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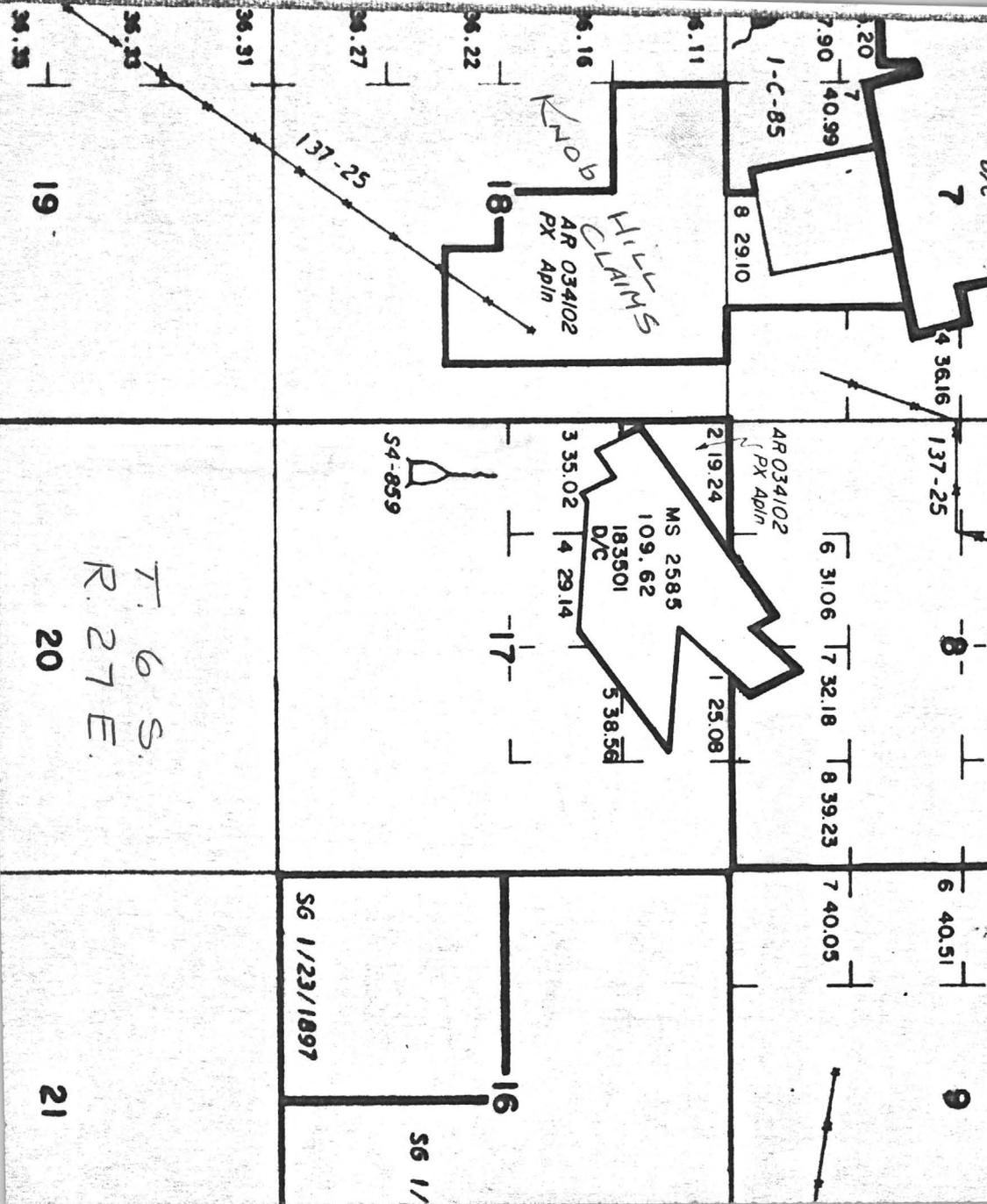
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7

137-25

8

6 40.51

9

7 20

7 90 40.99

1-C-85

8 29.10

4 36.16

AR 034102
PX Apin

6 31.06

7 32.18

8 39.23

7 40.05

2 19.24

1 25.08

MS 2585

109.62

183501

D/C

5 38.56

3 35.02

4 29.14

17

16

SG 1/

SG 1/23/1897

HILLMAN'S CLAIMS

AR 034102
PX Apin

MOOP

18

137-25

54-859

19

20

21

T. 6 S.
R. 27 E.

36.25

36.23

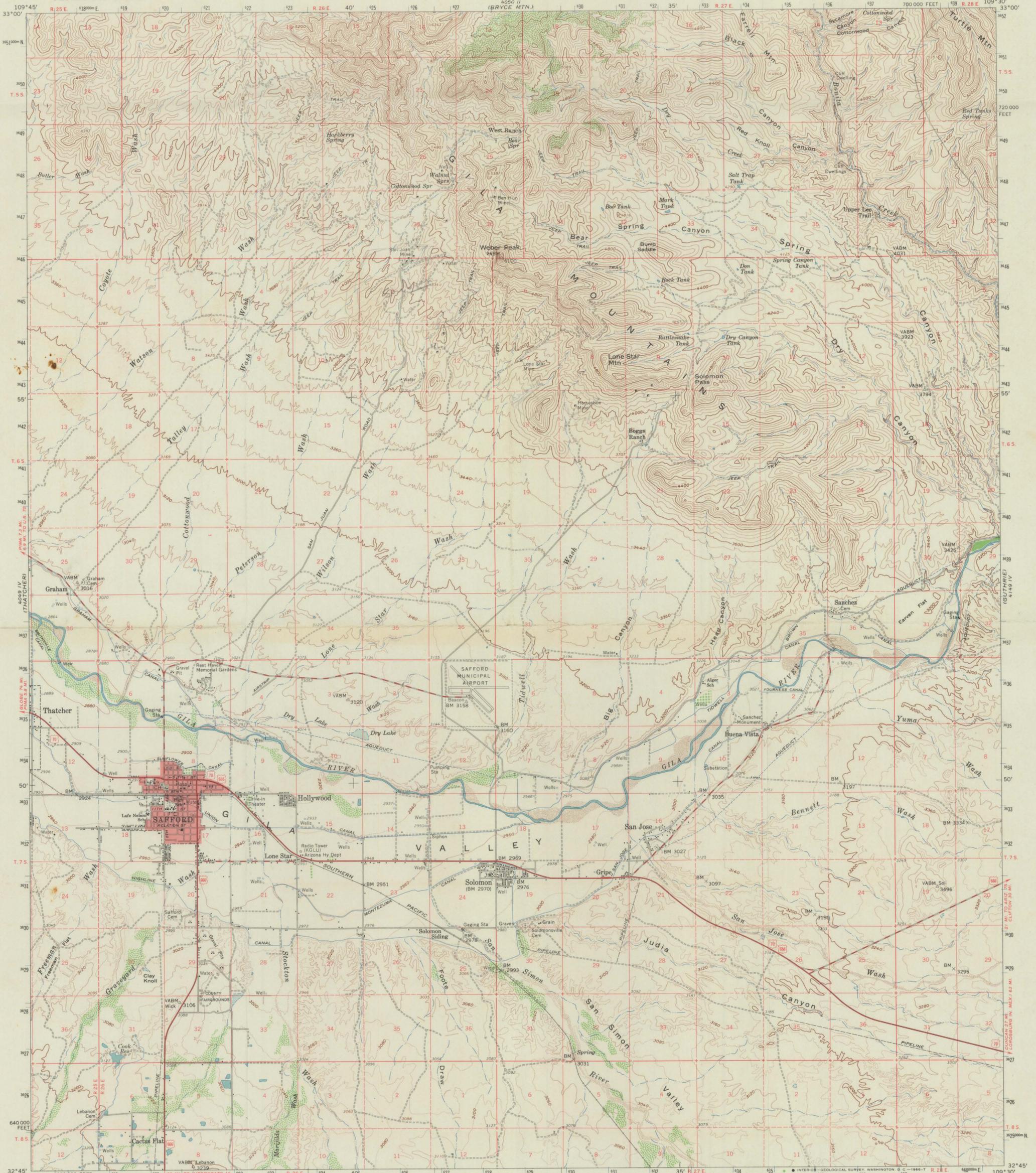
36.31

36.27

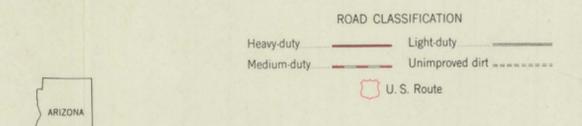
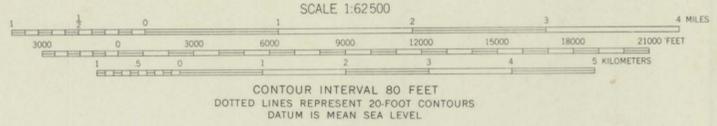
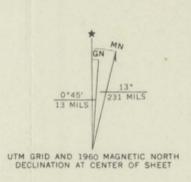
36.22

36.16

36.11



Mapped, edited, and published by the Geological Survey
Control by USGS and USC&GS
Topography from aerial photographs by photogrammetric methods
and by planetable surveys 1960. Aerial photographs taken 1957
Polyconic projection. 1927 North American datum
10,000-foot grid based on Arizona coordinate system, east zone
1000-meter Universal Transverse Mercator grid ticks,
zone 12, shown in blue
Red tint indicates area in which only
landmark buildings are shown
Where omitted, land lines have not been established



THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
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A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

SAFFORD, ARIZ.
N3245-W10930/15
1960
AMS 4049 I-SERIES V798

PRELIMINARY RECONNAISSANCE EXAMINATION

Date: April 15, 1970

By:

Name of Property: Horseshoe & Knob Hill

State: Arizona

County: Graham

Location: NW⁴ Sec. 17 T.6 S. R. 27E.

District: Lone Star

Date of this Report: April 24, 1970

By: E. Grover Heinrichs

Map & Aerial Photo Ref.: Safford 15' U.S.G.S. Quad

Extent of Property: 7 claims, approx. 120 acres at Horseshoe (Patented)
4 " " 80 acres at Knob Hill

Ownership (Name & Address):

Leased or Optioned to (Name & Address):

Guy Anderson, 605 Main St, Safford Az. & Leslie West et al

Facilities:

(a) Accessibilities (Roads, Trails, etc.):
Good

(f) Water: from valley (can be developed)

(b) Air Fields: at Safford

(g) Labor: Local

(c) Power: From San Juan

(h) Climate: Arid

(d) Telephone: None

(i) Supply Source: Safford & Tucson

(e) Housing: None

(j) Miscellaneous:

Type of Deposit: (Describe briefly under following headings; Structure, Lithology, Mineralogy, Stratigraphic conditions, Physiographic conditions, Reserves, Possible Extensions, Geology, Geophysics & Drilling):

Horseshoe: Heavy red iron stained zones with small copper oxide dikes largest 4 ft. wide very high grade est. 4% numerous small copper oxide zones. Limited tonnage available. Cretaceous volcanics & sediments.

Knob Hill: Very small exposures of oxide copper.

Mine Workings: (Brief description of methods used, map to be attached if available)

Open cut and small stope and small adit. Limited production likely no more than +/- 100 tons of ore.

Production Data: (Past, present and possible future)

No facts. May have been one care +/- shipment. About 30 tons is stockpiled at the site.

Sampling and Analysis: (By whom--Results)

NONE

PRELIMINARY RECONNAISSANCE EXAMINATION

Mining Equipment on Property: One churn drill, reportedly owned by O.L. Hill, former lessee.

Mill Equipment on Property: None.

Misc. Equipment on Property: None.

Camp Facilities: None

Ore Reserve Estimates: Limited

Recommendations and Conclusions: The properties are very limited in area and are not contiguous. The iron staining and mineralization look interesting on the Horseshoe but even if something economic were developed it would be necessary to negotiate with Kennecott who surround and two properties on all sides. One deep drill hole and two shallow ones would adequately test the property. Geology and geophysics should precede the drilling if done. This property would give Essex a toe hold in the district and some limited minor production could be realized and fed to Producer Minerals at San Juan. The asking price seems steep.

MINERALOGY:

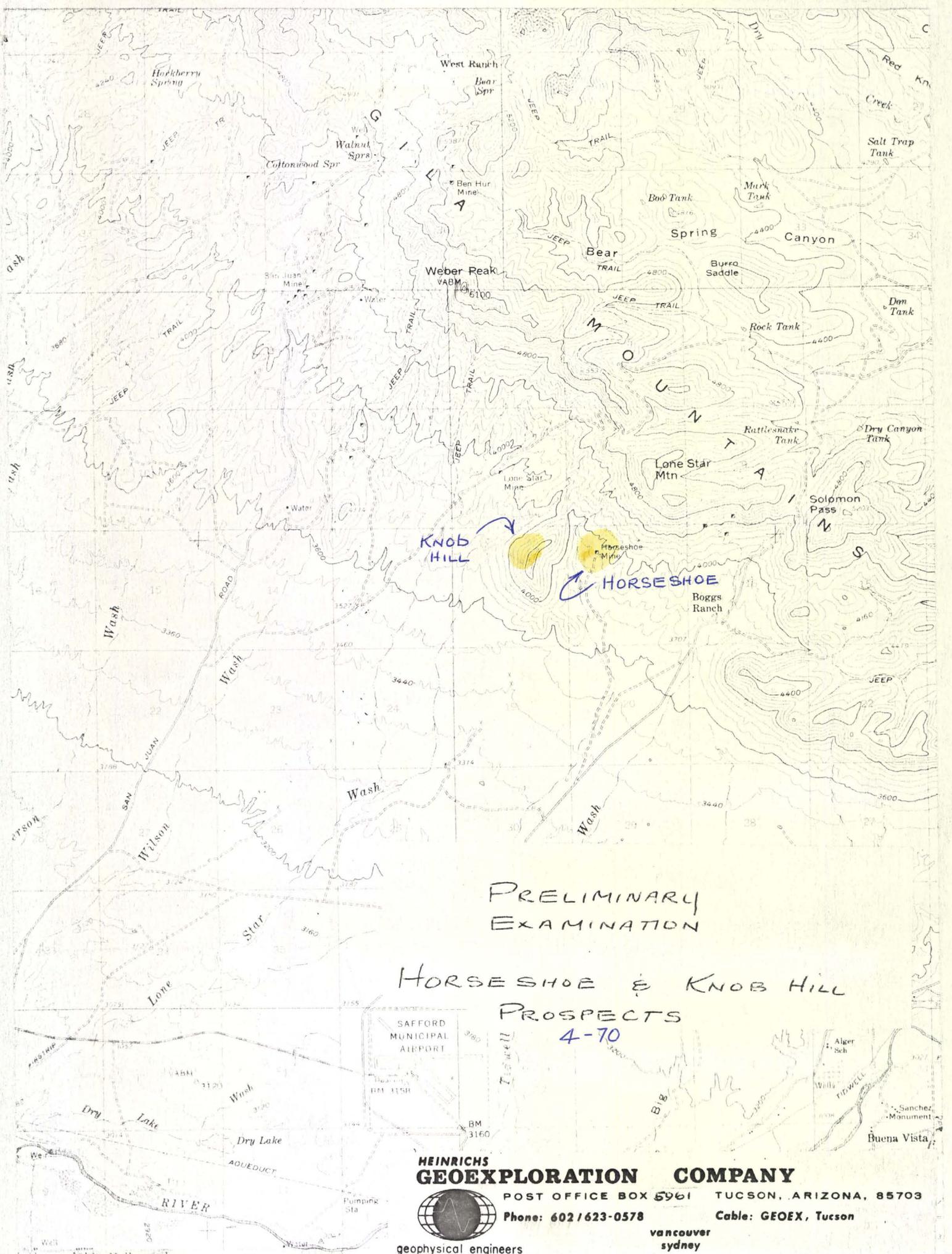
References: (Bibliography, Maps, Former Workers or Engineers)

Primary library reference is: Safford Copper Deposit, Line Star Mining District, Graham County, Arizona by R. F. Robinson and Annan Cook 1966.

Individual references are Guy Anderson, Clyde Davis and Leslie West.

Asking price: Scruggs is asking \$400.00 per mo and 10% of net smelter returns. \$100,000 end price on Horseshoe.

Knob Hill: \$500.00 per month and 5% of net smelter returns. End Price? Claims \$27,000 put into property -- how?



HEINRICHS GEOEXPLORATION COMPANY

POST OFFICE BOX 5961 TUCSON, ARIZONA, 85703

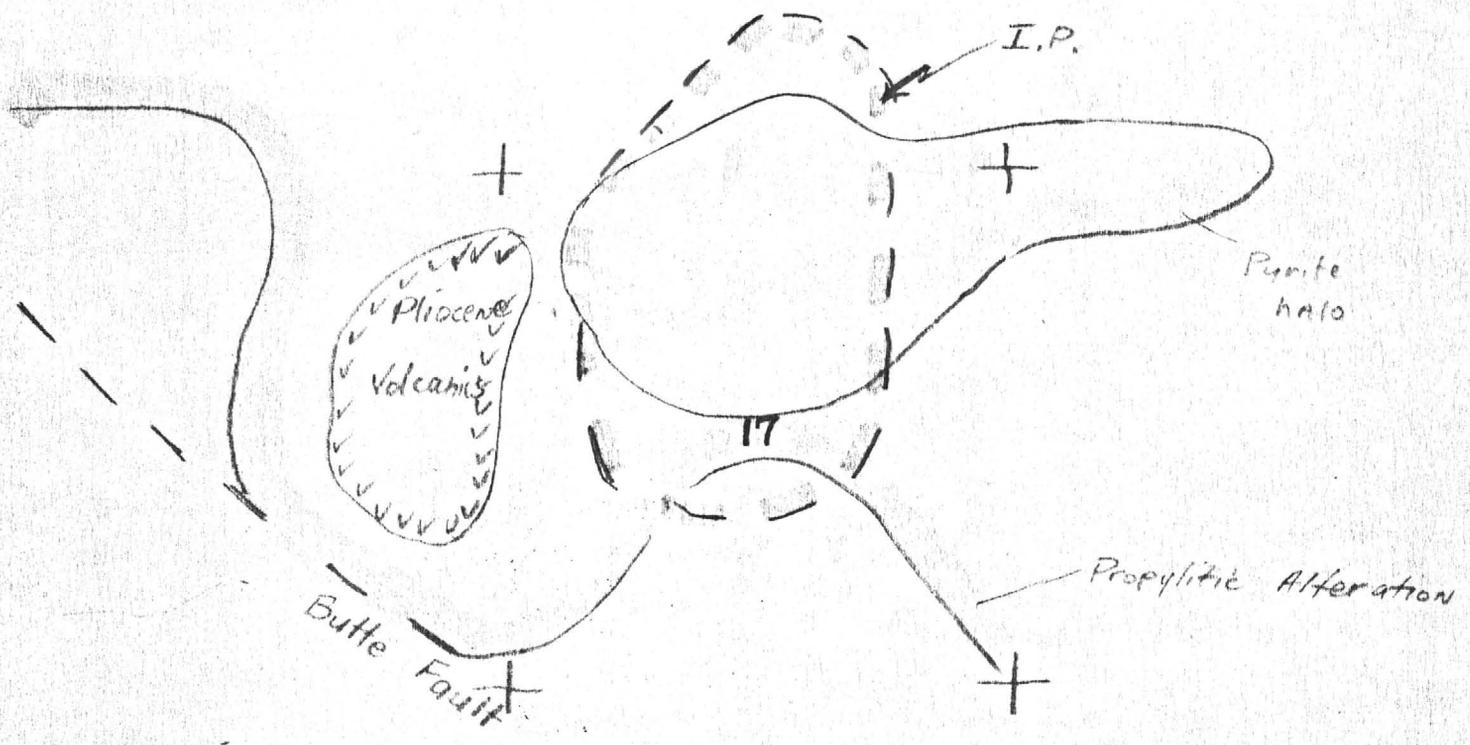
Phone: 602/623-0578

Cable: GEOEX, Tucson



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vancouver sydney

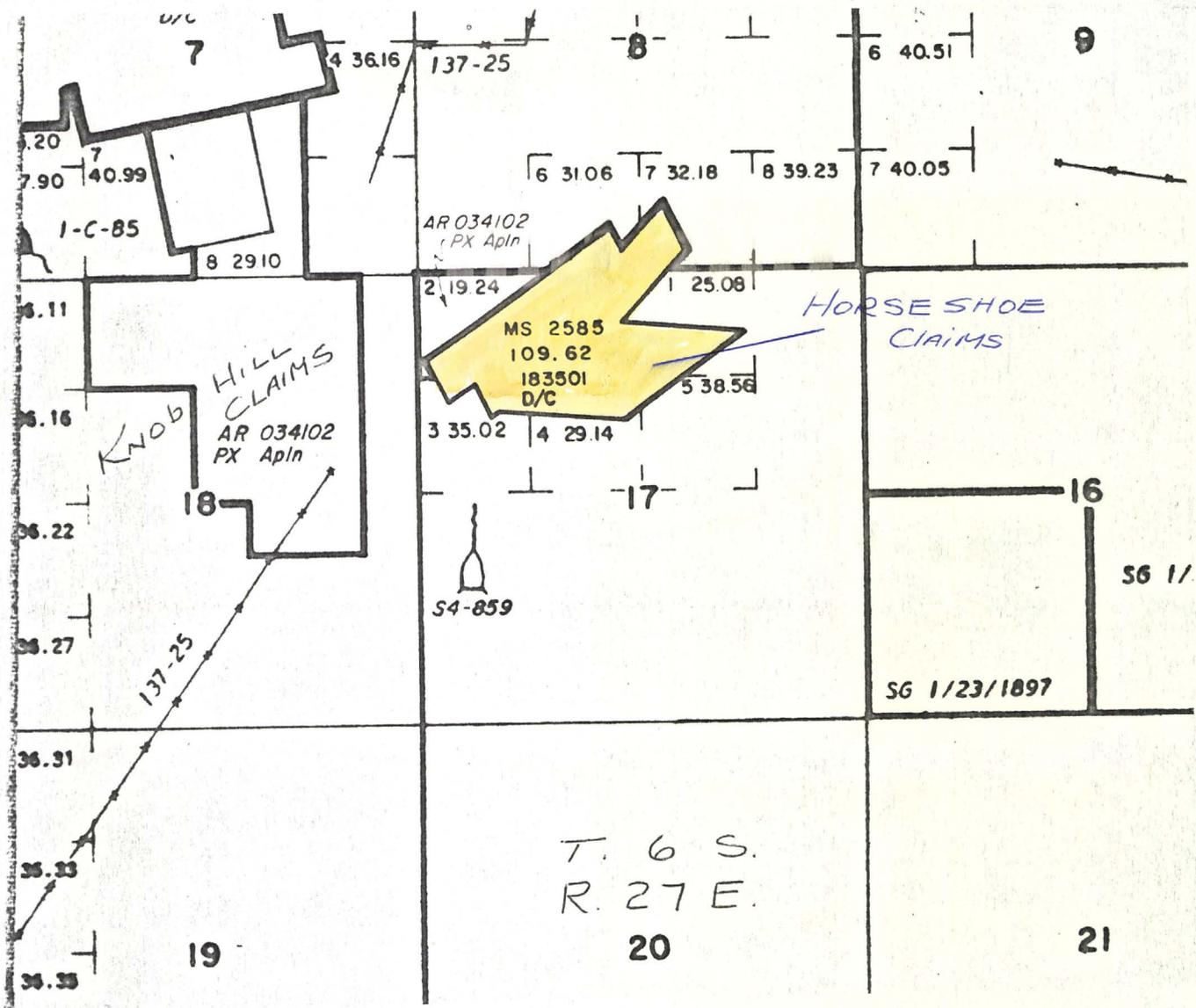


Info. from
Cook & Robinson
1967

PA Propylitic Alteration

PH pyrite halo
MINOR Cu Sulfides

I.P. Moderate I.P.



GRAHAM COUNTY
ARIZONA

PRELIMINARY
EXAMINATION

HORSESHOE & KNOB HILL
PROSPECTS
FOR

ESSEX INTERNATIONAL, INC.
Natural Resources Office

TUCSON, ARIZONA

HEINRICH'S
GEOEXPLORATION COMPANY

POST OFFICE BOX 5961 TUCSON, ARIZONA, 85703

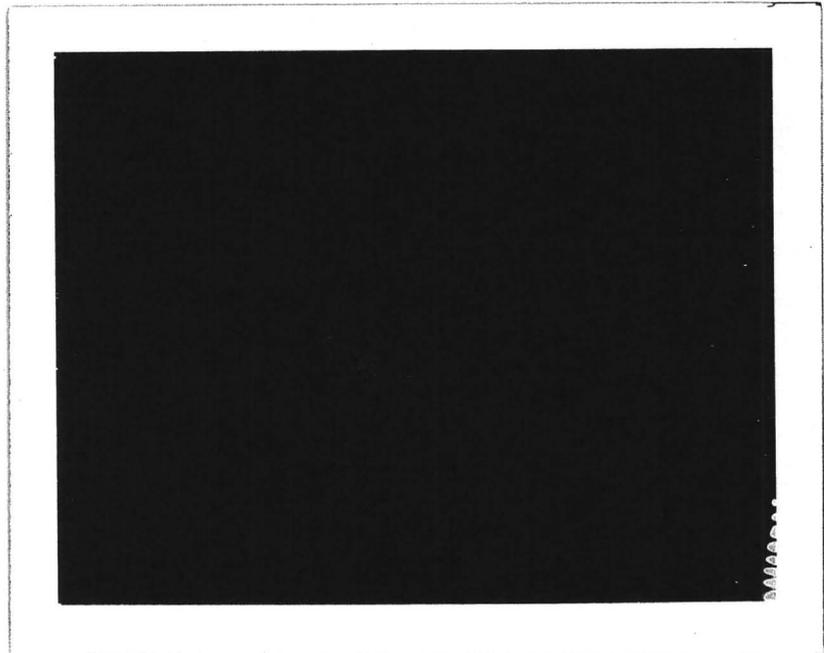
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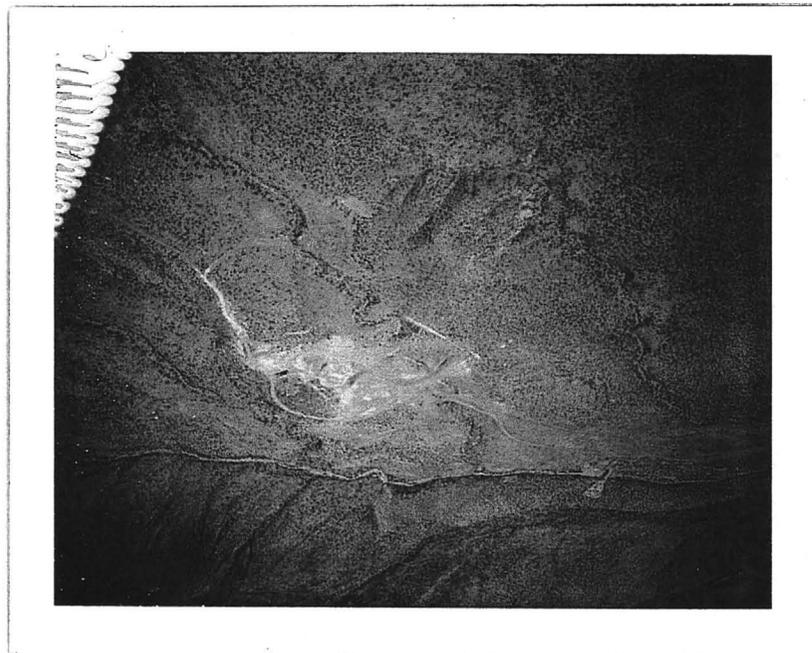
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Horse shoe property
DR. CLARENCE LAMB OWENS
CHEMIST AND METALLURGIST

SILVER CITY LABORATORIES

ENGINEERING AND ASSAY OFFICE
108 W YANKIE STREET
SILVER CITY, NEW MEXICO 88601

August 13, 1966

Mr. L.W. Kilpatrick
Mills Drilling and Producing Co.
P O Box 331
Safford Arizona

Dear Mr. Kilpatrick;

Pursuant to your request, I have carefully examined the Horse Shoe property, 7 claims, spending six (6) days from July 11 to July 16, 1966, on the ground, and herewith submit my report.

SUMMARY AND CONCLUSION

The ore is an ideal carbonate suitable for leaching. The contour of the property will permit a continuous gravity flow process. Water supply is adequately provided for. The assay tests shows prospects of a high grade copper ore over a large area. It is recommended that a leaching program using 5% H₂SO₄ Solution be established on the property and the concentrates sold to a local smelter until such time as a portable smelter is made available. Such a smelter has been in operation elsewhere and would greatly increase the profits of the venture. Some ore can be shipped direct to the Smelter.

LOCATION OF PROPERTY

The Horse Shoe claims are: Black Copper, Everybody's, Pearson's, Argoay, Bonita, Popular, Randolph No. 6, Lone Star Mining District, Sections 17 & 20, T6S, R27E, of the G.S.R.B.&M. Graham County, Arizona.

Knob Hill group NO.1, 2, 3, & 4, Section 19, T6S, R27E, of the G.S.R.B.&M. Lone Star Mining District, Graham County, Arizona. (See plat map attached)

These properties are 12 miles N.W. of Safford, Arizona, via paved and good graveled roads.

HISTORY

Prior to 1908, two smelters were constructed on the property and mining was conducted over a 10 year period. No records were kept regarding the production of Copper, Gold and Silver.

The ore body in the district has been explored by several large Mining Companies. Kennecott Copper Mining Company have claims completely surrounding the Horse Shoe group. Phelps-Dodge, Inspiration, Magma, U.S. Lime and Mine, United Nuclear, A.S.&R. have mining operations in this area.

CONCLUSIONS

See assay Reports.

Topography: foothills above the Gila River

Vegetation: Desert fauna

Climate: Mild to warm throughout the year.

Transportation: Southern Pacific R.R. at Solomon, Arizona

Claim Maps: enclosed

Elevation: 2900' to 3500'

GOVERNMENTAL CONDITIONS:

Excellent rapport between government, State and individuals.

SAMPLING AND ASSAYS

Standard mining methods of sampling across the veins and every 10 feet of drilling.

Tests: See assay Reports

ASSAYED MINERALS

100,000 tons of measured ore for leaching 3 to 12% ore

200,000 tons high silica ore 3 to 6% direct to smelter.

PROSPECTS

No apparent limitations

Should be 10 to 20 years of production

PRESENT EQUIPMENT

About \$109,500 in drills, bulldozers, trucks, cars housing, and assay office.

SUPPLY * LABOR-WATER-FUEL-EXPLOSIVES

All available 7 miles to Safford, Arizona.

OPERATING COSTS: PROFITS

Copper, Gold and Silver should show a profit of 20% of sales values.

Market is demanding at the present time.

About \$135,000.00 has been spent on exploration and development.

It will take about \$625,000.00 additional funds to complete plans for full production.

It is recommended a request be submitted to the G.S.A. Strategic and Critical Materials Division for a loan of \$480,000.00 as a partial cost of completing plans for full production.

Yours truly,

Dr. Clarence A. Lamb.