



## **CONTACT INFORMATION**

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06/12/86

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: COLLOM MINE

ALTERNATE NAMES:

SILVER BUTTE  
BUCK SHOT

GILA COUNTY MILS NUMBER: 419

LOCATION: TOWNSHIP 9 N RANGE 9 E SECTION 8 QUARTER SE  
LATITUDE: N 34DEG 08MIN 07SEC LONGITUDE: W 111DEG 26MIN 48SEC  
TOPO MAP NAME: NORTH PEAK - 7.5 MIN

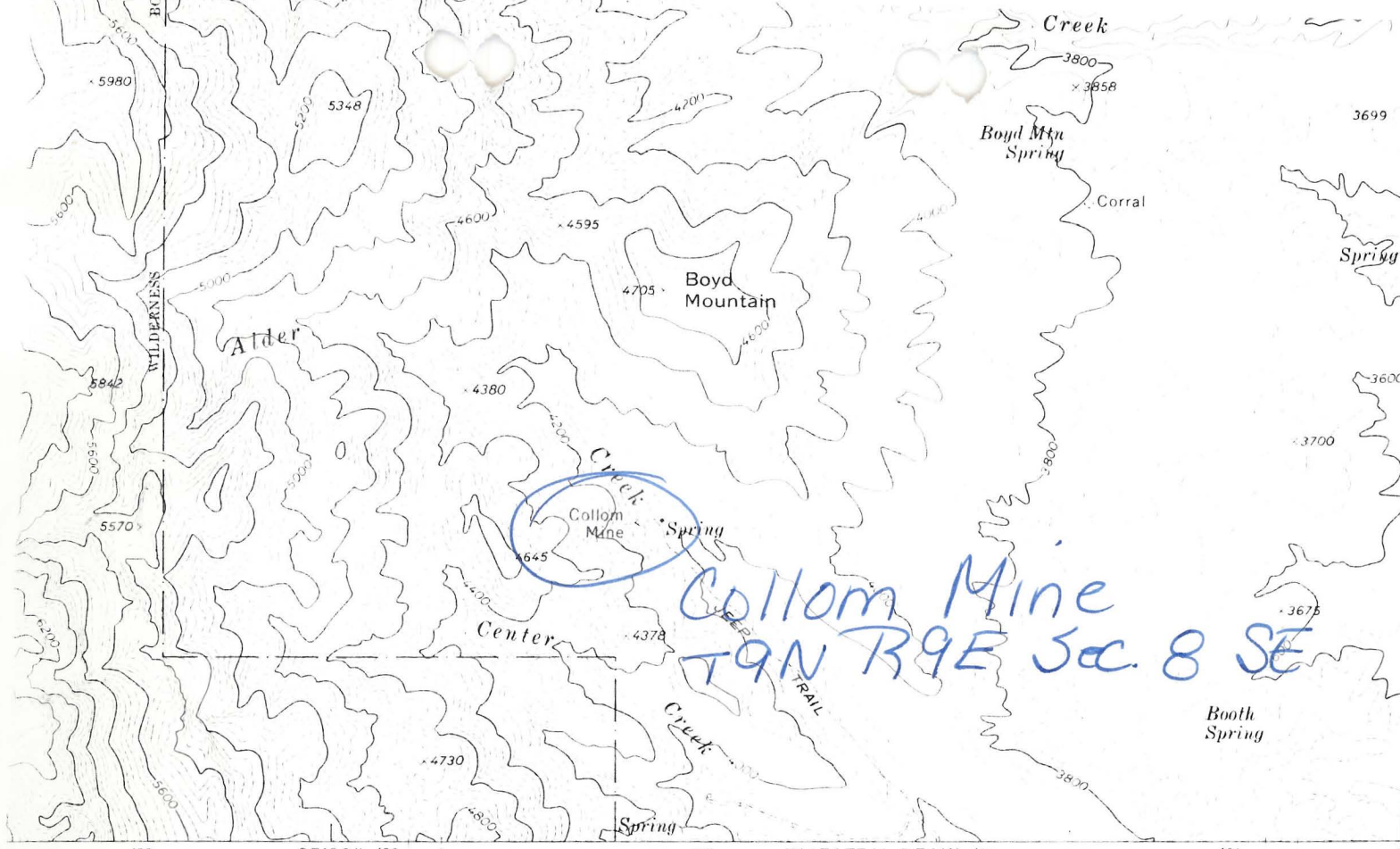
CURRENT STATUS: PAST PRODUCER

COMMODITY:

SILVER  
COPPER  
LEAD  
GOLD

BIBLIOGRAPHY:

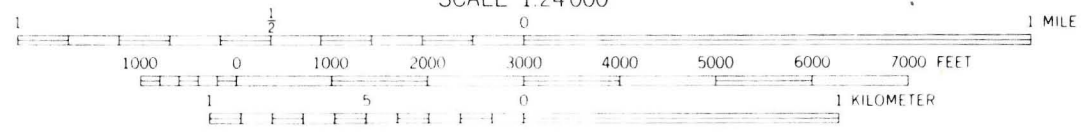
ADMMR COLLOM MINE FILE  
LAUSEN C & E D WILSON "GOLD & COPPER DPSTS  
NEAR PAYSON" AZBM BULL 120, P 7 & 42; 1915  
USAEC PRELIM RECONN RPT 172-480, P 167; 1953  
GILA COUNTY  
AZ MNG JNL, P 58; 5/20



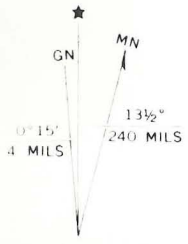
Collom Mine  
T9N R9E Sec. 8 SE

157 27'30" 158 159 (MAZATZAL PEAK) 160 161

SCALE 1:24 000



CONTOUR INTERVAL 40 FEET  
NATIONAL GEODETIC VERTICAL DATUM OF 1929



1910 AND 1973 MAGNETIC NORTH  
DIFFERENCE AT CENTER OF SHEET

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS  
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA  
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

North Peak 7.5'

S-3

MINERAL SPECIMEN FOR DEPARTMENT OF LIBRARY AND ARCHIVES

K121

R.I.

(Do not write in this space)

(Wrap each specimen separately, or place it in a substantial bag, by itself, with a number attached, identical with the number on this card.)

This specimen is now in the ADMR Museum - see K number. Cabinet

5/11-40

No.

Specimen No. 35, collected by Newton Wolcott

Field Engineer

Name of ore Silver, copper

Operator Bert Collom

Minerals contained Tetrahedrite

Mine active or inactive Inactive

If inactive, when operated Not recently

Gangue Silicious

Specimen presented by Bert Collom

Depth at which taken 100 foot level

Date December, 1939.

Approximate mineral content (in terms of average per ton) This ore carries over

Notes (Any general information regarding the history of the property.)

200 ozs. in silver as well as the copper values. This property has produced considerable

Name of mine or claim Silver Buttes Mine

ore in past years, the values being in

Group

silver, copper, lead and gold.

District Green River Mining District

Location (distance and direction by highway from what town) 10 Mi. SW of Payson

Owner of property Silver Buttes Mng. Co.

If more space is desired for notes, use other side.

1166 oz

10.0 x 9.0 x 7.0 cm



**Arizona Department of Mines and Mineral Resources**

1502 West Washington, Phoenix, AZ 85007 Phone (602) 255-3795  
1-800-446-4259 in Arizona FAX (602) 255-3777 www.admmr.state.az.us

Collom mine  
File  
Gila

March 18, 2005

Bill Berger  
Arizona Game and Fish Department  
7200 East University Drive  
Mesa, AZ 85207

Re: Collom, House and Hulse Mines, Gila County, Arizona

Dear Mr. Berger:

Thanks for the recent inquiry regarding the above referenced mines in Gila County. As we understand your request, the Tonto National Forest is investigating closing public access to these historic mines for health and safety purposes. The Arizona Department of Mines and Mineral Resources (ADMMR) has reviewed available information and enclosed copies for your use. Based on the available files, there appeared to be over 3000 linear feet of underground workings in the Collom Mine. We have included a copy of a map showing the relative locations of the workings. Records from 1940 indicate that at that time, the mine was over 40 years old; that the workings were a source of water, and that the shaft had partially caved.

Should you have any questions or need additional information, please contact me at your earliest convenience.

Sincerely,

Willis D (Doug) Sawyer  
Director  
Arizona Department of Mines and Mineral Resources

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

December 5, 1958

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

Silver Buttes Mine (Gila County) silver, copper, lead, gold  
(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

PHOENIX  
DEC 5  
7-PM  
1958  
ARIZ.



DECIDE (DECEASED)



Mr. W. B. Collom

Silver Buttes Mining Co.

Payson, Arizona

REASON CHECKED  
Unclaimed ..... Refused .....  
Unknown .....  
Insufficient address .....  
Moved, Left no address .....  
No such office in state .....  
Do not remain in this envelope  
POSTAGE DUE 2 CENTS

See Arizona Home Stake.

Mrs Piccom with  
Sister Mary E. Wilson  
Edison, Ga.



ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

INFORMATION FROM MINE CARDS IN MUSEUM

ARIZONA

MM-K121 Silver Ore

Gila Co.

16 mi. SW of Payson

Green River Mining Dist.,

Silver Buttes Mine MILS # 419

Collum Mine (file)

2-AKA

ENGINEER'S REPORT:

The Corporation Service Co.,  
121 South Central Ave.,  
Phoenix, Arizona.

Gentlemen:-As requested, I have examined the property of the Silver Buttes Mining Company, and herewith submit my opinion and a Brunton survey of the workings.

There seems to be two vein systems in diorite which are in reality fault fissures which contain ore, especially at the junctions of the two systems. All the ore near the surface shows intense leaching and the work done proves that especially good ore is not to be expected above the water level. However, the water level is at no great distance below the bottom of the winze in the main tunnel level, as this winze makes considerable water at all times and the ore coming from it is a secondary sulphide which is the result of the reprecipitation of the copper and silver values leached from the upper levels.

I would advise that in the future no more work be done above the main tunnel level as the work already done proves that the ores found there are thoroughly leached and therefore low grade. The ore from the winze mentioned above is of exceedingly good grade and this portion of the mine should be developed as rapidly as possible. I would advise the sinking of this winze for at least a hundred feet and would cut a station and install an air-hoist in the east end of the drift at this point. In all probability this winze will become the main working shaft on this part of the vein.

I would also advise the sinking of the incline shaft on the north and south vein. This vein has considerable promise of permanence and evidently contained some lenses of exceedingly high-grade ore. It is a fine, well defined fissure vein with a quartz gangue carrying gold, silver, copper and lead. It can be traced for at least 3,000 feet on the surface and shows ore in a number of places. The property needs a hoisting equipment and air compressor to do the kind of development work mentioned above, and I would advise the installation of a 15 H.P. hoist and a 60 H.P. air compressor. What this property needs is development in depth to prove its value and I believe the surface indications and the ore in sight fully warrant the necessary expenditure.

Respectfully yours,

A. F. Muter, E. M.

#### MINERALIZATION:

The bracciated mass is impregnated with iron oxides, copper and silver, which occasionally forms segregated masses of considerable dimensions and value, though somewhat irregular.

The cross-fissures, beyond the shear zone, are mineralized with auriferous quartz and "bunches" of almost pure argentiferous galena. This ore very often assays from 10% to 15% copper and 100 oz., silver, but at present is too irregular to be of much importance.

Where the intersections of the two systems occur mineralization is most intense and gives rise to large masses of calcite and quartz, impregnated with Argentite, Tetrahedrite, and their decomposition products. Sufficient depth has not yet been obtained to reach unaltered ore, but it is probable that water level will be reached at a depth of 250 feet below the intersection of these two systems. The outlook at that point is very promising. Low grade milling ores are abundant any where within the bracciated zone, near the fault fissures, but it is much altered and impoverished by leaching. Residual sulphides assay 150 oz., silver, and this high assay value of the sulphide ore forms a flattering indication of what will be encountered when water level is approached.

On the Butte vein the gangue is entirely quartz while the minerals include Chalcocite, Argentite, Tetrahedrite, Galena and all Oxidation products. The silver contents will range from 25 to 300 oz., gold from \$2.00 to \$15.00, and copper from 2% to 12%. The width of the vein is from 2 feet to 7 feet, and the dip about 60 degrees to the west. For many years the cost of assessment and development work has been defrayed from smelter shipments of the high grade ore. The heavy cost of shipping under present conditions suggests the necessity for the erection of a flotation plant. Course crushing and wet concentration will allow of a 70% extraction and a high grade concentrate will result. The expense of this will be small owing to cheap fuel and power to be generated on the company's property.

More than fifty thousand dollars (\$50,000.00) has already been expended on the development of this property, covering a period of approximately 20 years; much of this work of course has been exploration work, and not of material value in opening up the property, but the greater amount of work done has been of permanent benefit to the development of the property, and has resulted not only in the shipment of con-

siderable high grade ore, but also a large tonnage of low grade milling ore has been mined and is ready for treatment as soon as the proper milling facilities can be installed. High grade shipments of ore to the El Paso and Hayden plants of the American Smelting & Refining Company gave shown returns running from 120 to 500 oz., of silver and from 7.02% to 15.4% of copper.

SHIPMENTS:

While ore has not been blocked out in commercial quantities, due to the fact that sufficient depth has not yet been attained, various shipments have been made from time to time for many years which give evidence of the character of ore to be found at water level.

The most recent of these shipments disclose the following values per ton at present prices quoted on silver and copper:

PARTIAL ORE SHIPMENTS

Hayden, Smelter lot No. 1100

Car No. 87635.

		Lbs.			
Silver	176.4 ozs.	95%--167.58	at	.76	127.35
Copper	9.31%	166.2	at	.37	61.49
Iron	7.00%		at	.05	.35
			Value per ton		<u>189.20</u>

-----

Hayden, Smelter lot No. 53

Car. No. 17980.

		Lbs.			
Silver	121.2 ozs.	95%--115.14	at	.76	87.51
Copper	7.02%	120.4	at	.37	44.55
Iron	6.9%		at	.05	.35
Lime	1.00%		at	.05	.05
			Value per ton		<u>132.46</u>





MS-31

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA

FIELD ENGINEERS REPORT

Date January 24, 1940.

Engineer Newton Wolcott

Mine Silver Buttes Mine

District Mazatzal Mining District

Location 10 Miles SW of Payson, Gila Co.  
in Mazatzal Mts.

Former name

Owner Silver Buttes Mining Co. ✓

Address

Operator

Address

President W. B. Collom ✓

Gen. Mgr. W. B. Collom

Mine Supt.

Mill Supt.

Principal Metals Silver, copper, lead, gold. ✓

Men Employed

Production Rate None at present

Mill: Type & Cap.

Power: Amt. & Type

Operations: Present

Inactive except

SILVER BUTTES MINE

Ag, Cu, Pb, Au

Gila

4 - 1

T 9 N, R 9 E

Silver Buttes Mng. Co.

'40

Operations Planned

Further underground development when company able to finance.

Number Claims, Title, etc.

33 Unpatented Claims in Tonto National Forest.

Description: Topog. & Geog.

Steep and heavily brush-grown country in the foothills of the Mazatzal Mountains. The property lies on the north slope of the mountains at an elevation of 4000 feet above sea level. There is considerable oak and juniper timber on some of the slopes and in the canyons, and numerous sycamores along the stream beds.

Mine Workings: Amt. & Condition

There has been extensive underground development, consisting mostly of tunnel work. Tunnels, cross-cuts, and drifts total approximately 3000 feet. Most of these workings are open and accessible. There is also a shaft 100 feet in depth which is caved at the collar, and an open raise between three tunnel levels. The raise is 100 feet in length.

(over)

Geology & Mineralization

porphyry and schist. Numerous zones of fracturing traverse the area, and considerable mineralization is evident along various of these zones. Mineralization consists of hematite, limonite and quartz which in places is accompanied by chalcopyrite, tetrahedrite, galena, copper carbonates and silver chloride. The mineralized zones vary in width from two to twenty or more feet. The dip of the veins is uniformly steep. The best ore is found in cylindrical shoots or chimneys which have been formed along old water courses. At one point on the property there is a massive quartz ledge which may be traced for several hundred feet, and upon which there has been very little work done.

There is an unestimated quantity of ore on various dumps, some of which appears to be of a very good grade.

Mine, Mill Equipment & Flow Sheet

There is a blacksmith shop on the property as well as residence buildings, but no mining equipment of any sort.

Road Conditions, Route

The property is reached by a very fair country road and is seven miles from the main Roosevelt-Payson highway. Turn west from main highway at foot of Ox-Bow Hill and follow signs to property. Signs are marked "Collom Cabin".

Water Supply

There is a fine running stream on the property, and although this dries up in the summer months, there is always water available from one of the tunnels on the hill near the living quarters.

Brief History

Mr. Collom, the president and general manager of the company was the original locator of the ground covered by these claims. The location was made over forty years ago. As stated above, development work has been extensive, but it appears that a wiser choice might have been made for the location of much of this work. Many thousands of dollars have been spent where the same information could have been gained with far lower cost. There has been considerable ore shipped from the property at various times, and values of shipments have varied from less than \$20 to more than \$100 per ton. Silver has been the chief valuable constituent.

Finances for intelligent development work are the main need of the company.

Remarks

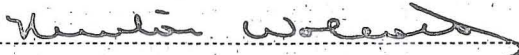
The company also controls contiguous groups of claims not covered in this report.

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

The company is willing to negotiate with responsible parties who wish to do something with the property.

Communicate with Mr. W. B. Collom, Payson, Arizona.

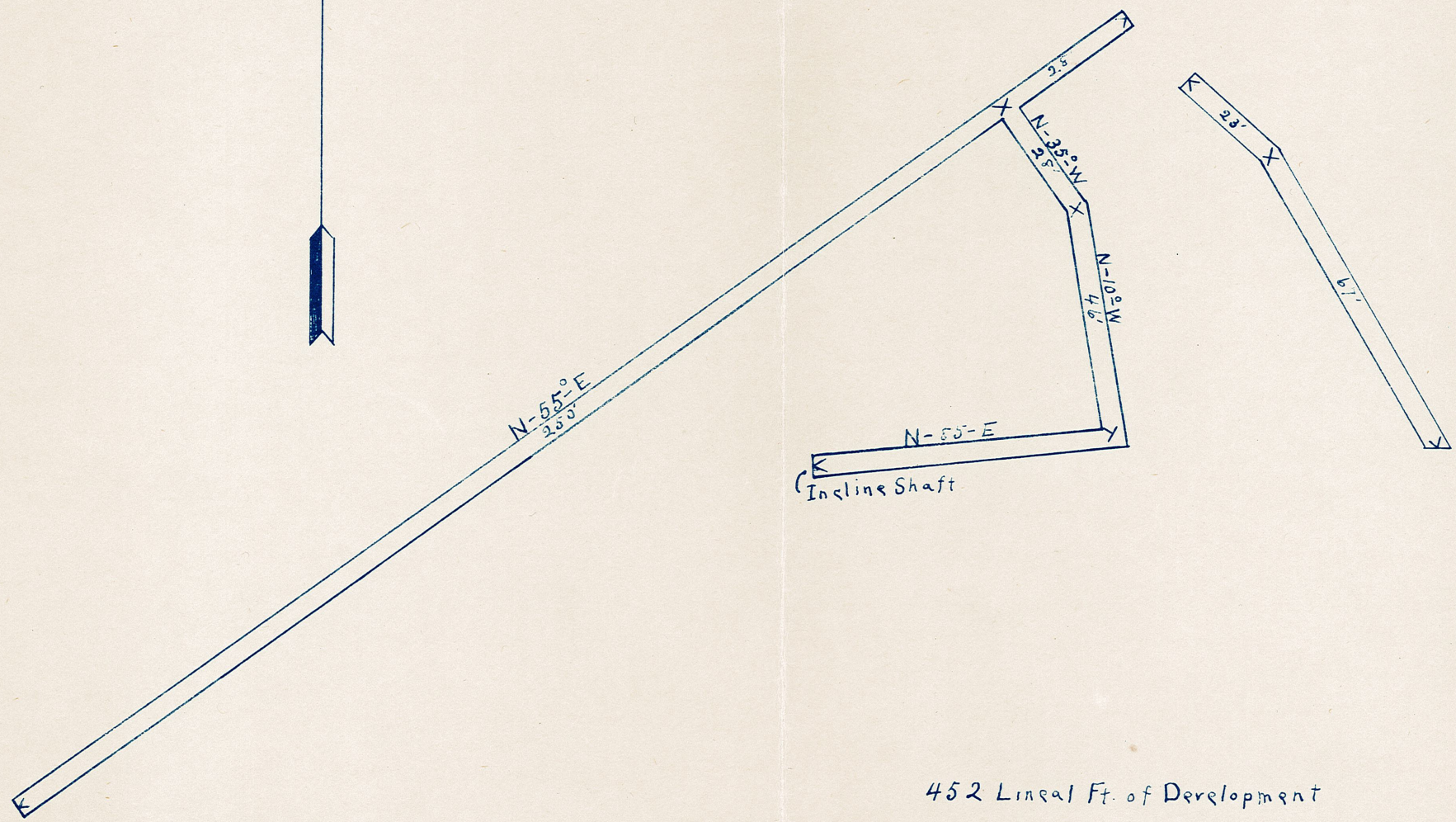
Signed.....



Use additional sheets if necessary. Separate sheets on each problem.

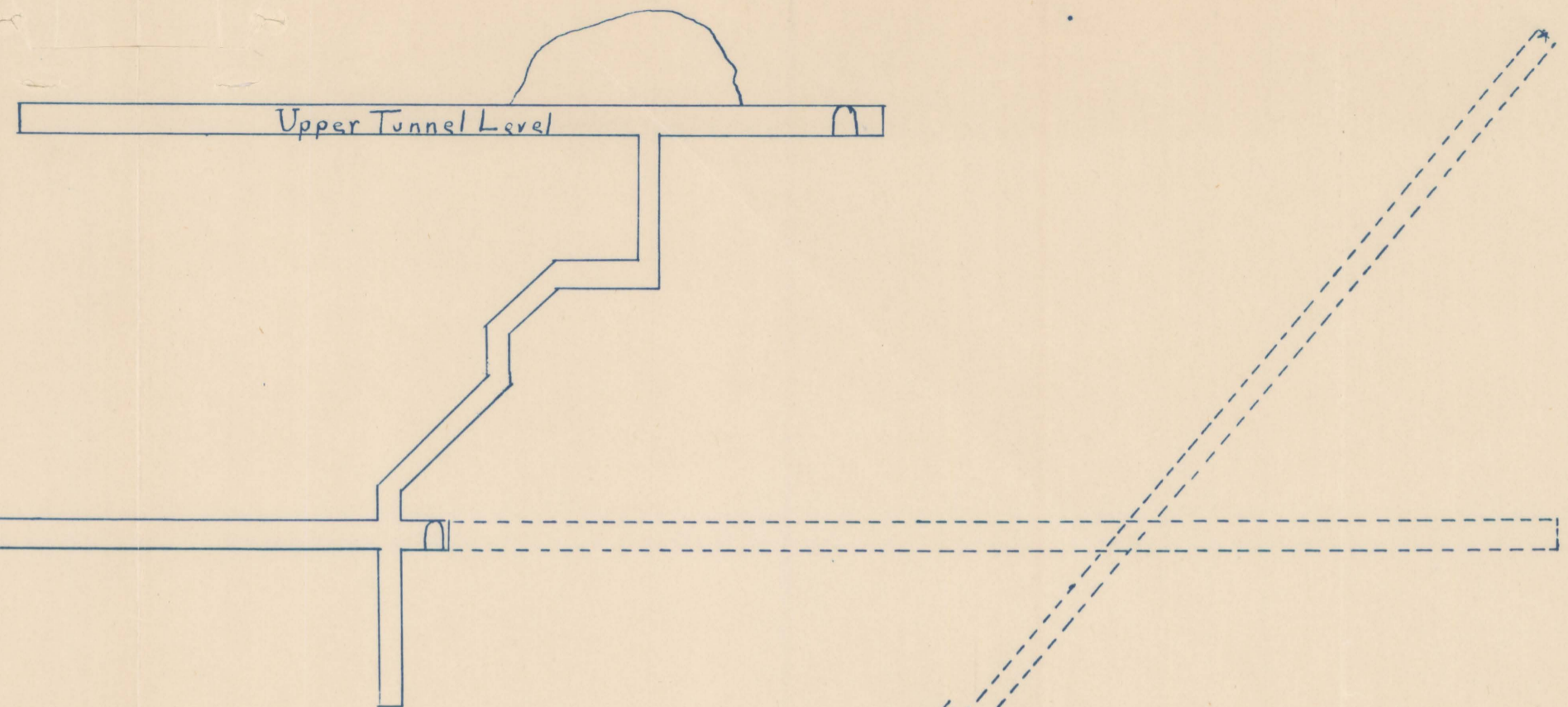


N

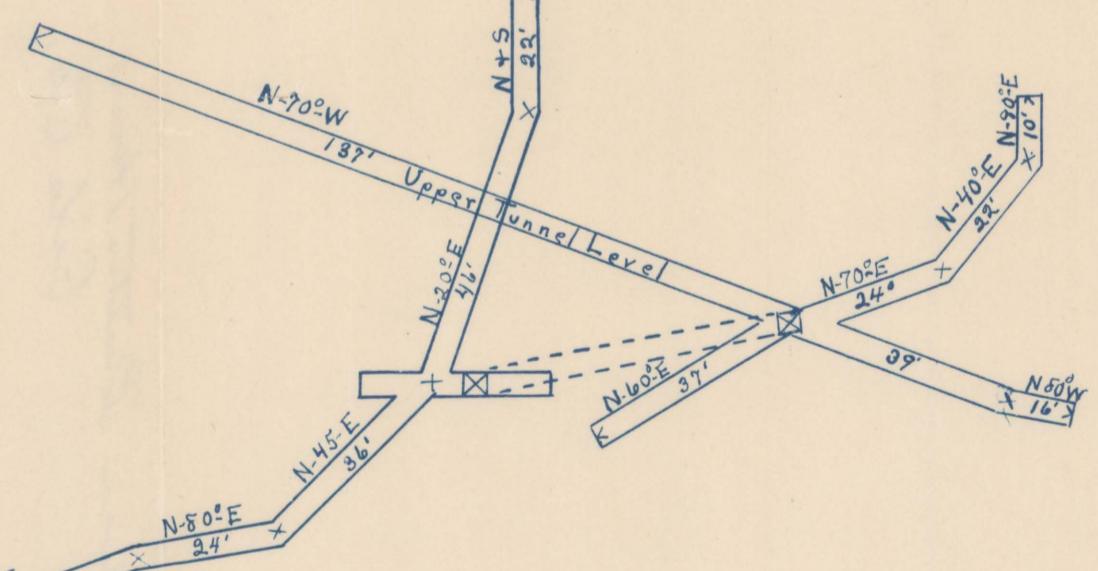


TUNNEL ON N & S VEIN  
SILVER BUTTE

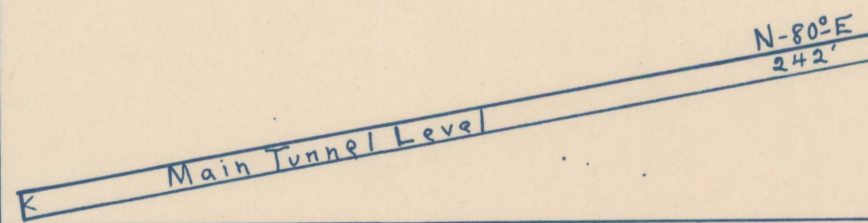
452 Linear Ft. of Development



N-40°E  
108'



930 Lineal Ft. of Development.



DWR Silver Butte Drain Ebb