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PRINTED: 11/20/2001

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: LONG TOM

ALTERNATE NAMES:

KNOTHE
ROBERTS GOLD
ROBERTS SILVER
BOULDER PLUG CLAIMS

GRAHAM COUNTY MILS NUMBER: 266

LOCATION: TOWNSHIP 10 S RANGE 20 E SECTION 7 QUARTER NW
LATITUDE: N 32DEG 34MIN 36SEC LONGITUDE: W 110DEG 20MIN 12SEC
TOPO MAP NAME: BASSETT PEAK - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

SILVER
GOLD

BIBLIOGRAPHY:

ADMMR LONG TOM MINE FILE
WILSON, E.D., & OTHERS, AZ. LODE GOLD MINES
AND GOLD MINING, AZBM BULL. 137, 1967, P.194
ADMMR FILE

06/18, 91

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ADMMR FILE

PRINTED: 12-03-2009

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: POWERS

ALTERNATE NAMES:

ABANDONED UNPAT. CLAIMS
BURRO UNPAT. CLAIMS

GRAHAM COUNTY MILS NUMBER: 265

LOCATION: TOWNSHIP 10 S RANGE 20 E SECTION 6 QUARTER W2
LATITUDE: N 32DEG 35MIN 33SEC LONGITUDE: W 110DEG 20MIN 38SEC
TOPO MAP NAME: BASSETT PEAK - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

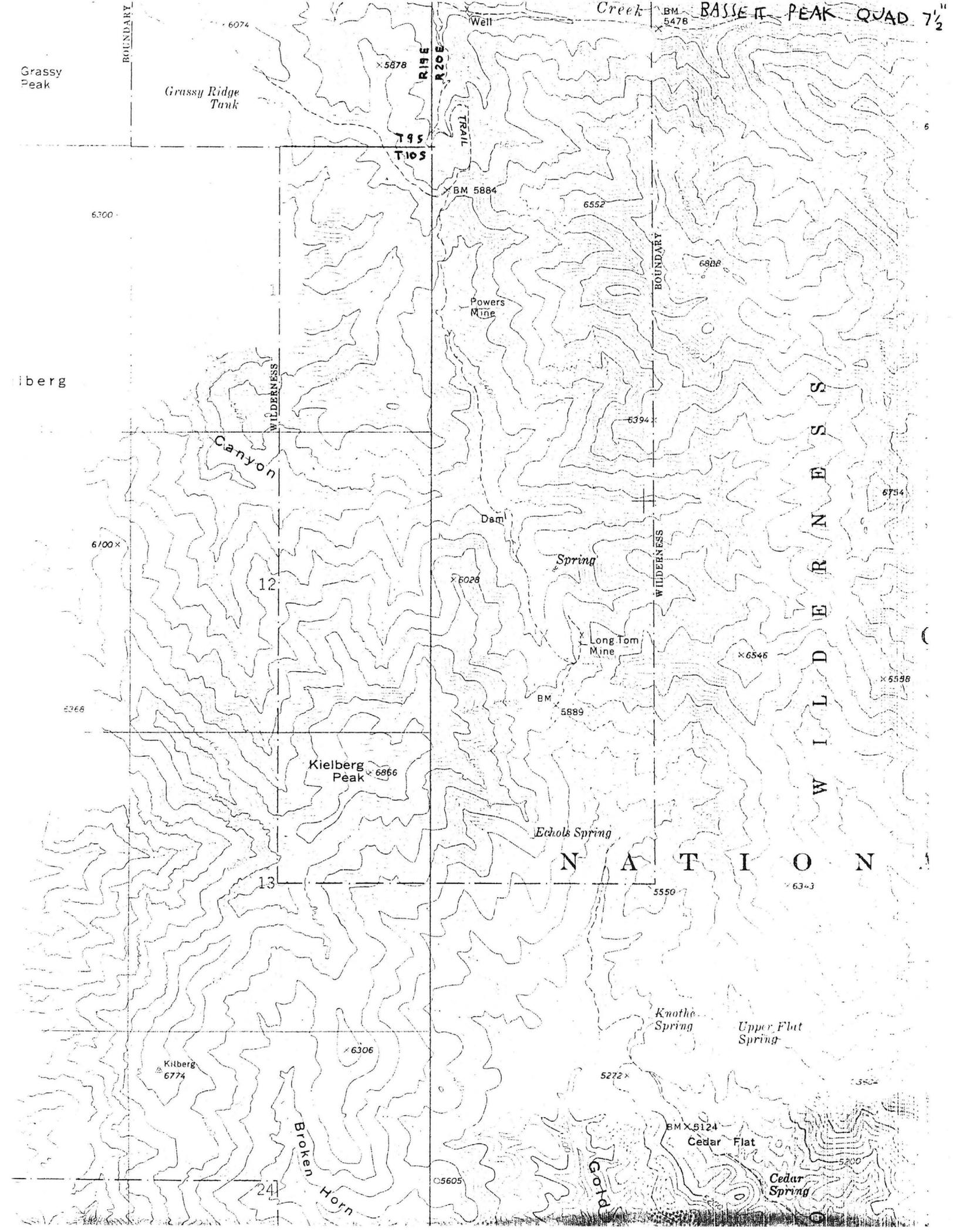
COMMODITY:

SILVER
GOLD

BIBLIOGRAPHY:

SEE: ADMMR LONG TOM MINE FILE (REPORT)
WILSON, E.D., & OTHERS, AZ. LODE GOLD MINES
AND GOOLD MINING, AZBM BULL. 137, 1967,
P. 193-194
ADMMR FILE
BLM AMC FILE 82047
USGS BULL. 1490, P. 31, 32, 72 & MAP P. 74
ADMMR POWERS MINE COLVO FILE

NOT IN WILDERNESS, BUT ACCESS IS "CHERRY STEM" TRAIL
NSP 12/2009



LONG TOM MINE

GRAHAM COUNTY

ABM Bull. 137 p. 193 (194)

E&MJ Vol 73 p. 546

USGS Bul. 1490, p. 32, 73, map-76, 77

MILS Sheet sequence number 0040090195

Knothe Mine Card (1960)

MAP - Upstairs in the ABM rolled file boxes - map is called the Consolidated Gold Mountain Mining Co and is described in the 1935 Engineers Report in this file.

KNOTHE MINE

Interview with Marcotte at Klondyke. Bush and Casper Mines. Hg,Au-& Ag. Includes Powers, Knothe, etc., claims. Mines are at upper headwaters of Rattlesnake Creek, east of Gold Mountain drainage W to N to Pipestem Canyon and Squaw Creek. Rugged country.

Knothe mine, in Bush's hands, is in rugged country. Needs $\frac{1}{4}$ mi of road that Marcotte estimates would cost \$15,000. He also estimated that it would cost \$25,000 to fix present road which has up to 40% grade. They have machinery. Bush's address is Thatcher.

F. P. KNIGHT - Field trip - 1-7-60

KAP WR 4/17/80: In a telephone conversation with Robert R. Roberts, 644 West Main Street, Box 50, Mesa, Arizona, 85201, phone 969-1806, he reported on activities at his claims in Galiuro Mountains, Gold Mountain District, Graham County. He reported that he holds the BOULDER PLUG CLAIMS, which are the old LONG TOM property. His assays ran between 4-5 tr.oz.Au/Ton and 100+ tr.oz./Ton. He continued to explain that the gold is contained in disseminated pyrite and silver in a siliceous zone. There are alteration zones up to 50 feet on each side of the mineralized structure and two generations of mineralized fragmented and decomposed quartz. The rock does not show obvious signs of mineralization.

See: A.B.M. Bul # 137 p 194

LONG TOM MINES

GRAHAM COUNTY

KAP WR 12/4/81: The Forest Service - Zone mineral office reported an exploration drilling project is planned for the Powers Mine, Rattlesnake District, Graham County. The project includes road repairs and diamond drilling of shallow holes on a mineralized rhyolite structure. A consultants report on the property was obtained for the file.

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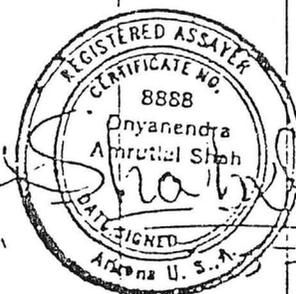
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DNYANENDRA A. SHAH
ARIZONA REG. NO. 8888

Mr. John Kasprowicz
1657 N. Palo Verde
Tucson, Arizona 85716

JOB # 026163
RECEIVED 4-22-81
REPORTED 5-1-81

SAMPLE NUMBER	Au ppm	Ag ppm	Au oz/T	SAMPLE NUMBER	Au ppm	Ag ppm
NGM 1	> 2.00	< 1	0.069	SGM		
2	0.34	< 1		(41181) 6	0.20	< 1
3	> 2.00	< 1	0.250	(41181) 7	0.01	< 1
4	0.24	< 1		(41181) 8	0.09	< 1
5	0.05	< 1		9	0.06	< 1
P 1	< .01	< 1		10	0.88	< 1
2	0.01	1		11	< .01	< 1
3	< .01	1		12	0.10	< 1
4	< .01	< 1		EXP SAMPLE	0.01	< 1
6	0.02	< 1		EX 5	< .01	2
7	0.01	< 1		SGM		
8	0.89	< 1		(41281) 6	< .01	< 1
9	> 2.00	7	0.142	(41281) 7	< .01	6
10	< .01	< 1		(41281) 8	0.08	4
615	< .01	< 1				
LT 1	< .01	< 1				
2	< .01	< 1				
3	< .01	< 1				
4	< .01	< 1				
5	< .01	1				
6	< .01	< 1				
7	0.01	< 1				
8	< .01	< 1				
2/9	1.25	16				
2/10	0.01	< 1				
SGM 1	0.05	< 1				
2	0.14	< 1				
3	0.02	< 1				
4	0.01	< 1				
5	0.42	< 1				



1 ppm = 0.0001% 1 troy oz./ton = 34.286 ppm 1 ppm = 0.0292 troy oz./ton
* Gold and Silver reported in troy oz. per 2,000 lb. ton.

the fault had been mined away leaving the hanging wall exposed. The cross-cut ran along the fault for approximately 30 ft. where it intercepted an area which has been stoped out upwards and downwards along the fault face. This cross-cut ran for another 55 ft. and ended. The second cross-cut is located 170' from the entrance and extends in a southerly direction for 50'. The rock type is consistent with the other mines, showing signs of alteration and hematite staining. The Rhyolite is well fractured, with disseminated sulfides and minor manganese on fractures. A total of 10 samples were taken from this area; all show detectable gold, running from .01 ppm to 5 ppm (.142 oz/ton).

CONCLUSION:

The preliminary study of this area and its workings indicates a favorable setting for an economical ore body near the surface. General reconnaissance has indicated by the 42 samples taken that 26 showed detectable gold values and 4 of these showed rock which would be economical to mine at today's prices. These 4 samples are not high grade and are representative of areas ranging from 4-5' and can be extrapolated for many feet back into the mountain side. They range in value from \$24 a/ton rock for sample LT 2/9 to \$125 per ton for sample GMN 3. After considering this data I feel that further work in this area is necessary to determine how extensive this mineralization is. This could be accomplished by a more extensive sample survey which would indicate if all of the Rhyolite intrusive is mineralized and an exploratory drilling project which is in the intrusive.

It is evident from panning the 1/4 oz/ton sample that the gold values are carried with the Iron sulfide mineralization. This is favorable in that all of the Rhyolite intrusive shows minor disseminated sulfides and that at depth the values could increase as the sulfide percentage increases. The exploration of the intrusive by means of surface sampling and drilling is important to determine its full potential.

Another factor to consider in determining the potential of this property is the past mining activity in this area which indicates that ore grade material was shipped for processing.

are a good indicator that the mineralization is present and can be traced throughout the whole workings.

LONG TOM 1 & 2

These workings are located on the west side of a north/south running slope. The LT 1 consists of one main adit extending in an easterly direction of N 85°E. The working extends straight back without any further exploration from this main drift. A total of 8 samples were taken from this mine; all samples contained little or no gold of interest. The rock type is consistent with the other mines inspected in the area. The Rhyolite contains slightly altered feldspars, possibly sericitic alteration with limonite staining on fractures. Disseminated sulfides are also present but are slightly more oxidized than at the other workings. The drift also cross-cuts shear zones in the Rhyolite which are filled with a gouge material.

The Long Tom 2 workings were also located on the same hillside about 300' due north of the LT 1 on the same trail. The workings consisted of what appeared to be an incline which was inaccessible because the entrance had caved in. The rock type of this mine was similar to that of the LT 1. The adit explores a rock face which has no apparent structures visible. A total of 2 samples were taken from this area, (LT 2/10) from above the caved entrance which showed a small amount of gold and the second, (LT 2/9), which show 1.25 ppm.

THE POWERS MINE

The workings consisted of the main adit which extended in a N 85°E direction for 300'. There were two cross-cuts which ran approximately north/south. The first cross-cut was located 130' in from the entrance and drifted along a fault face, (strike N 30°W dip 57°W), which had been cut by the main drift. The foot wall of

MINING HISTORY/PRODUCTION

The production records for the Gold Mountain, Long Tom 1 and 2 and the Powers mine show that ore was shipped from these mines at various times. In most cases the ore ran very high in silver and gold, which indicates that most of the ore was hand sorted and only the high grade was hauled out to the smelter. These figures were encouraging in that they show that there was production to the point that the Powers had installed a 20 ton capacity ball mill for processing the ore. The Powers Mine was also later incorporated in 1939 by the Powers Gold Mining and Development Company (which shipped ore in 1940). The production records show 105 ounces of silver and 82 ounces of gold.

REGIONAL GEOLOGY

General reconnaissance of Rattlesnake Canyon and the surrounding areas show that the canyon is a product of a large fault which runs the length of the canyon in a north-south direction. Along the Eastern side of the canyon wall is an area of Red Hematite staining and sharp topography, which extend from the GMN mine on past the Long Tom 1 and 2. This extensive area, which contains all of the workings mentioned in this report, is a Rhyolite intrusive which characteristically has disseminated sulfides, red hematite staining and is well fractured. This same intrusive also contains detectable gold as shown by our assay results. Surrounding rock units were that of andesite and basalt composition making the Rhyolite intrusive very evident.



COE & VAN LOO
CONSULTING ENGINEERS INC.
ENGINEERING · PLANNING

OF COUNSEL
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March 19, 1979

Mr. Don Gustafson
Homestake Mining Company
35 North Edison Way
Suite 3
Reno, Nevada 89502

Dear Don:

On Saturday March 17, 1979 I drove to Winkelman and took a preliminary look at the J.K.C & S claims in the Banner Mining District.

I couldn't find any exposures of anything like a huge diabase dike cutting through the J.K. C & S claims.

The area of the claims however covers the interface between the underlying limestones and the volcanics. It is not known if the limestone replacements of the district extend out under the volcanics.

The limestones exposed look, to me, like the Naco which is higher in the section than the producing beds of the Martin Ls. on the Naco.

I am attaching copies of the original ADMR file which you reviewed and sections from ABM bulletins.

There is a new (1950?) USGS PP on the Christmas Quad that would also make good reading.

Under separate cover I am sending two samples. One is a sample of gossan from the New Year Mine and the other a small copper stained in the SE 1/4 of Sec. 36 T4S R15E.

I do not suspect this property of being the zinger you are looking for.

Very truly yours,

COE AND VAN LOO
Consulting Engineers, Inc.

H. Mason Coggin, P.E. & L.S.

HMC:jp
Encl. maps & reading material

INTRODUCTION

The general purpose of this investigation was to evaluate the Powers, Long Tom One and Two and the Gold Mountain (north and south) mine, which are located approximately 65 highway miles from Safford, Arizona. The property, which is part of the Rattlesnake mining district and located in Graham County, Arizona, can be viewed on the United States Geological Survey, Bassett Peak Quadrangle topographic sheet (7.5 minute series). Access to the area is accomplished by taking highway 70 from Safford, AZ for 25 miles to a dirt road turn off, which will take you to Klondyke, Arizona. From here a rough trail may be taken due south for 25 miles, which proceeds along Rattlesnake Mesa down into Rattlesnake Canyon to reach the area which consists of approximately 118 mining claims. The claim block extends for 6 miles south into Rattlesnake Canyon and covers an area 3,000 ft. wide, extending 1,800 east and west from the Canyon floor into the foothills. The claim block encompasses all of the mine workings, which were evaluated on the three day trip into the area.

The purpose of this reconnaissance was to determine the potential of the area through inspection of the mines and sampling of the area. Initial work started on April 10, 1981 and was completed on April 12, 1981. The sampling would help to determine the nature and economic significance of past production records which show gold and silver had been shipped from this area from 1923 to 1934.

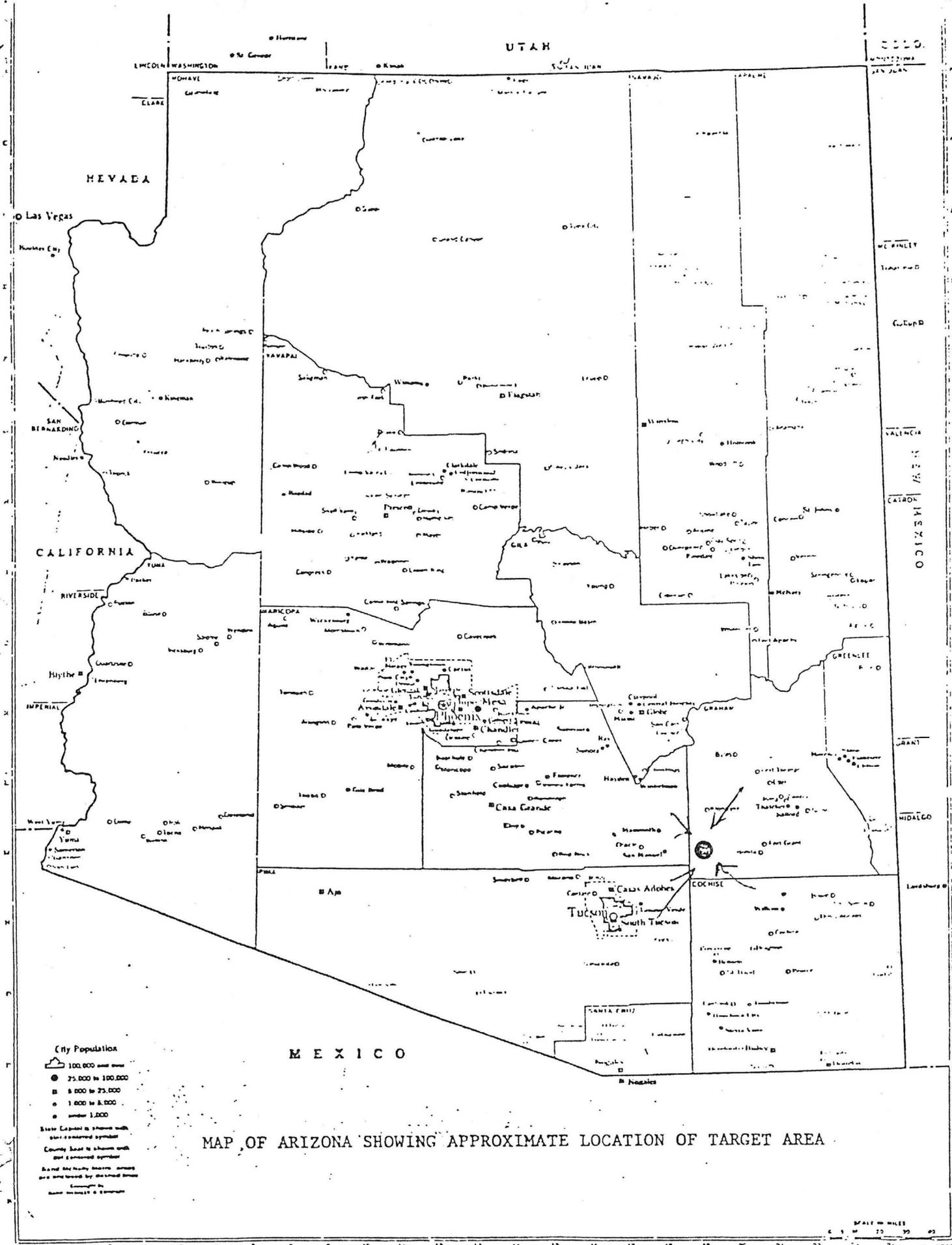
PJT 20 10/10/10 10/10/10

10/10/10

GEOLOGIC EVALUATION OF THE POWERS MINE,
LONG TOM ONE AND TWO AND GOLD MOUNTAIN (NORTH/SOUTH)

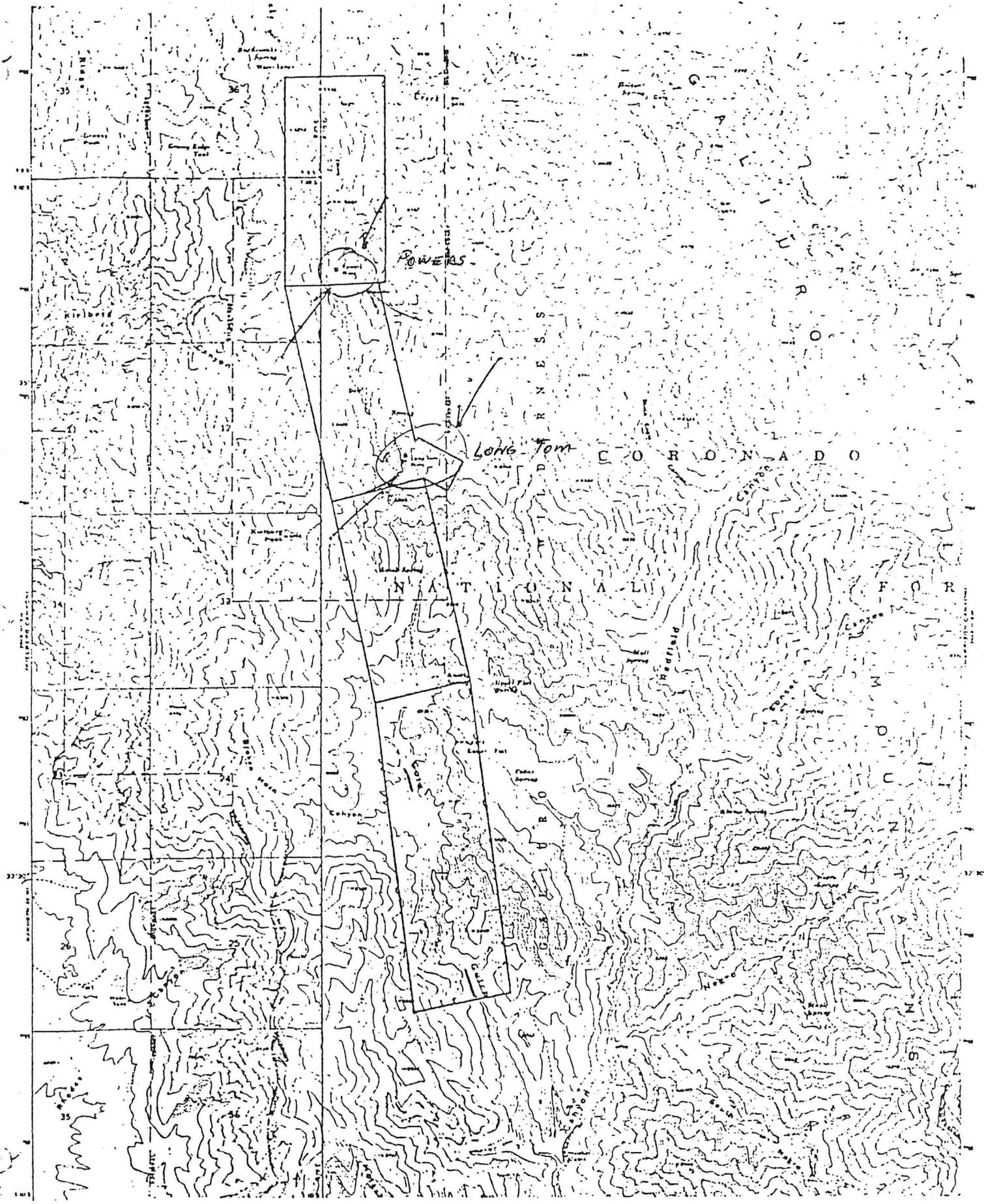
BY: John Kasprowicz
Geologist





MAP OF ARIZONA SHOWING APPROXIMATE LOCATION OF TARGET AREA

SCALE IN MILES
 0 5 10 15 20 25 30 35



U.S.G.S. MAP SHOWING LOCATION OF CLAIM BLOCK IN RATTLESNAKE CANYON

ENGINEERS REPORT
Consolidated Galiuro Gold Mines Inc.
Graham County, Arizona
July 1, 1935

The properties of the Consolidated Galiuro Gold Mines Inc. is located twenty miles south of Haby's Ranch in the Galiuro Mountains along the divide which separates the drainage systems of Rattlesnake and Kilberg Creeks.

The properties consists of, seven unpatented claims as follows; Abandon Nos 1, 2, 3, and 4, Burro, Sunshine and Moonshine claims. Also included in these report is the Gold Mountain Property, which adjoins the Burro Claim in the north. The Gold Mountain holdings are all on the north side of the divide in the Rattlesnake drainage system.

The ore bodies consisting of gold and silver are found in fracture zoned in the brecciated intrusive rhyolites. Originally, the rhyolite was barren, but the rejuvenation of volcanism within the area developed siliceous ore magmas carrying gold, silver, and sulfides of iron and copper. These magmas invaded the fracture zones re-cementing the broken, barren country rock, the more intensive the fracturing the better the gold and silver values.

Considerable exploratory work during the past thirty years has in the main been disappointing to the operators, but has disclosed the fact that gold and silver ores of commercial grade under present prices are to be found along the strike of the principal fracture zone. The lateral extent of the ore occurrence as proven by the work of prospectors and small operators warrants the assumption that important ore bodies can be developed by an intelligent campaign of exploration.

Most of the development to date has been done on the Powers Mine, now under option to the Consolidated Galiuro Gold Mines Inc., the Gold Mountain Claims to the north and the Knothe Property to the south. I didn't examine the Knothe as it is under option to other parties.

I took fifteen pilot samples from the Powers Mine, one of which no. 11 was lost by the Assayer. The other results follow. (next page)

NO.	GOLD	SILVER	VALUE PER TON
1.	0.02	Trace	\$.70
2.	0.48	0.18	16.93
3.	1.24	0.64	43.87
4.	0.04	Trace	1.40
5.	0.09	0.31	3.40
6.	0.07	Trace	2.45
7.	Trace	Trace	-----
8.	0.17	Trace	5.95
9.	Trace	Trace	-----
10.	0.02	Trace	.70
11.	0.20	0.22	7.17
12.	0.69	1.51	25.30
13.	0.24	2.24	10.10
14.	0.08	1.72	4.10

			\$122.07

Note: These values based on gold --\$35.00 per oz. and silver--\$.77 per oz.

LOCATION

1. 6 ft. cut left side drift NW, 85 ft. Level with, near face.
2. 6 ft. cut 6 ft. SE # 1 on left side of drift.
3. 6 ft. cut 6 ft. SE # 2, left side of drift.
4. Average face of drift SE 85 ft. Level with, 6 ft. from #3.
5. Average muck from NW face drift 85 ft. Level.
6. 5 ft. cut NW face under hand stope, 35 ft. Level with.
7. Face drift SE main tunnel Level.
8. Mick shot from surface exposure vein, 175 ft. above tunnel.
9. Surface outcrop, small vein, west side of trail near N end of Moonshine claim.
10. Coarse unmineralized reject tunnel dump.
11. Fines from tunnel dump.
13. Fines from dump above arrasta.
14. Coarse ore dump above arrasta
15. Coarse ore dump above arrasta.

GOLD MOUNTAIN

The Gold Mountain workings are on the same general fracture zone as the Powers Mine, but not on the same fault. The Gold Mountain Claims join the Burro Claims on the north. Two tunnels have been driven into the mineralized zone, one from the south and one from the north side of rattlesnake Canyon. The tunnel driven into the south wall of the canyon is 175 feet from the portal, a drift was run 40 feet south, 37 east. One hundred feet from the portal a drift runs 50 feet south, 73 west, than 50 feet farther due west. At the point where the drift changes its course a drift runs 21 feet south, 67 east. On the north side of the canyon a tunnel is driven 47 feet north, 10 west.

Forty feet west of the portal of the south tunnel a shaft has been sunk 40 to 50 feet and some drifting done. The amount could not be determined because of water below 30 feet from the surface and, in the tunnel, near the portal a winz has been sunk which is full of water. Nearly all this work was done thirty or more years ago so I could get no reliable report, fifteen to twenty pans of screened dump material all showed from a few colors to surprisingly good strings of gold. One end of the dump had been worked by a dry washer who had left approximately fifty tons of reject coarse material. Dump ore that can be worked with a dry washer must be pretty good ore. I was told that the operator got six ounces or about \$ 210.00 worth of gold This would be from the fines only and surely not more than 50% of the total gold. On this basis, assuming he handled 50 tons, the ore worked should run about \$8.00 per ton. I took no assays because the panning showed the well distributed presence of the gold and to sample this ore body in a way to an accurate estimate of its value would require much more time and expense than is warranted in a preliminary examination.

The factors of prime importance are that on both the Powers, and the Gold Mountain mining properties the gold values are widely distributed, easily mined, easily separated from the rock gangue and the ore bodies are of sufficient grade and size to warrant further development.

Development should be accompanied by careful systematic sampling with an assayer with good field laboratory on the ground. If sampling shows the Gold Mountain dump to be of commercial grade there is sufficient ore opened in the workings to warrant the immediate erection of a fifty ton pilot mill. Such a mill would facilitate the testing out of new ore and through the milling of small lots of custom area other potential mines might be discovered in the district.

PLAN OF DEVELOPMENT

The Ingersol-Rand Portable Compressor now owned by the company is just right for surface exploration, open cuts, road work, etc. This equipment should be kept on the Powers property for development as follows:

1. Work in the tunnel to cut the vein below #8 Assay.
2. Surface cuts and exploration at shaft north of Abandoned tunnel.
3. Open cuts both hanging and footwall sided of fractured zone north of the gulch north of "Abandoned" tunnel.
4. Drive a raise on the ore chute above the winz, main tunnel.

If Gold Mountain proves commercial as I believe it will, then a good sized power plant capable of developing 100 horsepower and four to five hundred cubic feet of air per minute should be installed at the tunnel and work started both north and south. The south tunnel should be extended under the Powers property as rapidly as possible, because much ore would probably be developed and a haulage way across the divide would be provided for the Powers Mine ore.

The mill should be equipped with Diesel power and any type of good secondhand primary crusher, a Kennedy-Van Saun, Symonds, or Farenwold secondary crusher and any good type ball mill for fine grinding and a Dwrr type Classifier. Amalgamation followed by cyanidization or flotation should be used to recover the gold and silver. It may be found that much of the coarse rock is non-commercial while the fines carry the commercial values. If this proves to be true, grizzlies and ore bins should be installed at the mine so that as mine run rock is dumped from the tram cars, the coarse material will go to the waste dump and the fines to the ore bin.

The cost of this work should be approximately as follows;

Road-----	\$15,000
Equip-----	\$15,000
Dev-----	\$25,000
Mill-----	\$25,000 or \$35,000

	\$80,000 or \$90,000
	min max

The properties discussed in this report are fine prospects and warrant the expenditure necessary to carry out the programs.

This report was retyped from it's original photo copy by Tina Mendoza 1-9-02

MINE DESCRIPTION AND OBSERVATION

During the three days spent in Rattlesnake Canyon the Powers, Gold Mountain (north/south) and the Long Tom 1 and 2 were visited and sampled. The descriptions of these mines are as follows:

Gold Mountain North (GMN): The GMN adit is approximately 50 ft. deep in a N7°E direction. The drift follows what looks to be shear zones in the hematitically stained Rhyolite. Many of the shear zones are filled with a clay gouge material, gray in color. Along these zones are slickenside, showing evidence of movement. The Rhyolite is argillically altered and show signs of being well fractured with hematite and manganese dioxide along fractures. The Rhyolite also has disseminated iron sulfides, many of which have been oxidized or leached by weathering; which has produced box work along with the evident hematite staining. From the mine a total of 5 samples were taken, 3 show detectable gold, and 2 of the samples show .069 oz/ton and .25 oz/ton. The last two samples are notable because they are representative of a large area and show that mineralization is disseminated into the surrounding country rock.

Gold Mountain South (GMS): The GMS main adit extends in a S7°W direction for 185 feet. Along this adit are 3 drifts, one located approximately 80 ft. from the portal extending in a easternly direction, the second is located at 100 ft. and extends in a westernly direction and the third is located at 160' from the entrance and extends in a westernly direction.

The workings explore the same structure as the GMN adit and are located directly across a wash on strike with the GMN workings. The rock type and characteristics of the GMS workings are exactly the same as that of the GMN mine. The Rhyolite rock is argillically altered and fractured with hematite and manganese staining on fractures. The rock contains disseminated sulfides which are partially oxides. A total of 12 samples were taken from these workings. All 12 samples showed detectable gold ranging from .01 ppm to a high of .88 ppm. In this case the gold values

SAMPLE LOCATIONS AND DESCRIPTIONS

NGM 1/.002 ppm/.069 oz/ton Sample taken on face of North Gold Mountain adit, 5 ft. horizontal channel chip in Rhyolite, altered feldspars, Manganese and Hematite stain on fractures, disseminated sulfides.

NGM 2/.034 ppm/.0099 oz/ton Sample taken on right rib of NGM adit, 4 ft. horizontal channel chip, disseminated sulfides with Manganese and Hematite stain on fractures.

NGM 3/.002 ppm/.25 oz/ton Sample taken at portal of NGM adit, 4 ft. horizontal channel chip taken perpendicular to shear zone in Rhyolite, rock has disseminated sulfides, Manganese and Hematite on fractures.

NGM 4/.024 ppm/.007 oz/ton Random dump sample from NGM. Rhyolite with Manganese and Hematite stain on fractures.

NGM 5/.05 ppm/.00146 oz/ton Random dump sample from NGM, Rhyolite with Manganese and Hematite stain on fractures.

Powers 1/.01 ppm Sample from Powers Mine, taken in stoped out area off of the first drift to right, 5 ft. horizontal channel chip, crosscutting fault zone structure, Rhyolite with Iron Oxide stain.

Powers 2/.01 ppm Sample from Powers Mine, taken from brown muddy gouge material which fills fault zone, zone 1" - 3" wide.

Powers 3/.01 ppm Sample from Powers Mine, taken from face of first drift to right, drift runs parallel to hanging wall, sample of Rhyolite, Iron oxide stain, 4 ft. horizontal channel chip.

Powers 4/.01 ppm Sample from Powers Mine, taken near end of main adit on right rib, 6 ft. horizontal channel chip across zone of Iron oxide stain, Rhyolite has minor sulfides and quartz veins.

Powers 5/.01 ppm Sample from Powers Mine, taken on right rib of main adit approximately 20 ft. from face, 6 ft. horizontal channel chip, sample crosscuts string from Iron oxide in altered Rhyolite.

Powers 6/.02 ppm/.0006 oz/ton Sample from Powers Mine, taken from main adit on left rib, Rhyolite material, Iron oxide stain, 7 ft. horizontal channel chip sample.

Powers 7/.01 ppm Sample from Powers Mine, taken from second crosscut about 40 ft. east of first crosscut, sample consists of a Rhyolite material with Iron oxide stain on fractures, sample from fracture zone, approximately 5 ft. wide horizontal channel chip.

SL THL. STERN ASSAYERS - CHE.ISTS, INC.

P. O. BOX 7517
 TUCSON, ARIZONA 85725
 PHONE 602-884-5811. 884-5812

BILL TO:
 Mr. John Kasprovicz
 1657 N. Palo Verde
 Tucson, Arizona 85716

INVOICE: S	3160
JOB NO: <u>026163</u>	
DATE: <u>May 1, 1981</u>	
ACCOUNT NO: _____	
P. O. NO: _____	
PROJECT: _____	

COPY TO:

PAY FROM THIS INVOICE — NO OTHER STATEMENT WILL BE SENT					
ANALYTICAL CHARGES				OTHER CHARGES	
QUANTITY	DESCRIPTION	UNIT COST	AMOUNT	DESCRIPTION	AMOUNT
42	Gold & Silver	\$5.00	\$210.00		
3	Gold - F.A.	6.00	18.00		
ANALYTICAL CHARGES				OTHER CHARGES	
TOTAL ANALYTICAL CHARGES				\$228.00	PAY THIS AMOUNT
					PAID \$228.00

Thank You M. A. Shah

* LESS 3% DISCOUNT NET TEN DAYS

Powers 8/0.89 ppm/.026 oz/ton	Sample from Powers Mine dump, random dump sample, consists of Rhyolite with Iron oxide stain, altered.
Powers 9/2.00 ppm/.142 oz/ton Ag/7 ppm/.204 oz/ton	Sample from Powers Mine dump, random dump sample of Rhyolite, Iron oxide stain.
Powers 10/0.01 ppm	Sample from Powers Mine, taken from red Hematite stain, Rhyolite material just below hanging wall located in first crosscut, which drifts along this material exploring hanging wall of fault, vertical channel ship across unit.
Long Tom 1/0.01 ppm	Sample from Long Tom 1 mine, taken from face of main adit, 4 ft. horizontal channel chip from face consisting of altered andesite with calcite veinlets
Long Tom 2/0.01 ppm	Sample from Long Tom 1 mine, taken from right rib of main adit, 2 ft. horizontal channel chip, sample crosscuts shear zone with gouge material, located in andesite with quartz and calcite veinlets.
Long Tom 3/0.01 ppm	Sample from Long Tom 1, taken from left rib of adit, 4 ft. horizontal channel chip, sample consists of fractured andesite with sugar quartz and calcite veinlets on fractures.
Long Tom 4/0.01 ppm	Sample from Long Tom 1, taken from right rib of adit, 1 ft. horizontal channel chip across structure, consists of altered andesite with calcite and quartz veinlets, limonite and jarosite on fractures.
Long Tom 5/0.01 ppm	Sample from Long Tom 1, taken from right rib of adit, 4.5 ft. horizontal channel chip across gouge material material consists of altered andesite with small limonite and calcite veinlets.
Long Tom 6/0.01 ppm	Sample from Long Tom 1, 20 ft. horizontal channel chip taken across structure, consisting of shear zone and fractured andesite with small calcite veinlets, limonite stain on fractures, small quartz crystals.
Long Tom 7/0.01 ppm	Sample from Long Tom 1, 4 ft. horizontal channel chip which consists of andesite with small quartz and calcite veinlets.
Long Tom 8/0.01 ppm	Sample taken from Long Tom 1 mine- horizontal channel chip, 8 ft. long over portal on main adit. Rhyolite with quartz veinlets.
Long Tom 2, sample 9/ 1.25 ppm/ .0365 oz ton/ Ag/ 16 ppm/.47 oz/ton	Random dump sample from dump of Long Tom 2 mine; material consists of Rhyolite with relic sulfides, altered, iron oxide stain.
Long Tom 2, sample 10/ 0.01 ppm	Sample from Long Tom 2 mine, taken from portal over back of caved incline; horizontal channel chip Rhyolite with quartz, maybe chalcopyrite or bornite.

SGM 1/ .25 ppm / .0015 oz/ton

Sample from South Gold Mountain Mine, taken from face of first cross-cut which extends in southerly direction for 35 ft. 5 ft. horizontal channel chip in Rhyolite across zone of Iron oxide stain, disseminated sulfides.

SGM 2/ .14 ppm/ .004 oz/ton

Sample from South Gold Mountain Mine, taken from right rib of second cross-cut. Rhyolite material with hematite stain, iron oxide, manganese on fractures.

SGM 3/ .02 ppm/ .0006 oz/ton

Sample from South Gold Mountain Mine, taken from face of drift off of second cross-cut. 8 ft. horizontal channel chip across shear zone with brown clay gouge material.

SGM 4/ .01 ppm

Sample from South Gold Mountain Mine, taken from right rib of drift off of second cross-cut. Rhyolite material with possible flow banding with iron oxide and manganese on fractures.

SGM 5/ .42 ppm/ .0123 oz/ton

Sample from South Gold Mountain Mine, taken at intersection of second cross-cut and first drift, taken off right rib. 6 ft. vertical channel chip, Rhyolite with iron oxide stain with manganese on fractures, altered seam of material.

SGM 6/ .20 ppm/ .006 oz/ton

Sample from South Gold Mountain Mine, taken from right rib of second cross-cut, 4 ft. horizontal channel chip; consisting of altered Rhyolite with Iron oxide and manganese on fractures.

SGM 7/ .01 ppm

Sample from South Gold Mountain Mine, taken from left rib of second cross-cut, 8 ft. horizontal channel chip consisting of altered Rhyolite material with Iron oxide stain, fractures with sulfides and relic sulfides.

SGM 8/ .09 ppm/ .0026 oz/ton

Sample from South Gold Mountain Mine, taken from face end adjacent to face of second cross-cut; 5 ft. horizontal channel chip, consisting of altered Rhyolite with Iron oxide stain on fractures; Argillic alteration relic sulfides.

SGM 9/ .06 ppm/ .0018 oz/ton

Sample from South Gold Mountain Mine, taken from right rib of main adit - 15 ft. horizontal channel chip, altered Rhyolite with hematite stain and relic sulfides.

SGM 10/ .88 ppm/ .026 oz/ton

Sample from South Gold Mountain Mine, taken from right rib of main adit, 7 ft. horizontal channel chip, Rhyolite material with Iron oxide stain on fractures, sulfide, no manganese.

SGM 11/ (.01 ppm)

Sample from South Gold Mountain Mine, taken from face of third cross-cut. 3 ft. horizontal channel chip consisting of Rhyolite with Iron oxide stain on fractures, sulfide, relic and disseminated.

SGM 12/ 0.1 ppm

Sample from South Gold Mountain Mine, taken from left and right ribs adjacent to face of main adit.

SGM 12 con't

Horizontal channel chip which cross-cuts same structure
9 ft. in total channel chip, fractured Rhyolite with
Iron oxide stain with relic sulfides.

EXP Sample/ 0.01 ppm

Sample area located 250 ft. north of Long Tom 2 on
road cross-cutting hill. Rhyolite with relic sulfid
and quartz and calcite veins, box work, Iron oxide
stain.

Ex 5/ .01 ppm

Sample submitted by Joe Morrison. Iron oxide and
stain on rock.

SGM 6/ (.01 ppm

Sample taken from South Gold Mountain Mine, taken fr
small prospect pit located over SGM portal. 4 ft. h
zontal channel chip, Rhyolite material, Iron oxide
stain.

SGM 7/ (.01 ppm/ Ag/ 6 ppm/
.175 oz/ton

Sample taken from South Gold Mountain Mine, taken fr
back over portal entrance to mine. Rhyolite materia
Iron oxide stain.

SGM 8/ .08 ppm-Ag/ 4 ppm/
.117 oz/ton

Sample from South Gold Mountain Mine dump, random du
sample of Rhyolite with Iron oxide stain.

LINE NAME - GOLD MIN
 LINE OPERATORS - MACLYN ARBUCKLE

YEAR	ORE TYPE	ORE TREATED (SHORT TONS)	COPPER (POUNDS)	COPPER (DOLLARS)	SILVER (OUNCES)	SILVER (DOLLARS)	GOLD (OUNCES)	GOLD (DOLLARS)	YEARLY VALUE ALL METALS
1932	NG	1.	0.	0.	0.	0.	1.	21.	21.
1933	NG	1.	0.	0.	0.	0.	1.	21.	21.

LINE NAME - LONG TON
 LINE OPERATORS - ED KNOTHE
 10 S 20 E 7 NW (GRAHAM CTY)

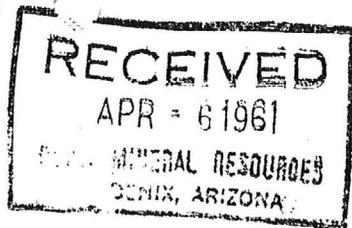
YEAR	ORE TYPE	ORE TREATED (SHORT TONS)	COPPER (POUNDS)	COPPER (DOLLARS)	SILVER (OUNCES)	SILVER (DOLLARS)	GOLD (OUNCES)	GOLD (DOLLARS)	YEARLY VALUE ALL METALS
1923	NG	1.	0.	0.	290.	1891.	5.	103.	291.
1924	NG	2.	0.	0.	120.	80.	2.	41.	121.
1926	NGS	2.	0.	0.	355.	220.	4.	165.	382.
1927	NG	4.	0.	0.	217.	122.	6.	124.	244.
1928	NGS	2.	0.	0.	78.	45.	1.	21.	61.
1929	NGS	1.	0.	0.	135.	47.	2.	51.	90.
1930	NGS	2.	0.	0.	93.	55.	1.	35.	80.
TOTALS		14.	0.	0.	1288.	748.	25.	541.	1289.

LINE NAME - POWERS
 LINE OPERATORS - POWERS GOLD & DEV CONSOLIDATED GAL
 10 S 20 E 6 WEST HALF

YEAR	ORE TYPE	ORE TREATED (SHORT TONS)	COPPER (POUNDS)	COPPER (DOLLARS)	SILVER (OUNCES)	SILVER (DOLLARS)	GOLD (OUNCES)	GOLD (DOLLARS)	YEARLY VALUE ALL METALS
1932	NG	70.	0.	0.	9.	3.	22.	445.	457.
1933	NG	35.	0.	0.	27.	9.	12.	307.	31.
1935	NG	2.	0.	0.	11.	7.	2.	70.	7.
1940	NG	153.	0.	0.	58.	20.	46.	1610.	1630.
TOTALS		260.	0.	0.	105.	39.	82.	2442.	2481.

LINE NAME - UNKNOWN
 LINE OPERATORS - HOWARD KENTON

YEAR	ORE TYPE	ORE TREATED (SHORT TONS)	COPPER (POUNDS)	COPPER (DOLLARS)	SILVER (OUNCES)	SILVER (DOLLARS)	GOLD (OUNCES)	GOLD (DOLLARS)	YEARLY VALUE ALL METALS
1913	NG	1.	0.	0.	1.	0.	2.	51.	51.
TOTALS		1.	0.	0.	1.	0.	2.	51.	51.



Coolidge Ariz
Apr. 5, 1961

Ariz. Dep. of Mineral Resources

Ed Knothe

Dear Sir

In answer to your letter of Mar. 24th

The Ed Knothe mines is not the same property as the "Santa Teresa" I do not know about the name "Santa Anita"

The Ed Knothe mines are in the Galluro district the "Santa Teresa" is in the Aravaipa district

I sold my last mines which include the "Santa Teresa" to Alf. B. Claridge and Dave Bryce of Safford

To get the report on the Ed Knothe mines write to C. C. Bush of Pima, Ariz.

We now live in Coolidge

Truly

Loni Rutledge

P.O. Box 97

Coolidge Ariz.

PARTMENT OF MINERAL RESOURCES
State of Arizona
Mineral Building, Fairgrounds
PHOENIX, ARIZONA



RETURN TO WRITER	
REASON FOR NON-DELIVERY CHECKED	
Unclaimed.....	<input checked="" type="checkbox"/>
Address changed.....	<input type="checkbox"/>
Wrong address.....	<input type="checkbox"/>
No such post office in state named.....	<input type="checkbox"/>

MR. ED. KNOTHE

KLONDYKE

~~ARIZONA~~

DEPARTMENT OF MINERAL RESOURCES
State of Arizona
Mineral Building, Fairgrounds
PHOENIX, ARIZONA

PHOENIX, ARIZONA
APR 3 7 30 PM
1958

RETURN TO WRITER
REASON FOR DELIVERY CHECKED
Misdirected _____ Unknown _____
Wrong letter address _____
No address _____ Refused _____
Post office in state named _____

Mr. Ed Knothe

Klondyke,

Arizona

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

March 24, 1961

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

ED KNOTE MINE	(1944)Graham County -	GOLD-SILVER
(Property)		(ore)

(Could this be same property as your "SANTA TERESA" formerly "Santa Anita" ?)
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

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

October 21, 1958

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

Galileo De...
ED KNOTHE MINE (Graham Co.) gold, silver
(Property) (ore)

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

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

Frank P. Knight

FRANK P. KNIGHT,
Director.

Enc: Mine Owner's Report

<u>LEASE</u>	<i>date?</i>	<u>MINE</u>
FERGUSON, E.K. & Sons and Young, M. D., Safford, Arizona		POWERS MINE & KNOTHE PROPERTY

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

April 2, 1958

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

<u>Long Tom</u>	<u>Gold and Silver</u>
(Property)	(ore)

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

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

Frank P. Knight

FRANK P. KNIGHT,
Director.

Enc: Mine Owner's Report

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
OWNERS MINE REPORT

Date May 8, 1940

- ML-38
1. Mine Long Tom .
 2. Mining District & County Graham Co
 3. Former name
 5. Owner Ed Knothe ✓
 6. Address (Owner) Klondyke, Arizona
 7. Operator
 8. Address (Operator)
 9. President
 10. Gen. Mgr.
 11. Mine Supt.
 12. Mill Supt.
 13. Principal Metals Gold and silver ✓
 14. Men Employed
 15. Production Rate High grade ore at odd times
 16. Mill: Type & Cap.
 17. Power: Amt. & Type
 18. Operations: Present
Opening up head of ore in open cut, trying to produce shipping ore.
 19. Operations Planned Not known
 20. Number Claims, Title, etc. Five claims and mill site
 21. Description: Topography & Geography Elevation about 5775', low point 5250' steep, practically in center of Galinro Mountain Range, which runs northwest - southeast
 22. Mine Workings: Amt. & Condition Two shafts but partly filled in, one shaft in good condition, also short tunnels.

23. Geology & Mineralization Igneous pre-metamorphic. Contact fissure vein. Dudesite hanging wall. Rhyolite foot wall. Ore is breasted - sulphides
24. Ore: Positive & Probable, Ore Dumps, Tailings No ore blocked out, cut same in sight, ore bodies are on hanging and foot walls, partly traceable on surface.
- 24-A Vein Width, Length, Value, etc. Breasted ore between 6-18" and two feet. Running from 25-40 and several hundred dollars.
25. Mine, Mill Equipment & Flow Sheet
26. Road Conditions, Route Fairly good road has been built last winter, still some part will have to be constructed.
27. Water Supply Water for camp use on property (spring). Good site for storage of water on property. In normal years water for milling would be about 6 months in the year.
28. Brief History Located in 1914 by present owner. Shipped between 40-50 tons higher grade ore value between 45-300 dollars per ton.
29. Special Problems, Reports Filed
30. Remarks Property in my estimation could be developed between 5 - 10,000 dollars (Ten thousand)
31. If property for sale: Price, terms and address to negotiate. Price of property would be 60,000 dollars on terms, also lease would be considered.
32. Signed..... Ed Knothe
33. Use additional sheets if necessary.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
MINE OWNER'S REPORT

1. Mine *Long Tom*
2. Location *May 8.
Trail Canyon on and to
of Kellogg Canyon,
Calumet Mountains
Calumet
Floudyke Ariz.*
3. Mining District & County
4. Former name
5. Owner *Ed. Kewthe.*
6. Address (Owner)
7. Operator *"*
8. Address (Operator)
9. President, Owning Co. *—*
- 9A. President, Operating Co. *—*
10. Gen. Mgr. *—*
14. Principal Minerals *Gold & Silver*
11. Mine Supt. *—*
15. Production Rate *high grade ore at
odd times*
12. Mill Supt. *—*
16. Mill: Type & Cap. *—*
13. Men Employed *—*
17. Power: Amt. & Type *—*
18. Operations: Present *opening up lead of ore in open cut trying to produce
shipping ore.*
19. Operations: Planned *not known.*
20. Number Claims, Title, etc. *Five Claims and Mill site*
21. Description: Topography & Geography *elevation about 5475' low point
5350' steep practically in center of Calumet Mountain
Range which runs North West South East.*
22. Mine Workings: Amt. & Condition *Two shafts but partly filled in
one shaft in good condition also short tunnels.*

23. Geology & Mineralization *igneous or metamorphic
Contact pressure vein. Andesite hanging wall.
Rhyolite foot wall. ore is brecciated - Sulphides.*
24. Ore: Positive & Probable, Ore Dumps, Tailings *no ore has been ^{worked} out, but
some in sight. ore bodies are on hanging and foot
wall. partly traceable on surface.*
- 24A. Dimensions and Value of Ore body *Brecciated ore between 6-18" and
two feet. running from 25-40 and several hundred
dollars.*

25. Mine, Mill Equipment & Flow-Sheet

26. Road Conditions, Route *fairly good road has been build.
last winter still some part will have to be
reconstructed.*

27. Water Supply *Water for camp use on property (spring)
good site for storage of water on property
in normal years winter for milling would
be about 6 months in the year*

28. Brief History *located in 1914 by present owner.
shipped between 40-50 tons higher grade ore
value between 45-300 Dollars per ton.*

29. Special Problems, Reports Filed *none.*

30. Remarks *Property in my estimation could be
developed between 5-10,000 dollars
(Ten thousand)*

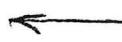
31. If property for sale: Price, terms and address to negotiate.
*Price of property would be 60,000 dollars. on terms
also lease would be considered*

32. Signature *Ed [unclear]*

33. Use additional sheets if necessary.

May 4/44

Galena 2stms.
(GALIARD)



Gold mts
7 7 1/4 miles

Ed. Lyman
Caldwell
Powers
7th mine

Trail - 12 miles

Recall to same Co report.

Knothe
7
avg
Rutledge

10 miles
Rising

*Klondyke
store

↓
N.

LONG TOM MINE

GRAHAM COUNTY
GALUIRO MTNS.

Conference with Carl Roberts, 644 West Main Street, Mesa, Arizona, at the Chamber of Commerce, 1/19/67

Roberts did some work in the early fall at the Long Tom, but mainly repairing the badly washed road following very heavy rains earlier in the year. He is anxious to get help, financially and would option the mine, or try for an OME silver loan. Since Del Peterson (U.S. Marble Corp.) is hunting for silver prospects, it was suggested that he contact Peterson. He said he would.

LAS MEMO 1/19/67

ABM Bull. 137, p. 193

Elms Vol. 73, p. 546

OUR MOTTO: WHAT THERE IS IN IT, NO MORE, NO LESS.

THE COLORADO ASSAYING COMPANY

(INCORPORATED)

ASSAYERS AND CHEMISTS

2013 WELTON STREET

DENVER, 1, COLORADO, March 8, 1944.

REPORT ON DETERMINATIONS MADE FOR — Mr. C. C. Bush,
Pima, Arizona.

DUPLICATE REPORT.

SAMPLE MARKS	METALS	Amount per Ton		PER CENT	Value per Ton	
		Ozs.	Hds.		Dollars	Cents
#1	Gold	.03			1.05	
	Silver	5.20			3.69	
#2	Gold	.02			.70	
	Silver	9.60			6.82	
#3	Gold	.02			.70	
	Silver	1.50			1.07	
#4	Gold	.02			.70	
	Silver	.50			.36	
#5	Gold	.41			14.35	
	Silver	.50			.36	
#6	Gold	.01			.35	
	Silver	1.00			.71	
#7	Gold	.02			.70	
	Silver	6.50			4.62	

*This was handed to me by
Mrs. L. R. Pritchard to you to
see sample.*

#1 .80¢
2 1.10
3 .10¢

*Ed White (checked)
Muir
Kandyke
PO Box 17
Colorado Assaying
(letter 4-5-41)*

Lucas Pritchard Kandyke

GOLD AT \$35.00 PER OUNCE SILVER AT 71¢ PER OUNCE
LEAD AT _____ PER UNIT COPPER AT _____ PER UNIT

THE COLORADO ASSAYING COMPANY

By Edmund Phillips

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine 'LONG TOM (E.D. Knothe property originally) Date November 6, 1965
(Roberts Gold)
District Rattlesnake District (or Gold Mountain) Graham Co. Engineer Lewis A. Smith
Subject: Conference with 'C.R. Roberts, 644 W. Main St., Mesa (present owner)

Claims: 3 unpatented lode claims

Location: SE $\frac{1}{4}$, NW $\frac{1}{4}$, S. 7, T. 10 S., R. 20 E. (1 mile SW Powers & Gold Mountain)

Access: 12 miles from Aravaipa Creek near Klondyke west to Rattlesnake Creek Canyon, hence 8 miles SW-S on Rattlesnake Canyon, thence 4 miles S on a tributary of Rattlesnake. Most of this was recently repaired to within a mile of the mine by C.R. Roberts.

Owner: C. R. Roberts.

Shipments: A few high grade shipments made prior to 1935 in early 1930's by E.D. Knothe.

Minerals: Gold and silver.

Geology: The prevailing rock is rhyolite intruded by andesite porphyry. Ore occurs in a silicified, brecciated zone, up to 3 feet wide, that strikes about N 30 degrees W and dips 70-75 degrees NE. The richest portion lies in the foot, or less, next to the hanging wall that is smooth. Mineralization of good grade is up to 18 inches wide and mill grade is up to 3 feet wide at the 40 foot shaft. The gangue consists of brecciated rhyolite fragments that are cemented by two generations of quartz. The high grade is definitely affiliated with disseminated pyrite in the breccia fragments and earlier, blueish, colored dense quartz. As far as could be seen the later white quartz cuts the earlier quartz and breccia inclusions.

Development consists of several shallow open cuts, a 40 foot shaft, with a drift 70 feet north and a stub 20 feet long to the south from the bottom of the shaft.

H.C. Davis sampled this shaft area and came up with several 12-18 inch samples on the shear hangingwall:

		Inches				
		Width	oz. Au	oz. Ag		Value
1.	Knothe mine					
	(a) " "	12	13.35	207.00 (77¢/oz)		\$63.55
	(b) " "	18	6.38	145.50	"	354.25
* 2.	(a) " "	12	0.71	38.10	"	53.18
	(b) " "	16	8.47	221.20	"	504.78

* (This sample did not include the high grade H.W. streak.)

C.R. Roberts

1.	shaft	12	12.48	433.12 (90¢/oz)		996.82
2.	S drift	18	6.30	498.54	"	862.11
3.	150' N shaft	24	0.18	22.26	"	25.00
4.	24' N shaft	18	1.20	82.92		149.92

Harold Brogan took these in 1957 (326 W. Mitchell, Phoenix)

11.	Knothe dump		2.51	57.50 (90¢/oz)		139.88
12.	" "		0.60	67.80	"	82.40
8.			4.42	170.40	"	308.06

Long Tom (continued)

samples - Harold Brogan (continued)

	<u>oz. Au</u>	<u>oz. Ag</u>	<u>Value</u>
9.	5.60	154.80(90¢/oz)	355.12
10.	10.46	227.40 "	570.70
11.	9.44	176.60 "	489.30

Summary: The high grade 12-inch H.W. streak appears to average between \$300 and \$1000, but away from this the grade drops very rapidly. At 18 inches or 2 feet it is about 5-10 times less. (Many samples showed very little.)

References: Ariz. Bur. Mines Bull. 137 (1934) p. 193-194
Blake, W.P., Engineering & Mining Jour. Vol. I, No. 73 (1903) p.546-547
Davis, H.C. Report (H.C. Davis, 1000 N. Mountain St., Tucson. (Davis did not date his report.)

AF DNA DEPARTMENT OF MINERAL RESOURCES
Mineral Building, Fairgrounds
Phoenix, Arizona

Mickey Williams (owner)

1. Information from: _____
Address: Fort Grant- Arizona _____
2. Mine: KNOTHE (Long Tom) 3. No. of Claims - Patented _____
Claims Long Tom one and two. Unpatented 2
~~Section ##~~ Galuiro Mts. 1 mile# east of Kielberg Peak next to Powers mine.
4. Location: _____
5. Sec 7 Tp 10 S Range 20E 6. Mining District _____
Mickey Williams
7. Owner: _____
8. Address: Fort Grant Arizona _____
none
9. Operating Co.: _____
10. Address: _____
11. President: _____ 12. Gen. Mgr.: _____
13. Principal Metals: _____ 14. No. Employed: _____
15. Mill, Type & Capacity: _____
16. Present Operations: (a) Down (b) Assessment work (c) Exploration
(d) Production (e) Rate _____ tpd.
Probably 100 of underground work, shaft and drifts.
17. ~~New Work Planned:~~ _____
Ore on dumps reported to run \$39 in gold and silver with silver at 93¢
Accessible by short wheel base four wheel drive jeep, with good winch.
18. Misc. Notes: _____

Date: 9-18-69

G. W. Swann
(Signature)

(Field Engineer)