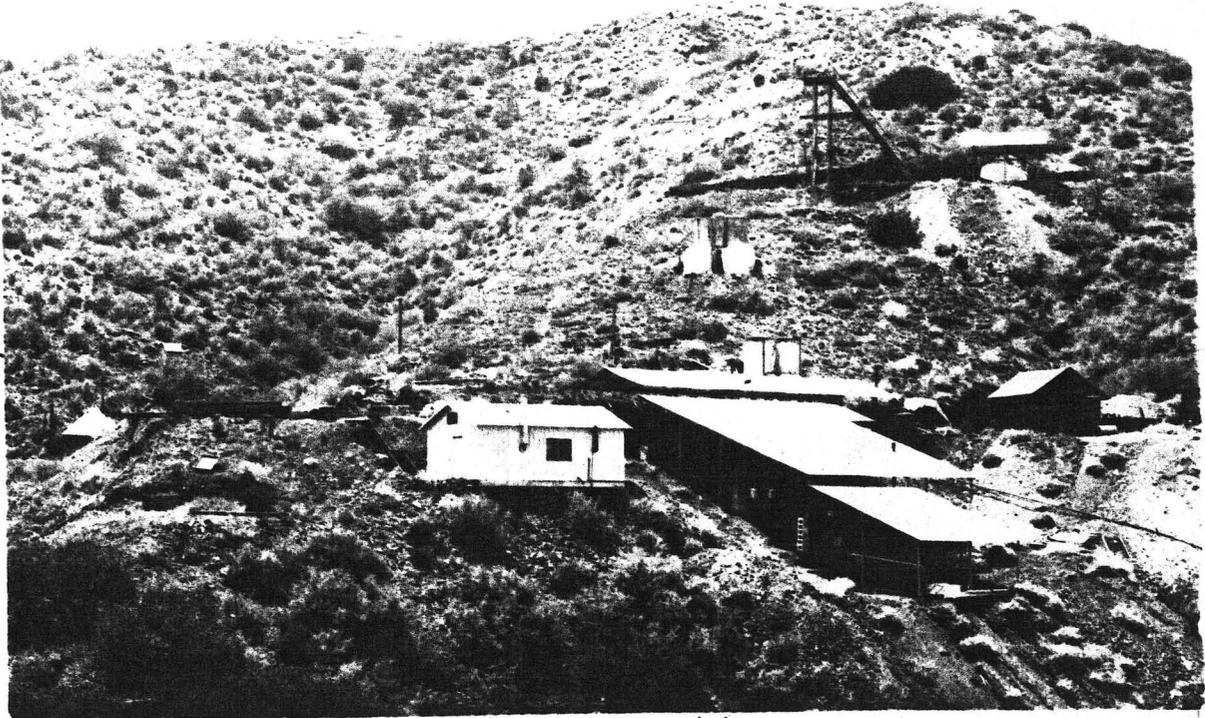


INDEPENDENCE MINE

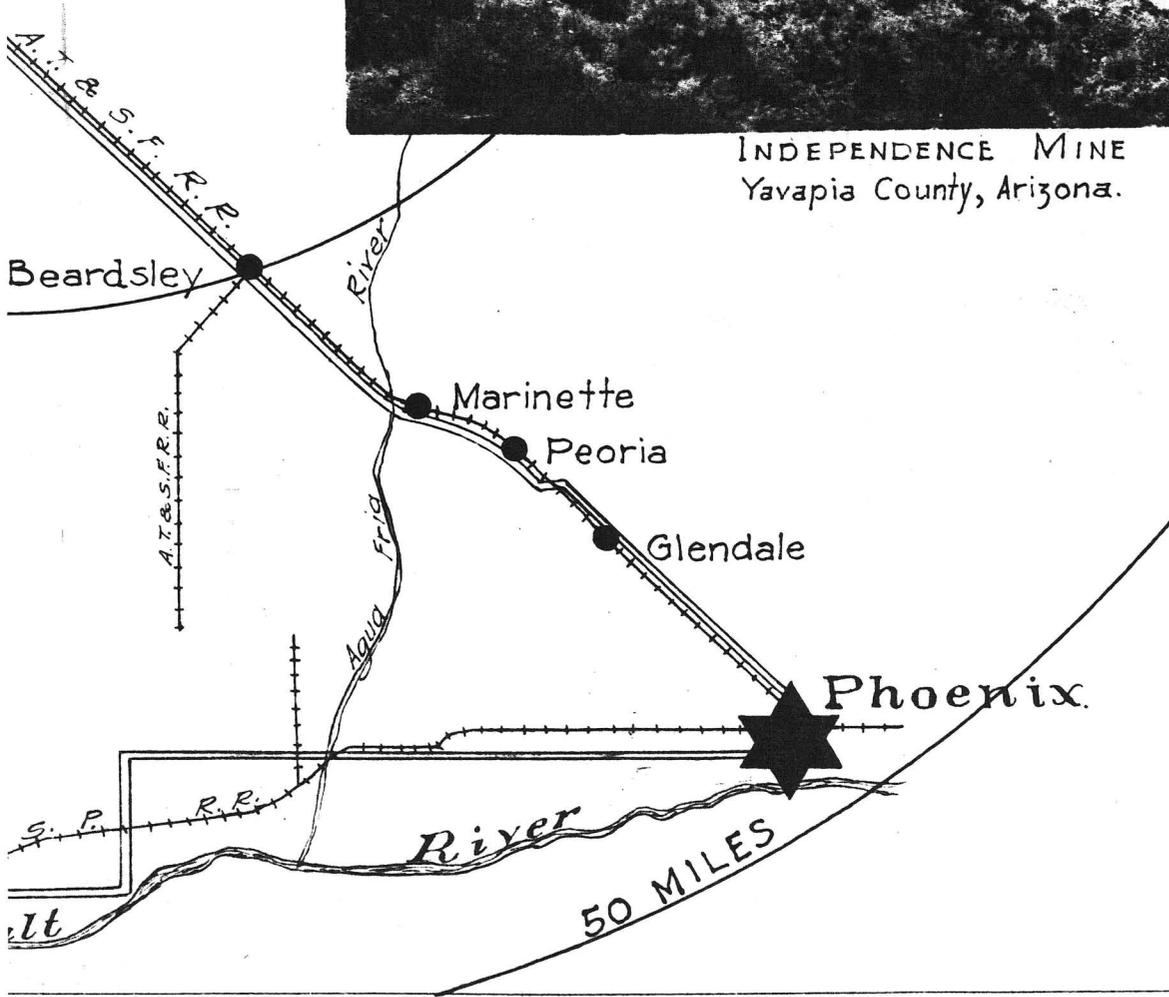
Castle Hot Spgs.

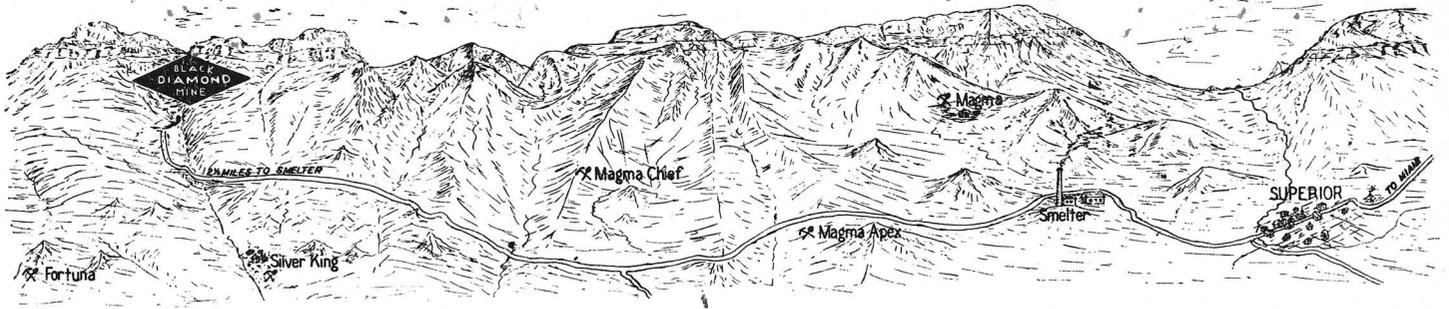
Yavapai County  
Coconino County

ES  
Wh



INDEPENDENCE MINE  
Yavapia County, Arizona.





**A. C. HAIGLER**  
**MINES -:- LANDS**  
PHOENIX, ARIZONA

Aug. 29, 1942.

Ariz. Dept. of Mineral Resources.  
J. S. Coupal, Director,  
Phoenix, Arizona.

Dear Mr. Coupal:-

Since our talk Yesterday, in reference to receiving aid from the U. S. Grazing Division for new roads and improving old ones to properties in isolated districts, I have drawn a rough map showing some of the roads in the White Picacho District.

Two or three miles of new roads to some properties would cut the haul from 25% to 50%.

The Independence group of claims is located in the rolling hills on the divide or head of Trilby Gulch, on the head of San Domingo Gulch and on a branch of the Buckhorn on the East.

The connecting roads to this group leave Castle Hot Springs road at Tipton's ranch (8) miles from the junction, then follows a wash for about (6) miles to the foothills, then over the divide to the Independence Mine on the right and the Chloridée and the old Trilby Mine on the left, and the El Oro Group on the N.E.

Any aid which the government could give us now, would facilitate the operation of small mine owners in producing the strategic metals so greatly needed for our War effort.

Yours very truly,

*A. C. Haigler*

---

ARIZONA MINES HAVE PRODUCED OVER \$2,000,000,000  
IN GOLD, SILVER, COPPER, ZINC AND OTHER MINERALS

---

INDEPENDENCE GROUP

Mr. Dunham & a partner have the old Independence mine across the gulch from the Midnight Owl. GW WR 10-26-70

AMS, Sept. 1919, p. 25

12/29/77 Office Visit. Mr. Kenneth Sprik reported that they shipped ore to Inspiration in 1972. Fourteen ton and 12-ton shipments of Copper, Lead and Silver. He and Mr. Dunham are present owners of the property. Drilled in 1976. Will do additional exploration work in 1978. JHJ/pp

---

KP/WR 1/21/80 - Mr. Leo McCulley was in looking for information on electro-winning. He has shipped a carload of ore from the Independence Mine (T8N, R2-3W, Yav. Co.) to ASARCO in El Paso. He says it assays 75 tr. oz. Ag and 1.0 tr. oz. Au. Ore is galena with minor copper mineralization in iron stained quartz.

---

RRB WR 1/22/82: Mike Quintenz, P.O. Box 7, Wittman, AZ 85361 - Message phone 388-2576 is now at the Independence Mine, T8N R2-3W, Yavapai County --- with D & M Mining Company. He reports that they have sent a sample to Hazen for evaluation and that they are now building a concrete pad for cyanidization although the ore does not appear to be amenable to cyanide treatment. He says that it is free milling. Mr. Quintenz was formerly employed at Copper Lakes.

---

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

February 24, 1958

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

INDEPENDENCE  
(Property)

COPPER  
(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

GEOLOGIC EXAMINATION

of

the

INDEPENDENCE CLAIMS

(Pegmatite Deposits)

in the

BLACK ROCK MINING DISTRICT

Yavapai County, Arizona

By

R. E. Mieritz, P. E.  
Mining Consultant  
Phoenix, Arizona

Field, August 24, 1960

Field, November 12, 1960

Report, November 17, 1960

TABLE OF CONTENTS

	<u>Page</u>
Introduction - - - - -	1
Accessibility and Location - - - - -	1
History - - - - -	2
Geology - - - - -	2
Mineralization - - - - -	3
Development - - - - -	3
Claim Survey - - - - -	4

## INTRODUCTION

As part of an overall program, a general, partial geologic field examination of the Independence mining property was completed on August 24, 25, 1960 and a rough survey of the claims position was conducted by the writer on November 12 and 14, 1960 at the request of Mr. A. C. Haigler, owner of the property.

*Trustee of a Declaration of Trust that holds title of said Property*  
Both the Geologic examination and claim survey work are incorporated in the ensuing single report.

Previous visits to the property were made on December 10, 1956 and August 6, 1957 and October 14, 1959, the latter visit to inspect some of the exploration work completed by Bob Adams of Phoenix, Arizona.

## ACCESSIBILITY & LOCATION

The Independence group of claims are reached from Phoenix by northwestward travel over paved U. S. Highway 60-70 to the Castle Springs turnoff, 42 miles northwest of Phoenix; thence 8.5 miles northeast over a well graded, County maintained road to the Trilby Wash crossing; thence north, left, 5.3 miles up Trilby Wash to the south end of the property. (See Geologic Map). It is an additional 1.4 miles north and east to the fence line at a prominent "pass" at the head of Independence Gulch.

Twentyone standard lode claims, held by right of location, are located in the west half of Sec. 31, T. 8 N., R. 2 W. and the east half of Sec. 36, T. 8 N., R. 3 W., Gila and Salt River Base and Meridian, Yavapai County, Arizona.

Claims comprising the property are:

Independence	Independence Fraction
Independence No. 1	Montezuma
Independence No. 2	Alabama
Independence No. 3	Donahue
Independence No. 4	Rolling Mary
Independence No. 5	Bron Fraction
Independence No. 6	Enterprize
Reb Fraction	Silver Bell
Gelconda	Rand
Lincoln	Adelaide
Yellow Chief	

*to* Location-wise, the early claims date back to the early ~~treaties~~ of this century and the latter claims date back to late 1952.

Elevations at the property range from 3500 to 4000 feet. Topography is rough with steep hill-sides and deep erosional canyons and washes. Cuts and trenches usually slough in from year to year because of the excessive erosion in the area. For the most part, rock is exposed everywhere. The usual mountain underbrush and cactus predominate in the area.

A small water supply as a well in the Independence Gulch where it crosses the Independence claim is the only immediate available facility or utility.

### HISTORY

The Independence claim was first located on lead-silver mineralization after the turn of the century. The present owner, Mr. A. C. Haigler obtained the property in 1924. Ore shoots are exposed in the three levels of the mine and old sample results indicate ore values for the vein to be from 10 to 85 ounces of silver and 1 to 11% lead with an occasional value of 3 ounces of gold to the ton. One carload shipment averaged .15 ounces of gold, 36.4 ounces of silver and 10.3% of lead. In 1952 and earlier, the ~~present owner~~ *Mr. Haigler* located additional claims to cover some of the pegmatic occurrences in the area which contain such metals and minerals as beryl, lithium, columbium, tantalum, feldspars, micas and rare earth minerals. Several years ago two of the original locations, Lookout and Midnite Owl, were sold to the Anderson Brothers of Phoenix, Arizona. Other claims were located on copper occurrences in the area.

### GEOLOGY

The claims lie in an area of Pre-Cambrian Schist, Granite, and Gneiss as well as Cretaceous volcanic flows of rhyolite and andesite. All three rocks of Pre-Cambrian are in evidence on the property. Andesite as dikes is also evidenced throughout the property, however, the rhyolite is only evidenced in the southern portion of the property.

No attempt was made to map the various rock types because the pegmatite mineralization is classified as being among the youngest of the Pre-Cambrian rocks in the district and rock types at the Independence would have little meaning at this point.

The principal rock type within the boundaries of the

property is the Pre-Cambrian Schist and Gneiss into which have been intruded various pegmatic dikes and masses. The general strike of the dike system is northeast for the more abundant and consistent set as contrasted to the northwest striking set.

Those pegmatic occurrences not characterized as dikes are classified as small to large blebs or pipes. The dimensions and shape of the dikes, blebs or pipes at depth would be difficult to ascertain because of the erratic geologic behavior of this type of structural feature.

### MINERALIZATION

The ground mass of the pegmatite features are white dense quartz and the feldspars, microcline and albite. The predominant lithium mineral is spodumene, with minor amounts of lepidolite and amblygonite while columbite and tantalite account for the columbium and tantalum. Bismuth in the form of bismuthite is also present. Beryl is the beryllium mineral occurring in pale shades of yellow, green and blue. Field identification of all these similar characteristic minerals is extremely difficult to all except the trained "eye".

As in most pegmatic intrusions there is zoning of the contained minerals. Zoning is locally present in most all of the individual exposures, some containing all minerals, others a mere few, but non-the-less- with some degree of zoning. Zoning is also present over the entire property or area. Those exposures east and south are predominantly composed of the ground mass minerals with some spodumene and amblygonite. Proceeding north and west, these same minerals improve in quantity as well as the new appearance of some beryl and the columbium-tantalum minerals. Those exposures on the Lincoln, Montezuma, Bron Fraction, Enterprize claims and on the Anderson claims (Lookout and Midnite Owl) contain all the previous mentioned minerals in greater quantities.

The most promising of all pegmatite exposures are thus, those which are delimited in the northwest half of the property. These occurrences contain greater quantities and more varieties of the metals and minerals of economic importance.

Each claim in its own right exposes one or more of the common minerals of gold, silver, copper, lead, beryllium, columbite, tantalum and lithium and such industrial minerals as feldspars, micas, etc.

### DEVELOPMENT

The various pegmatite dikes, blebs or pipes are geologically

inadequately developed by open cuts and trenches. Such development does not permit justified interpretations for projecting the size and shape of the mineralization at depth. The geologic conditions and characteristics present, are, however, of such importance that exploration at depth is definitely warranted.

Such exploration should take the form of fair size diameter diamond drilling at strategic locations and at such angles to intersect the targets at depths of 150 and 300 feet vertically below the outcroppings. Sampling of this type mineralization would require extreme caution and constant professional supervision with respect the core and sludge recovery and hole condition because of the hardness difference exhibited by the various minerals.

#### CLAIM SURVEY

A rough survey of the Independence claims was made by using a Brunton compass, stadia where applicable and pacing. Claim corners and/or discovery monuments of many claims of the group were "tied" to the "found" Section corners of Sec. 25,30,36,31 and 36,31,1,6 of T. 7 & 8 N., R. 2 & 3 W. and the "found" quarter corner 36,31 of T. 8 N., R. 2 & 3 W., Gila and Salt River Base and Meridian. (See claim map)

In March of 1960, Beryllium International Inc. of Washington D. C. located many claims in the area. In some instances their claims are wholly or partially in conflict with the Independence claims. Some of the discoveries of their claims are within the confines of the Independence claims, thus, not a valid discovery or claim. Other discoveries of the Company are made on open ground but parts of the standard dimensioned claim is in conflict with Independence claims, which actually merely reduces the available area of the claim for the Company.

Claims of Beryllium International Inc. have been superimposed upon the Claim Map to show the position of such claims as defined by Beryllium Internationals Claim Map of August 17, 1960. A yellow line outlines Beryllium Internationals claims in the immediate area.

Respectfully submitted,

R. E. Mieritz, P. E.  
Mining Consultant  
Phoenix, Arizona

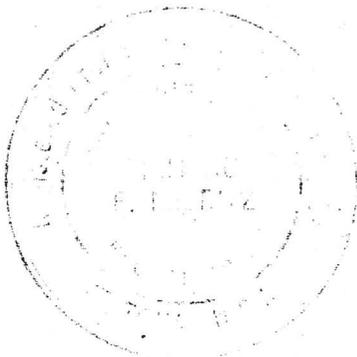
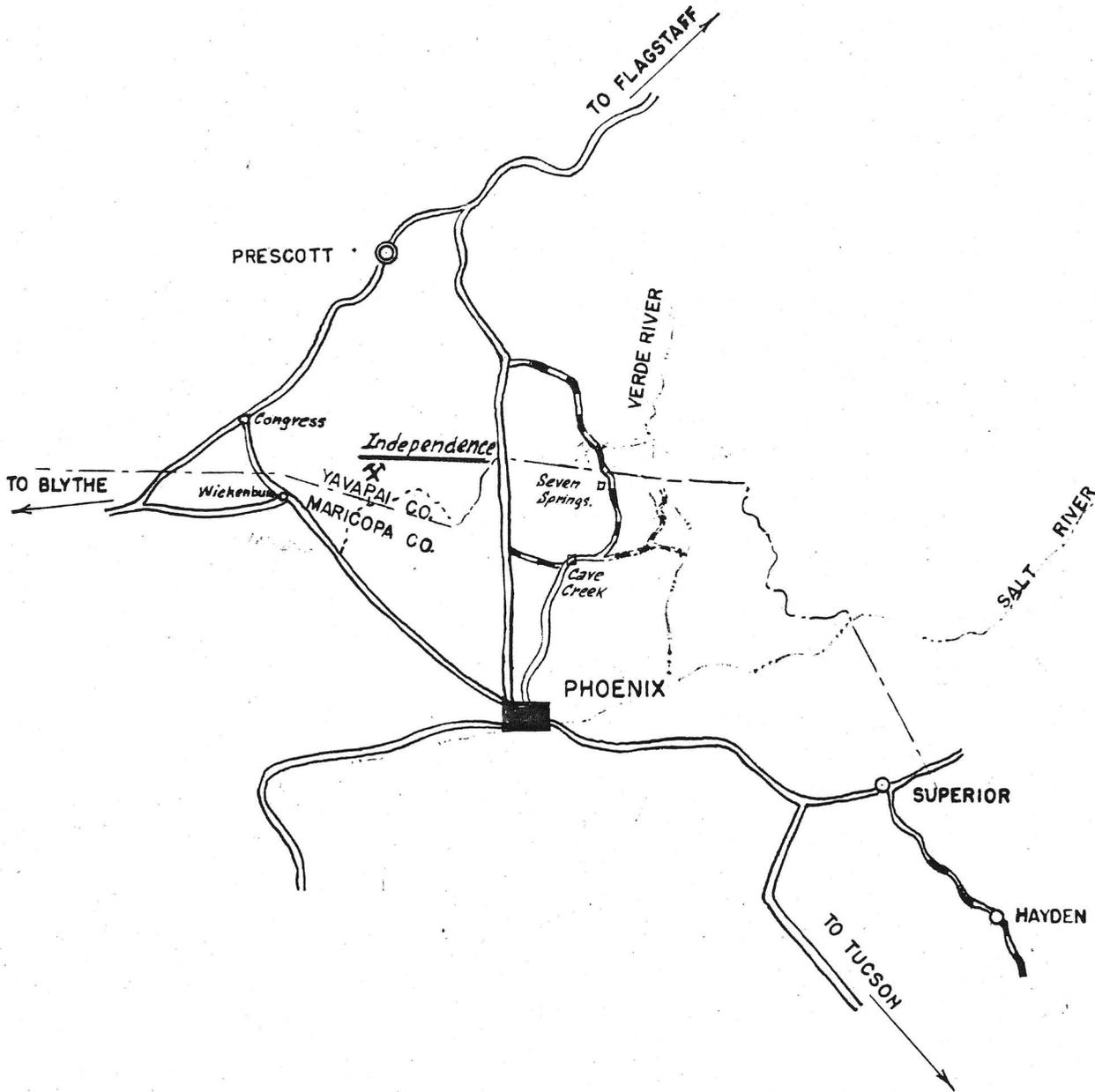
M A P S

Index Map of Central Arizona

Geologic Map of the Independence Property

Claim Map of the Independence Property  
(Beryllium International claims also.)





*Not to be reproduced or altered  
without permission.*

INDEX MAP  
OF  
CENTRAL ARIZONA

SCALE: 1" = 27 MI

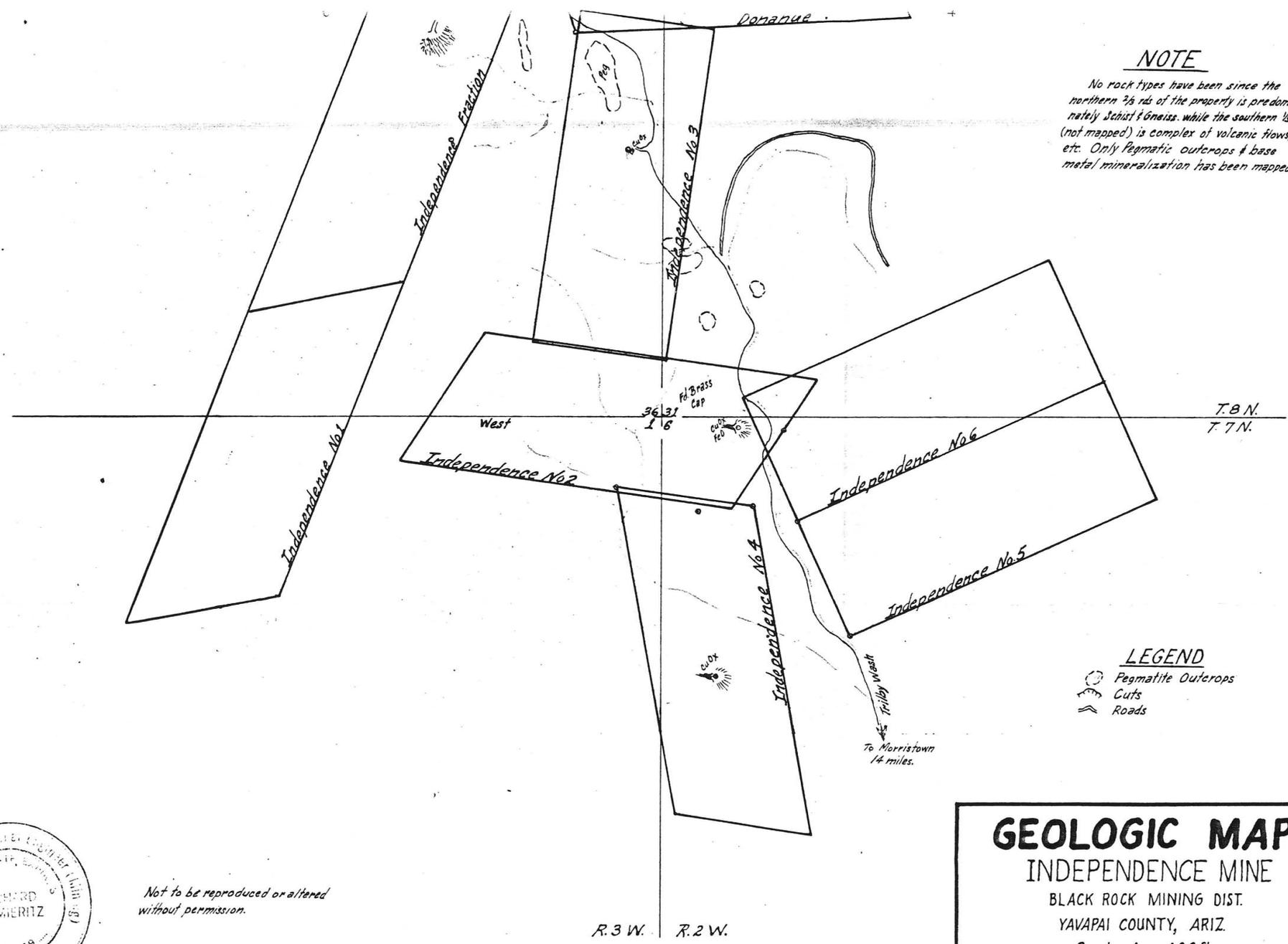
Aug., 1960

R.E. Mieritz

A-23

**NOTE**

No rock types have been since the northern 2/5 rds of the property is predomi- nately Schist & Gneiss. while the southern 1/5 (not mapped) is complex of volcanic flows, etc. Only Pegmatite outcrops & base metal mineralization has been mapped.



**LEGEND**

- Pegmatite Outcrops
- Cuts
- Roads

**GEOLOGIC MAP**

**INDEPENDENCE MINE**

BLACK ROCK MINING DIST.

YAVAPAI COUNTY, ARIZ.

Scale: 1 in = 400 ft.

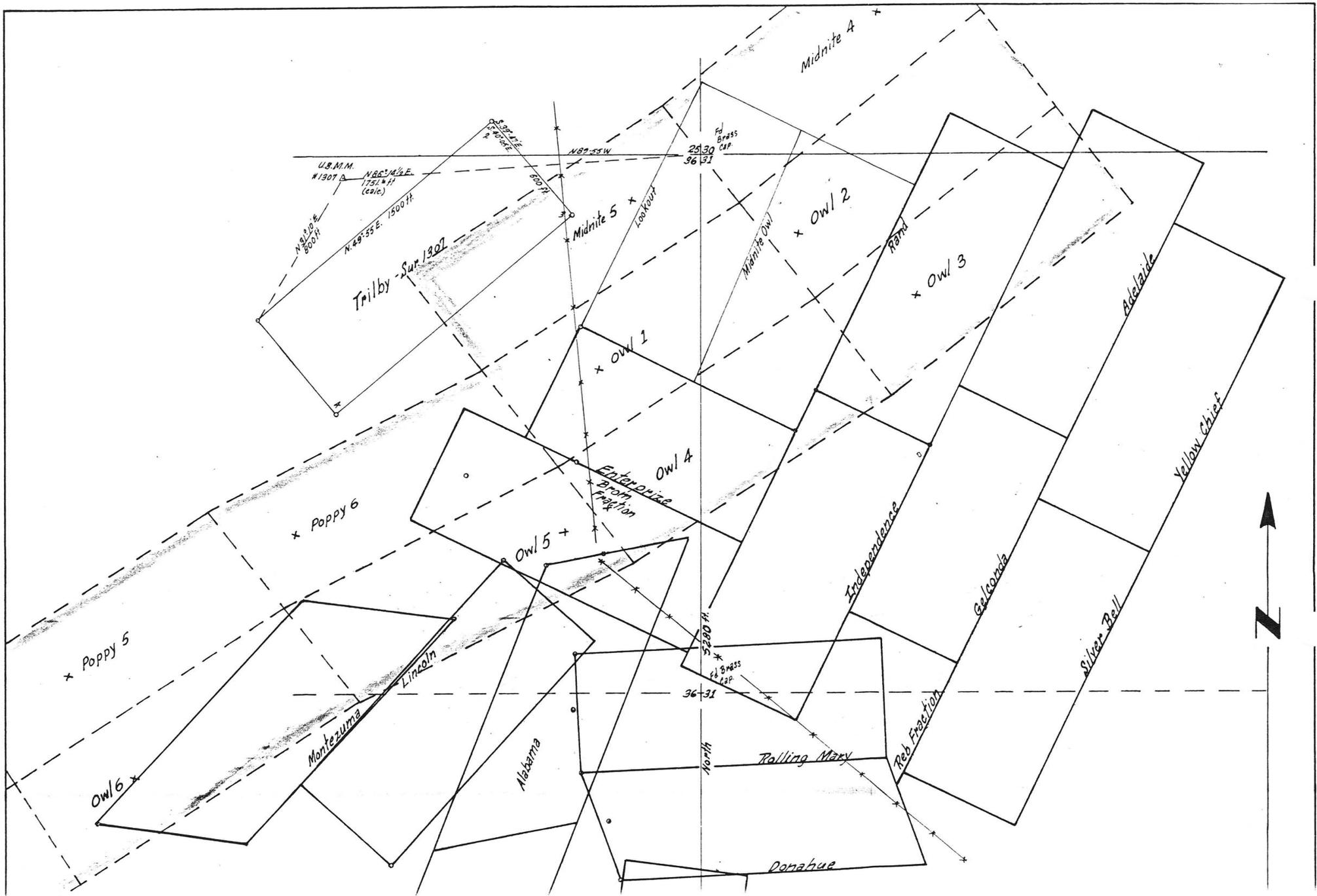
August, 1960

R.E. MERITZ



Not to be reproduced or altered without permission.

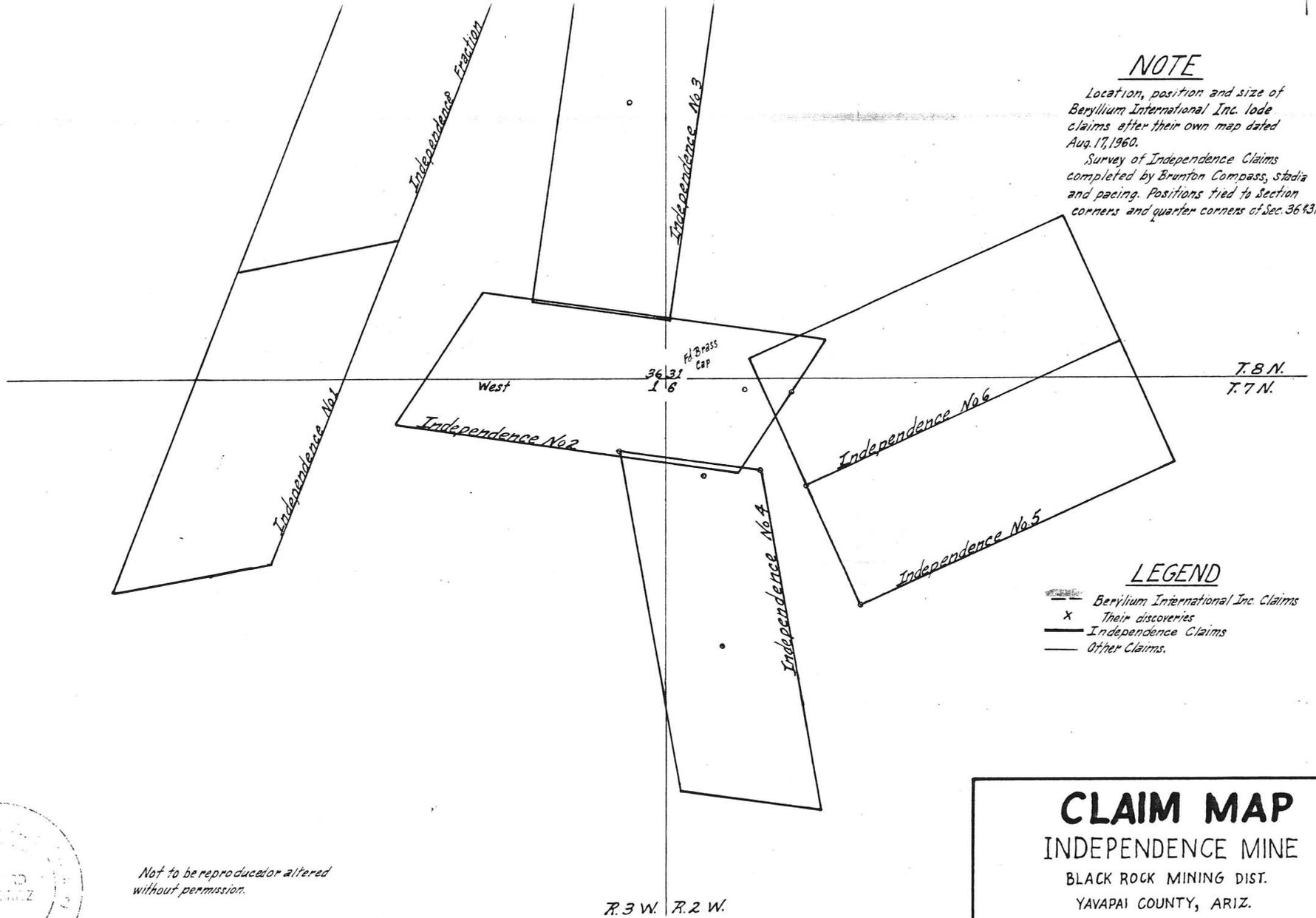
R. 3 W. R. 2 W.



NOTE

Location, position and size of Beryllium International Inc. lode claims after their own map dated Aug. 17, 1960.

Survey of Independence Claims completed by Brunton Compass, stadia and pacing. Positions tied to Section corners and quarter corners of Sec. 36 & 31.



LEGEND

- Beryllium International Inc. Claims
- Their discoveries
- Independence Claims
- Other Claims.

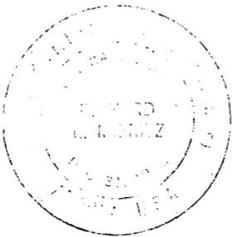
**CLAIM MAP**  
**INDEPENDENCE MINE**

BLACK ROCK MINING DIST.  
YAVAPAI COUNTY, ARIZ.

Scale: 1 in. = 400 ft.

November, 1960

R.E. MERITZ



Not to be reproduced or altered without permission.

R. 3 W. R. 2 W.

GEOLOGIC EXAMINATION  
of  
INDEPENDENCE CLAIMS  
(Pegmatite Deposits)  
in  
Yavapai County, Arizona.

By

R. E. Mieritz, P. E.  
Mining Consultant  
Phoenix, Arizona

August 9, 1957

TABLE OF CONTENTS

	<u>Page</u>
Conclusions and Recommendations-----	1
Introduction-----	1
Geology-----	2
Regional-----	2
Local-----	2
Mineralization-----	2
Development-----	3
Recommendations-----	3

## CONCLUSIONS AND RECOMMENDATIONS

Having made a brief examination of the Independence group of claims in Yavapai County, Arizona, the writer can submit the following conclusions and recommendations.

- (1) The Independence group of claims has within its boundaries upwards of eight outcropping pegmatic dikes of varying widths and lengths which all contain such economic potential minerals as spodumene, amblygonite, beryl, columbite, mica and feldspars,
- (2) the dikes and exposures are sparsely developed by surface dozing which is not sufficient to justify any reliable tonnage estimate at this time,
- (3) that the mineral contents observed in the exposures, the geologic conditions present in the area and the strength of the dike system all indicate large reserves are possible, and,
- (4) that the above conclusions definitely justify exploration of these exposures at depth by diamond drilling to determine the continuity and strength of the dikes, to determine the consistency of distribution of the economic minerals previously mentioned and to obtain sufficient material for metallurgical testing.

## INTRODUCTION

At the request of Mr. C. Haigler, owner of the property in question, the writer has made a brief examination of the

Independence property in Sec. 31, Twp. 8 N., Rge. 2 W., Gila and Slat River Base and Meridian, Yavapai County, Arizona.

The property consists of 22 lode mining claims, some of which are fractions covering "holes" in the original location of the claims. These claims are held by right of location. There is sufficient evidence of the required annual assessment work to assume the claims are currently valid and the titles in good order.

### GEOLOGY

#### Regional

The claims lie in an area of Arkean Schist, Pre-Cambrian Granite and Tertiary Volcanic Flows. All three rock types are in evidence on the property.

#### Local

The principal rock type within the boundaries of the property is the Arkean Schist into which has been intruded various pegmatic dikes and masses. The general strikes of the dike system is northeast for the more abundant and consistent set as contrasted to the northwest striking set. No attempt had been made to map the property geologically, however, such mapping is definitely a requirement prior to any future work that might be contemplated.

#### Mineralization

The pegmatic dike system is composed of two sets, the more persistent and abundant set striking northeast with vertical or near vertical dips while the complimentary set has a northwest strike and somewhat similar dip.

Regardless of direction, all dike exposures observed

contained such minerals as spodumene, amblygonite, beryl, columbite and mica in a ground mass of feldspar and quartz. Minerals such as lepidotite, bismutite and tourmaline are also present in minor amounts. No attempt had been made to determine the quantity of each mineral except by visual examination. The minerals considered as economic appear to be present in such quantities that profitable marketable products could be produced.

#### DEVELOPMENT

The various dikes are <sup>generally made up of</sup> sparsely developed by open cuts and trenches. Such development of course does not permit justified predictions. However, the geologic conditions and characteristics present are of such importance that exploration at depth is definitely warranted.

Such exploration should take the form of fair size diameter diamond drilling at strategic locations and at such angles to intersect the targets at depths of 150 and 300 feet vertically below the outcroppings. Sampling of this type mineralization would require extreme caution and constant supervision with respect the core and sludge recovery and hole condition because of the hardness difference exhibited by the various contained minerals.

#### RECOMMENDATIONS

Based on geologic conditions, there are many favorable indications that a substantial tonnage or reserve of pegmatic material containing such minerals as spodumene, amblygonite, beryl, etc, can be developed by adequate and proper exploration. Problems such as metallurgy, average mineral contents

and value of marketable products must be solved. To approach some of these problems I recommend the following steps:

- (1) Permit and require a complete geologic mapping of the property along with a detailed mineralogical study and content determinations,
- (2) Plan and complete a moderate scale drilling program, coincidental with the geologic mapping, to provide information to evaluate the mineralization at depths of 150 and 300 feet vertically below the outcrops, and
- (3) From the results obtained in steps 1 and 2, calculate the economic factors necessary for an operation and production of marketable products, including capitalization, etc.

Respectfully submitted,

R. E. Mieritz, P. E.  
Mining Consultant,  
Phoenix, Arizona

Richard E. Mieritz

MINING CONSULTANT

December 11, 1956

Dr. C. A. Farris  
1832 E. Abram Street  
Arlington, Texas

Dear Sir:

During our initial conversation, Mr. Deering requested a second letter wherein I was to include a reserve and mica content estimate of immediate available "ore" within the property limits of the Independence Group of claims in the White Picocho Mining District, Yavapai County, Arizona.

Unfortunately my findings concluded by examination of December 10th indicate the property was somewhat disappointing with respect to an immediate available tonnage of a good mica content ore. My statement in conclusion (2) of the report, -"any estimate of available tonnage would be misleading and primarily hypothetical", - is exactly the condition which we are faced with. Actually, there is no concrete data or possible sound geologic projectionable reasoning on which to base the following tonnage and mica content estimate.

The one and only partially developed mica structure is located on the southwest half of the Rand Claim. The structure is partially developed by road cuts, a pit and some trenching for a length of say 300 feet. The vertical relief over which it has been explored is not more than 50 feet and the horizontal width could be assumed as 6 feet. Geologic and mineralogic construction of the pegmatic structure would not permit more than a 100 foot projection beneath the lowest elevationwise exposure. A block of the following demensions are therefore assumed;

$$300' \times 150' \times 6' = 270,000 \text{ cuft.}$$

$$\text{Tonnage factor } 12 \text{ cuft/T} = 22,500 \text{ tons,}$$

inferred

It is my belief the entire block, including the highly concentrated mica pockets, would not average in excess of 15% mica for the block.

A reserve equal to or slightly in excess

Mr. C. A. Farris

December 11, 1956

-2-

of the calculated tonnage could be expected from three or four of the other structures but not without considerable surface work.

Thus, a reserve of approximately 50,000 tons of 15% mica content material is inferred for the property.

Respectfully submitted,

R. E. Mieritz, P. E.

Richard E. Mieritz

MINING CONSULTANT

December 10, 1956

Dr. C. A. Farris  
1832 E. Abram Street  
Arlington, Texas

Dear Sir:

At the request of your associates, Messrs Deering and Clarey and in their company I personally visited the Independence Group of claims on December 10, 1956.

Time allotted for the reconnaissance examination permits but a general affirmation of the geologic and mineralogical conditions existing within the boundaries of the claims comprising the property. These claims are located in sections 25-36, R. 3 W. and sections 30-31, R. 2 W. of T. 8 N. in the White Picacho Mining District, Yavapai County, Arizona.

The following is a brief report compiled from observed information gained during the examination and academic knowledge of the profession.

GEOLOGY

Regionally, considerable igneous activity has taken place as is evidenced by the various outcroppings of Tertiary volcanic flows, dikes, etc and by the Cretaceous granites, quartz monzonites, etc which have distorted and deformed the older Arkan Schists.

Locally, within the property, the geologic conditions are the same but herein are numerous outcroppings of pegmatic structures. Even though such outcroppings are numerous and strong, it is extremely difficult to trace any particular one for more than 300 to 400 feet. Where traceable, a N. 25° W. trend with a 60 to 70° easterly dip is indicated. For each such traceable outcropping there are several which appear on the surface as "pipes". No doubt some intercommunicable condition may be reasonable at depth but definitely is not forecasted as such within the next 200 feet or so.

MINERALIZATION

Metallic, precious and nonmetallic miner-

-2-

alization is definitely widespread throughout the property and the surrounding area. All types mineralization are associated with one or more of the various features, igneous dikes, iron gossan quartz fissures or the pegmatic structures.

Mica mineralization, our prime concern, within the property, is without question associated and confined to the pegmatic structures. Mineralwise, these structures are wholly composed of feldspar (probably sodium orthoclase), some quartz both massive and phenocryst in character, mica, spodumene, tourmalene and to a lesser degree possibly columbite, beryl and other associated rare minerals.

Inspection of many pegmatic outcrops and man made exposures indicate the mica (pearl muscovite) is, in most instances, associated with the isolated massive quartz segregations of the pegmatic structures. The mica therefore follows suit, being of a spotty and pocket like character rather than being an integral component of the pegmatic composition as would normally be assumed. For this reason it is difficult to estimate a possible reserve within a given area, much less to provide an estimate of mica content, since the content varies from 100% for a 2 foot width pocket to a trace in the "barren" portions of the structure.

#### METALLURGICAL CHARACTERISTICS

The mica observed in the outcrops and the man made cuts is of fine texture, composition and quality. The physical and chemical characteristics contributing to the fine quality are the well defined laminations, clear transparency, free of iron contamination and its ability to break free from its surrounding host rock. Only a "scrap" product can be expected since no mica of "punch" or "book quality" was observed.

#### ECONOMICS

The writer feels the information gained through the examination places the property in a category of a "prospect" which would require considerable exploration by surface trenching and diamond drilling to indicate reserves to satisfy the minimum requirements of 100,000 tons of 20% mica content. The writer also feels at this time that if such reserves could be indicated by exploration (the targets are small and widely dispersed), the underground development cost would be excessive because of the spotty concentrations of the mica.

If the associated minerals such as feldspars, spodumene, beryl, etc can be given consideration as marketable products by your milling process, a profitable operation could possibly be obtained by extracting the structures as a unit thereby accepting the mica where encountered. This however, is a metallurgical problem requiring considerable testing.

For your convenience, the following specific gravities are given as assigned in Dana's Textbook of Mineralogy.

Muscovite	2.76 to 3.00
Orthoclase	2.56 to 2.58
Spodumene	3.13 to 3.20
Tourmalene	2.98 to 3.20
Beryl	2.70

The attached spectrographic analysis is that of a character sample taken by the writer to aid in the determination of minerals present in the pegmatic structures.

### CONCLUSIONS

The writer concludes the following;

- (1) Mica is present in the pegmatic structures but in such concentrations that selective mining would be required, thus reducing a daily production rate to a minimum.
  - (2) Considering all outcrops and exposures of the mica bearing structures, any estimate of available tonnage would be misleading and primarily hypothetical.
- and
- (3) the property should be considered only if funds are available for the expensive exploration anticipated.

Respectfully submitted,

R. E. Mieritz, P. E.

SL-4-8475

Si.

Na

A

authentic

Si - m.c.

Na - 2.0 *orthoclase*

K. - 15

⊙

Be - 10005

Bo - 15

alk feldspar:

Mn - 101

Mg. 22

Pb. 102

Ka. 1008

Fe 2.0

Zn - 1008

Ca - 12

Va - 1005

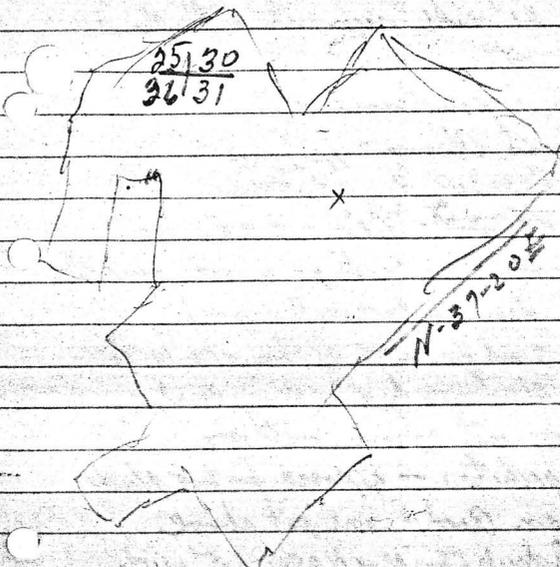
Zi. 103.

Cu. 1001

Ti. 12.

Rare Earth None!

T. 6 N, R 2-3 W.



White Picoche Dist.

Yavapai Co.

Ariz

Independence Camp.

74.7 miles

8.0 Mi.

Sample #1 Character of mica  
grad. etc.  
Sample #2 - Character of dark streak  
in road cut - mica!

Route 101 - N 15 E

at mile, generally ethereal.

Independence #2

Route 101 - N 20 W

at base of road cut.

one in 3-yd zone near middle

known first well - grade to

and zone S of this - 12' wide

area badly broken up.

remained same with gts.

white - spread for two paces

on road - one pit above

\* Outcrop - to N. 15 W - 5' wide.

same mica - some weathering

strongly.

actually same mica - mostly

± 400' long.

③ - bench - shows N. 20 W. probably

at fold. Globbs of mica - somewhat

scrap.



COMMODITY INFORMATION

COMMODITIES PRESENT C10 < A.G. W.P.B. V.C.U. W.B.E. >
ORE MINERALS C30 < SILVER, ARGENTIFEROUS GALENA, BERYL. >
COMMODITY SUBTYPES C41 < >
GEN. ANALYTICAL DATA C43 < >
COM. INFO. COMMENTS C50 < >

\* SIGNIFICANCE

PRODUCER
MAJOR PRODUCTS MAJOR < A.G. W.P.B. >
MINOR PRODUCTS MINOR < A.U. V.C.U. >
POTENTIAL PRODUCTS POTEN < B.E. >
OCCURRENCES OCCUR < >

NON-PRODUCER
MAIN COMMODITIES PRESENT C11 < >
MINOR COMMODITIES PRESENT C12 < >
OCCURRENCES OCCUR < >

\* PRODUCTION

PRODUCER
PRODUCTION YES (circle) PRODUCTION SIZE SM MED LGE (circle one)

NON-PRODUCER
PRODUCTION UND NO (circle one)

\* STATUS

EXPLORATION OR DEVELOPMENT

PRODUCER
STATUS AND ACTIVITY A20 < 4 >

NON-PRODUCER
STATUS AND ACTIVITY A20 < >

DISCOVERER L20 < >
YEAR OF DISCOVERY L10 < > NATURE OF DISCOVERY L30 < B > YEAR OF FIRST PRODUCTION L40 < 1913 > YEAR OF LAST PRODUCTION L45 < 1947 >
PRESENT/LAST OWNER A12 < >
PRESENT/LAST OPERATOR A13 < >
EXPL./DEV.COMMENTS L110 < >

DESCRIPTION OF DEPOSIT

DEPOSIT TYPE(S) C40 < VEIN >
DEPOSIT FORM/SHAPE M10 < TABULAR >
DEPTH TO TOP M20 < 600 > UNITS M21 < FT > MAXIMUM LENGTH M40 < > UNITS M41 < >
DEPTH TO BOTTOM M30 < > UNITS M31 < > MAXIMUM WIDTH M50 < > UNITS M51 < >
DEPOSIT SIZE M15 < SMALL > M15 < MEDIUM > M15 < LARGE > (circle one) MAXIMUM THICKNESS M60 < 15 > UNITS M61 < FT >
STRIKE M70 < > DIP M80 < >
DIRECTION OF PLUNGE M100 < > PLUNGE M90 < >
DEP. DESC. COMMENTS M110 < BERYLLIUM IS LIMITED CHIEFLY TO TWO PEGMATITE DIKES THAT LIE ON THE INDEPENDENCE CLAIM >

DESCRIPTION OF WORKINGS

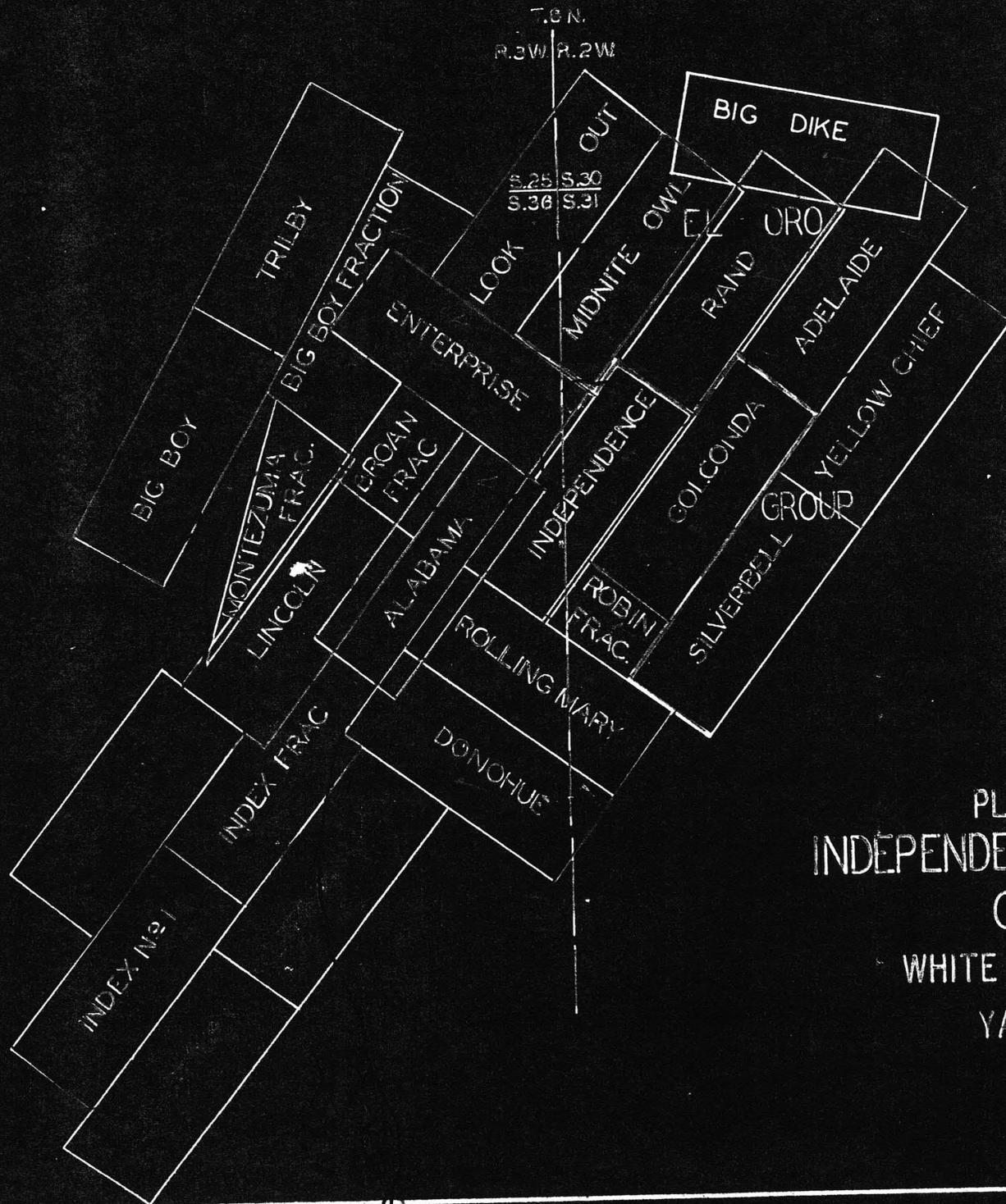
Workings are: SURFACE M120 UNDERGROUND M130 BOTH M140 (circle one) OVERALL LENGTH M190 < > UNITS M191 < >
DEPTH BELOW SURFACE M160 < 600 > UNITS M161 < FT > OVERALL WIDTH M200 < > UNITS M201 < >
LENGTH OF WORKINGS M170 < > UNITS M171 < > OVERALL AREA M210 < > UNITS M211 < >
DESC. OF WORK. COM. M220 < >

GEOLOGY

\* AGE OF HOST ROCK(S) K1 < P.R.O.T., T.E.R.T., V. UNDATED BUT PROBABLY 1750 MILLION YEARS AND OLDER; UNDATED PROBABLY PALEZOIC-MIOCENE >
\* HOST ROCK TYPE(S) K1A < AMPHIBOLITE, PEGMATITE, QUARTZ-MICA SCHIST, RHYOLITE, ANDESITE >
\* AGE OF IGNEOUS ROCK(S) K2 < P.R.O.T., T.E.R.T., V. AS LINE K1 >
\* IGNEOUS ROCK TYPE(S) K2A < PEGMATITE, RHYOLITE, ANDESITE (?) >
\* AGE OF MINERALIZATION K3 < P.A.E.L.D.-M.I.O. V. UNDATED PROBABLY MID- TERTIARY >
\* PERT. MINERALS (NOT ORE) K4 < QUARTZ >
\* ORE CONTROL/LOCUS K5 < FULTING, SHEARING, IGNEOUS ACTIVITY- DIKES >
\* MAJ. REG. TRENDS/STRUCT. N5 < FOLIATION IN PRECAMBRIAN SCHIST AND GNEISS TRENDS N25E TO N65E >
\* TECTONIC SETTING N15 < >
\* SIGNIFICANT LOCAL STRUCT. N70 < VEINS (AND GENETICALLY RELATED (?) DIKES) TREND N10W TO N40W AND CROSSCUT PRECAMBRIAN FABRIC >
\* SIGNIFICANT ALTERATION N75 < NONE >
\* PROCESS OF CONC./ENRICH. N80 < OXIDATION AT NEAR SURFACE >
\* FORMATION AGE N30 < P.R.O.T., V. UNDATED, PROBABLY 1750 MILLION YEARS OR OLDER >
\* FORMATION NAME N30A < UNNAMED GNEISS, SCHIST >
\* SECOND FM AGE N35 < >
\* SECOND FM NAME N35A < >
\* IGNEOUS UNIT AGE N50 < P.R.O.T., V. AS LINE N30 >
\* IGNEOUS UNIT NAME N50A < UNNAMED PEGMATITE, GRANITE >
\* SECOND IG. UNIT AGE N55 < P.A.E.L.D.-M.I.O. V. UNDATED, PROBABLY MID- TERTIARY >
\* SECOND IG. UNIT NAME N55A < UNNAMED RHYOLITE, ANDESITE (?) DIKES >
\* GEOLOGY COMMENTS N85 < DEPOSIT IS HIGH-ANGLE QUARTZ VEIN WHICH IS ASSOCIATED WITH RHYOLITE OR ANDESITE DIKES OF PROBABLE MID- TERTIARY AGE THAT CUT PRECAMBRIAN IGNEOUS AND METAMORPHIC ROCKS. >

GENERAL COMMENTS

GENERAL COMMENTS GEN < >



PLAT OF CLAIMS  
 INDEPENDENCE & ADJOINING  
 GROUPS  
 WHITE PICACHO DISTRICT  
 YAVAPAI COUNTY  
 ARIZONA

# DEPARTMENT OF MINERAL RESOURCES

## REPORT TO OPA ON ACTIVE MINING PROJECT

Date..... 3 5/6 /45  
 Name of Mine..... Independence  
 Owner or Operator..... OE Edwards  
 Address..... Mariontown Ariz.  
 Mine Location..... East from Weckertburg

**Filing Information**

File System.....  
 File No.....  
 This chart to be used for gallons of gasoline required per month.

**PRESENT OPERATIONS:** (check X)

Production.....; Development .....; Financing.....; Sale of mine.....;  
 Experimental (sampling).....; Owner's occasional trip.....;  
 Other (specify)..... Road work.....

**PRODUCTION: Past and Future.**

Tons

Approx. tons last 3 months .....  
 Approx. present rate per 3 months .....  
 Anticipated rate next 3 months .....  
 If in distant future check (X) here .....

**EQUIPMENT OPERATED:**

Type	Quantity or Horse Power	Miles or Hours Per Month	Gallons Required Per Month
Personal Cars	<u>1</u>	<u>150</u>	<u>30</u>
Light or Service Trucks	.....	.....	.....
Ore Hauling Trucks	.....	.....	.....
Compressors	<u>35HP</u>	<u>Varris</u>	<u>100</u>
Other Mine or Mill Eqpt.	.....	.....	.....

**PRODUCT PRODUCED OR CONTEMPLATED:** Name metals or minerals.

Copper

**REMARKS:**

owner operator wishes to fix road and resume operations. Recommended

# DEPARTMENT OF MINERAL RESOURCES

## REPORT TO OPA ON ACTIVE MINING PROJECT

DEPT. MINERAL RESOURCES  
**RECEIVED**  
JUN 11 1945  
Filing Information AS1-02A

Date Feb 23-45  
 Name of Mine Indiv. Mine  
 Owner or Operator Fred Jensen  
 Address Box 271 Wickburg  
 Mine Location 30 mi out from Wickburg 16 mi N E Upresstown

File System.....  
 File No.....  
 This chart to be used for gallons of gasoline required per month.

**PRESENT OPERATIONS:** (check X)

Production ; Development ; Financing.....; Sale of mine.....;  
 Experimental (sampling).....; Owner's occasional trip.....;  
 Other (specify).....

**PRODUCTION: Past and Future.**

Tons

Approx. tons last 3 months .....  
 Approx. present rate per 3 months .....  
 Anticipated rate next 3 months .....  
 If in distant future check (X) here .....

**EQUIPMENT OPERATED:**

Type	Quantity or Horse Power	Miles or Hours Per Month	Gallons Required Per Month <i>Quarter</i>
Personal Cars	.....	.....	.....
Light or Service Trucks	.....	.....	.....
Ore Hauling Trucks	.....	.....	.....
Compressors <i>Engine</i>	90	.....	150
Other Mine or Mill Eqpt. <i> pumps</i>	5	.....	15

**PRODUCT PRODUCED OR CONTEMPLATED:** Name metals or minerals.

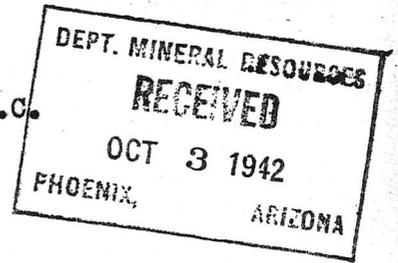
Lead, Silver

**REMARKS:**

Was out to this property recently found no Jensen producing lead ore.  
Application Approved

By A.C. Hebecker

Washington, D.C.  
Oct. 1, 1942



SUBJECT: Mine Loans  
Class B  
Independence Group  
A. C. Haigler

A field report on this mine is being authorized.

Bill Broadgate

Washington, D.C.  
Sept. 19, 1942

SUBJECT: Class B Mine Loan  
  \ Independence Group  
  t A. C. Haigler



Following up the inquiry of Sept. 4th.

This application is today being examined to determine its eligibility for field examination.

*Bill*  
Bill Broadgate

DEPT. MINERAL RESOURCES  
RECEIVED  
SEP 11 1942  
PHOENIX, ARIZONA

Washington, D.C.  
Sept. 9, 1942

SUBJECT: Class B Loan  
    \ Independence Group  
    \ A. C. Haigler

I certainly wish these birds would tell the truth.

The information sent to me is that this loan was placed several weeks ago (date of memo the 4th) and no acknowledgement.

Actually, this application landed in Washington Aug. 27th, and an acknowledgement was sent out.

Even I, perpetually worrying the RFC on timing, could not complain about this not having been treated with yet.

If I remember the property, its not so hot anyway.

*Bill*

Bill Broadgate

CLASS "B" LOAN  
SUBJECT: Independence Group  
A. C. Haigler

September 4, 1942

Dear Bill:

Will you see if you can find out anything about the Class "B" loan applied for by A. C. Haigler on the Independence Group 14 miles north of Morrystown, Maricopa County, Arizona?

Haigler said he sent in his application several weeks ago but has not received an acknowledgment.

Thanking you for any information you can give us regarding this, I am

Yours very truly,

CHARLES F. WILLIS, Chairman  
Board of Governors

CFW:MH

NAME OF MINE: INDEPENDENCE		COUNTY: <sup>Yavapai</sup> MARICOPA
(17 miles E. of Morristown)		DISTRICT:
Owner: E.C. Hager Phoenix		METALS: Ag.
OPERATOR AND ADDRESS:		MINE STATUS
DATE:	DATE:	
6/21/44	Box 271, Wickenburg Fred Jensen, Morristown & O. E. Edwards, Morristown	6/21/44 Shipping to Wickenburg Ore Market.
11/46	unclaimed at Wickenburg	

C.H. Orin -

You ought to have a sketch map of claims, and on larger scale the workings - showing where samples taken.

J. Campbell

W.B.H.

letter from  
angles on

E.D. Miller  
Quercus -

Prescott & others in  
the area.

A comprehensive road  
project is needed  
in this area

922

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

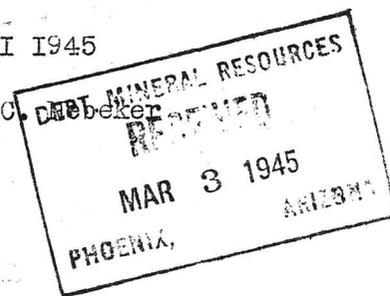
Mine Independence

Date Feb 21 1945

District White Pacachio Arizona

Engineer A. C. Nebeker

Subject: Report on operations. Mine visited Feb. 21st.



Owner, <sup>owner</sup> E. C. Hager, of Phoenix.

Operator, Fred Jensen, who has a lease on the property as long as he wishes to keep moving. Mr Jensen's address Box 271 Wickenburg, Ariz.

Metal produced Lead-silver-copper. Pb. 2% to 10%, Silver 30 Ozs, Copper 1%  
The production rate is from 5 to 15 tons per month. The ore is sold to the Wickenburg Ore Market.

Two Men working.

Development; There has been considerable work done on this property, consisting of an incline shaft 450 feet, three tunnels two of these over 500 feet in, and connection by raises and winzes. Mr Jensen works ~~through~~ through the middle and lower tunnels.

The vein is 6 inches to 1 1/2 feet thick and has a dip of 60 degrees N.W.  
The vein is a quartz vein in walls of schists.

Equipment:

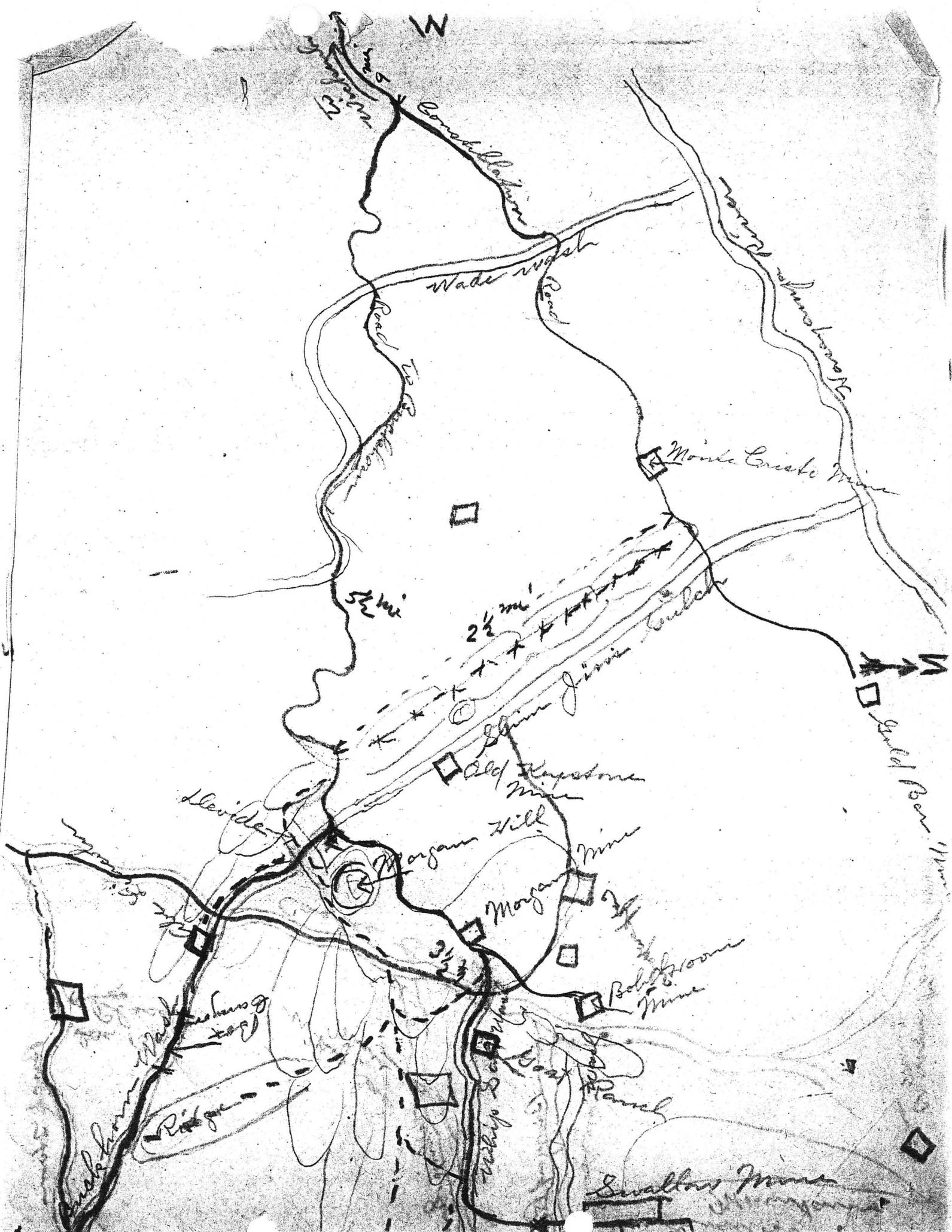
The equipment consists of a one drill D.G. compressor, 90HP Chrysler motor engine, 5 HP F.M. engine on a triplex pump. two Jackhammers. one stoper one new rubber wheel wheelborrow, shop and bunkhouse.

Roads; Roads to the property are in good shape. It is 50 miles from Wickenburg via Morristown to the mine.

Remarks:

Mr Jensen can make a little profit out of this mine, due to the fact the vein has been blocked out on three sides and his job is just to stope it, but one could not afford to spend money to prospect and develop for more ore.

A. C. Nebeker Field Engineer



W

N

6 mi

Wade wash

Swallow Mine

Road to Buckhorn

Monte Cristo Mine

5 1/2 mi

2 1/2 mi

Shim Jimmie Gulch

Old Keystone Mine

Morgan Hill

Morgan Mine

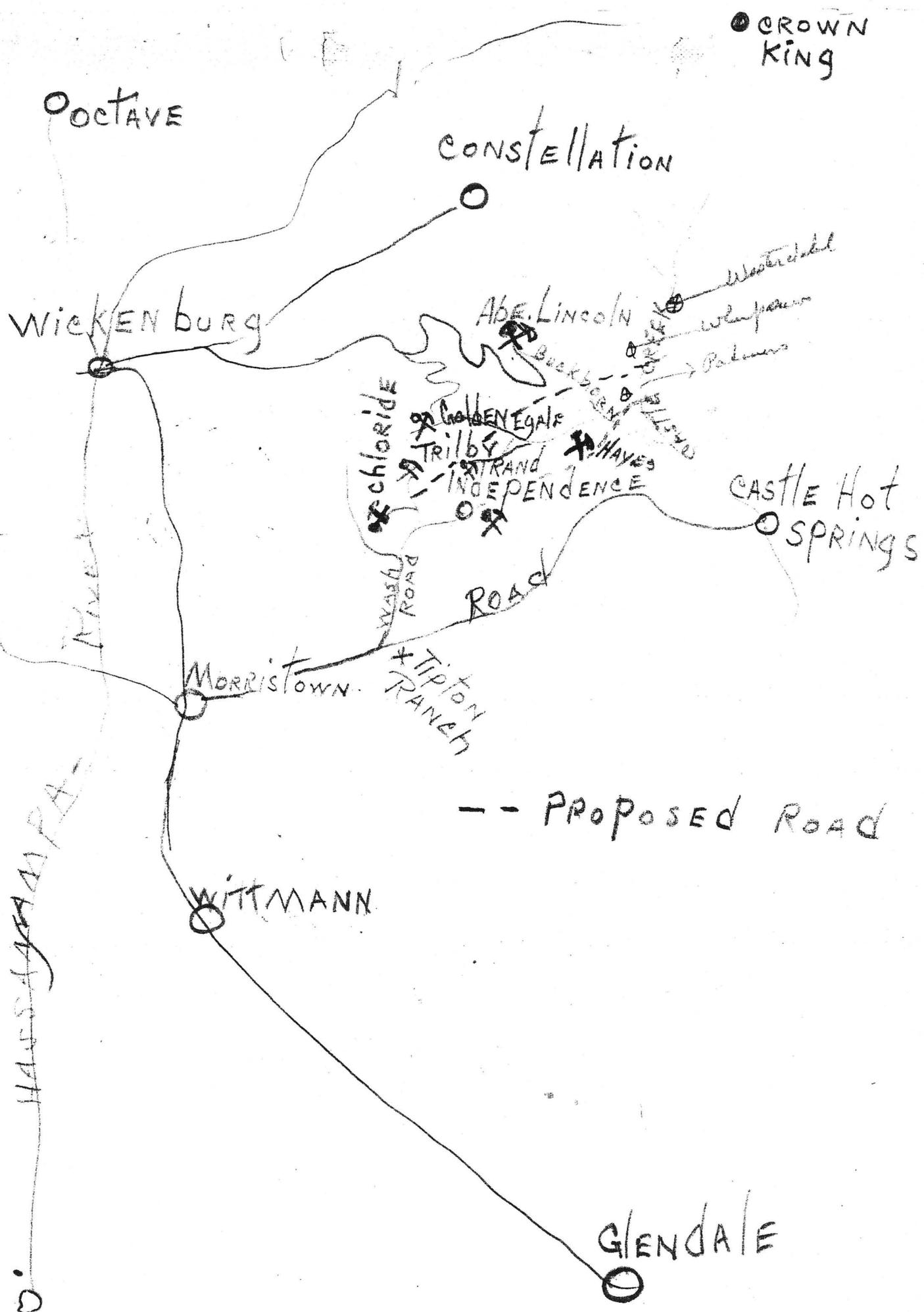
Bob Brown Mine

Ridge

3 1/2 mi

Swallow Mine

1 1/2 mi



● CROWN KING

○ OCTAVE

CONSTELLATION

WICKENBURG

ABE LINCOLN

CASTLE HOT SPRINGS

MORRISTOWN

WITTMANN

GLENDALE

-- PROPOSED ROAD

chloride

WASH ROAD

ROAD

\* TIPTON RANCH

\* GLENDALE

\* TRIBBY

\* STRAND

\* INDEPENDENCE

\* HAVES

BUCKHORN

Master School

Whipple

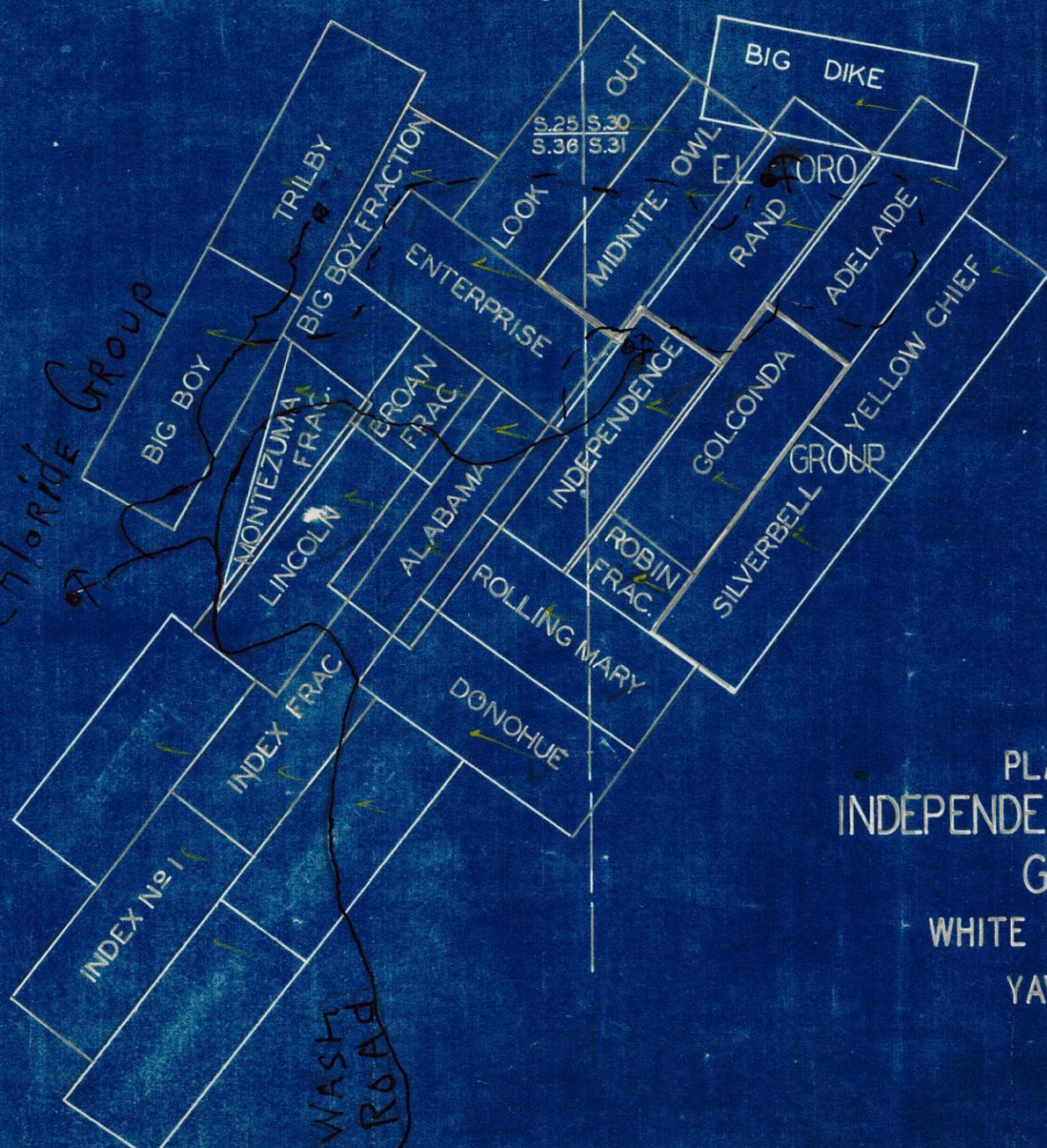
Parkers

1455-1460 PA

*Chloride Group*

*WASH ROAD*

T.6N.  
R.3W. R.2W.



PLAT OF CLAIMS  
INDEPENDENCE & ADJOINING  
GROUPS  
WHITE PICACHO DISTRICT  
YAVAPAI COUNTY  
ARIZONA