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XXXXXXXXXXXXXXXXXXXX  
XXXXXXXXXXXXXXXXXXXX  
XXXXXXXXXXXXXXXXXXXX

December 1, 1973

Letter of Certification

I, Richard E. Mieritz, of 1634 W. Hazelwood Street, #2, Phoenix, Maricopa County, Arizona, does hereby certify that:

- (1) I am a mining engineer, graduated from the University of Wisconsin with the degree of Bachelor of Science in 1939.
- (2) I have practised my profession continuously since then, receiving my Arizona State Registration as a Mining Engineer in 1956 and my Arizona State Registration as a Geologist in 1970, being a member in good standing.
- (3) The report to which this letter is attached and part of, has been prepared on the basis of personal observations on and of the property on November 26, 1973, on the writers general geologic knowledge of the area and on the review and study of available factual data of others.
- (4) I have no direct nor indirect interest in the property.
- (5) I have no direct nor indirect interest, nor do I expect to receive any interest, direct or indirect in the properties or the securities of Silver Exploration Co., Phoenix, Arizona or its affiliates.

Respectfully submitted,

Richard E. Mieritz,  
Mining Consultant  
Phoenix, Arizona.

(AG.602, 277-6053)

**A**  
**GEOLOGICAL EVALUATION**

**and**

**EXPLORATION**

**REPORT**

**on the**

**MOORE PATENTED CLAIMS**

**Flomosa Mining District**

**in**

**Yuma County, Arizona**

**by**

**Richard E. Meritts**  
**Mining Consultant**  
**Phoenix, Arizona**

**December 1, 1973**

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INCLUDED MAPS

- Map No. 1 - REGIONAL GEOLOGY & INDEX MAP, Portion of Yuma County, Ariz.
- Map No. 2 - CLAIM MAP, Moore Patented Claims.
- Map No. 3 - SURFACE GEOLOGY MAP, Portion of Moore Claims.

## INTRODUCTION:

~~Silver Exploration Co., Phoenix, Arizona~~ requested and authorized the writer to field examine and prepare a geologic evaluation and exploration report on the Moore group of patented claims located southwest of Hope, Arizona in the New Water Mountain range in Yuma County, Arizona.

A field examination was completed on November 26, 1973 by the writer accompanied by Messrs. Chris Mueller, co-owner of the property, and ~~Richard Smith, agent for the property.~~

This report, herewith prepared and presented by the writer is based on the physical field examination, a study and review of factual data available as a surface geologic map prepared in 1959 by Peter Joralemon and Tiber Klebusicky for Bunker Hill Mining Co. and Bureau of Land Management (B. L. M.) survey of the claims.

## PROPERTY, LOCATION and ACCESSIBILITY:

The property consists of 23 lode mining claims known as the Moore No. 1, 2, 3, 4, 5, 7, 8, 9, 10, 11, 13, 14, 15, 16, 20, 21, 26, 27, 31, 32, 33, 34 and 49. (See Map No. 2). These claims are covered by Mineral Survey #3207 of October 9, 1915. The survey plat indicates their position as being approximately in Sections 10, 11, 14 and 15 of T. 3 N., R. 16 W., G. & S. R. B. & M., Florence Mining District, Yuma County, Arizona.

The writer is of the opinion that the claims are in Sections 9, 10, 15 and 16 due to a later date correction of almost one mile eastward in the Range line between T. 4 N. and T. 5 N. in this area. At the time of the mineral survey, the territory was unsurveyed. Total claimed-deeded acreage is 475.007 acres.

Travel to the property can be made by automobile if one is careful in some of the gravel washes the mine access road traverses within the property. From Phoenix take U. S. Highway 60 westward toward California passing through the Arizona towns of Wickenburg, Aguilla, Wenden, Salome and Hope. (A service station and junction with State Route 72). From this point, continue west on U. S. 60 for 8.6 miles to a gate in the highway right-of-way fence on the left or south side of route 60 and a due south gravel road. Travel south on this road (through gate) for 0.7 miles to the co-owners mobile home and his leach and electrolytic deposition refining operation. From this point, a frequent travelled County maintained gravel road leads southwest - through an underpass for I-10 (3.4 miles distant) to the property and in particular the production Pit which is 8.0 miles by road from the owners base of operation. (See Map No. 1).

## FACILITIES:

No facilities, gas, electricity or water are available at the property. With the property in the east foothills of the New Water range, water could be developed in the valley gravels to the east. In fact, Mr. Mueller has a 50 acre mill site in Sec. 36, T. 4 N., R. 16 W., adjacent to

and south of Highway I-10 (Branda cutoff). A ranchers well, very near the NW corner of the Mill Site is 800 feet deep, water stands at 135 feet, and the supply appears to be abundant.

Mr. Mueller also has 40 patented acres in Sec. 13 of T. 4 N., R. 16 W., on which he has his copper leach operation and electrolytic deposition operation and his water supply is a 485 foot well with water standing at 135 feet. He generates his own electricity for the operation.

Electricity is about 6 miles distant from the mine property.

#### HISTORY, DEVELOPMENT and PRODUCTION:

Initially the property was claimed and patented for gold in 1915 and earlier. From that date to perhaps the early fifties, the usual "scratching" around was done. In 1959, Bunker Hill Mining Co. acquired the property and drilled three diamond drill holes (See Map No. 3). Their objective was copper sulphides at depth. As in many instances, the factual data of such drilling is not available. Mr. Mueller was not co-owner of the property at that time, and the assay drilling information was not passed on to him when he became co-owner.

Production-wise, no shipments have been made from the property nor are there any records that shipments were made. The only production coming from the property is Mr. Muellers operation itself.

Mr. Mueller ships 99.9 to 99.95% copper anodes, mostly to the scrap dealers in Phoenix, Arizona where he is currently being paid 70 to 72 cents a pound of metal.

The co-owners operation is:

- (1) mines 2% plus copper ore from the large Pit, (averages 5 tons plus per day)
- (2) transports to his "home-mill site", about 8 miles.
- (3) leaches the ore in plastic sheet lined earth tanks using about 7 % acid strength and building the pregnant liquid to about 28-30 or more grams per liter, leach extraction about 95 to 98% with a very short retention time.
- (4) circulates the clear pregnant solution or liquor in tar lined concrete tanks, electro-winning the copper onto 36" by 36" starting sheets with D.C. electric current he produces from one diesel powered generator and,
- (5) plates out about 200 pounds of copper per day when the plant is in operation, which has a purity of 99.9 to 99.95% copper.

The electro-winning tank section capacity is 500 pounds of copper deposition per day. Mr. Mueller carries the operation forward by himself, mostly as experimental.

#### GENERAL GEOLOGY:

As can be seen on Map No. 1 - Regional Geology-Index Map - the general area

of the New Water mountains hosts many rock types of Laramide, Cretaceous, Mesozoic and Paleozoic ages - all of which are usually good host rocks for mineralization of one sort or another.

Locally, in the area of the property, the Map indicates a host rock of Cretaceous andesite (Ka), but the one inch to six mile scale does not permit the showing of the localized occurrences of other rock types within the property, but which is shown on Map No. 3, - Surface Geology Map. Map No. 3 was traced from a print of a Map geologized and prepared by Messrs. Peter Jerusalem and Tibor Klebusicky for Bunker Hill Mining Co. The map shows the surface geology of part of the property - the most interesting area as regards copper mineralization.

Three rock types and one mineral-rock type have been classified and mapped. The writer "feels" a difference of opinion for some of the rock classification (locally) but for the purpose of this report and until additional geological field mapping is completed, no changes will be made.

#### MINERALIZATION:

As Map No. 3 indicates, copper mineralization exists in the rhyolite, andesite and vesicular basalt on both sides of the major east-west trending fault which the writer believes to be the "mineralizer". According to voiced comments by others, this fault is traceable approximately 8 miles but not necessarily consistently mineralized for that length.

Field observation indicates to the writer a series of rhyolitic and andesitic flow layers which have a general southerly dip on both sides of the major fault. It also appears that a favorable horizon within the rhyolite and andesite was receptive to the copper mineralization which occurs most strongly on the eastern half of Moore No. 10 claim and the western half of Moore No. 15 claim and continuing on to the southeast portion of Moore No. 14 claim on both sides of the fault, (See Map No. 3).

Copper mineralization occurs mostly as malachite with some sporadically distributed azurite. A blue-green or green-blue mineral, resembling chrysocolla in color and texture, is a major presence mineral, same believed by the writer to be brochantite, copper sulfate-copper hydroxide, very easily leached mineral. In addition to the above copper minerals, cuprite, although difficult to distinguish or identify and usually passed off as limonite, is present in varying degrees and intensity.

Copper mineralization occurs "plastered" to rock fracture faces, as disseminations, as intercolic fillings in the breccia present in the area and as vesicular fillings in the basalt. It is likely distribution of mineralization, - area-wise - may vary from locality to locality, however, exposure of the rock 12 inches or more below the surface usually reveals the presence of copper minerals beneath an otherwise barren appearing rock surface of rhyolite, andesite or the vesicular basalt.

During the examination the writer took four samples, two of which were taken to demonstrate possible grade of the area and two purely as academic to indicate the presence of the indistinguishable mineral cuprite - *confused*

with limonite on examination. The descriptions of the samples and their results are:

Sample No.	Description	Copper Assay	
		Total - Cu <sub>2</sub> O	
1154	30 foot chip along face of 70 foot long Pit bank.	2.32%	1.96%
1155	Chips of various "dynamite shot" pits (9 inches deep) of otherwise "barren" surface. Some cuprite present - some green-blue color, estimated 0.7%	0.99%	0.77%
1156	Hand picked sample of cuprite (red-brown iron appearance) from heavy green colored Pit on claim No. 15. Little green-blue color in sample.	5.76%	
1157	6 foot chip sample from small surface pit 3 feet deep. Estimated 0.8%	1.26%	Mo. Tr.

Location of the samples are shown on Map No. 3. Assaying of these samples was completed by the Iron King Assay Office, -Walter Steller- Humboldt, Arizona.

Comparing the Total copper and oxide copper assays, it would appear that some sulphide copper may be present - however, the oxide copper assay method uses only one acid for a limited leach time - resulting in the fact that some of the "slower" dissolving minerals (chrysocolla, tenorite, etc.) may be present in minor amounts, thus, not appearing as an oxide assay.

Lack of the presence of iron minerals (residual limonites) indicates that oxide copper minerals will constitute the "whole" of the suspected ore deposit.

#### ORE RESERVES:

Since no results are available on the past development or exploration of the property and only very minor work has been completed as small surface pits, etc., the writer cannot justify an ore reserve except as indicated under the following caption - "Property Potential".

#### PROPERTY POTENTIAL:

Surface-wise, mineralization appears to be systematically and more or less evenly distributed in wide spread fashion and favors a particular horizon within the several host rocks.

The immediate potential of the property is a surface area approximately 300 to 400 feet wide and about 1200 feet long - using the large pit on claim No. 10 and the strongly mineralized smaller pit on claim No. 15 as a center line. The writer considers a depth of 100 feet to be a reasonable projection. These figures would indicate approximately a 3,000,000 ton "inference" and approximately 30,000 tons for each vertical foot be-

low the chosen 100 foot depth. This area then becomes a target of exploration.

EXPLORATION REQUIREMENTS - COSTS:

The envisioned program, aside from detailed geologic surface mapping and limited surface sampling, includes <sup>moderate</sup> close spaced percussion drilling in grid form at intervals of 100 feet paralleling the long dimension and 50 feet spacing paralleling the short width. Each longer line pattern should be "staggered" 50 feet, thus creating a "diamond" pattern over the rectangular shaped target.

With this designed plan of exploration in mind, the writer estimates the following cost budget for Phase I:

PHASE I:

Detailed surface geological mapping, 1 month, Fees and Expenses	\$ 2,800.-	2,000.-
Surface sampling, 400 samples @ \$15.00/sample, including labor and assaying.	\$ 6,000.-	8,000.-
70 Percussion drill holes @ 150 feet per hole, 10,500 feet @ \$12.00/ft. including sampling, assaying, personnel travel expenses.	\$ 126,000.-	45,000.-
Project Supervision, 4 months @ \$2,800.-/month, including Fees and Expenses	\$ 11,200.-	
Contingencies, overrun of work, underestimate.	\$ 14,000.-	10,000
<b>PHASE I total</b>	<b>\$ 160,000.-</b>	<b>65,000</b>

If Phase I is successful and the "inferred" potential is reclassified as "indicated" or "measured", then a Phase II should be implemented and carried forward by exploring both eastward and westward from the initial "block" by the taking of 800 surface samples, 100 percussion drill holes to the same 150 foot depth, and a program time consumption of 7 months. The cost budget for Phase II would approximate \$224,000.-.

*\$100,000 of mine results determining the expenditure.*

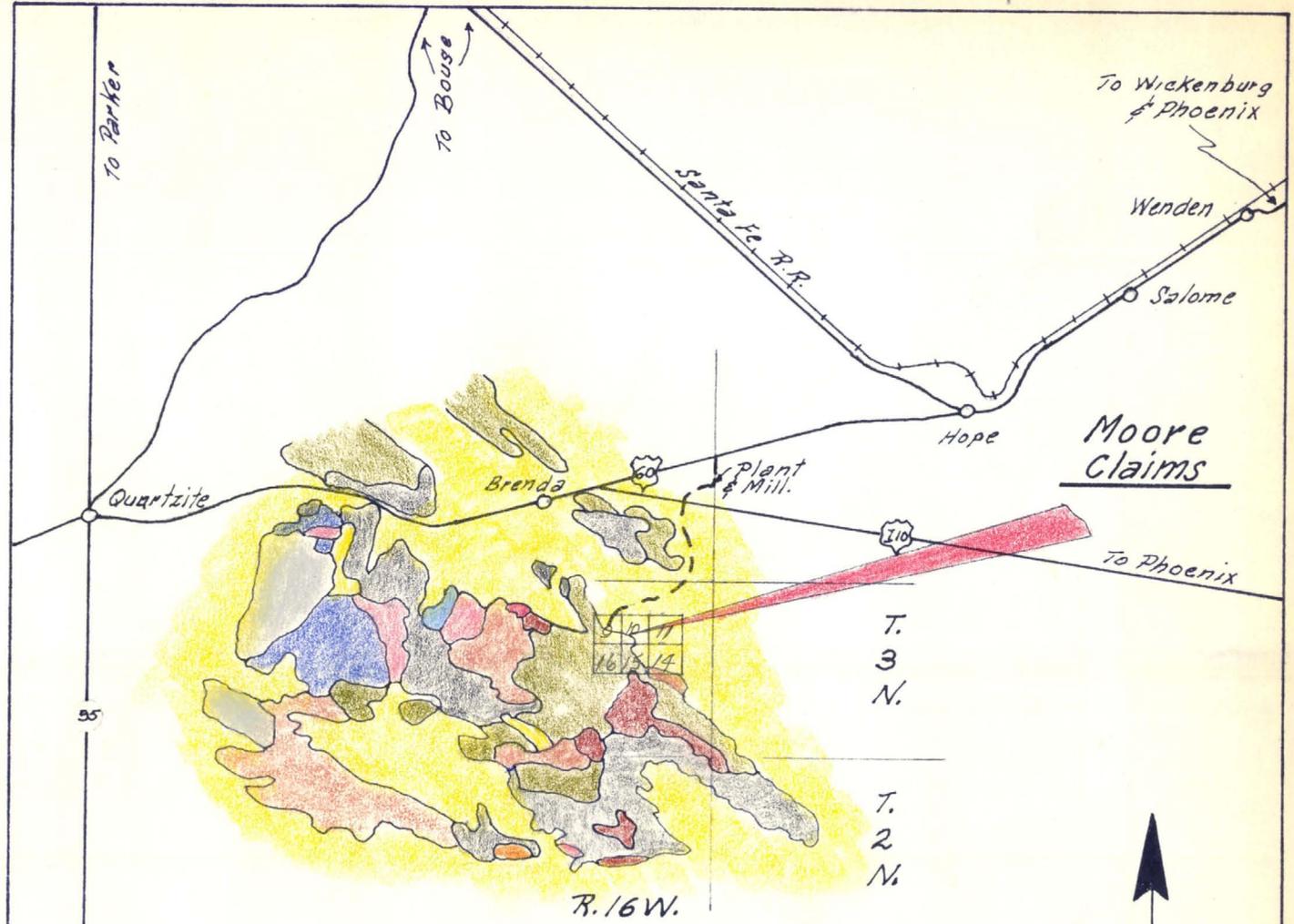
CONCLUSIONS:

Were the above exploration successful in developing a 3,000,000 ton ore body of 2% copper, the writer is of the opinion that the tonnage would support a 1000 ton/day mine and leaching operation and approximately a 20 ton/day electro-winning plant for 9 1/2 to 10 year life.

Respectfully submitted,

R. E. Mieritz,  
Mining Consultant  
Phoenix, Arizona.

December 1, 1973



LEGEND

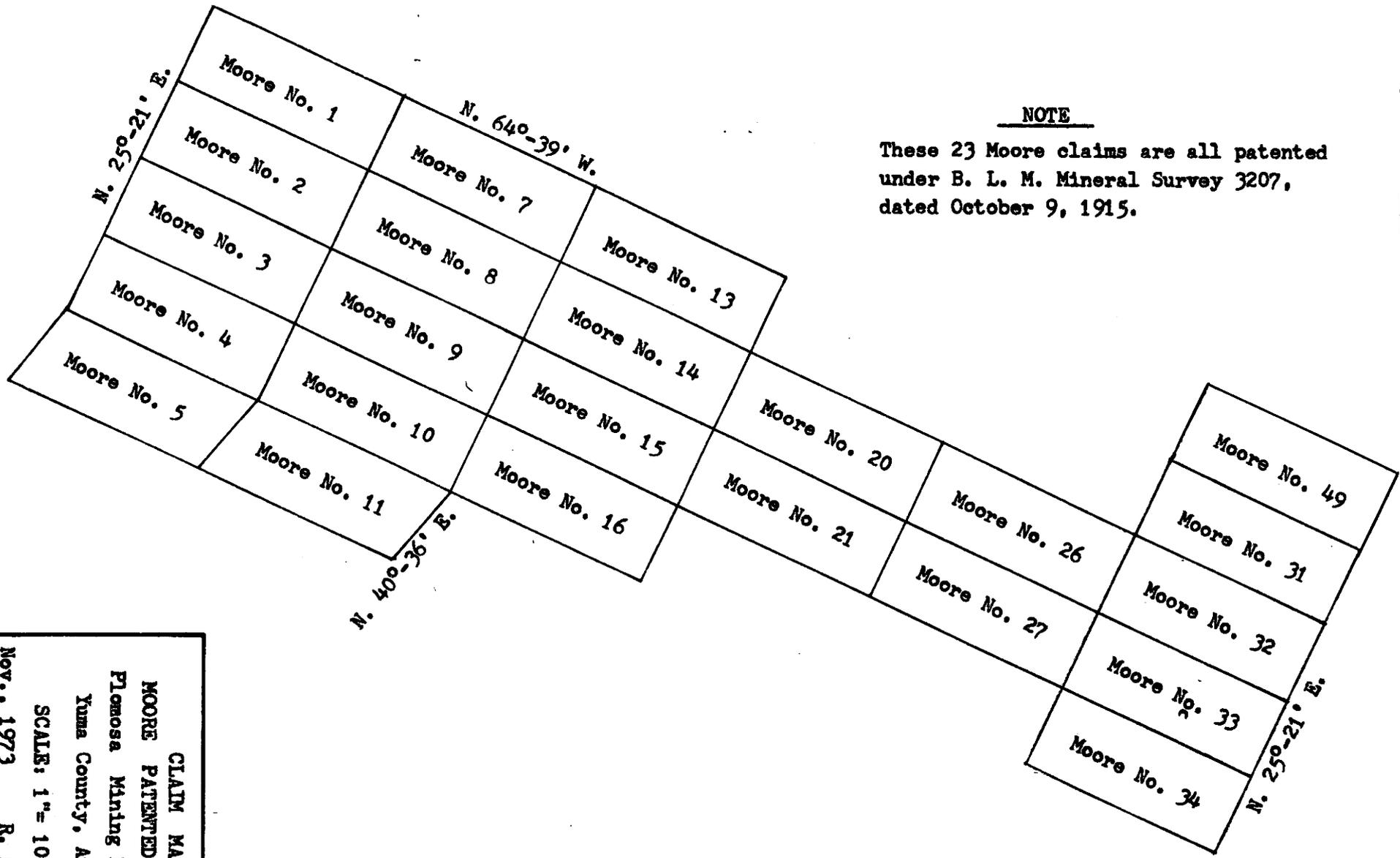
- |     |   |  |
|-----|---|--|
| 107 |  | Qs - Sand, silt, gravel.                               |
| 197 |  | Qb - Quaternary basalt.                                |
| 124 |  | Lgr - Laramide granite & related intrusive rocks.      |
| 127 |  | Li - Laramide dikes, plugs. (rhyolitic to andesitic)   |
| 192 |  | Kr - Cretaceous rhyolite.                              |
| 173 |  | Ka - Cretaceous andesite.                              |
| 113 |  | Mgr - Mesozoic granite & related intrusive rocks.      |
| 964 |  | Msch - Mesozoic schist.                                |
| 144 |  | Ms - Mesozoic shale, sandstone, limestone.             |
| 146 |  | PMu - Mesozoic-Paleozoic shale, quartzite, limestone.  |
|     |  | Ps - Paleozoic limestone, shale, sandstone, quartzite. |

REGIONAL GEOLOGY & INDEX MAP  
 (Portion of)  
 Yuma County, Arizona  
 SCALE: 1" = 6 Miles  
 Nov., 1973 R. E. Mieritz



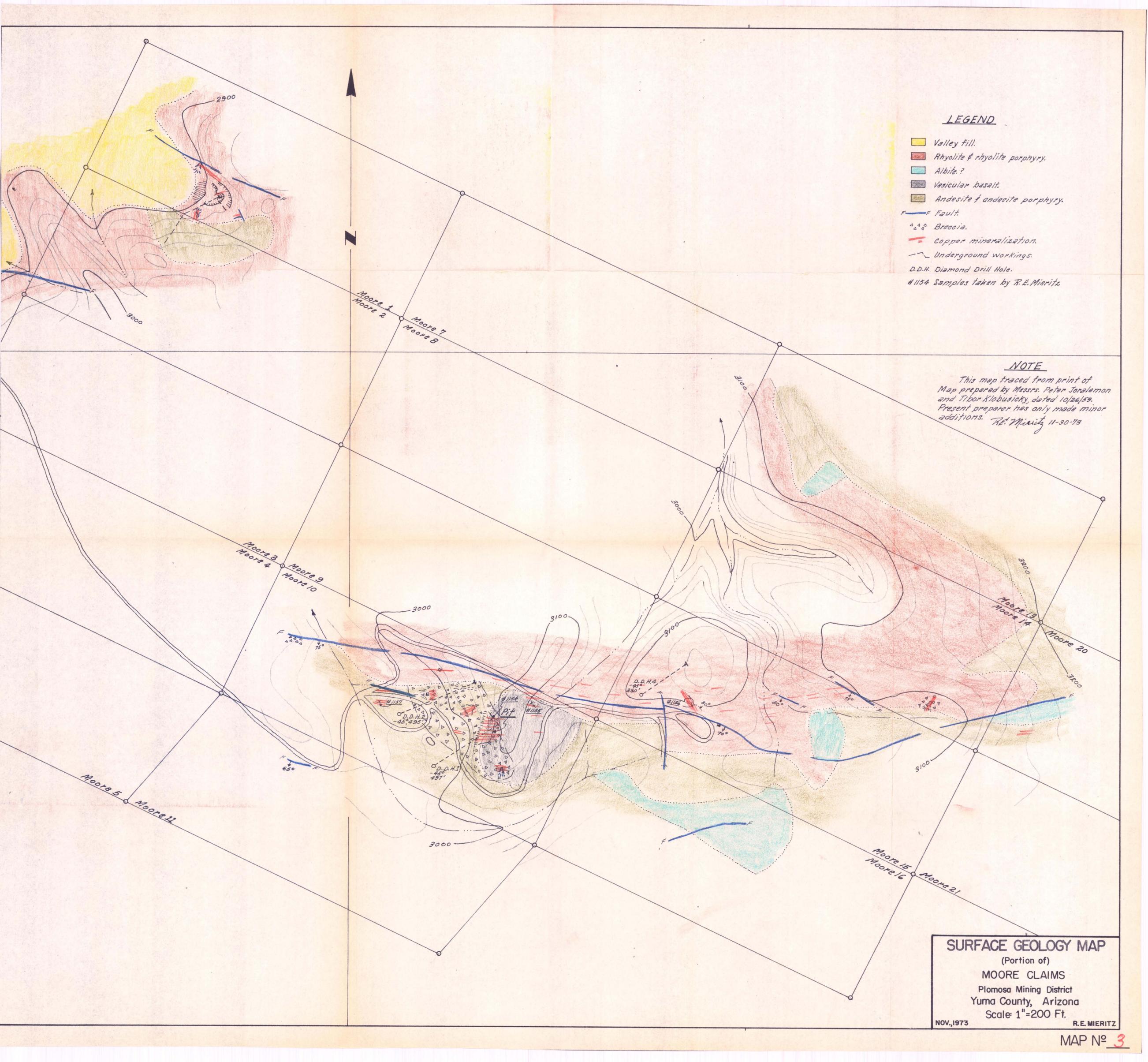
NOTE

These 23 Moore claims are all patented under B. L. M. Mineral Survey 3207, dated October 9, 1915.



CLAIM MAP  
 MOORE PATENTED CLAIMS  
 Plomosa Mining District  
 Yuma County, Arizona  
 SCALE: 1" = 1000 FT.  
 Nov., 1973 R. E. Mearitz

MAP 9



**LEGEND**

- Valley fill.
- Rhyolite & rhyolite porphyry.
- Albite?
- Vesicular basalt.
- Andesite & andesite porphyry.
- Fault.
- Breccia.
- Copper mineralization.
- Underground workings.
- D.D.H. Diamond Drill Hole.
- #1154 Samples taken by R.E. Mieritz.

**NOTE**

This map traced from print of Map prepared by Messrs. Peter Joralemon and Tibor Klobusicky, dated 10/26/33. Present preparer has only made minor additions. R.E. Mieritz 11-30-73

**SURFACE GEOLOGY MAP**  
 (Portion of)  
**MOORE CLAIMS**  
 Plomosa Mining District  
 Yuma County, Arizona  
 Scale: 1"=200 Ft.  
 NOV., 1973 R.E. MIERITZ

April 22, 1974

Letter of Certification

I Richard E. Mieritz, of 1634 W. Hazelwood Street, #2, Phoenix, Maricopa County, Arizona, does hereby certify that:

- (1) I am a mining engineer, graduated from the University of Wisconsin with the degree of Bachelor of Science in 1939.
- (2) I have practised my profession continuously since then, receiving my Arizona State Registration as a Mining Engineer in 1956 and my Arizona State Registration as a Geologist in 1970, being a member in good standing.
- (3) The report to which this letter is attached and part of, has been prepared on the basis of personal observations on and of the property on November 26, 1973, on the writer's general geologic knowledge of the area and on the review and study of available factual data of others.
- (4) I have no direct nor indirect interest in the property.
- (5) I have no direct nor indirect interest, nor do I expect to receive any interest, direct or indirect in the properties or the securities of Groundspear Resources Ltd., Vancouver, B. C., Canada or its affiliates.

Respectfully submitted

---

R. E. Mieritz,  
Mining Consultant  
Phoenix, Arizona.

(AC602, 277-6053)

4-22-74

## INTRODUCTION:

The Moore group of patented copper claims are located southwest of Hope, Arizona in the eastern foothills of the New Water Mountain Range in Yuma County, Arizona.

Interesting and copper mineralized portions of the property were field examined by the writer on November 26, 1973. Accompanying the writer was Mr. Chris Mueller, a co-owner of the property and present operator on a lease basis.

This Geologic Evaluation and Exploration Report, prepared and presented by the writer, is based on the physical field examination, a study and review of factual data available as a surface geologic map by Peter Joralemon and Tibor Klebusicky, 1959, for Bunker Hill Mining Co., and mineral survey plats of the Bureau of Land Management.

## PROPERTY, LOCATION and ACCESSIBILITY:

The property consists of 23 191e mining claims known as the Moore No. 1, 2, 3, 4, 5, 7, 8, 9, 10, 11, 13, 14, 15, 16, 20, 21, 26, 27, 31, 32, 33, 34, and 49. (See Map No. 2). These claims are covered by Mineral Survey #3207 of October 9, 1915. The survey plat indicates their position as being approximately in Sections 10, 11, 14 and 15 of T. 3 N., R. 16 W., G. & S. R. E. & M., Plomosa Mining District, Yuma County, Arizona.

The writer is of the opinion that the claims are in Sections 9, 10, 15 and 16 due to a later date correction of almost one mile eastward in the Range line between T. 4 N. and T. 5 N. in this area. At the time of the mineral survey, the territory was unsurveyed. Total claimed-deeded acreage is 475.007 acres.

Travel to the property can be made by automobile if one is careful in some of the gravel washes the mine access road traverses within the property. From Phoenix take U. S. Highway 60 westward toward California passing through the Arizona towns of Wickenburg, Aguilla, Wenden, Salome and Hope. (A service station and junction with State Route 72). From this point, continue west on U. S. 60 for 8.6 miles to a gate in the highway right-of-way fence on the left or south side of route 60 and a due south gravel road. Travel south on this road (through gate) for 0.7 miles to the co-owners mobile home and his leach and electrolytic deposition refining operation. From this point, a frequent travelled County maintained gravel road leads southwest - through an underpass for I-10 (3.4 miles distant) to the property and in particular the production Pit which is 8.0 miles by road from the owners base of operation. (See Map No. 1).

## FACILITIES:

No facilities, gas, electricity or water are available at the property. With the property in the east foothills of the New Water Range, water could be developed in the valley gravels to the east. In fact, Mr. Mueller has a 50 acre Mill site in Sec. 36, T. 4 N., R. 16 W., adjacent to

low the chosen depth of 100 feet. This area then becomes a target of exploration.

EXPLORATION REQUIREMENTS - COSTS:

The envisioned program, aside from detailed geologic surface mapping and limited surface sampling includes dozer trenching, and moderate spaced percussion drilling in grid form at intervals of 200 feet paralleling the long dimension and 100 foot spacing paralleling the short width. Each longer line pattern should be "staggered" 100 feet, thus creating a "diamond" pattern over the rectangular shaped target.

With this designed plan of exploration in mind, the writer estimates the following cost budget for Phase I as follows:

PHASE I:

Detailed surface geological mapping.	\$ 2,000.-
Surface Dozer trenching and sampling, including supervision and additional surface mapping.	\$ 8,000.-
3000 feet Percussion drilling, including sampling, assaying, personnel travel expenses and Supervision Fees and expenses, @ \$15.00/ft.	\$ 45,000.-
Contingencies, overrun of work, underestimate.	<u>\$ 10,000.-</u>

PHASE I Total \$ 65,000.-

If Phase I is successful and the "inferred" potential is reclassified as "indicated" or "measured", then a Phase II program should be implemented and carried forward by exploring both eastward and westward from the initial "block" by the taking of surface samples, more dozer trenching and more percussion drilling to the same 150 foot depth. The cost budget for Phase II would approximate \$100,000.- or more, - results determining the expenditure.

CONCLUSIONS:

Were the above exploration successful in developing a 3,000,000 ton ore body of 2% copper, the writer is of the opinion that the tonnage would support a 1000 ton/day mine and leaching operation and approximately a 20 ton/day electro-winning plant for 9½ to 10 year life.

Respectfully submitted,

R. E. Mieritz,  
Mining Consultant  
Phoenix, Arizona

December 1, 1973

4-22-74



Hope - 81.6 Turnoff - 89.7 Mill - 90.4 West  
Panda 93.8 98.4

~~91.6~~  
91.5

Well 285 - water @ 135  
alt 800' " " "

Parricks Explorations, Vancouver  
cont. Steve Padvak - Smith?

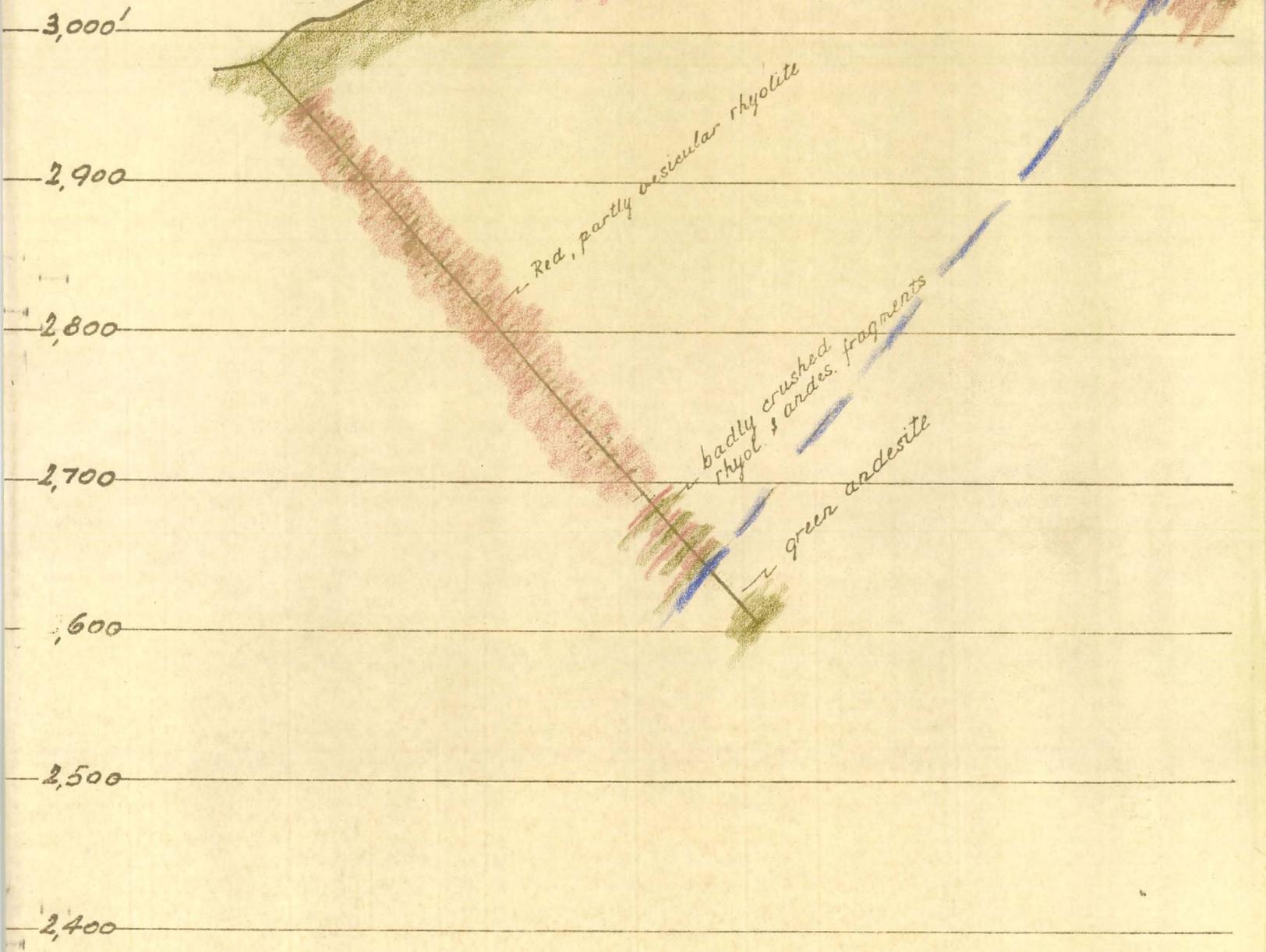
# Salome Copper Prospect.

Section A - A'  
Scale 1" = 100'

Diam. drill hole #1  
Coord. : E 99,550  
N 99,820  
Core recov. : 85.6%

Bearing : N 60° E  
Dip : - 45°  
Length : 497'

Elevation



# Salome copper prospect.

Section B - B'  
Scale 1" = 100'

Diam. drill hole # 2  
Coord. : E 99,500  
          N 100,060  
Ave. core recou. :

Bearing : N 75° E  
Dip : -45°  
Length :  
Dec. 1959. P.J. - T.K.

Elev.

3,100'

3,000

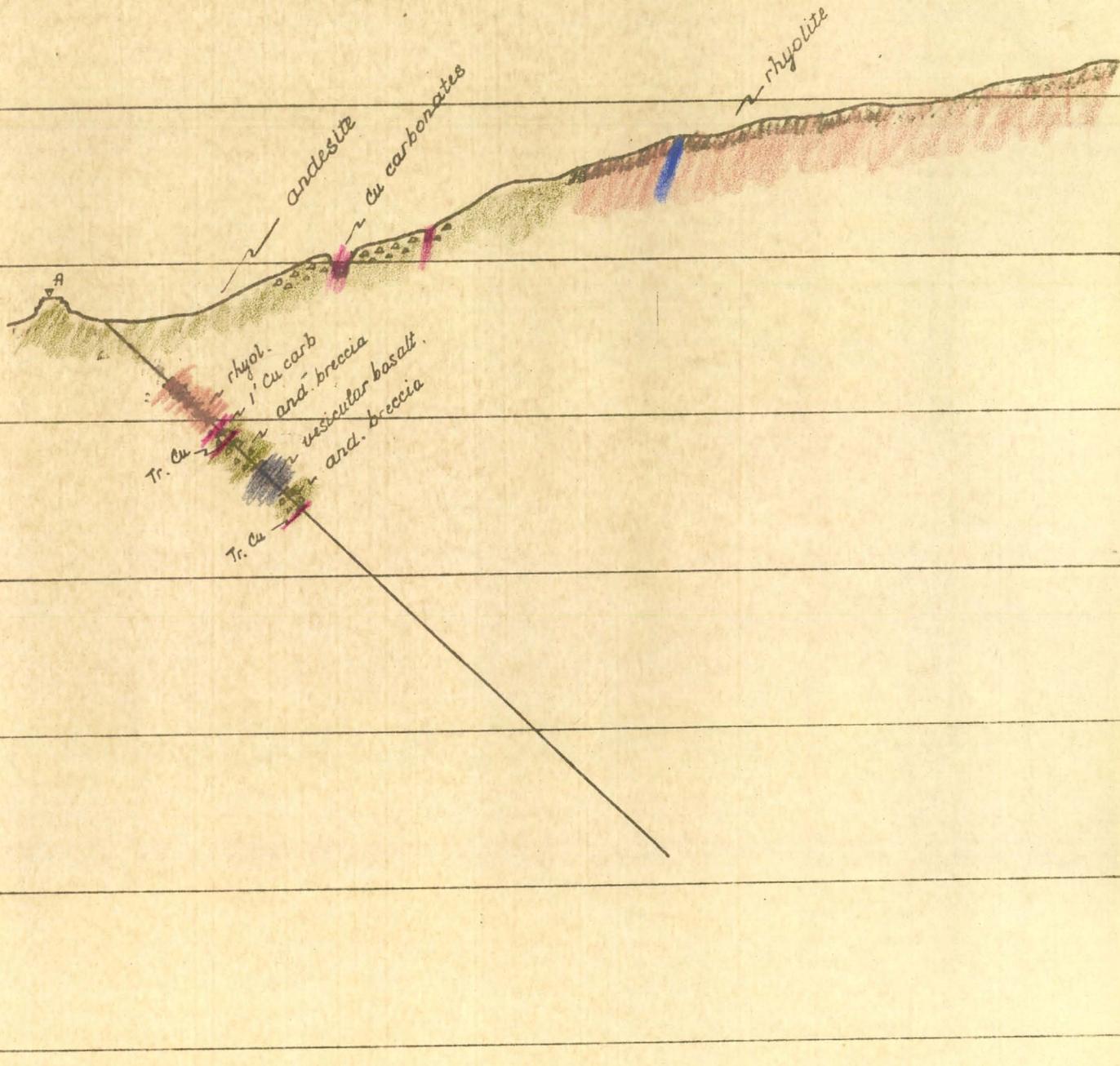
2,900

2,800

2,700

2,600

2,500



# Salome copper prospect.

Section C - C'  
Scale 1" = 100'

Diam. drill hole #4

Coord. : E 100,420  
N 100,110

Ave. core recov. :

Bearing :

Dip : -45° 0' - 151'

Length : -43° 151'

Dec. 1959; P.J. - T.K.

Elev.

3,100

3,000

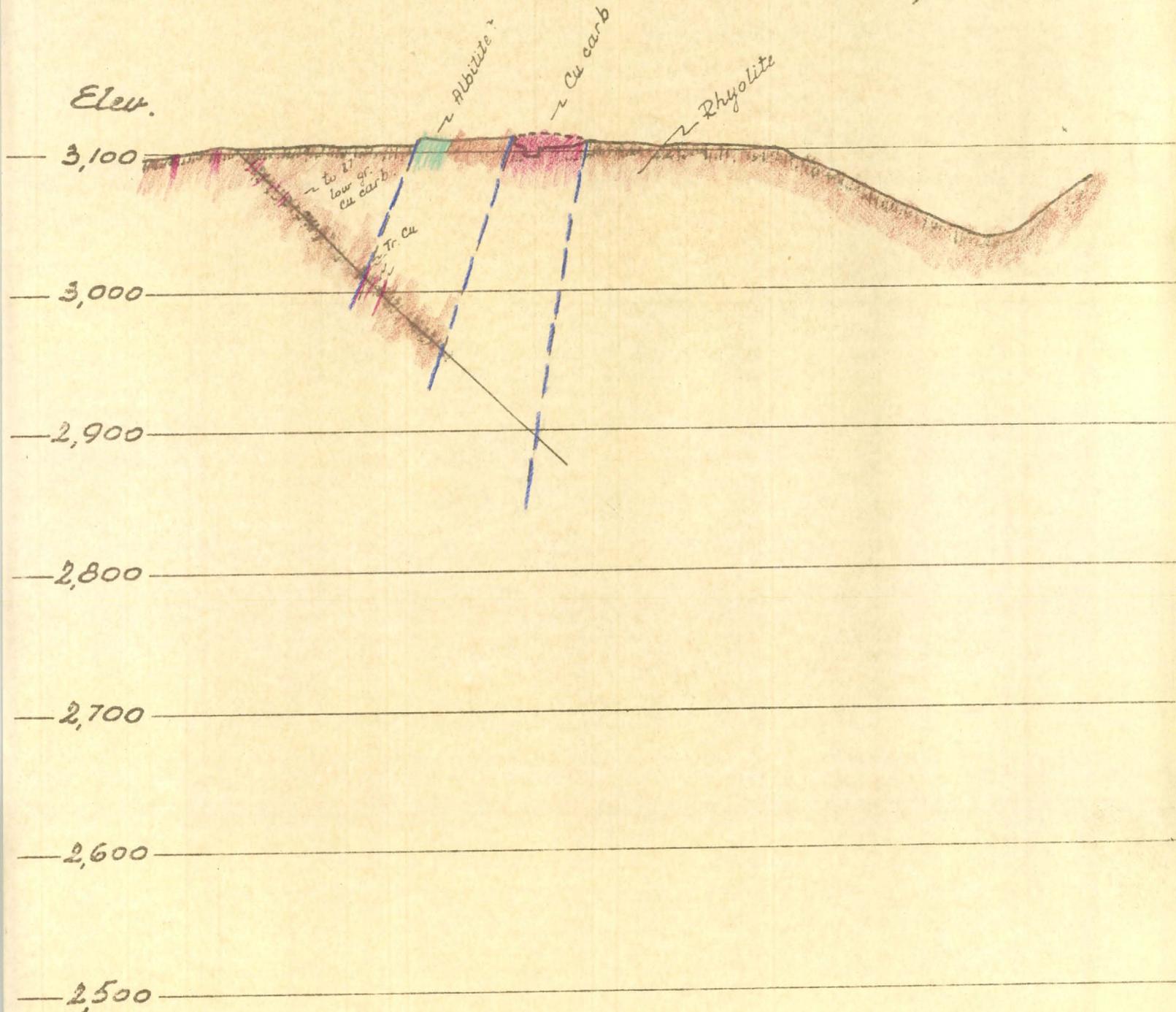
2,900

2,800

2,700

2,600

2,500



Thomas C. King

ENGINEERING

Box 641, Hesperia, California

February 19, 1965

(714 244-9908)

Mr. R. H. Wilpolt  
Superior Oil Company  
Box 12487  
Tucson, Arizona

Dear Mr. Wilpolt,

Enclosed is a map of the 45 claim group filed Feb 13 & 14th on the ground and Feb 17th, 1965 of record in the court house at Yuma.

As we discussed in our telephone conversation this morning the reason for our acquiring this ground is the large amounts of exotic copper impregnating the volcanics in the area of U. S. Mineral Survey 3207, a patented group of 23 claims, 475 acres, as shown on the attached map.

The presence of such large amounts of exotic copper indicates a nearby source of considerable magnitude which might be discovered by geophysics such as E. M. and magnetometer surveys and drilling on the flats northeast of the dacite cliffs covered by the patented ground.

We have a short option on this patented ground known as the Moore Mines from Mrs Flora Marshall, the owner, for \$2,000 down, \$5,000 in 6 months, and the balance of \$28,000 at the end of a year for a total purchase price of \$35,000.

If you are interested in picking up the ball from here we would lease the entire group on a royalty of 8 mills per pound of copper produced, minimum royalty of \$20,000 per year starting one year from date. You would carry out the terms of the purchase of the patented claims - which you would then own subject to our royalty of 8 mills per pound of copper. This royalty figures on the present price of copper as 0.008/0.34 or about 2 1/4% of the gross copper price. This is the same deal United Nuclear has with my former partners on the Esperanza group at Safford

You could drop the property at any time after 6 months and your obligations would cease. If you dropped the property at any time farther in the future you would turn title of both the patented group and the staked claims back to us, or such title to the claims and the option as you may have.

If you elected to keep the property at the end of a year you would start payments of the minimum royalty as stated above.

If you should move rather quickly and start discovery drilling on the claims and perfection of title on the group we staked there would be no down payment. If you cannot move this fast and we have to do this work, we would have to charge a down payment to break ourselves out even. We could supervise some of the work for you if necessary. All additional claims staked for the interest of either party in TJH, RIG would become a part of the same deal.

If I should be out in the field, please contact my partners through Mr. William Rosen, 8226 E Whittier Blvd, Pico Rivera, Calif, (213) Ra3 4533.

Sincerely yours

  
Thomas C. King