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Arizona Department of Mines and Mineral Resources Mining Collection

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07/23/97

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: STRATTON MINE

ALTERNATE NAMES:

OLD HAT MINE

PIMA COUNTY MILS NUMBER: 201

LOCATION: TOWNSHIP 11 S RANGE 16 E SECTION 20 QUARTER NW
LATITUDE: N 32DEG 27MIN 57SEC LONGITUDE: W 110DEG 44MIN 37SEC
TOPO MAP NAME: BELLOTA RANCH - 15 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

COPPER SULFIDE
SILVER SULFIDE
GOLD LODE
MOLYBDENUM SULFIDE
URANIUM

BIBLIOGRAPHY:

S.B KEITH, AZBM BULL. 189, P. 131, 1974
US AEC PRR PIMA CO. AZ. 1953, P. 673
ADMMR STRATTON CON. COPPER CO. FILE
RYAN, G.S. USBM MLA OFR 118-82 P. 12
ADMMR "U" FILE CU 61
USGS OFR OLD HAT MINING DIST. GEOL. FILE, P.10
PRODUCTION POSSIBILITIES OF THE MARGINAL CU
MINES IN AZ. P. 102

REFERENCE:

See: Production Possibilities of the Marginal
Copper Mines in Ariz., 1941, p. 102.

See: USGS OFR - Old Hat Mining District
(Geology File) - P. 10 (Stratton Property)
Ridge

USGS OFR Pusch/Wilderness Study
G. S. Ryan, Geology File, p. 12

ABM Bul. 189, p. 131

MILS Sheet sequence number 0040190419

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

RECEIVED
AUG 14 1958
DEPT. MINERAL RESOURCES
PHOENIX, ARIZONA

PHOENIX, ARIZ.
AUG 7
6:30 PM
79 58



11007

(4) UNKNOWN AT ADDRESS - 29

Mr. J.V. Lines
506 Inland Bldg.
Indianapolis, Indiana

RETURN
TO WRITER
UNCLAIMED



INDIANAPOLIS, INDIANA
AUG 11
11:00 AM
1958

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

August 7, 1958

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

Stratton Consolidated Copper (Pima County) copper
(Property) (ore)

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

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

Frank P. Knight

FRANK P. KNIGHT,
Director.

Enc: Mine Owner's Report

map

See: Central Mines (file)

June 9, 1941

Mr. J. V. Lines
506 Inland Bldg.
Indianapolis, Indiana

Dear Mr. Lines:

I want to thank you for the questionnaire on the possible copper production of the Stratton Copper Company. It is very evident that this property could produce in the event that the government required the metal and was willing to finance the capital investment.

Included within this report we anticipate putting a brief description of the properties which will be listed as potential producers. In order to have these brief reports uniform in their contents we have gotten up another questionnaire showing the points we want to cover, and it will be greatly appreciated if you will fill in one of these questionnaires for the Stratton Copper Company and return it to us.

Thanking you, and with kindest personal regards,

I am

Yours very truly,

Chairman, Board of Governors
Arizona Department of Mineral Resources

CFW:LP
Enc.

Confidential

WAR MINERALS REPORT

UNITED STATES DEPARTMENT OF THE INTERIOR - BUREAU OF MINES

W.M.R. 16 - Copper

November 1942

SANTA CATALINA COPPER DEPOSITS
(Control Mines, Inc.)

Pima County, Ariz.

SUMMARY

Operations at the Santa Catalina Copper Deposits, Pima County, Arizona, utilize only two-thirds of the plant capacity. Prospecting in and adjacent to producing mines might increase reserves by 100,000 tons of ore containing at least 3 percent copper. With this quantity of reserves, mine production could increase to the mill capacity of 100 tons of ore a day, corresponding to an output of about 2,000,000 pounds of recoverable copper a year. Should exploratory work in other areas in this vicinity indicate still greater reserves mine production could be increased further and the mill enlarged accordingly.

Copper ore with some scheelite occurs in metamorphosed limestone near a diorite contact that encircles Marble Peak in a great oval nearly 4 miles in circumference. Prospecting has disclosed mineralization at many points along this contact, but these showings lack development except along a half-mile length. The oxidized zone is shallow. The sulfide ore minerals are chiefly chalcopyrite and bornite in a garnet-epidote gangue. In addition to the copper content, one deposit has considerable lead and zinc with some silver.

Production totals over 83,000 tons of ore averaging about 3 percent copper. Of the five groups of claims covering the contact zone, three are owned or leased by the Control Mines, Inc.

The Bureau of Mines will promptly undertake diamond drilling drifting, and surface trenching to explore (1) for downward extensions of known deposits and (2) for other deposits along the contact zone. Metallurgical tests will be initiated with a view to improving the milling practice and to recovering the scheelite. The estimated cost of the exploration and metallurgical work is \$50,000. The time required is 6 months.

INTRODUCTION

The Santa Catalina Copper Deposits, Pima County, Ariz., were visited by a Bureau of Mines engineer* in May 1942. They are about 25 miles by air line

* J. H. Hedges, district engineer.

northeast of Tucson. The area is known as the Old Hat Mining District and is reached from Oracle over the Mount Lemmon road, a distance of 63 miles from Tucson. The road skirts the district on the east and south a short road to the Geesman mine branching off at the Lower Control. A gate is established here for control of traffic on a one-way road to Mount Lemmon. The Geesman and Daily mines are reached by truck. The other prospects are reached only by trails.

The five principal groups consist of the Geesman, Daily, Leatherwood, Stratton, and Hartman-Homestake.

HISTORY

There is no available record of any production previous to 1910. In that year Phelps-Dodge Corporation acquired options on several groups of claims. During the next 3 years over 6,000 feet of development work was done. Most of the work was on the Camp Apache group, now called the Geesman mine, owned by Control Mines, Inc. Development comprised sinking the Geesman shaft to a depth of 280 feet and drifting on the 100-, 200-, and 250-foot levels. This work developed two ore bodies - one on each side of the shaft. These two shoots have since been mined (1937, to date) and yielded about 60,000 tons of 3- to 3 1/2-percent copper ore.

Although the ore was too low-grade to be mined profitably at that time, the showing was considered sufficient to justify patenting the five claims of the group. The Leatherwood group of 10 claims, about half a mile south, also was retained by the Corporation, and five of the claims were patented.

The Daily property, situated between the Geesman and Leatherwood groups, has been developed by means of a tunnel and laterals. A tunnel on the Copper Princess claim developed a sizable body of low-grade ore averaging about 2 1/2 percent copper. Some of the richer streaks were mined previous to 1930, and nearly 500 tons of ore was shipped. The ore was reported to contain 5.5 percent copper, 2 ounces of silver, and 45 cents in gold.

There is no record of production from the Geesman mine until 1937. In that year the Catalina Consolidated Copper Co. leased the Camp Apache group and the adjoining property of the Daily Arizona Consolidated Copper Co., which included the Copper Princess claim. In 1937 the Catalina company built a 100-ton flotation plant on the Daily ground and mined and treated ore from the Geesman and Daily properties.

In the 10 months from August 1937 to May 1938, the company treated about 18,000 tons of ore averaging 2.7 percent copper, derived from the following sources:

<u>Source</u>	<u>Tons</u>	<u>Copper, percent</u>
Daily mine	5,600	2.35
Geesman dump	1,500	1.70
Geesman mine	<u>10,900</u>	<u>3.00</u>
Total	18,000	2.69

The enterprise proved to be unprofitable at the low price of copper, and in May 1938 operations were suspended.

In October 1939, Control Mines, Inc. bought the Catalina mill and leased the Daily property, treating 1,500 to 2,000 tons a month from the Copper Princess tunnel. In May 1940, Control Mines acquired the Geesman property on bond and lease from Phelps-Dodge Corporation. Since that time production has averaged about 2,000 tons a month, mostly from the Geesman mine. The ore is reported to have averaged between 3 and 4 percent copper, with mill recovery at 90 percent or better. Concentrates are said to average about 26 percent copper, indicating a ratio of concentration of 8 or 10 to 1. Exact data are not available.

From the proceeds of its operations since October 1939, the Control company has completed purchase of the Geesman property and the Leatherwood group of claims. This transaction has been accomplished at the expense of advance development, with the result that ore reserves in the Geesman mine are now small. Reserves in the Daily mine, still under lease, are a matter for conjecture.

Available records and reports indicate the production from the Geesman and Daily mines to be about as follows:

	<u>Geesman mine</u>		<u>Daily mine</u>	
	<u>Ore mined, tons</u>	<u>Copper, percent</u>	<u>Ore mined, tons</u>	<u>Copper, percent</u>
Before 1930	--	--	500	5.5
1937	4,800	3.0	2,500	2.35
1938	6,100	3.0	3,100	2.35
Dump	1,500	1.7	--	--
1939	--	--	4,500	2.35
1940	14,000	3.3	10,000	2.35
1941	24,000	3.3	--	--
8 months 1942	<u>12,000</u>	<u>3.3</u>	<u>--</u>	<u>--</u>
Total	62,400	3.25	20,600	2.48

PHYSICAL FEATURES

The topography is rugged. The hillsides are cut by deep gullies, which rise at steep angles from an altitude of about 5,700 feet at the Control camp to 7,600 feet at the summit of Marble Peak. The slopes are covered with brush and timber and, except for trails leading to mine workings, are accessible only on foot. A few of the gullies on the north slope have springs that flow throughout the year and furnish enough water for camp use. The main supply of water for milling is pumped from the mines. Deepening the mine workings should increase this flow. It is believed that enough water to mill 200 tons a day could be developed if exploration results justify this scale of operations. A small amount of road construction would enable ore mined from any point to be trucked to the mill on the Daily claims.

OWNERSHIP

The elliptical area of limestone and the limestone-diorite contact encircling Marble Peak are completely covered by five principal groups of claims.

The Geesman group consists of six patented claims on the northeast quadrant of the oval contact. This property, originally developed by Phelps-Dodge, is now owned and operated by Control Mines, Inc. These claims have produced about three quarters of the tonnage from the district.

The Daily Arizona Copper Co. group consists of 16 claims, 8 of which are patented. Although the largest group in acreage, it has the shortest length along the contact - about 2,500 feet. It adjoins the Geesman group on the south and extends westward over the center of the limestone area. This property is under lease to the Control Mines. The Control's mill is on the Daily ground.

The Leatherwood group is owned by Control Mines. This group lies south of the Daily and consists of 10 claims, 5 of which are patented. These claims cover nearly 4,000 feet of the contact.

The Stratton group of 14 claims is owned by Mrs. Keeney of Indianapolis, Ind. The claims lie northwest of the Leatherwood group and cover the southwest quadrant of the contact for a length of about 4,000 feet.

The Hartman-Homestake group of 6 claims occupies the northwest quadrant of the oval. It lies north of the Stratton and west of the Geesman, closing the circle. It covers about 5,000 feet of the contact.

DESCRIPTION OF DEPOSITS

The Old Hat Mining District comprises the contact-metamorphic copper deposits circling Marble Peak. The ore occurs in altered limestone near a diorite contact. The limestone is a remnant, about 7,000 feet from east to west and 4,500 feet from north to south, occurring as a covering over the diorite mass. The limestone-diorite contact encircles Marble Peak in a great oval nearly 4 miles in circumference. Prospecting along the contact has disclosed mineralized ore at many points, but its development has been confined to strip half a mile long in the northeast quadrant.

Structural features that influence localization of ore bodies are obscure but appear to be related to fracturing caused by minor deformation of the limestone beds. Detailed study of the formations may be helpful in directing exploration to the most favorable areas.

Ore bodies have been developed only on the Geesman and Daily groups. These partly developed and partly mined shoots have yielded 15,000 to 40,000 tons each.

On each of the five principal groups of claims, small lots of high-grade ore have been sorted and shipped from time to time. High transportation costs and low metal prices have discouraged general development of the area.

The five groups are described below:

Geesman Group. - The Geesman shaft follows the dip of the contact to the southwest to a depth of approximately 280 feet. Drifts at the 100-, 200-, and

250-foot levels developed two ore shoots. The stopes are 15 to 20 feet wide, 70 to 80 feet long, and have been carried down to the 250-foot level. About 60,000 tons of ore averaging 3 to 4 percent copper has been mined from these two shoots. The lower limits of the ore have not been reached at the 250-foot level, although there is some evidence of decreasing width of vein and grade of ore. A few thousand tons of ore remain above the 250-foot level, and no ore has been extracted below this bottom level.

Scheelite occurs in the Geesman mine chiefly in thin bands in the white marbled limestone of the hanging wall immediately above the ore. It is possible that enough scheelite may be found to justify its separation as a by-product of copper-mining operations.

✓ Daily Arizona Copper Co. Group. - Workings consist of the Copper Princess tunnel, about 390 feet in length, and laterals to stoped areas. About 20,000 tons of 2 1/2-percent ore has been mined from this tunnel since 1937. The product from this tunnel goes to the Control Mines mill, which treats 2,000 tons of ore a month.

✓ Leatherwood Group. - Although considerable work has been done on the property, the workings for the most part are inaccessible. Those accessible are shallow open cuts along steeply dipping veins that carry some copper carbonates and chrysocolla. These veins, averaging about 5 feet in width, follow fractures in the limestone that dip toward the northeast. In recent years leasers have mined some ore from these veins and have also sorted the best ore from the dumps. The dump material does not indicate that sulfide ore was found in the underground workings.

✓ Stratton Group. - The main working is a 20° incline shaft 80 feet deep sunk in a mineralized bed of garnetized limestone. The bottom and sides show 2 1/2 to 3 feet of ore, mainly bornite and chalcopyrite, with a little pyrite. A few cuts and shallow tunnels show some mineralization in the form of copper oxides. Some small shipments totaling probably not more than 100 tons have been made from this property.

✓ Hartman-Homestake Group. - The workings comprise some 1,500 feet of cross-cut tunnels and drifts and several winzes and raises following fractures and veins in the limestone. This property is unique in that the ore carries high values in lead and zinc as well as copper. It is reported that one ore body opened for a length of 235 feet and further explored by 90 feet of raises ranges in width from 2 to 12 feet. The average width is about 6 feet, and the average grade is 3 percent copper, 6 percent lead, 7.6 percent zinc, and 2.35 ounces of silver a ton.

THE ORE

The ore minerals are chiefly chalcopyrite and bornite in a garnet-epidote gangue. The zone of oxidation is very shallow, as sulfides occur close to the surface. The ore is readily concentrated by flotation. With a concentration ratio of 8 or 10 to 1, a recovery above 90 percent is reported. The concentrates run about 26 percent copper.

ORE RESERVES

On each of the five principal groups of claims mineralized areas have been found in the limestone near the igneous contact.

On the Geesman property, a few thousand tons of ore containing about 3 or 4 percent copper remain above the 250-foot level. These shoots produced some 60,000 tons of 3- or 4-percent ore above the 250-foot level. It is assumed that these shoots continue downward to an undetermined depth, although the minable width of stope and grade of ore appear to be decreasing. Lateral exploitation along the contact for other ore bodies and development of downward extensions of known ore shoots offer the best possibilities for additional ore on this property.

Ore from the Copper Princess tunnel on the Daily Arizona property is now going to the nearby Control Mines mill. The Leatherwood Group underground workings are inaccessible but offer opportunity for developing ore along the 4,000 feet of contact.

The Stratton Group has been developed least. A 20°, 80-foot incline shaft exposed a 2 1/2- to 3-foot bed of bornite and chalcopyrite ore. The Hartmann-Homestake contains a partly developed ore body averaging about 6 feet in width and carrying values in copper, zinc, lead, and silver. The probable tonnage from this deposit has not yet been estimated.

PROPOSED WORK BY BUREAU OF MINES

A Geological Survey party has been working in the district since August 1942, and geologic mapping of the surface and underground workings was nearly completed by mid-October 1942. This work is expected to reveal features of the mineralization that will aid in locating sites for diamond-drill holes. Drilling from the surface and underground stations will explore favorable geological areas and downward extensions of known ore bodies. Five hundred feet of drifting to develop any ore that might be indicated by drilling is included in the estimates of costs that follow.

Short holes will be drilled in the Geesman mine to explore a block along the contact zone west of the stoped area above the 100-foot level. Continuation of the ore below the mine workings will be determined by diamond drilling. A sector of the contact zone as yet unexplored for a distance of 3,000 feet will be trenched and sampled. The most favorable areas will be drilled.

The estimated cost of the Bureau's exploratory work and ore testing is summarized below:

5,000 feet of diamond drilling, including sampling and assaying, at \$5 a foot.....	\$ 25,000
1,500 feet of trenching and trench sampling at \$5 a foot.....	7,500
500 feet of exploratory headings at \$14 a foot.....	7,000
Surface and underground surveying, mapping, and underground sampling.....	5,000
Metallurgical tests to improve milling practice and to recover scheelite.....	<u>5,500</u>
Total	50,000

CONCLUSIONS

It is estimated that the exploration program of the Bureau will indicate enough ore to increase the present mining and milling operation by 50 percent. This would increase production to 3,000 tons of ore a month. Metallurgical tests will be made with a view to improving milling practice and to recovering the scheelite. Should enough ore be indicated to warrant enlarging the 100-ton mill, suitable recommendations will be made for development and construction work.

The occurrence of scheelite in the marbleized hanging wall in the Geesman property might be worth investigating. This might lead to a small byproduct of tungsten concentrates. A small quantity of scheelite is now being 'high-graded' and sold to tungsten buyers in Tucson.

The Bureau of Mines will explore the properties of the Control Mines, Inc. at once.

Arizona Department of Mine Resources, Capitol Building, Phoenix, Arizona

QUESTIONNAIRE

Relating to survey of potential copper production from Arizona small and marginal mines for national defense purposes;

Name of mining property..... Stratton Copper Co.

Location..... Pima Co., Arizona - 28 miles N.E. Tucson

Ownership..... Fee Simple

Name of Manager..... None - J. V. Lines

Post Office address..... 506 Inland Bldg., Indianapolis, Ind.

Copper production (pounds) during each of the past five years:

1936..... None 1937..... None 1938..... None

1939..... None 1940..... None

1941 rate of copper production based upon first four months..... None

How much copper could this property produce annually

..... on a 14 cent price? 1,000 tons

..... on a 16 cent price? 2,000 "

..... on an 18 cent price? "

..... on a 20 cent price? "

What price copper is necessary for this property? 14¢ to 16¢..... cents per pound?

What plant facilities would be required and how much is the estimated cost in the

event a 14 cent price could be assured? \$20,000

a 16 cent price could be assured? Same

18 cent price? Same

20 cent price? Same

For what length of time would assurance of price and sale of full production be ne-

cessary? No specified time

(Over)

How long would it take, after financing has been provided for, before production on the above basis could be reached? ... 90 days

Does your organization have the facilities for raising the necessary capital to increase production to the amount stated? .. No

If not, do you believe that your company would be amenable and agreeable to government financing? Yes

Do you believe that you could finance the capital investment yourself on some such basis as a guarantee of sale of output at a fixed price and for a definite period, with damages to cover unamortized portion of capital investment in the event the government failed to take the output for the agreed upon time - or some similar arrangement? ... No

Please let us have your comments on the probability or possibility of your organization participating in such a program for national defense purposes

..... Would be interested anyway to benefit national defense - I think it would be profitable for the government or state to own and operate this claim.

What would be your ideas on financing and carrying out such a plan as is indicated by these questions? ... There are 14 claims comprising 265 acres. I have engineer's

report (Jn. Carter Anderson) dated 1919 - but there is unlimited copper deposits and the property joins proven property and this is virgin property.

Kindly list names and addresses of other potential copper producers in Arizona whose operations should be included within this survey... None

..... Anyone could really steal this property as it is in an estate and must be sold. I estimate its value \$50,000 and can sell it free and clear for \$12,500.

(1090)

Date June 2, 1941 Signed J. V. Lines

QUESTIONNAIRE

Relating to survey of potential copper production from Arizona small and marginal mines for national defense purposes;

Name of mining property... *Stratton Copper Co.*
Location... *Pima Co - Arizona 2.8 Miles N. E. Tucson*
Ownership... *Fer. Single*
Name of Manager... *none - P. L. Lines*
Post Office address... *506 - Oakland Bldg. Indianapolis Ind.*

Copper production (pounds) during each of the past five years: *none*
1936... *none* 1937... *none* 1938... *none*
1939... *none* 1940... *none*
1941 rate of copper production based upon first four months... *none*

How much copper could this property produce annually
on a 14 cent price? *1,000 tons*
on a 16 cent price? *2,000 "*
on an 18 cent price? *!"*
on a 20 cent price? *!"*

What price copper is necessary for this property? ... *14 c. to 16 "* cents per pound?

What plant facilities would be required and how much is the estimated cost in the event a 14 cent price could be assured? *\$20,000*

a 16 cent price could be assured? .. *same*

18 cent price? .. *same*

20 cent price? .. *same*

For what length of time would assurance of price and sale of full production be necessary? *no specified time*

*2070
7572
2,000,000*

How long would it take, after financing has been provided for, before production on the above basis could be reached? *90 days*

Does your organization have the facilities for raising the necessary capital to increase production to the amount stated? *no*

If not, do you believe that your company would be amenable and agreeable to government financing? *yes*

Do you believe that you could finance the capital investment yourself on some such basis as a guarantee of sale of output at a fixed price and for a definite period, with damages to cover unamortized portion of capital investment in the event the government failed to take the output for the agreed upon time - or some similar arrangement? *no*

Please let us have your comments on the probability or possibility of your organization participating in such a program for national defense purposes.

Would be interested any way to benefit national defense - I think it would be profitable for the government or state to own & operate this claim

What would be your ideas on financing and carrying out such a plan as is indicated by these questions?

There are 14 claims comprising 265 acres - I have engineers (reg - A) Geo Carter Anderson, dated 1949 - but there is unlimited copper deposits & the property joins proven property & this is virgin property

Kindly list names and addresses of other potential copper producers in Arizona whose operations should be included within this survey.

*None
Anyone could really steal this property as it is in an estate & must be sold. I estimate its value - 150,000.00 & can sell it free & clear for 125,000.00*

Date *June 2-1941* Signed *J.V. Lines*

M-S-19-
OC

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA

OWNERS MINE REPORT

Date August 28th 1939

Mine Stratton Consolidated Copper Co.

District Old Hat District

Location Sec. 20 - Twp. 11S - Range 16E
Pima County Containing 256,45/100 acres

Former name O.E. Stratton Property

Owner Keeney (J.V.Lines Option)

Address Pima County Arizona

Operator None

Address:

President None. Owned in Fee Simple

Gen. Mgr.

Mine Supt. none

Mill Supt.

Principal Metals Copper

Men Employed

Production Rate

Mill: Type & Cap.

Power: Amt. & Type

Operations: Present None

Operations Planned None.

Number Claims, Title, etc. Fourteen (14) claims U.S Patented and all taxes paid to

- date and are owned in fee simple by S,H.Keeny and Optioned to J.V.Lines

506 Inland Building, Indianapolis, Indiana.

Description: Topog. & Geog.

Mine Workings: Amt. & Condition

All report herein contained are taken from John Carter Anderson's report, who was the Engineer on the mining property herein mentioned.

Geology & Mineralization In common with many of the important copper mining districts of Arizona, the principal geological features of the district are a big section of the Paleozoic sediments of Arizona intruded, distorted, highly metamorphosed and mineralized by a post-carboniferous mass of granitoid igneous rock.

Ore: Positive & Probable, Ore Dumps, Tailings The principal ore-showing on the property is found in the garnet-epidote bed in the upper half of the Mescal lime. This contact circles thru the property from one to the other, a distance of more than 5,500 feet, being opened by small development shafts, cuts and tunnels on the Garnet, Yellow-Copper, Bornite, Cuprite, Over-the-top, Apex and Contact claims, with undeveloped outcrops showing copper carbonates at many places.

Mine, Mill Equipment & Flow Sheet between openings. It is, to judge from surface outcrops and shallow openings, an almost continuous ore-shoot for over 5500 feet.

Road Conditions, Route Road conditions are good via Oracle or direct to Catalina mountain highway, this property being about 28 miles via air-line north east of Tucson.

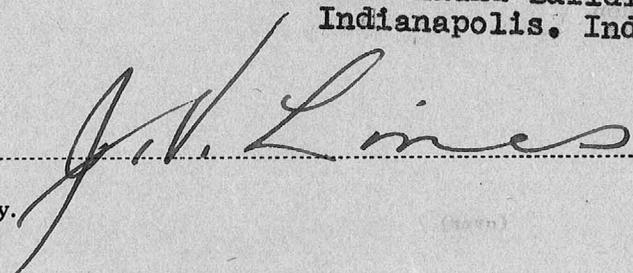
Water Supply Abundant of water supply from numerous springs on the property.

Brief History There were as I have been informed three groups of claims one was the Leatherwood claims and the other was the Geiseman claims and this was the Stratton claims, all located in the Catalina mountains and all joining, The Phelps-Dodge company bought and own a part of the Leatherwood* Geiseman claim and the Daily Arizona Copper Co. own a part and the Security Mine Co own a part the other group known as the Stratton group is the property I am herein referring to, and all three are referred to as located in the Old Hat District.

Remarks Mr. J. E Willis editor of the Arizona Mining journal under date of March 22 1920 wrote, The Stratton property is in my opinion worthy of energetic development. I have personally examined the property while I was director of the State Bureau of Mines and feel that it is an excellent opportunity for development of considerable Ore-Bodies. The isolation of the property has been removed and there is no reason why it should not develop into a producer. The ore occurrences come in the same conditions as those of the Copper Queen workings near by and they have a proven property.

If property for sale: Price, terms and address to negotiate. The property is for sale and the price is \$35,000.00 would consider some trade or some terms

J.V.Lines
506 Inland Building
Indianapolis, Ind.

Signed 

Use additional sheets if necessary.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
OWNERS MINE REPORT

Date August 28th 1939

Mine Stratton Consolidated Copper Co.

District Old Hat District

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Operator None

Address

President None. Owned in Fee Simple

Gen. Mgr.

Mine Supt. none

Mill Supt.

Principal Metals Copper

Men Employed

Production Rate

Mill: Type & Cap.

Power: Amt. & Type

Operations: Present None

Operations Planned None.

Number Claims, Title, etc. Fourteen (14) claims U.S Patented and all taxes paid to date and are owned in fee simple by S,H.Keeny and Optioned to J.V.Lines
506 Inland Building, Indianapolis, Indiana.

Description: Topog. & Geog.

Mine Workings: Amt. & Condition

All report herein contained are taken from John Carter Anderson's report, who was the Engineer on the mining property herein mentioned.

Geology & Mineralization In common with many of the important copper mining districts of Arizona, the principal geological features of the district are a big section of the Paleozoic sediments of Arizona intruded, distorted, highly metamorphosed and mineralized by a post-carboniferous mass of granitoid igneous rock.

Ore: Positive & Probable, Ore Dumps, Tailings The principal ore-showing on the property is found in the garnet-epidote bed in the upper half of the Mescal lime. This contact circles thru the property from one to the other, a distance of more than 5,500 feet, being opened by small development shafts, cuts and tunnels on the Garnet, Yellow-Copper, Bornite, Cuprite, Over-the-top, Apex and Contact claims, with undeveloped outcrops showing copper carbonates at many places.

Mine, Mill Equipment & Flow Sheet between openings. It is, to judge from surface outcrops and shallow openings, an almost continuous ore-shoot for over 5500 feet.

Road Conditions, Route Road conditions are good via Oracle or direct to Catalina mountain highway, this property being about 28 miles via air-line north east of Tucson.

Water Supply Abundant of water supply from numerous springs on the property.

Brief History There were as I have been informed three groups of claims one was the Leatherwood claims and the other was the Geiseman claims and this was the Stratton claims. all located in the Catalina mountains and all joining, The Phelps-Dodge company bought and own a part of the Leatherwood* Geiseman claim and the Daily Arizona Copper Co. own a part and the Security Mine Co own a part the other group known as the Stratton group is the property I am herein referring to. and all three are referred to as located in the Old Hat District.

Remarks Mr. J. E Willis editor of the Arizona Mining journal under date of March 22 1920 wrote, The Stratton property is in my opinion worthy of energetic development. I have personally examined the property while I was director of the State Bureau of Mines and feel that it is an excellent opportunity for development of considerable Ore-Bodies. The isolation of the property has been removed and there is no reason why it should not develop into a producer. The ore occurrences come in the same conditions as those of the Copper Queen workings near by and they have a proven property.

If property for sale: Price, terms and address to negotiate. The property is for sale and the price is \$35,000.00 would consider some trade or some terms

J.V.Lines
506 Inland Building
Indianapolis, Ind.

Signed.....

Use additional sheets if necessary.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
OWNERS MINE REPORT

Date August 28, 1939

Mine Stratton Consolidated Copper Co.

District Old Hat District

Location Sec. 20 - Twp. 11^S - Range 16^E
Pima County - containing 256-45/100 acres

Former name O. E. Stratton Property

Owner Keeney (J.V.Lines Option)

Address Pima County, Arizona

Operator None

Address

President None - owned in fee simple

Gen. Mgr.

Mine Supt. None

Mill Supt.

Principal Metals Copper

Men Employed

Production Rate

Mill: Type & Cap.

Power: Amt. & Type

Operations: Present None

Operations Planned None

Number Claims, Title, etc. Fourteen (14) claims U.S. Patented and all taxes paid to date and are owned in fee simple by S. J. Keeney and optioned to J. V. Lines, 506 Inland Building, Indianapolis, Indiana.

Description: Topog. & Geog.

Mine Workings: Amt. & Condition

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Mine, Mill Equipment & Flow Sheet

Road Conditions, Route Road conditions are good via Oracle or direct to Catalina mountain highway, this property being about 28 miles via air-line northeast of Tucson.

Water Supply Abundant water supply from numerous springs on the property.

Brief History There were, as I have been informed, three groups of claims - one was the Leatherwood claim and the other the Geiseman claim and this was the Stratton claim, all located in the Catalina mountains and all joining. The Phelps-Dodge Company bought and own a part of the Leatherwood-Geiseman claim and the Daily Arizona Copper Co. owns a part and the Security Mine Co. owns a part - the other group known as the Stratton group is the property I am herein referring to, and all three are referred to as located in the Old Hat District.

Special Problems, Reports Filed

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Signed..... J. V. Lines

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