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PROSPECTUS

MINERAL MOUNTAIN MINING & MILLING CO.
AN ARIZONA CORPORATION
(Incorporated September 28, 1948)
424 Title & Trust Building
Phoenix, Arizona

OFFERS:

90,000 shares of no par non-assessable common capital stock to be sold for cash at a price of \$1.00 per share or issued for services, supplies, and equipment. *

| | Offering Price | Underwriting Discounts & Commissions | Allowed Expenses | Net Proceeds To Issuers |
|-----------|-------------------|--|---------------------|----------------------------|
| Per Unit | \$ 1.00 | \$ 0.15 | \$ 0.05 | \$ 0.80 |
| Aggregate | \$90,000.00 | \$13,500.00 | \$ 4,500.00 | \$72,000.00 |

THESE SECURITIES ARE OFFERED PURSUANT TO AN EXEMPTION FROM REGISTRATION WITH THE SECURITIES AND EXCHANGE COMMISSION. THE COMMISSION DOES NOT PASS UPON THE MERITS OF ANY SECURITIES NOR DOES IT PASS UPON THE ACCURACY OR COMPLETENESS OF ANY OFFERING CIRCULAR OR OTHER SELLING LITERATURE.

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DATED: May 1, 1955

* The aggregate offering and net proceed to issuer are shown in cash amounts but will be reduced in accordance with the amount of stock issued for services, supplies and machinery. The actual net proceeds may be increased by sales upon which only a part of the Underwriting Discounts, Commissions and Expenses are allowed.

In connection with the offering by Mineral Mountain Mining & Milling Co., an Arizona corporation, of 90,000 shares of its no par, non-assessable common capital stock, the Company submits the following information, pursuant to Chapter 18 of the laws of Arizona, 1951, and pursuant to Regulation "A" under the Securities Act of 1933.

NAME AND ADDRESS OF ISSUER

The name and address of the issuer is the Mineral Mountain Mining & Milling Co., 424 Title & Trust Building, Phoenix, Arizona.

GENERAL CHARACTER OF BUSINESS TO BE TRANSACTED

The general character of the business transacted or to be transacted by the Company is the development and operation of mining property and reduction works.

PRINCIPAL ASSETS

The principal assets of the Company consist of eleven unpatented mining claims and one patented mining claim located in the Mineral Hill Mining District, Pinal County, Arizona.

These properties are located approximately seven miles in a southerly direction from Superior, Arizona, and approximately eighteen miles in a northerly direction from Florence, Arizona.

Improvements include a small camp and water supply adequate for mine development, adequate access roads, numerous shallow workings and two 100 foot inclined shafts. The Company owns miscellaneous mining equipment including 1 hoist, 2 compressors, a 10 k.w. light plant, a skip and buckets, mine cars, drills and shop tools suitable for development and the initial operation of the mine.

HISTORY OF THE PROPERTIES

The "Woodpecker" mining claim was located February 20, 1885, and was shortly thereafter patented under United States Mineral Survey No. 788. No accurate record of production from this or adjoining properties is available; however, high grade silver ores, having a gross value of some \$450,000 are reported to have been hauled to a smelter then operating on the Gila River at a settlement known as Cochran. The fact that this particular claim was patented in those early times lends credence to the otherwise unconfirmed reports of its early productive capacity.

At one time there appears to have been a small crude smelter located on the property. In an official report of the Department of Mineral Resources Newton Wolcott, an engineer for that department, states:

"The property has not been worked in a sizable way since the nineties, at which time some of the richer ores were mined and smelted on the ground. There has been no road of any sort nearer than seven miles from the property prior to about 1933, and any ore mined had to be packed out on burros for that distance."

Since 1933, and particularly during the period from 1937 to 1948, there have been sporadic shipments of sorted ores sent to the smelters at Superior, Arizona. The records of ore shipments during this period indicate that the shipments were made primarily for the purpose of recovering the silver content of the ores without regard to the recovery of lead content.

The last shipment made by this Company, in January of 1953, consisted of 46 tons which assayed 5.2 ozs. of silver and 18.5% lead. This shipment represented a combination of roughly sorted and mine run ores at a ton for ton ratio, and it is not implied that the shipment is typical of that which may be commercially extracted. A copy of the settlement sheet is attached to this Prospectus as an exhibit.

The principal activity of the Company has consisted of improving access roads, rehabilitating and improving the camp and equipping the project in a suitable manner for reopening the old workings and readying them for ore extraction. The management has accomplished rather extensive, if not methodical samplings, has surveyed the workings, has obtained independent engineering advice, and has partially prepared a mill site.

The activities of the Company to date have been primarily directed towards exploration, rehabilitation and preparation of the properties for commercial extraction of ore. Experimental mill tests have been conducted and smelter shipments have been made in order to determine the most practical method for the recovery of the valuable minerals contained in the ores. It is the intention of the Company to go forward with mine development and, if the results warrant further investment, to provide milling facilities for the concentration of ores mined from the properties.

ENGINEERING REPORTS AND APPRAISALS

The properties owned by the Company are on the outer fringes of the respective areas encompassing the Magma and the less prominent Raymurt properties. They have thus been overshadowed by these better known and developed properties, and have not been subject to particular study or notice in the reports of the United States Geological Survey, Bureau of Mines and other published reports on the general area.

MILL TESTS made by the Bureau of Mines of the University of Arizona show a combined concentration ratio of 13.1 to 100 and a recovery of 85.2% of the lead content and 94.6% of the silver content. This report has been

reproduced and is attached as a part of this Prospectus.

In July, 1940, MR. NEWTON WOLCOTT, a registered engineer, then with the Department of Mineral Resources, and now with the United States Geological Survey, filed a brief report with the Department of Mineral Resources of the State of Arizona on the "Gorham and Hall Group" and a similar report on the "Woodpecker" in February of 1940. The report has been reproduced and is attached as a part of this Prospectus.

In October of 1948, MR. W. S. COUPAL, a registered mining engineer, made a cursory examination of the property. This examination was prior to the time that this Company commenced active rehabilitation and development of the property, and the workings were not then entirely accessible. This report has also been reproduced and attached as a part of this Prospectus.

In March of 1951, MR. TRAVIS P. LANE, a registered mining engineer, and formerly Supervising Engineer, Phoenix Office, Reconstruction Finance Corporation, Mine Loan Division, reported on the property on behalf of the Company. This report is too lengthy to reproduce but the complete report is on file and is available for examination at the office of the Company.

The relatively shallow workings (97 feet) precludes an estimate of the tonnage of ore available in the properties but it is the opinion of the management, based upon the above reports, surface and other exposures, and the history of past operations, that expenditure of funds as proposed by this offering may develop commercially profitable ore bodies.

THE OFFERING

This offering consists of 90,000 shares of no par, non-assessable common stock at a price of \$1.00 per share, being \$90,000.00 in the aggregate. The per share proceeds, and the aggregate proceeds are subject to such underwriting discounts, commissions and expenses as may be allowed not in excess of 20% of the gross proceeds from the sale of shares. The corporation plans to issue not more than 10,000 shares for services at the rate of 1 share for each \$1.00 value of professional engineering services and for labor performed as determined by the prevailing wage rate for such service and may issue not more than 10,000 shares at the rate of 1 share for each \$1.00 value of supplies and equipment furnished to the Company.

The expense of printing, mailing, advertising, soliciting, and other expenses incurred in the sale of this issue shall not be allowed in excess of the aggregate amount of \$0.05 per share sold, and the underwriting discounts and commissions SHALL NOT EXCEED \$0.10 PER SHARE SOLD IF THE SALE SHALL BE MADE BY A DIRECTOR OF THE CORPORATION, and no allowances for expenses or for discounts or commissions shall be made upon any issue of shares in exchange for services, supplies and

equipment. If by reason of the above, additional net proceeds are realized, the same will be applied equally to Items 6 and 7 below.

PURPOSE OF THE OFFERING

The aggregate amount of the cash proceeds to be realized from the sale of the offered securities and from the issues for services, material and equipment will be used for the following purposes in the listed amounts, except as such amounts may be varied by the issue of these securities for services, supplies and equipment:

Item

| | | |
|---|----|---------------------|
| 1. Reserve for payment of notes, miscellaneous expense and expense of registration..... | \$ | 5,000.00 |
| 2. Camp site and road improvement..... | | 5,000.00 |
| 3. Assay, laboratory and equipment..... | | 4,000.00 |
| 4. Shop facilities and equipment repair..... | | 5,000.00 |
| 5. Additional equipment..... | | 8,000.00 |
| 6. Mine operations, supplies, labor and insurance..... | | 40,000.00 |
| 7. Contingencies, engineering, legal, accounting and other expense..... | | 5,000.00 |
| Total | | \$ 72,000.00 |

The above tabulation lists the expenditures to be made in their general order of priority. The issuer does not plan to undertake expenditures until the sum of \$25,000.00 has been accumulated and then plans to make a simultaneous application of funds as to Items 1 and 2, followed by a simultaneous application of funds as to Items 3, 4 and 5, and thereafter funds will be applied as to Item 6. Expenditures may be made under Item 7 in the course of expenditure under Items 1 through 6. The purpose of the above expenditures and of the offering is to explore at greater depth and by means of a shaft suitable for extraction of the ores presently found on the surface and in upper levels. If commercially valuable ores in sufficient quantity can be developed, the company then contemplates a further offering of its securities to acquire funds for a milling and concentrating installation on the properties.

THE MANAGEMENT

The name, address and business experiences of each officer and director of the Company is as follows:

ORLYN L. DAWSON, President and Director, residing at 5237 Mt. Royal Drive, Los Angeles 41, California. Mr. Dawson has been a technician with International Business Machines for the past 10 years. He has engaged in mining activities since 1927. Active in the development and management of mining properties, Mr. Dawson is also experienced in the development of electrical and electronic geophysical equipment with relation to exploration and development work done on mining properties. He has been associated

with the location and development of the "Gold Basin" Placer Field, the "King Tut" Placer Field and the "Climax" Group of Lode Claims located in Mohave County, Arizona, and he has also operated the "Badger Hill" Mine situated in northern California.

L. LEE BOYER, Vice-President, resides at 926 East 13th Street, Tempe, Arizona. He possesses broad experience in mine management, and is a registered assayer. Founding the Superior Assay Office in Superior, Arizona, more than 20 years ago for custom assaying in the Superior Mining District, Mr. Boyer has engaged in this profession up to the present date. He is currently the owner-operator of the Valley Assay Office located in Tempe, Arizona. His background includes employment as a consulting engineer for the Van Dyke-Raymurt Mine and assayer for the Queen Creek Copper Company. Mr. Boyer has had wide experience in all phases of mining operations having operated the Superior Ore Buying Company for the purpose of sampling, assaying, classifying and shipping small lots of ore. He discovered and developed the "popping" process of perlite and constructed the first pilot plant for such process. He worked out the flow-sheet for the first flotation mill at the "Silver Bell-Martinez" Mine, and was assistant purchasing agent of the Metal Reserves Division of the Reconstruction Finance Corporation for the State of Arizona in World War II. For the past two years he has been chief metallurgist for U. S. Manganese and Harquahala Milling Corporation.

CURTIN M. MILLER, Secretary-Treasurer. Mr. Miller's mailing address is 196 East 5th Street, Tempe, Arizona. Mr. Miller is a long-time resident of Arizona and, after graduation from high school, became employed by Tempe News, both a daily and a weekly newspaper in Tempe, Arizona. Mr. Miller as owner and publisher, sold the newspaper in 1944 and since has been engaged in general business and mining. Mr. Miller was also engaged as flotation mill man for U. S. Manganese and is familiar with milling operations.

ROBERT P. CURRY, Director. Mr. Curry's address is 1304 Lemon Street, Tempe, Arizona. Mr. Curry was a bank teller in the Valley National Bank at Prescott, Arizona, from the year 1939 through the year 1941, and thereafter entered the armed forces of the United States and served from the year 1941 through 1945. Mr. Curry then attended college from 1946 through 1949, and since 1949, has been engaged in teaching in elementary schools in Maricopa County, Arizona.

CARL C. WATERBURY, Director. Mr. Waterbury's address is P. O. Box 1, Apache Junction, Arizona. He was for many years engaged in the pharmaceutical and surgical supply business, and since his semi-retirement in 1944 has engaged in placer mining in the State of Nevada. He is presently Vice-President of the Goldfield Mining Company of Arizona.

WILLIAM A. PAYNE, Director. Mr. Payne resides at 1028 North 46th Street, Phoenix, Arizona. He has had 25 years experience in the maintenance

of industrial equipment, having been a machinist for the City of Phoenix from 1941 until 1949. Mr. Payne engaged in mining activities in the State of Arizona from 1949 to 1953 when he returned to his former employment with the City of Phoenix.

MARION C. BATES, Director. Mr. Bates resides at 327 East Windsor, Phoenix, Arizona, and was engaged in the used car business from 1944 to 1947. From 1947 to 1951 Mr. Bates was occupied in the sales and service of general insurance, and from 1951 to date hereof has been an employee of School District 66 of Maricopa County, Arizona, as supervisor and curriculum coordinator. During the past three years he has had summer employment with the Engineering Division of the National Park Service, United States Department of the Interior.

OFFICERS AND DIRECTORS, AS SUCH, SHALL NOT BE ENTITLED TO SALARIES UNTIL SUCH TIME AS THE COMPANY MAY REACH THE STAGE OF COMMERCIAL PRODUCTION, BUT SHALL NOT BE PRECLUDED FROM COMPENSATION FOR SERVICES ACTUALLY PERFORMED FOR THE COMPANY AT A RATE COMMENSURATE WITH THE SERVICES ACTUALLY ACCOMPLISHED.

CAPITAL STOCK OUTSTANDING

The authorized capital consisted of 500,000 shares of \$1.00 par value non-assessable common stock. By appropriate action of the stockholders on October 25, 1949, the authorized stock was amended so as to consist of 500,000 shares of no par value non-assessable common stock. Of the authorized capital stock a total of 180,423 shares are presently issued and outstanding and there are now eighty stockholders in the Company. The Company is committed to issue 24,821 shares to nominees of L. Lee Boyer and C. M. Miller by virtue of an agreement hereinafter set forth. Of the shares heretofore issued 126,153 shares were issued in consideration of the acquisition of mining properties and for mine development as follows:

1. L. Lee Boyer and C. M. Miller of Tempe, Arizona, jointly, in consideration of:
 - (a) Promotional, exploratory and development costs -- 32,056 shares;
 - (b) Leases, the patented Woodpecker and interests in the Old Badger and Gold Coin claims 47,797 shares.Total so issued 79,853 Shares

2. Victor E. Lamb of Florence, Arizona in consideration of the Orphan Boy Group. 20,000 Shares

3. Pat Gorham of Superior, Arizona, in consideration of a one-half interest in the

| | |
|---|-------------------|
| Hall-Gorham Group and the Old Badger and Gold Coin Claims. | 13,500 Shares |
| 4. Lillian Branaman of Florence, Arizona, and her assigns in consideration of a one-half interest in the Hall-Gorham Group. | 12,500 Shares |
| 5. To employees for services. | <u>300 Shares</u> |
| | 126,153 Shares |

The Company entered into negotiations with Victor E. Lamb, Pat Gorham and Lillian Branaman, who were neither promoters nor incorporators of the Company, for the purchase of properties by exchanging the capital common stock of the corporation as indicated on the preceding page. After negotiation, and with the consent of the Corporation Commission of the State of Arizona, the exchanges were effected.

STOCK HELD BY OFFICERS AND DIRECTORS

Jos. F. Walton is no longer a director of the corporation but holds 79,853 shares of the corporation stock for the equal benefit of himself, Wm. S. Ballard, a former director, and for Dawson and Payne, directors. All of the officers of the corporation are directors and their stock interests are as follows:

Directors:

| | |
|-----------------------------------|-----------------------------|
| O. L. Dawson, President | 19,963 $\frac{1}{4}$ Shares |
| L. Lee Boyer, Vice-President | 300 Shares |
| C. M. Miller, Secretary-Treasurer | 100 Shares |
| R. P. Curry | 3,000 Shares |
| Wm. A. Payne | 19,963 $\frac{1}{4}$ Shares |
| M. C. Bates | 1,000 Shares |

PRINCIPAL STOCKHOLDERS

There is no stockholder other than Jos. F. Walton who owns more than ten (10%) per cent of the issued and outstanding capital stock of the corporation and such holding is in the capacity of trustee as above indicated. Each of the beneficiaries of such trust, however, have a beneficial interest in more than ten (10%) per cent of the issued and outstanding stock.

MATERIAL CONTRACTS

L. Lee Boyer and C. M. Miller, both incorporators and directors of the Company, became interested in the Mineral Mountain Mining District prior to 1948 and expended sums in excess of \$20,000.00 and a great deal of time in acquiring leases to various of the properties and purchase options for the same. In consideration of their promotional services, their expenditures

and the transfer to the Company of leases on the 'Ophir', 'Silver Pick', 'Fairview', 'Jumbo' and 'Blue Belle' unpatented mining claims and title to the patented 'Woodpecker', the Company issued to them sufficient of its stock so that they became the holders of fifty-one (51%) per cent of the issued and outstanding stock. The Company further agreed that as additional stock was sold or issued, sufficient additional stock would be issued to them or their nominees without further and additional consideration to the Company so that they or their nominees will retain fifty-one (51%) per cent of all of the issued and outstanding stock at all times. The rights of Boyer and Miller have been assigned to Mr. Walton as trustee for Messrs. Dawson, Ballard and Payne, and by mutual agreement between all of the interested parties this continuing right has been limited and shall cease and terminate at such time as a total of 200,000 shares shall be issued in accordance therewith.

BY THE TERMS OF THE ABOVE AGREEMENT THE PARTIES OF INTEREST WILL MAINTAIN EFFECTIVE CONTROL OF THE CORPORATION BY THE OWNERSHIP OF FIFTY-ONE (51%) PER CENT OF ITS ISSUED OUTSTANDING STOCK UNTIL SUCH TIME AS THERE SHALL BE ISSUED 400,000 OR MORE SHARES OF THE STOCK OF THE CORPORATION.

By the terms of the above agreement, in the event the Company is successful in selling all or part of the present offer, the present parties of interest to the agreement will be entitled to have fifty-one (51) shares issued from the Company's capital stock for each forty-nine (49) shares sold.

No other officer, director or individual controlling the Company has entered into any contract, option or agreement with the Company or has an interest direct or indirect, except as a shareholder, in the assets of the Company.

CONCLUSION

The Company is not involved in litigation of any nature. The financial statement of the Company as of April 30, 1955 and a statement of cash receipts and disbursements for the period January 1, 1952, to April 30, 1955, are attached hereto as a part of this Prospectus and designated Exhibits "A" and "B" respectively.

This Prospectus has been compiled for the purpose of soliciting investment in the shares of the issuer which are herein offer.

MINERAL MOUNTAIN MINING &
MILLING CO., a corporation,

ATTEST:

/s/ Curtin M. Miller
CURTIN M. MILLER, Secretary-Treasurer

/s/ L. Lee Boyer
L. LEE BOYER, Vice-President

(Corporate Seal)

MINERAL MOUNTAIN MINING & MILLING CO.
Statement of Assets as of April 30, 1955.

| | <u>Shares</u> | <u>Dollars</u> | <u>Total</u> |
|--------------------------------------|---------------|----------------|--------------|
| <u>Current Assets:</u> | | | |
| Cash on Hand | | \$ 50.07 | |
| <u>Fixed Assets:</u> | | | |
| Buildings | | 374.33 | |
| Mining Properties | 94,097* | | |
| <u>Unrecovered Promotional</u> | | | |
| Exploratory and Development Costs | 32,056 | 39,260.60 | |
| | 126,153 | \$ 39,685.00 | |
| <u>Total Assets in Dollar Value</u> | | | \$39,685.00 |

STATEMENT OF CAPITAL STOCK
(Authorized issue: 500,000 no par value shares)

| | <u>Shares</u> | <u>Dollars</u> | <u>Total</u> |
|--|---------------|----------------|--------------|
| <u>Issued for Cash:</u> | | | |
| Shares exchanged for \$1.00 par value stock | 25,400 | \$ 6,350.00 | |
| Shares of no par value issued for \$1.00 | 28,870 | 28,870.00 | |
| <u>Issued for Promotional,</u> | | | |
| Exploratory and Development | 32,056 | | |
| <u>Issued for Mining</u> | | | |
| Properties | 94,097 | | |
| <u>Total Outstanding Shares</u> | 180,423 | | |
| <u>Total Cash Proceeds</u> | | | \$35,220.00 |

STATEMENT OF LIABILITIES

| | | |
|--------------------------------------|-------------|--------------|
| <u>Current Liabilities</u> | | |
| Misc. Loans Payable | \$ 4,465.00 | \$ 4,465.00 |
| <u>Total Liabilities and Capital</u> | | \$ 39,685.00 |

*This item is shown in shares only although the affidavits of Boyer and Miller show an expenditure in excess of \$20,000.00 in securing the mining properties. (See details of Boyer-Miller agreement, page 8)

MINERAL MOUNTAIN MINING & MILLING CO.
Statement of Cash Receipts and Disbursements for Period
January 1, 1952, to April 30, 1955

Cash Receipts:

| | |
|---------------------------------|---------------|
| Balance on hand January 1, 1952 | \$ 000.00 |
| Receipts from sale of stock | 20,470.00 |
| Receipts from sale of equipment | 2,110.00 |
| Receipts from loans | 1,715.00 |
| Receipts from ore sales | 1,468.26 |
| Receipts from machine rental | <u>347.62</u> |

Total Receipts for Period

\$ 26,110.88

Disbursements:

| | |
|-------------------------|--------------|
| Payroll | \$ 8,489.66 |
| Supplies, camp | 1,946.43 |
| Gas and oil | 277.11 |
| Machine hire | 6,579.00 |
| Machinery repairs | 370.63 |
| Mine supplies and tools | 2,861.38 |
| Office expense | 169.53 |
| Taxes | 320.43 |
| Travel | 1,595.46 |
| Truck repairs | 727.48 |
| Legal and audit | 1,385.00 |
| Insurance | 354.99 |
| Assay and engineering | 523.95 |
| License and fees | 385.35 |
| Secretarial | 60.71 |
| Other | <u>13.70</u> |

\$ 26,060.81

Balance of Cash as of April 30, 1955

\$ 50.07

file copy

R E P O R T
on
MINERAL MOUNTAIN MINING & MILLING CO.

Mineral Mountain Mining District
Pinal County, Arizona

Prepared and submitted

by

Travis P. Lane
Consulting Mining Engineer
Phoenix, Ariz.

March 20, 1951
Copy

MINERAL MOUNTAIN MINING
and
MILLING CO.

Property and Location

The property of the Mineral Mountain Mining and Milling Co., an Arizona Corporation (Sept. 28, 1948), is located in the Mineral Hill Mining district in Pinal County, Arizona. The Holdings consist of the "Woodpecker", patented claim and the "Hall-Gorham" (also known as the "Silver Pick") group of six unpatented claims surrounding the Woodpecker claim, and the "Orphan Boy" (also known as the Silver Queen) group of four unpatented claims. The latter group is located some 4 miles distant northerly from the Woodpecker claim. The patented claim is owned in fee and the unpatented claims are held by the company by the performance of annual work.

The camp and the presently active workings are reached by 10 miles of rough dirt road from a point on Highway 60 and 70, 20 miles southerly by paved road from the smelter of the Magma Copper Co. at Superior, Arizona, and 29 miles easterly from Mesa, Arizona, the nearest supply point. The roads are passable at all seasons of the year.

The region is typically southwest arid desert with light rainfall and scant vegetation and no timber. The topography is moderately rugged with sharp gulleys and ridges and few flat areas. Elevation at the property ranges from 2500 to 3000 feet above sea level.

History and Production

The first work in the district dates back to the early eighties and the first production was made from the Silver Bell mine followed shortly afterward by production from the Woodpecker mine. Each of these properties is credited with a large early day production of high grade silver ore.

Another substantial producer in early days, and again in recent years, is the nearby Raymert mine credited with over 2 million ounces of silver. A modest production, old and recent, has been made by a considerable number of other properties in the immediate vicinity of the Mineral Hill Mining and Milling

Company holdings.

The ore of the district because of its highly silicious character is desirable as a smelter flux and for this reason it has generally been accorded favorable treatment rates at the smelters at Superior and Miami. The ores all carry an appreciable amount of lead, and often zinc also, and except for a few lots sent to a lead smelter, the ore has all been sent to Copper Smelters as "dry" silver ore and no payment was received for the base metal content. No serious attempt has been made to concentrate the ore and thus realize something for the base metals because until quite recently the market for these metals was not sufficiently favorable to warrant the treatment procedure. The ore does not respond readily to cyanide treatment for the recovery of the silver because of its manganiferous character and for this reason and also because of the proximity of the smelter and the favorable treatment rates offered no cyanide plants have been built.

Recorded production in recent years from the properties now held by the Mineral Hills Mining and Milling Co. has amounted to approximately 450 tons most of which was sent to copper smelters as silver ore and assayed 16 oz. Ag. and about 3.5% Pb per ton; and three lots sent to a lead smelter averaged 7.7 oz. Ag and 11.9% Pb. Also several hundred tons of silver ore were shipped from the property by another operator just prior to the acquisition of the property by the present company. No settlement records are available regarding these shipments, but the ore is said to have been of about the same grade as the silver ore shipments noted above. All of the ore shipped by the present owners was derived from exploration of the veins at different places on the claims and no systematic mining operations have been undertaken. Because of unfavorable transportation and treatment costs for crude lead ore most of this class of material, which constitutes the greater part of the developed ore, was stock piled or left in the dumps. The present operators propose to build a mill on the property and concentrate the ore and ship a lead concentrate to El Paso. Occasional high grade bunches of silver ore will be shipped as direct smelting ore.

Geology and Mineralization

The county rock of the region in which is located the Woodpecker claim and the surrounding Hall-Gorham group of claims is a micaceous schist. The schist is intersected by numerous silicified mineralized shear zones the general trend of which is NW-SE with southwesterly dips varying from 40 deg. to nearly vertical.

The shear zones or "veins" range from several feet to thirty feet in width and are readily traceable on the surface because of their reef-like croppings which often rise many feet above the surface. The walls are well defined and the structure of the vein is of the "ribbon rock type" i.e. parallel longitudinal banding of alternating types of vein material. Quartz and coarsely crystalline calcite are the most common constituents of the veins with, however, much manganese and limonite occurring as coatings and as powdery fillings in cavities in the veins. Amethystine quartz in drusy cavities is a common occurrence in the veins.

The veins all carry an appreciable amount of silver in the form of cerargyrite and probably some argentite, and lead in the form of cerussite, anglesite and galena. Some zinc as sphalerite is present also. Portions of the veins which carry a substantial amount of silver are more silicious than those parts which are higher in lead content and where calcite, generally manganese stained, is the principal gangue mineral. Leaching and oxidized mineralization is evident on the surface in all the veins. At shallow depth, however, and often on the surface, galena is the predominant lead mineral. A sprinkling of galena is often present with low silver values across the full width of the vein, but the better mineralization is generally found in a band several feet wide against the hanging wall with a clay gouge seam on the wall. Some oxidized copper mineralization is seen in the veins, but the occurrences of copper are sporadic and unimportant in amount.

A small amount of development on the Orphan Boy group discloses at one place two closely parallel shear zones in rhyolite. The veins are separated by a small intrusive mass of monzonite, and the mineralization is similar to that of the Hall-Gorham group except that there is less manganese and an appreciable amount of zinc is present in the form of sphalerite of the "rosin jack" type. The surface here is covered by a heavy mantle of gravel wash and detrital material from high bluffs, and vein cropping are rare.

Development and Sampling

There are many veins throughout the claims and practically all have been developed to some extent. The principal development, however, has been done on the Woodpecker vein and on four prominent veins in the Hall-Gorham group of claims, and shipments of ore have been made from each of these veins. Also, some work has been done on two veins on a claim of the Orphan Boy group and a small production made from them.

The more interesting working places in the property were sampled by the writer and the developments (excepting the Orphan Boy) were compass surveyed. Most of this development and all of it is described in the following paragraphs:

Woodpecker vein The workings here are very old and are of the shaft dump is evidence of fairly extensive underground development. There are no other important surface openings on the vein. The production from this vein appears to have been made from a large lens or pocket of high grade silver ore. No maps or production records are available.

Grandfather vein This ledge which has an average width of about 12 ft. courses through a large portion of the Woodpecker claim with a NW-SE strike and a dip of approximately 45 deg. southwesterly. It is developed by cuts and pits and trenches, and a shaft 52 feet deep (vertical plus incline) in about the center of the Woodpecker claim. A drift extends southerly from the bottom of the shaft for a distance of 50 feet. The drift is driven in the hanging wall portion of the vein and in its most southerly part it passes out of the vein into the barren hanging wall. A carload assaying approximately 22 oz. of silver per ton was shipped from this dump. No lead assay is available.

At a distance of some 350 feet south from the shaft a cut has been opened on the vein for a length of 40 feet and width of 4 feet and average depth of 6 feet. A small lot (3 tons) assaying 5.3 oz. Ag and 39.0% Pb and a carload (46) tons assaying 1.7 oz. Ag and 9.25% Pb were shipped from here. The work was done on the hanging wall side of the vein. The condition of the working place did not permit taking a sample which would be representative, but mineralization with continuity was clearly evident.

Sampling in the shaft area gave the following results:

| Sample No. | Width | Oz. Ag. | % Pb | Remarks |
|------------|-------|---------|-------|--------------------------|
| 11 | 37" | 38.4 | 14.20 | 3 cuts combined on level |
| 12 | 38" | 5.4 | 4.6 | across vein in shaft |
| 13 | dump | 30.2 | 5.7 | dump-approx. 75 tons |

Silver Pick vein The croppings of this vein show prominently along the border between the Woodpecker and the Silver Pick claims with strike about the same as that line. An incline shaft has been sunk to a slope depth of 100 ft. on the vein with

a level at 85 feet where drifting and stoping south of the shaft connect with an old vertical shaft. Several carloads of ore were shipped from the stoping here, but no settlement records are available. The workings in the stoped area are partially caved. The incline of the shaft (50 deg.) is somewhat steeper than the vein and passes through the vein a short distance below the collar. A cross-cut in the west wall of the 85 ft. level drift encounters the vein at 15 feet. A sample here assayed 2.60 Oz. Ag., 3.5% Pb across 45".

The vein is opened on the surface by a cut extending 150 feet southerly from the shaft, and the old stoping from below holes through into the cut in its central position.

At a distance of approximately 200 feet northwesterly from the shaft and some 50 feet lower a tunnel has been driven 50 feet northwesterly on the vein. A carload from here assayed 22 Oz. Ag. (no lead assay available). It is reported that the good ore here is present in the lower part of the tunnel. The upper part is dirt and leached vein material. The floor of the level was covered with debris and it was not possible, therefore, to sample there. The dump has been segregated into two piles, one in which the values are predominantly lead, and the other from the foot wall of the vein with values predominantly silver.

The sampling results from the workings on the Silver Pick vein are tabulated as follows:

| Sample No. | Width | Oz. Ag. | % Pb | Remarks |
|------------|-------|---------|-------|-----------------------------|
| 1 | dump | 6.4 | 1.80 | Incline shaft dump |
| 2 | " | 6.8 | 2.60 | Vertical shaft dump |
| 3 | " | 1.6 | 6.30 | Tunnel dump - 75 tons |
| 4 | " | 8.2 | 2.80 | " " 100 tons |
| 18 | 42" | 22.8 | 14.90 | End cut south of shaft |
| 23 | 45" | 2.6 | 3.5 | Vein in 85' level cross-cut |

Badger vein This vein is characterized by bold croppings on the north end of the Silver Pick claim and the south portion of the Badger claim. A crosscut tunnel has been driven northwesterly in the bank of a gulley near the south end of the Badger claim and short drifts extended on the vein in both directions. Also a shallow pit has been excavated on the hanging wall side of the vein north and above the tunnel workings. A carload of 17 oz. the silver ore was shipped from here. Sampling here gave the following results:

| Sample No. | Width | Oz. Ag. | % Pb | Remarks |
|------------|-------|---------|-------|------------------|
| 14 | 72" | 81.6 | 11.90 | Face S drift |
| 15 | 44" | .40 | 4.90 | " N " |
| 16 | dump | .60 | 10.50 | Tunnel dump |
| 17 | 26" | 2.40 | 10.80 | Pit above tunnel |

Jumbo vein A crosscut into a steep hill in the southwest corner of the Jumbo claim intersects the Jumbo vein which is drifted upon for a distance of 50 feet northwest, and 175 feet in the southeast end. The vein strikes N 65 W and dips approximately 70 deg. SW. The mineralization of the vein is irregular and the vein material shows considerable movement. Sampling here indicates the presence of two short ore shoots, one at the raise being partly mined. The sampling in this working place is tabulated below:

| Sample No. | Width | Oz. Ag. | % Pb | Remarks |
|------------|-------|---------|------|-----------------------------|
| 5 | 54" | 49.6 | 4.7 | Wall of raise 12' up |
| 6 | 16" | .8 | 5.7 | Split vein |
| 7 | 33" | 10.8 | 3.2 | Vein in drift below # 5 |
| 8 | 41" | 2.4 | 3.9 | Vein 20' NW from # 7 |
| 9 | 29" | 4.2 | 4.9 | 2 cuts vein, 62' NW from #8 |
| 10 | dump | 3.8 | 9.5 | Vein material on dump |

Blue Bell vein An incline shaft has been sunk to a depth of approximately 60' at 65 deg. dip SW in croppings of the Blue Bell vein which courses through a large part of the Blue Bell claim with occasional prominent croppings. The shaft was inaccessible. A sample of a small pile of vein material on the shaft dump assayed 17.6 Oz. Ag. 7.70 % Pb. Several shallow cuts have been made along the vein croppings, but there are no workings of importance other than the shaft.

Orphan Boy vein There is only one working place of note in the Orphan Boy group of claims. Here a crosscut tunnel enters a low hill of rhyolite and at 150 feet opens into the bottom of a small pit. A small amount of high grade lead-silver ore was selectively mined in this pit which measures 30 feet long by 30 feet average depth and 10 feet average width. A contact vein striking E.W. and dipping 60 deg. southwest is exposed here with rhyolite hanging wall and a monzonite foot wall. The monzonite is a thin dike-like intrusion in the rhyolite with width of a proximately 30 feet. A foot wall contact vein parallel to the hanging wall is opened in a cut on the foot wallside of the monzonite. The veins have the same mineral characteristics i.e. each contain a sprinkling of coarse galena and some canary yellow sphalerite

with some oxidized mineralization of lead and zinc. The gangue minerals are quartz, brown calcite, and limonite in gouge seams. The veins are covered by detrital material on each side of this working place and no determination of its continuity is possible. The discard vein material from the workings on both veins is combined in two dumps containing a total of some 100 tons. The vein in the large cut was sampled in two sections. The cuts were somewhat caved and the floors filled with debris. Sampling results here are tabulated as follows:

| Sample No. | Width | Oz. Ag. | % Pb | % Zn | Remarks |
|------------|-------|---------|------|------|-----------------------|
| 20 | 7.5 | 131.80 | 5.25 | 1.75 | Hanging wall of vein. |
| 21 | 7.5 | 16.80 | 2.45 | 3.15 | Foot wall |
| 22 | dump | 25.20 | 7.00 | 2.30 | Combination 2 dumps. |

Mining

The ground is firm and will not require timber for support. The veins show good continuity of values and good stopping widths with dips steep enough for gravity flow of ore. The logical mining method will be shrink stopping. These factors all favor a low mining cost which here ought not to exceed \$6.00 per ton including an adequate scale of development ahead of ore extraction.

Milling

Mill tests on the ore here show a recovery of 83.7% of the silver and 93.4% of the lead by gravity concentration on coarsely ground material (50% on 35M).

The company owns some milling equipment including a crusher, a set of rolls etc. They propose to install a gravity concentration plant of 100 tons per day capacity. During the early development and production stages of the enterprise anticipated tonnage milled is expected to be 1/3 or 1/2 of this capacity. It is believed that with a coarse grind and a simple gravity circuit the milling cost will not exceed \$2.00 per ton.

The tests show that concentrate containing 38.4% lead (or 768 lbs.) will be made. At the prevailing price for lead (17¢ per lb.) the smelter will pay for (768 - 30) x .90 or 664.2 lbs. @ 15¢ per lb. or \$99.63 for the lead in the concentrates. Smelter charges plus transportation costs will be approximately \$12.50 per ton and net value to the mine, therefore, will be \$87.13 per ton or 11.3¢ per lb. of lead contained in the concentrates. This is not a figure which is exactly applicable for estimating ore values

but it is reasonably correct for purposes of estimation. The smelter will pay for 95% of the Silver at 88.5¢ per ounce and a figure, therefore, of 84¢ per ounce can be used for purposes of estimation.

Finer grinding and flotation treatment would result in better recoveries and a higher grade of concentrate and eventually, if upon further development the present promise of the property is realized, the more costly flotation installation would be justified.

Ore Reserves and Values

It will be seen from the above that the cost of mining and milling is estimated at \$8.00 per ton. If to this is added \$1.00 per ton for overhead and general expenses the total estimated cost is \$9.00 per ton. With recoveries as shown in the tests the economic cut-off grade would be about \$10.00 per ton, and in the following estimates of reserves only material of this grade or better is considered to be ore.

Sampling at various places on the veins has indicated the presence of several ore shoots and the probable presence of others. At no place, however, has sufficient systematic work been done to permit the designation of any tonnage as "Blocked" or "Proven" ore in the accepted sense of being bounded by openings on three sides. The sampling, nevertheless, shows enough continuity of values at places to justify a classification of "Reasonably Assured" ore for blocks of ground at a number of places. Values are seen to extend to slope depths of approximately 100 feet in the incline shaft on the Silver Pick vein and 50 feet on the Grandfather vein, and 135 feet on the Jumbo vein. It is assumed, therefore, that the values shown by the sampling will extend to a depth on the vein of at least 100 feet. It is assumed also (where there is no evidence to the contrary) that the length of the ore shoots will be 25% greater than that now exposed, and these assumptions are used in estimating tonnages of Reasonably Assured ore.

In estimating "Probable Ore" it is assumed that the ore shoots will continue 200 feet further (or 300 feet from the outcrop). This depth would correspond to the approximate depth at which the permanent water table was reached in some neighboring properties. This limit is arbitrary, however, since ore is known to extend into the water zone in other properties in the district without diminution in values. In fact there is a good possibility for finding some secondary enrichment at this horizon.

"Possible Ore" would depend upon greater extensions laterally and in depth than those assumed in the above estimates and since such extensions would be entirely conjectural in the present state of development of the property no attempt is made to estimate tonnage for this classification.

The Grandfather vein has been opened at a number of places with continuous ore showings for a length of over 350 feet. Samples taken in the shaft and from the shaft dump show an average of 24.5 Oz.Ag. and 8.16% Pb. Shipments from this place contained moderately high silver values with low lead content and shipments from the south end of the shoot assayed low silver with moderately high lead. If the average of the shaft assays is averaged with the shipment assays from the south end the general average is 13.3 Oz.Ag. and 9.7% Pb. Assuming a length of 435 feet and depth of 100 feet and width of 3.5 feet the tonnage in the block (at 12.5 cu.ft. per ton) would be 12,180 tons.

The Silver Pick vein is opened by a long cut, a vertical shaft and a tunnel, and smaller openings throughout a distance of 400 feet. Assuming a shoot length of 500 feet, depth 100 feet and width 3.5 feet, the block would contain 14,000 tons. Samples across the vein (samples Nos. 18 and 23) show an average of 12.7 Oz.Ag. and 8.20% Pb. Samples Nos. 1, 2, 3 and 4 represent discard material from shipments amounting to several hundred tons. A car from the tunnel on the north end of the shoot assayed 22 Oz.Ag. with estimated 3% Pb and shipments amounting to several hundred tons. from the shaft workings are said to have assayed 15 to 20 Oz.Ag. and 5.3% Pb. Since this average includes much discard dump material after sorting the figure may be considered to be conservative.

The Badger vein is opened by a tunnel and a small pit above and beyond the tunnel face. These openings show an ore shoot length of 100 ft. It will be noted that one sample (NO. 14) shows a quite high silver assay. Silver content of these veins is quite erratic and since this assay is far out of line with the other assays here it would seem to be safer to assign a silver assay to the sample no higher than that of the carload shipped from here i.e. 17 oz. per ton. The average then of the 4 assays, including the dump, would be 5.1 Oz.Ag. and 9.5% Pb. A block here having the dimensions: 125' x 100' x 4' would contain 4500 tons.

The Jumbo vein is opened by a drift from a crosscut 135 feet below its croppings. Samples (5 and 7) and 8 represent an ore shoot length of 30 feet with average assay of 16.3 Oz.Ag. and 3.9% Pb. Sample No. 9 represents an ore shoot length of 20 feet

with assay of 4.2 Oz. Ag. and 4.9% Pb. The ore blocks from here to the surface would contain in the first shoot approximately 1100 tons and for the second 540 tons. The total for the two shoots is 1636 tons with weighted average assays: 12.4 Oz. Ag. and 4.2% Pb.

Summarizing the above ore estimates and calculating net values on the basis outlined under "milling" (pages 8 and 9):

| <u>Vein</u> | <u>Tons</u> <u>Reas. Assur.</u> | <u>Probable</u> <u>Tons</u> | <u>Total</u> | <u>Oz. Ag.</u> | <u>% Pb</u> | <u>Net</u> <u>Value p.t.</u> |
|--------------|------------------------------------|--------------------------------|---------------|----------------|-------------|---------------------------------|
| Grandfather | 12,180 | 24,360 | 36,540 | 13.3 | 9.7 | \$ 31.92 |
| Silver Pick | 14,000 | 28,000 | 42,000 | 8.1 | 5.3 | 18.78 |
| Badger | 4,000 | 8,000 | 12,000 | 5.1 | 9.5 | 25.75 |
| Jumbo | <u>1,640</u> | <u>2,440</u> | <u>4,080</u> | <u>12.4</u> | <u>4.2</u> | <u>19.91</u> |
| Totals & Av. | <u>32,320</u> | <u>61,800</u> | <u>94,620</u> | <u>9.8</u> | <u>7.5</u> | <u>\$ 25.18</u> |

In addition to the above blocks of Reasonably Assured and Probable ore the chances seem very good for developing a volume of ore in the Orphan Boy workings where sampling shows substantial values and good widths of ore. Also, the values in the dump sample (No. 19) from the shaft on the Blue Bell claim suggest that something worth while might be developed here. There are many vein showings on the surface other than those discussed in this report and with producing operations in progress some of these will deserve prospect exploration. It is worth noting that values are generally present, but not developed, in broader vein widths than those sampled and undoubtedly there will be places where mining will be profitable over these greater widths.

Indicated Profit

If 15% is allowed for dilution the ore estimated above will have a net value at the mine of approximately \$21.50 per ton, and with a mill recovery of 85 to 90% the recovered value will be approximately \$19.00 per ton. With working costs estimated at \$9.00 per ton the indicated profit, therefore, is \$19 - 9 or \$10.00 per ton.

Equipment

The principal items of equipment are listed as follows:

- 1 Le Roy Rix Compressor with a 15-30 D International Eng.
- 1 Ingersoll-Rand Compressor - 210 cu. ft/min.

- 1 30 HP Hoist
- 1 Small Deming 2-stage water pump with gasoline engine
- 1 Mine car
- 1 Ingersoll-Rand Jack hammer
- 1 " " stoper
- 1 10 K.W. Light plant
- 1 Wheeling jaw crusher - 15" x 17"
- 1 3-deck Denver vibrating screen
- 1 set rolls

Also rail, pipe, water hose, bits, etc. for a modest scale development job.

Water

The region is quite arid and infrequent rainfalls generally occurs as flash floods with quick run-off and little storing of water in the gravels of the washes. Water for the camp is pumped from a well in a nearby narrow wash. The well makes water at the rate of approximately 3 gals. per minute. The company has arranged to pump water from a shaft on an adjoining claim, the Blue Crystal, with output from the shaft reported at about 10 gallons per minute. Additional small sources of water can be developed by shallow wells in gulleys near the mine. It seems probable that enough can be gathered from these sources to supply a mill of 30 to 40 tons per day capacity, assuming careful conservation and efficient reclamation from tailings ponds.

Camp

The camp is located on the Woodbecker claim with accommodations for a crew of 6 or 8 men. Camp buildings consist of a cook house, bunk house, shop building and housing for the electric light plant, and a change house, also a tent.

Recommendations

The writer recommends that the necessary work be done to block out and prepare for mining the estimated reserve of Reasonably Assured ore. This would require:

- 1) Sinking the Silver Pick incline shaft another 50 feet and drifting some 500 feet on a new lower level.
- 2) Sinking the Grandfather shaft 50 feet deeper and drifting some 400 feet on the vein at the bottom.
- 3) Sinking 100 feet on the Badger vein and drifting 100 feet on the vein at that depth.

Cost for the above development is estimated as follows:

| | | | |
|--------------------------------------|--------------------------|------------|--------------|
| Sinking | 200 feet (2 compartment) | @ \$ 80/ft | \$ 16,000 |
| Drifting | 1000 " | @ \$ 16/ft | 16,000 |
| Equipment and camp and contingencies | | | <u>8,000</u> |
| | Total | | \$ 40,000 |

With favorable results in the early part of the above development the construction of a gravity concentrating plant as contemplated by the company would be justified, and the balance of the development would become an operating account paid for out of operating income.

Conclusions

It is estimated that approximately 32,000 tons of Reasonably Assured Ore and 62,000 tons of Probable Ore, or 94,000 tons of both classifications, are indicated in the workings in four veins on the property. Sampling shows an average net value at the mine for this estimated tonnage of \$25.18 per ton. After making allowances for dilution and mill metallurgical losses, and after deducting estimated costs the indicated profit margin is approximately \$10.00 per ton. On this basis, therefore, the property offers an excellent promise of becoming a profitable moderate size producer.

The above tonnage estimates are made on conservative assumptions of extensions of ore both laterally and in depth beyond present exposures and do not consider the probability that the veins will in places be mined for greater widths than those shown in the sampling. Also, no allowance is made for the good ore showings in the Orphan Boy workings, and for possibilities in several other untested veins in the property. Altogether then the property might be considered to hold attractive long range possibilities for developing into a quite substantial producer.

Travis P. Lane

March 20, 1951
Phoenix, Ariz.

TPL:rb

PROSPECTUS

MINERAL MOUNTAIN MINING & MILLING CO.

(INCORPORATED UNDER LAWS OF THE STATE OF ARIZONA)

NO DEALER, SALESMAN OR ANY OTHER PERSON HAS BEEN AUTHORIZED TO GIVE ANY INFORMATION OR TO MAKE ANY REPRESENTATION OTHER THAN CONTAINED IN THIS PROSPECTUS, AND IF GIVEN OR MADE SUCH INFORMATION OR REPRESENTATION MUST NOT BE RELIED UPON AS HAVING BEEN AUTHORIZED BY THE COMPANY. THIS PROSPECTUS DOES NOT CONSTITUTE AN OFFERING OR SOLICITATION BY THE COMPANY OR ITS AGENTS IN ANY STATE IN WHICH THE AGENT OR UNDERWRITER IS NOT QUALIFIED TO ACT AS A DEALER OR BROKER OR IN WHICH SUCH OFFERING MAY NOT BE LAWFULLY MADE. NEITHER THE DELIVERY OF THE PROSPECTUS, NOR ANY SALE MADE HEREUNDER, SHALL UNDER ANY CIRCUMSTANCES CREATE ANY IMPLICATION THAT THERE HAS BEEN NO CHANGE IN THE AFFAIRS OF THE COMPANY SINCE THE DATE OF ISSUE HEREOF.

THE SECURITIES OFFERED AND HEREINAFTER DESCRIBED HAVE BEEN REGISTERED WITH THE ARIZONA CORPORATION COMMISSION PURSUANT TO THE LAWS OF THE STATE OF ARIZONA, CHAPTER 18, SESSION LAWS 1951.

BECAUSE THESE SECURITIES ARE BELIEVED TO BE EXEMPT FROM REGISTRATION, THEY HAVE NOT BEEN REGISTERED WITH THE SECURITIES AND EXCHANGE COMMISSION. BUT SUCH EXEMPTION, IF AVAILABLE, DOES NOT INDICATE THAT THE SECURITIES HAVE BEEN EITHER APPROVED OR DISAPPROVED BY THE COMMISSION OR THAT THE COMMISSION HAS CONSIDERED THE ACCURACY OR COMPLETENESS OF THE STATEMENTS IN THIS COMMUNICATION.

1952

THE OFFER

THE COMPANY IS OFFERING FOR SALE TO THE PUBLIC IN ARIZONA AND IN SUCH OTHER PLACES AS IT MAY HEREAFTER BECOME LEGALLY AUTHORIZED AND QUALIFIED TO MAKE THIS OFFER, 100,000 SHARES OF ITS COMMON CAPITAL STOCK (FULLY-PAID AND NON-ASSESSABLE), AT A SELLING PRICE OF \$1.00 PER SHARE. THE COMPANY HAS AN AUTHORIZED CAPITAL OF \$500,000.00 DIVIDED INTO 500,000 SHARES OF NO PAR VALUE. THE OFFER IS BEING MADE FOR THE BENEFIT OF THE COMPANY, AS ISSUER.

AS ALL SALESMEN OF THE STOCK HAVE AGREED TO TAKE THEIR COMMISSIONS IN STOCK IN THE AMOUNT OF 15% OF THE STOCK SOLD PLUS NOT OVER 5% FOR EXPENSES, A STATEMENT OF THE OFFER IS AS FOLLOWS:

| <u>PRICE TO PUBLIC</u> | <u>UNDERWRITING COMMISSIONS</u> | <u>EXPENSE OF ADVERTISING & SOLICI- TATION</u> |
|--------------------------------------|-------------------------------------|--|
| PER SHARE \$1.00 | .15 | .05 |
| TOTAL ^{85,000} \$100,000.00 | ^{12,750} \$15,000.00 | ^{4,250} \$5,000.00 |

| <u>PROCEEDS TO COMPANY</u> | |
|----------------------------|----------------------------------|
| PER SHARE | ^{.95} .80 |
| TOTAL | ^{750,00} \$80,000.00 |

WITH THE CONSENT OF THE ARIZONA CORPORATION COMMISSION AND BY PERMISSION GRANTED IN 1948-49-51, THE COMPANY HAS ISSUED STOCK TO THE ORIGINAL INCORPORATORS FOR PROPERTIES AND SERVICES, EXCHANGED 46,000 SHARES FOR ADDITIONAL MINING PROPERTIES AND SOLD 39,100 SHARES.

HISTORY OF THE PROPERTIES

MINING OF THE PROPERTIES OWNED BY THE COMPANY BEGAN WITH THE LOCATION OF THE WOODPECKER CLAIM IN 1885. THIS PROPERTY WAS WORKED PROFITABLY UNTIL THE COUNTRY WENT OFF THE SILVER STANDARD AND OVER \$450,000 WORTH OF SILVER WAS REMOVED IN A RELATIVELY SHORT PERIOD BY WAGON AND MULE TRAIN. THE SILVER PICK CLAIM, CONTIGUOUS TO THE WOODPECKER, WAS SUBSEQUENTLY LOCATED AND WHEN A RISE IN THE PRICE OF LEAD AND SILVER MADE OPERATION PROFITABLE, CONFLICTS AROSE BETWEEN THE OPERATORS OF THESE TWO CLAIMS. OTHER CLAIMS WERE LOCATED SURROUNDING THESE CLAIMS AND IT WAS NOT UNTIL THE FORMATION OF THE MINERAL MOUNTAIN MINING & MILLING COMPANY THAT THE TITLE TO THE PROPERTIES WAS HELD BY A SINGLE GROUP. THIS GROUP OF CLAIMS IS KNOWN AS THE "HALL-GORHAM" GROUP AND WAS INACCESSABLE TO MOTOR TRANSPORTATION UNTIL RELATIVELY RECENTLY. AT PRESENT THE PROPERTIES MAY BE REACHED BY PASSENGER CAR OR TRUCK OVER A GOOD DIRT ROAD PARTIALLY MAINTAINED BY THE COUNTY. DEVELOPMENT WORK, ROAD IMPROVEMENT AND MACHINERY COSTS EXHAUSTED THE RESOURCES OF THE INDIVIDUALS OWNING OR HAVING A RIGHT TO THE PROPERTY.

HISTORY OF THE COMPANY

THE MINERAL MOUNTAIN MINING & MILLING Co. WAS INCORPORATED ON SEPTEMBER 28, 1948, IN THE STATE OF ARIZONA. THE COMPANY WAS ORGANIZED TO ACQUIRE, DEVELOPE AND OPERATE THE PATENTED "WOODPECKER" AND THE "HALL-GORHAM" GROUP OF CLAIMS AND HAS ACQUIRED, IN ADDITION THERETO, THE SILVER QUEEN CLAIMS 1 TO 4 KNOWN AS THE "ORPHAN-BOY" GROUP. THESE CLAIMS ARE LOCATED APPROXIMATELY 7 MILES SOUTH AND WEST OF SUPERIOR, ARIZONA, IN THE MINERAL HILL MINING DISTRICT AND SITUATED IN TOWNSHIPS 2 & 3 SOUTH, RANGE 11 EAST, PINAL COUNTY, ARIZONA.

APPROXIMATELY 7 TONS OF ORE HAVE BEEN SHIPPED FROM THE JUMBO, BADGER AND SILVER PICK. THIS ORE ASSAYED APPROXIMATELY 16 OUNCES OF SILVER AND 3.5% LEAD PER TON BEING SENT TO COPPER SMELTERS AS SILVER ORE. ON THREE SHIPMENTS SENT TO A LEAD SMELTER THE ORE AVERAGED 7.7 OUNCES OF SILVER AND 11.9% LEAD PER TON. TESTS OF THE ORE RUN FOR A DRY CRUSHING, SCREENING AND CONCENTRATING RECOVERY HAVE SHOWN THIS METHOD TO BE HIGHLY PRACTICAL FOR THE RECOVERY OF BOTH THE LEAD AND SILVER AND SUCH PROCESS REDUCES APPROXIMATELY 7 TONS OF MINED ORE TO 1 TON OF CONCENTRATE FOR SHIPPING PURPOSES WITH LITTLE LOSS OF VALUES. THE COMPANY IS NOW IN THE PROCESS OF INSTALLING A DRY CONCENTRATING PLANT OF THIS CHARACTER RATED AT 100 TONS CAPACITY PER 24 HOURS AND PLANS TO CONCENTRATE ORE AT THE RATE OF 50 TONS PER 24 HOUR PERIOD IN THE INITIAL STAGES. THE PRESENT OFFERING OF STOCK IS FOR THE PURPOSE OF SECURING THE NECESSARY FUNDS TO COMPLETE THE MILLING INSTALLATIONS AND DEVELOPMENT INCLUDING CAMP FACILITIES, ADDITIONAL ROAD WORK AND ACTUAL PREPARATION OF SHAFTS FOR THE REMOVAL OF ORE.

THE DEVELOPMENT OF THE PROPERTY HAS DISCLOSED EXTENSIVE ORE BODIES CONSERVATIVELY ESTIMATED AT THE TIME THE DEVELOPMENT WORK WAS COMPLETED AT 94,000 TONS OF REASONABLY ASSURED ORE. EXTENSIVE SAMPLING SHOWS AN AVERAGE VALUE OF \$25.18 PER TON AND ORE STOCK PILED AND READY FOR MILLING IS ESTIMATED AT 1200 TONS.

PURPOSE AND DISTRIBUTION OF PROCEEDS OF SALE

STOCK OF THE COMPANY WILL BE SOLD ONLY BY THE COMPANY THROUGH ITS DIRECTORS ALL OF WHOM WILL TAKE FOR THEIR SERVICES A COMMISSION ONLY IN STOCK AND AMOUNTING TO 15% OF THE STOCK SOLD.

AN ADDITIONAL AMOUNT NOT EXCEEDING 5% OF THE SELLING PRICE WILL BE ALLOWED IN CASH TO COVER THE EXPENSES INCURRED IN SELLING THE STOCK.

THE NET PROCEEDS FROM THE SALE OF THE OFFERED SECURITIES ARE TO BE USED IN THE DEVELOPMENT OF THE MINING PROPERTIES OF THE COMPANY AND THE USE AND DISTRIBUTION THEREOF, AS NEARLY AS CAN PRESENTLY BE ESTIMATED, ARE AS FOLLOWS: MILL INSTALLATIONS INCLUDING ADDITIONAL MACHINERY, POWER, MATERIALS AND LABOR, 50%; MINE DEVELOPMENT INCLUDING ADDITIONAL SHAFTS, STATIONS, DRIFT AND CROSS CUT, 30%; CAMP AND ROAD IMPROVEMENT, 5%; ADMINISTRATIVE AND LEGAL, 5%; CONTINGENCIES, 10%. THE COMPANY AS OF JANUARY 17, 1952, WAS INDEBTED IN THE TOTAL SUM OF \$3,000.00 AND IS NOT INVOLVED IN ANY LITIGATION AT PRESENT EITHER AS PLAINTIFF OR DEFENDANT.

OFFICERS AND DIRECTORS

ORLYN L. DAWSON: PRESIDENT, RESIDING AT 5237 MT. ROYAL DRIVE, LOS ANGELES 41, CALIF., A TECHNICIAN WITH I.B.M. FOR THE PAST 10 YEARS, HE HAS BEEN ENGAGED IN MINING ACTIVITIES SINCE 1927. MR. DAWSON HAS BEEN ACTIVE IN DEVELOPMENT OF MINING PROPERTIES, BUSINESS MANAGEMENT AND THE DEVELOPMENT OF ELECTRICAL AND ELECTRONIC GEOPHYSICAL EQUIPMENT AS APPLIED TO EXPLORATION AND DEVELOPMENT AND WAS ASSOCIATED IN THE LOCATION AND DEVELOPMENT OF THE GOLD BASIN PLACER FIELD, THE KING TUT PLACER FIELD AND THE CLIMAX GROUP OF LOAD CLAIMS AND OPERATED THE BADGER HILL MINE IN NORTHERN CALIFORNIA.

WM. S. BALLARD: VICE-PRESIDENT, RESIDING AT 847 NORTH WALNUT STREET, PRESCOTT, ARIZONA, WAS WELDING SUPERINTENDENT FOR C.F. BRAUN & Co. FROM 1942 THROUGH 1945 AND THE OWNER-OPERATOR OF A WELDING MACHINE SHOP UNTIL MARCH OF 1949. SINCE

THE LATTER. HE HAS BEEN ENGAGED IN MINING IN ARIZONA. GENERAL MANAGER OF THE MINING Co. Mr. BALLARD WAS FORMERLY EMPLOYED BY THE NEVADA CONSOLIDATED COPPER Co. AND THE CLIMAX MINING Co.

JOS. F. WALTON, SECRETARY & TREASURER, OFFICING AT 507 TITLE & TRUST BLDG., PHOENIX, ARIZONA. Mr. WALTON HAS BEEN A PARTNER IN THE FIRM OF WALTON & WALTON, ATTORNEYS, SINCE HIS ADMISSION TO THE PRACTICE OF LAW IN SEPTEMBER, 1947, HAVING SERVED WITH THE ARMED FORCES FROM MAY, 1943 THROUGH FEBRUARY OF 1946.

L. LEE BOYER: DIRECTOR, 926 EAST 13TH STREET, TEMPE, ARIZONA. Mr. BOYER HAS BROAD EXPERIENCE IN MINE MANAGEMENT AND IS A REGISTERED ASSAYER, HAVING FOUNDED THE SUPERIOR ASSAY OFFICE MORE THAN 20 YEARS AGO FOR CUSTOM ASSAYING IN THE SUPERIOR MINING DISTRICT. Mr. BOYER HAS BEEN ENGAGED IN THAT BRANCH OF HIS PROFESSION TO DATE BEING PRESENTLY THE OWNER-OPERATOR OF THE VALLEY ASSAY OFFICE IN TEMPE. Mr. BOYER WAS CONSULTING ENGINEER FOR THE VAN DYKE-RAYMURT MINE AND ASSAYER FOR THE QUEEN CREEK COPPER Co., THEN MANAGED BY W.M. GORHING WHO LATER BECAME HEAD OF THE R.F.C. Mr. BOYER HAS HAD WIDE EXPERIENCE IN ALL PHASES OF MINING OPERATIONS HAVING OPERATED THE SUPERIOR ORE BUYING Co. FOR THE PURPOSE OF SAMPLING, ASSAYING, CLASSIFYING AND SHIPPING SMALL LOTS OF ORE, HAVING DISCOVERED AND DEVELOPED THE POPPING PROCESS FOR PERLITE AND CONSTRUCTING THE FIRST PILOT PLANT FOR SUCH PROCESS, HAVING WORKED OUT THE FLOW SHEETS FOR THE FIRST FLOTATION MILL AT THE SILVER BELL-MARTINEZ MINE, HAVING BEEN THE ASSISTANT PURCHASING AGENT OF METAL RESERVES DIVISION OF THE R.F.C. AND MILLED SOME 12,000 TONS OF TUNGSTEN ORE.

PAT GORHAM: DIRECTOR, RESIDING AT BOX 894, SUPERIOR, ARIZONA, WAS ACTIVE IN THE ACQUISITION AND DEVELOPMENT OF PROPERTIES IN THE MINERAL MOUNTAIN AREA AND HAS BEEN EMPLOYED BY THE MAGMA COPPER Co. AT SUPERIOR, ARIZONA FOR THE PAST 10 YEARS.

CARL C. WATERBURY: DIRECTOR, P. O. Box 1, APACHE JUNCTION, ARIZONA. MR. WATERBURY HAS FOR MANY YEARS BEEN ENGAGED IN PHARMACEUTICAL AND SURGICAL SUPPLY AND SINCE HIS SEMI-RETIREMENT HAS ENGAGED IN PLACER MINING IN THE STATE OF NEVADA. HE IS PRESENTLY VICE-PRESIDENT OF THE GOLDFIELD MINING Co. OF ARIZONA.

WM. A. PAYNE: DIRECTOR, RESIDING AT 1028 NORTH 46TH STREET, PHOENIX, ARIZONA, HAS HAD 25 YEARS OF EXPERIENCE IN THE MAINTAINANCE OF INDUSTRIAL EQUIPMENT HAVING BEEN A MACHINIST FOR THE CITY OF PHOENIX FROM 1941-49, AND MORE RECENTLY ENGAGED IN MINING ACTIVITIES IN ARIZONA.

ALBERT J. HENRY: MILL SUPERINTENDENT, MR. HENRY HAS HAD 34 YEARS EXPERIENCE IN MINING OPERATIONS AND THE INSTALLATION, MAINTAINANCE AND OPERATION OF MINING AND MILLING EQUIPMENT. MR. HENRY HAS BEEN EMPLOYED AS FOREMAN AND SUPERINTENDENT FOR ASARCO Co., NEW CORNELIA COPPER Co., NEVADA CONSOLIDATED Co., CALUMET N.M. MINING Co., WESTERN KAPPEN Co., AND WESTERN FLEURSPAR COMPANY.

IDENTIFICATION OF PROPERTIES

THE FOLLOWING ARE THE PROPERTIES OF THE COMPANY AS FOUND OF RECORD IN THE BOOK OF MINES OF THE FINAL COUNTY RECORDER'S OFFICE AT FLORENCE, ARIZONA.

'HALL CORHAM' GROUP. THE PATENTED WOODPECKER,

BOOK 27, PAGE 120; THE OPHIR, SILVER PICK, FAIRVIEW, JUMB... THE BELL AS FOUND ... 40, PAGES 154 THROUGH 156; THE GOLD COIN IN BOOK 6, PAGE 62 AND THE OLD BADGER, BOOK 567, PAGE 390.

'ORPHAN BOY' GROUP. COMPOSED OF THE SILVER QUEENS NUMBERS 1 THROUGH 4 AS FOUND IN BOOK 54, PAGES 407 THROUGH 410.

GEOLOGY AND MINERALIZATION

THE FOLLOWING IS AN EXCERPT FROM THE REPORT OF TRAVIS P. LANE, A REGISTERED MINING ENGINEER; (THE COMPLETE REPORTS OF MR. LANE AND THAT OF MR. L. LEE BOYER ARE ON FILE FOR INSPECTION AT THE OFFICES OF THE COMPANY AND THE ARIZONA CORPORATION COMMISSION).

"THE COUNTY ROCK OF THE REGION IN WHICH IS LOCATED THE WOODPECKER CLAIM AND THE SURROUNDING HALL-GORHAM GROUP OF CLAIMS IS A MICACEOUS SCHIST..."

"THE SHEAR ZONES OR "VEINS" RANGE FROM SEVERAL FEET TO THIRTY FEET IN WIDTH AND ARE READILY TRACEABLE ON THE SURFACE BECAUSE OF THEIR REEF-LIKE CROPPINGS WHICH OFTEN RISE MANY FEET ABOVE THE SURFACE..."

"THE VEINS ALL CARRY AN APPRECIABLE AMOUNT OF SILVER IN THE FORM OF CERARGERITE AND PROBABLY SOME ARGENTITE, AND LEAD IN THE FORM OF CERRUSITE, ANGESITE AND GALENA. SOME ZINC AS SPHALERITE IS PRESENT ALSO. PORTIONS OF THE VEINS WHICH CARRY A SUBSTANTIAL AMOUNT OF SILVER ARE MORE SILICIOUS THAN THOSE PARTS WHICH ARE HIGHER IN LEAD CONTENT AND WHERE CALCITE, GENERALLY MANGANESE STAINED, IS THE PRINCIPAL GANGUE MINERAL. LEACHING AND OXIDIZED MINERALIZATION IS EVIDENT ON THE SURFACE IN ALL

THE VEINS...

"A SMALL AMOUNT OF DEVELOPMENT ON THE ORPHAN BOY GROUP DISCLOSES AT ONE PLACE TWO CLOSELY PARALLEL SHEAR ZONES IN RHYOLITE. THE VEINS ARE SEPARATED BY A SMALL INTRUSIVE MASS OF MONZONITE AND THE MINERALIZATION IS SIMILAR TO THAT OF THE HALL-GORHAM GROUP EXCEPT THAT THERE IS LESS MANGANESE AND AN APPRECIABLE AMOUNT OF ZINC IS PRESENT IN THE FORM OF SPHALERITE OF THE "ROBIN JACK" TYPE..."

MINING

"THE GROUND IS FIRM AND WILL NOT REQUIRE TIMBER FOR SUPPORT. THE VEINS SHOW GOOD CONTINUITY OF VALUES AND GOOD STOPPING WIDTHS WITH DIPS STEEP ENOUGH FOR GRAVITY FLOW OF ORE. THE LOGICAL MINING METHOD WILL BE SHRINK STOPING. THESE FACTORS ALL FAVOR A LOW MINING COST WHICH HERE OUGHT NOT TO EXCEED \$6.00 PER TON INCLUDING AN ADEQUATE SCALE OF DEVELOPMENT AHEAD OF ORE EXTRACTION."

MILLING

"MILL TESTS ON THE ORE HERE SHOW A RECOVERY OF 83.7% OF THE SILVER AND 93.4% OF THE LEAD BY GRAVITY CONCENTRATION ON COARSELY GROUND MATERIAL..."

INDICATED PROFIT

ALLOWING 15% FOR DELUSION THE NET VALUE OF ORES AT THE MINE WILL BE \$21.50 PER TON. ON A DRY CONCENTRATION RECOVERY OF SLIGHTLY LESS THAN 90% THE VALUE RECOVERED PER TON OF RAW ORE WILL BE APPROXIMATELY \$19.00. THE MANAGEMENT PRESENTLY ESTIMATES MINING, MILLING, SHIPPING AND SMELTER

COSTS AT \$1.00 PER TON (INCLUDING AN
\$1.00 PER TON ALLOWANCE ABOVE ALL ACTUAL ESTI-
MATED COSTS) LEAVING THE EXPECTED NET PROFIT,
BEFORE TAXES, AT \$9.00 PER TON OR \$450.00 PER
DAY FOR A 50 TON OPERATION.

WATER SUPPLY

WATER IS PUMPED TO STORAGE AT THE RATE OF AP-
PROXIMATELY 3 GALLONS PER MINUTE FROM AN EX-
ISTING WELL AND IS PIPED TO THE KITCHEN,
SHOWER HOUSE AND OTHER PARTS OF THE PROPERTIES.
IN VIEW OF THE DRY CONCENTRATING PROCESS TO BE
USED, THE DEVELOPMENT OF OTHER AVAILABLE WATER
SUPPLY IS NOT CONTEMPLATED.

POWER

DIESEL AND BUTANE POWER IS IN USE AT THE PRE-
SENT TIME. THE MINE IS EQUIPPED WITH A 10 KW
GENERATOR FOR LIGHTING PURPOSES AND OTHER USES.
ELECTRICITY FOR POWER PURPOSES MAY BE BROUGHT
TO THE PROPERTY AS REQUIRED.

EQUIPMENT

- 1 30 H.P. HOIST
- 1 INGERSOL-RAND JACKHAMMER
- 1 INGERSOL-RAND STOPER
- 1 10 KW LIGHT PLANT
- 1 DRILLING ASSEMBLY, COMPLETE
- 1 LEROY COMPRESSOR
- 1 9 X 16 TELESMTIH CRUSHER
- 1 75 H.P.-M.I. GAS ENGINE
- 1 SET MACFARLAND ROLLS
- 1 DENVER-DILLION VIBRATING SCREEN
- 1 400 GALLON GAS RESERVOIR
- 1 TD9 SKIP LOADER AND DOZER
- 1 DEMING TWO STAGE PUMP WITH ENGINE

IN ADDITION TO THE ABOVE THERE ARE A MINE CAR,
SKIP AND BUCKET, CONVEYOR BELTS, POWER TAKE-
OFFS, 500' OF HOIST CABLE, A COMPLETE BLACK-
SMITH SHOP, HAND TOOLS AND COMPLETE ASSAY EQUIP-
MENT, AS WELL AS STOCKS OF RAIL, AIR PIPE AND
HOSE, BITS, ETC. A HEAD FRAME IS INSTALLED AND
THE BUNK, COOK AND SHOWER HOUSES ARE EQUIPED.

FINANCIAL REPORT

BALANCE SHEET
MINERAL MOUNTAIN MINING & MILLING Co.
MARCH 30, 1952

ASSETS

| | |
|-------------------------|---------------------|
| BANK | \$ 1,133.34 |
| MACHINERY AND EQUIPMENT | 14,939.87 |
| MINING PROPERTY | 119,853.00 |
| MINE DEVELOPMENT COSTS | 42,612.85 |
| | <u>\$178,539.06</u> |

LIABILITIES

| | |
|-----------------------|---------------------|
| LOAN ADVANCE PAYABLE* | \$ 7,700.00 |
| RESERVES | 10,886.06 |
| CAPITAL STOCK ISSUED | 159,953.00 |
| | <u>\$178,539.06</u> |

DAKIN AND COMPANY
/S/ BARTON B. DAKIN

*PAYABLE, AT COMPANIES OPTION, IN STOCK UPON
ISSUE OF PERMIT OR CASH ON OR BEFORE JANUARY
18, 1953.

PRINCIPAL STOCKHOLDINGS

THE FOLLOWING ARE THE OWNERS OF 10% OR MORE OF THE 159,953 SHARES ISSUED BY THE COMPANY:

| | |
|----------------|---------|
| L. LEE BOYER | 18,878 |
| VICTOR E. LAMB | 20,000 |
| JOS. F. WALTON | 48,097* |

*(HELD AS TRUSTEE FOR DISTRIBUTION TO O. L. DAWSON, WM. S. BALLARD, WM. A. PAYNE AND OTHERS TO BE DESIGNATED.)

SUMMARY

AS THE CONTENT OF THIS PROSPECTUS IS LIMITED AND THE MATERIAL IS PRESENTED IN A CONSERVATIVE TREND RATHER THAN THE EXTREME THE OFFICERS AND DIRECTORS OF THE COMPANY EXTEND A CORDIAL INVITATION TO INVESTORS TO MAKE A PERSON INVESTIGATION OF THE PROPERTIES AND OF THE ENGINEERING REPORTS. WE SINCERELY BELIEVE THAT "SEEING IS BELIEVING" AND WILL EXTEND EVERY COURTESY AND ASSISTANCE SO THAT YOU MAY SEE THE TANGIBLE EVIDENCE OF THE EXCEPTIONAL OPPORTUNITIES PRESENTED.

THIS PROSPECTUS IS ISSUED ON THE 15TH DAY OF MAY, 1952, BY THE MINERAL MOUNTAIN MINING & MILLING Co.

RESPECTFULLY SUBMITTED,

ORLYN L. DAWSON;
PRESIDENT.

Amel County

1952

*Form
Application*

M I N E R A L M O U N T A I N M I N I N G

&

M I L L I N G C O .

* * * *

P R O S P E C T U S

* * * *

M I N E R A L M O U N T A I N M I N I N G

&

M I L L I N G C O .

P R O S P E C T U S

THE OFFER

THE COMPANY IS OFFERING FOR SALE TO THE PUBLIC IN ARIZONA AND IN SUCH OTHER PLACES AS IT MAY HEREAFTER BECOME LEGALLY AUTHORIZED AND QUALIFIED TO MAKE THIS OFFER, 100,000 SHARES OF ITS COMMON CAPITAL STOCK (FULLY-PAID AND NON-ASSESSABLE), AT A SELLING PRICE OF \$1.00 PER SHARE. THE COMPANY HAS AN AUTHORIZED CAPITAL OF \$500,000.00 DIVIDED INTO 500,000 SHARES OF NO PAR VALUE. THE OFFER IS BEING MADE FOR THE BENEFIT OF THE COMPANY, AS ISSUER.

AS ALL SALESMEN OF THE STOCK HAVE AGREED TO TAKE THEIR COMMISSIONS IN STOCK IN THE AMOUNT OF 15% OF THE STOCK SOLD PLUS NOT OVER 5% FOR EXPENSES, A STATEMENT OF THE OFFER IS AS FOLLOWS:

| <u>PRICE TO PUBLIC</u> | <u>UNDERWRITING COMMISSIONS</u> | <u>EXPENSE OF ADVERTISING & SOLICITATION</u> |
|--------------------------------------|-------------------------------------|--|
| PER SHARE \$1.00 | .15 | .05 |
| TOTAL ^{85,000} \$100,000.00 | ^{12,750} \$15,000.00 | ^{4,250} \$5,000.00 |

PROCEEDS TO COMPANY

| | |
|-----------|----------------------------------|
| PER SHARE | ^{.95} .80 |
| TOTAL | ^{750,00} \$80,000.00 |

WITH THE CONSENT OF THE ARIZONA CORPORATION COMMISSION AND BY PERMISSION GRANTED IN 1948-49-51, THE COMPANY HAS ISSUED STOCK TO THE ORIGINAL INCORPORATORS FOR PROPERTIES AND SERVICES, EXCHANGED 46,000 SHARES FOR ADDITIONAL MINING PROPERTIES AND SOLD 39,100 SHARES.

1952

APPROXIMATELY 100 TONS OF ORE HAVE BEEN SHIPPED FROM THE JUMBO, BADGER AND SILVER PICK. THIS ORE ASSAYED APPROXIMATELY 16 OUNCES OF SILVER AND 3.5% LEAD PER TON BEING SENT TO COPPER SMELTERS AS SILVER ORE. ON THREE SHIPMENTS SENT TO A LEAD SMELTER THE ORE AVERAGED 7.7 OUNCES OF SILVER AND 11.9% LEAD PER TON. TESTS OF THE ORE RUN FOR A DRY CRUSHING, SCREENING AND CONCENTRATING RECOVERY HAVE SHOWN THIS METHOD TO BE HIGHLY PRACTICAL FOR THE RECOVERY OF BOTH THE LEAD AND SILVER AND SUCH PROCESS REDUCES APPROXIMATELY 7 TONS OF MINED ORE TO 1 TON OF CONCENTRATE FOR SHIPPING PURPOSES WITH LITTLE LOSS OF VALUES. THE COMPANY IS NOW IN THE PROCESS OF INSTALLING A DRY CONCENTRATING PLANT OF THIS CHARACTER RATED AT 100 TONS CAPACITY PER 24 HOURS AND PLANS TO CONCENTRATE ORE AT THE RATE OF 50 TONS PER 24 HOUR PERIOD IN THE INITIAL STAGES. THE PRESENT OFFERING OF STOCK IS FOR THE PURPOSE OF SECURING THE NECESSARY FUNDS TO COMPLETE THE MILLING INSTALLATIONS AND DEVELOPMENT INCLUDING CAMP FACILITIES, ADDITIONAL ROAD WORK AND ACTUAL PREPARATION OF SHAFTS FOR THE REMOVAL OF ORE.

THE DEVELOPMENT OF THE PROPERTY HAS DISCLOSED EXTENSIVE ORE BODIES CONSERVATIVELY ESTIMATED AT THE TIME THE DEVELOPMENT WORK WAS COMPLETED AT 94,000 TONS OF REASONABLY ASSURED ORE. EXTENSIVE SAMPLING SHOWS AN AVERAGE VALUE OF \$25.18 PER TON AND ORE STOCK PILED AND READY FOR MILLING IS ESTIMATED AT 1200 TONS.

PURPOSE AND DISTRIBUTION OF PROCEEDS OF SALE

STOCK OF THE COMPANY WILL BE SOLD ONLY BY THE COMPANY THROUGH ITS DIRECTORS ALL OF WHOM WILL TAKE FOR THEIR SERVICES A COMMISSION ONLY IN STOCK AND AMOUNTING TO 15% OF THE STOCK SOLD.

1952
THE LATTER DATE HE HAS BEEN ENGAGED IN MINING
IN ARIZONA AS GENERAL MANAGER OF THE J. MINING
Co. MR. BALLARD WAS FORMERLY EMPLOYED BY THE
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(THE COMPLETE REPORTS OF MR. LANE AND THAT OF
MR. L. LEE BOYER ARE ON FILE FOR INSPECTION AT
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BEFORE TAXES, AT \$9.00 PER TON OR \$450.00 PER
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SENT TIME. THE MINE IS EQUIPPED WITH A 10 KW
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*(HELD AS TRUSTEE FOR DISTRIBUTION TO O. L. DAWSON, WM. S. BALLARD, WM. A. PAYNE AND OTHERS TO BE DESIGNATED.)

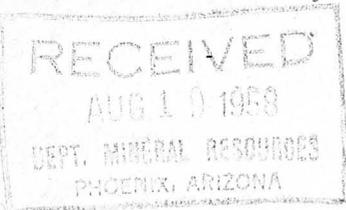
SUMMARY

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THIS PROSPECTUS IS ISSUED ON THE 15TH DAY OF MAY, 1952, BY THE MINERAL MOUNTAIN MINING & MILLING Co.

RESPECTFULLY SUBMITTED,

ORLYN L. DAWSON;
PRESIDENT.



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

August 15, 1958

~~(Mr. Boyer - We understand you know about this mine.)~~

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

Woodpecker Mine (Pinal County) silver, lead, gold, copper
(Property) (ore)
(owner S.W. Fordyce)

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

*Mr. Frank Knight
my father, Billy Graham, (W.J. Graham)
Passed on in 1943
Willha Ann Graham (his daughter)*

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Mineral Butte Mill and Consolidated
Properties

Date 3-2-62

District Mineral Hill District, Pinal Co.

Engineer Lewis A. Smith

Subject: Interview with Lee Boyer, assayer & chemist, 1010 Lemon St., Tempe (WO 7-3445)

Owners or Optioners: J. Wesley Wingfield, Independent Machinery Co. 1265 E. Cambridge,
Phoenix (BR 5-5392).
Vernon Owens (AM 6-2194) (also Independent Machinery Co.).

Properties: Optioned under a cooperative agreement or bought properties include the
Woodpecker Group, Silver Bell-Martinez, Orphan Boy and the Ajax 1, Ajax 2 and Ravin.
(patented Ajax claims bordering the Woodpecker group).

Location: S. 35-36, T. 2 S., R. 11 E., S. 6, T. 3 S., R. 12 E.

Work: Present work consists of the erection of a mill and dams for water impaction
across the deep canyon through the Ajax claims.

Mill: According to Boyer the mill consists of an 18 x 24 inch Dynamic crushing machine,
6 Deister tables, a sink and float machine, and Gardner Denver flotation cells plus
screens, etc. The initial mill capacity will be 150 TPD but will be increased up to
500 tons if the ore is available and if water also is obtainable. The 150 TPD rate
will use 65 gallons per minute water, and will require 50 gallons per minute of fresh
water. The sink and float will use octo-tetra bromide instead of ferro-silicon which
is more expensive and mostly is obtained from W. Germany. The octo-tetra bromide has
a specific gravity of 2.9 whereas the ferro-silicon ranges from 3-3.5. Power is
furnished by a 115 KW diesel operated generator. At present lead ore will princi-
pally be treated.

Mining: As now set up the mining will to a considerable extent be done by lessees.
Each lessee will have to accumulate 300 tons of ore of \$10 or more in grade or
two days mill run. The lessee will be paid by a sliding scale on grade and character
of the concentrates produced by the mill. Some of the ore will be obtained from a
90 foot shaft on the Ajax No. 1 claim. While at first, much near surface lead-silver
ore will be treated, as deeper ore is used zinc and copper may be separated. The
ore in the shaft has been sampled and run by Boyer who reports that the vein is 29
feet wide and carries 4 per cent lead and 9 per cent zinc, with small amounts of
copper and gold and silver, the latter being mainly with the lead. The country
rock is schist. The separation of this lead probably will largely be done by tables
depending upon extraction results. Should this not be satisfactory, selective flotation
or sink and float or both, may be necessary. It is not yet known when operation will
start.

Some properties (Woodpecker and Orphan Boy) were owned by Mineral Mountain Mining Co.,
in which Lee Boyer is one of the principals.

Recent metallurgical tests were run by George Roseveare, Arizona Bureau of Mines
and Colorado Equipment Co., of Denver. Lee Boyer did much test work also.

FIELD ENGINEERS REPORT

Gorham and Hall Group

Geology & Mineralization (Continued from page 1)

The vein structure is of the ribbon or 'fahlband' type, consisting of alternate ribbons or bands of coarsely crystalline calcite and quartz lying parallel with the vein walls. These layers are usually separated by a narrow space which in some cases is partially filled with a light and powdery manganiferous dust. Considerable amethyst quartz is visible in certain of the layers.

The main ore minerals are cerargyrite, cerussite and galena. Minor amounts of the copper carbonates are present in a few of the veins, and gold values are present, although in the large veins they are too low to merit consideration. All of the veins show evidence of extensive leaching, due in large part to their banded structural character. The horn silver, upon which the present operator relies entirely for his returns, occurs both in the quartz and the calcite, and it is possible to mine either a high-lime or a high-silica ore, depending upon which is in the greater demand at the smelters. Lead values are not recoverable without milling.

Mr. Perkins, the present operator, states that his shipments of gob and dump material have run from 12 to 16 ounces in silver, while mined ore has run better than 50 ounces. He has smelter settlement sheets on all the ore which he has shipped. These can be seen by anyone who is interested.

Road Conditions,

The cost of trucking ore to the Magma smelter at Superior is at the present time \$2.50 per ton. Improvements now contemplated by the county supervisors would reduce this cost to \$2.00 or less.

Remarks:

See also Field Engineers report on Woodpecker Claim. This patented claim in the center of the group should be included in any consideration of the Gorham & Hall claims.



Newton Wolcott, Field Engineer.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

MW-25

Date February 24, 1940.

Mine Woodpecker Mine Engineer Newton Wolcott
District - Mineral Mountain Mining Dist. Location - Approximately 7 miles
SW from Superior. (Pinal
County) Sec. 35, T2S, R 11 E;
Former Name G & SR B & M
Owner - S. W. Fordyce Address - Not known
Owner's representative - W. J. Graham Address - Capitol Building,
Phoenix, Arizona
Operator - E. N. Perkins Address - Superior, Arizona
President Gen. Mgr.
Mine Supt. Mill Supt.
Principal Metals - Silver, Lead, Gold, Men Employed
Copper
Production Rate - Not established Mill: Type & Cap.
Power: Amt. & Type
Operations: Present -- Not active at present.

Operations Planned - Plan to operate in conjunction with Gorham & Hall property
which surrounds this claim on all sides.

Number Claims, Title, etc. - One patented lode claim. (Area slightly less
than 20 acres)

Description: Topography & Geography - This property is situated in the region of
semi-mountainous country which lies between Superior and the Gila river. The
hills are steep and fairly high, and the canyons narrow and deep. Vegetation
consists almost entirely of a heavy growth of cholla cactus and other desert
growth. Elevation at the property varies from 2500 to 3000 ft. above sea
level.

Mine Workings: Amt. & Condition - 1 vertical shaft approximately 75 ft. in depth;
open and accessible. 2 inclined shafts 100 ft. plus in depth; inaccessible
without repairs. 1 inclined shaft approximately 70 ft. deep; open but
untimbered. 1 inclined shaft approximately 50 ft. deep; upper portion
accessible. Several hundred feet of tunnels and drifts, and two large open-
cuts. Various shallow pits and surface cuts.

Geology & Mineralization - The entire property lies within the large area of sericite mica schist which covers most of this mining district. The schist is cut in numerous places by a series of large and highly mineralized shear zones which traverse the country in a NW-SE direction. The majority of the shear zones have a variable dip to the SW, the dip varying from 35 deg. to almost vertical. The structure here is identical with that found at the Reymert mine, and this is undoubtedly a continuation of the same general vein system. The veins formed along these shear zones vary in width from three to more than 30 ft. and the walls are strong and well defined. The vein structure is of the ribbon or "fahlband" type, consisting of alternate ribbons or bands of coarsely crystalline calcite and quartz lying parallel with the vein walls. These layers are usually separated by a narrow space which in some cases is partially filled with a light and powdery manganiferous dust. Considerable amethyst quartz is visible in certain of the layers. The main ore minerals are cerargyrite, cerussite and galena. Minor amounts of the copper carbonates are present in a few of the veins, and gold values are present, although in the large veins they are too low to merit consideration. All of the veins show evidence of extensive leaching, due in large part to their banded structural character. The horn silver, upon which the present operator relies entirely for his returns, occurs both in the quartz and the calcite, and it is possible to mine either a high-lime or a high-silica ore, depending upon which is in the greater demand at the smelters. Lead values are not recoverable without milling, Mr. Perkins, the present operator states that his shipments of gob and dump material have run from 12 to 16 ounces in silver, while mined ore has run better than 50 ounces. He has smelter settlement sheets on all the ore which he has shipped. These can be seen by anyone who is interested.

Ore: Positive & Probable, Ore Dumps, Tailings

Mine, Mill Equipment & Flow Sheet - No equipment of any sort.

Road Conditions, Route - Take U. S. Highway 70 west from Superior for a distance of 11 miles to old Jumbo Lead Co. camp. Road goes over hill from there approximately 1 mile to property. Fairly good bladed road to Jumbo camp. Road from there to property is steep and rough in places, but passable. Ore is being trucked out at present. Best to inquire of Pat Gorham in Superior as to route to property.

Water Supply

Brief History

Special Problems, Reports Filed -

Remarks - This claim is entirely surrounded by the five unpatented claims of the Gorham & Hall Group, and should naturally be considered and included in any operation of the latter. The Woodpecker covers several good veins which extend into the adjoining claims. All descriptions of the surrounding property apply equally well to this claim. The same operator, Mr. E. N. Perkins of Superior has both properties under lease and option.

If property for sale; Price, terms and address to negotiate - The property is open for sale on reasonable terms to responsible parties.

SIGNED - Newton Wolcott

No. 234 De

Sell on Hall + Gorham

Phoenix, Arizona,
May 17, 1947.

CHAS. A. DIEHL

ARIZONA ASSAY OFFICE

Mail: P. O. Box 1148

815 North First Street

Phone 3-4001

DEPARTMENT OF MINERAL RESOURCES

THIS CERTIFIES That samples submitted for assay by

contain as follows per ton of 2000 lbs. Avoir.

| GORHAM & HALL MARKS | SILVER | | VALUE | GOLD | | VALUE | TOTAL VALUE Of Gold & Silver | PERCENTAGE | | | | REMARKS |
|------------------------|--------|--------|--------|--------|--------|---------|---------------------------------|------------|--|--|--|---------|
| | Ounces | Tenths | 90 3/4 | Ounces | Hndths | \$33.00 | | | | | | |
| Dump at road cut | 8.7 | | \$7.87 | .01 | | \$.35 | \$8.22 | | | | | |
| Shaft dump | 3.8 | | \$3.43 | .02 | | \$.70 | \$4.13 | | | | | |
| Black dump | 2.4 | | \$2.17 | .01 | | \$.35 | \$2.52 | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

Charges \$ 3.75

Assayer ARIZONA ASSAY OFFICE
[Signature]

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA

FIELD ENGINEERS REPORT

Date July 23, 1940.

Mine Gorham and Hall Group

Engineer Newton Wolcott

District Mineral Mountain Mining District

Location Approximately 7 miles SW from Superior. (Pinal County)

Former name

Secs. 34 & 35, T2S, R11E; G & SR B&M

Owner Pat Gorham

Address Superior, Arizona.

Operator E. N. Perkins

Address " "

President

Gen. Mgr.

Mine Supt.

Mill Supt.

Principal Metals Silver, lead, gold, copper.

Men Employed 3

Production Rate Approximately 50 tons per week.

Mill: Type & Cap.

Power: Amt. & Type

Operations: Present

Cleaning out old stopes and shaft. Also mining some ore and shipping it along with gob and dump material.

Operations Planned

Trying to get to bottom of old workings and put property into shape for steady production.

Number Claims, Title, etc.

Five unpatented lode claims.

Description: Topog. & Geog.

This property is situated in the region of semi-mountainous country which lies between Superior and the Gila River. The hills are steep and fairly high, and the canyons narrow and deep. Vegetation consists almost entirely of a heavy growth of cholla cactus and other desert growth. Elevation at the property varies from 2500 to 3000 feet above sea level.

Mine Workings: Amt. & Condition

- 1 Vertical shaft approximately 75 feet in depth. Open & accessible.
 - 2 Inclined shafts 100 feet plus in depth. Inaccessible without repairs.
 - 1 " " approximately 70 feet deep. Open but untimbered.
 - 1 " " " 50 " ". Upper portion accessible.
- Several hundred feet of tunnels and drifts, and two large open cuts. Various shallow pits and surface cuts.

The entire property lies within the large area of sericite mica schist which covers most of this mining district. The schist is cut in numerous places by a series of large and highly mineralized shear zones which traverse the country in a NW-SE direction. The majority of the shear zones have a variable dip to the SW, the dip varying from 35 degrees to almost vertical. The structure here is identical with that found at the Reymert Mine, and this is undoubtedly a continuation of the same general vein system. The veins formed along these shear zones vary in width from three to more than thirty feet, and the walls are strong and well defined.

(See appended sheet for further description.)
Ore: Positive & Probable, Ore Dumps, Tailings

Ore of shipping grade is in sight in various places on the property; but no estimate of tonnage is possible without additional systematic development work. There is also a considerable tonnage of material on several dumps; but it is doubtful that this is sufficiently high in grade to permit shipping without careful sorting.

Mine, Mill Equipment & Flow Sheet

There is no equipment of any sort other than makeshift hoisting apparatus on the property.

Road Conditions, Route Take U.S. Highway 70 west from Superior for a distance of ten miles. Turn left through cattleguard there and follow main road for a distance of 11 miles to old Jumbo Lead Co. camp. Road goes over hill from there approximately 1 mile to property. Fairly good bladed road to Jumbo camp. Road from there to property is steep and rough in places; but passable. Ore is being trucked out at present. Best to inquire of Pat Gorham in Superior as to route to property.
Water Supply

Domestic water is available all the year at the Jumbo camp, and workings on several adjacent properties indicate that water in comparatively large quantity will be encountered on this property at a depth of between 200 and 500 feet.

Brief History The property has not been worked in a sizeable way since the nineties; at which time some of the richer ores were mined and smelted on the ground. There has been no road of any sort nearer than seven miles from the property prior to about 1933, and any ore mined had to be packed out on burros for that distance. The present operator, without any working capital whatever, has been making a living here simply by shipping the old dumps and stope gob to the smelters at Superior and Hayden.
Special Problems, Reports Filed

Working capital sufficient to install hoist and compressor, establish a camp for workmen, and to re-timber and put in shape the old workings is what this property needs most of all.

Remarks In view of the size, strength and continuity of the veins in this area, and the chance of encountering valuable enrichments at or near the water level, the property appears to be well worth serious consideration and thorough investigation by anyone with sufficient capital to carry out the work mentioned above, and to do a reasonable amount of development work in addition.

If property for sale: Price, terms and address to negotiate.
Mr. E.N. Perkins, Superior, Arizona, who has the property under lease and option, and also Mr. Pat Gorham of Superior, one of the owners, state that the property is open for a deal on reasonable price and terms to any responsible parties.

Signed Walter Wolcott
Use additional sheets if necessary. Separate sheets on each problem.

AMERICAN SMELTING AND REFINING COMPANY

EL PASO SMELTING WORKS

BOUGHT OF Mineral Mtn. Mfg. & Mill. Co.
 ADDRESS P. O. Box 1026 Florence Jct., Arizona
 SHIPPING POINT Price, Arizona
 NAME OF MINE Woodpecker

EL PASO, TEXAS, 1-20 1953
 SMELTER LOT 55
 SHIPPERS LOT _____
 CLASSIFICATION Ore

RATES, EXCEPT ON CONTRACTS, SUBJECT TO CHANGE WITHOUT NOTICE

| MIX | ARRIVAL DATE | CAR | | GROSS WEIGHT | CONTAINERS | | WET WEIGHT | % H ₂ O | DRY WEIGHT | QUOTATIONS |
|-----|--------------|--------|----|--------------|------------|--------|------------|--------------------|------------|--|
| | | NUMBER | RR | | NO. | WEIGHT | | | | |
| | 1/6 | 151137 | SP | | | | 92180 | 2.0 | 90336 | COINAGE SILVER <u>90.0</u> † PER OZ. FOREIGN <u>83.25</u> † PER OZ. LEAD \$ <u>14.583</u> PER CWT. COPPER † PER LB. |

B/L DATE: 1/2

| ASSAYS | OZ. PER TON | | WET LEAD % | COPPER % | INSOL % | SiO ₂ % | IRON % | MN % | LIME % | ZINC % | S % | AL ₂ O ₃ % | As % | Sb % | Bi % | % |
|-----------|-------------|--------|------------|----------|---------|--------------------|--------|------|--------|--------|-----|----------------------------------|------|------|------|---|
| | GOLD | SILVER | | | | | | | | | | | | | | |
| SMELTER | 0.005 | 5.2 | 18.5 | 0.10 | | | | | | 3.7 | | | | | | 0 |
| SHIPPER | .02 | 5.6 | 19.0 | .16 | | | | | | 3.8 | | | | | | |
| UMPIRE | | | | | | | | | | | | | | | | |
| METALLICS | | | | | | | | | | | | | | | | |
| SETTLE | | 5.4 | 18.75 | | | | | | | | | | | | | |

| VALUES PER TON | | | | | DEDUCTIONS | | | CHARGE | CREDIT | |
|---|------------|-----------------------------------|-------|-----------------|------------------------|------------------------------|-----|--------|---------|---------|
| PAYMENT | | | | FREIGHT (FIXED) | BASE, INCL. LABOR ADJ. | | | 5.50 | | |
| PAY CONTENT | PRICE | AMOUNT | | | EXCESS VALUE OVER \$ | | | | | |
| GOLD | | | | | 10 | † PER UNIT PB + - 30 % | | | 1.28 | |
| SILVER, LESS % MIN. 1.0% | 4.4 | .885 | 3.89 | 3.89 | | LEAD-COPPER PRICE ESCALATOR | | | | |
| LEAD, LESS 30#@ 90% | 310.5 | .12583 | 39.07 | 15.53 | | BULLION FREIGHT TAX @ .00035 | | | .11 | |
| COPPER, LESS @ % | | | | | | INSOL-SILICA | | | | |
| | | | | | | IRON-LIME | | | | |
| | | | | | | ZINC | | | | |
| GROSS VALUE | | | 42.96 | 19.42 | | As: | Sb: | Bi: | | |
| LESS DEDUCTIONS (NET CHARGE) | | | 6.89 | 6.89 | | NET CHARGE | | | 6.89 | |
| FREIGHT VALUE | | | X X X | 12.53 | = | 12.28 WET TON | | | | |
| NET VALUE | | | 36.07 | @ 45.168 | | DRY TONS | | | | |
| LESS FREIGHT: | 46.09 | WET TONS @ 4.60 + 15% P.T. 243.81 | | TAX 7.31 | | | | | 251.12 | |
| LESS SWITCHING | 4.62 + .14 | | | | | | | | 4.76 | |
| LESS HAULING | | | | | | | | | 7.50 | |
| LESS REPRESENTATION \$ 7.50 | UMPIRE \$ | SAMPLING \$ | | | | | | | 13.10 | |
| AMOUNT WITHHELD PENDING RECEIPT OF SILVER AFFIDAVIT | | | | | | H 5131 | | | | |
| LESS ROYALTY | | | | | | | | | | |
| BALANCE DUE SHIPPER | | | | | | | | | 1352.73 | |
| CHECKED | CORRECT | APPROVED | | | | | | | 1629.21 | 1629.21 |

Notice of Non-Liability for Labor or Materials Furnished

NOTICE IS HEREBY GIVEN to all persons that the undersigned,.....

L. Lee Boyer, 926 E. 13th, St. Tempe, Arizona.....

the owner..... of the Woodpecker, Patented mining claim, Lot no. 38.....

Also the Ophir, Silver Pick, Fairview, Junbo, Blue Bell, All.....

situated in the Mineral Hill mining district, Pinal County, State, Ariz.

mines or mining claims hereinafter described with all the improvements thereon.

That said mines or mining claims are now or shortly will be in the possession of and worked and operated by J. B. Crowley of Mesa, Arizona.....

pursuant to a Lease..... made and executed by the undersigned in favor of the said

J. B. Crowley....., dated 25 day of March, 1948

said Lease..... to be in force from the 25..... day of March....., 1948.

up to and including the 25..... day of March....., 1949.

The undersigned is not working or operating said mines or mining claims, or any part thereof and does not intend to work or operate said mines or mining claims, or any part thereof, or to purchase supplies or materials therefor during the life of said Lease..... with said J. B. Crowley of Mesa, Arizona.....; and the undersigned

will not be responsible for any debts of the said J. B. Crowley of Mesa, Arizona.....

..... operating or working said mines or mining claims under said Lease.....

The names of said mines or mining claims are: Ophir, Silver Pick, Fairview, Junbo, Blue Bell and Woodpecker. The portions of said claims described in said lease now in effect.

....., all situate, lying and being in Mineral Hill..... Mining District in Pinal..... County

in the State of Arizona, the location notices of said mines or mining claims being duly recorded in the Mining..... records in the office of the County Recorder of said Pinal.....

County, State of Arizona, as follows:

Ophir and Silver Pick..... mining claim in book 40....., at page 155.....,

Fairview and Junbo..... mining claim in book 40....., at page 156.....,

Blue Bell..... mining claim in book 40....., at page 154.....,

Woodpecker, Lot No. 38..... mining claim in book Patented....., at page.....,

to which books and pages reference is hereby made for a more particular description of said mines or mining claims.

SUBSCRIBED by L. Lee Boyer.....

this 21..... day of April....., 1948.

WITNESS:

STATE OF ARIZONA,
County of PINAL } ss.

I, SOPHIE M. SMITH, County Recorder in and for
the County and State aforesaid, do hereby certify that the within instrument was filed for rec-
ord at 3:20 o'clock P. M., on this _____ day of APR 26 1948, 19_____,
and duly recorded in Book No. 25 of Final Records of PINAL County,
Arizona, at pages 241

WITNESS my hand and official seal the day and year first above written.

SOPHIE M. SMITH
County Recorder.
By Myrtle L. Kay, Deputy

INDEXED
COMPARED

Notice of Non-Responsibility for Labor
or Materials Furnished

Mines or mining claims in _____

_____ Mining District

State of Arizona

Owned by _____

County, _____

Operated by _____

Filed and recorded _____

APR 26 1948

at 3:20 P.M. 19

Book 25 of Final Page 241

SOPHIE M. SMITH

Records

County Recorder.

Myrtle L. Kay
County Recorder.

*Return to Lee Boyer
923 E. 13th St.
Tempe
35860*

WOODPECKER MINE

PINAL COUNTY

NJN WR 9/16/83: John V. Currie, 311 N. Kingman, Chandler, AZ 85224, Phone 963-4174 (place on Phoenix Mailing List) visited the reported he has staked claims (not yet on BLM microfiche) which cover part of woodpecker Mine, Pinal County. He is considering producing flux to sell to ASARCO's smelter at Hayden.

RRB WR 2/24/84: Visited Woodpecker Mine, Sec 35, T2S R11E. Pinal County. No activity.

GRANDFATHER VEIN (WOODPECKER BLOCK)
MINERAL HILL DIST., PINAL COUNTY

~~Do Not Reproduce~~

Reports by Travis Lane, Gerald A. Russell and interview with Roy Waughtel 6/23/64.

According to these reports the Grandfather Vein trends NW, is up to 12 feet wide and dips 45 deg SW. It cuts a quartz mica schist belt and follows a transverse shear. It is developed by cuts and trenches and a 52-foot vertical shaft. At the bottom of the shaft is a short drift to the southward. A carload of ore was sorted from the shaft dump and is reported to have assayed 22 ounces in silver to the ton. 350 feet south of this shaft a cut was opened for 40 feet in length on the vein strike. Here the vein is 4-6 feet wide and yielded 3 tons of material that assayed 5.3 oz of silver to the ton, and 39 per cent lead. A carload (46 tons) also was obtained and is reported to have run 17 Oz of silver to the ton and 9.25 per cent lead. Samples, taken by Waughtel and Russell showed 5.4 to 38.0 oz of silver and 4.5 to 14 per cent lead. Waughtel estimates that actual and probable reserves are approximately 10,000 tons valued at \$29 per ton. Composited samples of the better ore ran 24.5 oz silver to the ton and 8 per cent lead. Shaft samples averaged 13.3 oz of silver to the ton and 9.7 per cent lead.

Lewis A. Smith 6/23/64 MEMO

Mr. W. A. Payne, Director, Mineral Mountain Mining and Milling Co., Inc. (Also called "4-M's") explained that a group, comprising the owners of the Woodpecker, Silver Pick, Badger, Grandfather, Jumbo, Apache, Ajax and Orphan Boy, Mineral Hill District, will hold a meeting May 28th, to determine what to do about a \$19,000 royalty deficit incurred by Roy Waughtel, et al, which group had optioned the preceding mines. It is expected that the \$19,000 will be written off. The option has been dropped by Waughtel's Group. In the process, Payne, et al, acquired the Ajax mill and this is held as collateral for certain unpaid loans against the equipment. While Payne, et al, are not involved in the latter indebtedness, they are anxious to remove the deficit stigma so as to make their properties more attractive to investors.

LAS WR 5/21/65

Mr. Jim Apolius of Desert Exploration & Mining Co. (DEMCO) was in to say he had the Woodpecker, Boyer-Bates property, and was hoping to ship the ore. Told him he should get an estimate from AS&R to make sure they could take the ore. FTJ WR 7/17/74

RRB WR 2/5/82: Visited the Woodpecker Mine, Sec. 35 and 34, T2S R11E. Found post labeled "Savage 19, S Mid End". There is evidence of recent sampling.

~~Do Not Reproduce~~

WOODPECKER MINE

See Report

PINAL COUNTY
MINERAL MTN. DIST.

Lee Boyer of the Woodpecker Mine Group, stated that tentative plans have been made to install a sink and float plant at the mine in the immediate future.

LEWIS A. SMITH - Weekly Report - 11-24-61

See: MINERAL BUTTE MILL (file) Pinal Co.

WOODPECKER MINE

Walter Nells ~~W. A. Payne~~

Mr. Walter Nells, 3228 E. Willetta St., Phoenix, and Mr. W. A. Payne, 1028 N. 46th St., Phoenix, called relative to the Woodpecker Mine, Mineral Hill Dist., Pinal County. They wanted a mine visit and this was tentatively set for July 5th. (This mine along with the Orphan Boy group have been combined into the 4'M Group).

LOUIS A. SMITH, Weekly Report - 6-23-61

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine WOODPECKER MINE Date July 5, 1961
District MINERAL MOUNTAIN DISTRICT, PINAL COUNTY Engineer Lewis A. Smith
Subject: Mine Visit with W. A. Payne and Walter Nell (7-5-61)

Property: (1) Woodpecker Group: 1 patented claim (Woodpecker) and 7 unpatented claims (see sketch).

(2) Orphan Boy Group: 4 unpatented claims (4 miles in a northerly direction from the Woodpecker).

Owners: Mineral Mountain Mining and Milling Company, Inc. *Mineral Mtn Quad*
Lester Dawson, Pres.

- * Lee Boyer, 1010 Lemon St., Tempe, Arizona, Vice-Pres.
- * Robert P. Curry, 1304 Lemon St., Tempe, Arizona, Sec'y-Treas.
- * W. A. Payne, 1028 N. 46th St., Phoenix, Arizona, Director.
- * Joe Walton, Atty., Title & Trust Bldg., Phoenix, Arizona, Director
- * Walter Nell, 3228 E. Willetta, Phoenix, Arizona, Director

Access: The county road turns south from Highway 60-70 at a point about 4 miles east of Florence Junction. From here a partly graded road is followed south and then east for 10 miles. The mine is then reached by turning left and northeast for 1 mile to the Ajax Mine and thence northwest to the Jumbo Claim, a distance of about 1 mile. The total dirt road is 12 miles all of which can be covered with a car.

Minerals: Lead, Silver, Zinc, and some Copper and Gold.

History: The history up to 1951 is covered in Travis Lane's report. Up to 1951 about 450 tons of ore were shipped to smelters, most of which was sent to copper smelters for siliceous, or "dry" flux. The average grade of the flux ore was about 3.5 percent lead, 16 ounces silver, 60 percent silica and 10.12 percent lime. The better lead-silver ore was shipped to El Paso. This averaged about 8 ounces silver, 11 percent lead with 0.05 ounces gold. Since 1951, two shipments were made:

(1) To Magma Smelter: 23 tons, averaging 11.4 ounces silver, 0.02 ounces gold, 0.31 percent copper, 54 percent silica, and 14.6 percent lime, and some lead which was not paid for.

(2) To El Paso (A.S.& R.) 45 tons, averaging 5.2 ounces silver, 0.10 ounces gold, 18.5 percent lead, and 3.7 percent zinc which was not paid for.

Since 1952 the principal activity has been confined to assessment work.

Work: Since 1952 the Grandfather shaft, on the Woodpecker vein, was deepened 40 feet, a bulldozed cut, on the Woodpecker outcrop, was made, considerable metallurgical testing and road work were finished. Prior to 1952, the work is described in Travis Lane's report.

Geology: The country rock is a quartz, Mica Schist, probably Pinal Schist, which has been intruded by scattered basic dikes, and cut by a number of faults and shears.

The accompanying sketch shows the veins, faults, and a dike(?). The dike (?) is intensely epidotized and chloritized. 1/ The schist bedding trends N. 60-70 degrees W. and dip flatly (35-45 degrees) to the southwest in the block south of the dike (?) while north of the dike it dips 55 to 60 degrees southwest and strikes more nearly north (approximately N. 45 to 50 degrees W.). This divergence is probably due to rotation caused by the dike (?) and the fault that is associated with the dike (?). There appears to be a series of transverse faults, which trend about N. 45 degrees W, and which disjuncted the vein-forming shears. The veins follow shear faults, or fracture zones, and are composed of alternate bands, or "ribbons", of quartz and calcite (which is usually manganiferous). These veins usually have two good walls which show very little gouge, except where noted (C). The lead-silver and zinc values are generally associated with the manganiferous calcite. Without much direct evidence, it is believed that the limited copper and gold values may favor the quartz, since the copper stains (rare) and pyrite limonite seems to be more common in the quartz and schist borders. Some evidence indicates that the quartz may have formed, first, then was sheared, followed by the calcite, manganese, lead, zinc, and silver. In other words there could have been two generations of mineralization. This has been found to be probable in some other districts.

It is probable that the dike (?), or alteration zone which outcrops intermittently for 2,000 feet, at least is pre-lead-silver, but post-vein shear fracturing. A two-foot sheared zone on the hanging wall of the dike (?) is mineralized in a similar fashion to the mineralization in the vein segments, both north and south of it. A fault developed on the dike (?) hanging wall. This has a strong breccia zone, and as far as could be observed, it did not carry much mineralization. It could have caused at least part of the vein off-set to the north. Further west (approximately $1\frac{1}{2}$ miles) a northerly trending dike was similarly off-set into the east as were the veins. The two dike ends align well with the strike of the fault. These off-sets amount to around 900 feet. As can be seen from the sketch map, the major veins are parallel and roughly 300 feet apart. The inferred transverse faults (N 45 to 60°W) are mineralized and are probably pre-mineral. Since detrital material covered much of the north half of the Jumbo Claim the fault between the Jumbo workings and those to the north is inferred. A straight, sharply incised gully may indicate its position. A similar gully follows the dike(?) and its associated fault to the north. It seems probable that the swing of the Woodpecker Vein, toward the west, was caused by a similar transverse fault. A strong iron oxide zone (D) widens from the bend toward the southeast and this zone shows some scattered indications of copper sulphides. The significance of this iron-oxide zone is not certain but it should be given more study. The zone was uncovered by bulldozer work for at least 200 feet.

The vein fracture zones generally strike about N.10 degrees W., with local deflections, The veins all dip to the southwest at angles ranging from 45 to 60 degrees. The inferred transverse faults, where exposed, all dip to the south or southwest. It was theorized that the Woodpecker fracture zone coalesced with a probable transverse fault and some evidence indicates that the coalesced fractures then may have, in turn, coalesced with either the Badger vein or the Silver Pick vein. The Silver Pick vein fracture zone appears to cross the coalesced zone without appreciable off-set. The area between the Silver Pick vein fracture zone and the Badger vein is torn up badly so that no definite conclusion could be reached. No evidence of the transverse fracture was seen west of the Badger vein; since that area is covered by detrital

1/ This could represent a highly altered, hard zone accompanying a fault.

material. The Woodpecker vein zone was not found north of the inferred transverse fault. The three veins are all evident for some distance south of the inferred fault line. Much more work is needed before this theory is proven, or not proven, but on the surface it seems plausible. The transverse faults are mineralized, where exposed. A few core drill holes, crosscutting the mineralized areas, would do much to establish reserves, grade, and geologic structures.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Geology & Mineralization

MW 28

Date February 24, 1940.

Mine Woodpecker

Engineer Newton Wolcott

District Mineral Mountain Mining District

Location Approximately 7 miles SW from Superior. (Pinal County)
Sec. 35, T2S, R11E; G & SR B&M

Former name

Owner S. W. Fordyce

Address Not known

Owners representative - W. J. Graham

Capitol Building, Phoenix, Ariz.

Operator E. N. Perkins

Address Superior, Arizona.

President

Gen. Mgr.

Mine Supt.

Mill Supt.

Principal Metals Silver, lead, gold, copper

Men Employed

Production Rate Not established

Mill: Type & Cap.

Power: Amt. & Type

Operations: Present

Not active at present.

Operations Planned

Plan to operate in conjunction with Gorham & Hall property which surrounds this claim on all sides.

Number Claims, Title, etc.

One patented lode claim. (Area slightly less than 20 acres)

Description: Topog. & Geog.

See report on Gorham & Hall Group.

Mine Workings: Amt. & Condition

See report on Gorham & Hall Group

(over)

Geology & Mineralization

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA

See report on Gorham & Hall Group

Date February 24, 1940

Ore: Positive & Probable, Ore Dumps, Tailings

Mine Woodpecker

Location Approximately 7 miles SW from Superior, (Final County) Sec. 33, T2S, R11E; G & SR 12M

District Mineral Mountain Mining District

Former name

Mine, Mill Equipment & Flow Sheet

Owner S. W. Fordyce

Address Capital Building, Phoenix, Ariz.

Owner's representative - W. J. Graham

No equipment of any sort.

Operator E. N. Perkins

Gen. Mgr.

President

Road Conditions, Route

Mill Subst.

Mine Subst.

See report on Gorham & Hall Group

Principal Metals Silver, Lead, Gold

Mill: Type & Cap.

Production Rate Not established

Water Supply

Power: Amt. & Type

Operations: Present

Not active assessment.

Brief History

Operations Planned

Special Problems, Reports Filed

Plan to operate in conjunction with Gorham & Hall property which surrounds this claim on all sides.

Remarks

This claim is entirely surrounded by the five unpatented claims of the Gorham & Hall Group, and should naturally be considered and included in any operation of the latter. The Woodpecker covers several good veins which extend into the adjoining claims. All descriptions of the surrounding property apply equally well to this claim. The same operator, Mr. E.N. Perkins of Superior has both properties under lease and option.

If property for sale: Price, terms and address to negotiate.

The property is open for sale on reasonable terms to responsible parties.

Mine Workings: Amt. & Condition

See report on Gorham & Hall Group

Signed *Walter Wood*

Use additional sheets if necessary. Separate sheets on each problem.

No. 234 De

Phoenix, Arizona,
May 17, 1947.

CHAS. A. DIEHL

ARIZONA ASSAY OFFICE

Mail: P. O. Box 1148

815 North First Street
DEPARTMENT OF MINERAL RESOURCES.

Phone 3-4001

THIS CERTIFIES That samples submitted for assay by

contain as follows per ton of 2000 lbs. Avair.

| CORHAM & HALL MARKS | SILVER | | VALUE | GOLD | | VALUE | TOTAL VALUE Of Gold & Silver | PERCENTAGE | | | | REMARKS |
|------------------------|--------|--------|------------------|--------|--------|------------------|---------------------------------|------------|--|--|--|---------|
| | Ounces | Tenths | 82.54 | Ounces | Hndths | 35.00 | | | | | | |
| Dump at road cut | 8.7 | | \$7.87 | .01 | | \$.35 | \$8.22 | | | | | |
| Shaft dump | 3.8 | | \$3.43 | .02 | | \$.70 | \$4.13 | | | | | |
| Black dump | 2.4 | | \$2.17 | .01 | | \$.35 | \$2.52 | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

Charges \$ 3.75

Assayer ARIZONA ASSAY OFFICE
[Signature]

J. S. COUPAL
Mining Engineer
Phoenix, Arizona

Oct. 6, 1948

Reply to
Arizona Club, Luhrs Bldg.
Phoenix, Arizona.

Mr. L. Lee Boyer,
926 East 13th St.,
Tempe, Arizona.

Dear Mr. Boyer:

Regarding the holdings of the Mineral Mountain Mining & Milling Corporation, I can make the following statements:

I have been advised that it is an Arizona corporation, and either owns or has lease on eight lode mining claims in the Mineral Mountain Mining District, about seven miles southwest of Superior, Pinal County, Arizona. The key claim is the patented Woodpecker claim. There are five unpatented claims in the Gorham Group, and two other unpatented claims, the Badger and the Gold Vein, all of which adjoin and constitute the holdings of the corporation.

The Woodpecker claim has been known for many years as a producer of high grade silver ore, and the major workings of the eight claims are on it.

I have made several trips in the area, to the Ajax Mine, which is about one mile south of the Woodpecker, and in May, 1948, made a cursory examination of the Woodpecker workings and recommended it for intensive study to a client.

The property lies at an elevation of from 2500 to 3000 feet above sea-level, in a semi-mountainous area with scant vegetation, and has a fine year-around operating climate. It is accessible by mine road, about 12 miles off U. S. Highway 80. The road to the property is rather steep in short stretches, but passable by cars and trucks.

The most prominent surficial feature is a highly silicified dyke or shear zone, striking in a N.W. - S.E. direction, from 10 to 30 feet in width. The country rock is a micaceous schist cut by numerous silicified shear zones in which mineralization has occurred. The ore zones are fahlband structure.

The major workings consist of a glory-hole, from which high grade silver ore, cerargyrite (horn silver) was shipped in the early days; a 74-foot incline shaft with drifts on ore; and at the south end of the property, a 280-foot crosscut with 80 feet of drifting on what is presumably an extension of the old Jumbo lead vein. There are numerous other shallow minor workings, which have shown good ore.

In 1948, leasers made three minor shipments from exploratory and

development work, as follows:

| | | |
|-------------------|------------|----------------|
| 46 tons | 9.25% Lead | 1.8 oz. Silver |
| 3 $\frac{1}{2}$ " | 39.00% " | 5.3 oz. " |
| 19 " | 13.64% " | 21.55oz. " |

A test made by taking a 13-ton test-sample from the workings adjoining the 74-foot inclined shaft gave the following results: 20.76 oz. Silver and an estimated 5% to 7% Lead. The lead was not determined by assay, as the ore was sold to a copper smelter. Other general samples of the various exposes are reported as showing an average of 4.9% Lead and 3.9 ounces in Silver.

I have recommended the property for careful study, and have by observation been able to check in a general way the ore showings as reported to me by the leasers in the workings and on the various outcrops.

It is impractical to estimate any tonnage of ore in sight, but the indications are favorable for developing a property capable of producing 50 tons per day within a comparatively short time.

The Hog crosscut and drift at the southern end of the property show 80 feet of lead-silver ore in the drift of from 2 to 4 feet in width, with about 160 feet of backs.

The workings from the 74-foot incline shaft show from 4 to 6 feet in width of ore which can be shipped, or preferably milled, at a profit, carrying good values in lead and silver.

There are numerous other showings which justify intensive development, and exploration. The prominent, silicified dyke has erratic showings of high-grade silver and lead on the surface and warrants exploration in depth.

The property has an excellent showing for the limited amount of development; it is located in a known mineralized area with favorable geology, and, as stated, I have recommended it highly for study, exploration, and development, to a valued client,

Respectfully submitted,

J. S. Coupal,
Registered Mining Engineer,
Phoenix, Arizona.

October 6, 1948.

(Cont.)

options the said E. V. THOMPSON and GEORGE O. FITCHPORTH do hereby agree to forfeit said interests above mentioned and deliver same back to the said L. Lee Boyer in a peaceable manner.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 1940.

(SEAL)

State of Arizona)
 (ss
County of Pinal)

The foregoing Assignment was acknowledged before me by L. Lee Boyer, this _____ day of _____ 1940.

Notary Public

My commission expires

NOTICE OF NON LIABILITY
FOR LABOR OR MATERIALS FURNISHED

NOTICE IS HEREBY GIVEN to all persons that the undersigned Pat Gorham, and Lillian H. Branaman Legal Trustee for the Henry D. Hall heirs, are the owners of a certain group of mining claims known as the Hall Group; situated in Mineral Hill, Mineral Hill Mining District, County of Pinal, State of Arizona, better known and described as:

Ophir, Silver Pick, Fairview, Jumbo, and Blue Bell

recorded in the Book of Mines No. 40, pages 154 to 156 inclusive.

The said mining claims are now in the possession and being operated by C. C. Fitchforth and E. V. Thompson and pursuant to a lease agreement made and executed by the undersigned carrying the date of September 22, A.D., 1939. Said lease made and executed by and between E. H. Perkins and L. Lee Boyer, known as the parties of the first part and the above mentioned owners of the Hall Group, known as the parties of the second part, WHEREAS notice is hereby given that the said Pat Gorham, Lillian H. Branaman and (L. Lee Boyer, as associated with the above mentioned owners) shall not be responsible in any manner for any accidents or indebtedness through purchase of materials, labor loans, or any other liabilities appertaining thereto.

IN WITNESS WHEREOF, the said Pat Gorham, Lillian H. Branaman, and L. Lee Boyer have hereto set our hand and seal this _____ day of _____, 1940

(Seal)

(Seal)

(Seal)

STATE OF ARIZONA
COUNTY OF PINAL: SS

This instrument was acknowledged before me by Pat Gorham, Lillian H. Branaman, and L. Lee Boyer, this _____ day of _____ A.D., 1940

Notary Public

My commission expires:

ASSIGNMENT OF INTEREST IN LEASE AND OPTION

- - - - -

KNOW ALL MEN BY THESE PRESENTS:

That for and in consideration of the sum of ONE DOLLAR (\$1.00) and other valuable considerations, to me in hand paid or properly agreed and secured to be paid, by E. V. THOMPSON and GEORGE C. FITCHPORTH of Phoenix, Arizona, the receipt of which sum, or agreement and security therefor, is hereby confessed and acknowledged, whereas I, L. LEE BOYER, of Superior, Arizona, have sold, assigned, delivered, and set over, and by these presents do hereby sell, assign, and deliver unto the said E. V. THOMPSON and GEORGE C. FITCHPORTH, my full and unincumbered, undivided one-half (1/2) interest in the leases and options now held by me known and described as, and pertaining to a lease and option executed by Lat Cornham of Superior, Arizona and Lillian M. Bransman of Florence, Arizona and E. N. Perkins and L. Lee Boyer of Superior, Arizona, covering five unpatented mining claims known as the Hall Group, situated in Mineral Hill, Mineral Hill Mining District, Pinal County, State of Arizona, further known and described as Ophir, Silver Pick, Fairview, Jumbo, and Blue Bell and recorded at the County Records office, Book 40, pages 154, 155, and 156. Respectfully.

Said lease and option bearing the date of September 22, A. D. 1939.

And the lease and option of the claim known as the Woodpecker also situated in Mineral Hill, Mineral Hill Mining District, Pinal County, State of Arizona executed by Woodpecker Mines Corporation and E. N. Perkins and L. Lee Boyer of Superior, Arizona. Signed, sealed and delivered by same and in full force and effect said lease and option bearing the date of October 1, 1939.

Whereas it is mutually understood and agreed by the parties herein mentioned that in the case of default or violations of any of the terms set forth in the above mentioned leases and

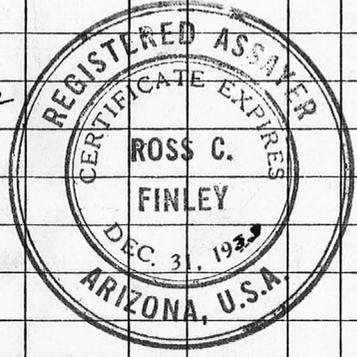
Woodpecker

ASSAY CERTIFICATE

Nov. 4 1939

Mr. Newton Volcott

| Sample No. | Owner's Mark on Sample | GOLD | | SILVER | | TOTAL VALUE PER TON | PERCENTAGE OF | | |
|------------|------------------------|--------------|---------------|--------------|---------------|---------------------|---------------|------|------|
| | | OZS. PER TON | VALUE PER TON | OZS. PER TON | VALUE PER TON | | COPPER | IRON | LEAD |
| Woodpecker | Glory Hole # 1 | | | 3.84 | | | | | 0.54 |
| check | # 2 A. | | | 1.52 | | | | | 0.31 |
| check | # H A. | | | 3.24 | | | | | 7.34 |



Ross C. Finley
Charges \$3.50

Assayer

UNIVERSITY OF ARIZONA
Arizona Bureau of Mines
Ore Testing Service

Ore No. 1137

Test No. 1

Conditions and Reagents

Table 1

| Point of Addition | Conditions | | | Reagents Pounds Per Ton | | | | | | |
|-------------------|------------|----------|-----|-------------------------|-----|-------------------|-------------------|-------|---------------------------------|----------|
| | Time Mins. | % Solids | pH | Soda Ash | 130 | 2NSO ₄ | N ₂ CN | 301 | Na ₂ SO ₃ | M.I.B.C. |
| Ball mill | 18 | 60 | | 0.5 | 0.2 | 0.75 | 0.1 | | 0.25 | |
| Conditioner | 3 | 25 | 6.9 | | | | | 0.015 | | |
| Rougher | 8 | | 7.2 | | | | | | | |
| Cleaner | 5 | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

Remarks: 130 - Reagent 130
301 - Xanthate 301
MIBC - Amyl Alcohol

Metallurgical Products

Table 2

| Product | Tons in 100 Tons Feed | Assays | | | % of Total | |
|-------------|-----------------------|--------|--|--------------|------------|-------|
| | | Silver | | Percent Lead | Silver | Lead |
| Heads | 100.0 | 11.48* | | 5.50* | 100.0 | 100.0 |
| Concentrate | 2.8 | 312.40 | | 72.55 | 76.2 | 37.0 |
| Middling | 1.9 | 46.10 | | 21.75 | 7.6 | 7.5 |
| Tailing | 95.3 | 1.95 | | 3.20 | 16.2 | 55.5 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Remarks: "Calculated"

Metallurgical results obtained above should be considered as only applicable to material conforming to the character of the sample upon which the tests were made.

UNIVERSITY OF ARIZONA
Arizona Bureau of Mines
Ore Testing Service

Ore No. 1137

Test No. 2

Conditions and Reagents

Table 3

| Point of Addition | Conditions | | | Reagents Pounds Per Ton | | | | | | | |
|-------------------|------------|----------|-----|---------------------------------|-----|-------------------|------|------|-------|-----|-------------------|
| | Time Mins. | % Solids | pH | Na ₂ SO ₃ | 130 | ZnSO ₄ | NaCN | MIBC | 301 | 425 | Na ₂ S |
| Ball Mill | 24 | 60 | | 0.25 | 0.2 | 0.8 | 0.1 | | | | |
| Conditioner | 3 | 25 | 7.2 | | | | | 0.1 | 0.015 | | |
| Sulphide Rougher | 8 | 25 | | | | | | | | | |
| Conditioner | 2 | | | | | | | | 0.5 | | |
| Oxide Rougher | 10 | | 7.9 | | | | | | | 0.9 | 1.0 |
| Cleaner | 5 | | | | | | | | 0.05 | 0.1 | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

Remarks: Na₂SO₃ - Sodium sulphite MIBC - Amyl alcohol
 130 - Reagent 130 301 - Xanthate 301
 ZnSO₄ - Zinc sulphate 425 - Reagent 425
 NaCN - Sodium cyanide Oxide froth - voluminous

Table 4

Metallurgical Products

| Product | Tons in 100 Tons Feed | oz. per ton Assays | | | % of Total | |
|-----------------------|-----------------------|--------------------|--|--------------|------------|-------|
| | | Silver | | Percent Lead | Silver | Lead |
| Heads | 100.0 | 11.70* | | 6.60* | 100.0 | 100.0 |
| Sulphide Concentrate | 6.1 | 163.80 | | 41.10 | 85.4 | 38.0 |
| Oxide Concentrate | 7.1 | 15.10 | | 43.95 | 9.2 | 47.2 |
| Oxide Cleaner Tailing | 5.1 | 4.40 | | 16.80 | 1.9 | 13.0 |
| Tailing | 81.7 | 0.50 | | 0.15 | 3.5 | 1.8 |
| Combined Concentrate | 13.2 | 83.7 | | 42.6 | 94.6 | 85.2 |

Remarks: *Calculated

Metallurgical results obtained above should be considered as only applicable to material conforming to the character of the sample upon which the tests were made.

UNIVERSITY OF ARIZONA
Arizona Bureau of Mines
Ore Testing Service

Mr. Lee Boyer
Valley Assay Office
926 E. 13th Street
Tempe, Arizona

Dear Mr. Boyer:

Ore No. 1137

Two tests were made on the silver-lead ore which you delivered to the Arizona Bureau of Mines. This first test at your request was conducted to duplicate the Eagle Picher mill flowsheet with their reagents and the second test was made to recover the sulphide and oxide lead minerals.

Test 1

A sample was ground to 4.7 percent on 100-mesh and the pulp treated by flotation. The reagents used are given in Table 1 and the results in Table 2.

The concentrate amounted to 2.8 tons per 100 tons heads, assayed 312.4 oz. silver per ton and 72.55 per cent lead and contained 76.2 and 37.0 per cent of the total silver and lead, respectively.

The middling amounted to 1.9 tons per 100 tons heads, assayed 46.1 oz. silver per ton and 21.75 per cent lead and contained 7.6 and 7.5 per cents of the total silver and lead.

The tailing assayed 1.95 oz. silver per ton and 3.20 per cent lead.

The Eagle Picher Mining and Smelting Company does not attempt to recover the oxide lead.

Test 2

A sample was ground to 6.0 per cent on 150-mesh and the pulp treated by flotation; first to float the silver and sulphide lead and then the oxide lead. The reagents used are given in Table 3 and the results in Table 4.

The sulphide concentrate amounted to 6.1 tons for 100 tons leads, assayed 163.8 oz. silver and 41.00 per cent lead and contained 85.4 and 38.0 per cents of the total silver and lead, respectively.

UNIVERSITY OF ARIZONA
Arizona Bureau of Mines
Ore Testing Service

The oxide concentrate amounted to 7.1 tons per 100 tons heads, assayed 15.1 oz. silver per ton and 43.95 per cent lead and contained 9.2 and 47.2 percents of the total silver and lead, respectively.

The combined sulphide and oxide concentrates amounted to 13.1 tons per 100 tons heads, assayed 83.7 oz. silver per ton and 42.6 per cent lead. The combined concentrates contained 94.6 per cent of the total silver and 85.2 per cent of the total lead.

The oxide cleaner tailing assayed 4.4 oz. silver per ton and 16.8 per cent lead and the tailing assayed 0.5 oz. silver per ton and 0.15 per cent lead.

Conclusion

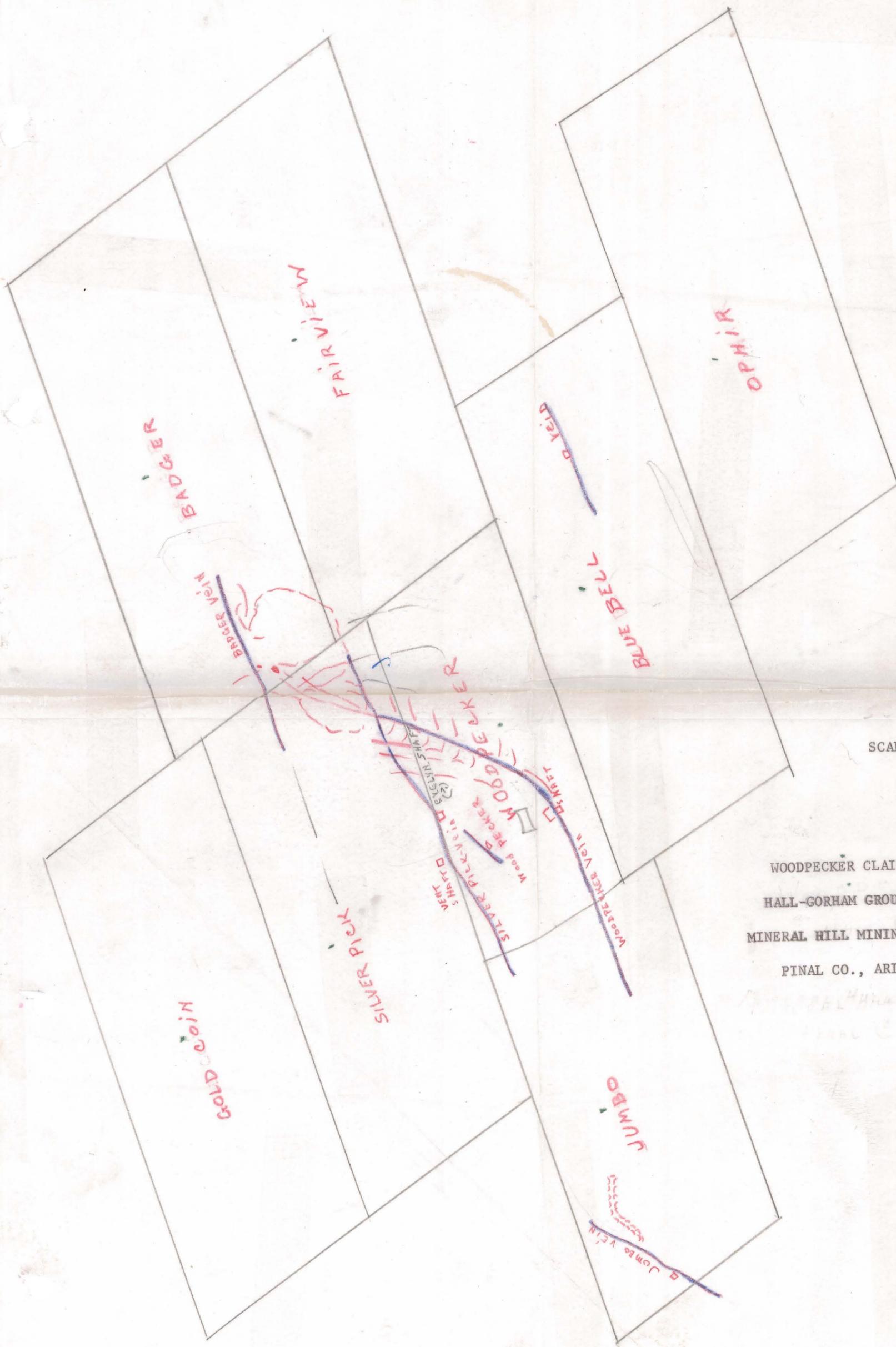
The recovery of silver and lead was 94.6 and 85.2 per cents, respectively, when the pulp was treated to concentrate the sulphide and oxide lead minerals after fine grinding.

The recovery of silver and lead would be low if sent to the Eagle Picher mill as their flowsheet does not provide for the recovery of oxidized lead.

Yours very truly,

/s/ G. H. ROSEVEARE
G. H. Roseveare
Metallurgist

(Seal)



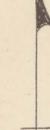
SCALE; 1" - 300'

WOODPECKER CLAIM and
HALL-GORHAM GROUP
MINERAL HILL MINING DISTRICT
PINAL CO., ARIZONA

*Mineral Hill Mining District
Pinal Co. - Arizona*

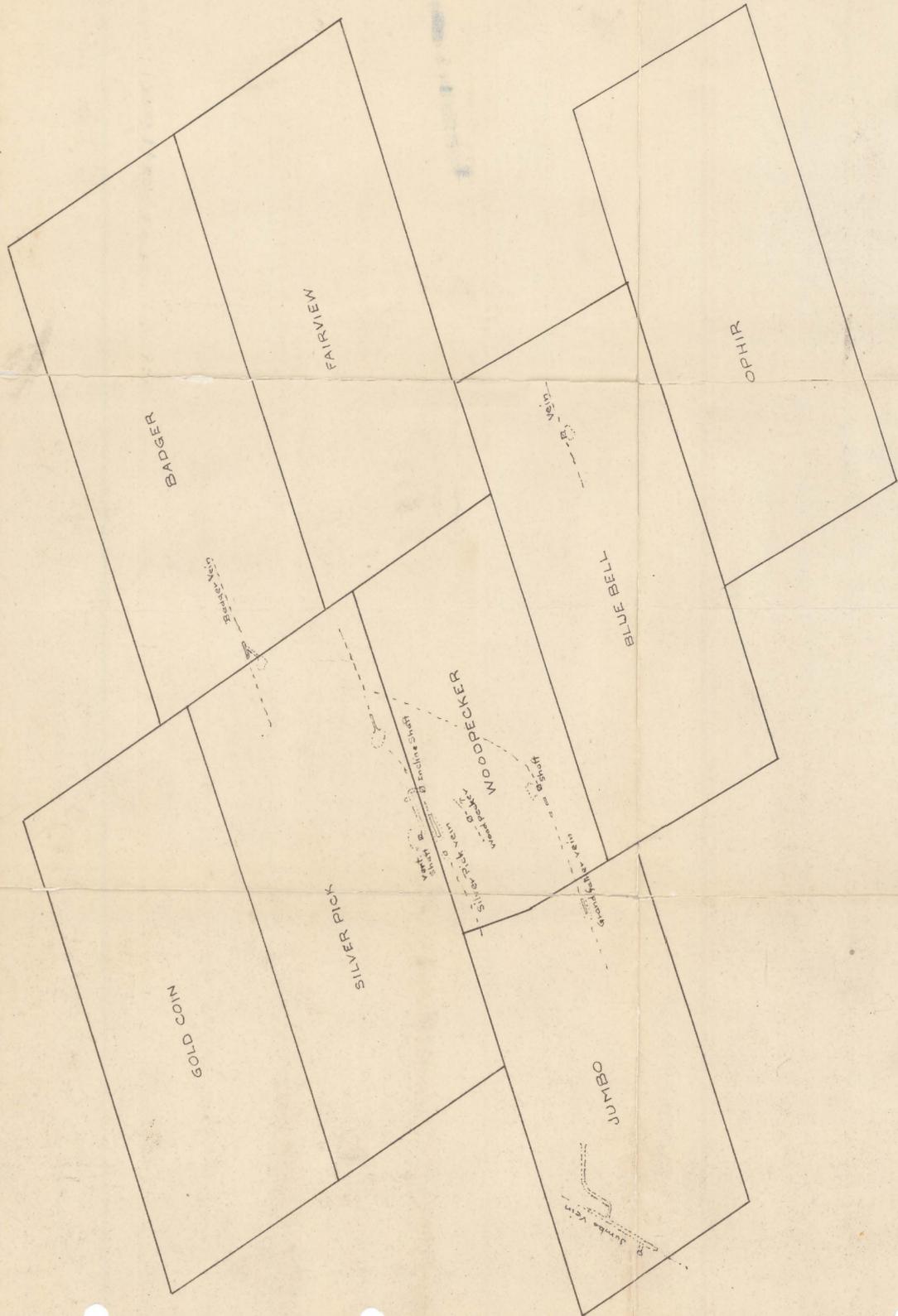
Woodpecker Mine file

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scale: 1" = 300'

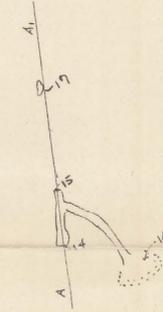
WOODPECKER CLAIM AND
HALL-GORHAM GROUP
MINERAL HILL MINING DISTRICT
Pinal Co., Arizona



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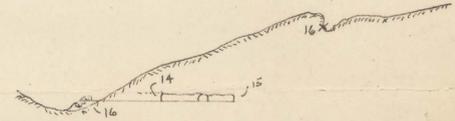


BADGER WORKINGS
scale: 1" = 60'

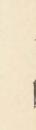


| Sample | Width | Oz Ag | % Pb | Remarks |
|--------|-------|-------|------|-----------------|
| 14 | 72" | 81.6 | 11.9 | Surface drift |
| 15 | 44" | .4 | 4.9 | N " |
| 16 | Dump | .6 | 10.5 | Dump " |
| 17 | 26" | 2.4 | 10.8 | Pit above drift |

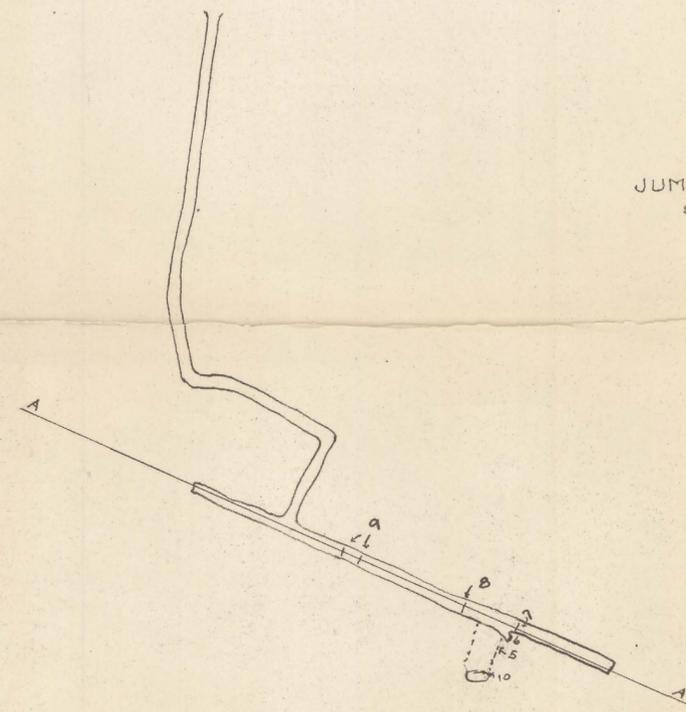
SEC. A-A,



N



JUMBO WORKINGS
scale: 1" = 60'



| Sample | Width | Oz Ag | % Pb | Remarks |
|--------|-------|-------|------|-------------------|
| 5 | 54" | 49.6 | 4.7 | 12' up Rsc |
| 6 | 16" | .8 | 5.7 | split vein |
| 7 | 33" | 10.8 | 3.2 | vein in Drift |
| 8 | 41" | 2.4 | 3.9 | " " " 20' fm. top |
| 9 | 29" | 4.2 | 4.9 | " " " 2 cuts |
| 10 | Dump | 3.8 | 9.5 | Select dump |

SEC. A-A,

SE

