



## **CONTACT INFORMATION**

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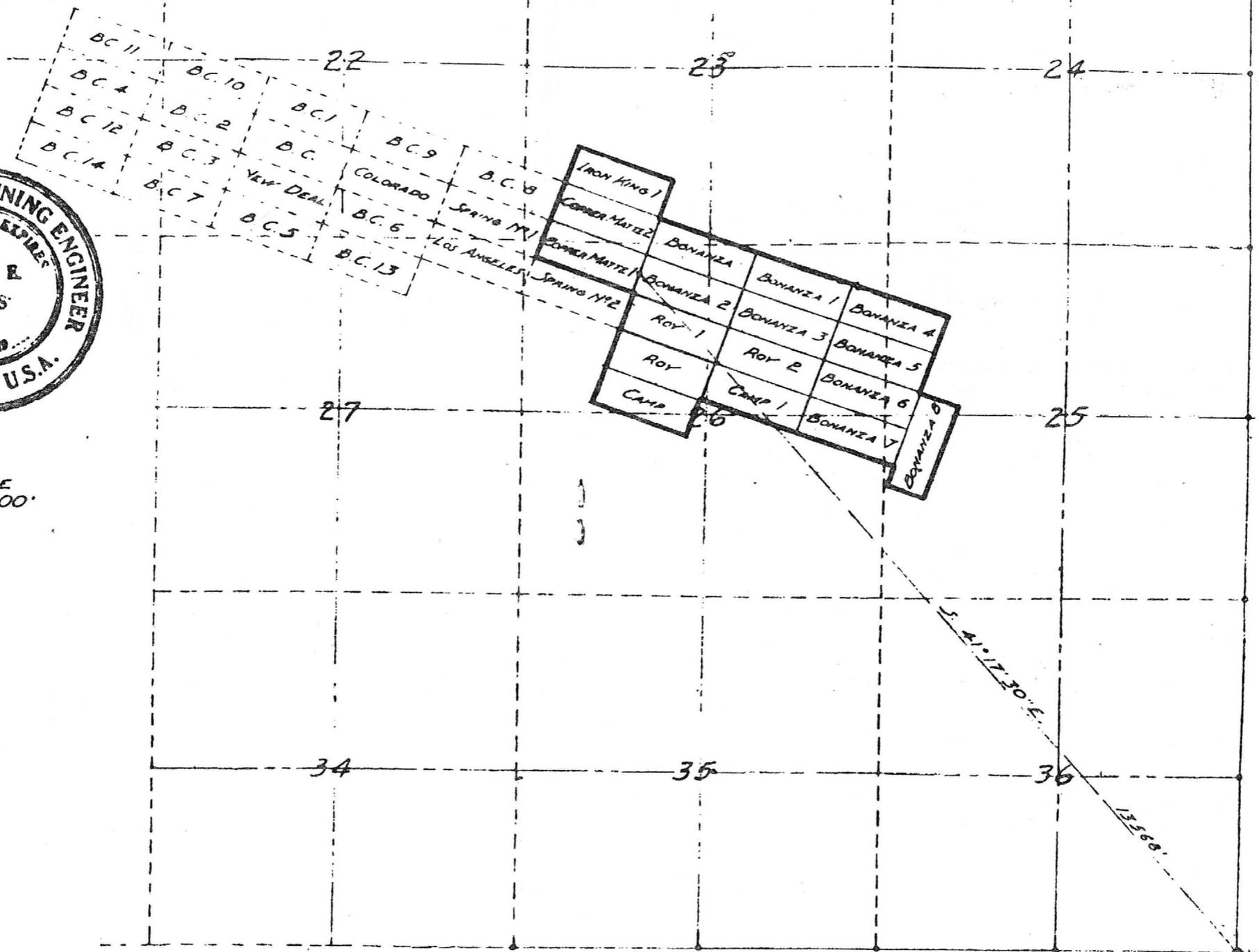
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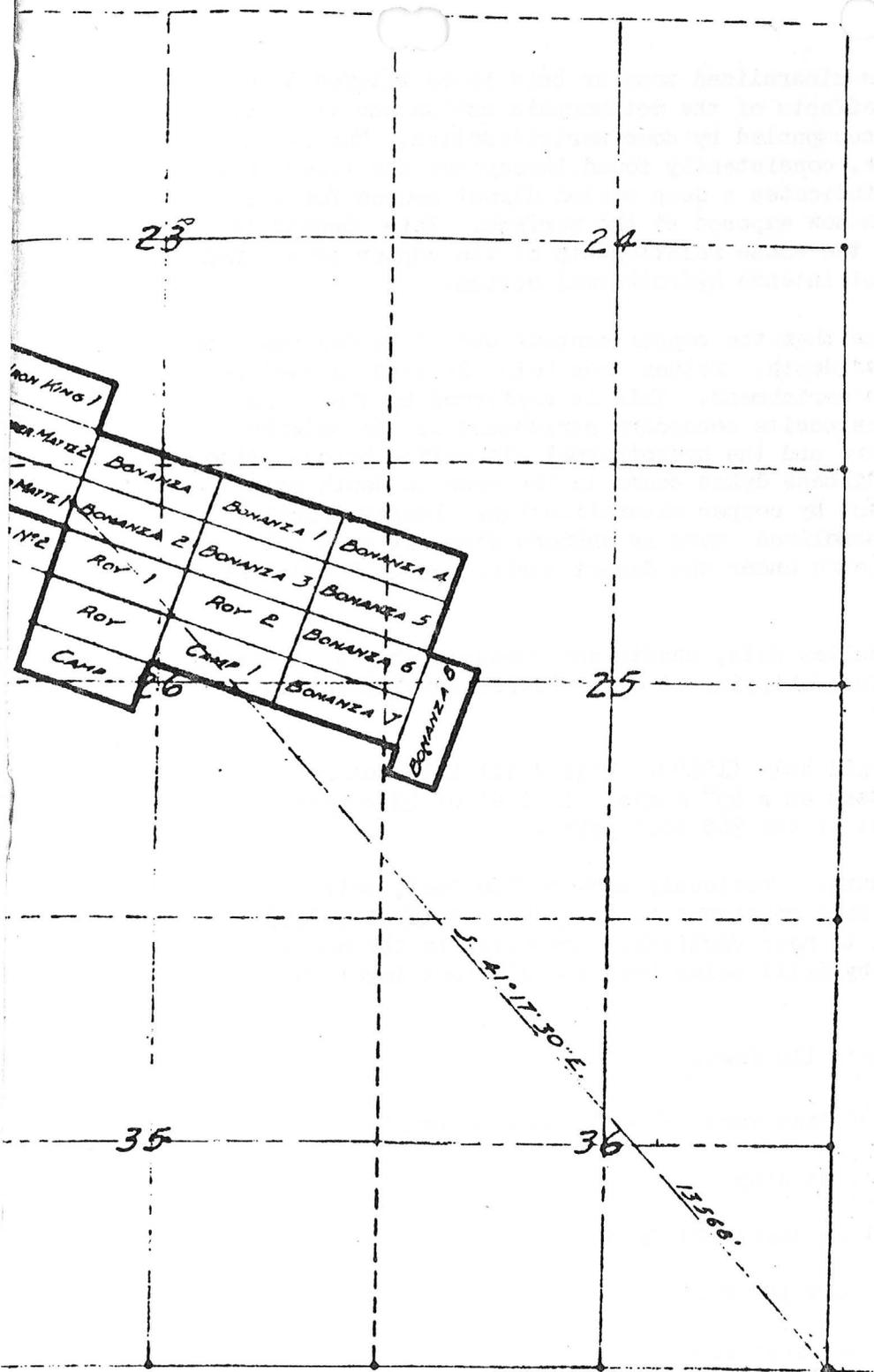
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SCALE  
1" = 200'



LOCATION IN T. 7 N. R. 13 W. UNSURVEYED  
SCALE - 1" = 2000'



N. R. 13 W. UNSURVEYED  
 SCALE - 1" = 2000'

(13)

The host rock in this mineralized zone or belt is an altered true granite showing the effects of the metamorphic action and the hydrothermal alteration accompanied by some sericitization. The magnitude of these effects, consistently found throughout the 1,000 foot by three mile zone, indicates a deep seated direct source for the copper mineralization now exposed at the surface. This concept is further indicated by the close relationship of the copper ores mined with the areas of most intense hydrothermal action.

These factors indicate that the copper content should be the same, or better, with increased depth; rather than being limited to surface erosion and oxidation enrichment. This is confirmed by the close association of the chalcocite secondary enrichment of the primary chalcopyrite copper ore and the hydrothermal alteration halos. Also, the leaching of the diabase dykes seems to increase in depth associated with replacement by copper mineralization. Longitudinally, the extent of the mineralized zone is unknown since it does not terminate, but disappears under the desert surface on both sides of the range.

Development: Many shallow cuts, shafts and trenches show as a result of the extensive surface shipping of ore. Deeper development includes the following:

1. Diamond drill hole (1949). This drill hole was run 745 feet deep on a 65° angle. 14 feet of 4% copper ore was cut at the 360 foot point.
2. Bonanza shaft. Previously sunk to 250 feet, this shaft has been continued to the 325 foot level (1949) and turned to near vertical. Ore shows in the shaft or is cut by drill holes from the 250 foot level to the bottom.
3. Molina shaft 110 feet.
4. Roy shaft 65 feet vertical - 70 foot crosscut.
5. Roy #2 50 feet deep.
6. New Deal claim shaft 100 feet.
7. Shaft on summit 100 feet.
8. Roy tunnel 300 feet long.
9. Lower tunnel summit 175 feet.
10. Upper tunnel summit 125 feet.

Required development: The proving of ore at depth is the most important development phase. Sinking of the Bonanza shaft should be carried out as a first objective, supplemented by deep diamond drilling. Sinking a thousand feet on this type of deposit is more important than drifting many times that footage above the bottom level of the shaft.

At 500 feet, or better at the 1,000 foot level if possible, the dyke system should be crosscut to determine the relative degrees of alteration in the individual dykes; together with copper content. This data should control drifting development plans.

The most logical development of the higher Bonanza Central group can be done most effectively by drifting from the Bonanza shaft at depth on an ore bearing dyke and then raising to the surface at a point in ore. It should be noted that this would make a considerable amount of broken surface ore economic by elimination of the too costly pack operation now necessary.

Water supply: Water is not available at the mine site, but ample quantities are obtainable for any size operation at not more than a seven mile distance and can be piped.

Power: Electricity and a natural gas supply line are both located approximately three miles from the mine assuring adequate power as required.

Equipment: Present equipment is limited to a prospect type hoist, headframe and compressor connected for sinking operations at the Bonanza shaft. Associated blacksmith equipment is installed.

Mill Tests: Past production of shipping grade smelter ore has shown it to be highly desirable and often subject to bonus payments.

Costs: Based on past production records the total mining, milling and smelting costs should not exceed \$12 per ton.

Freight facilities: Truck haul eight miles to railroad. Railroad rate \$2.20 per ton to Clarkdale smelter; \$3.50 per ton to Hayden, Arizona. Both are copper smelters.

Living accommodations: None at mine. Ample quarters and meals at Wenden.

Timber and vegetation: None.

Financial statement: Registered Arizona corporations; data on file as required.

Titles: Government location claims (36). All filing and assessment requirements complied with.

Maps and reports: Claims maps in preparation by registered Arizona state surveyor. No previous mine reports known.

The above described combined mining property was visited last month and found to be a very promising type of copper deposit from the viewpoint of structural factors as outlined and the past production record under a single family ownership through the past fifty years. This record is particularly interesting in view of the many surface ore outcrops shipped and the meager development conducted throughout the whole period of ore shipping. Development at depth is fully

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warranted and has exceptional production potentialities.

Respectfully submitted,

(Signed) R. BURTON ROSE

R. Burton Rose, M. A.  
Mining Geologist

Dated: May 20, 1949

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RESUME OF PROFESSIONAL BACKGROUND AND EXPERIENCE  
OF  
EDWIN WALTER MILLS, REGISTERED MINING ENGINEER  
SALOME, ARIZONA

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Mr. Mills is a graduate of Lawrence Scientific School, Harvard University, Cambridge, Massachusetts, class of 1902. After graduation he took a position with Oriental Consolidated Mining Company which operated mines in Korea. This firm held a concession in northern Korea of 500 square miles granted them by the Korean Government. Mr. Mills went to Korea where he served his apprenticeship and obtained valuable, practical mining experience. Eventually he became superintendent of one of the five camps on the concession, namely the Taracol Camp.

Subsequently he went to work at the Chiksan concession, Fifty-four (54) miles south of Seoul as exploration superintendent. The Chiksan mine was operated by Americans living in Kobe, Japan. Mr. Mills worked there two years and helped develop the Sandgek.

In 1910, in the course of his business, he met Mr. Herbert Hoover and Mr. Lindon Bates, a very famous civil engineer who had contacted Mr. Mills on behalf of the Anglo Continental Mining Company of London, and retained him to examine properties in Northern Korea and Japan. Thereafter, he spent many years in Japan and China, mostly in Honshu and Kyushu.

Mr. Mills developed what is known as the Tulumchung in north central Korea which was on a concession of 240 square miles. He served as consulting engineer for the Warlord of Manchuria.

1916  
In ~~1916~~, after a nine-month stay in the United States, Mr. Mills joined the staff of Naval Attache at Peking. He then went to Vladivostok to make an examination of the famous lead-zinc mines worked by the Germans prior to the war at Tetyukhe, Twenty-four (24) miles inland. Mr. Mills has served as exploration superintendent of the Suang Mining Company which had its offices in London. He has had Forty-seven (47) years experience in mining. He has written papers for the London Mining Journal and for the Royal Asiatic Institute in London.

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The BONANZA and the BONANZA CENTRAL MINES are mining ventures of unusual merit and possibilities, and offer definitely the prospect of becoming large producers of commercial copper-gold ores.

Full and clear vision is necessary to properly evaluate all of the commercial advantages accruing to the credit of the BONANZA and BONANZA CENTRAL MINES, AND THESE ARE PRIMARILY DUE to their favorable geological, topographical and climatic setup.

RECOMMENDATIONS: The most important phase of development is the proving of ore in depth. Hence the necessity of sinking the BONANZA SHAFT to a depth of 1,000 feet, and cutting out a station on the 500-foot level, so that crosscuts can be run from this station to both the hangingwall and the footwall of the system of diabase dykes. Lay out plans for drifts and crosscuts on this 500-foot level to provide for the mining of copper-gold ores for shipment to the smelter, while the work of sinking the BONANZA SHAFT to a depth of 1,000 feet is progressing.

In due course have milling and metallurgical tests run for the purpose of working out a proper flow-sheet for the treatment of the ores mined. It would also be advisable to have thorough metallurgical tests made regarding the recovery of the titanium contained in the diabase dykes.

It is also well worthwhile to make plans for the construction of a good milling plant and reduction works, so that the copper-gold ores can be treated more economically than being shipped to a smelter for treatment, and thus saving considerable expense.

Respectfully submitted,

(Signed) EDWIN WALTER MILLS  
Edwin Walter Mills,  
Consulting Mining Engineer

Salome, Arizona  
May 31, 1949

(Seal):  
Registered Mining Engineer  
Arizona, U. S. A.  
Edwin W. Mills  
Certificate expires: Dec. 31, 1949

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Mr. Roy R. MacDonald, President  
Bonanza Mining Company  
Wenden, Arizona

Dear Sir:

Attached hereto is the Balance Sheet of Bonanza Mining Company as at April 30, 1949. This statement has been prepared from the records of the company without outside verification; however, bank accounts were reconciled, and stock records inspected as part of our work in maintaining the records of the company.

As shown by the Balance Sheet, all costs of organization and operation have been treated as developmental costs and will continue to be

DEVELOPMENT WORK: Other than the many shafts, trenches, and shallow cuts, from which ore was mined and shipped in the early days, there are also the following deeper workings:

1. Diamond Drill Hole (1949), drilled to a depth of 745 feet at an angle of 65 degrees. (f 360 feet).
2. Bonanza Shaft: This shaft previously sunk to a depth of 250 feet, but to this date in 1949 the sinking has been continued to a depth of 325 feet. At this depth the shaft is nearly vertical. Ore shows in the shaft and has also been cut by drill holes from the 250' level to the shaft bottom.
3. Mollina Shaft: 110 feet in depth.
4. Roy Shaft: 65 feet vertical depth, and 70 foot crosscut.
5. Roy Shaft #2: 50 feet in depth.
6. New Deal Claim Shaft: 100 feet in depth.
7. Summit Shaft: 100 feet in depth.
8. Roy Tunnel: 300 feet in length.
9. Summit Lower Tunnel: 175 feet in length.
10. Summit Upper Tunnel: 125 feet in length.

CONCLUSIONS: The results of the exploration work thus far indicate strongly the existence of a deep-seated large body of copper-gold ores of commercial value, within this well-mineralized zone approximately 1,000 feet in width, with a length of three miles.

It will not require much more work in the BONANZA SHAFT to get the necessary workings in such shape that copper ores can be mined for shipment to the smelter. Strong indications point to the definite development of a large tonnage of commercial ore also for mining and milling operations.

The climatic conditions are very favorable for year-round mining and milling operations.

The mining claims are readily accessible by a good dirt road, 7-3/4 miles long, connecting with U. S. Highway 60, and the Santa Fe Railway, at Wenden.

Good transportation facilities are afforded by both U. S. Highway 60 and the Santa Fe Railway.

Sufficient electric and gas power, and water can be made available for all requirements.

(17)

content of 0.1% to ...% of titanium, per ton. This warrant thorough testing to determine whether or not this titanium content can be recovered as a profitable by-product. The outlook is favorable for doing so.

ASSAYS: During this year, 1949, ore samples were taken during the sinking of the BONANZA SHAFT which showed the following values:

<u>Assay No.</u>	<u>Shaft Depth</u>	<u>Silver Oz. Per Ton</u>	<u>Gold Per Ton</u>	<u>Copper Percent Per Ton</u>
526 Bo.	255'	Trace	0.02	5.03
532 Bo.	260'	0.2	0.03	8.73
528 Bo.	262'	Trace	0.01	6.37
527 Bo.	267'	0.1	0.02	10.06
540 Bo.	271'	4.7	0.02	7.14
533 Bo.	273'	0.2	0.08	14.18
533 Bo.	278'	0.1	0.04	17.42

Inasmuch as all of the old mine records were destroyed by fire a number of years ago, it is not possible to give any detailed assays of the ore shipments made by the various leasers and the owner of these mining claims. However, there is a copy of an ore shipment made to the Miami Plant, International Smelting and Refining Company, dated Spt. 1, 1936, designated as Smelter Lot 8691, of 13.8435 dry tons of copper-gold ore which assayed, as follows: Copper 6.77%, Silver 0.17 oz. and Gold 0.69 oz., per ton.

ORE ESTIMATE: Although there are many shallow cuts, shafts and trenches that produced shipping ore in the early days, there was not sufficient development work done to make reasonably accurate estimates of Positive and Probable Ore Reserves. It may be stated, however, that with the further development work to be done in the sinking of the BONANZA SHAFT, with levels, crosscuts and drifts and raises, very favorable geological conditions exist that will certainly ensure the development of a very large tonnage of Positive and Probable Ores.

OPERATING COSTS: Operating costs will vary according to the plan of treatment, that is: Milling or smelting operations. Until a definite plan has been worked out by tests for an efficient milling flow-sheet, no definite costs can be quoted at this time. Smelting costs may also vary according to trucking, freight and smelter charges.

WATER AND POWER: There is no water available on the mining claims, but an ample supply can be obtained in the vicinity of Wenden, about seven miles distant, which can be piped to the desired place to be used.

Electric power and natural gas lines are both located within three miles of the mining claims, and adequate power can be obtained at very reasonable rates.

He is a fellow of the Royal Asiatic Society and has been a fellow of the Royal Geographical Society. He is a member of the American Institute of Mining Engineers.

At the present time, Mr. Mills is Vice Chairman of the Board of Governors of the Department of Mineral Resources of the State of Arizona and Chairman of the Ellsworth Council of the Arizona Small Mine Operators Association.

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Edwin Walter Mills  
Consulting Mining Engineer

BRIEF REPORT ON THE BONANZA AND BONANZA CENTRAL MINES

Yuma County, Arizona

GENERAL: The BONANZA MINE group comprises 17 contiguous mining claims, and the BONANZA CENTRAL MINE group comprises 19 contiguous mining claims adjoining the BONANZA MINE group, making a combined total of 36 mining claims, with a total of 720 acres. This area covers the major portion of the mineralized zone which is approximately 1,000 feet in width and three miles in length.

These two groups of mining claims are located in northern Yuma County, in the Ellsworth Mining District, about 7-3/4 miles northwesterly from the Town of Wenden on U. S. Highway 60, in Township 7 North, Range 13 West, Gila and Salt River Base and Meridian.

GEOLOGY: The geology of this area is primarily Pre-Cambrian schist and granite which is traversed by a mineralized zone in a North 70° West direction. The host rock is a highly altered granite which extends throughout this mineralized zone. This zone contains at least 19 more or less parallel diabase dykes with approximately the same northwesterly strike of 70 degrees. In depth these diabase dykes are nearly vertical and would seem to indicate favorable ore deposition in depth, even better than shown in the surface workings.

ORE OCCURRENCE AND MINERALIZATION: Copper sulphide ores, showing considerable secondary enrichment in the form of chalcocite which has replaced the original chalcopyrite. The vein material is highly oxidized, both on the surface and in the deepest workings. These ore occurrences are parallel to and also replace the numerous diabase dykes which traverse these groups of mining claims.

The average copper-content is relatively high; gold is also associated with the copper, and the gold-content ranges from small amounts to over one ounce per ton of ore.

Typical ore samples have shown total assay values ranging from \$38.00 to \$118.00 per ton.

Of great importance has been the discovery of the occurrence of titanium in the diabase dykes. Preliminary analyses have shown a

so considered until the mine reaches a stage of commercial production.  
All the items in this category are reflected on a cash basis.

Respectfully,

CARSON, WALMSLEY AND HENRY,

BY: (Signed) MARVIN HENRY  
Marvin Henry,  
Certified Public Accountant

Phoenix, Arizona  
June 7, 1949

BONANZA MINING COMPANY

Wenden, Arizona

BALANCE SHEET

APRIL 30, 1949

ASSETS

<u>Cash in Bank:</u>		\$	320.90
<u>Accounts Receivable:</u> (Due from Stockholders)			89.75
<u>Notes Receivable:</u> (Stock Subscription)			1,000.00
<u>Equipment:</u>			
Chevrolet Car	\$	225.00	
Office Equipment		109.38	
Mine Equipment		<u>244.66</u>	579.04
<u>*Mineral Deposit:</u>			520,000.00
<u>Development Costs:</u>			
Travel		1,438.43	
Test Drilling		4,449.50	
Organization and legal expense		2,556.44	
Office Expense		66.60	
Salaries and Wages		7,077.73	
Mine Road		143.00	
Water Hauling		244.73	
Equipment Rent		1,620.00	
Mine Supplies, Repairs, Gas and Oil		2,021.39	
Hauling and Freight		112.12	
Insurance		164.17	
Capital Stock Taxes		612.70	
Assaying		17.50	
Stock Commissions		160.00	
Telephone		158.87	
Accounting		37.50	
Payroll Taxes and Miscellaneous		<u>24.77</u>	
			<u>20,905.45</u>
		\$	<u>542,895.14</u>

(21)

LIABILITIES AND CAPITAL

Liabilities:

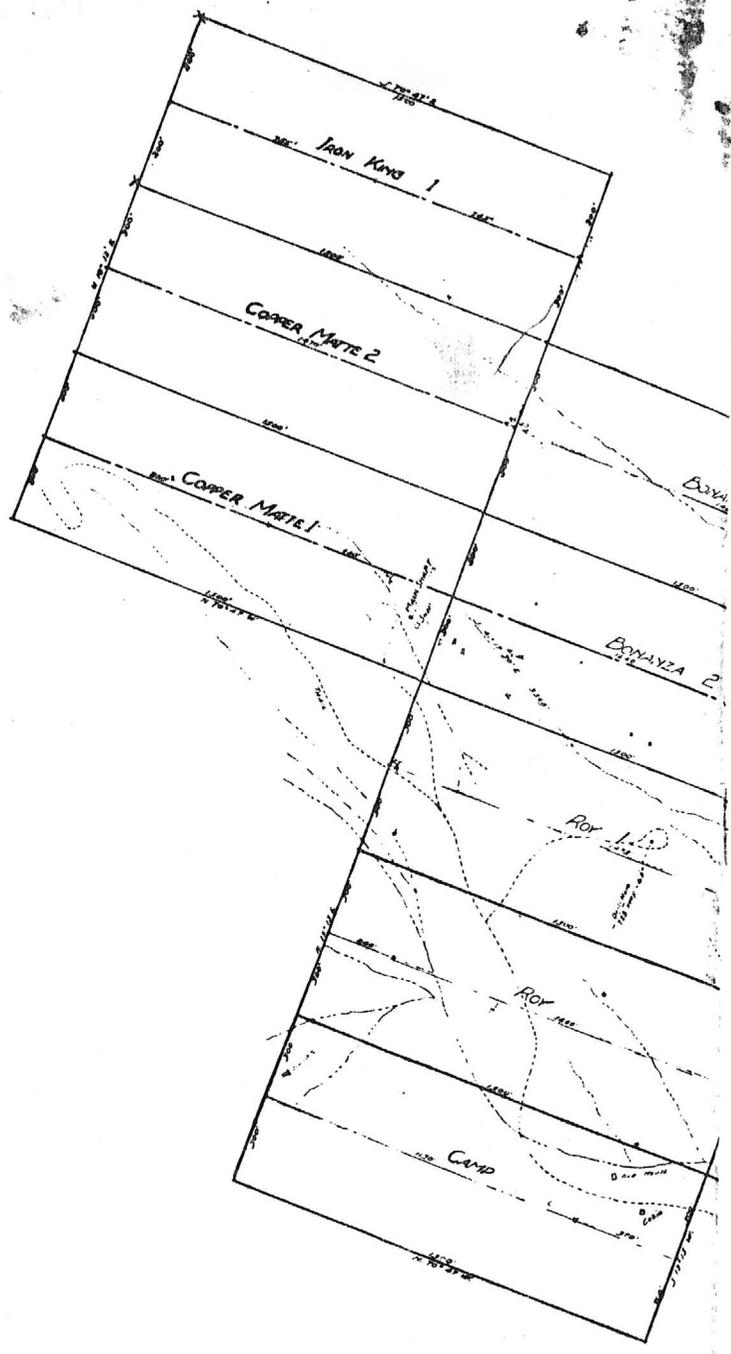
Loans Payable to Stockholders	2,000.00	
Employees W. H. Tax	215.40	
Accrued Payroll Taxes	<u>24.74</u>	\$ 2,240.14

Capital:

Capital Stock (Authorized 1,000,000 Shares Par Value \$1.00)		
Issued and Out- standing -	538,920.00	
Subscribed but not Issued -	<u>1,000.00</u>	539,920.00
Paid in Surplus	<u>735.00</u>	<u>540,655.00</u>
<b>TOTAL LIABILITIES AND CAPITAL</b>		<u><u>\$ 542,895.14</u></u>

\*Acquired through issue of this  
amount of stock at par value.

MEMORANDUM



-MEMORANDA-

Bonanza Mine  
Salome 15' (Sec. 26, T. 7N., R. 13W.)  
Yuma County

Reference: Arizona Dept. of Mineral Resources  
Yuma County (file) Bonanza Mine

present owner: Bonanza Mining Co., 1801 E. Thomas,  
Phoenix, Az. (1952 information)

history of the mine:

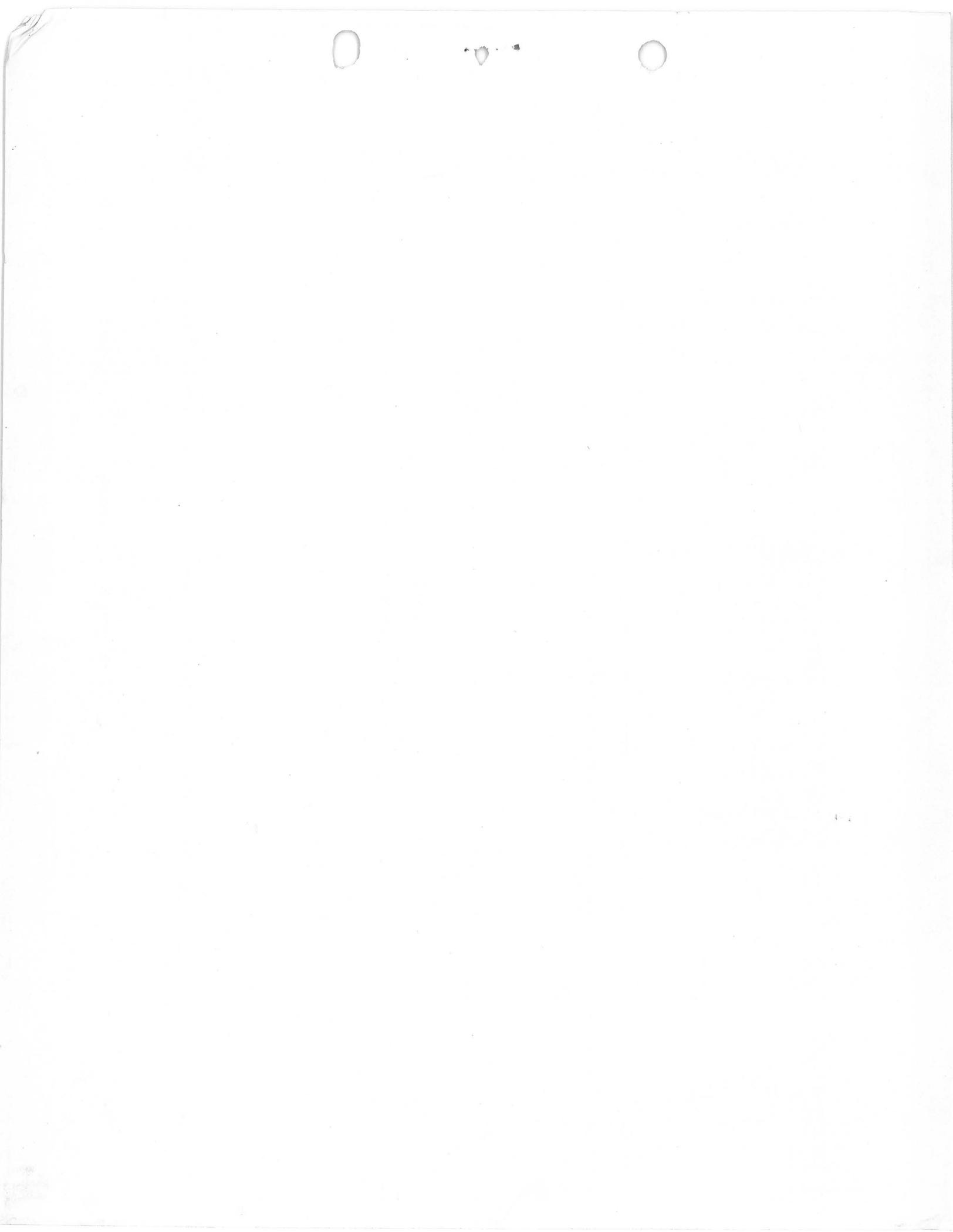
Bonanza Mining Company began mining copper from the Bonanza mine in 1949. At that time the ore assayed as high as \$81 a ton, and averaged at \$38 a ton. Percentage of ore ranges from 4% to 17% in the outcroppings.

geology:

There is a zone of parallel and remarkably persistent diabase dikes (at least 8) in a shear zone in gneiss. The dikes contain veins which are parallel to the dikes and dip steeply to the east. The original mineralization was chalcopryite and silica. Alteration of the chalcopryite to oxides with some nuggets of chalcopryite occurs at the surface.

claims:

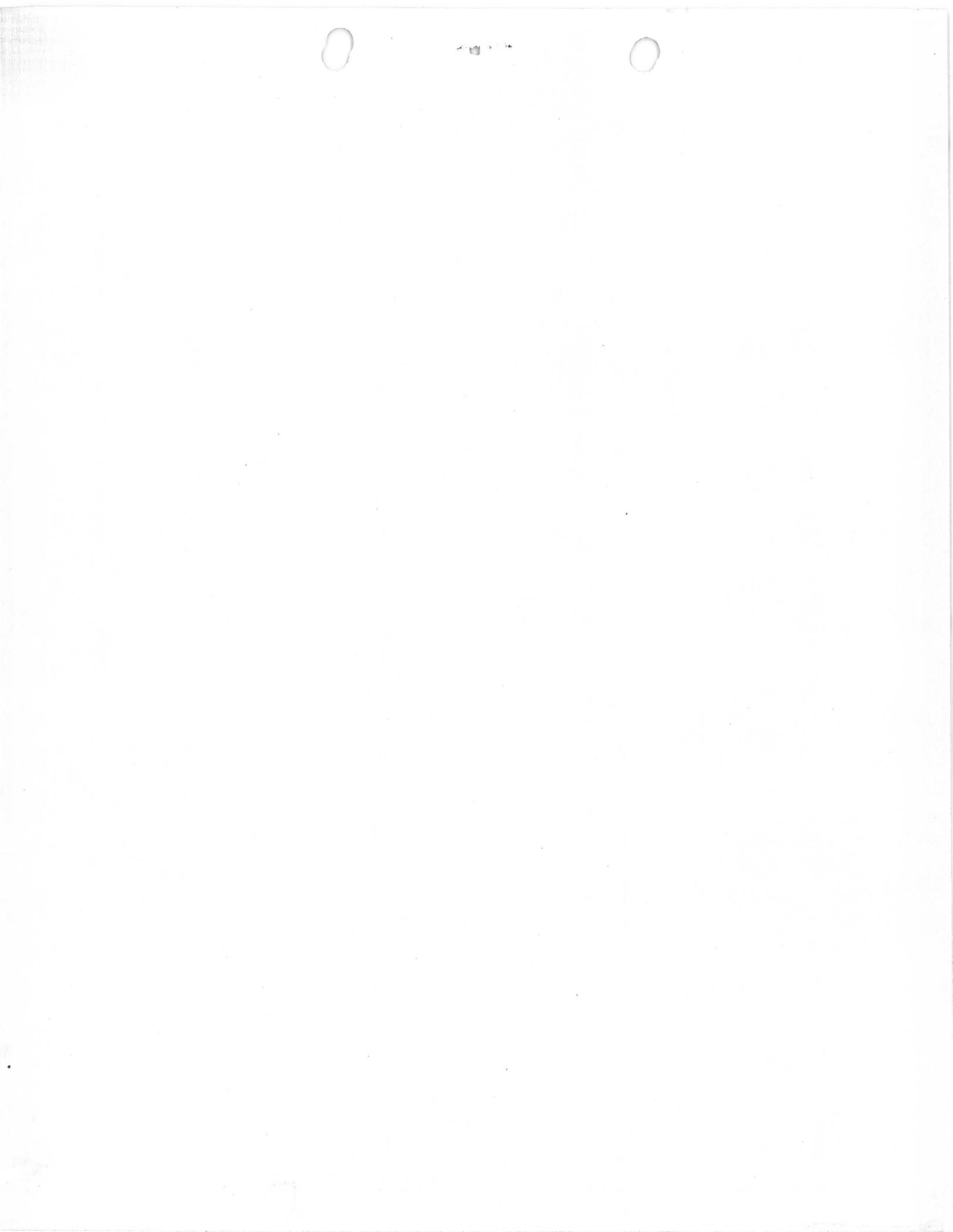
There are two groups of continuous unpatented claims. The southern half known as the Bonanza Mining Company consists of 31 claims. Very little surface work has been done on these claims. Most



Bonanza Mine (cont.)

work is done from the shaft.

The northern group incorporates 36 claims under the name of the Bonanza Central Mining Co. This area has been worked profitably on the surface in the past.



DEPARTMENT OF MINERAL RESOURCES

State of Arizona

MINE OWNER'S REPORT

MB-79

Date: March 13, 1942

1. Mine: BONANZA GROUP
2. 8 miles north from Wenden, Arizona.
3. Mining District & County: Ellsworth  
Mining District, Yuma County, Arizona.
4. Former Name:
5. Owner: R. R. MacDonald
6. Address (Owner): 1315 West  
Jefferson St., Phoenix, Arizona.
7. Operator:
8. Address (Operator):
9. President, Owning Co:
- 9A. President, Operating Co:
10. Gen. Mgr:
14. Principal Minerals: Copper & Gold.
11. Mine Supt:
15. Production Rate:
12. Mill Supt:
16. Mill - Type & Cap:
13. Men Employed:
17. Power - Amt. & Type:

BONANZA GROUP

Cu, Au

Yuma

14 - 2

T 7 N, R 15 W

R. R. MacDonald, Wenden

18. Operations - Present:

19. Operations - Planned:

20. Number Claims, Title, etc: 6 claims, title by location since 1900.

21. Description - Topography & Geography: This property is at the base of Harcovar Mountain; elevation 2400 feet. No hills to climb or steep grades.

22. Mine Workings - Amt. & Condition: 1 shaft - 200 ft. incline; about 350 ft. of drifting from 110 ft. level; 25 ft. crosscutting at the 200; has a series of shafts and open cuts ranging from 10 ft. to 65 ft. on the different claims.

(over)

1850  
5  
2315

MB-79

23. Geology & Mineralization: Contact vein and diabase and dolomite dikes. It is igneous rock, sulphide ore.

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

24A. Dimensions and Value of Ore body: The veins vary in sizes from 1 ft. to 5 ft. Runs from 5% to 10% and 12% copper and \$5.00 to \$17.00 gold. There is a 65 ft. vertical shaft that was sampled that ran 4 1/2% copper - \$5.00 gold for a width of 14 ft. This is on the Ray Claim in the group.

25. Mine, Mill Equipment and Flow-Sheet:

26. Road Conditions, Route: Good road year around. Route: 8 miles northerly direction from Wenden, Arizona, shipping point.

27. Water Supply: No water developed at mine.

28. Brief History: This property has shipped 100 tons or more, but mostly development work was being done.

29. Special Problems, Reports Filed:

30. Remarks: Good living conditions - House, blacksmith shop, gallows frame, ladders and skids in 200 foot shaft in first class condition.

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

Price \$10,000.00; three year lease and option to buy - payments \$100.00 a month and 10% royalty on all ores shipped or milled. All payments and royalty to be applied on purchase price - \$10,000.00 to be paid in full on or before expiration of lease.

32. Signature: (Signed) ROBERT R. MacDONALD  
1315 West Jefferson Street,  
Phoenix, Arizona

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
MINE OWNER'S REPORT

DEPT. MINERALS & GEOLOGY  
RECEIVED  
MAR 16 1942  
PHOENIX, ARIZONA

MB-79

Date Mar 13, 1942

- 1. Mine *Bonanza Group*
- 2. Location *at base of Harcuvar Mt 8 miles northerly direction from Menden Arizona*
- 3. Mining District & County *Elesworth dist Yuma Co*
- 4. Former name
- 5. Owner *R. R. Mac Dunsed*
- 6. Address (Owner) *135 N Jefferson St Phoenix Arizona*
- 7. Operator
- 8. Address (Operator) *105 So. 14th Ave. 5-6-42*
- 9. President, Owning Co.
- 9A. President, Operating Co.
- 10. Gen. Mgr.
- 14. Principal Minerals *Copper & Gold*
- 11. Mine Supt.
- 15. Production Rate
- 12. Mill Supt.
- 16. Mill: Type & Cap.
- 13. Men Employed
- 17. Power: Amt. & Type
- 18. Operations: Present

19. Operations: Planned

20. Number Claims, Title, etc. *6 Claims, Title by location since 1900*

21. Description: Topography & Geography *This is <sup>property</sup> at the base of Harcuvar Mt elevation 2400 ft. No hills to climb or steep grades.*

22. Mine Workings: Amt. & Condition *1 shaft 200 ft incline, about 350 ft of drifting from 110 ft <sup>level</sup> 25-ft cross cutting at the 200. Has a series of shafts and open cuts ranging from 10 ft to 65 ft, on the different claims*

(over)

23. Geology & Mineralization *Cont. vein + diabase + dolomite dikes*  
*It is igneous rock, sulphide ore.*

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

24A. Dimensions and Value of Ore body *The veins vary in sizes from 1ft to 5ft*  
*Runs from 5% to 10 + 12% Copper + 5.00 to \$7.00 Gold*  
*There is a 65 ft vertical shaft that was sampled that had 4 1/2% Copper + 5.00 Gold for*  
*a width of 14 ft. This is on the Roy claim in the group*

25. Mine, Mill Equipment & Flow-Sheet

26. Road Conditions, Route *Good road year around, Route 8 miles northwily*  
*direction from Menden Arizona, shipping point.*

27. Water Supply *No water developed at mine*

28. Brief History *This property has shipped 100 tons or more*  
*but mostly development work was being done.*

29. Special Problems, Reports Filed

30. Remarks *Good living conditions house, Blacksmith shop*  
*galvanic frame - Ladders + skids in 200 foot shaft in*  
*first class condition*

31. If property for sale: Price, terms and address to negotiate. *Price \$10,000, three yr lease*  
*+ option to buy. Payments \$100.00 a month + 10% royalty on*  
*all ore shipped or milled. All payments + Royalty to be appraised on*  
*purchase price of \$10,000 to be paid in full on or before expiration of lease.*

32. Signature *Robert Thomas Donald*

33. Use additional sheets if necessary.