



CONTACT INFORMATION

Mining Records Curator
Arizona Geological Survey
1520 West Adams St.
Phoenix, AZ 85007
602-771-1601
<http://www.azgs.az.gov>
inquiries@azgs.az.gov

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PRINTED: 04/17/2002

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: NEW STANDARD MINE

ALTERNATE NAMES:
ARIZONA STANDARD

LA PAZ COUNTY MILS NUMBER: 36

LOCATION: TOWNSHIP 9 N RANGE 17 W SECTION 9 QUARTER SW
LATITUDE: N 34DEG 07MIN 52SEC LONGITUDE: W 114DEG 02MIN 13SEC
TOPO MAP NAME: BLACK PEAK - 15 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:
COPPER OXIDE
IRON HEMATITE
SILVER
GOLD LODE

BIBLIOGRAPHY:
KEITH, S.B., 1978, AZBM BULL. 192, P. 142
ADMMR NEW STANDARD MINE FILE

ARIZONA STANDARD COPPER COMPANY

Arizona Mining Journal, 12/15/22, p. 23, 40

Copy of Sealed Original
J.M. 2002

T. E. KELSO
Mining Engineer
Los Angeles, California.

[Handwritten signature]



Feb. 3rd, 1921

ask + fee
685

To Board of Directors of
Arizona Standard Copper Co.,
410 Pacific-Finance Bldg.,
Los Angeles, Calif.

Gentlemen:-

At your request and since making my last report,
I again visited your property and remained there several days.
After carefully examining the workings and surface conditions
I was more than surprised to see the great amount of new ore
developed and also the wonderful supply of water. I beg to
submit the following report, and I assure you I have all the
facilities at my command to aid me in arriving at my conclusions.

REPORT

LOCATION:

The property is located in the Cienoga Mining Dis-
trict, Yuma County, State of Arizona, about 14 miles East of
the town of Parker, Arizona, on the Santa Fe Railroad, and
about 7 miles from Midway, on the Swansea Railroad. There are
good automobile roads from the railroad to the mine either from
Parker or Midway. Roads have been so constructed all over the
property that every claim can be easily reached by auto or truck.

PROPERTY:

Consists of thirty-nine mining claims, 600 ft. x
1500 ft., making in all about 780 acres in a compact body. All

claims have been regularly surveyed and monumented and all conditions required by law have been fulfilled. Title of property is held by possessory rights and deeds required by United States laws and all requirements of the State of Arizona have been complied with, making the title to the property perfect. A complete abstract of title furnished by Yuma Title, Abstract and Trust Company, of Yuma, Arizona, and dated October 19th, 1920, was found by me to be correct.

WATER:

Sufficient water has been developed on the property to handle all camp and drilling operations and also the operation of a one hundred to five hundred ton leaching plant or more. Should you at any time in the future require a greater supply than that already developed, a six-mile pipe line to the Bill Williams River would furnish you with an unlimited amount.

WOOD:

A vast supply of the ironwood variety is obtainable on the property and this wood, which is the equal of anthracite coal, could be used for camp purposes and drilling or for anything else where steam is needed.

GEOLOGY:

The geological conditions here are almost identical with the other large porphyry deposits of Arizona. The formations of the district are principally shales, andesites, rhyolites and granites, porphyry and schist. Overlying these is the pre-cambrian limestones.

It is characteristic of this district that the values in Gold, Silver and Copper increase with depth, this having held true in all mines now producing. The altered silicified zones lying in lenses between the porphyries are apparent.

The leached portions of the surface expose and promise a large amount of carbonate ores rich enough to leach on the ground. The whole surface of this group is certainly most promising of ore of a disseminated character and of a very much richer content than any of the ores now being worked by either the Ray Consolidated or Miami properties. The presence of much iron of the specular type is a reliable guide to the re-disposition of solved copper at or near the water level, and there is at present large tonnage of surface carbonate ores that can be profitably handled and will be a source of great revenue for many years. There are two distinct periods of intrusion and deposition that have taken place on this property. The main one has occurred from a north and South intrusion and the second from East to West known as the planet intrusion, on which is located the Swansea Consolidated property. This intrusion having broken through the planet range of mountains at this point overflowing this property, gives it a second enrichment, which in my mind has greatly added to the richness and vast tonnage of sulphide ores lying beneath this deposit.

ORE DEPOSITION:

The crushing and faulting of the porphyritic schist has opened channels and beds which have been filled by the circulating solutions to such an extent that practically the whole mass has been filled by ore-bearing copper, which may be from a few feet to several hundred feet in thickness.

DEVELOPMENT:

Sufficient work has been done to show the merits of the property. A large number of shafts, open cuts and drill holes, from 10 ft. to 365 ft., have been put down all over the property and everyone has shown copper carbonates. In fact

the entire area of this property on the surface shows the carbonates and stains, some parts having been more oxidized and leached than others. I must say that of all the properties I have visited in Arizona, for surface showing this property has them all surpassed, for there is not a shaft or cut anywhere over the entire area where the porphyritic schists come to the surface that it does not show carbonate ores. Therefore, I am more than ever convinced that underneath this entire property you will find a disseminated sulphide ore, as the entire surface is just the oxidized capping for the permanent sulphides underneath.

CARBONATE ORE DEPOSITS:

The main ore deposits as considered blocked out are the two Domes called Dome City No. 1 and Dome Mineral Zone No. 2. As these two domes are practically the same size as to measurements and ore deposits, I will treat them as the same. I wish to state that all discrepancies in arriving at the following calculations are taken care of in making these estimates and plenty of lee-way has been given, so if the proper methods are used, the results should be obtained as outlined.

ESTIMATIONS OF DOME NO. 1 and NO. 2

Size of Dome No. 1 - 200 ft. long x 200 ft. wide x 100 ft. deep. (There is a shaft 210 ft. deep on this Dome which is all in ore, while in my calculations I have only taken the ore to be 100 ft. deep.) $200 \text{ ft.} \times 200 \text{ ft.} \times 100 \text{ ft.} = 4,000,000 \text{ cu. ft.}$ in Dome No. 1. $2 \times 4,000,000 \text{ cu. ft.}$ would be 8,000,000 cu. ft. in Domes No. 1 and No. 2. Therefore, dividing 8,000,000 cu. ft. by 10 cu. ft. equals 800,000 tons. (10 cu. ft. is the estimate for one ton of ore.) 800,000 tons being the estimated mass in these two domes; therefore it is

my opinion that at least 50% of this mass is ore, and dividing 800,000 tons by 2 would give 400,000 tons of actual ore in the two Domes.

Now, as contemplated, the erection of a 100 ton unit leaching plant would require this plant running 100 tons daily for 4,000 days to exhaust the present tonnage of these two Domes; or calculating 300 actual working days in one year, it would require over thirteen (13) years to work out this body of ore. These two Domes represent less than one one-hundredth part of the area of this property, as all over open cuts, shafts and drill holes show the same condition to exist, and we are only calculating on the basis of one hundred feet in depth when the drill holes show three hundred (300) feet of this carbonate ore, and we are using only 50% of the entire mass as being ore. Figuring any way you like you would have more ore in this carbonate deposit than could possibly be worked out in a life-time. By consulting the following cost and production sheets you can readily see the enormous profit contained in these carbonate ores.

<u>ASSAYS COVERING THESE CARBONATE DEPCSITS.</u>		<u>COPPER @ 19¢</u>
No. 1	Left hand side of open cut on Dome City Copper 6.1%	Value \$ 23.18
No. 2	From blow-out on Mineral Zone Copper 10.3%	" 39.14
No. 3	North side of tunnel on Mineral Zone No. 4, Copper 10.1%	" 38.38
No. 4	Out of loft hole on Mineral Zone No. 4. Copper 7.4%	" 28.12
No. 5	Face of Dome City Quarry Copper 12.4%	" 47.12
No. 6	Face of Mineral Zone Quarry Copper 11.4%	" 43.32
No. 7	Open cut top of hill Mineral Zone No. 3, Copper 8.75%	" 33.25

No. 8	South side of open cut on west side of Dome City. Copper 20.4%	Value \$	77.52
No. 9	From bottom of 10 ft. hole on Mineral Zone No. 8. Copper 10.1%	"	38.38
No. 10	North side of Dome City on Dome City Copper 9.4%	"	35.72
No. 11	Iron Blow-out on Mineral Zone Copper 5.25%	"	19.95
No. 12	General sample		
	Copper 13.4%	50.92	
	Silver 1.4 oz.	1.82	
	Gold .05 "	1.03	
		53.77	53.77

The copper average for the above 12 samples is over 10.4%

ESTIMATED COST OF OPERATION AND THE PRODUCTION OF LEACHING PLANTS.

100 TON PLANT WORKING 3% ORE

100 Tons 3% Copper ore, estimated @ 20¢ lb.	\$ 1,200.00
Estimated number of working days per year	300
Gross value of copper per year	\$360,000.00
Estimated gold and silver values saved on 100 tons daily	45,000.00
Total gross income from Gold, silver, Copper yearly	\$405,000.00
Cost of operations per day	486.75
Working days per year	300
Yearly cost of operations	146,025.00
Net yearly income,	\$ 258,975.00

300 TON PLANT WORKING 3% ORE

300 Tons 3% Copper ore estimated @ 20¢ lb.	3,600.00
Estimated number of working days per year	300
Gross value of Copper per year	1,080,000.00
Estimated gold & silver saved on 90,000 tons yearly	135,000.00
Total gross income from Gold, Silver & Copper yearly	1,215,000.00
Cost of operations per day,	1,321.50
Working days per year	300
Yearly cost of operations	396,450.00
Net yearly income	\$ 818,550.00

500 TON PLANT WORKING 3% ORE

500 Tons 3% Copper ore estimated @ 20¢ lb.	6,000.00
Estimated number of working days per year	300
Gross value of copper per year	1,800,000.00
Estimated gold & silver saved on 150,000 tons yearly	225,000.00
Total gross income from Gold, Silver & Copper) yearly	\$2,025,000.00

Cost of operations per day	1,924.50	
Working days per year	300	
Yearly cost of operations	\$,577,350.00	\$ 577,350.00
Net yearly income		\$ 1,447,650.00

100 TON PLANT WORKING 5% ORE

100 Tons 5% Copper ore estimated @ 20¢ lb.		\$ 2,000.00
Estimated number of working days per year	300	
Gross value of copper per year		\$ 600,000.00
Estimated gold and silver saved on 30,000 tons yearly		45,000.00
Total gross income from Gold, Silver & Copper yearly		\$ 645,000.00
Cost of operations per day	594.75	
Working days per year	300	
Yearly cost of operations	178,425.00	178,425.00
Net yearly income,		\$ 466,575.00

300 TON PLANT WORKING 5% ORE

300 Tons 5% Copper ore estimated @ 20¢ lb.		6,000.00
Est. number of working days per year	300	
Gross value of copper per year		\$ 1,800,000.00
Estimated gold & silver saved on 90,000 tons yearly		135,000.00
Total gross income from Gold, Silver & Copper yearly		\$ 1,935,000.00
Cost of operations per day	1,645.50	
Working days per year	300	
Yearly cost of operations	493,650.00	493,650.00
Net yearly income,		\$ 1,441,350.00

500 TON PLANT WORKING 5% ORE

500 Tons 5% Copper ore, estimated @ 20¢ lb.		\$ 10,000.00
Estimated working days per year	300	
Gross value of copper per year		\$ 3,000,000.00
Estimated gold & silver saved on 150,000 tons yearly		225,000.00
Total gross income Gold, Silver & Copper yearly		\$ 3,225,000.00
Cost of operations per day	2,464.00	
Working days per year	300	
	739,200.00	739,200.00
Net yearly income		\$ 2,485,800.00

PLAN OF FUTURE DEVELOPMENTS AND OPERATIONS:

As it is the intention of the company to commence immediately the erection of the first unit of the leaching plant I would recommend that the size be increased as rapidly as possible until you have at least a 500 ton plant. As there is already over 400,000 tons of carbonate ores blocked and as

this is only a small part of the area under development, it is very reasonable to assume that at least thirty to forty millions of tons of this ore can be made available in a very short period of development. The leaching plant should be increased until a five thousand ton plant is in operation and even with this daily tonnage it would require a great many years to exhaust this vast body of carbonate ores.

The company should at once start a centrally located three-compartment working shaft so as to be able to extract these carbonate ores and should continue down until the sulphide zone is reached.

SULPHIDE ORES:

I have considered the carbonate ores and a very large tonnage is shown to be available but we have not the real mine for this immense body of carbonate ore is only the capping of the real ore body of sulphides lying beneath. In all the mines now developed in Arizona, these sulphides are the most important and it will be the same in this case for, as already described, it is almost identical with other porphyry coppers of the state.

I predict that when this property is thoroughly developed to depth it will contain one of the largest sulphide bodies in Arizona, not excepting the Ray Consolidated Copper Co., Chino Copper Co., and the Inspiration Copper Co. These mines have developed tonnage of sulphide ores that by handling ten to twenty thousand tons per day they could not work out in fifty to one hundred years. This is why I say that your carbonate ores are the only stepping stones to the big mine that you will find in these sulphide ores.

Your company is very fortunate in having carbonate ores in sufficient quantities to be able to maintain a plant of large

tonnage for years to come and to make and pay large returns on these ores while the development is going on to reach the sulphides. Very few other mines have this extensive body of carbonate ores, so in reality you have two mines in one - carbonate ores and then Sulphides.

As the officers and directors of the company are successful business and mining men I do not hesitate to say that the affairs of the company are well guarded and success is assured.

I predict that in the very near future the ARIZONA STANDARD COPPER COMPANY will be added to the list of big producing mines in the State of Arizona.

SIGNED:



Mining Engineer.

EXHIBIT "A"

Copy of Sealed Original
3.11.2002.

Los Angeles, Cal., January 17, 1919.



Arizona Standard Copper Co.,

Gentlemen:

At your request I visited your property, and after going over the property, examining the workings and surface conditions, I beg to submit the following Preliminary Report on the present conditions, that exist at the property, and I want to state here that I am working independent of any one and have all the facilities at my command to aid me in arriving at my conclusions, to make this Report.

LOCATION:

The property is located about fourteen miles North and East of the Town of Parker, situated on the A. T. & S. F. R. R., located in the Cienga Mining District, Yuma County, State of Arizona, also about four miles to Midway on the Swansea R. R. Good auto roads leading to the property and also good auto roads are built all over the property, so any part of the property can be easily reached by auto.

PROPERTY:

Consists of twenty-one mining claims, 600 ft. by 1500 ft. making in all about 420 acres, in a compact body. All has been regularly surveyed and monumented and all conditions required by law have been protected. Title of property is held by possessory rights required by United States Laws and all requirements of the State of Arizona have been complied with, therefore the title to the property is perfect. The map found in back of report will show the location of property.

WATER:

Sufficient water can be developed on or near the property to handle all the camp and drilling operations for the time being. But six miles from the property a great supply can be obtained from the Bill Williams River, and I wish to emphasize the importance of this as the first one to get this water will derive a great source of revenue and at no great cost, as this supply would be sufficient for all the mines in this immediate district.

WOOD:

A vast supply is obtainable for camp, also for fuel purposes such as could be used for drilling as this wood is the Ironwood variety, which is as good for steam purposes as anthracite coal, and all can be had for the cutting.

GEOLOGY:

The geological conditions here are almost identical with other large porphyry deposits of Arizona. The formation of the District are principally shales, andesites, rhyolites and granites, porphyry and schist. Overlying these is the pre-cambrian limstones.

It is very characteristic of this district that the values in gold and copper increased in depth, this having held true in all the mines now producing. The altered silicified zones lying in lenses between the porphyries are apparent. The least leached portions of the surface expose and promise a large output of carbonate ores from the surface, rich enough to smelt on the ground or to ship to nearby smelters. The whole surface of this group is certainly most promising of ore of a disseminated character, and of a very much richer content than any of the ores now being exploited by either the Ray or Miami properties. The presence of much iron of the specular type is a reliable guide to the redistribution of solved copper at or near the water level, and there is at present large tonnage of surface carbonate ores that could be very profitably handled and would be a considerable source of revenue from handling same. Now, as there are two distinct periods of intrusion and depositions that have taken place on this property as the main one has occurred from a North and South intrusion and the second from East to West known as the planet intrusion on which are located Revenue and Clara Consolidated properties. This intrusion having broken through the planet range of mountains at this point overflowing this property, giving it a second enrichment which in my mind has greatly added to the richness and vast tonnage of sulphide ores lying beneath this deposit.

ORE DEPOSITION:

The crushing and faulting of the porphyritic schist beds has opened channels and beds which have been filled by the circulating solutions to such an extent that practically the whole mass has been filled by ore bearing copper, which may be from a few feet to several hundred feet in thickness which can only be determined by drilling, as any other method would be expensive and too slow.

DEVELOPMENT:

Sufficient work has been done to show the merits of the property as a large number of shafts from 10 ft. to 100 ft. have been sunk all over the property and everyone showed copper carbonates. In fact the entire area of this property on the surface shows the carbonates and stains, some parts having been more oxidized and leached than other places, but I must say of all the properties I have visited in Arizona, for surface showings this property has them all beaten, for there is not a place anywhere over the entire area where the porphyritic schists come to the surface that it does not show carbonate ores. Therefore, I am more than ever convinced that underneath this entire property you will find a disseminated sulphide ore, as this entire surface is just the oxidized capping for the permanent sulphides underneath.

FUTURE DEVELOPMENT:

This work must now be done by drilling as any other method would be too slow and expensive, as a great many holes must first be drilled before any definite shaft work can be started, as the position of the ore bodies must be first determined so a working shaft can be properly located to handle the ores to the best advantage possible. The ground should be mapped and platted into definite sections and drilled systematically so the ores regarding tonnage and value may be accurately computed for future handling.

REMARKS:

The Standard Copper Co. is owned and controlled by mining and business men of the highest standing which will insure the best management possible to obtain, and I predict a great future for The Standard Copper Co. and its stockholders.

ASSAYS:

The following assay will give an idea of the value of an average assay taken over the property:

<u>No.</u>	<u>Gold</u>	<u>Copper.</u>
1	82¢	2.7%
2	41¢	9.50
3	60¢	8.40
4	80¢	7.20
5	68¢	.90
6	90¢	3.50
7	70¢	9.30
8	54¢	15.
9	Tr.	5.2
10	40¢	14.20
11	Tr.	5.60
12	40¢	7.50
13	Tr.	6.25
14	80¢	18.50
17	62¢	19.20
16	42¢	2.70

The eighteen assays give a General average of 7.89% copper.

IN CONCLUSION:

I wish to say that I have examined a great many mines in my time but not any have so impressed me as this one has, and it will be very interesting to watch the future operations and development of this most promising property, and wish to predict that with the present management and sufficient money for development purposes this property will become one of the Great Copper Mines of Arizona.

Yours truly,

(Sgd.) T. E. Keiso,

MINING ENGINEER.

REPORT OF ARIZONA STANDARD COPPER COMPANY

March 2, 1918.

I have made a careful examination of the Arizona Standard Copper Company's property, which property consists of mining claims, or approximately 520 acres.

LOCATION OF PROPERTY:

Situated in Yuma County, State of Arizona, about 14 miles from Parker Station, on the Santa Fe Railway, from which place a wagon road leads to the property.

DESCRIPTION OF PROPERTY:

The mountains are low and rolling. They are bounded on one side by a flow of tufa and a more recent flow of lava and esites overlaying the tufa. Some high hills of silicified schist laying to the West, with the ground practically level on the east. The Swansea & Bouse Railway is about five miles distant from the property; also the Swansea smelter is about seven miles, and five miles from the Bill Williams River. The work consists of a drill now working on the ground under the directions of Mr. T. E. Kelso, and the plans are to prospect the ground by drilling a series of drill holes.

GEOLOGY OF THE PROPERTY:

The geology of the property is porphyritic schist. The schist shows oxidation and extreme leaching, with considerable copper ores. The schist is fractured in different directions. The copper carbonates are deposited in the fractures and the cavities. They are a series of domes protruding above the general lay of the ground, and have a heavy iron capping. This is always looked at as being a good indication of copper

ores on depth. The property has no vein system. It is a Porphyry copper deposit, and is quite extensive, showing a large area of mineralized schist similar to the property of the Ray Consolidated Porphyry Deposit at Ray, Arizona.

MY THEORY OF THE DISTRICT; AND REASONS FOR SAME:

The district being dry and oxidized and extreme oxidation and leaching seems to have taken place, and the hills are slight, and the wearing away will not keep pace with the surface zone, so in the course of time the re-arrangement of minerals will extend to a very considerable depth. I am inclined to believe that the level of water being low, are wanting. The zone of partial oxidation far down for the same reason the secondary sulphide zone is apt to be indistinct and sometimes, perhaps not separable from the oxidized zone, in some degree of re-arrangement is not likely to be so complete as in a well-watered region, but the enriched zone is likely to be as thick, or thicker, and will be more of the oxidized than of the secondary sulphide nature.

Now, I will look at the property from another point of view, and say we do find a permanent water level, then I think there is a good chance to find large deposits of secondary enrichments, as the conditions are favorable, the ground, due to extreme fracturing, have carbonates of copper in most all fractures and cavities, but the porphyritic schist being almost thoroughly leached, the values would in that case be carried down with the water and reprecipitated, as the natural solvents are in the field and would grow progressively richer with the continuation of the process. Those I believe to be the conditions of this property.

(Signed) E. J. Costello.

Copy of Sealed Original
J.M. Dooz.

Los Angeles, Cal., January 24th, 1917.

Mr. J. T. Peters.

Dear Sir:-

At your request I visited the property of the Arizona Standard Copper Co., and after going over the property, examining the workings and surface conditions, I beg to submit the following Preliminary Report on the present conditions that exist at the property, and I want to state here that I am working independent of any one and have all the facilities at my command to aid me in arriving at my conclusions, as I am paid by Mr. Peters to make this Report for his own satisfaction, and for him to know exactly the conditions that exist here regardless of any outside sources - where he may have had any previous knowledge of the property.

LOCATION:

The property is located about fourteen miles North and East of the Town of Parker, situated on the A. T. & S. F. R. R., located in the Cienga Mining District, Yuma County, State of Arizona, also about four miles to Midway on the Swansea R. R. Good auto roads leading to the property and also good auto roads are built all over the property, so any part of the property can be easily reached by auto.

PROPERTY:

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the property is perfect. The map found in back of report will show the location of property.

WATER:

Sufficient water can be developed on or near the property to handle all the camp and drilling operations for the time being. But six miles from the property a great supply can be obtained from the Bill Williams River, and I wish to emphasize the importance of this as the first one to get this water will derive a great source of revenue and at no great cost, as this supply would be sufficient for all the mines in this immediate district.

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A vast supply is obtainable for camp, also for fuel purposes such as could be used for drilling as this wood is the Ironwood variety which is as good for steam purposes as anthracite coal, and all can be had for the cutting.

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either the Ray or Miami properties. The presence of much iron of the spectacular type is a reliable guide to the redeposition of solved copper at or near the water level, and there is at present large tonnage of surface carbonates that could be very profitably handled and would be a considerable source of revenue there from now as there are two distinct periods of intrusion and depositions that have taken place on this property as the main one has occurred from a North and South intrusion and the second from East to West known as the planet intrusion on which are located Revenue and Clara Consolidated properties. This intrusion having broken through the planet range of mountains at this point overflowing this property, giving it a second enrichment which in my mind has greatly added to the richness and vast tonnage of sulphide ores lying beneath this deposit.

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area where the porphyritic schists come to the surface that it does not show carbonate ores. Therefore, I am more than ever convinced that underneath this entire area you will find a disseminated sulphide ore, as this entire surface is just the oxidized capping for the permanent sulphides underneath.

FUTURE DEVELOPMENT:

This work must now be done by drilling as any other method would be too slow and expensive, as a great many holes must first be drilled before any definite shaft work can be started, as the position of the ore bodies must be first determined so a working shaft can be properly located to handle the ores to the best advantage possible. The ground should be mapped and platted into definite sections and drilled systematically so the ores regarding tonnage and value may be accurately computed for future handling.

REMARKS:

I understand this property was acquired several years ago by Mr. T. J. Carrigan, who has always had faith in the future operations of this District, having started the first real mining operation in this section, and the same property is still going except it is gaining in strides each day until now it is rated as one of the Big Mines of Arizona - The Clara Consolidated.

Now, this same Mr. T. J. Carrigan has organized the Arizona Standard Copper Company and I understand he is to have the managing of the operation of this new organization, and of all the mining men of the Southwest he certainly is one of the most capable and successful operators for he has been identified with the mining operation of the Southwest for more than twenty-five years. He has also selected as his associates in this organization some of the most successful business men of the Southwest who are all widely known for the big and successful things that they have accomplished,

so I predict a great future for the Arizona Standard Copper Co.
and its stockholders.

IN CONCLUSION:

I wish to say that I have examined a great many mines in
my time but not any have so impressed me as this one has, and it
will be very interesting to watch the future operations and develop-
ment of this most promising property, and wish to predict that with
the present management and sufficient money for development purposes
this property will become one of the Great Copper Mines of Arizona.

Yours truly,

J. E. Kelso

MINING ENGINEER.

ARIZONA STANDARD COPPER COMPANY

Incorporated under the Laws of Arizona, 1917

Main Office, 489 I. W. Hellman Building, Los Angeles, Cal.



CAPITALIZATION

Capital Stock (par value \$1.00).....	5,000,000 Shares
Stock issued for properties and held in escrow by the Farmers & Merchants National Bank of Los Angeles, Calif., by agreement with and order of the Arizona and California Corporation Commissions.....	2,000,000 Shares
Stock issued and paid for.....	191,971 Shares
Stock paid for and not issued.....	168,114 Shares
Treasury Stock	2,639,915 Shares

PERMITS TO SELL TREASURY STOCK

PRICE 25 CENTS PER SHARE

Permission has been granted by the Arizona Corporation Commission, under its Permit No. 1592, Investment Company No. 685, and by the California Corporation Commission, under its Permit File No. 8847, to sell a portion of the stock of the company now held in the treasury.

Application for listing stock on the Los Angeles Stock Exchange will be made at an early date.

Arizona Standard Copper Co.

14639

Los Angeles Office, 489 I. W. Hellman Bldg.

PROPERTIES

The Arizona Standard Copper Company owns a group of 29 claims, or about 580 acres, in a compact body, in the Cienega Mining District, Yuma County, Arizona, 14 miles east of Parker, Arizona, on the Santa Fe railroad, and 8 miles northwesterly from Midway station, on the Arizona and Swansea railroad. The property can be reached from Los Angeles in 13 hours, via the Parker cut-off of the Santa Fe.

PRIOR DEVELOPMENTS ON PROPERTY

The company acquired the property in January, 1917. Prior to this time the former owners had expended approximately \$100,000.00 in its development, namely, by the sinking of five shafts ranging in depth from 60 feet to 210 feet, and by uncovering and opening up surface ores in a number of places. Since the acquisition of the property by the company \$35,000.00 has been spent in drilling test holes to determine the depth of sulphides and in general exploitation work, the latter resulting in developing an unlimited supply of water for all purposes. As was the case with a great many properties in the exploitation period, development was naturally hampered by the lack of efficient operators during the late war.

PROPOSED OPERATIONS

The development above referred to has uncovered sufficient ore to now make it possible, by the installation of a Mill and a Leaching Plant that will handle Carbonate and Oxide ores most economically, to realize a profit sufficient to carry a shaft to a depth at which we will reach Sulphides. Also it is proposed to continue drilling operations to block out the ore referred to in the reports of mining engineers, extracts of which follow herewith.

EXTRACTS FROM REPORT MADE BY MR. E. J. COSTELLO, MINING ENGINEER

GEOLOGY OF THE PROPERTY:

The geology of the property is porphyritic schist. The schist shows oxidation and extreme leaching, with considerable copper ores. The schist is fractured in different directions. The copper carbonates are deposited in the fractures and the cavities. They are a series of domes protruding above the general lay of the ground and have a heavy iron capping. This is always looked at as being a good indication of copper on depth. The property has no vein system. It is a porphyry copper deposit and is quite extensive, showing a large area of mineralized schist similar to the property of the RAY CONSOLIDATED PORPHYRY DEPOSIT AT RAY, ARIZONA.

MY THEORY OF THE DISTRICT:

I think there is a good chance to find large deposits of secondary enrichment, as the conditions are favorable, the ground, due to exreme fracturing, has carbonates of copper in most all fractures and cavities, but the porphyritic schist being almost thoroughly leached, the values would in that case be carried down with the water and reprecipitated, as the natural solvents are in the field and would grow progressively richer with the continuation of the process. Those I believe to be the conditions of this property.

(Signed) E. J. COSTELLO.

EXTRACTS FROM REPORT OF MR. T. E. KELSO, MINING ENGINEER

GEOLOGY:

The geological conditions here are almost identical with other large porphyry deposits of Arizona. The formations of the district are principally shales, andesites, rhyolites and granites, porphyry and schist. Overlying these is the pre-cambrian limestones.

It is very characteristic of this district that the values in gold and copper increased in depth, this having held true in all the mines now producing. The altered silicified zones lying in lenses between the porphyries are apparent. The least leached portions of the surface expose and promise a larger output of carbonate ores from the surface, rich enough to smelt on the ground or to ship to nearby smelters. The whole surface of this group is certainly most promising of ore of a disseminated character and of very much richer content than any of the ores now being exploited by either the RAY or MIAMI PROPERTIES. The presence of much iron of the specular type is a reliable guide to the redistribution of solved copper at or near the water level, and there is at present large tonnage of surface carbonate ores that could be very profitably handled and would be a considerable source of revenue from handling same. There are two distinct periods of intrusion and depositions that have taken place on this property as the main one has occurred from a north and south intrusion and the second from east to west, known as the planet intrusion, on which are located Revenue and Clara Consolidated properties. This intrusion having broken through the planet range of mountains at this point overflowing this property, gives it a second enrichment which in my mind has greatly added to the richness and vast tonnage of sulphide ores lying beneath this deposit.

(Signed) T. E. KELSO,
Mining Engineer.

STATEMENT OF FINANCIAL CONDITION

January 1st, 1920

ASSETS		
Mining Claims		\$4,999,994.00
Treasury Stock		2,808,029.00
Cash on Hand and in Bank	\$ 43.91	
	750.00	
	<u> </u>	793.91
Representative Accounts—		
Machinery and Tools		2,697.17
Automobile and Truck		2,625.50
Furniture and Fixtures		60.00
Accounts Receivable		36.25
Development Accounts		29,711.82
Profit and Loss		619.72
		<u> </u>
		\$7,844,567.37
LIABILITIES		
Capital Stock		\$5,000,000.00
Sundry Credits on Stock		17,251.37
Donated Stock		2,827,316.00
		<u> </u>
		\$7,844,567.37

The company has no bonded debts or current liabilities.

BOARD OF DIRECTORS

T. SPELLACY, President.
President of Mascot Oil Company, Los Angeles, Calif. President of Montebello Mascot Oil Company.

W. E. CARRIGAN, Vice-President and Assistant Manager, Los Angeles, Calif.

JOS. W. HOHMANN, Secretary and Treasurer, Los Angeles, Calif. Secretary of Mascot Oil Company. Secretary of Montebello Mascot Oil Company. Vice-President of Cresceus Oil Company.

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JUDGE PAUL C. THORNE, General Counsel.
Of the law firm of McGee, Thorne & Ryan, Oakland, Calif. Experienced mining attorney and former Judge of the Superior Court of Arizona.

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ARIZONA STANDARD COPPER CO.

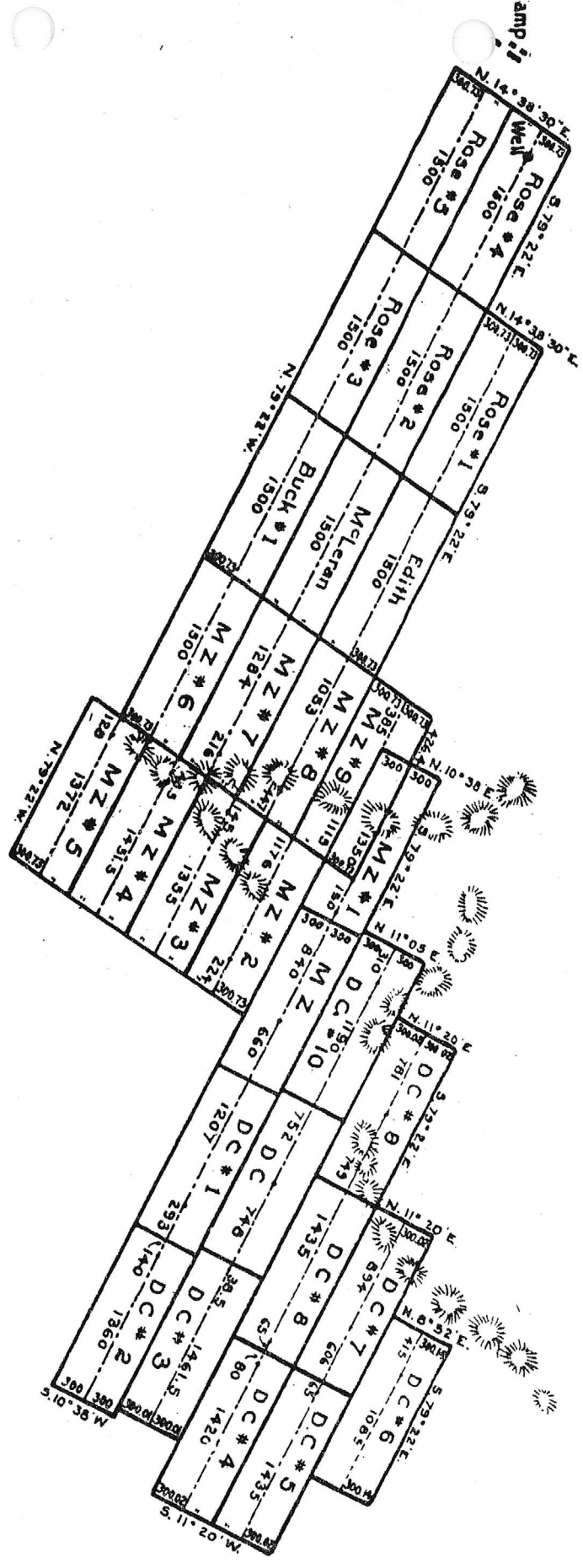
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To River
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Property of the
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ARIZONA DEPARTMENT OF MINERAL RESOURCES
MINERAL BUILDING, FAIRGROUNDS
PHOENIX, ARIZONA

August 20, 1958

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

<u>Arizona Standard Copper (Yuma County)</u>	<u>copper</u>
(Property)	(ore)

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

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

Frank P. Knight

FRANK P. KNIGHT,
Director.

Enc: Mine Owner's Report



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410 Pacific-Finance Bldg.
Los Angeles, Calif.

ARIZONA STANDARD COPPER COMPANY

Incorporated under the Laws of Arizona, 1917

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685

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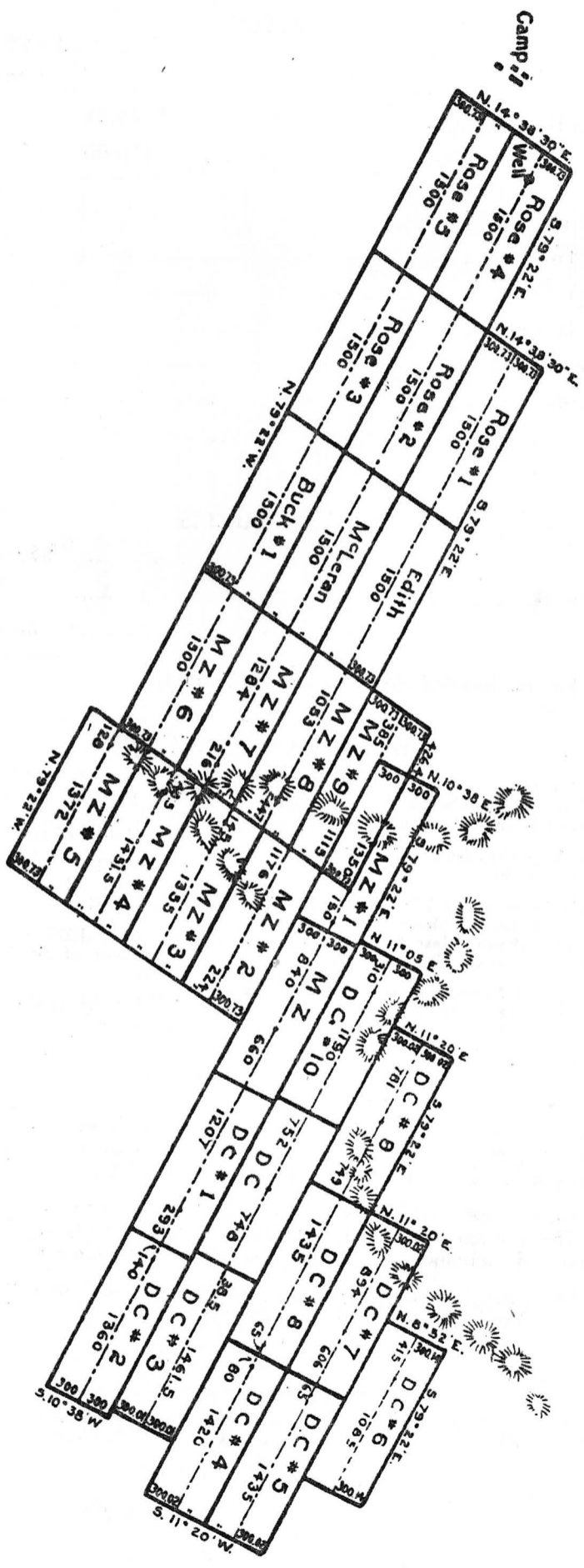
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