



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

The following file is part of the

Arizona Department of Mines and Mineral Resources Mining Collection

ACCESS STATEMENT

These digitized collections are accessible for purposes of education and research. We have indicated what we know about copyright and rights of privacy, publicity, or trademark. Due to the nature of archival collections, we are not always able to identify this information. We are eager to hear from any rights owners, so that we may obtain accurate information. Upon request, we will remove material from public view while we address a rights issue.

CONSTRAINTS STATEMENT

The Arizona Geological Survey does not claim to control all rights for all materials in its collection. These rights include, but are not limited to: copyright, privacy rights, and cultural protection rights. The User hereby assumes all responsibility for obtaining any rights to use the material in excess of "fair use."

The Survey makes no intellectual property claims to the products created by individual authors in the manuscript collections, except when the author deeded those rights to the Survey or when those authors were employed by the State of Arizona and created intellectual products as a function of their official duties. The Survey does maintain property rights to the physical and digital representations of the works.

QUALITY STATEMENT

The Arizona Geological Survey is not responsible for the accuracy of the records, information, or opinions that may be contained in the files. The Survey collects, catalogs, and archives data on mineral properties regardless of its views of the veracity or accuracy of those data.

PRINTED: 01/17/2003

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: COPPER HEAD

ALTERNATE NAMES:

MOHAVE COUNTY MILS NUMBER: 454A

LOCATION: TOWNSHIP 15 N RANGE 13 W SECTION 19 QUARTER SE
LATITUDE: N 34DEG 36MIN 58SEC LONGITUDE: W 113DEG 39MIN 24SEC
TOPO MAP NAME: GROOM SPRING - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

SILVER

LEAD SULFIDE

BARIUM

BIBLIOGRAPHY:

USGS GROOM SPRING QUAD

ADMMR COPPER HEAD FILE

COPPER HEAD
T15N R13W Sec 19

GROOM SPRING 7.5
GROOM SPF
ARIZONA
7.5 MINUTE S

3253 11 NW
(WIKIEUP NW)

254

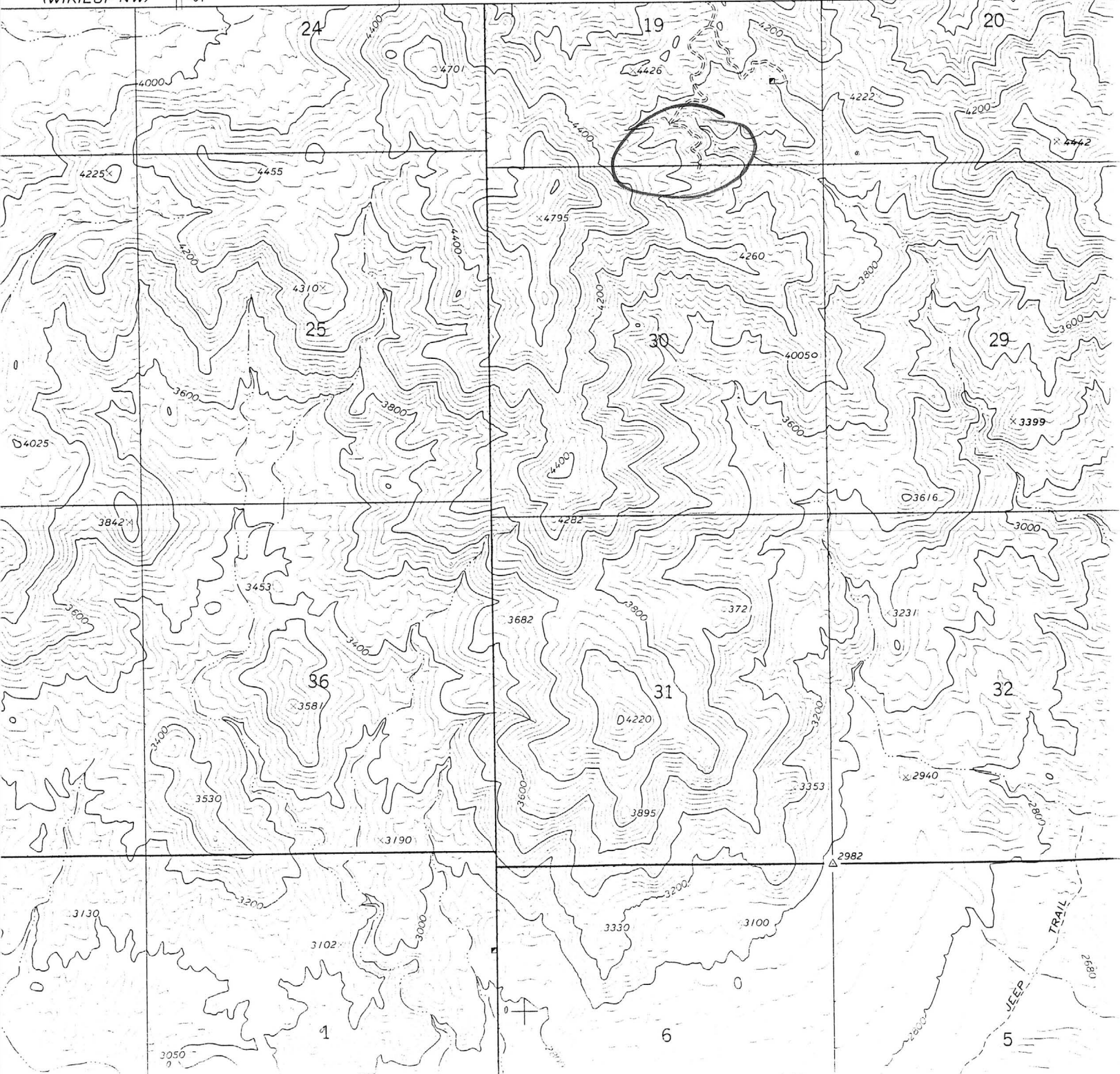
R. 14 W.

40' R. 13 W.

256

257 530 000 FEET

258



Richard E. Mieritz

MINING CONSULTANT

REPLY TO:

22 NORTH 22ND PLACE
PHOENIX, ARIZONA 85016
TELEPHONE 955-7353

January 17, 1967

Mr. Grat Wilson
P. O. Box 1043
Wikieup, Arizona

Dear Mr. Wilson:

On January 14, 1967 the writer completed a brunton and tape survey of the Adit Level located on the Copper Head claims which are situated in part of Sections 19, 20, 29 and 30 of T. 15 N., R. 13 W., G. and S. R. B. and M. in Mohave County, Arizona.

Purpose of the survey was to obtain an accurate map in so far as cloth tape and brunton will permit, and to evaluate the amount of development and degree of workmanship that has been done by the lessee since November 4, 1965, the date of a "lease and option to buy" agreement between yourself, Grat Wilso, lessor and lessees Redd and Frost as noted in the legal instrument.

POINTS OF CONCERN:

You had indicated that the lessee had accomplished the following:

- (1) advanced the Adit level beyond a point marked on the wall of the drift and so indicated (station 4 plus 63 feet) on the attached map.
- (2) installed an 18" air vent line from the portal to the working faces as well as a 4" compressed air line.
- (3) removed sufficient rock in the upper left corner of the Adit from the portal to where the "face" existed on November 4, 1965, in order to install the 18" air vent and 4" compressed air line.
- (4) installed timbers as stulls, stulls with one post or complete timber sets (caps and posts)
- (5) removed much and caved material and timbered in an area when the forward progress of the Adit intersected an old shaft or stope.
- (6) mined 24 tons of ore from two areas or small stopes, and,
- (7) "graveled" the floor of the Adit Level with a "clay-like" material which becomes "mud" when wet.

During the course of the actual survey the writer kept the above points in mind as as to evaluate same from a monetary standpoint, quantity and quality standpoint (miner-like fashion) as well as a time standpoint.

WORK ACCOMPLISHED

The writer has determined that the following work has been accomplished:

- (1) 125 lineal feet of drift or crosscut advance which averages 7 feet wide and a strong 7 feet high in cross-section, for the most part, untimbered.
- (2) installed (hung) approximately 340 feet of 18" air vent line and approximately 340 feet of 4" compressed air line.
- (3) removed approximately 300 lineal feet of rock from the upper left hand portion of the Adit (averaging 1 foot wide and 1½ feet high, as a triangle) to permit installation of the air vent and 4" compressed air line.
- (4) installed 8 sets of timber and at least 15 stulls or stulls with a post.
- (5) Removed muck and/or cave from the old shaft or stope area--quantity unknown.
- (6) mined 24 tons as evidenced by the two stopes closest to the "shaft area" and indicated on the attached map.
- (7) "graveled" approximately 240 lineal feet of Adit floor to create a hard, smooth surface to accommodate the rubber tired equipment used by the lessees.

EVALUATION OF WORK DONE:

Mine work completed can usually be evaluated by using one or more of the following as a base:

- (1) manshifts, the most frequently used measure.
- (2) tons of rock or mineral and
- (3) a dollar value for some unit of measure.

The evaluation of work completed by the lessee is based herein on the writers many years experience with small and large mining and exploration projects. Many intangible conditions such as location, accessibility, nearest source of supplies and spare parts and climatic conditions are always reflected in any evaluation of mine project progress or advance, costs, etc. Such considerations are herein included in the writers evaluation of the work actually performed by the lessee, or said in another way, what work, costs, etc, the writer would consider as satisfactory if such work were being completed for him on a project of similar conditions.

The tabulation on the following page has been prepared to provide a condensed evaluation of the work completed by the lessee.

WORKMANSHIP by LESSEE:

With regard to grading the workmanship of the work completed by the lessee-- or as stated in the November 4, 1965 agreement, quote "workman-like manner and in accordance with sound engineering and geological practice to obtain economical return" unquote, the writer did not see or observe any major divergence from the afore mentioned requirement.

In an instant or two, the "stull" timbering was not sufficiently "hitched into the wall, but then too, the timber has now dried to some extent thus permitting wood wedges to loosen and perhaps give an impression of "un-miner-like" work.

It is the opinion of the writer that in some instances the "stull" installation was superfluous because the rock penetrated is quite competent. Some "barring down" would easily have corrected what might be termed a "limited" or confined risk area.

The vein portion is somewhat a lesser competent rock but does not exceed 18 inches in width and would soon "catch itself up", or natural arch itself.

On the whole the writer could approve the "miner-like" quality of this work, that is, drifting, timbering, stoping and including the installation of the 18" air vent line because of the diesel driven equipment that was used to perform this work.

With reference to the 264 work day stipulation of the agreement, it appears that this condition has not been met as indicated by the writers evaluation of only 195 man shifts but the human element of a "hard worker" as compared to an "easy worker" and the degree of supervision is an elusive factor controable only at the time the work was completed. The writers 195 man shift figure is realistic with reservations as indicated above.

Respectfully submitted,

R. E. Mieritz, P. E.
Mining Consultant

TABULATION of WORK COMPLETED

| <u>Item</u> | <u>Type Work</u> | <u>Number</u> | <u>Lineal Feet</u> | <u>Size</u> | <u>Tons</u> | <u>Value Per unit</u> | <u>Total Value</u> | <u>Man Shifts</u> | <u>Number Men</u> | |
|-------------|--|---------------|--------------------|-------------------------|-------------|-----------------------|------------------------|-------------------|-------------------|--|
| 1 | Drifting, Xcutting. | | 125 | 7' x 7' | 500 | \$50.00 | \$6250.00 | 75 | 3 | |
| 2 | Install air vent line. | | 340 | 4" air 18" Vent | | \$ 1.00 | \$ 340.00 | 12 | 2 | |
| 3 | Blast for airlines. | | 300 | 1' x 1½' | 20 | \$ 1.00 | \$ 300.00 | 12 | 2 | |
| 4 | Timber, Sets, Stulls, | 8 15 | 25 22 | 8' x 8' 8"x8" timber | | \$14.00 \$ 6.80 | \$ 350.00 \$ 150.00 | 14 6 | 3 2 | |
| 5 | Remove muck (old shaft) | | | | ? | | \$ 375.00 | 15? | 3 | |
| 6 | Mined ore (hand sort) | | 20 | 1½' x 8' | 24 | | \$ 300.00 | 12 | 3 | |
| 7 | Graveled Adit floor | | 240 | 6' x ½' | 40 | | \$ 200.00 | 8 | 2 | |
| | Equipment repair, about 10% of actual time (breakdowns) | | | | | | \$ 375.00 | 15 | | |
| | Dead Work, instsll equipment, pump water, haul supplies into area, etc. about 12% actual time | | | | | | \$ 275.00 | 18 | | |
| | Geologist-Engineer (assuming there was one) | | | | | | \$ 400.00 | 8 | | |
| Totals | | | | | | | | <u>\$9315.00</u> | <u>195</u> | |

January 15, 1967

Mr. Grat Wilson
P. O. Box 1043
Wikieup, Arizona.

Dear Mr. Wilson:

During my tape and brunton survey of the Adit level we encountered water in the floor of the last 50 to 60 feet of development which prevented true measurements of the width of the development.

The presence of the water limits accessibility and can make an operation somewhat miserable. The floor in the area of the water is somewhat uneven and in the lowest spot, about a foot of water exists. It is suggested that you pump this water out occasionally so as to keep the development as dry as possible to facilitate the use of the mobile equipment that is used for mucking, drilling and haulage equipment. It is further suggested that the water be pumped to the outside through use of pipe so as not to get the clay like material wet which has been used to "gravel the floor" of the adit to obtain a hard smooth surface for the mobile equipment.

Dewatering of this area should be done as soon as possible, as I feel sure your attorney would give you permission from the legal standpoint.

Very truly yours,

E. E. MIERITZ

R. E. Mieritz, P. E.
Mining Consultant.

Agreement Nov. 4th 1965

2 leases on 2 plots.

16 claims - Trail, Copper Hill and, Upper Hill
and #2 through 15 - Book 6-A pages 165-179
Trail Book 5V page 21 Mineral County - Andrey
Manning Dist. impatented

264 work days required - no time limit - work-
man like shanner and in accordance with
sound engineering and geological practice - to
obtain economic return

2 shipments - 1st 10 tons } To Inspiration
2nd 14 tons }

Argentite - about 4" wide?
ore

paid royalty on 1st $\$858$ 15% ± 572.00 / ton or 500 oz
2nd $\$150$ 15% ± 1400.00 or $\$1000$ / ton or $\$66.$ / ton
or 500 oz.

June 66 - 4,572 oz - small piece from dump.

operators might not know ore?

316' wide for 140' - they wanted to put 18" air vent.

smelting machine - 7x7 - 5' rounds - 45 min.

90 ft of drift wash - all on same level - 3-4

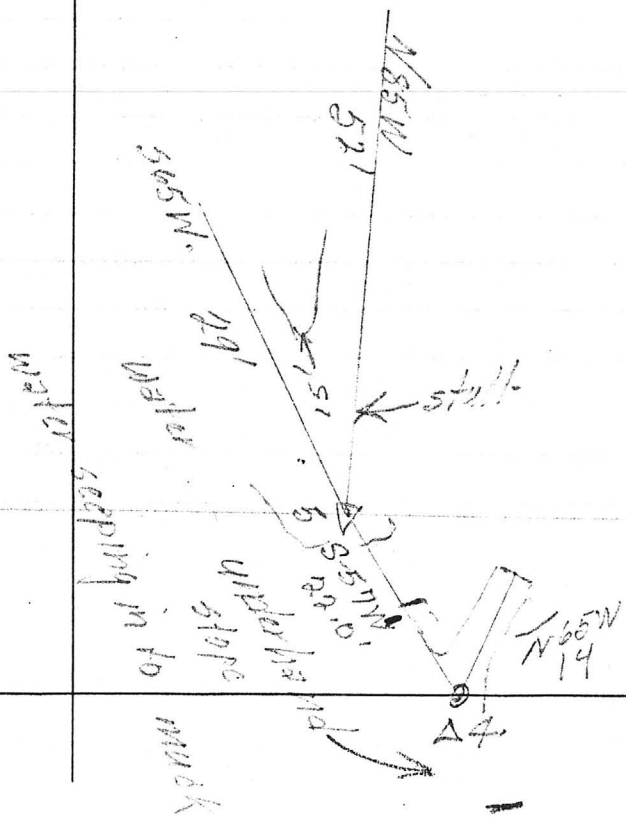
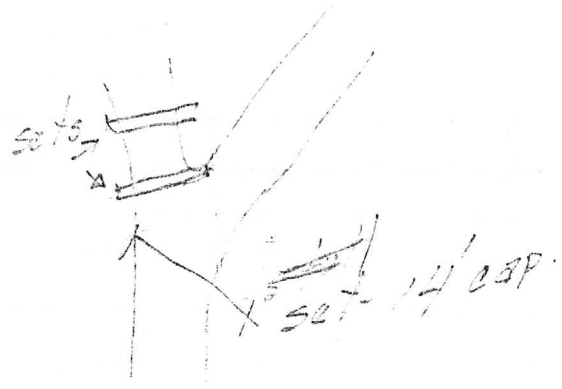
started on 2nd - couple of months

Ernest Blumens 1st,

um
um
um

um
um
um
um

Mudcrack on 25' ESE wide
6.0' long



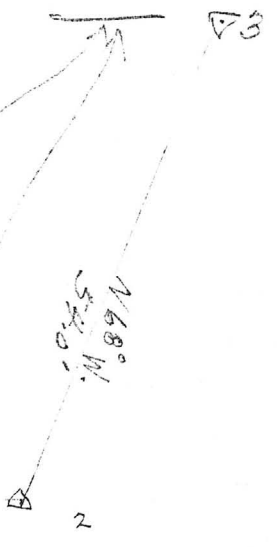
| | | |
|--------|------|------|
| Elev | 11.0 | 11.0 |
| | 6.0 | 5.5 |
| ST 74- | 7 | 9 |
| | 3.0 | 1.5 |
| | 5.0 | 7' |

Area 10' long Highgrade.
one roller blade

| | | |
|------|-----|-----|
| Elev | 8.0 | 6.0 |
| | 4.5 | 3.5 |
| EA-7 | 7 | 14 |
| | 4.5 | 2.5 |

When I see to this point

They stop to make
 100' or so for
 left side vent on



Filled bottom
 now even.

1076
 N 89° W

steel rail
 26'

N 92° W
 45'

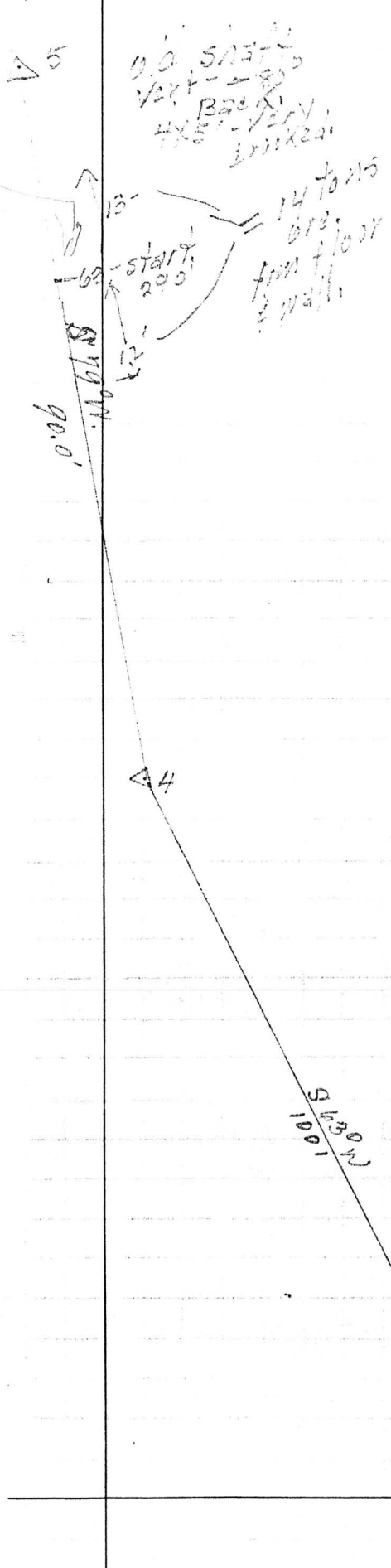
| | | | | | | |
|-------|-----|-----|-----|-----|-----|-----|
| Elev. | 6.7 | 7.2 | 7.0 | 7.0 | 6.7 | 7.5 |
| | 45 | 22 | 35 | 25 | 45 | 28 |
| 2Δ | 5' | 13 | 25 | 25 | 44 | Δ 3 |
| | 3.5 | 4.0 | 5.2 | 5.0 | 3.1 | 2.4 |

| | | | | | | |
|-------|------|-----|-----|-----|-----|-----|
| | 6.1R | | | | | |
| Elev. | 7.0 | 6.8 | 6.3 | 6.6 | 7.5 | 7.0 |
| ↑ | | 4.0 | 4.0 | 4.5 | 4.0 | 4.0 |
| Δ 28 | 21 | 34 | 45 | 60 | 20 | |
| / | 4.5 | 3.6 | 3.5 | 3.3 | 3.2 | |

2nd
 steel set.
 left side. Proof. Top 81° - evidence of
 sliding on rock - at top - not now blocked

| | |
|----|--------|
| | 2.8R |
| | 3' 3.3 |
| 0+ | 39 Δ 1 |
| | 4' 3.3 |
| | 3.0R. |

A' 17/25 - 18" vertical



63 9.0 7.5 7.7 7.5
 7.0 6.5 3.5 1.5 2.0 cor. 4.0
 $\Delta 4$ - 18.0 4.0 5.6 5.2 (ST) 7.7 8.8 Δ
 1.2 1.8 4.5 6.0 7.0 7.0 6.5
 21-27 Turnaround 9' deep.

Slope after @ 39'-45' - 17.5 from floor-floor
 to back (orig. average - 4" wide.

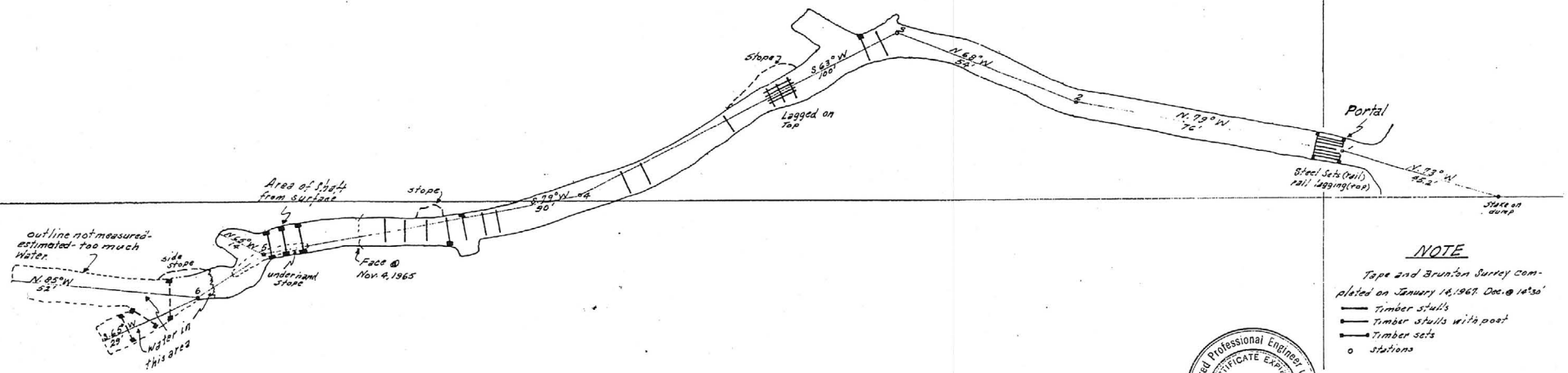
stalls @ 24, 26, 33.5, 38, 44, 50
 P P
 Posts loose - Blocking okay.

Sets @ 79, 83.5 88.0 these a key-blocks loose
 8x8'

Back slope - 30' to 53' - stalls @ 33 37
 40 - Not tapered fully - 8x8'
 stalls 34 not too solid.
 stalls @ 81 & 87'

| | | | | | | | | | |
|------------|-----|-----|-----|------|-----|------|-----|-----|------------|
| Elev = | 7.5 | 8.0 | 8.0 | 7.8 | 10' | 9.0' | 6.8 | 9.5 | 10 |
| | 8.0 | 5.8 | 4.5 | 4.0 | 5.0 | 5.5 | 3.5 | 6.0 | 11.0 |
| $\Delta 3$ | 5.0 | 1.0 | 1.9 | 2.2 | 3.0 | 4.2 | 6.3 | 8.1 | $\Delta 4$ |
| | 4.5 | 3.8 | 4.5 | 17.4 | 6.0 | 3.6 | 3.5 | 1.7 | 1.5 |
| | | | | cor. | | | | | 4.5 |

@ 5' - Stall - 8x8' @ 15 = 7.5
 solid-wedge block
 loose.
 small slope 18" wide up - 5' - loose.
 @ 10 - Stall & post - 8x8 - solid, except cap - no
 wedges.



NOTE

Tape and Brunson Survey completed on January 14, 1967. Dec. @ retro.
 — Timber stulls
 — Timber stulls with post
 — Timber sets
 o Stations



**ADIT LEVEL
 COPPER HEAD MINE**
 AUBREY MINING DISTRICT
 MOHAVE CO., ARIZ.

0 5 10 20 40
 R.E. Mieritz Jan 15, '69