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Arizona Department of Mines and Mineral Resources Mining Collection

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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: SUMMIT MINE

ALTERNATE NAMES:

BEVIS GROUP
FORTUNATUS LODE

MOHAVE COUNTY MILS NUMBER: 113E

LOCATION: TOWNSHIP 23 N RANGE 17 W SECTION 32 QUARTER NW
LATITUDE: N 35DEG 20MIN 23SEC LONGITUDE: W 114DEG 07MIN 19SEC
TOPO MAP NAME: STOCKTON HILL - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

SILVER SULFIDE
ZINC SULFIDE
GOLD LODE
COPPER SULFIDE
LEAD SULFIDE
URANIUM

BIBLIOGRAPHY:

ADMMR SUMMIT MINE FILE
ADMMR MOHAVE CUSTOM MILL PROJECT
ADMMR "NELSON TRANS. TUNNEL RPT." P. 4
HAURY, P.S. "Zn-Pb MINES, AZ" USBM RI 4101 P 4
GRANGER, H.C. "URANIUM DPSTS, AZ" USGS BULL
1147-A, P. 22, 23; 1962
AZ. STATE MINE INSP. RPT., P. 8; 1965
ADMMR GOLDEN GEM MINE AND MILL FILE

**DMEA GRANTS ADDITIONAL
LOANS TO ARIZONA MINES**

Several new exploration assistance contracts have been signed by Defense Minerals Exploration Administration with Arizona mining companies. Projects for copper, fluor spar, asbestos, lead and zinc are covered in the new contracts, and call for a total expenditure of \$181,020. Of this amount \$109,698 is the government's share in the projects, and \$71,322 is private funds.

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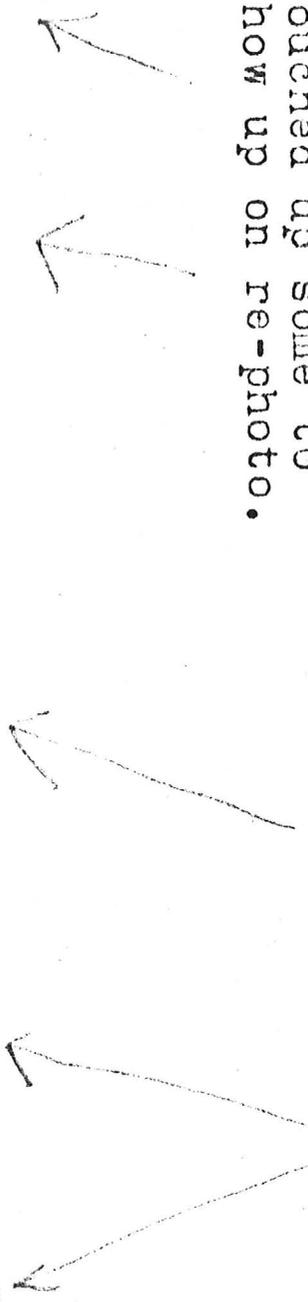
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Hill Mine (Copper)	\$ 61,392	\$126,789
Banner Mining Company's Two		
Buttis Mine (Copper)	67,894.50	125,789
Sherwood B Owens, April		
Mine (Zinc-Copper)	31,961	63,926
Yucca Mining and Milling		
Company, Antler Mine		
(Copper)	29,735	59,470
American Asbestos Cement		
Corporation, 74 claims		
(Asbestos)	111,482.10	123,869
Reed and Reed Mining Company,		
Fountain Head and Silver		
Legion claims (Lead-		
Zinc-Copper)	10,000	20,000
Nash Mines, Bonanza Lead-		
Zinc-Copper Mine (Lead-		
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Nikas Mining Company,		
Maudlin and Morning Sta-		
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Arizona Metals Company,		
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Fluorspar Producers Corporation,		
Polly Anne and Elizabeth		
Claims (Fluorspar)	6,925	13,850
William W. Sorensen &		
William C. Williams		
(Asbestos)	19,575	31,750
Magma King Manganese		
Mining Company's Ajax and		
Ajax No. 1 (Lead-Zinc)	11,560	23,100
Arizona Copper Mines, Inc.,		
Santa Catalina Mine		
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Bear Canyon Mining		
Company's Bear Canyon		
Mine (Asbestos)	22,598	26,220
	<hr/>	<hr/>
	\$487,865.60	\$908,663.00

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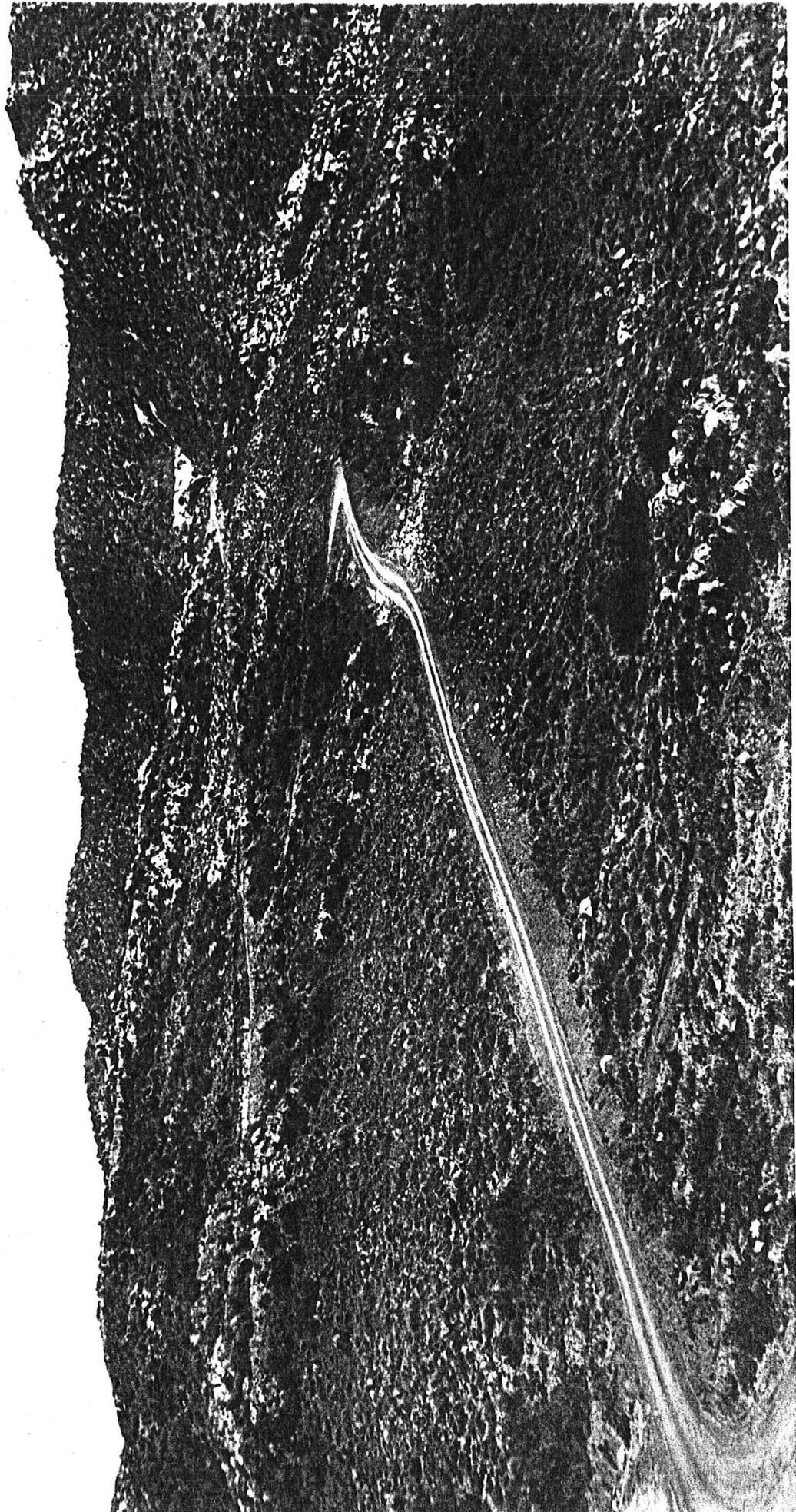
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Summit Mine Alpha Mine



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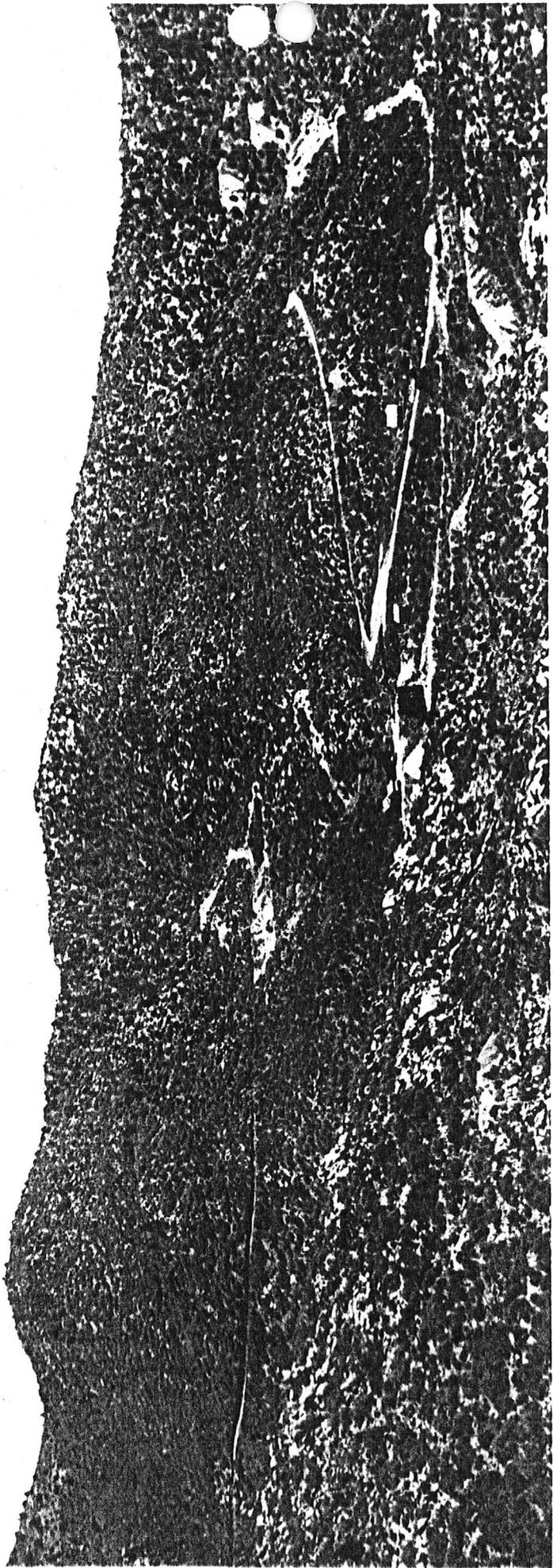
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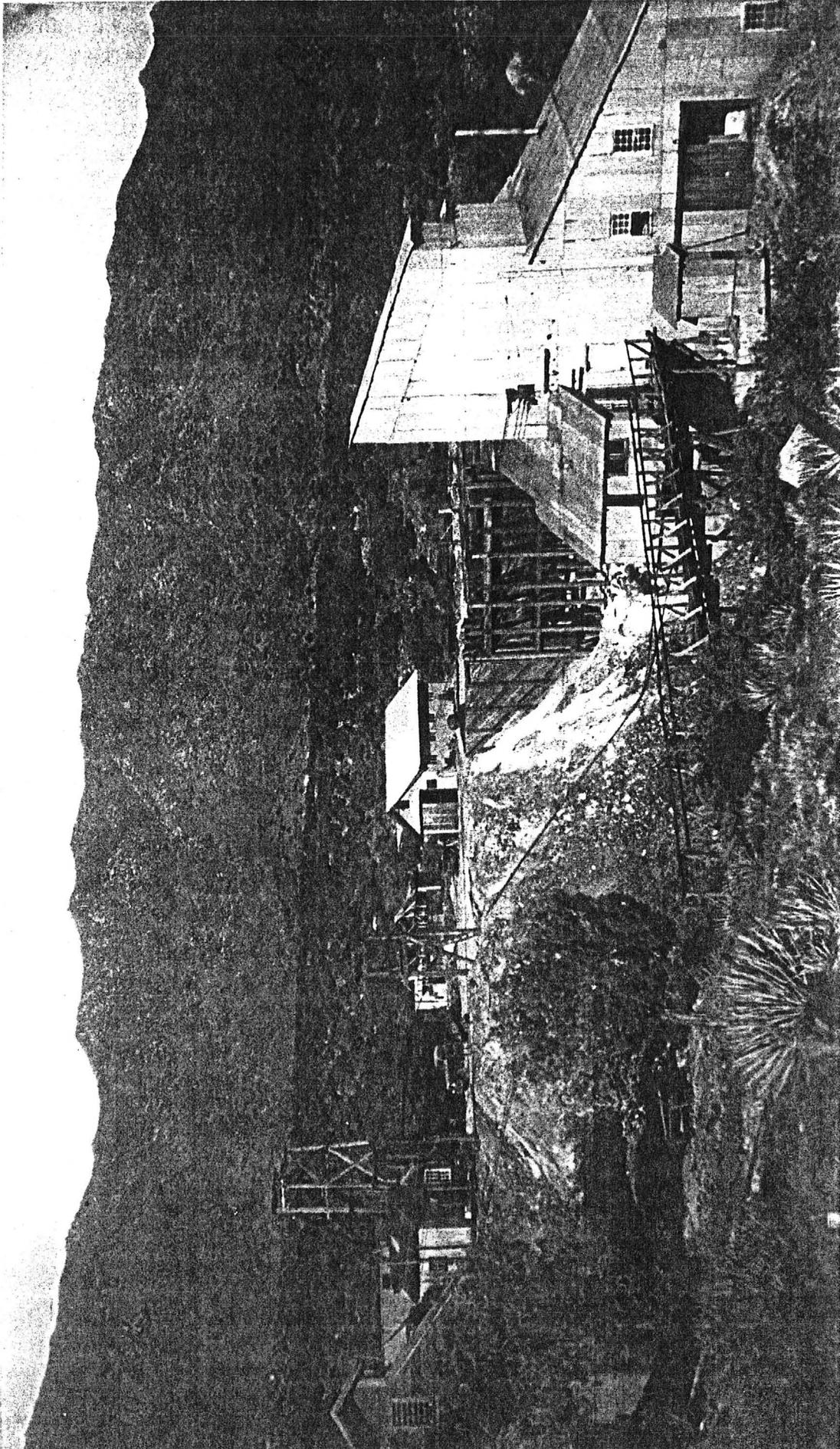
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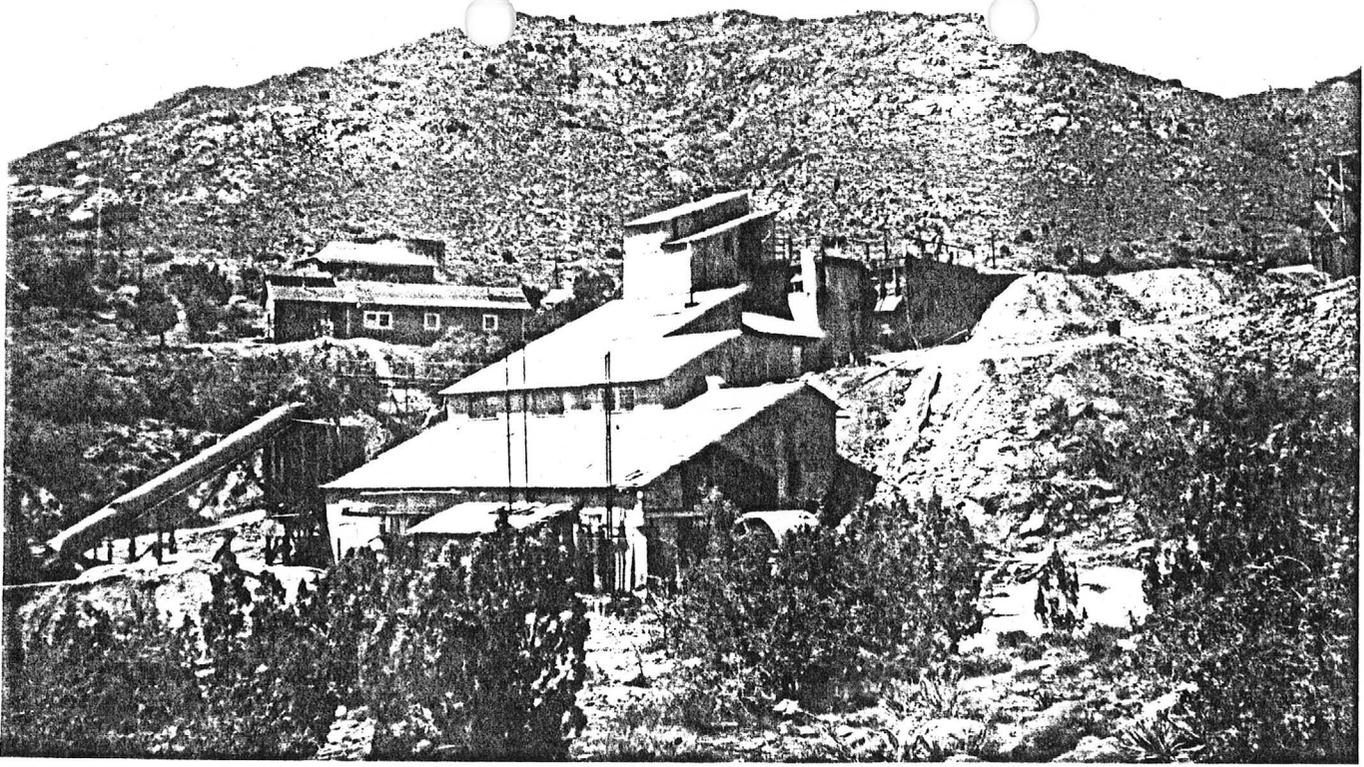
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C-1950



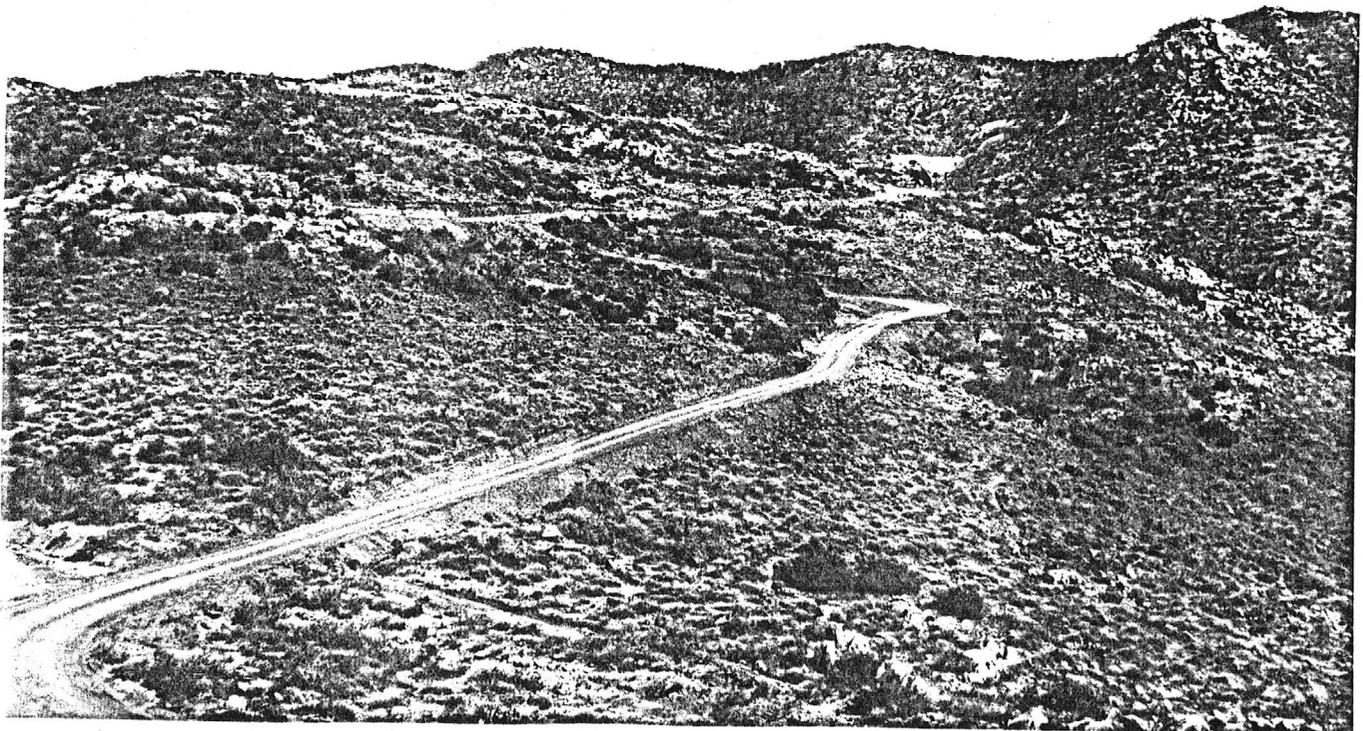
MID 1940s

A-100-G KEYSTONE MILL

9

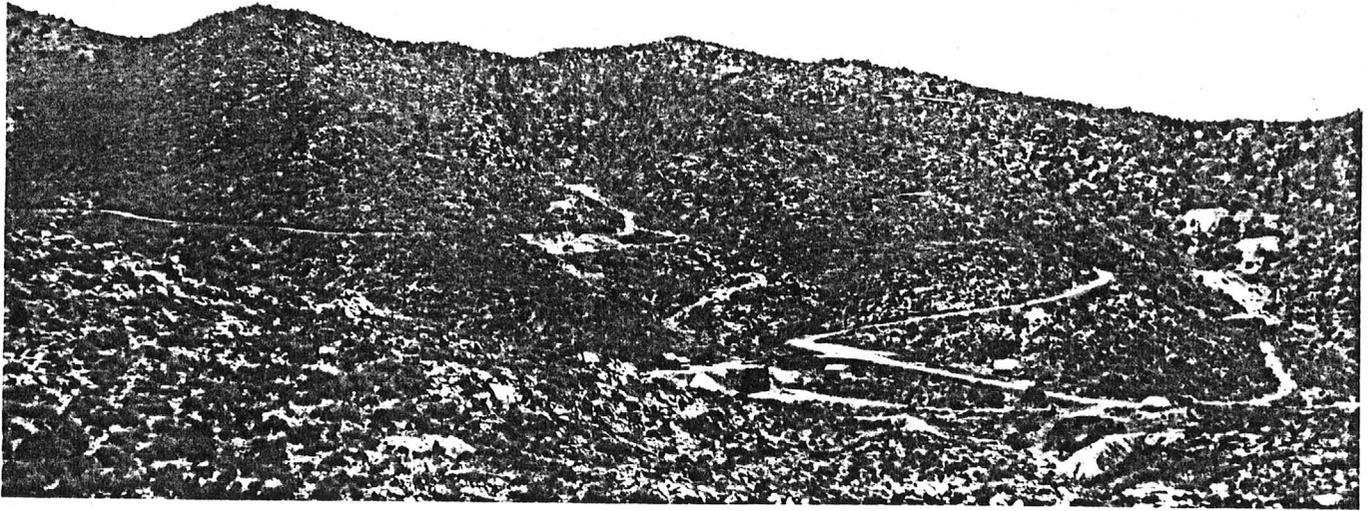


Keystone Mill where ore from Summit & alpha mines
is milled



Section of new road replacing worst grade in old road.

Originals in photo file



New road passing Alpha mine camp enroute to Summit Mine.



New road approaching + turn-arounds at Summit mine
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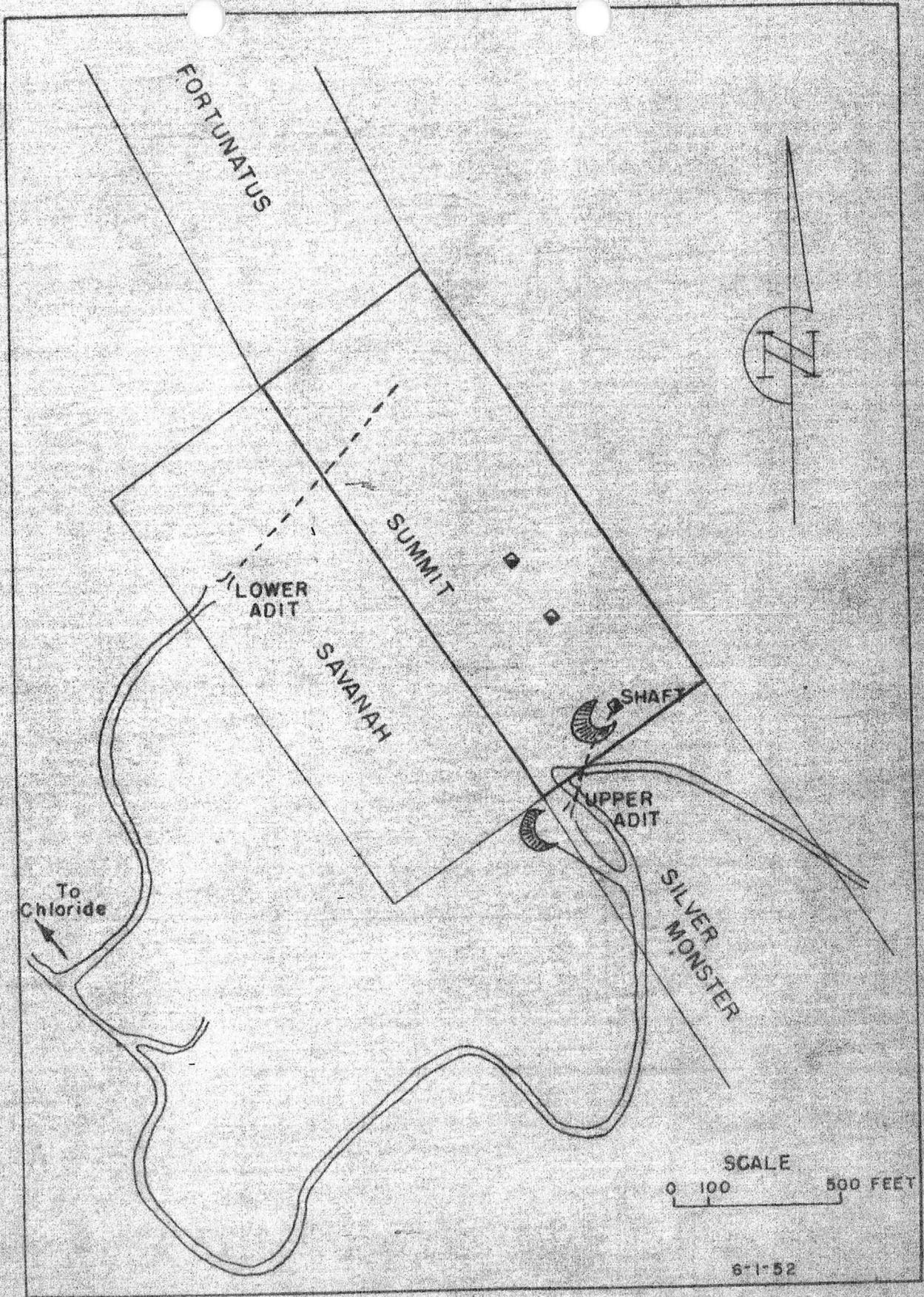


FIG. 2—Claim Map, Summit Mine, Mohave County, Ariz.
DMEA 2463

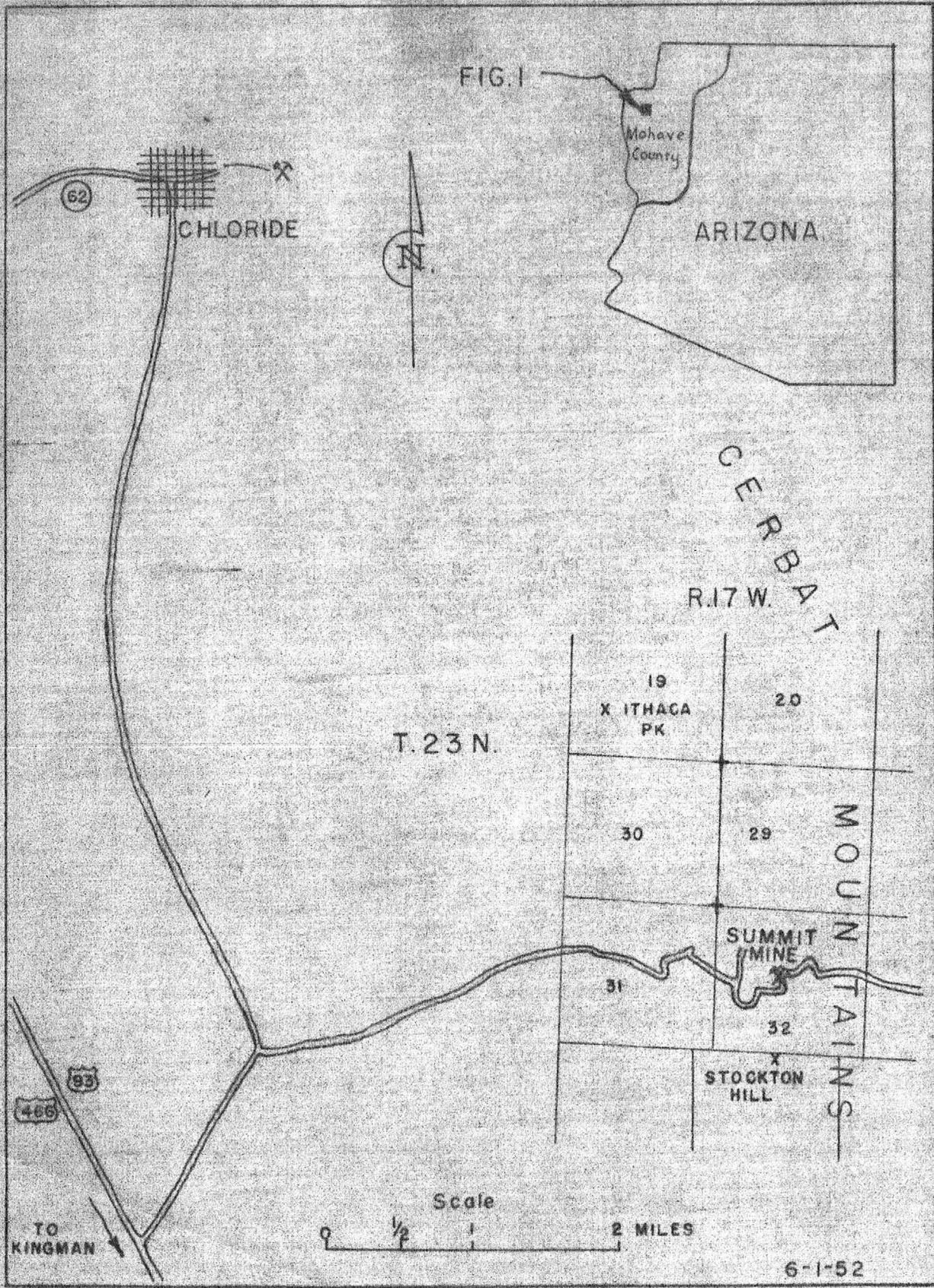
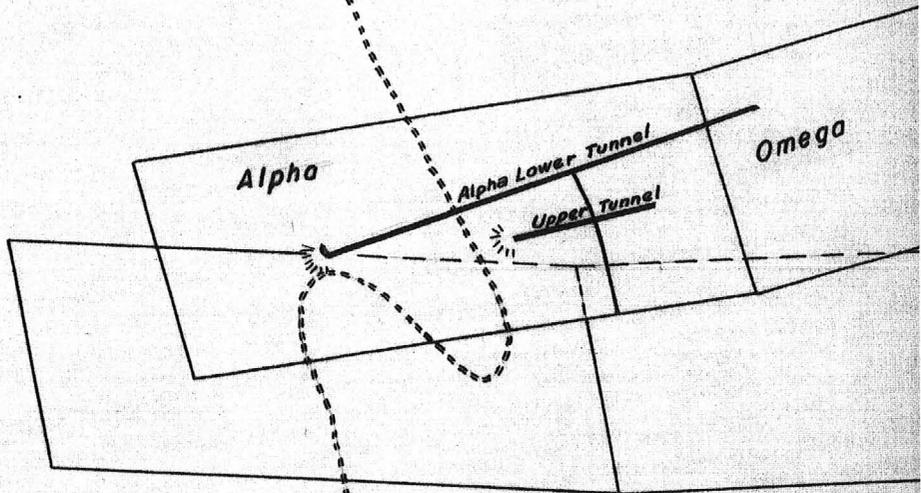
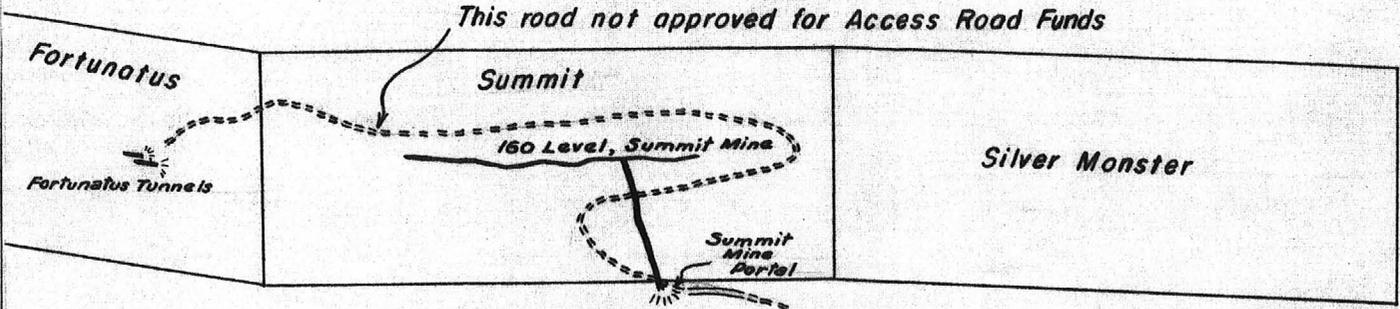


Figure 1— Location Map, Summit Mine, Mohave County, Arizona
DMEA 2463



1" = 500'

Approximate location of road
now in use

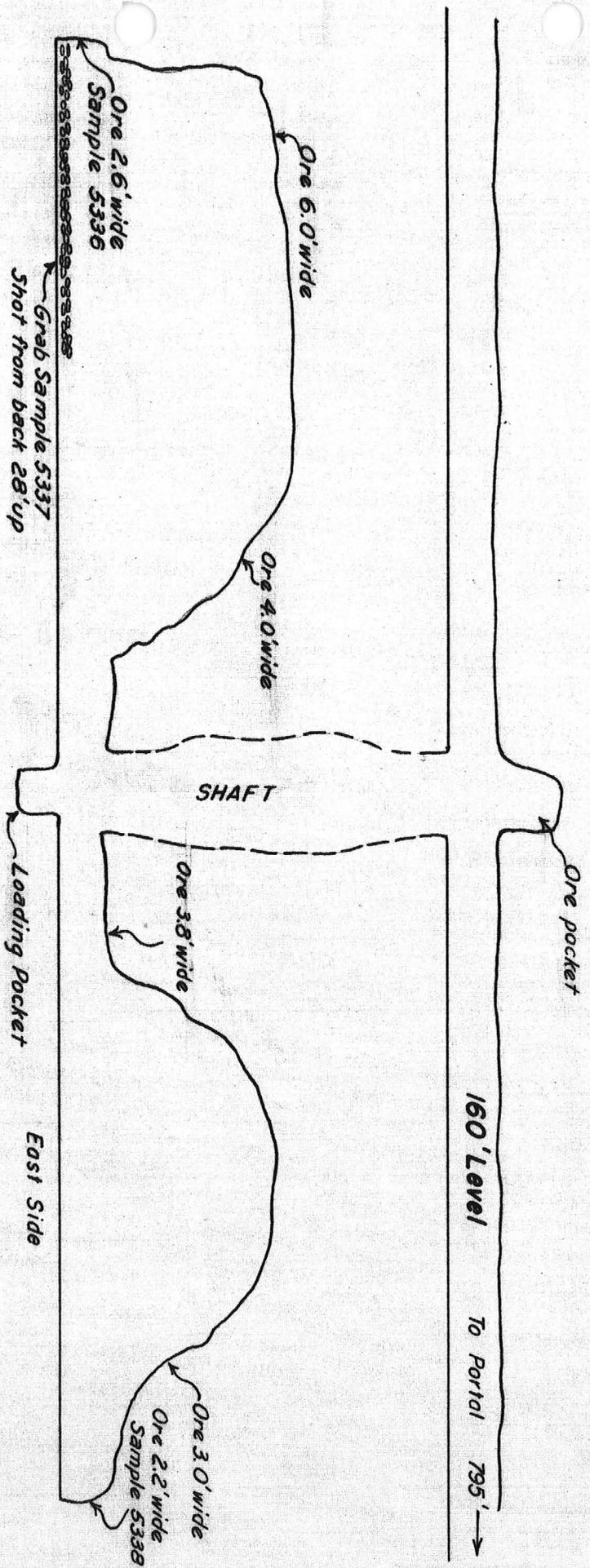
For Access Rd.
178

Information for Access Road
see Summit Mine Exam. 15,089 for complete mine plan

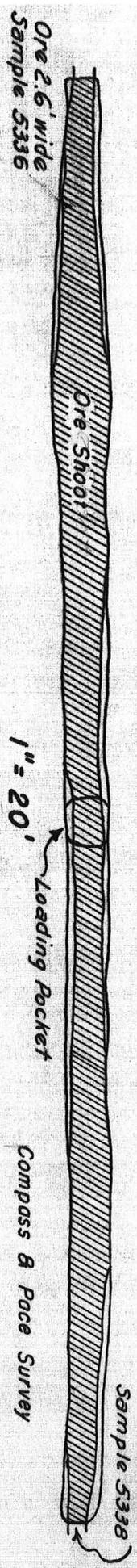
Longitudinal Section of Summit Mine
(Where Ralph Langley is working Oreshoot below 160 foot level)

AR 178

AR 178



Plan of Drift Level 50' below 160' Level



08/02/88

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ADMMR GOLDEN GEM MINE AND MILL FILE
AEC PRELIM. RPT. REM 4026, P. 35-39
THOMAS, B.E. "GEO OF CHLORIDE QUAD"; 1953
AEC 172-485, P. 140
ADMMR HOUSHOLDER MAPS RACK 22A
RABB, DAVID "RECOVERY OF METAL VALUES PRIOR T
O RECLAMATION OF MINED AREAS OF THE SW" (ADM
MR GEOLOGY FILE)

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Banner Mining Company's Twi Buttes Mine (Copper)	67,894.50	135,789
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Yucca Mining and Milling Company, Antler Mine (Copper)	29,735	59,470
American Asbestos Cement Corporation, 74 claims (Asbestos)	111,482.10	123,869
Reed and Reed Mining Company, Fountain Head and Silver Legion claims (Lead-Zinc-Copper)	10,000	20,000
Nash Mines, Bonanza Lead-Zinc-Copper Mine (Lead-Zinc-Copper)	19,300	38,600
Nikas Mining Company, Mauding and Morning Star Mines (Tungsten)	44,400	59,200
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OPERATIONS OFFICE

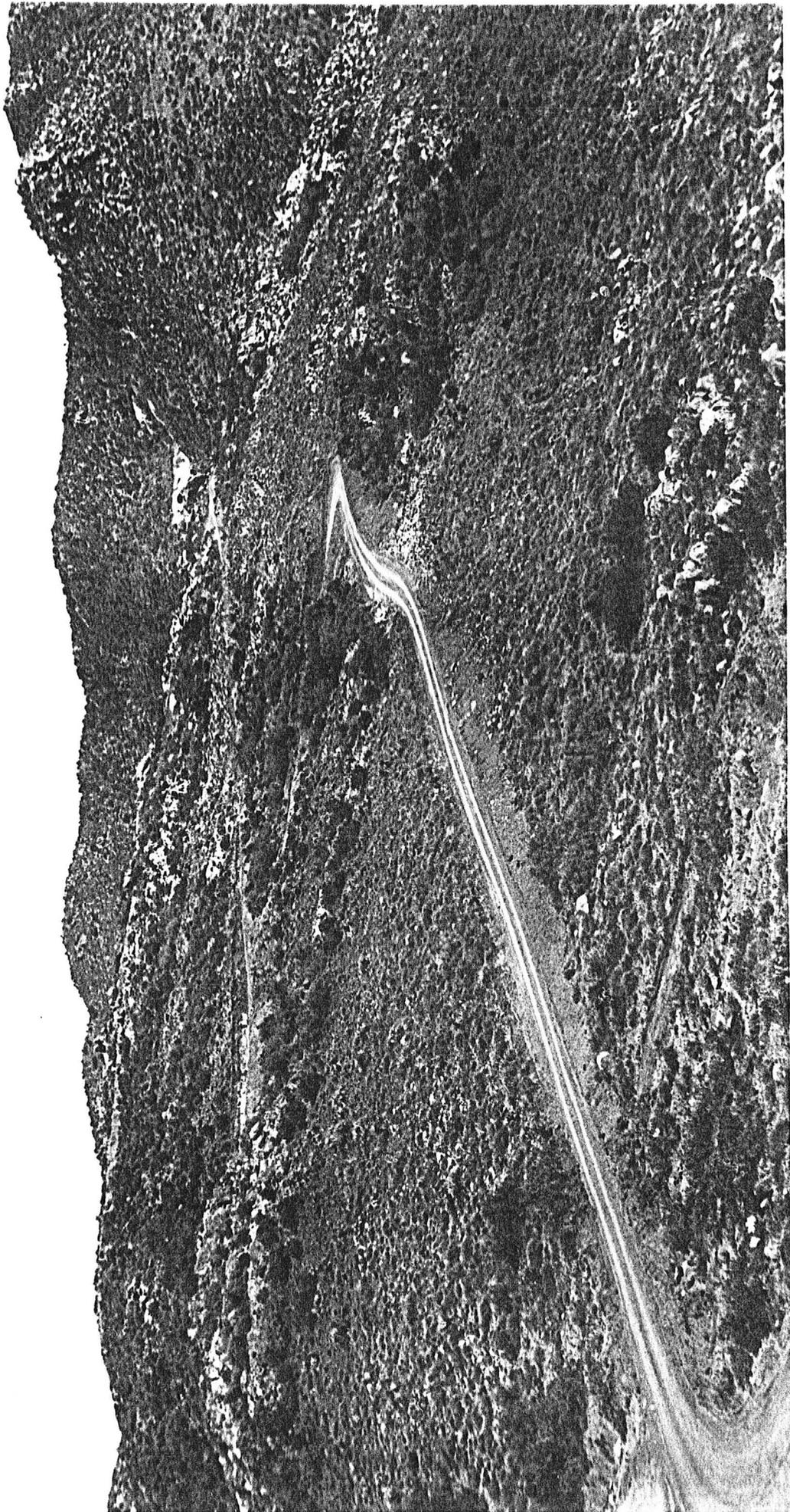
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Roadway should be
touched up some to
show up on re-photo.

Summit Mine Alpha Mine

A-181-55





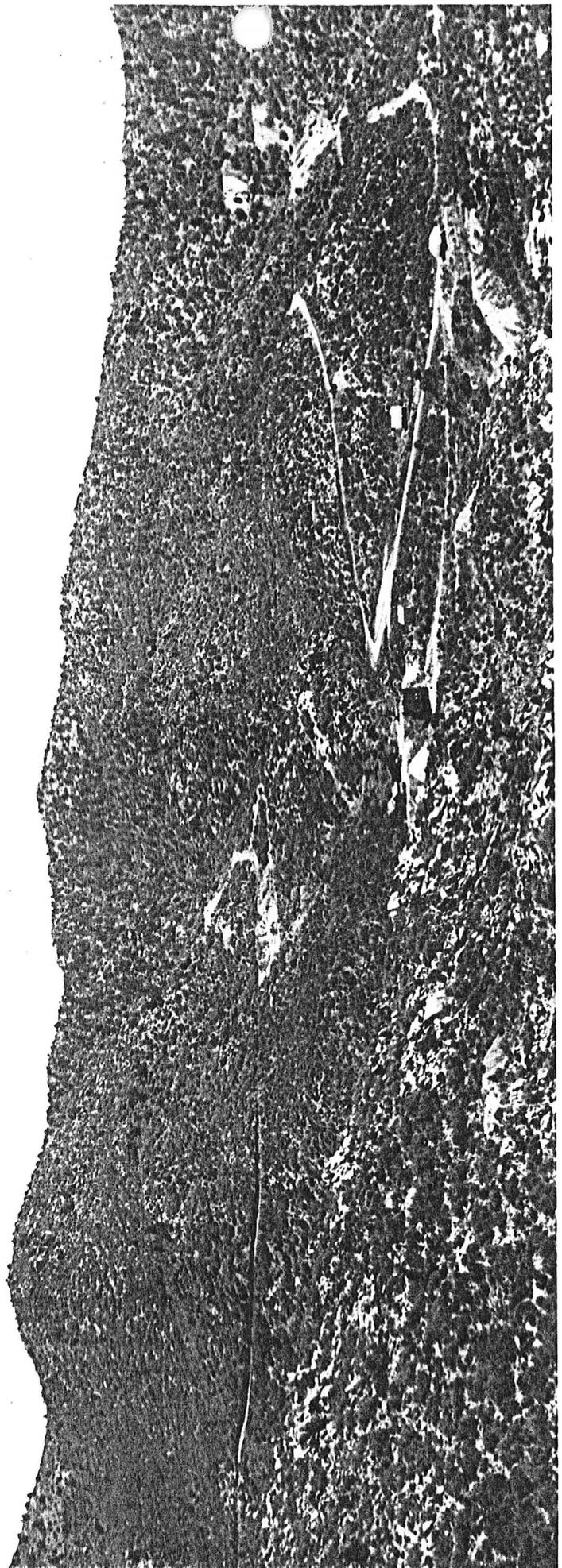
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C-1950



A-181-58

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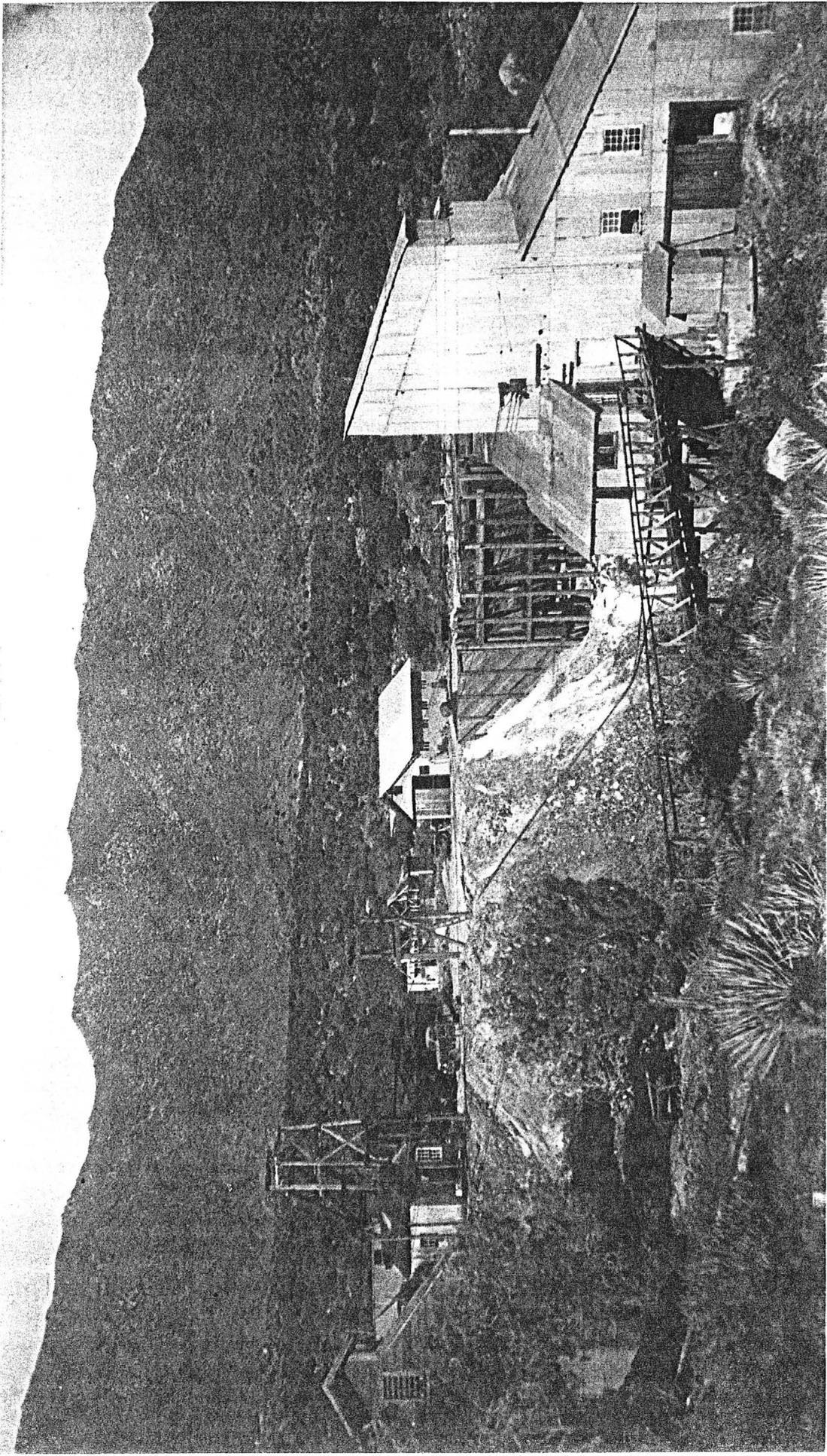
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ALPHA MINE CAMP

C-1950

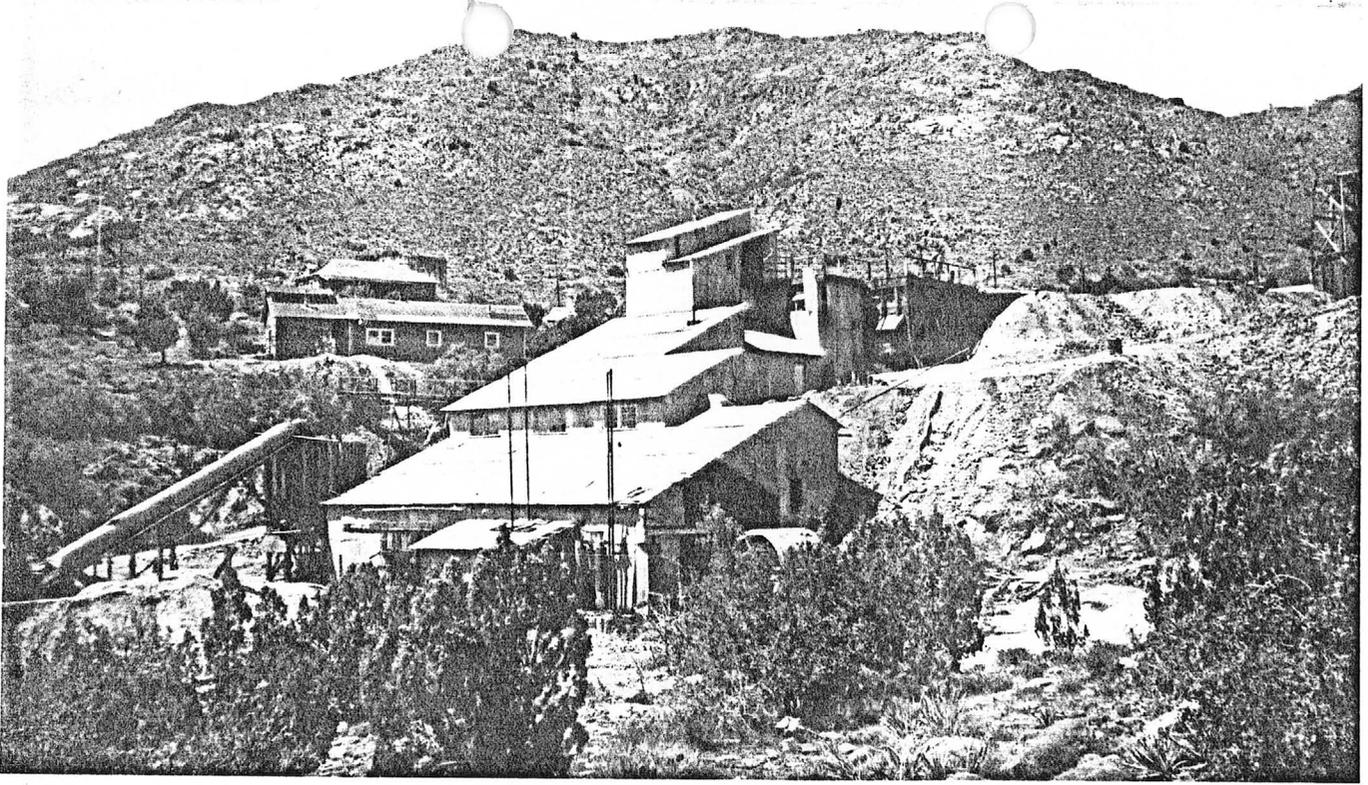


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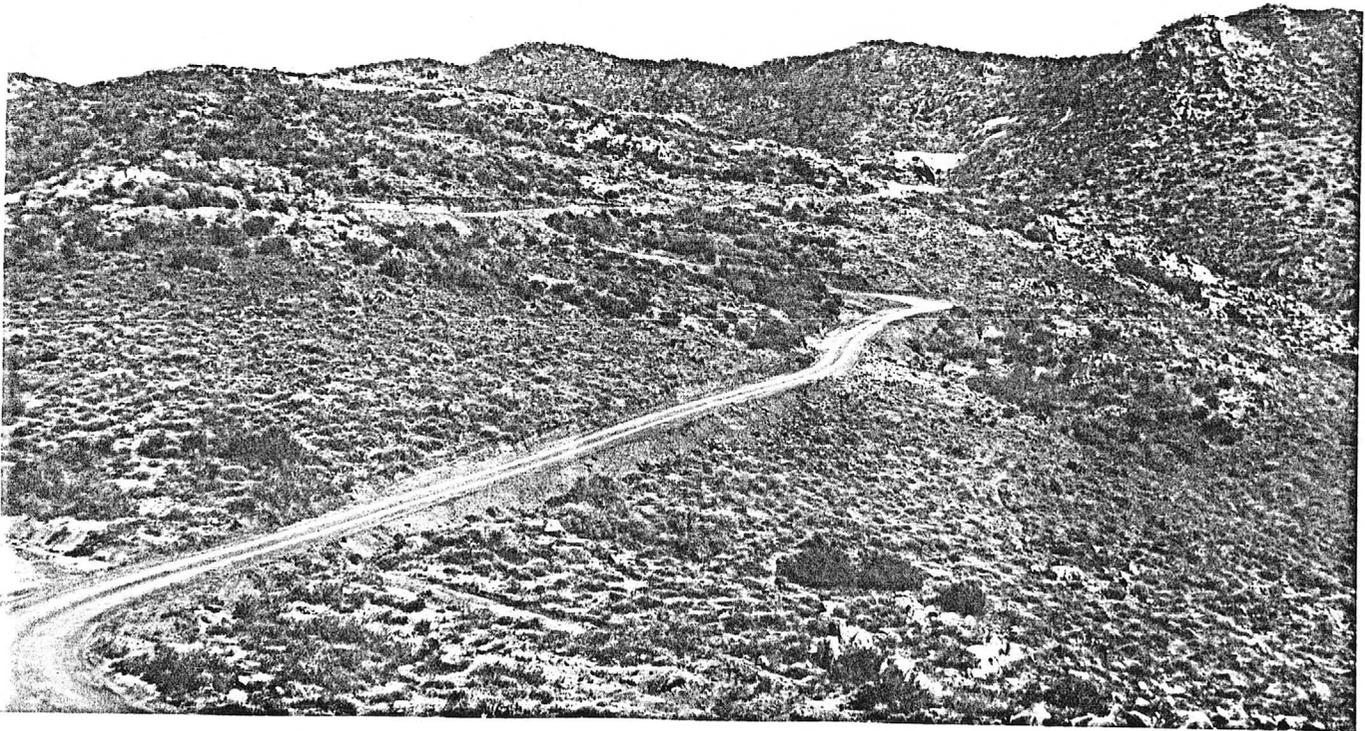


A-100-6 KEY STONE MILL

MID 1940s

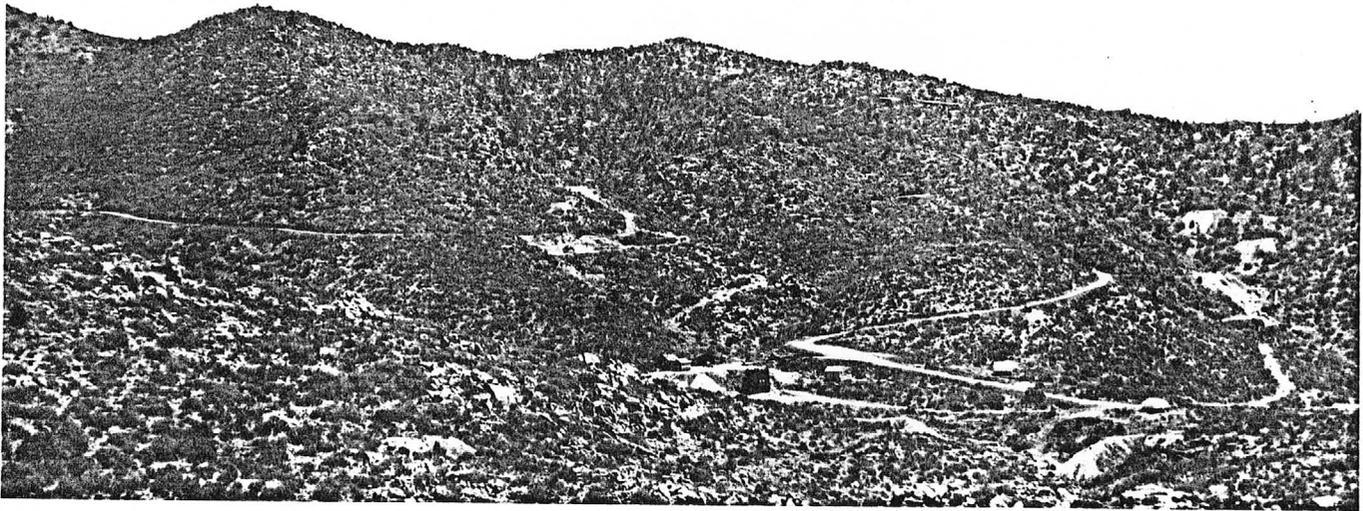


Keystone Mill where ore from Summit & alpha mines
is milled



Section of new road replacing worst grade in old road.

Originals in photo file



New road passing Alpha mine camp enroute to Summit Mine.



New road approaching + turn-arounds at Summit mine
Originals in Photo file

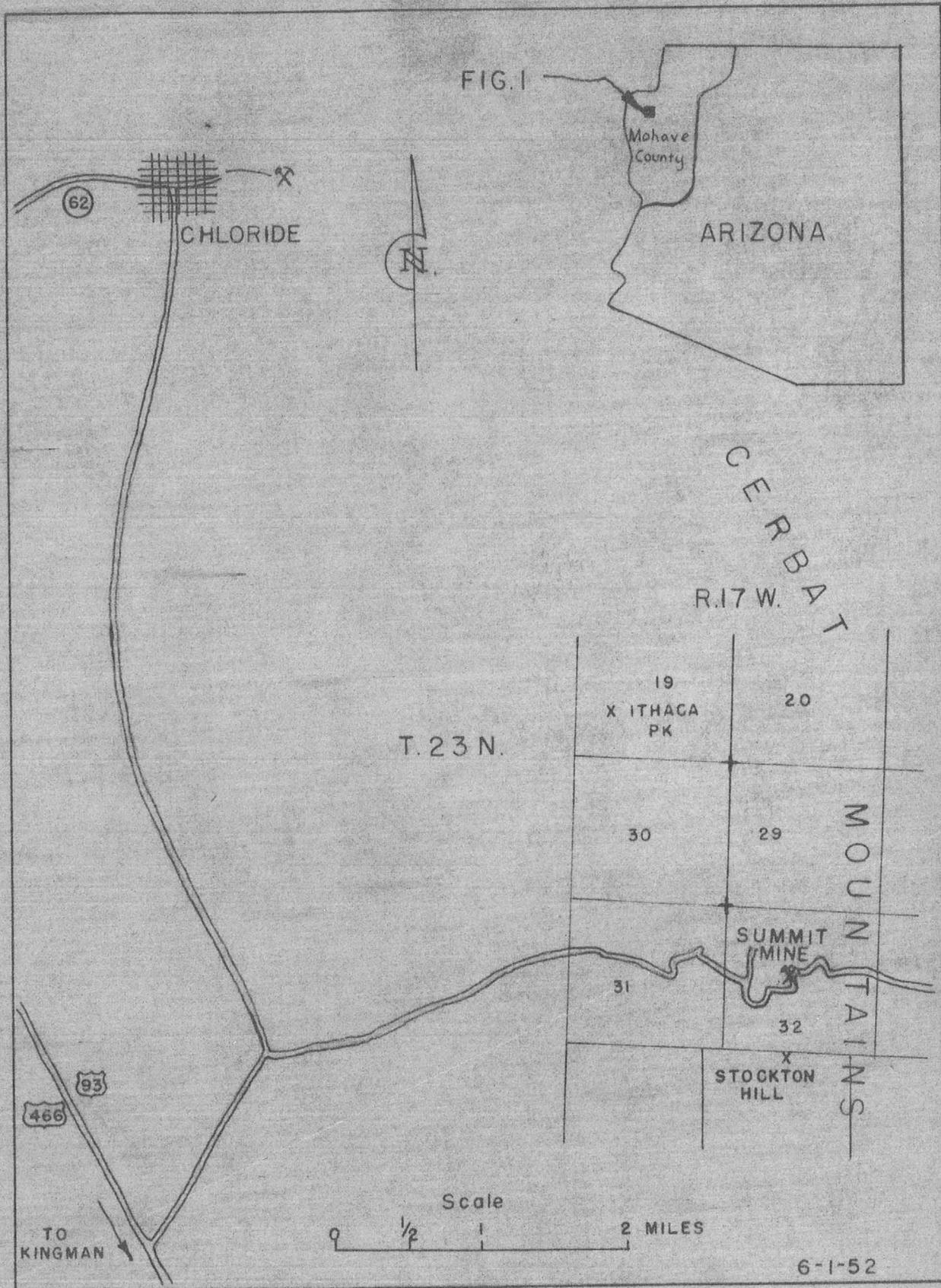


Figure 1— Location Map, Summit Mine, Mohave County, Arizona
DMEA 2463

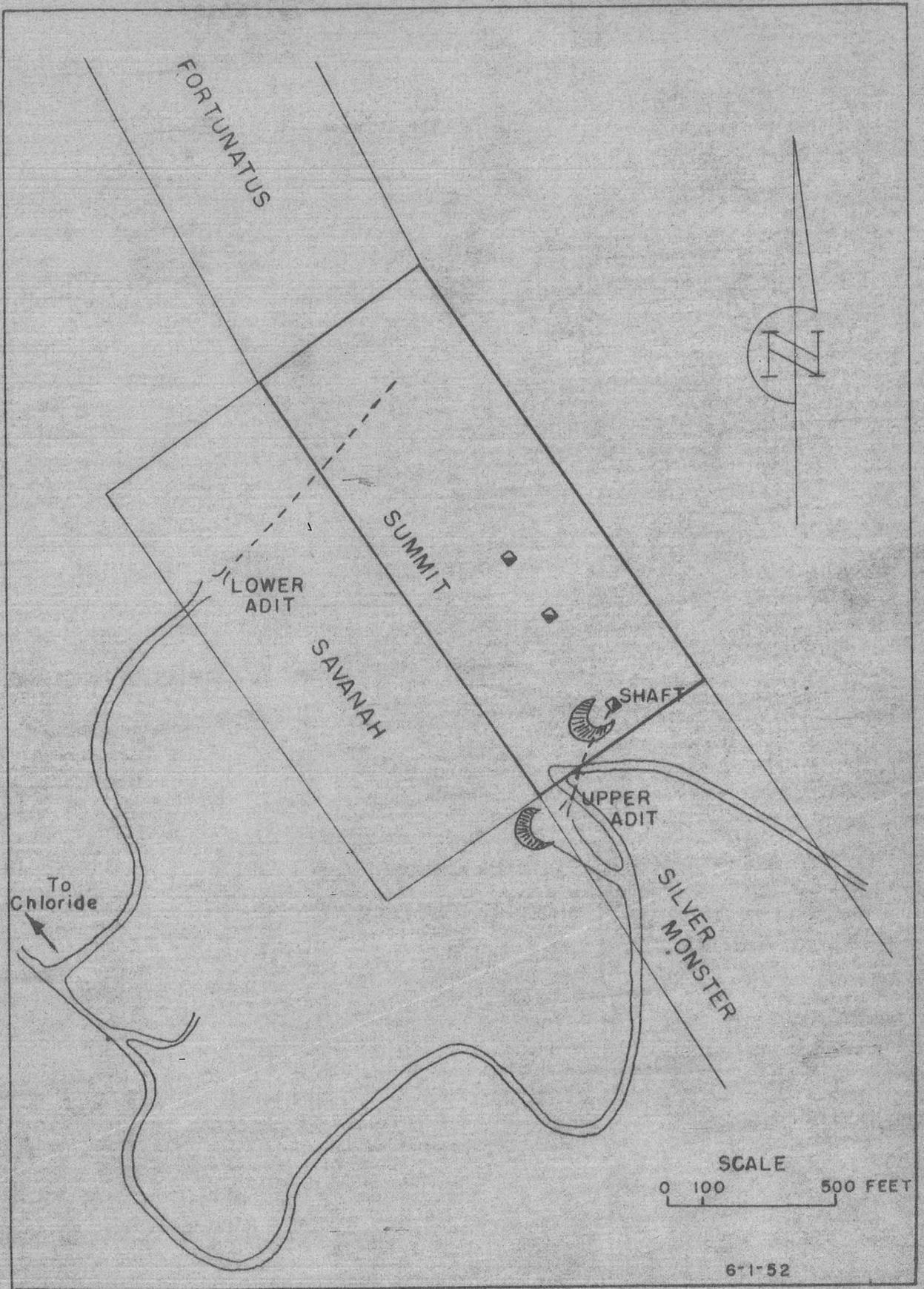


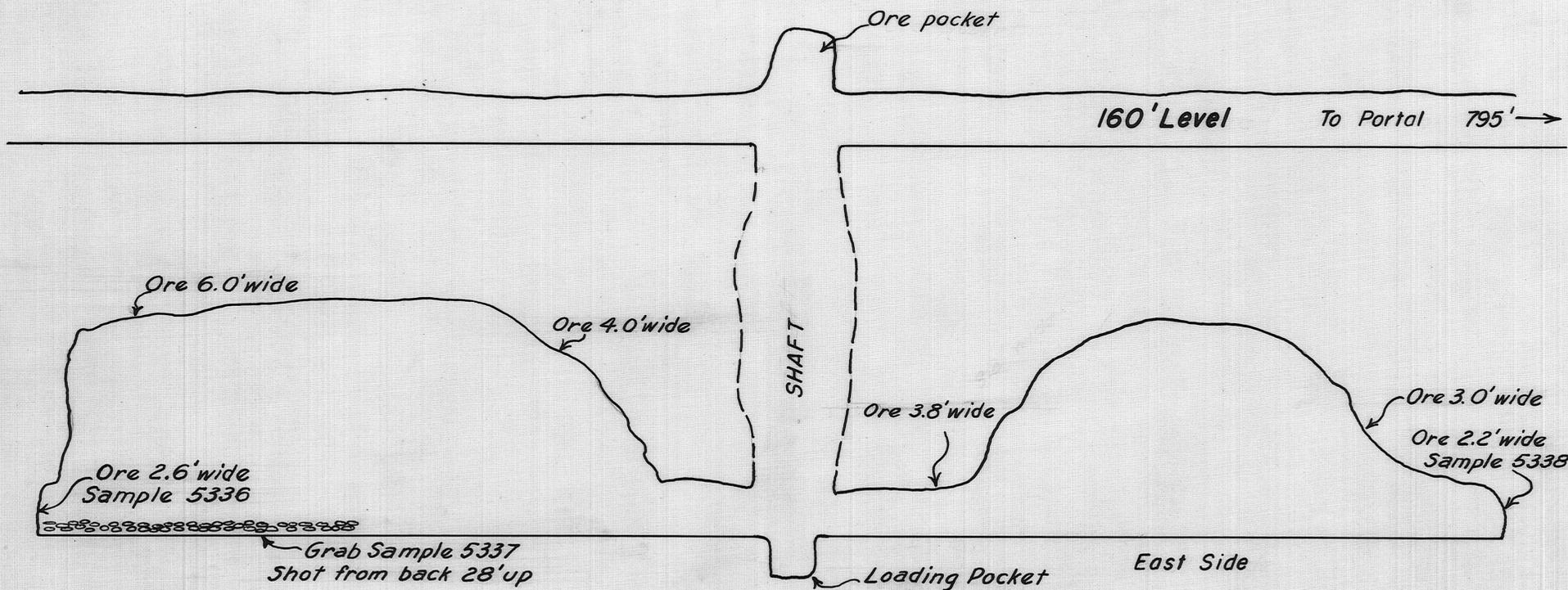
FIG. 2—Claim Map, Summit Mine, Mohave County, Ariz.
DMEA 2463

Information for Access Road
see Summit Mine Exam. 15,089 for complete mine plan

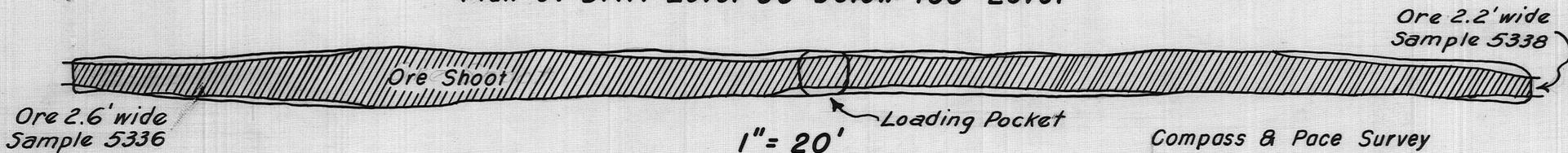
AR 178

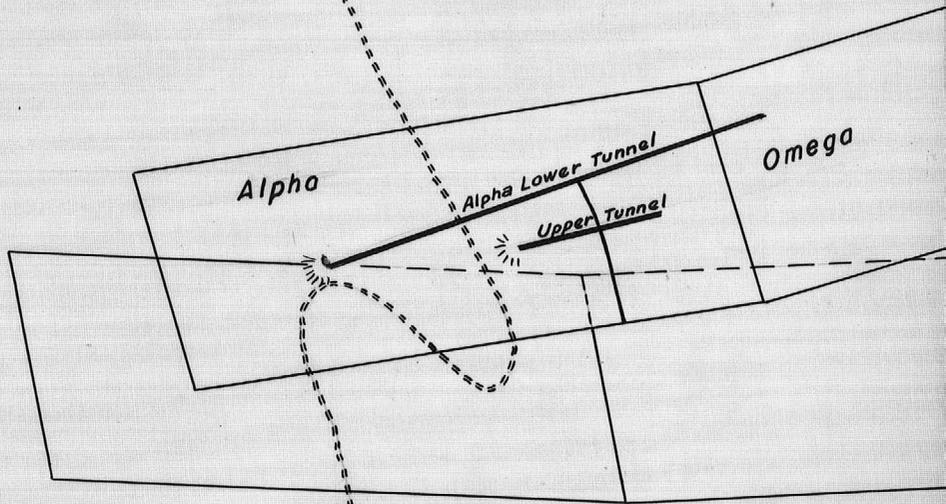
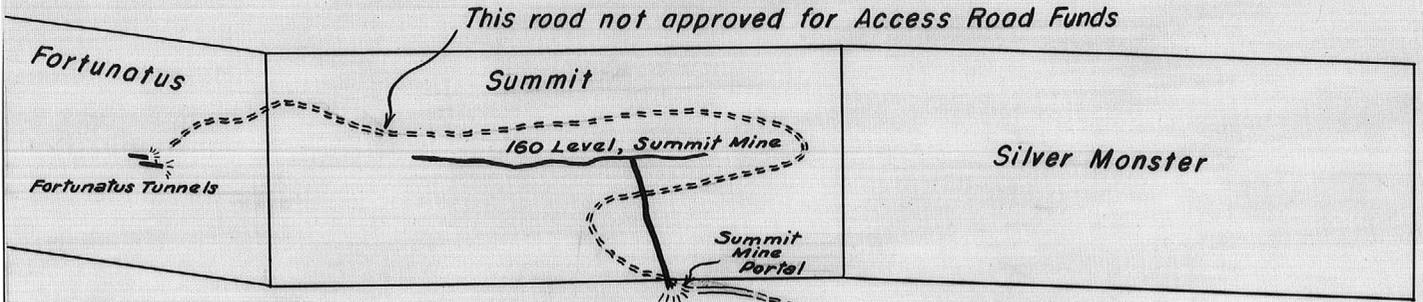
Longitudinal Section of Summit Mine
(Where Ralph Langley is working Oreshoot below 160 foot level)

AR 178



Plan of Drift Level 50' below 160' Level





1" = 500'

A proposed
alignment
is shown
for
location
of
road

For Access Rd.
178

MINE

MOHAVE COUNTY

Interviewed Jerry Haynes who has had the contract at the Summit Mine. Work has stopped temporarily as the drifting is finished. They expect to start real work on a contract to drive 200 feet of raises.

JW. WR 3/5/65

Haynes has ceased work at the Summit where they were x-cutting and drifting. Sampling is next on the agenda and study of mill possibilities were being made.

FEJ WR 1/7/66

Phone call on 12/17/81 saying the following ^{mine} ~~car~~ operating the Summit and shipping ore: American International Minerals Corporation. JC

NJN WR 10/15/82: Received calls inquiring about the activities of American International Minerals Corporation at the Summit Mine in Mohave County. Apparently people are being asked to invest there.

NJN WR 11/19/82: Bob Allgood with Cimeta Engineering reported that American International Minerals Corporation is restoring the old Golden Gem flotation mill in Cerbat Canyon to use in conjunction with their Summit Mine operation.

NJN WR 8/26/83: Bill Vanderwall reported that Equitable Corporation has put the Cerbat Mill-Summit Mine-Golden Gem Mine project on hold for the next 6 months.

RH

SUMMIT MINE

Ralph Langley visited the office to discuss iron developments and to report that the Golden Gem people (Cerbat Mining Co.) plan to operate his Summit Mine.

TRAVIS P. LANE - Weekly Report - 11-18-61

Nov. 22, 1961 - Visited the Golden Gem mine and mill. The Golden Gem mine is developing on the 300 and 500 ft. levels. The Company is also opening the nearby Flores mine and is rehabilitating the main adit of the Summit preparatory to mining. This property is a recent acquisition. Twenty men are employed at the mines and mill.

TRAVIS P. LANE - Nov. 25, 1961 - Weekly Report

This property active Feb. 1962 - Vic Howard, Mgr., Cerbat Mining & Milling Co., Box 1207, Kingman, Ariz. -

Summit mine idle. 5-16-62 - TPL - WR

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Summit Mine (40 claims) Date Sept. 12, 1962
District Cerbat Dist., Mohave Co. Engineer Lewis A. Smith
Subject: Conference With ^{Patrick} ~~Joe~~ Parker 9-6-62 (Telephone).

Operators: Cerbat M. & M. Co., Kingman.

Location: Sec. 32, T. 23 N., R. 17 W.

According to ~~Joe~~ Parker, 3 men are doing underground prospective work on the third level in the Summit vein. The shaft is 300 feet, or more, deep, and has 3 levels at 100, 200 and 300 feet. Little ore so far has been encountered, but some fair indications have been found.

The veins at the Summit Mine are in amphibolite. The principal vein strikes generally northwesterly and dips steeply NE. The gangue is mainly quartz containing considerable gangue fragments. The minerals include galena, sphalerite, pyrite and chalcopyrite. Oxidation extends down to 100 feet below the outcrop, but the shift from here into sulphides is fairly abrupt. The ore is rarely vein width except where lenses are found. 3 such lenses occurred on the 1st level and 1 on the 2nd level. One of the lenses on the 1st level contained copper, whereas the other three predominantly contained lead and zinc.

Recent mining (1943-1946) yielded 6049 tons of ore that assayed 4.42 percent Pb, 7.18 percent Zn, 0.76 percent Cu, 0.0738 oz. gold and 5.82 oz. silver per ton.

3 men besides ~~Joe~~ Parker are presently working at the Summit Mine.

Interviewed Ralph Langely July 12, 1963

12611 *See memo Cerbat. Williams July 11/1963*
He said that A. R. Tatanall of Los Angeles had taken over the Thompson interests in the Cerbat M & M Co., also that Burns and Passmore of Van Nuys Building and Loan Co. of Van Nuys Calif., had interest in the company, they are going to drive a 1100 ft drift and 4-50 ft. raises at the Summit Mine.

E/ G. Williams WR July 17, 1963

Interviewed Jerry Haynes at International Minerals and Chemical Corp. quarry. He said he still has 2 men working and drifting at the Summit Mine but is having trouble with bad ground.

EGW WEEKLY REPORT JANUARY 10, 1964.

Interviewed Jerry Haynes. learned he still has 2 men drifting at the Summit Mine.

EGW Weekly Report March 13, 1964

From "The Wallapai Project" by Mountain States Resource Development, Inc.
 Complete report in Tennessee-Schuykill file.

Ore minerals are principally cerargyrite (silver), native gold, galena (lead) sphalerite (zinc), and chalcopyrite (copper). Some arsenopyrite occurs along with cerrusite and oxidized base metal minerals. One can consider this to be a typical "Rocky Mountain Lead, Zinc, Copper Ore."

In March 1977 Messers Dale and Rudy reported on their efforts to justify a custom mill for the small miners of Mohave County. They were funded by a government grant and did their work in conjunction with a number of governmental agencies. In the northern part of the district they report 256,700 tons of dump and tailing ore grading .018 to .103 oz/T gold, .66 to 6.63 oz/t silver, .03 to .16% copper, .13 to 1.79% lead and .50 to 3.56% zinc. They considered this to be proven ore.

It is interesting to note that this is only the northern part of the district and only includes materials that were easily accessible. Items like the buried table and jig tails at the Tennessee were not included.

H. Mason Coggin, a well known and respected mining engineer, evaluated the Copper Age group of claims in April, 1980. He measured many ore occurrences and interpreted a number of undeveloped one in the Copper Age group has a potential of 4.730 million tons averaging \$200/ton.

In the Hidden Treasure section of the property Mr. Coggin estimates .5 million tons of ore grading \$200/ton or better.

The Arizona Bureau of Mines lists the following known reserves in the Wallapai Mining District:

<u>Mine</u>	<u>Tons</u>	<u>% Cu</u>	<u>% Pb</u>	<u>% Zn</u>	<u>oz/T Au</u>	<u>oz/T Ag</u>
Banner	3841	.5	22.6	11.9	.21	7.4
	5000	.5	22.6	11.9	.21	7.4
Summit	25,000	.58	4.3	6.3	.066	4.5
	25,000	.58	4.3	6.3	.066	4.5
Golconda	40,000	.5	.5	14.0	.20	4.0
	40,000	.5	.5	14.0	.20	4.0
Fountain Head	1,250	.61	.65	16.4	.2	3.5
	3,750	.61	.65	16.4	.2	3.5
Detroit	1600	2.31	1.0	5.5	.01	7.2
	1600	2.31	1.0	5.5	.01	7.2
Wrigley	56,000	.1	9.0	.1	.1	.2
Tennessee	29,503	.1	4.1	8.2	.01	.2
	50,000	.1	4.1	8.2	.01	.2

Tennessee	100,000	.1	4.1	8.2	.01	.2
New Moon	11,000	.1	5.0	8.0	.05	7.5
	9,900	.1	5.0	8.0	.05	7.5
	10,000	.1	5.0	8.0	.05	7.5
Minnesota	900	.6	5.0	4.0	.01	.2
Lone Jack	2000	.19	5.51	4.66	.035	3.47
Copper Age	7,000	.1	3.6	7.3	.06	2.0
	7,000	.1	3.6	7.3	.06	2.0
Champion	570	.1	8.0	15.6	.26	10.0
	6,000	.1	8.0	15.6	.26	10.0
	6,000	.1	8.0	15.6	.26	10.0

While the above represent substantial exploration and are very conservative, especially since this is what their taxes are based upon, it is not fully conclusive. Mining costs, metallurgical techniques and markets must be developed. However these do show the substantial amounts of ore left in the mines.

Howard H. Heilman examined the Golconda Mine in great detail. He measured the reserves in numerous structures and defined those reserves as follows:

Virginia	350,000 tons
Tub	400,000
Little Jimmie	150,000
Peach Triangle	350,000
Golconda	300,000
Prosperity	80,000
Primrose	80,000
Blackfoot	90,000
	<u>1,800,000</u>

Mr. Heilman values these ores as follows:

Zinc	16%
Lead	.5%
Copper	.5%
Gold & Silver	\$120.00/T*

* Bases on \$300/oz gold and \$6.00/oz silver.

The whole emphasis that comes from the Golconda reports is that the mine was shut down when the fire occurred and once stopped was not restarted. The stopes that were in production are in approximately the same situation as when the mine closed.

Tonnages as indicated above were confirmed by H. G. Humes and The American Metal Company. Grades in their estimates ran higher in lead and copper and slightly lower in zinc.

Mr. Eldon Lee

9 Jun 82

Page 5

Dump samples on the Golconda were taken and measurements of tonnage were made. The measured tonnages are as follows:

Chats	15,000 tons
Lower Blackfoot	3,000
Middle Blackfoot	7,000
Upper Blackfoot	500
Prosperity	8,000
Tub	3,000
Silver	7,000
Tails	20,000
Golconda	30,000
	<u>93,500</u>

Of the dump ore, approximately 6,000 tons of it will not meet \$65/T gross metal value criteria leaving some 87,500 tons.

Samples taken by CEC have confirmed some of the grades quoted. The ongoing program of sampling each dump by complete trenching and then metallurgical testing the sampled material will accurately prove not only the tonnage and assay of each dump, but will also define what can be recovered from these dumps.

Metallurgically the ores in the Wallapai District are best treated by flotation. Recoveries as follows can be expected on ores that are freshly mined:

Lead and Silver	90-95%
Copper and Gold	85-90%
Zinc	75-85%

Ores that have been oxidized by weathering (e.g. dump ores) are also best treated by flotation unless the weathering is severe. One might expect a 5% reduction in recovery, but otherwise the treatment should be unaffected.

Gravity separation means can also be used on the Wallapai ores. Recoveries are lower, but oxidation has no effect. Some cases of highly oxidized ores yield higher recoveries than flotation, but these are not very important in the district.

Ores with high sulfides should never be treated by leaching techniques. This is a waste of time, money and resources.

The most important item in determining the best method of treatment is metallurgical testing. Ores, even ores from similar mines, must be tested and the parameters for optimum treatment established. A few dollars spent on professional metallurgical testing will save hundreds of thousands in the final analysis.

Summarizing one can state that dump ores and tailings in the district that will meet a \$65/T gross metal value are substantial. If the reports issued by competent personnel quoted herein are correct the tonnage is in excess of 300,000 tons. While CEC is

NAME: SUMMIT

COUNTY: MOHAVE

T 23 N R 17 W SEC. 32

Stockton Hill
Elev. 5400

DISTRICT: ~~SAN JUAN~~

WALLA PAI

Mineralization: Pb Zn Cu Au Ag U (uranium?)

Geology: composite gtz - 90 vein zone. + fault fissure i gneissoid
biotite granite cut by narrow mafic dikes

Type Operation: 200'

Production:

References: STOCKTON HILL USGS Bull 1147-A AEC RIME 4026

Micro Film 201 No 48 Form USBM - RI4101 clipping file

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine **SUMMIT**

Date **April 17, 1957**

District

Engineer **MARK GEMMILL**

Subject: **Present status**

This property is idle and has been for the past few years.

STATUS OF DORMANT MINES

MINE NAME: Summit Alpha

LOCATION: 20 mi N. Kingman

OWNER AND/OR LEASEE: Arizona Metals Company

ADDRESS: Box 1266 - Kingman, Ariz.

APPROXIMATE PRODUCTION (Year of 1945):

COPPER 120,000 Lbs. LEAD 720,000 Lbs.
 ZINC 860,000 Lbs. (OTHER) \$30,000 in Gold, Silver

CHECK THE CHIEF CAUSE OF YOUR DISCONTINUED PRODUCTION:

- (A) Easily available ore worked out. ✓
- (B) Increased costs, but have quantity similar to past grade of ore. ✓
- (C) Too close a margin to develop more ore.
- (D) No capital to develop more ore

If you have ore ready to mine please give your estimate of the amount of metal (name each metal) that you could produce in one year (after allowing 60 days to get started) if there were premiums above present market prices. Name amount with a low premium, and amount at a high premium; such as:

Copper at 22 $\frac{1}{2}$ ¢ plus 5¢ premium..... 1,000,000 Lbs.
 Copper at 22 $\frac{1}{2}$ ¢ plus 10¢ premium..... 1,500,000 Lbs.

Copper	22 $\frac{1}{2}$ ¢	<u>No</u>	premium	250,000
Lead	12 ¢	<u>No</u>	"	} 1,000,000
Zinc	15 ¢	<u>No</u>	"	

also gold and silver

If you do not have ore ready to mine please discuss the following:

(A) Do you think a reasonable development program would produce a justified tonnage of commercial ore at above mine?
Definitely

(B) With a premium price (guaranteed for one year) could you carry out such a development program yourself? What premium?
No + Promises of premium prices will not finance a mine - will not attract speculative development money

(C) If you could not do this yourself, would a quick drilling program by some government agency (at government expense) be sufficient?

No

(D) Or would you prefer a loan plan similar to the arrangements during World War II?

Yes - a simple loan repayable out of production on easy basis.

How about a combination plan in two stages such as follows?

Stage 1: Government engineers review project and, if a little drilling appears to be justified and a preliminary key to the situation, such drilling program to be agreed upon by owner and government engineer, paid for by the government, but let by contract.

Stage 2: If results of drilling (or without drilling) justify underground development and/or production equipment, same to be obtainable via a mortgage loan on property.

Please discuss the above:

Drilling not much help where veins stand vertical - and not necessary in our case.

Stage 2 - A - Should be development loan repayable out of production on agreed default basis - where property is held by operator under lease from claim owner there is no basis for mortgage - except that lien on operators equity in ore developed is practical.

SUGGESTIONS:

I suggest Government Agency Advance funds to complete development work - Crosscuts drifts - shafts to open up are on fairly well proven properties - seasoned, competent operators - Not to "prospects" + inexperienced operators, who do not have equipment nor any past production from same property

DATE

Aug 4 - 1950

SIGNATURE

Wesley P Langley

SUMMIT MINELocation and Accessibility

The Summit mine is situated near the crest of the Cerbat range about 12 miles southeast of Chloride. It is reached from the west by a road that serves the Alpha, Detroit, and Golden Eagle properties also. A road from Kingman goes up the east side of the range to the mine. The higher sections of both these roads were in such a state of disrepair as to be almost impassable. An access-road proposal for the improvement of the road from the west to the Summit and Alpha mines was approved by the Bureau of Mines and was completed before July 1, 1945.

Ownership

The Summit group of 40 claims is owned by L. L. Robinson of Los Angeles, Calif. It was leased to the El Dorado Rover Mining Co., but the lease was relinquished in August 1943.

History

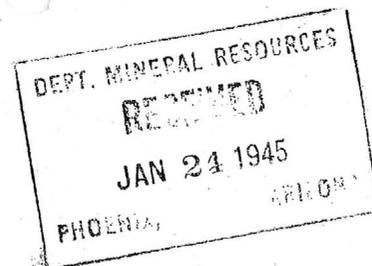
The U. S. Smelting, Refining & Mining Co., operating the mine on a lease, sank a vertical shaft in 1924. The Keystone Mining Co. shipped 12,000 tons of ore, which was stoped above the first level in 1936. The mine was thoroughly sampled in April 1942 by Miles P. Romney, engineer for the U. S. Smelting, Refining & Mining Co. The El Dorado Rover Mining Co. leased it in December 1942. This company did some new development on the lower levels with the aid of an R.F.C. loan and shipped 23 cars of ore, much of which was stoped above the first level. The company decided that not enough ore could be developed to supply a mill from this mine alone. It shut down in August 1943 and returned a second R.F.C. loan.

Ore Deposit

The ore-bearing vein, which is 3 to 8 feet thick, occupies a fissure in granite and amphibolite that stand well with little timbering. It strikes northwesterly and dips steeply northeast. The principal gangue is quartz with a considerable amount of gouge. The ore minerals are galena, sphalerite, pyrite, and chalcopyrite, with some gold and silver. The sulfides are largely oxidized above the first level. The metal content is below ore grade in much of the vein. The material with sufficient concentration of the metallic minerals to constitute ore occurs in lenses that seldom occupy the full width of the vein. Some of these are too small to mine. Three ore shoots with sufficient volume to repay the cost of mining are exposed on the first level. One of these is developed on the second level also. Two of these shoots are lead-zinc ore and one is copper ore.

Development

The mine was opened by a 1-1/2-compartment vertical shaft with levels at depths of 160, 200, and 300 feet. The 160-foot level has about 750 feet of



Jan. 23, 1945

P. O. Box 188,
Kingman, Ariz.

Mr. J. E. Layton,
Chloride, Arizona.

Dear Mr. Layton:

I returned to Kingman from Agua Caliente last Sunday, much improved in health; so am now catching up the loose ends here.

Please tell Harry Lennox and other ASMOA members there that I will be at the ASMOA meeting the night of Tuesday, February 6th, so would appreciate a good attendance that night.

Referring to our conversation some time ago about the Fortunatis mine, in passing through Phoenix last Friday, my old friend, J. E. Dietrich, of Los Angeles, dropped in to see me at the Arizona Hotel. In fact, he came from Los Angeles for that purpose.

He is well-connected financially and a square shooter in every way; and is looking for a worth-while mine to develop and operate. I told him about certain mines in this county, mainly the Fortunatis. He is interested and will arrive in Kingman about February 1st. Wants to meet you and look the said property over.

I also told him about the New London; but explained that you and associates are working it yourselves and would not likely want to sell. However, he wants to look it over also.

Should you come to Kingman within the next few days, suggest you drop in to see me in order to discuss the matter just referred to.

With kind personal regards, I am

Very sincerely yours,

Elgin B. Holt,
Field Engineer.

cc - J. E. Dietrich
Chas. H. Dunning

November 15, 1944

Mr. J. E. Layton
Box 227
Chloride, Arizona

Dear Mr. Layton:

We have received the following communications from Bill Broadgate which I am passing on to you.

"Nov. 6, 1944 -- Regarding the applications of Layton for a road from the Summit claims to the Fortunatus.

"As this is a new mine within the meaning of the Premium Price Plan, Layton can get no B or C premiums and I don't see how he can operate on that grade ore without them.

"I don't think for a moment that WPB, when the application arrives here, will approve such a road as they do not wish to encourage any zinc mine which cannot make out on A premiums alone. They do not want any new producers. It is practically stated in the application that this is just a prospect. I have no good argument here. Now, regarding the Langley project, there is a somewhat better chance.

"I think we must be realistic about the zinc situation. It is going to be practically impossible to do anything for small zinc producers. I don't know why anyone would start a new mine which could not pay off at the ceiling prices, when premiums are probably going to be reduced before long. The storm warnings are out now.

"You will note that WPB would not stretch out a hand to save the Tennessee Schuylkill, so why should it help start a new mine? It is felt the zinc situation is well in hand for several years and the miners should go into copper which is still tight and where labor is badly needed.

November 15, 1944

Mr. J. E. Layton
Box 227
Chloride, Arizona

DIRECTOR
OFFICE OF MINING

Dear Mr. Layton:

We have received the following communications from Bill Broadgate which I am passing on to you.

"Nov. 6, 1944 - Regarding the applications of Layton for a road from the Summit claims to the Fortunatus.

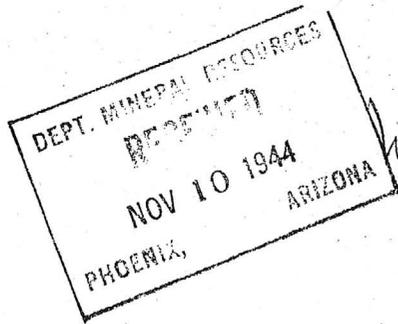
"As this is a new mine within the meaning of the Premium Price Plan, Layton can get no B or C premiums and I don't see how he can operate on that grade ore without them.

"I don't think for a moment that WPB, when the application arrives here, will approve such a road as they do not wish to encourage any zinc mine which cannot make out on A premiums alone. They do not want any new producers. It is practically stated in the application that this is just a prospect. I have no good argument here.

"Now, regarding the Langley project, where there is a somewhat better chance, I have a suggestion to offer for similar cases which should save a lot of wear and tear.

"I think we must be realistic about the zinc situation. It is going to be practically impossible to do anything for small zinc producers. I don't know why anyone would start a new mine which could not pay off at the ceiling prices, when premiums are probably going to be reduced before long. The storm warnings are out now.

"You will note that WPB would not stretch out a hand to save the Tennessee Schuykill, so why should it help start a new mine? It is felt the zinc situation is well in hand for several years and the miners should go into copper which is still tight and where labor is badly needed.



Dear Chuck -

Regarding the application of Layton for a road from the Summit Claims to the Fortunate.

As this is a new mine within the meaning of the Premium Price Plan, Layton can get no B or C premiums and I don't see how he can operate on that grade or without them.

I don't think for a moment that WPR, when the application arrives here, will approve such a road as they do not wish to encourage any zinc mine which cannot make out on A premiums alone. They do not want any new producers. It is practically stated in the application that this is just a prospect. I have no good argument here.

Now, regarding the Langley project, where there is a somewhat better chance, I have a suggestion to offer for similar cases which should save a lot of wear and tear.

Where it is a matter of improving a road to a mine which has premiums granted, and where they are not getting full premiums, I should think they would be better off if they would hire the

omit

County equipment, do the work themselves, charge it up as expense and get their premiums scaled up to take care of the cost if the additional charge brings their profit figure too low. This would be quicker and easier than an application for access roads in such cases, and especially in the case of zinc mines which are going to have hard sledding from now on. I think we must be realistic about the zinc situation. It is going to be practically impossible to do anything for small zinc producers. I don't know why anyone would start a new mine which could not pay off at the ceiling prices, when premiums are probably going to be reduced before long. The storm warnings are out now.

You will note that WLB would not stretch out a hand to save the Tennessee Schul bill, so why should it help start a new mine? It is fact the zinc situation is well in hand for several years and the miners should go into copper which is still tight and where labor is badly needed.

I hear Langley expects to leave for Washington about the 16th. Unless he just wants the trip he had better stay home.

Bice Partridge

FORTUNATUS LODE, Wallapai Dist., Mohave County

For Information See: REPORT ON THE "CERBAT TRANSPORTATION DEVELOPMENT & DRAINAGE TUNNEL"

&

REPORT ON THE "NELSON TRANSPORTATION TUNNEL"

in "Geology Reports" File

October 21, 1944

Mr. J. E. Layton
Box 227
Chloride, Arizona

Dear Mr. Layton:

I am herewith mailing you two copies of the Fortunatus access road project, including copies of my sketch map. I am also enclosing one copy of application and map for your files. Please sign the two copies mentioned and return to the Department of Mineral Resources here at your earliest convenience so that we may file same with the Grazing Service here.

For your information Mr. Langley has made application for his Summit road and we are holding same here until your application arrives and then we will hand the two together to the Grazing Service in Phoenix.

When all this is done we will write Broadgate to do what he can to have it pass the War Production Board in Washington.

Sincerely yours,

Elgin B. Holt
Field Engineer

EBH:LP
Enc.

RALPH R. LANGLEY
1045 South Bedford Street
Los Angeles 35, California

P. O. Box 455
Kingman, Arizona

Kingman, Arizona
October 5th, 1944

Mr. Elgin B. Holt
Kingman
Arizona

Dear Mr. Holt:

With respect to the need of an access road to the Summit and Alpha Mines, and other mines in that vicinity, I submit the following.

While developing the Summit Mine the past six months we have produced and shipped 65 cars of ore of 3,560 tons. The average metal content of the ore shipped being

Gold 0.587 Silver 5.42 Copper 0.63% Lead 5.73% and Zinc 7.28%

The Summit property is composed of 8 claims which are a part of a group of about 40 claims known as the Old Colony Group. There are a number of other developed workings in the group which can be put on production if and when transportation is made available.

The Summit workings consist of a shaft 342 feet deep, a crosscut tunnel from the side of the mountain a distance of about 400' to a point where it intersects a drift on the vein about 1,000' long. We have recently been developing ore by sinking a winze and doing some upraising and at the same time we have been shipping the ore above referred to. We have enough ore now developed to enable us to produce about an average of one car daily for a considerable length of time. As we produce and develop we open still more ore.

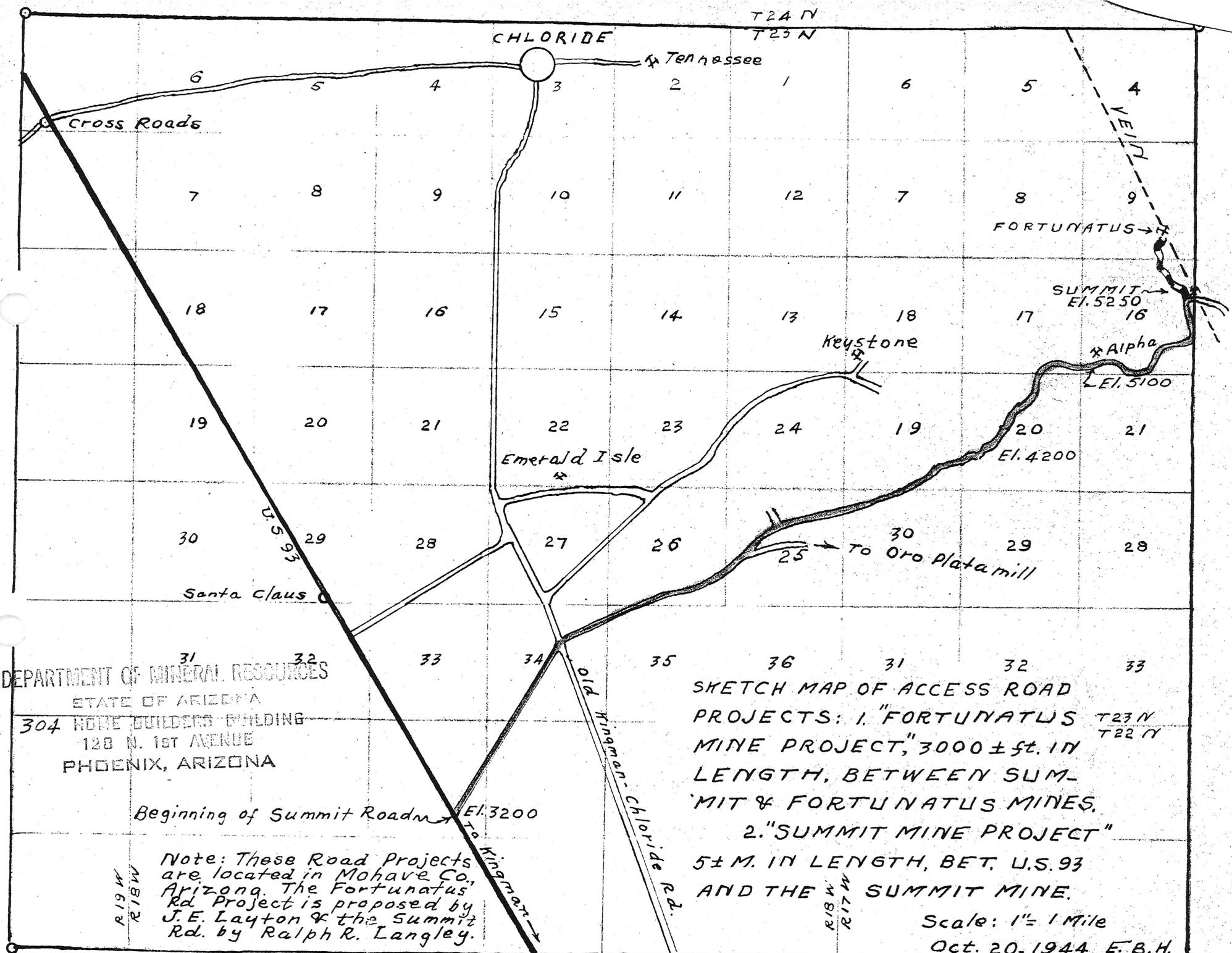
We have also opened up the Alpha workings, which join the Summit and will start making shipments from that workings in a few days. We will start shipping about 30 tons daily or a little more than one car every two days.

Shortly we will be able to produce and ship nine or ten cars of ore weekly. That is a lot of ore to truck over these almost impossible roads. Unless we get some road improvement we will not be able to haul the ore we can produce this winter and in fact may not be able to continue mining.

Respectfully submitted,

/s/ Ralph R. Langley

Ralph R. Langley



DEPARTMENT OF MINERAL RESOURCES
 STATE OF ARIZONA
 304 HOME BUILDERS BUILDING
 128 N. 1ST AVENUE
 PHOENIX, ARIZONA

SKETCH MAP OF ACCESS ROAD
 PROJECTS: 1. "FORTUNATUS
 MINE PROJECT," 3000 ± ft. IN
 LENGTH, BETWEEN SUM-
 MIT & FORTUNATUS MINES.
 2. "SUMMIT MINE PROJECT"
 5 ± M. IN LENGTH, BET. U.S. 93
 AND THE SUMMIT MINE.

Beginning of Summit Road \rightarrow El. 3200

Note: These Road Projects
 are located in Mohave Co.,
 Arizona. The Fortunatus
 Rd. Project is proposed by
 J.E. Layton & the Summit
 Rd. by Ralph R. Langley.

Scale: 1" = 1 Mile
 Oct. 20, 1944, E.B.H.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine FORTUNATUS LODE Date October 20, 1944
District Wallapai, Mohave County, Ariz. Engineer Elgin B. Holt
Subject: R E P O R T

LESSEE: J. E. Layton, Chloride, Arizona.

METALS: Zinc, lead, gold and silver; zinc-lead predominating.

LOCATION - TITLE: This property, consisting of one patented mining claim, covers the northwest extension of the Summit mine, which is located about 15 miles north of Kingman, in the Cerbat Mountains.

Examination: On October 7, 1944, I visited the Fortunatus property, in company with J. E. Layton. The object of my visit was to assist him in making application to the proper authorities for an access road about 3,000 feet in length to his property, said road being described as follows:

Access Road to Fortunatus Mine: Attached hereto is a sketch map I have made of the proposed road. By this map it will be noted that the road in question is an extension of the proposed Summit Mine Access Road project, which has been proposed by Ralph R. Langley, lessee of the Summit property. It is our idea to tie these two road projects together, although separate applications will be made, one by Layton and the other by Langley.

Summit Mine: This property is an old shipper. It is located near the crest of the Cerbat Mountain Range at an elevation of 5,250 feet, more or less. The property is reached from Kingman by following U.S. Highway 93 northwest about 12 miles, thence easterly about 5 miles to the mine. The first three miles of this road traverses a gently inclined mesa country. This section of the road is in good shape and would need very little new work. The last two miles of the road, however, goes up a steep and rugged mountain side. This latter section of the road will require considerable new work and possibly rerouting in places.

Finally, from a point where the road passes the working shaft of the Summit mine, Layton proposes to build about 3,000 feet of new road in a northerly direction to the Fortunatus mine workings, where he plans to sink a new working shaft on vein to a depth of at least two hundred feet, and then do such lateral work found necessary in blocking out ore.

Recent Ore Production from Summit Mine: About January 1, 1944, the Summit Mine was taken over by Ralph R. Langley, of Kingman, Arizona. Attached to this report is a letter from him in which he states in part:

"While developing the Summit mine the past six months, we have produced and shipped 65 cars of ore, or 3,560 tons. The average metal content of the ore shipped being: Gold, 0.0587 (oz.); silver, 5.42 (oz.); copper, 0.63%; lead, 5.73%; and zinc, 7.28%."

October 20, 1944

Potential Ore in Fortunatus Mine: This property is an undeveloped prospect, on which only surface work has been done on vein, showing ore in place. However, the Fortunatus claim covers the northwest extension of the Summit vein which outcrops for the entire length of the Summit claim and can be traced on surface into Fortunatus ground for at least 750 feet. The latter portion of this vein has been prospected on surface by a number of open cuts and test pits showing ore in place in the vein which is from 10 to 14 feet in width. Also, surface work on the Summit vein at the extreme northwestern end of the Summit claim shows a goodly grade of zinc-lead ore, extending into Fortunatus ground.

Hence, from all of the above facts, it is believed when and if the Fortunatus mine is developed along lines planned by Mr. Layton, that this property can be put in shape to produce a very large tonnage of shipping and milling ore, no doubt equaling in grade ores that have been produced through the years from the Summit mine.

Availability of Equipment and Manpower: With reference to this item, I had a talk with Mr. Francis A. Riordan, of the U. S. Grazing Service, Phoenix, Arizona, and he informed me that the Grazing Service had ample equipment and manpower at its disposal with which to complete the access road projects above outlined.

Cost of Fortunatus Road: As stated, this road will have an approximate length of 3,000 feet. I believe this road can be completed so ore and equipment can be hauled over it for around \$3,000.

Elgin B. Holt
Field Engineer

CC: Mr. J. E. Layton

RALPH R. LANGLEY
1045 South Bedford Street
Los Angeles 35, California

P. O. Box 455
Kingman, Arizona

Kingman, Arizona
October 5th, 1944

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Kingman
Arizona

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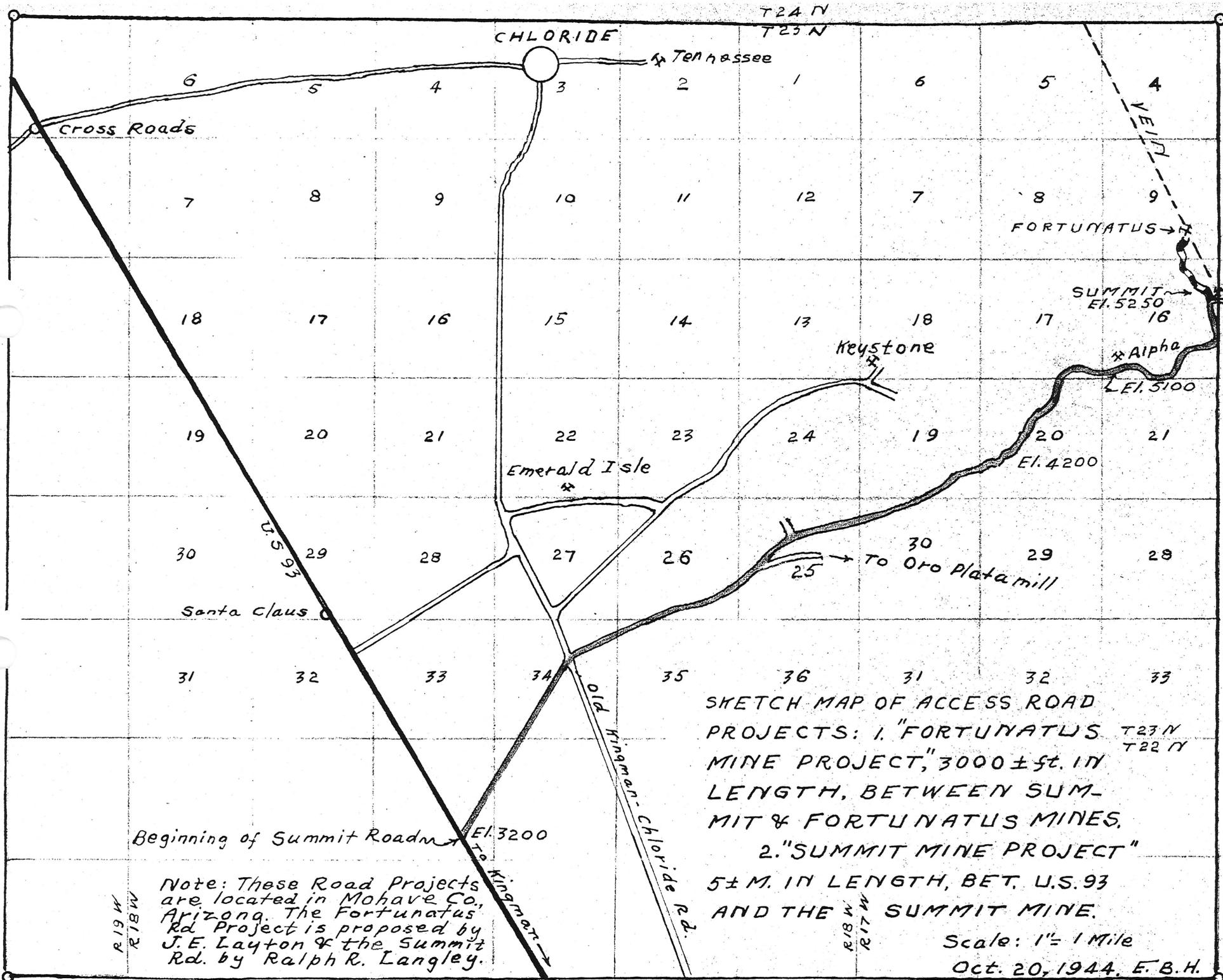
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Respectfully submitted,

/s/ Ralph R. Langley

Ralph R. Langley



SKETCH MAP OF ACCESS ROAD PROJECTS: 1. "FORTUNATUS MINE PROJECT," 3000 ± ft. IN LENGTH, BETWEEN SUMMIT & FORTUNATUS MINES. 2. "SUMMIT MINE PROJECT" 5 ± M. IN LENGTH, BET. U.S. 93 AND THE SUMMIT MINE.

Scale: 1" = 1 Mile
Oct. 20, 1944. E. B. H.

Beginning of Summit Road \nearrow El. 3200 To Kingman \rightarrow

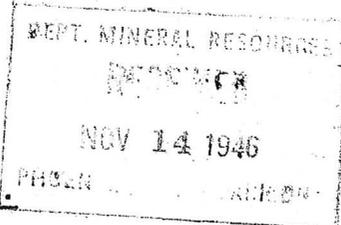
Note: These Road Projects are located in Mohave Co., Arizona. The Fortunatus Rd. Project is proposed by J. E. Layton & the Summit Rd. by Ralph R. Langley.

R16 W
R17 W

R16 W
R17 W

NAME OF COMPANY Ralph R. Langley

NAME OF MINE Summit Mine



(1) Production - January 1st to June 30, 1946, inclusive.

Producers shipping ore direct to smelters or to custom mills use Column No. 1; producers operating their own mill use Column No. 2.

COLUMN NO. 1				COLUMN NO. 2			
Tons	% Cu	% Pb	% Zn	Tons	% Cu	% Pb	% Zn
Crude Ore				Copper Conc.			
2906				Lead Conc.			
				Zinc Conc.			

(2) Average Price Received for Metals in Above Production

This to be the total of the ceiling price plus premiums.

Copper .1223 ¢/lb. Conn. Valley as base
 Lead .0687 ¢/lb. N.Y. as base
 Zinc .0783 ¢/lb. East St. Louis as base

(3) What do you estimate your production would have been, January 1st to June 30, 1946, if the metal price had been:

Cu 14 3/8¢/lb. Conn. Valley; Lead 8.25¢/lb. N.Y.; Zinc 8.25¢/lb East St. Louis (with no premiums)

COLUMN NO. 1		COLUMN NO. 2		
Crude Ore	<u>None</u>	Tons	Copper Conc.	Tons
			Lead Conc.	Tons
			Zinc Conc.	Tons

(4) What do you estimate your production would have been, January 1st to June 30, 1946, if the metal prices had been:

Cu 16¢/lb. Conn. Valley; Lead 11¢/lb. N.Y.; Zinc 9.50¢/lb. East St. Louis (with no premiums)

COLUMN NO. 1		COLUMN NO. 2		
Crude Ore	5000	Tons	Copper Conc.	Tons
			Lead Conc.	Tons
			Zinc Conc.	Tons

(5) If a metal Conservation Price Plan, similar to the present Premium Price Plan, were made permanent for at least five years,

- (a) What would your yearly production of ore or concentrates be: 25,000 to 3500 tons
- (b) Would such a plan cause you to expand your exploration-development program? If so, how much? Yes
- (c) What effect would such a plan have in increasing your ore reserves? Very
- (d) In view of low tariffs, how would such a plan promote a healthy mining industry? It would permit and justify long range planning and preparation for production at lower competitive costs.

ARIZONA METALS COMPANY

DEPARTMENT OF MINERAL RESOURCES

TO ALL PRODUCERS OF COPPER, LEAD and ZINC IN ARIZONA:

This department and others are making strenuous efforts to bring about legislation which will help ameliorate the restrictions and difficulties faced by the producers of copper, lead and zinc, and other strategic minerals.

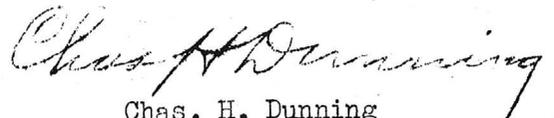
To assist in these efforts it is advisable that we have an authentic survey of the results of the President's veto of the Allen Bill, and the results that would take place if a new bill, such as the Russell Bill, were passed by Congress. The Russell Bill includes all strategic minerals.

While we have all learned to love questionnaires just as we love stomach ulcers, will you please give the answers in your best judgment to the following questions:

1. What was your approximate production in pounds per month for the period preceding the President's veto of the Allen Bill?
(Copper 4,580 Lbs.) (Lead 36,880 Lbs.) (Zinc 58,212 Lbs.)
2. What has been your average production per month since that veto has affected your price?
(Copper 00 Lbs.) (Lead 00 Lbs.) (Zinc 00 Lbs.)
3. What is your estimate of your production per month for the first few months of 1948 if prices remain as they are now and no premiums are in effect?
(Copper 00 Lbs.) (Lead 00 Lbs.) (Zinc 00 Lbs.)
4. What is your estimate of production per month if some incentive plan such as the Russell Bill were in effect?
(Copper 10,000 Lbs.) (Lead 100,000 Lbs.) (Zinc 150,000 Lbs.)
5. General remarks: ~~The above figures represent just about the actual facts.~~

An addressed envelope is enclosed for your convenience, but you will have to help with the stamp.

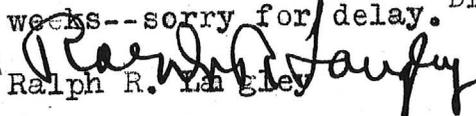
Yours very truly,



Chas. H. Dunning
Director

CHD:mh

Been away for five weeks--sorry for delay.



Ralph R. Langley

Ralph R. Langley,

At the Summit mine located in the Wallapai mining district of Mohave County, operated by / Ralph R. Langley, Box 1266, Kingman, a 500 ft. drift is being driven ^{west} on the 300 level to get under an ore chute which is being worked at a higher level. Considerable other development work is being done in other parts of the mine while some production is being kept up on the 200 level. The R.F.C. is advancing part of the cost of the development work. The drift is being run by C. G. Patterson of Chloride with a crew of local miners. A new mucking machine was recently added to the equipment at the mine. Ore from the Summit is being milled at the Keystone mill in Mineral Park, operated by the Mineral Park Milling Company, owned by D. F. Zlatnik and Frank McEntee.

Miner's World
10-146

Loam

Form 3813

RECEIPT FOR INSURED MAIL

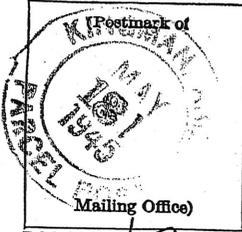
GPO 16-13285

No. _____
 Postage 14 cts.
 Insurance fee paid 10 cts.
 Fragile _____
 Perishable _____
 Eggs _____

DOMESTIC (Including Canada and Newfoundland)

FEE	
5c	Value up to \$5
10c	Value up to \$25
15c	Value up to \$50
25c*	Value up to \$100
30c	Value up to \$150
35c	Value up to \$200
* Maximum chargeable to Newfoundland. Apply at Post office window for information concerning fees applicable to insured mail for foreign countries.	
Fee paid for return receipt	_____ cts.
Restricted delivery fee	_____ cts.
Special delivery fee	_____ cts.
Special handling charge	_____ cts.

Accepting employee will place his initials in spaces applicable to indicate endorsements and insert the fees paid.
 The sender should write the name of the addressee on back hereof as an identification. Preserve and submit this receipt in case of inquiry or application for indemnity. Indemnity claims must be filed within 6 months from date of mailing.

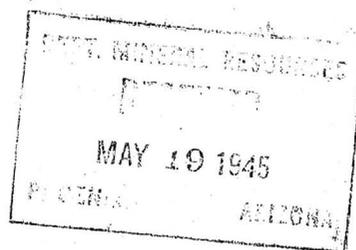


By POSTMASTER

RALPH R. LANGLEY
1045 SOUTH BEDFORD STREET
LOS ANGELES 35, CALIFORNIA

P. O. BOX 1266
KINGMAN, ARIZONA

Kingman Arizona
May 18th, 1945



Mr. C. H. Dunning,
304 Home Builders Building,
Phoenix,
Arizona.

Dear Mr. Dunning;

I am returning the camera to you today as per insured receipt attached. Am enclosing some pictures herewith. Notations on back of each.

In order to show the main road--how it climbs the hill-- the picture I have put together should be touched up and re-photographed. Most any good photographer can do that. Someone at the blue print company there in your building can touch up the road so it will show up clearly in re-photographing. I would have attended to that but there is no one here in Kingman who can do it and it is quite uncertain when I will get back to Los Angeles.

Am shut down for probably three days on account of compressor trouble.

Wish you would let me know when you hear anything more from Washington regarding the premium matter.

Hope these pictures will serve the purpose. Due to the steep grades it is hard to get a view of the road--so only a few of the exposures are useable.

Best wishes,

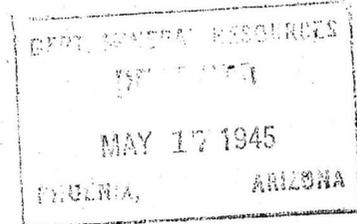
Ralph R. Langley
Ralph R. Langley.

RALPH R. LANGLEY

1045 SOUTH BEDFORD STREET
LOS ANGELES 35, CALIFORNIA

P. O. BOX 1266
KINGMAN, ARIZONA

May 15, 1945

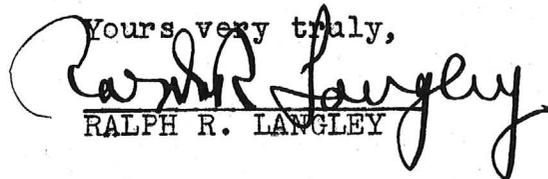


Mr. C. H. Dunning, Director
Department of Mineral Resources
304 Homebuilders Building
Phoenix, Arizona

Dear Mr. Dunning:

Regarding the road and mill pictures, I find that the films are sufficiently clear so that they can be enlarged, the enlarged pictures put together and re-photographed thus getting the desired results. I am having a photographer here do the job and I feel pretty sure that I will be able to send you the pictures by about the 1st of June.

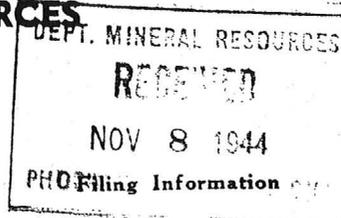
Yours very truly,


RALPH R. LANGLEY

RRL:sb

DEPARTMENT OF MINERAL RESOURCES

**REPORT TO OPA ON
ACTIVE MINING PROJECT**



Date..... November 7, 1944
 Name of Mine..... Alma and Summit Mines
 Owner or Operator..... Ralph R. Langley
 Address..... Box 1266--Kingman, Arizona
 Mine Location..... About 17 miles north of Kingman, Arizona

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
Personal Cars	Compressor 40 H.P.	260 Hours	1300 Gallons
Light or Service Trucks	40 HP	260 Hours	1300 gallons
Ore Hauling Trucks	Compressor 60 HP	260 Hours	1300 gallons
Compressors			3900 gallons for next three months
Other Mine or Mill Eqpt.			

PRODUCT PRODUCED OR CONTEMPLATED: Name metals or minerals.

zinc, lead and silver

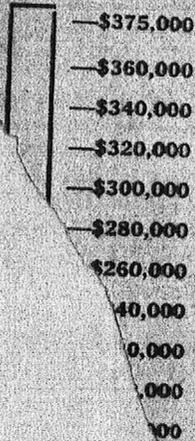
REMARKS:

Has been operating steadily and shipping carlots of ore to Midvale, Utah where ore is treated.

ARIZONA DEPARTMENT OF MINERAL RESOURCES

By..... Ervin B. Holt

Fourth War Loan Thermometer



Summit Mine Shipping Ore

A partnership group of which Ralph R. Langley is the general manager, has begun work at the Summit mine and will start shipments of ore next week. The Summit mine was opened up and further developed during the past year by the El Dorado-Rover Mining company of Nelson, Nev., under a \$40,000 RFC loan. Twenty-seven cars of ore were shipped to Midvale, Utah.

Failure to get the premium payments authorized in time and the unwieldy terms of the RFC loans were responsible for the lessee surrendering its lease.

Langley succeeded in getting the premiums authorized and transferred to his group also in getting the terms of the RFC loan revised on a workable basis.

The old shaft is collapsed above the 160-foot level. The new lessee will sink a winze in the ore shoot from which the 27 cars were shipped, will develop and mine that shoot of ore and upraise to the surface thus providing a new working shaft.

The same group has taken a lease with option on the Keystone mill and will endeavor to obtain some government agency financing to recondition and operate the mill thus having an economical market for their own ore and that of some of the neighbors.

Langley holds the Cashier and Alpha properties under the lease which gives his group a continuous vein system from the foothills on the northwest over and through the Stockton Hill ridge to the southeast. He also holds the Golden Gem and the Idaho properties at Cerbat under lease. Considerable ore has been developed in these several properties, with RFC financing or otherwise over the past several months. If his plans for the Keystone mill are realized an economical market for the ore from these properties will thus be available.

Del Sanderson is in charge of the work.

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