



## **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](mailto:inquiries@azgs.az.gov)

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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: COPPER BELLE

ALTERNATE NAMES:

YELLOW METAL GROUP  
WILLAMETTE GROUP  
DAVIS GROUP

GRAHAM COUNTY MILS NUMBER: 53

LOCATION: TOWNSHIP 4 S RANGE 19 E SECTION 35 QUARTER SE  
LATITUDE: N 33DEG 02MIN 20SEC LONGITUDE: W 110DEG 22MIN 05SEC  
TOPO MAP NAME: MOUNT TURNBULL - 7.5 MIN

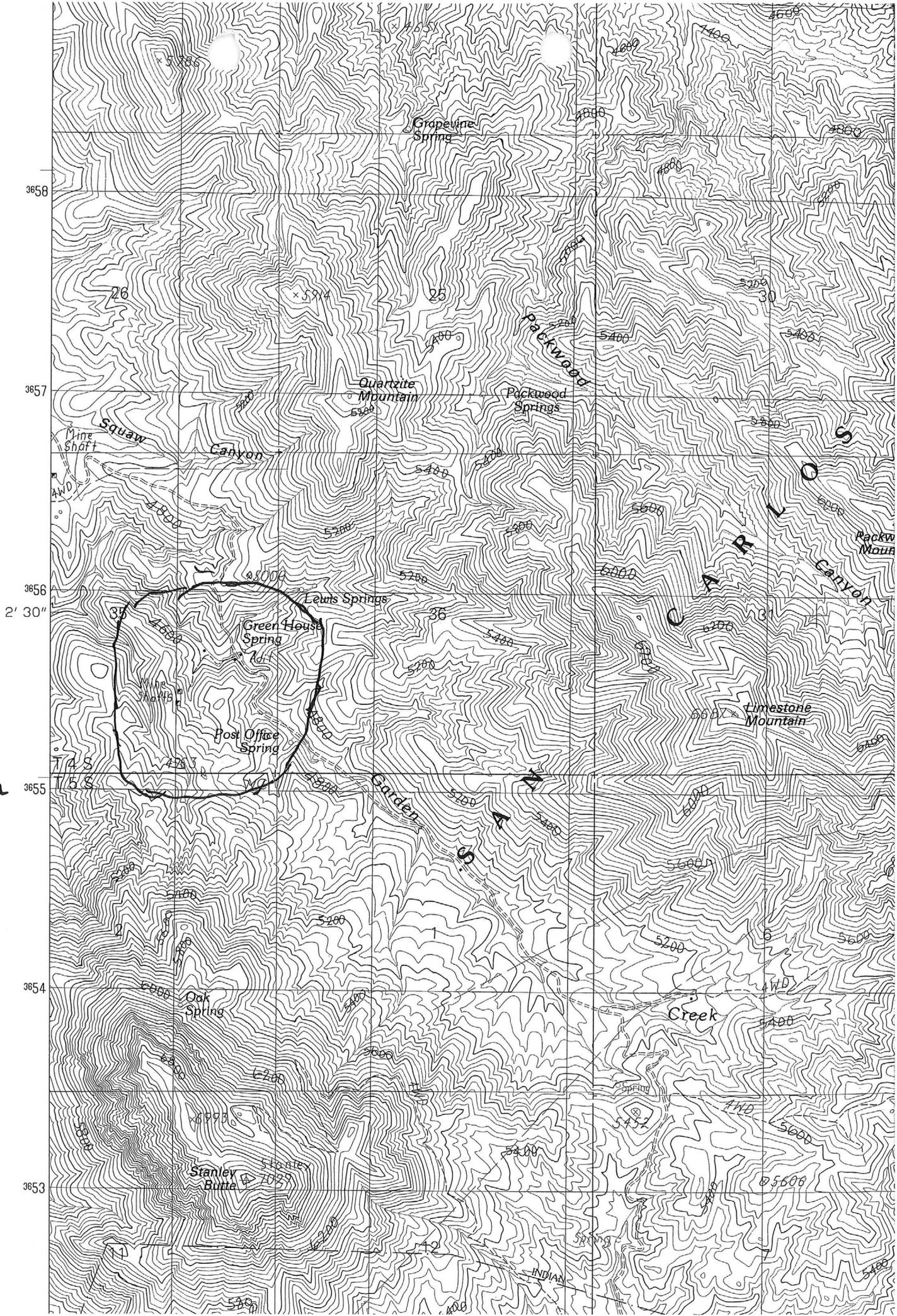
CURRENT STATUS: PAST PRODUCER

COMMODITY:

COPPER  
SILVER

BIBLIOGRAPHY:

ROSS, CLYDE P., USGS BULL. 763, 1925, P. 109  
ADMMR COPPER BELLE FILE  
ADMMR "U" FILE  
PRODUCTION POSSIBILITIES MARGINAL COPPER  
MINES IN ARIZONA, 1941, P. 102, ADMR



T4S  
R19E  
MOUNT  
TURNBULL  
7.5'

June 19, 1941

Mr. Fritz Wolf  
Coolidge Dam, Arizona

Dear Mr. Wolf:

I have your questionnaire which does not give us the answer to the most important question on which we are asking information. You state that the Willamette property could produce copper at 16¢ a pound. You did not say how much copper could be depended upon from this source, nor did you give any idea as to the capital investment required to bring out this copper. We would greatly appreciate this information. In fact, we would have to have it to include it in our report to the government.

There is some additional information that we would like to get and I might as well write for it now in order to save time, as we have to get this report in to Washington by the end of the month. 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 Willamette 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.

no contribution would be made, after financing has been provided for, before production of

Arizona Department of Mineral 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..... *Wilamette*

Location..... *Stanley Butte, McDowell Graham Co, Arizona*

Ownership..... *W. W. Wolf*

Name of Manager..... *W. W. Wolf*

Post Office address..... *Cordidge Lane, Arizona*

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

1936.....	1937.....	1938.....
1939.....	1940.....	

*W. W. Wolf*

1941 rate of copper production based upon first four months.....

How much copper could this property produce annually

..... on a 14 cent price? .....

..... on a 16 cent price? .....

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

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

What price copper is necessary for this property? ..... *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? .....

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

18 cent price? .....

20 cent price? .....

For what length of time would assurance of price and sale of full production be necessary? .....

*At least two years*

*An engine, and drift run from bottom of development shaft, about 80 feet to cut the ore short in rd shaft at about 100 ft in depth, making available approx 100 feet up and down the ore short before development shaft, now 90 feet deep, would need to sink deeper*

How long would it take, after financing has been provided for, before production on the above basis could be reached? *About 3 months*

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? *I would*

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? *Yes*

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

*Taking into consideration the two car-loads of ore shipped to El Paso smelter when copper was only 9 cents from the old shaft at depth of 70 feet, I figure that at 100 feet at least two car-loads of ore could be shipped each month at a net profit, to be applied in further development*

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

by these questions?

*Our road with here is very rough and in places narrow for large trucks. A track layed from developed shaft about 200 yds to any shaft where ore can be dumped into a bin about 100 feet from track would enable trucks to load up ore by dumping into packer of ore to road*

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

- Mr R. S. Howler, Bylas, Arizona*
  - Mr L. M. Adams, Four Lakes, Washington*
  - Frank Landeman, Blondyke, Arizona*
- Properties owned by these parties are all on the same mineral belt and need financing for development*

Date

*June 14<sup>th</sup> 1941*

Signed

*Fritz Wolf*



How long would it take, if financing has been provided before production on the above basis could be reached? About 3 months.

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? I would

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? Yes

Please let us have your comments on the probability or possibility of your organization participating in such a program for national defense purposes. Taking into consideration the two carloads of ore shipped to El Paso smelter when copper was only 9 cents from the old shaft at depth of 70 feet, I figure that at 100 feet at least two carloads of ore could be shipped each month at a neat profit to be applied in further development.

What would be your ideas on financing and carrying out such a plan as is indicated by these questions? Our road out here is very rough and in places narrow for large trucks. A track layed from development shaft about 200 yds. to a shoot where ore can be dumped into a bin about 100 feet from track would enable trucks to load out, thereby eliminating packing of ore to road.

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

- Mrs. R. S. Knowles, Bylas, Arizona
  - Mr. L. M. Adams, Four Lakes, Washington
  - Frank Landsman, Klondyke, Arizona
- Properties owned by these parties are all on the same mineral belt and need financing for development.

Date June 14, 1941 Signed Fritz Wolf

A General Description of the Willamette, Group of Mining Claims  
in Stanley Butte Mining District, Stanley, Graham County, Ariz.

Fritz Wolf, Owner by location

This group of claims consists of seven (7) unpatented claims - approximately 140 acres. Formation is chiefly lime and quartzite, intersected by string porphyry dikes. Contact veins appear on the porphyry dikes, averaging 10 to 20 feet, mostly iron with more or less copper carbonates on all of them.

At a depth of from 50 to 60 feet sulphides appear, varying from 5% to 20% copper. There are large surface showings on all claims. Principal development work is on the Willamette No. 1 where a shaft of about 70 feet on the ore shoot produced two carloads of ore that averaged 9.10% copper, 8 oz. silver, \$1.00 gold, which was shipped to the El Paso smelter several years ago, when copper was nine cents a lb. As this shaft became deeper the value of ore increased. The last ore taken out was straight chalcopryite ore that averaged 17% copper, 10 oz. silver and \$1.00 gold. The ore shoot averaged two feet wide and occurs in the lime. A slip running crosswise from hanging to foot wall apparently brought the ore which deposited in pockets in the lime varying from a foot to seven feet in width, and is continuous from the surface.

The vein or ledge matter is of a quartzzy talc gangue. On the hanging wall at about 60 feet sulphides of a low grade commenced to appear but were followed only a few feet. The principal work was done on the higher grade ore.

This property was under option and bond in 1900 to a Dr. Ruff of Safford, who wild-catted this property to benefit another property he owned in another district. It was then known as the "Copper Bell". In 1905, two Carpenter brothers -- one of Safford, and one of New York City, took a lease and bond on this property and did considerable work. They organized a development company and sold stock. They built the road into the district from old San Carlos, the nearest railroad point 17 miles away. They begun three development shafts on various claims they had under option, all of which they sunk to a depth of about 90 feet when they had to quit owing to lack of funds. They had made two payments to the owners -- one of 10% and one of 5% of the agreed purchase price -- at the end of the 1st and 2nd years. Property thereafter reverted to the owners.

One of the 90 foot shafts was sunk on the Willamette No. 1 in a good location. It is well timbered with square sets and hangers which are in good condition now. There is a gallows frame and wire cable on this shaft. The model T ford engine which was used for the hoist has served its time and could not now be used.

A drift from the bottom of this development shaft about 75 or 80 feet towards the old glory-hole shaft would open up the ore shoot at about 100 feet in depth, which would enable the taking out of about 100 feet of ore before the development shaft would need to sunk deeper.

It has been estimated that this work could be done at an approximate cost of \$6,000 to \$7,000. This would include an engine for a hoist. There is a small car for hauling purposes on the surface, also an underground rail truck for use in drifts, but there are no rails on hand now. This preleminary work and expense would be all that would be required to demonstrate practically the value of this property. (The above estimate would include the building of quarters for a working crew.)

This development shaft is about three hundred feet from the main large porphyry dike, and it has been estimated that at about 300 feet in depth on this porphyry contact the main body of sulphide ore should be encountered.

Among several others, there have been two of the country's most prominent mining engineers who have looked over this property and have expressed their opinion that all indications pointed towards the making of a large copper mine here. These two men were Dr. Ricketts, of Phelps Dodge Corporation, and Courtney De Kalb of New York City.

Courtney De Kalb told the writer that this property had the same surface showings and all the ear marks for making a secons Magma mine. Ricketts stated positively that it was his opinion that a large, high grade copper mine could be developed with the proper amount of work. All other engineers who have looked over this property agree that the indications point to the making of a large high grade mine.

Besides the two principal workings described above, there are numerous smaller workings on these claims, all showing high mineralization. There is a prominent mineralized zone ( mostly epidote and garnet, with some iron and actinolite ) which varys from 300 ft. to 600 ft. in width, running through the district for several miles. Iron and copper veins show at numerous places along this zone.

There are several side claims adjoining these 7 claims, all showing good mineralization, which are open and available for location. Several other claims on side lines now being held by other locators may be included to consolidate into a larger group at reasonable prices and terms.

Inclosed herewith will be inculded descriptions of three other groups, extensions of the Willamette group, having the same continuous veins and mineralizations, which might be included in a deal to form a group sufficiently large to justify a government loan for purposes of development.

This entire district requires development. Owners have done all they can do. The road into the district is rough but a moderate amount of money would provide a good road and one or two stiff grades would be eliminated.

( Signed )

Fritz Wolf

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

August 15, 1958

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

Williamette Group (Graham County)	copper
<hr/>	<hr/>
(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

DEPT. MINERAL RESOURCES  
RECEIVED  
DEC 16 1940  
PHOENIX, ARIZONA

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
OWNERS MINE REPORT

Date *Dec 14/40*

*MW 20*

- 1. Mine *Wallamette Group*
- 2. Mining District & County *Stanley Butte,*
- 3. Former name *Yellow Metal and Copper Belle*
- 4. Location *Stanley, Graham Co, Ariz*
- 5. Owner *Fritz Wolf*
- 6. Address (Owner) *Coolidge Dam*
- 7. Operator *" "*
- 8. Address (Operator) *" "*
- 9. President
- 10. Gen. Mgr.
- 11. Mine Supt.
- 12. Mill Supt.
- 13. Principal Metals
- 14. Men Employed
- 15. Production Rate
- 16. Mill: Type & Cap.
- 17. Power: Amt. & Type
- 18. Operations: Present

19. Operations Planned

20. Number Claims, Title, etc. *Seven, Wallamette 1-2-3-4-5  
Multnomah 1-2  
Title clear.*

21. Description: Topography & Geography. *Situated in Stanley Butte Mng. District  
In Township 4 South, Range 19 East  
Section 35*

22. Mine Workings: Amt. & Condition. *Tunnels and shafts, and open cuts  
totaling approximately 1000 feet of work, mostly  
accessible for investigation*

23. Geology & Mineralization

artzite, lime and argillite contacts, cubby large quartz porphyry dikes, large iron surface flow veins and veins, all containing more or less copper values, from 5 to 20% copper, silver 3 to 14 oz.

24. Ore: Positive & Probable, Ore Dumps, Tailings

Available ore, not developed, about 100 tons ore on dumps, low grade carbonates & sulphides, from 3 to 7%

24-A Vein Width, Length, Value, etc.

Vein widths from 10 to 20 feet surface, continuous on porphyry contacts

25. Mine, Mill Equipment & Flow Sheet

No equipment, except good galvanized frame & drum & cable on development shaft 90 feet deep, well timbered requires an engine

26. Road Conditions, Route

Leave high way East of Coolidge Dam about 10 miles of Robert Roy's Service Station, about 12 miles out property road not in very good condition, County now working it,

27. Water Supply

Lots of water, on Garden Gulch on W. 2 claim, lots of water can be developed at shallow depth.

28. Brief History

This property was segregated from the San Carlos Indian Reservation in 1896 for mining purposes only. Lots of surface work has been done, all showing large veins and blowouts. Two carloads of ore shipped to El Paso Smelter from W. 1 claim in 1912 that averaged little better than 9% copper

29. Special Problems, Reports Filed

Requires a tunnel from bottom of W. 1 and 5 oz silver 90 ft. development shaft, about 80 feet cut the ore shoot in W. 1 shaft, from which the ore was shipped. Last

30. Remarks

ore taken out at about 70 feet, was a straight Chaco. On right ore averaging 17% copper, 8 oz silver. The ore makes out in the tunnel adjacent to the main slip that brought up the ore. Dike at about 60', and is about 300 feet from large porphyry contact on surface.

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

Property for sale, am asking \$100,000. Will be agreeable and reasonable on terms

32. Signed..... Fritz H. H. [Signature]

33. Use additional sheets if necessary.

Coolidge Dam  
Arizona

MW-26

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
OWNERS MINE REPORT

Date December 14, 1940

- 1. Mine Willamette Group
- 2. Mining District & County Stanley Butte
- 3. Former name Yellow Metal and Copper Belle
- 4. Location *see 35, 45, 19 E* Stanley, Graham Co., Arizona
- 5. Owner Fritz Wolf ✓
- 6. Address (Owner) Stanley, Coolidge Dam
- 7. Operator " " ✓
- 8. Address (Operator) " "
- 9. President
- 10. Gen. Mgr.
- 11. Mine Supt.
- 12. Mill Supt.
- 13. Principal Metals *Copper - silver*
- 14. Men Employed
- 15. Production Rate
- 16. Mill: Type & Cap.
- 17. Power: Amt. & Type
- 18. Operations: Present

19. Operations Planned

20. Number Claims, Title, etc. Seven, Willamette, 1, 2, 3, 4, and 5  
Multnomah 1 and 2  
Title clear

21. Description: Topography & Geography Situated in Stanley Butte Mining District  
In Township 4 South, Range 19 East  
Section 35

22. Mine Workings: Amt. & Condition Tunnels and shafts and opencuts totaling approximately  
1000 feet of work, mostly accessible for investigation.

23. Geology & Mineralization Quartzite lime and andesite contact. Cut by large quartz from porphyry dikes. Large iron surface blowouts and veins all containing more or less copper values from 5 to 20 per cent copper silver 3 to 14 oz.
24. Ore: Positive & Probable, Ore Dumps, Tailings Available ores not developed about 100 tons ore on dumps, low grade carbonates and sulphides from 3 to 7 per cent.
- 24-A Vein Width, Length, Value, etc. Vein widths from 10 to 20 feet surface, continuous on porphyry contacts.
25. Mine, Mill Equipment & Flow Sheet No equipment except good gallows frame and drum and cable on development shaft 90 ft. deep. Well timbered requires an engine.
26. Road Conditions, Route Leave highway east of Coolidge Dam about 10 miles at Robert Roy's Service Station about 12 miles out to property. Road not in very good condition. County now out working it.
27. Water Supply Lots of water. On Garden Gulch on No. 2 claim, lots of water can be developed at shallow depth.
28. Brief History This property was segregated from the San Carlos Indian Reservation in 1896 for mining purposes only. Lots of surface work has been done. All showing large veins and blowouts. Two carloads of ore shipped to El Paso Smelter from No. 1 claim in 1912 that averaged a little better than 9 per cent copper and 5 oz. silver.
29. Special Problems, Reports Filed Requires a tunnel from bottom of 90 ft. development shaft, about 80 feet to cut the ore shoot in No.1 shaft, from which the ore was shipped last.
30. Remarks We have taken out at about 79 feet, was a straight chalcoppyrite ore, averaging 17 per cent copper, 8 oz. silver. ~~There~~ The ore makes out in the lime adjacent to the main slip that brought up the ore. Drifts at about 60° and is about 300 ft. from large porphyry contact on surface.
31. If property for sale: Price, terms and address to negotiate. Property is for sale, am asking \$100,000. Will be agreeable and reasonable on terms.

32. Signed..... Fritz Wolf

Coolidge Dam

33. Use additional sheets if necessary.

Arizona