ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: FOUNTAIN HEAD part 2

ALTERNATE NAMES:

BEVIS GROUP

MOHAVE COUNTY MILS NUMBER: 85E

LOCATION: TOWNSHIP 22 N RANGE 17 W SECTION 4 QUARTER SE LATITUDE: N 35DEG 19MIN 20SEC LONGITUDE: W 114DEG 06MIN 37SEC TOPO MAP NAME: STOCKTON HILL - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

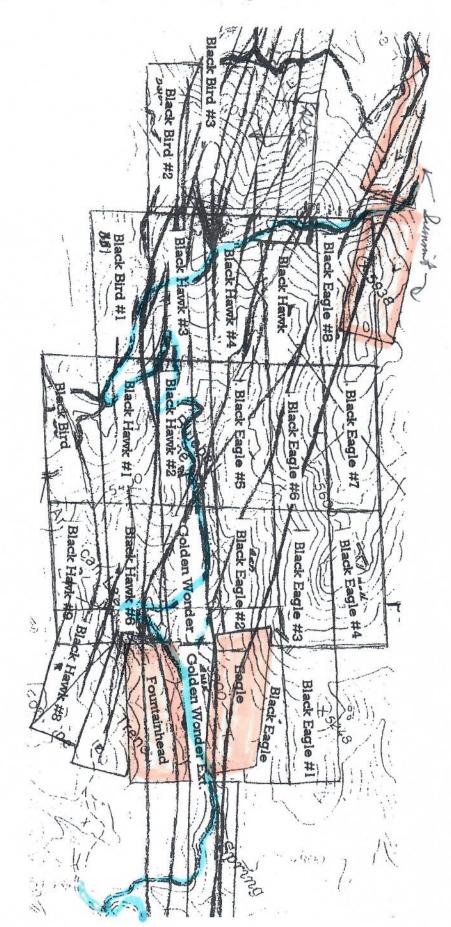
COMMODITY:

COPPER LEAD ZINC SILVER GOLD LODE

BIBLIOGRAPHY:

ADMMR FOUNTAIN HEAD FILE
ADMMR MOHAVE CARD FILE
ADMMR MOHAVE CARD FILE
ADMMR MOHAVE CARD FILE
ADMMR MOHAVE CARD FILE
ADMMR FOUNTAIN HEAD FILE
ADMMR FOUNTAIN HEAD FILE
ADMMR FOUNTAIN HEAD FILE
ADMMR MOHAVE CARD FILE

Property Map of Western Az. Milling and Mining



DEPARTMENT OF MINERAL RESOURCES FIELD ENGINEERS REPORT STATE OF ARIZONA

Mine Banner Mine STA-GT. Hill trusses (fun Date

Sept. 12, 1962

District

Engineer Lewis A. Smith

Cerbat Dist., Mohave Co.

Subject:

Interviews and Visit to Golden Gem Mine and Mill. (9-6-62) With "Red" Williams.

Location: The Banner Mine lies 2 miles east of the Golden Gem Mine (The Golden Gem is in S-7 T. 22 N., R. 17 W.) (The Banner would then be approximately in S-9.)

Owner: Cerbat M. & M. Co., of Kingman.

per ton and 2-3 percent of lead. Co. is now sampling the several Banner Dumps and treating the samples in 600 feet from the portals of the 1600-foot adit drift. The Gerbat M. & M. Work: The mine is opened by a 1600 foot adit drift which reaches a depth of 250 feet below the surface. A total of 2500 feet of underground working had been completed by 1910. Later a winze, 60 feet deep, was sunk at a point the Golden Gem Mill. These sample lots are reported to run 6 oz. in silver

as follows: The Banner Mine geology was described in U.S.G.S. Bull. 397, pp. 109-110,

runs up to several ounces and silver is present as sulphides or native contains galena with some sphalerite, pyrite and chalcopyrite. silver. Zinc content increases with depth. gangue follows the hanging wall side. averages 7-8 feet wide, but the ore width ranges from 1-3 feet. The ore footwall side. The rock is stained red from limonite derived from pyrite. The country rock is iron-gray to light gray, fine-grained gneiss, in which the gneissic foliations trend N. 30° E. and dip N-NW toward the vein on the band favors the footwall, generally. A foot or more of highly altered The gangue is mainly reddish-brown, stained quartz, at the surface, and it The main fissure vein strikes N. 40 degrees W. and dips 80 degrees NE. The ore is roughly banded and Gold sometimes

1(2) m & m) 1.-11:2 -

TYRO (f)
GOLDEN GEM (P) Mire & Milling Accounting Services, Inc.
FOUNTAIN HEADA)
P.O. BOX 2633

nsel

November 22, 1989

Mr. Nyal J. Niemuth 4227 North 11th St. Phoenix, AZ 85014

Re: Purchase of Gold at \$250 per Troy Ounce-999 Fine.

Dear Mr. Niemuth:

This office is the accounting and gold delivery agent for the General Partners of **INDEPENDENT METALS**, a Limited Partnership that is offering 4,000 troy ounces of its gold at \$250 per ounce and a 1/100th participating interest in an ore block of the Fountain Head Mine.

Laughlin, Nevada 89029 (702) 382-7556

You expressed your interest in purchasing gold by your answer to an ad placed in the Wall Street Journal some months ago by our principals. We trust you are still interested in gold as part of your investment portfolio, and you agree with the expert financial planners who recommend that 5% to 15% of your assets should be in gold.

At this writing, our principals have poured their first dore bar of precious metals (gold, silver and platinum) from their operation of their Cerbat Mill, and they are mining gold at the Tyro Gold Mine. It is their plan to commence milling and refining gold at their Tyro Gold Mill facility in early January, 1990.

Approximately one-half of the above ounces of gold has been subscribed. Subscriptions will be accepted by this office on a first come, first serve basis for the Partnership.

We would be pleased to send you a Summary of the Offering for your further information and consideration. A representative will call you in a few days inquiring of your interest. If you are not available by telephone, and you are interested, please call us at the above telephone number, and we will mail you a copy of the aforesaid Summary of the Offering.

Our principals project a \$66,000 return on a \$10,000 investment over a three (3) year term without considering the tax benefits that may enure to you.

The mines and mills are open for inspection, and both are located within 100 miles from Las Vegas, NV. Your are invited to make a personal inspection of their mine and mill facilities.

Sincerely,

MINE & MILLING ACCOUNTING SERVICES, INC.

David Johes

d Johes Controller

DJ/r

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

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Ore minerals are principally cerargerite (silver), native gold, galena (lead) sphalerite (zinc), and chalcopyrite (copper). Some 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 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 accessable. 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:

E.J.	the Wallapal Mining Dis	trict:	2 211					
	Mine	Tons	% Cu	% Pb	% Zn	oz/T Au	OZ/T Ag	
团	Banner	3841 5000	.5	22.6	11.9	.21	7.4	
N	Summit	25,000 25,000	.58	4.3	6.3	.066 -	4.5	
Ø	Golconda	40,000	. 5	.5 .5	14.0 14.0	.20	4.0	
H	Fountain Head	1,250 3,750	.61 .61		16.4 16.4	. 2	3.5 3.5	
	Detroit	1600	2.31	1.0	5.5 5.5	.01	7.2 7.2	
	Wrigley	56,000	.1	9.0	.1	.1	. 2	
M	Tennessee	29,503 50,000	.1	4.1 4.1	8.2	.01	.2	
					90			

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Tennessee	100,000	.1	4.1	8.2	.01	. 2
New Moon	11,000 9,900 10,000	.1 .1	5.0 5.0 5.0	8.0 8.0 8.0	.05	7.5 7.5 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 7,000	.1	3.6 3.6	7.3 7.3	.06	2.0
Champion	570 6,000 6,000	.1 .1 .1	8.0 8.0 8.0	15.6 15.6 15.6	.26 .26 .26	10.0 10.0 10.0

While the above represent substantial exploration and are very conservative, espcially 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 Colconda 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 Jimmi	150,000	
Peach Triang	e 350,000	
Golconda	300,000	
Prosperity	80,000	
Primrose	80,000	
Blackfoot	90,000	
	1.800 000	

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

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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	
	93,500	

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 seperation 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



Reed & Reed Kingman, Arizona. P.O.Box 1246,

August 2, 1952.

Mr. F. T. Johnson, P.O.Box 143, Oracle, Arizona.

Dear Mr. Johnson:-

Re the Banner and Fountain Head Mining Property being operated by my brother and I, this will give you some idea of the conditions and if further interested, you will no doubt want to see the mine, etc.

My brother is away most of the time outside the country and I have power of attorney to operate the mine and handle all our business. We have been sinck March of 1951 re-opening the old workings and doing a little development work. We have shipped eight carloads of ore from various locations in the mine and are shipping another now. These give us a fair idea along with our sampling and what we can see of what to expect from the mine.

Our plan has been to eventually get a small concentrator going because shipping the ore direct gives too much money away to the railroad, etc., but we have limited finances and can only go about so fast. For this reason it is discouraging at times, and we would be willing to sell if we got the right price.

We have a ten year lease with a fifteen year extension on the main part of the property (Fountain Head) and a two year lease on the rest. This two year lease is from U.S. Smelting and they will be easy to get a renewal from as needed. We control all the openings to their ground that are any good to us.

The royalties slide from 5% upward, but generally $7\frac{1}{2}$ to 10% cover the shipments. If milling yourself, most of it would be 5 or $7\frac{1}{2}$ %. It may be that if you were really interested that I could deliver the Fountain Head outright so that you could own it for the right price and you might like this better.

The property was worked quite a little down to the 200 foot level (our bottom level) in 1926 for gold-silver and base metals and then was re-opened about 1938-39. This last time they shipped mostly surface ore carrying high gold to the smelters. About 40 carloads carrying around 0.70 oz. gold and a little silver and lead were shipped along with 12 tons from a surface hole that brought about \$30,000.00. The 1926 work produced quite a few thousand tons from the Fountain Head Vein from three ore-shoots whose total length is about 600 feet out of an overall of length of drift of about 1000 feet. This ore averaged 30 inches wide or more and according to H.C. Wilmot, Dec. 30, 1926, report,6200 tons were stoped that year and he gives average tonnage for the three ore-shoots of about 15,000 tons per 100 feet of depth with grade at about 0.255 oz. gold, 4.3 oz. silver, 1.5% lead, 0.7% copper, and 14.0% zinc.

page 2

So far our work has stood up reasonably well as compared to what Wilmot said. We are sinking a winze in the center ore-shoot on the fountain Head Vein. We have a gov't 50-50 matching loan on this for a total of \$ 20,000. to be used to sink 100 feet plus sump and do a little over 200 feet of drifting.

In connection with this loan, the gov't took nine samples over a length of 200 feet and average 30 inch width. The weighted average for these was 0.20 gold, 3.5 oz. silver, 0.65% lead, 0.61% copper, and 16.4% zinc.

We shipped two cars (our lots 3 & 4) from just above the 200 level floor in the area where the above samples were cut. These cars made 1.27% lead, and 14.95% zinc.

We are down about 17 feet below the 200, sinking on this ore-shoot now and haven't returns on many samples yet. At the start at floor level, we had a sample that went 0.36 oz. gold, 3.4 oz. silver, 0.70% copper and 10.6% zinc. Didn't run for lead. There was a little dilution in this. broken out eight feet, we started grabbing from the cars on muck that was broken out about five feet wide. The first sample went 0.24 oz. gold, the ore looks better in the bottom and 8.1% zinc. No lead assay. At present, from muck and from cuts in the vein. There was a lean looking place at the start, but evidently the gold and silver stayed with us.

This shoot 200 feet by 30 inches should make 5000 tons approximately per 100 feet of depth. It appears to be lengthening with depth in some ways.

About 200 feet North-West is the North or "C" shoot. This needs a little work from the 200 level to get up to a block which extends from about 70 feet above the 200 level upwards for 100 feet to a level where we mined part of lots 6, 7, and 8. The balance of these shipments was from marginal ore at the South-West end of this shoot on the 200 where we were probing around trying to get to the bottom of this block. So these lots of ore should be lower than average for this shoot, but give some idea at least. They add up to 163.43 dry tons. Average grade is 2inc. This shoot is about 100 feet long and about 30 inches wide. I think the gold will average out quite a little higher than the above when you get in the center of the shoot.

South East from our center or "B" shoot where we are sinking, is the "A" shoot which is reached through the Fountain Head Adit Cross-Cut on the 100 level. This appears to be about 300 feet long, but we haven't opened it up on the 200 level. On the 100 at the South east end of the shoot, above the adit, we mined a carload that had 50.127 dry tons that ran 0.0775 oz. gold, 3.0 oz. silver, 0.30% copper, 8.01% lead, and 7.41% zinc. This was narrow ore left above by the old Timers. Below this on the 165 level, they mined wider ore and I crawled in and saw some chutes, but only sample I could cut was at the station cross-cut where I got 33 inches that ran 0.07 oz. gold, 6.80 oz. silver, 3.2% lead. and 13.50% zinc. No copper assay. Drifting from the 200 level appears about into this shoot.

Dage 3.

Evidently, Wilmot saw all these shoots when they were actively being mined and milled. He thought the gold was increasing with depth as was copper and zinc. Thought maybe silver and lead decreasing. Of course this wasn't considering the oxidised gold enrichment at surface.

On the Banner Vein which is cross-cut by this same 100 level adit cross-cut, there is a shoot of ore about 90 feet long that runs more to lead. It carries the other metals, too, of course. In places this has milling ore about five feet wide, but average on the 100 might be three or four depending on economics. It has been mined above the 100, but can be drifted under from our 200 level. Recently I've had two sub-leasers here who sank fifteen feet and took out a little ore which we are now shipping. The think this may run about ten percent each lead and zinc and say roughly0.08 oz. gold and 3. Or 4. oz. silver. They have three months to go on their lease, but I can deal with them if you wanted to take over. This area is caved on the 100 except right at the cross-cut, so can't see much. Above in the stope (filled stope), you can see some ore, averaging about two feet that my three samples ran about 0.05 oz. gold, 9.0 Oz. silver, 5.0% lead, and 10.7% zinc. Possibly this shoot is getting wider going down. There are other possible places to get ore along our 200 level drift on the Banner Vein, but none of them are good for shipping. We shipped car number two from there, sampling two spots. It was 46.75 dry tons and ran 0.13 0z. gold, 2.45 oz. silver, 0.25% copper, 2.15% lead, and 12.25% zinc. This 200 level on the Banner is about 350 feet long and has a couple of hundred feet to go to be right to raise up under the cross-cut. Except for the 90 foot stope above the 100 cross-cut, it is all pretty much unmined. Some payable spots for a mill can probably be found in this area.

I've always figured that the 15,000 tons per 100 feet of depth plus the Banner Vein ore would work out when the mine was fully opened. At say 20,000 tons total and say 25 tons per day, this would give say 800 days to develop and work out 100 feet of depth, or between two and three years. With a mill that would treat 25 toms in a shift, costs w would be reasonable, say \$5.00 per ton. (milling).

Two miles of power line would put power at the mine and with the 8 gallons a minute we pump, you could mill that tonnage. Other water is available close by to increase if needed. Or you could haul 14 miles to Kingman and mill there on the railroad and get outside ore, too. We pay \$2.15 plus tax to hauk, but \$1.50 should do it, if steady hauling. Properly milled, our ore should net at the railroad around \$25.00 per ton of crude ore. By milling, you'd get pay on copper and lead which we sometimes miss in crude ore.

Although our ore is narrow, the walls are good and mining should not be too high when you get say 25 tons or more per shift. A lot of the old stoping was half open stope, half shrinkage. Stopes are still mostly open except where they got careless around faulted areas. Vein dips 60 degrees to vertical in diffferent places, so always steep enough for gravity ore handling. Mine elev. about 4800 feet. It appears that our ore mills very nicely from the pay we get. I'll have results soon on some gravity tests. I'll enclose a rough sketch-map of the mine. Let me know if you want more imformation, maps, etc., or better come up and see it. I think you'll like it.

Sincerely F. Reed

ARIZONA PUTTE MILLES CO.

District:

Stockton Hill

Location:

Stockton Hill; about 18 miles by recon ross northwest

of Kingman, Arizona. Elevation of 480 feat.

Ouners:

Arizona Butte Mines Co., incorporated under laws of Arizona, Carital atock 2,000,000 shares, one dollar par. Of this 1,375,000 shares are issued and outstending, balance in tremsury. Officers: H. M. Growther, President and General Manager, Kingpan,

Ar1 20

Date visited:

September 1 and 2, 1919.

MOTES:

35 Claims located along what is known as the Prince George vein, striking N. 40° W. and dipping to the N. E. 80°.

GEOLOGY

Veins are fiscures of movement, occurring in a Pre-Combrian complex consisting of Gneiss, Gneissoid Granite and Schist out by numerous acid and basic dikes of per-mineral see. The main vein at one point may be in a fine grained Gneiss, and at other points in the Gneiss but with parallel bands of pegmetite on either well. The wells are badly sheared and coushed, necessitäting heavy timbering or Cilling. The usual method is to mine out the ore and fill with berren vein filling or wall rock.

HISTORY

In the carly eighties the various claims shown on the attrohrd maps as the Banner, Prince George and De La Fontsine are credited with a production of a million ounces of silver, taken largely from the rich surface ores.

During 1917 the properties were consolidated under present monorement, \$100,000.00 raised from sale of stock, the greater portion of which was expended in the construction of a mill and in opening come of the old workings - entirely by hand methods of mining. A last system was adopted and approximately 90 cars of one and concentrates were shipped during 1918.

The following is an overage of the above shipments, though there was no means at hand of identifying concentrate from crude ore sigments:

Tons		Au	Ac:	Pb
2024		.35 oz.	15.1 oz.	27.5 %

At the present time the Commany has two sets of largers working in the upper levels and contemplates the reconstruction of the will, which has been idle for nearly a year. They are also preparing to drive a tunnel, already in 600 feet, a distance of 11,000 feet to tap their main workings at a maximum depth of one thousand feet. The tunnel will be on the vein. They are also equipping with air in order to increase number of leasers, and under the splitcheck system will supply everything, charging for air, steel, sharpening, hauling and milling.

DEVELOPMENT

Development consists of several thousand feet of tunnels as well as some drifting from the intersection sheft as shown on the accompanying blue print. The infillable tunnel is oven for the greater portion of its length, and it is from this tunnel and the winze shown that the present production is being made.

Blue print of elevation shows various blocks of ground and tonnage and grade of ore contained. There is no reason to doubt this estimate, and in fact deep development should produce much larger tonnage. Widths of one vary from a few inches up to 3 feet. The owners have no exact knowledge of these prebodies except from previous slipments around their borders, and there are no assay maps at hand.

Concentrator; using jigs and tables, has a capacity of 100 tons per day, although it will be several months before this tonnego is attained. It is their intention to use this mill as custom mill for leasers on split-check system; also, to buy some outside one and a sampler will be installed for this purpose.

A 75 H. P. Fairbanks Morse type engine has been installed at mouth of deep tunnel; also, a 10 x 12 single stage Ingersoll-Rand Compressor, belt driven from the gra engine. This equipment appears incdequate for a long tunnel. The power line of the Desert Light and Power Company crosses the portal of the tunnel, but for some reason the operators think they can oversta more cheeply on their our some.

A similar plant is being instelled at the upper rockings of the mine with a view of supplying air for the lessers. Jordinamers

MILLING RESULTS - 349 TON LOT

	Weight Pounds	Tons	Oz. Gold	Oz.	Su.	% Lead	Zinc	, Sil.	% Iron	;; Lime	Sulph.
Orude Ore	1,698,195	849	.324	4.9	7 . 29	15.67	10.4	55.5	5.2	1.	9.7
Lead Juncentrates	31,1440	-155	.277	10.51	.20	83.07	6.2	! · 8.1	3.05	0.9	15.1
Lead Concentrates	108,026	54	2.58	17.91	.49	51.1	12.2	3.3	8.5	0.9	20.4
Zinc Concentrates	260,000	130	.356	6.53	.95	4.22	42.3	15.	6.9		
Tailings			.055	1.35	.13	.42	3.6	90.9	1.15		
Percent Recovery				81.8			80.8	:	41.5		*

4.04 Tons Crude Ore - - - 1 Ton Lead Concentrates 6.53 " " " Zinc "

AVERAGE ASSAYS FROM SAMPLES MAPS

1,16	1	2					350
	Feet	Oz. Gold	Oz. Silver	% Lead	Zine	Total	Value
nner Shaft, 36 Assays	1.59	.235	5.4	20.8	14.6	\$36.02	per ton
amer Shart, 165 Ft. Lovel, 37 Assays	1.5	.21	9.0	27.2	13.0	43.25	и и
Ther Shaft, 330 Ft. Livel, M., 21 Assays	1.3	. 35	4.3	15.0	13.2	54.00	13 16
ner Shaft, 330 Ft. Level, S., 35 Assays	1.29	.21	5.4	15.0	13.1	31.79	11 11
Amer Shaft, 430 Ft. L.v.l, N., 3 Assays	.8	.31	3.0	7.9	7.6	21.31	ti ii
aner Shaft, 430 Ft.	1.7	.30	5.0	11.1	12.7	30.71	11 11

(Gold, 319., Silver 50¢ Oz.)
Based on (Lead 4¢ Zinc 5¢ Lb.)
Net from Smelters

Deseming double steping width: appear gode = 21 to 3 - 13 Jusos, 89 - 69

will be used both at the tunnel and by leasurs, and are entirely adequate for the character of ground encountered along the vain; and in fact, in stoping operations due to heavy ground and soft ore, I doubt the risdom of using machines, since handwork is quite efficient and would save a great admixture of waste.

CONCLUSION

Estimate of 25,0% tons of grade of or as follows: Au \$4.00, Ag 5 oz., Pb 15%, and Zn 10% is probably reasonable.

In the event that the Company continues operations as planned and reconstructs the mill, the property can produce approximately four to five cars monthly of crude ore and concentrates of approximately the following composition: Au .8 oz., Ag 12.3 oz., Pb 50%, Zn 7%.

The veins are narrow, or at least the ord is narrow, very-ing as mired by leasers from six inches to two feet - costs will be high.

Mining Cost Milling "	\$7.00 2.50	Per	ton
Haul ratio Stol	1.00	Ħ	H
Freight 5 to 1	.90	II	11
Total	11.40		

Crude ore, where mined, will cost \$15.00 to Humboldt, due to haul.

Total cost, including treatment on mill concentrates will be for

Milling ore \$12.60 Per con Shipping " . 25.40 " "

Margin of profit for leasers and Company will be small, although Company will get some benefit from shipments of zine, which they do not propose to pay for at the mill.

As a producer of lead the Commony should be able within five months to produce five cars monthly of 15 to 50 per cent lead one, either as concentrates or coarse one, but can hardly be demended on for any great amount of coarse one, and their maximum shipments of such one will probably not exceed two cars per month verying from 20 to 40% lead.

W. V. DeCamp

Aingman Ariz, June 8th 1010

Mesara. Consolidated Arizona Smelting Co, Humboldt, Arizona

Gentlemen:

The Arizona Butte Group requires a special automobile to reach it, for which reason I did not visit the property, but have made a number of enquiries. I find from Lr. EcGinloy, an engineer who has been in the district some 4 years, that possibly two errs a wack are now being shipped from the property by leasees. Lr. Crowthers the manager is now in the East, to finance the driving of a 2000 ft. tunnel to strike the ore bodies at depth. The property has been a shipper of some note in the past, and the belief is that it will again be a shipper.

I might remark that throughout the Chloride district as a whole, an impoverished zone seems to obtain near or immediately below the exidized zone. This zone of impoverishment may persist for a hundred feet or thereabouts, when the unaltered sulphides are again encountered, often of a grade high enough to ship, at other places being but a milling ore. The conditions seem to prevent the shipping of an ore below \$25.00 p.r.ton, the smelter and freight rates being such as but a small margin is left even with such grade.

Referring again to the Arizona Butte, a mill of 50 to 75 time capacity is now erected on the ground, but little if any concentrate has been produced. I understand the mill was built without an immediate supply of one being available.

Respectfully subsitted,
A. Burnett:

AGLE-PICKER M. & S. Cc.

DISTRICT:

Stockton Hill, Mojavo County.

-

PROPERTY:

Arizona Butte

LOCATION:

Some 15 miles northerly from Kingman

See Claim Mup. D. 2-37_ D- 2-38

OPERATORS:

Now being operated by a number of lessees.

Several properties have been consolidated and a tunnel to open up deeper ones is being planned for. Mr. H. Crowther, Genl. Mgr. now in New York in connection with financing of this tunnel.

Did not visit the property, but it is reputed as being most promising, and there is a liklihood of it' becoming a lead silver producer of some prominence.

A. Burnett. June 14, 1919

The Monte of State of the State of Co.

District: Stockton Hill

Stockton Hill; about 18 miles by waron ross northwest of Kingman, Arizons. Elevation of 480% feet. Location:

Cumers:

Arizona Butte Himes Co., incorporated under laws of Arizona, Carital stock 2,000,000 shares, one dollar per. Of this 1,375,000 shares are issued and outstanding, belance in tremsury. Officers: H. H. Crowther, President and General Hansger, Kingman, Arizona.

Arizona.

Date visited: September 1 and 2, 1919.

MATES:

.

55 Claims located along what is known as the Prince George vein, striking N. 40° W. and dinying to the N. E. 80°.

GEOLOGY

Veins are fissures of movement, occurring in a Pre-Grabrian complex consisting of Gneiss, Gneissoid Granite and Schist out Ly numerous acid and basic dikes of per-mineral tye. The main vein at one point may be in a fine grained Gneiss, and at other points in the Gauss but with parallel bands of pegmetite on either wall. The wells are badly sheared and coushed, necessitating heavy timboring or filling. The usual method is to mine out the ore and fill with berren vein filling or walt rock.

HISTORY

In the early eighties the various claims shown on the attachid meps as the Banner, Prince George and De La Fontsine are credited with a production of a million ounces of silver, taken largely from the rich surface ores.

During 1917 the properties were consolidated under procent ment ement, \$100,000.00 raised from sale of stock, the greater portion of which was expended in the construction of a will and in opening come of the old workin's - entirely by hand methods of mining. A lesing system was adopted and approximately 90 cars of ore and concentratus were shivned during 1918.

The following is an average of the above shinments, though Thro was no means at hand of identifying concentrate from crude ore comments:

> Tons Au Ac; Pb .35 oz. 2024 15.1 oz. 27.5 %

At the present time the Commany has two sets of lorders working in the under levels and contemplates the reconstruction of the will, which has been idle for nearly a year. They are also areporting to drive a tunnel, already in 600 feet, a distance of 11,000 feet to tap their main workings at a maximum depth of one thousand feet. The tunnel will be on the vein. They are also equipping with air in order to increase number of leasers, and under the splitchcok system will supply everything, charging for air, steel, sharpening, hauling and milling.

DEVELOPHENT

Development consists of several thousand feet of tunnels as well as some drifting from the intersection sheft as shown on the accompanying blue print. The infillable tunnel is oven for the greater portion of its length, and it is from this tunnel and the winze shown that the present production is being made.

Blue print of elevation shows various blocks of ground and tonnage and grade of ore contained. There is no reason to doubt this estimate, and in fact deep development should produce much larger tonnage. Widths of one vary from a few inches up to 3 feet. The owners have no exact knowledge of these orebodies except from previous slipments around their borders, and there are no assay maps at hand.

Concentrator; using jigs and tables, has a capacity of 100 tons per day, although it will be several months before this tonnego is attained. It is their intention to use this mill as custom mill for leasers on split-check system; also, to buy some outside ore and a sampler will be installed for this purpose.

A 75 H. P. Fairbanks Morse type engine has been installed at mouth of deep tunnel; also, a 10 x 12 single stage Ingersoll-Rand Compressor, belt driven from the Lys engine. This equipment appears inedequate for a long tunnel. The power line of the Desert Light and Power Company prosses the portal of the tunnel, but for some reason the operators think they can overste more cherely on their own water.

A similar plant is being installed at the upper workings of the mine with a view of supplying air for the la sers. Jackhamars will be used both at the tunnel and by leasurs, and are entirely adequate for the character of ground encountered along the vain; and in fact, in stoping operations due to heavy ground and soft one, I doubt the risdom of using machines, since handwork is quite efficient and would save a great admixture of waste.

CONCLUSION

Estimate of 25,0 % tons of grade of or as follows: Au 34.00, Ag 5 oz., Pb 15%, and Zn 10% is probably reasonable.

In the event that the Company continues operations as planned and reconstructs the mill, the property can produce approximately four to five cers monthly of crude ore and concentrates of approximately the following convosition: Au .8 oz., Ag 12.3 oz., Pb 50%, Zn 7%.

The veins are narrow, or at least the one is narrow, verying as mined by leasers from six inches to two feet - costs will be high.

Mining Cost Milling "	\$7.00 2.50		ton
Haul ratio Stol	1.00		H
Freight 5 to 1	.90	11	н
ri 🕳 a risker trans			

Total

11.40

Grude ore, where mined, will cost \$15.00 to Humboldt, due to haul.

Total cost, including breatment on mill concentrates will be for

Milling ore \$12.60 Per ton 25.40 W W

Margin of profit for Leasers and Company will be smell, although Company will get some benefit from shipmants of zinc, which they do not propose to pay for at the mill.

As a producer of lead the Company should be rich within five months to produce five cars monthly of 15 to 50 per cent lead one, either as concentrates or coarse one, but can hardly be depended on for any great amount of coarse one, and their maximum shipments of such one will probably not exceed two cars per month verying from 20 to 40% lead.

W. V. DeCamp

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Kingman Ariz, June 8th 1919

Meserc. Consolidated Arizona Smelting Co, Humboldt, Arizona

Gantlemen:

The Arizona Butte Group requires a special automobile to reach it, for which reason I did not visit the property, but have made a number of enquiries. I find from Mr. McGinley, an engineer who has been in the district some 4 years, that possibly two ers a week are now being shipped from the property by leasees. Mr. Growthers the manager is now in the East, to finance the driving of a 2000 ft. tunnel to strike the one bodies at depth. The property has been a shipper of some note in the past, and the belief is that it will again be a shipper.

I might remark that throughout the Chloride district as a whole, an impoverished zone seems to obtain near or immediately below the exidized zone. This zone of impoverishment may persist for a hundred feet or thereabouts, when the unaltered sulphides are again encountered, often of a grade high enough to ship, at other places being but a milling ore. The conditions seem to prevent the shipping of an ore below \$25.00 per ton, the smelter and freight rates being such as but a small margin is left even with such grade.

Referring again to the Arizona Butte, a mill of 80 to 75 times capacity is now erected on the ground, but little if any concentrate has been produced. I understand the mill was built without an immediate supply of one being available.

Respectfully submitted,
A. Burnett:

MILLING RESULTS - 849 TOT LOT

	Weight Pounds	Tons	Oz. Gold	Oz. į Ag.	g Cu.	Lead	Zine	g Sil.) Iron	;; Lime	Sulph.
Oruđe Ore	1,698,195	849	.324	4.9	. 29	15.67	10.4	55.5	5.2	1.	9.7
Lend Concentrates	311,440	-155	.277	10.51	.20	63.07	6.2	8.1	3.05	0.9	15.1
Lead Concentrates	108,026	54	2.58	17.91	. 49	51.1	12.2	3.3	8.5	0.9	20.4
Zine Concentrates	260,000	130	.356	6.53	.95	4.22	42.3	15.	6.9		1
Tailings			1	1.35				1	1.15		:
Recovery			83.	81.8		98.0	80.8		41.5		

4.04 Tons Crude Ore - - - - 1 Ton Lead Concentrates 6.55 " " " - - - 1 " Zino "

AVERAGE ASSAYS FROM SAMPLES MAPS

							3.5		
	Feet	Oz. Gold		% Lead	% Zinc	Total	Valu	e	19
nnor Shaft, 36 Assays	1.59	.235	5.4	20.8	14.6	\$36.02	per	ton	
nner Sha t, 165 Ft. Lavel, 37 Accays	1.5	.21	9.0	27.2	13.0	43.25		u	
ther Sheft, 330 Ft. Lovel, N., 21 Assays	1.3 ·	.35	4.3	15.0	13.2	34.00	и	и	
iner Shaft, 330 Ft. Lavel, S., 35 Assays	1.29	.21	5.4	15.0	13.1	31,79	н	н	
Amer Shaft, 430 Ft.	.8	.31	3.0	7.9	7.6	21.31	u	н	
oner Shaft, 430 Ft.	1.7	.30	5.0	11.1	12.7	30.71	и	н	

(Gold, \$19., Silver 50¢ Oz.)
Based on (Lead 4¢ Zinc 5¢ Lb.)
Net from Smelters

Personing losses steping width: approx gode - 21 to 3 - 13, 5,500, 89. - 6%

May 27, 1957

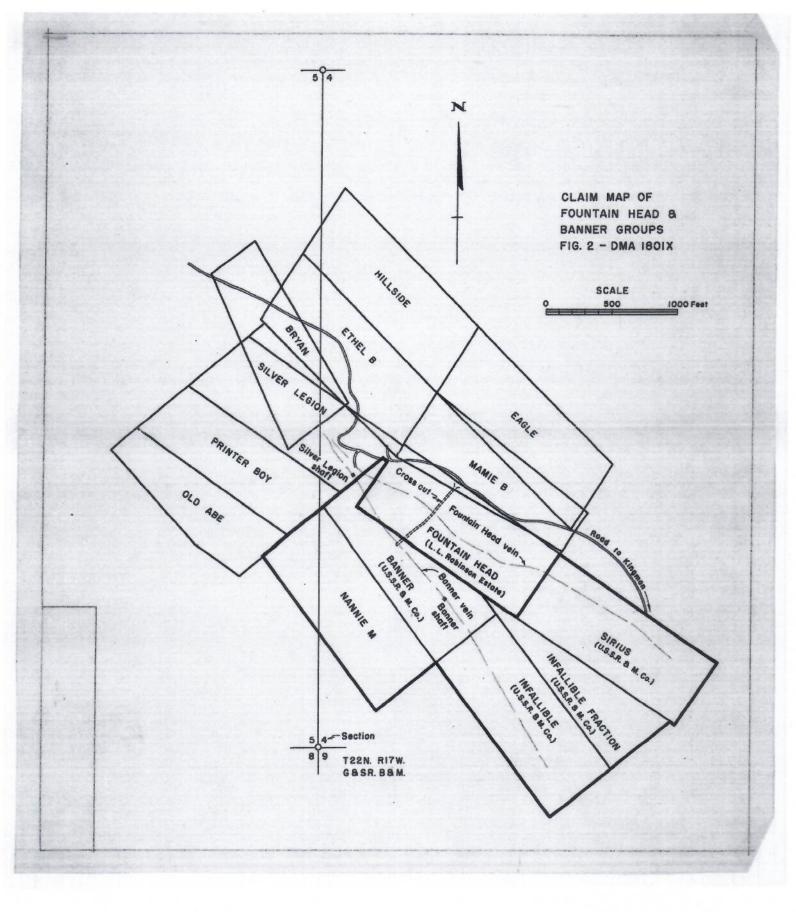
BANNER-FOUNTAINHEAD PROFERITES MOHAVE CO.

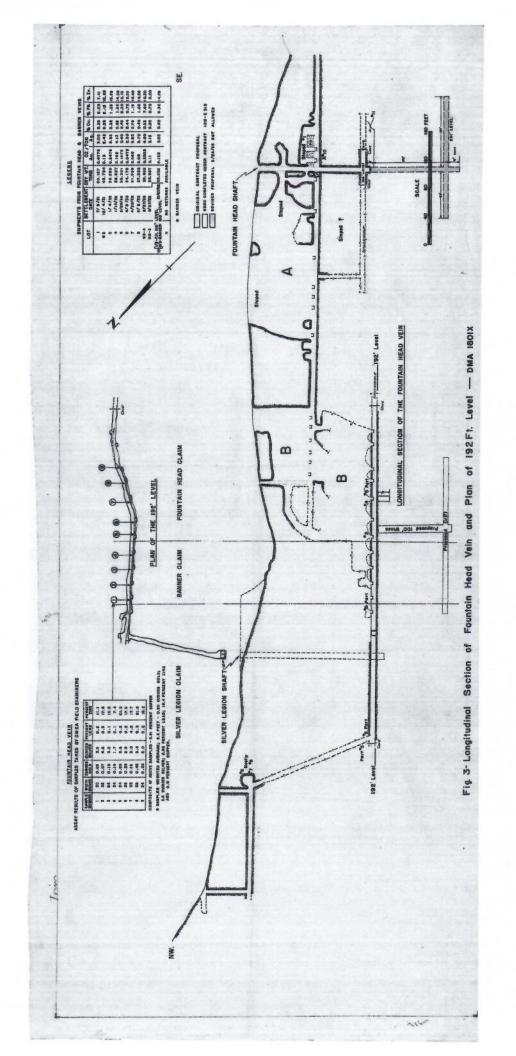
Geo. F. Reed says leases have been given up on these properties. As per letter dated Oct. 10, 1957.

See: Ariz. Mng. Journal 3/1919, p. 33 Kingman Mining Project, Claim map 2, Underground map 4 p & s

MARK GEMMILL

This property idle.







CONTACT INFORMATION

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