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BONITA CLAIM

Mohave County (White Hills District)

27N. 20W. 14

SEE: White Hills Mine (file)

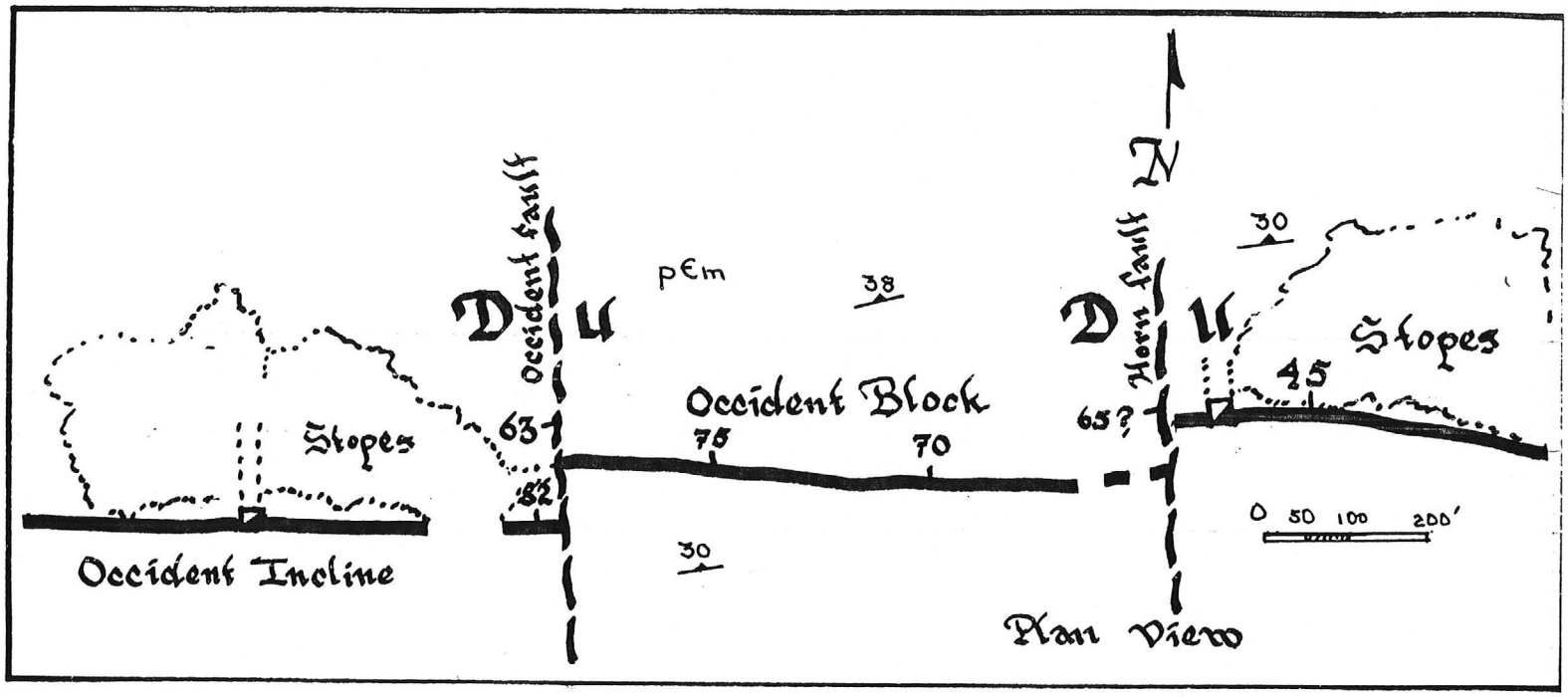
The White Hills Mines
Indian Secret Mining District
Mohave County, Arizona

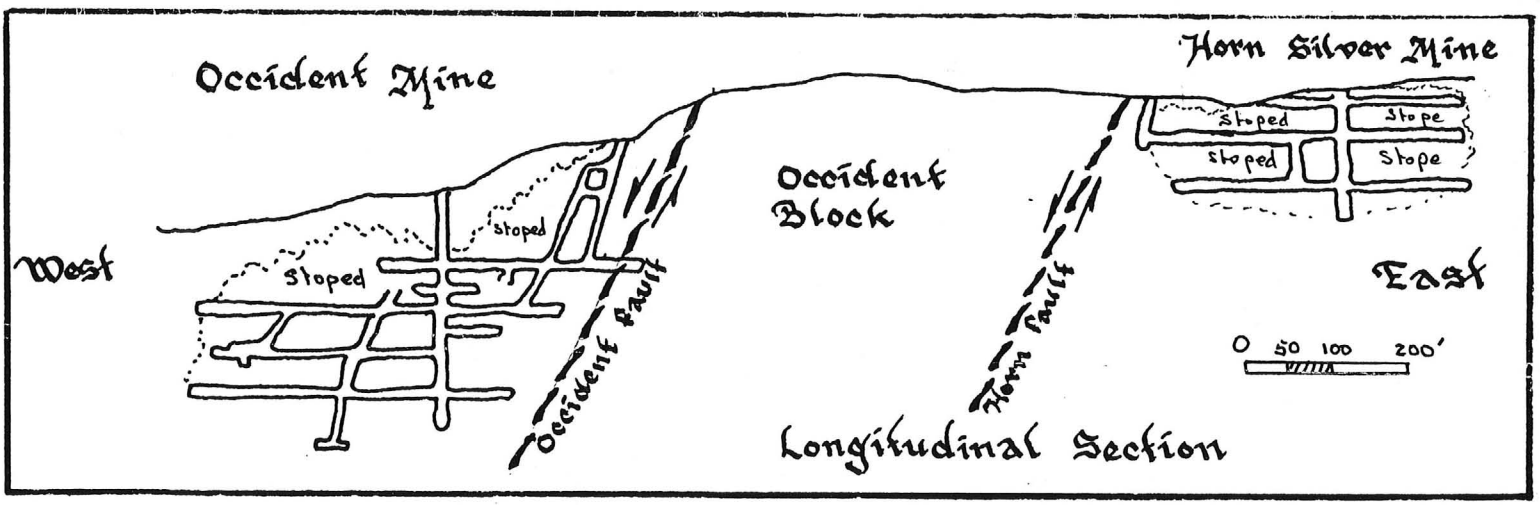
HISTORY

The Hualapai and Paiute indians had long used the iron and manganese oxides associated with the White Hills veins as paints and to adorn their faces. The district was "discovered" in 1892 when an indian named Hualapai Jeff showed some rich silver ore from the tribe's secret place to Henry Shaffer, who was mining and prospecting in the Gold Basin area. Shaffer staked the ground, called it Shaffer's Treasure, and began mining. Some of his ore ran 1,000 oz. of silver per ton, and when word of the rich find leaked out, a mining boom ensued. The White Hills Mining Company was formed by R.T. Root and D.H. Moffat, two Denver based mining men. They sold the property in 1895 to an English company that erected a 40-stamp mill, built roads, installed an elaborate water supply system (the hand-built reservoir south of Shaffer's Treasure is still extant) that included 7 miles of 7 inch wooden pipe line, and built an electric light system. The district produced steadily for a 10 to 12 year period. It was worked by lease miners who would follow the rich ore-shoots until they either pinched out or were faulted off (as at the Occident/Horn Silver area), then would go to another vein with ore in sight and work there. A thorough and systematic exploration program has never been implemented on the property. In 1909 a disastrous flood practically wiped out the town of 1,000 to 2,000 inhabitants, and the camp never recovered from this catastrophe.

GEOLOGY

The host rocks are migmatite gneisses and granites, with local amphibolite pods. The schistosity strikes app. N 35°E with a gentle (15° to 20°) dip to the northwest. To the east, these rocks appear to be overlain by a grey, vesicular hornblende andesite or latite, which is capped by a black vesicular olivine basalt flow. The migmatites are cut by numerous veins which strike approximately WNW and dip to the north at 25° to 75°. These veins vary from one to three feet in width and consist of iron- and manganese-stained quartz and clay gouge (shear zones). The ore is cerargyrite (AgCl), occuring as vug-fillings in the quart veins and as fracture fill in shear zones. Assays in excess of 1,000 oz. per ton have been reported, but the average grade was probably 25 oz. or less. Most of the dumps have been reworked (they were much





Occident Mine & Horn Silver Mine area. The block of ground between these producers has not been adequately tested.

After Schrader, 1908, p. 135

more extensive), and are said to have averaged 6 to 7 oz.

There are local values in gold on the property. The EMMA veins were said to be particularly auriferous, and we have assays from the Hulda/Review area of 0.68 oz/ton over narrow intervals. Total production from the district is probably 6 to 8 million ounces of silver and 5,000 oz (or less) of gold.

STRUCTURE

The veins are offset by high angle post mineral normal faults trending N-S and N65°W. There are two vein sets: an (older?) low angle (20° to 30°) set that appears to have been truncated (at least in the GAR area) by a higher angle (60° to 75°) set. Good production has been realized from both vein types, although the low angle veins appear to have carried richer ore. There are also numerous low angle bedding plane faults that are difficult to delineate except where they cut high angle structures (Wootsie Tootsie area).

DISCUSSION

The following points are significant:

1) Oxidation and enrichment occurs throughout the veins in the district. The ore is always cerargyrite (AgCl), and no sulphides (except for very minor pyrite in the Review area) have been found. The Occident and Norma mines have been developed in excess of 500 feet deep, always in oxide ore.

2) Many of the veins appear to be listric structures: ie, they flatten with depth. A particularly good example of this can be seen at the Africa shaft.

3) Many of the veins are shear zones with minor listric type structures displayed within the shears.

4) The White Hills do not appear to be bounded on the west by a normal basin and range fault. Depth to the basement in the center of the valley over a mile west of the camp is probably 800 ft. or less.

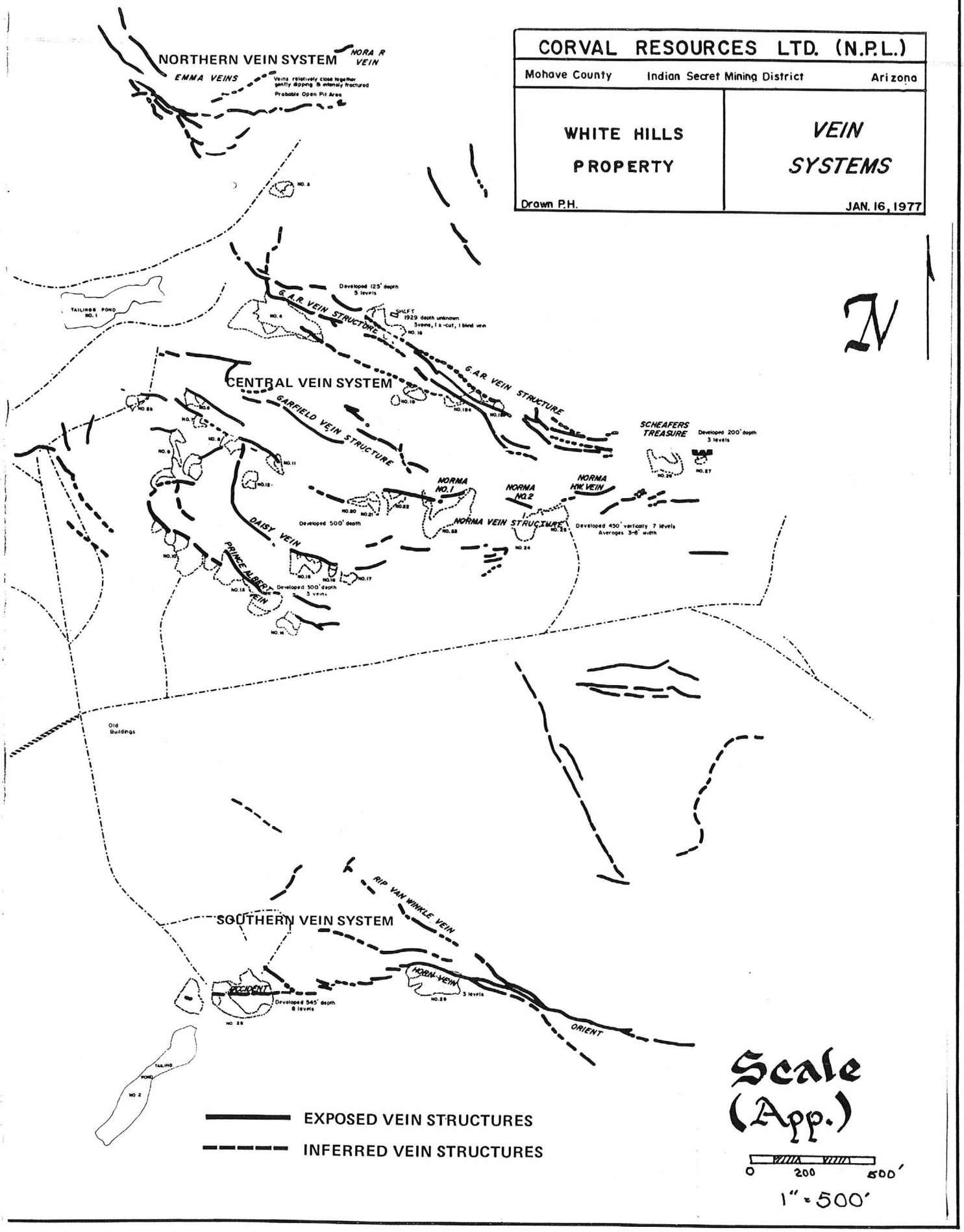
5) There are reports that a deep hole three to four miles west of the White Hills passed through three or more parallel horizontal structures.

6) There are no intrusive rocks nearby to credit as a source of mineralization, although Gulf is said to have drilled a small porphyry copper deposit 7 or 8 miles west of the area.

We see then, that there are many characteristics present that suggest that this is an extensional terrane. Accordingly, the following scenario may explain the mineralization at White Hills:

1) Upper plate movement over the lower plate boudin at White Hills resulted in the formation of high angle fractures in the lower plate subdetachment zone.

HU_A - REVUE FURTHER NORTH



2) These structures flattened with continued movement of the upper plate and were cut by subsequent high angle fractures.

3) Silver, carried as a chloride complex by meteoric water circulating through the upper plate (and derived from an admittedly nebulons source), was deposited in both vein sets.

4) Because the low angle sets are older they have been subjected to greater enrichment.

5) The upper plate is eroded and the volcanic rocks extruded.

After that, its only a matter of time before Hualapai Jeff sells the tribal secrets to the white man and the hunt is on.

Granted, there may be problems with extensional direction, Ag/Au ratios, MAGMA CHEMistry and so forth. Those who wish to express their opinions concerning these matters should feel free to contact me.

Ed Huskinson Jr.
845 Ridgecrest
Kingman, Arizona 86401
(602) 757-8228

SELECTED NEW CONTRACTS, INVESTMENTS, EXPANSIONS, AND EXPLORATION ACTIVITIES: UNITED STATES

DECEMBER 1983 - JANUARY 1984

Commodity and Company	Operation and/or Location	Action or Event	Notes
(IRON AND STEEL)			
Lone Star Steel Co.	Lone Star, TX.	Restarted iron ore mining and pig iron production after 15-month shutdown; 250 workers were recalled.	Company was affected by drop in demand by the oil and gas industry in 1982 because of reduced consumption and excess inventories of pipe and tube.
Reserve Mining Co.	Babbitt, MN (mine), Silver Bay, MN (plant).	Resumed limited production on Jan. 3. 1,000 employees recalled.	Facilities had been closed for 14 weeks.
Rouge Steel Co. (subsidiary of Ford Motor Co.).	Dearborn, MI.	Announced plans to construct a $200 million continuous casting plant beginning in early 1984 with operation to start mid-1986; caster will allow Rouge to cast about 50 percent of the plant's raw steel production, or 1.9 million tpy.	Ford obtained wage and benefit concessions Sept. 1983 from the United Auto Workers in return for a promise to modernize the plant and keep it in operation.
SMI Steel Inc. (subsidiary of Commercial Metals Co.).	Birmingham, AL.	Purchased a closed Connors Steel Co. minimill for $6 million; planning to reopen in summer of 1984 and use scrap metal to make reinforcing bars and various products used in construction.	Full production of 240,000 tpy to be reached in 1986; 350 to 500 workers will be trained by the State Industrial Development Division.
U.S. Steel Corp.	Fairfield Works, near Birmingham, AL.	Announced agreement with union workers concerning reopening of the Works; company will restart steelmaking operations, recall about 2,500 workers in 1984, and install a $100 million continuous slab caster.	The continuous slab caster and other equipment installed in recent years together with a recently completed seamless pipe plant will make the facilities competitive with other steel operations.
"	Geneva Works, near Orem, UT.	Restarted 2d blast furnace and 5th open hearth furnace; 200 workers to be recalled.	
Wheeling-Pittsburgh Steel Corp.	Allenport, PA.	Reopened pipe mill; 200 workers were recalled.	
NICKEL - see COBALT AND NICKEL			
PHOSPHATE			
Amax.	Piney Point plant, Manatee County, FL.	Announced plans to resume operations at plant producing diammonium phosphate (DAP) early in 1984; 225 workers will be recalled.	
Noranda Mining Co.	Near Plant City, FL.	Developing a 500,000-tpy mine; production is scheduled for 1986.	The company plans to export production from the mine.
SILVER			
Bunker Hill Limited Partnership.	Bunker Hill mill, ID.	Reopened the Crescent circuit of the mill to process ore from the Crescent Mine, which resumed operations in Oct. 1983.	
Continental Silver Corp.	Review Mine, AZ.	Began initial production averaging 50 mtpd of ore.	Production goal is 200 to 300 mtpd of ore. Average ore grade has ranged from 20 to 30 ounces of silver per ton.
Homestake Mining Co.	Bulldog flotation mill, Creede, CO.	Resumed secondary recovery of silver in December by cycling tailings from the mill.	Homestake, the largest silver producer in Colorado, had closed the carbon-in-pulp circuit at the Bulldog mill.
Sunshine Mining Co.	Kellogg, ID.	Awarded contract for refinery expansion from 1.2 million ounces per year to 8 million ounces per year. Project to be completed in late 1984.	

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine	White Hills Mine (file)	**Date**	June 4, 1982
District	White Hills (Mohave County)	**Engineer**	Nyal J. Niemuth
Subject:	Mine Visit		

A visit was made to the White Hills Mine and manager Ray Kerby supplied the following information.

Current silver prices (around $6.00/oz) have adversely affected operations. Costs have been trimmed by reducing the number of employees to fifteen and by temporarily halting the mining of new material from the Hulda. Production continues from old dump material at the rate of 100 tons per day (TPD). Fifty TPD of fines are processed in agitation tanks. Coarse material is currently vat leached at a rate of 50 TPD, although a capacity of 100 TPD exists.

Silver recovery is from a Merril Crowe zinc precipitation type unit built at the mill site. The Escapule unit that was previously used has been taken out of service and sold. The current unit has a capacity of 30 tons of solution per hour. The final products produced are 20 pound Dore bars that contain about 95% silver and 2-3 ounces of gold. Water for operation is pumped from the GAR and Occidental shafts and from a water well north of the operations and is put in a storage tank until needed.

Development and exploration continue at the GAR mine. The geology of GAR is a series of narrow veins striking west, dipping on average 35° north. The GAR shaft is relined and open to 400 feet. An old cross cut drift on the 400' level was cleaned out and extended further north where it intersected a fifth vein. Also from this cross cut a 125 foot drift was made west on the main vein. At this point a raise was driven up and the new north vein intersected and drifted on. Currently the main and new north vein are being long hole drilled.

cc: Tucson Office

Abstracted 9/24/80 mjw

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

(F.E.)

Mine: WHITE HILLS

Date: September 16, 1980

District: WHITE HILLS (Mohave County)

Engineer: C. J. Hicks CJH

Subject: Field Interview with:

Corwin Coe, Resident Manager
Corval Development Inc.
Box 3905
Kingman, Arizona 86401
Phone: (602) 767-3695

Crews are retimbering the GAR shaft. They are now down 60-70 ft. A head frame has been installed. The shaft and mine workings will be pumped out and sampled. The water will be piped to the mill which is to be expanded to a production scale from its present pilot plant stage. The present water well (400T/day) is not producing enough to accommodate mill expansion. It is estimated that full production will be attained in six months from date. The Escapule unit will be used for the time being, but they are building their own recovery plant.

A new piece of equipment is being installed. A Pioneer 35-S which is a combination crusher, screen and stacking loader. About 50% of the material will go to agitation leach circuit and 50% to submersed vat leaching (pachuca type).

They are now employing 15 men, most of whom are working on the GAR shaft.

Corval has been developing the Hulda Claim (patented) one-half mile due west of the GAR shaft. They have driven a decline down 50 ft., intercepted a 5 ft vein of 20 oz. Ag/st ore. They then drifted 300 ft on the vein. They shut down this operation about three months ago. Plans are to reenter the vein in about six weeks and start stoping. They will then continue the decline to intercept another vein at the 100 ft level. These veins are on strike with those opened up in the GAR Mine.

CJH:mw

WHITE HILLS MOHAVE COUNTY

ABM Bull. 125 p. 97 (GAR)

Map - showing claims (Cabinet Sec. 5)
" of White Hills Silver Mining Co.

Mr. Charles Kunkas is owner of these claims. 6/29/76 - verbal report to JHJ 6/68/76

Mr. Floyd Brown was named Superintendent of the mine. VBD/WR 3-22-77

Corval Development is mining here. WR KP Week ending 4-29-77

WR KP Week ending April 29, 1977

Bryon Boon-Department of Economic Security called to inquire about the metals mined by Corval Development at the White Hills Mine. Although we have no reference to such a firm, it is likely that the White Hills Mine in Mohave County is or would produce silver. Boon reported that Corval Development has filed with the unemployment insurance division as having 16 employees at the White Hills Mine. The Company has reported to have begun operations on February 15, 1977. They are a Nevada Corporation incorporated in July of 1972 in that state. The corporate office is in care of Rudolph Martin, 705-900 W. Hastings Street, Vancouver, B. C. The mine address is in care of Floyd Brown, 1885 Airway, Kingman, Arizona 86401.

Telephone Call: 6/10/79 from Doug Martin to Mr. Jett: Corval Corporation, a Canadian company, ~~also~~ parent company of Arizona Silver Corporation (incorporated in Nevada) is working White Hills Mine - Mohave County. Pads are built, cyaniding plant will be picked up from Tombstone in two weeks. 45,000 tons of tails to start with.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine White Hills Date August 30, 1979

District White Hills Engineer C. J. Hicks

Subject: Field examination and interview with:
Corwin Coe, Resident Manager
Aricon Mining (Corval Development Inc.)
Box 3905
Kingman, AZ 86401
ph. (602) 767-3695

Corval Development Inc. is setting up a cyanide leach operation to extract silver from the dump and mill tailings of the old White Hills operations T 27 N, R 20 W, White Hills Mining District, Mohave County, AZ. Only foundations remain in the ghost camp of White Hills although there is a new housing development about 1½ mi. to the east called Golden Horseshoe Estates. Mr. Coe has a home there.

The operation, which was begun in May 1979, will start at the pilot plant level with design allowances for expansion. Mill tailings run low in Au (0.02oz./st) but good in Ag (4.5-5.0oz./st). Mr. Coe hopes to get 60-70% extraction. If the recovery is favorable the life of the tailings will be one year---less if larger slurry tanks are installed. They also have 5000st of fines which will be processed.

Dump material will initially be treated without crushing. Recovery is anticipated to be low, perhaps 25% from two 300st. vats. If the operation is satisfactory they will probably install a 14in.x 20in. crusher within six months.

If the capital outlay for the pilot plant can be retired consideration will be given to reopening the mine. They did try to go underground about two years ago in the GAR vertical shaft. Repair was accomplished to a depth of 250ft., which is 50ft. below the water table, and found that someone had set off a very heavy blast creating a 20ft. cavity and a mess.

The water supply comes from a well pumping 25gals./min. into a 20,000 gal. storage tank.

Four agitation leaching vats (8ft. x 8ft.) are on their way from Salt Lake City, Utah. When installed they will agitate the mill tailing slurry for 10-12 hrs. in a cyanide solution at a pH of 11. The White Hills ore contains no sulphides to lower the pH.

After agitation the slurry will be pumped to four 10,000gal. settling tanks and the pregnant solution decanted and pumped to a plastic lined storage pond. Of some concern, at the moment, is the removal of the spent tailings from the settling tanks.

The pregnant solution storage pond (est. 100ft. x 75ft. x 4ft. deep) is lined with plastic sheet (Griflon 85, Griflon Manufacturing Co.,

Houston, TX). Mr. Coe is not satisfied with the strength of this liner and will probably cover it with 6in. of mill tailings. The liner was designed, however, to contain solutions of this nature.

From the storage pond the pregnant solution is to be pumped to an Escapule zinc powder type recovery unit with a capacity of 300st of solution/day. The Escapules also make a smaller 65st/day unit. The recovery unit is in place.

For future design decisions the dumps are now being tested and screen analyses being conducted. Mill tailings may have to be ball milled prior to charging the leaching vats.

They do not have a bullion furnace as yet.

Estimated expenditures for installing the pilot plant operation is $120,000.

AR ONA DEPARTMENT OF MINERA RESOURCES
Mineral Building, Fairgrounds
Phoenix, Arizona

1. Information from: T. McKee, foreman
   Address: Las Vegas Star Route, Box 962, Kingman
2. Mine: White Hills Mines (Occident, Horn Silver, Norma, Garfield, Hidden Treasure, Prince Albert, etc)
3. No. of Claims - Patented ?
   Unpatented ?
4. Location: 45 mi N on Hy 93, then 4 mi on White Hills Road.
5. Sec ____ Tp ____ Range ____
6. Mining District White Hills.
7. Owner:
8. Address:
9. Operating Co.: Consolidated Minerals
10. Address: 1201 ~~Bue~~ Buehler Ave., Las Vegas.
11. President: ~~Stephen~~ Steven Lewis
12. Gen. Mgr.: Ray Kerby
13. Principal Metals: Ag
14. No. Employed: 6
15. Mill, Type & Capacity: Cyanide, 100 TPd
16. Present Operations: (a) Down ☐ (b) Assessment work ☐ (c) Exploration ☐
    (d) Production ☑ (e) Rate 100 ~~TPd~~ tpd.
17. New Work Planned: They are constructing a flotation unit started construction 2/68 and may add grinding unit. At present mine dumps are screened 3/4" is then cyanided for 4 days. recovery reported to be 60%
18. Miscl. Notes:
    Water taken from Occident shaft. water at 600' level, shaft is 800' deep. The Garfield shaft 750' deep is to be timbered and used as source of water. Domestic water is hauled from well near Hy. 93

Date: 11-13-68

F. T. Denson
(Signature) (Field Engineer)

SILAS C. BROWN & ASSOCIATES

GEOLOGICAL CONSULTANTS

TEST AND VALIDATION DRILLING PROGRAM OF THE WHITE HILLS CLAIM GROUP MOHAVE COUNTY, ARIZONA

FOR:

ARIZONA SILVER CORPORATION

VANCOUVER, B. C., CANADA

BY:

CHARLES R. WARD CORPORATION

SILAS C. BROWN, GEOLOGIST

PHOENIX, ARIZONA

JULY, 1977

REGISTERED GEOLOGIST
CERTIFICATE NO.
4702
SILAS C.
BROWN
Date Signed 7-21-77
ARIZONA, U.S.A.

SILAS C. BROWN & ASSOCIATES

GEOLOGICAL CONSULTANTS

ARIZONA SILVER CORPORATION

WHITE HILLS CLAIM GROUP

INTRODUCTION

Livgard Consultants Ltd. wrote a summary report on the "White Hills Silver Property" dated February 11, 1977. This report is a compilation from several reliable sources and includes rather pertinent data related to geology, history of production, mine workings, mineralization and an abundance of other data pertinent to the White Hills property. Rather than repeat these data, this report covers the results of a drilling program conducted between June 29 and July 8, 1977.

The writer made the test and validation hole locations and supervised the drilling of each. Close liaison was maintained with Mr. Floyd R. Brown on all phases of the drilling program.

A down-hold hammer Halcodrill, using a 3½ inch button bit, was used throughout the drilling program. An Atlas Copco sample mixer was used to collect the well cuttings. The mixer uses an air tank, operated on a vacuum to thoroughly mix the cuttings before they enter the sample bag. When vein material was encountered, the flexible 6-inch pipe was cleaned after each sample.

Most of the drilling constituted validation holes. Two of the holes were a combination of test and validation, however, no cuttings were encountered to justify assays.

Data sheets were prepared for each test and validation hole. All pertinent data related to that hole was posted on that sheet. The data sheets show the claims which were validated by that particular hole.

The base map, showing the location of the claims, was prepared from base maps furnished by Corval Development Inc.

CONCLUSIONS & RECOMMENDATIONS

Although, no mineralized zones were encountered in the two test holes, past mining operations showed silver to occur throughout the veins with economically rich pockets. It is very doubtful that the claims have been "mined-out" since only the unusually rich ore pockets were mined when silver was worth about 60¢ per ounce.

It is believed a sulfide ore body exists with depth but in excess of present day economics.

Exploration of the various veins laterally from various shafts should be undertaken in an attempt to locate high-grade silver ore bodies. The most reliable and cheapest method is to expose the veins (and faults) with a dozer, cut proper samples for assay, then drill to test the extent of the enrichment as indicated by the assays. A more detailed geological survey to trace the veins and faults should be completed prior to the dozer work.

As recommended by Livgard Consultants, a logical place to start exploration work is laterally from the main shaft of the G.A.R. patented claim because of known favorable vein development in that area. A particularly favorable condition for silver enrichment is where several veins intersect. Surface dozer work would uncover these intersection areas to show the attitude of the veins and so that proper representative samples may be taken.

Some of the G.A.R. veins are tracable to adjacent claims. Several other claims have been worked extensively and further exploration, as outlined above, should be considered. The most favorable are the Norma, African, Daisy, Prince Albert and Occidental claims. Here again, a more detailed geological survey is required.

LOCATION, TYPE OF CLAIMS & FOOTAGE DRILLED

The White Hills claim group is situated in Sections 11, 12, 13 & 14, T. 27 N., R. 20 W., G&SRPM, Mohave County, Arizona.

This group consists of 36 patented claims, 11 mill sites and 64 unpatented claims. The unpatented claims are named White Hills #1 thru #62 and Pat #1 & #2.

All of the holes drilled on the White Hills group were validation holes, although, #9 and #10 were tested for ore. Neither test indicated vein material worthy of assay. All unpatented claims were validated except White Hills #1-3 and #25-28.

A total of 480 feet were drilled as test and validation holes on this property.

ASSAYS

No assays were taken since all were validation holes and well cuttings did not indicate mineralization of commercial value.

GEOLOGY AND STRUCTURE

The country rock in the area is a highly complex mixture of crystalline granitic rocks of pre-Cambrian age. Most of the surface outcrops consist of light gray to light brown, medium grained gneissic granite. The granite varies widely in content, with quartz, biotite, phlogopite mica and manganese being the most common minerals. These and other minor minerals may become abundant locally. Good pegmatite material was observed in wells drilled on the south side of the property, particularly in the White Hills #10 hole.

The general attitude of the veins vary locally, however, most veins strike North 65 to 85 West with northerly

dip from about 20 to 85 degrees. Secondary linements may vary somewhat from these attitudes.

The weathered, oxidized veins are generally reddish-brown and consist of quartz, biotite, hematite, limonite, manganese and minor minerals. Unweathered vein material may range from dark gray to light brown due to varying degrees of oxidation.

Previous reports showed that old mine workings encountered several veins with very rich pockets which assayed as much as 6000 to 7000 ounces of silver per ton. All veins immediately north of the White Hills claims were mineralized and this condition should hold throughout the area. The objective is to locate the enriched zones by the exploration methods outlined above.

The medium to dark gray, dense, very hard rock encountered in White Hills #52, #46 & #9 is apparently Cretaceous volcanics. Local drillers and miners refer to this as "Blue granite"which is a misnomer. Cretaceous volcanics crop out on or near the Schaefers Treasure and Goad Stick claims. This outcrop may be the source of the flow westward. The flow lies on top of the basement rocks and under the surface gravels. The flow may change to a sill-like deposit or as a dike near the source.

Quaternary basalt flows occur along the eastern side of the White Hills property. Large outwash basalt boulders cover the surface of some of the claims along the east side and hinders vehicle travel off the main trails.

The vein and fault systems are complex but all contain low grade silver throughout. The G.A.R. claim has many veins which have produced large amounts of high-grade ore. Some of the veins on the G.A.R., Norma and adjacent claims were reported

to be 8 to 10 feet wide, therefore, any enrichment would occur in larger pockets. These larger veins should be explored and developed first.

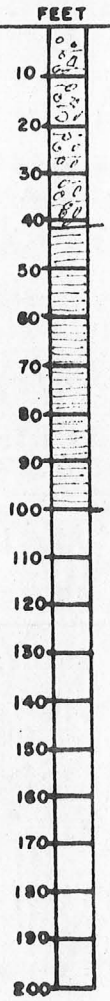
Silas C. Brown, geologist
Charles R. Ward Corporation

SCB

WHITE HILLS CLAIMS

Test Hole	T.D.	Total Footage	Purpose
White Hills #52	100'	100'	Validation
White Hills #46	100'	200'	-do-
Pat #1	10'	210'	-do-
Pat #2	10'	220'	-do-
White Hills #9	100'	320'	-do- & ore test
White Hills #10	100'	420'	Validation & ore test
White Hills #60	50'	470'	Validation
White Hills #4	10'	480'	-do-

WHITE HILLS #52



0-42' Surface gravel w/bldrs
Much caving

Validation hole

Loc: 60' E & 220' S of NW cor. post

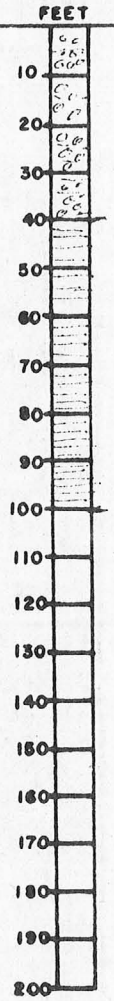
Validates: White Hills #48, 49, 50, 51, 52, 53, 54, 55, 56 & 57

42-100' Very hard, gray
Cretaceous volcanics?
Locally called Blue Granite

No assays

T.D. 100'

WHITE HILLS #46



0-40' Surface gravel w/boulders
bad caving.

Validation hole

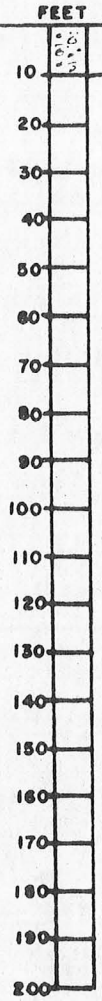
Loc: 150' N45E of #46 Location post

Validates: White Hills # 38, 39, 40, 41, 42, 43, 44, 45, 46 & 47

40-100' Very hard, gray,
Cretaceous volcanics?
Locally known as glue granite

T.D. 100'

PAT #2



T.D. 10'

0-10' Surface gravels w/bldrs.

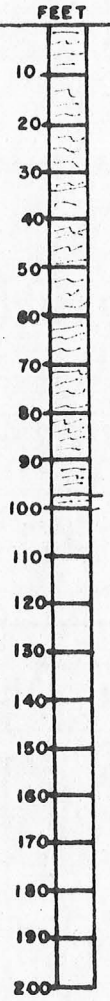
Validation hole

Loc: 520' S & 340' E of NW cor post

Validates: Pat #2

No assays

WHITE HILLS #9



0-98' Gneissic granite, lt. br to med gray. Abd quartz stringers.

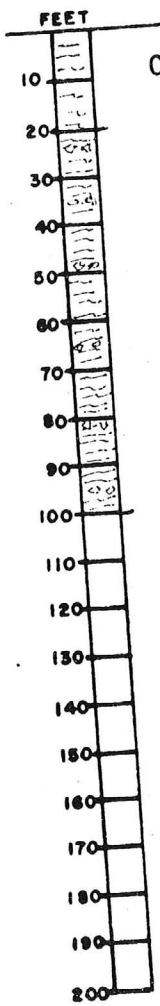
Validation & ore test
Loc: 75' E & 25' S of NE Cor. Post
Validates: White Hills #5, 6, 7, 8, 9, 20, 21, 22, 23 & 24

98-100' Very hard gray Cretaceous volcanics?

No Assays

T.D. 100'

WHITE HILLS #10



0-100' Gneissic granite, abd quartz and biotite locally, Alt. bands of red & lt gray granitic rocks.

20-100' Several zones of pegmatitic material. Phenocrysts up to ½ inch.

T. D. 100'

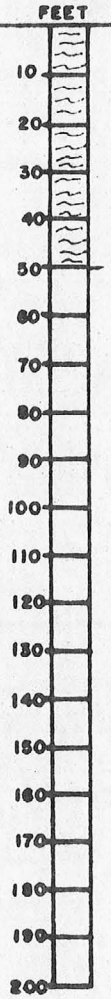
Validation & ore test

Loc: 600' S & 230' E of NW cor. Post NW #10 = NE #9

Validates: White Hills #10, 11, 12, 13, 14, 15, 16, 17, 18 & 19

No assays

WHITE HILLS # 60



0-50' Lt. gray to Lt Br Gneissic granite w/thin stringers of quartzite

T.D. 50'

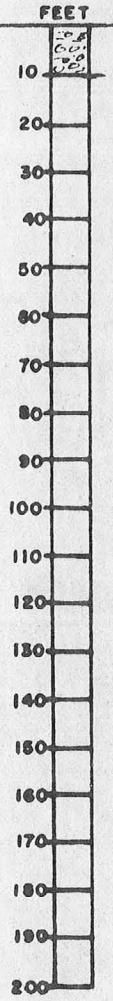
Validation & ore test

Loc: 50' N & 50' W of SE Cor. Post

Validates: White Hills #58,59, 60, 61 & 62

No assays.

WHITE HILLS #4



T. D. 10'

0-10' Surface gravel w/boulders

Validation hole

Loc: 40' E & 50' S of NW corner post

Validates: White Hills #4

No assays

WHITE HILLS MINE MOHAVE COUNTY

NJN WR 8/26/83: Corwin Coe reported that Corval Development (Arizona Silver) is drilling the Hulda vein structure at White Hills Mine, Mohave County and logging it with their silver probe. Drilling is occurring on Occident and Horn Silver claims.

NJN WR 11/23/84: Stan Keith reported the McCracken (f) Ramsey (f) and White Hills (f) Mines, all silver properties, mineralization in coeval and have the same magma chemistry.

CJH WR 9/20/85: Phone call: Conrad W. Pilz, formerly Staff Metallurgist, Cyprus Metallurgical Processing Corp reported that Corval Development has shut down all operations.

NJN WR 6/6/86: Bill Vanderwall (c) reported that Corval AKA Arizona Silver Corp (c) is selling equipment from the White Hills mine (f) Mohave County.

NJN WR 3/13/87: Bill Vanderwall (c) reproted that Arizona Silver Corp (c) dba Corval Development Inc (c) is returning the White Hills property (file) Mohave County to the owners.

WHITE HILLS MINE (File) Mohave Co., White Hills Dist.

WR KP 4-29-77: Corval reported to have begun operations on February 15, 1977, at White Hills Mine.

WR CJH 9-18-79: Started report on field examination and interview with Corwin Coe at the White Hills operation of Corval Development Inc.

CH/Report 11/23/79 - Met with Corwin Coe at the White Hills operations of Corval Development, Inc. The dump material that they have been testing in the leaching vats has been found to be uneconomic without crushing and screening. Additionally the retention time in the agitation tanks to obtain 60-70% recovery has been cut to two hours. They hope to be on stream in about two weeks. Mr. Coe said that future underground mining is a distinct possibility.

CJH: WR 5/15/80 = Drive to Corval Development Co's White Hills operation in the company of George McDevitt. Talked to the mill foreman Dennis Cook Corwin Coe was in Kingman. They have constructed a new wooden hopper ± 50 tons capacity, which will hold feed for a new crusher when it is installed. Additionally, a wooden headframe for the GAR shaft is being constructed. Shaft repair will be undertaken.

CJH WR 12/19/80: A visit to the GAR Mine of Corval Development Inc. (see CJH FER 9/16/80 "White Hills Mine") revealed that the retimbering of the shaft has been accomplishe to 250 feet. Below that they are dewatering and cleaning up old debris. A pre-existing station is anticipated at 325 feet. The shaft three compartments; hoisting, service and manway. A skip riding on straight-grained, knot-free Douglas fir guides will be used for rock hoisting.

MG WR 11/13/81: Arizona Silver Corp. (Corval Development Inc.) has converted from heap leaching to agitation vat leaching to recover gold and silver. Ore is supplied from the Hulda Mine (Mohave County) which has two levels and 600 feet of workings. The shaft at the G.A.R. Mine (Mohave County) is completed and the ore zones are under development.

WHITE HILLS MINE MOHAVE COUNTY

Active Mine List Oct. 1968 - 6 men

Visit to White Hills mine where Consolidated Minerals are milling the various mine dumps. Mine report to follow. FTJ WR 11-8-68

The cyanide mill at the White Hillsmine in the White Hills is adding flotation to the system. FTJ QR 1-20-69

Mine visit to White Hills mine - plant still under construction. FTJ WR 1-10-69

Active Mine List April 1969 - 6 men

Visited White Hills mine and mill - Conference with J.J. Oberbillig, who is mgr., for Buffalo Lake Mines Ltd., 13th Floor, Marine Bldg., 355 Barrard Street, Vancouver, British Columbia, who have taken over the operation. Their local address is Box 962, Las Vegas Star Route, Kingman, Arizona 86401. Buffalo Lake Mines Ltd., is an old company - a skeleton - taken over by Canadian interests. Work at mine mostly testing to determine future plans. FTJ WR 7-11-69

Visited the White Hills mine. They are sampling more of the dumps and also some underground workings. FTJ WR 9-5-69

Active Mine List Oct. 1969 - 9 men - J.J. Oberbillig, Mgr., Box 962, Kingman

Visited with Floyd Brown foreman, at the White Hills mine. He said Metlers were going to drill several holes in an attempt to develop ore. Mill shut down for the time being. FTJ WR 3-6-70

Visited White Hills mine - idle but were waiting for Metlers drill crew. FTJ WR 5-8-70

Active Mine List May 1970 - 4 men - J.J. Oberbillig, Mgr.

Visited White Hills mine - idle waiting for money to start exploration drilling. FTJ WR 7-11-

---

Exploration work was done at the White Hills mine during the quarter. FTJ QR 7-1-70

Mine visit - Talked with Matt who said Oberbillig is president and was trying to raise some capital for exploration. FTJ WR 9-4-70

Active Mine List Oct. 1970 - 2 men - J.J. Oberbillig, Mgr.

Visited White Hills mine - talked to Lloyd Brown who is in charge. They are waiting for outside financial help. FTJ WR 11-6-70

WHITE HILLS MINE MOHAVE COUNTY

Phoned Floyd Brown at White Hills mine who said inactive at present but drilling planned. FTJ WR 1-8-71

The Chico mine was inactive as was Buffalo Lakes Mines at White Hills. Drilling at the White Hills is however, contemplated. FTJ QR 1-13-71

Buffalo Lake Mines Ltd. wound up their White Hills operation. GW QR 9/71

Pat Patterson of Chloride permitted us to copy underground and surface maps of the White Hills silver mine. VBD WR 6/15/76

WHITE HILLS MINE MOHAVE COUNTY

Visited the White Hills mine. Work is suspended for the summer. TPL WR 6-23-62

Charles A. Steen is stripping and preparing drill sites at the White Hills project near Kingman, Arizona. He holds under contract and by new locations, approximately 250 claims and plans to start a drilling program shortly. Glen Walker, Loma Vista Motel, Kingman, is in charge locally. Principals are Charles Steen, 1790 East Plumb Lane, Reno, Nevada and associates. Mining World July 1962 p. 41

Visited Loma Vista Motel to find out if Glen Walker had returned from Nevada. He was Charles Steen's geologist on the White Hills project. Learned he had been transferred to Montana and that a Mr. Kundest who was taking his place had made reservations at the motel but had not yet arrived. EGW WR 5-10-63

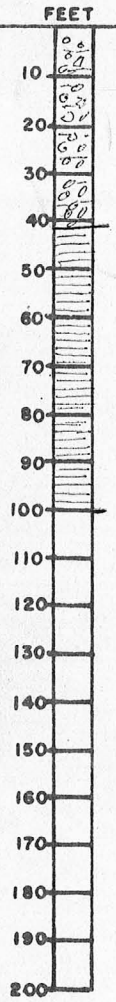
Interviewed John Jordan at his office in Kingman. Learned Charles Steen still has one drill going at White Hills. EGW WR 7-17-63

ORIGINAL

WHITE HILLS CLAIMS

Test Hole	T.D.	Total Footage	Purpose
White Hills #52	100'	100'	Validation
White Hills #46	100'	200'	-do-
Pat #1	10'	210'	-do-
Pat #2	10'	220'	-do-
White Hills #9	100'	320'	-do- & ore test
White Hills #10	100'	420'	Validation & ore test
White Hills #60	50'	470'	Validation
White Hills #4	10'	480'	-do-

WHITE HILLS #52



0-42' Surface gravel w/bldrs
Much caving

42-100' Very hard, gray
Cretaceous volcanics?
Locally called Blue Granite

T.D. 100'

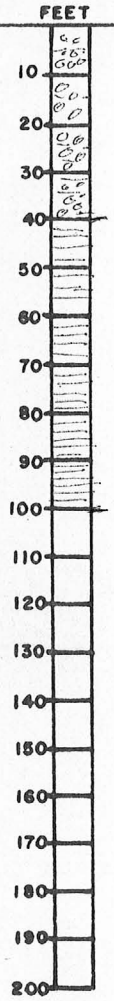
Validation hole

Loc: 60' E & 220' S of NW cor. post

Validates: White Hills #48, 49, 50, 51, 52, 53, 54, 55, 56 & 57

No assays

WHITE HILLS #46



0-40' Surface gravel w/boulders
bad caving.

Validation hole

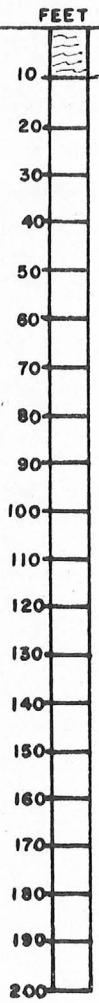
Loc: 150' N45E of #46 Location post

Validates: White Hills # 38, 39, 40, 41, 42, 43, 44, 45, 46 & 47

40-100' Very hard, gray,
Cretaceous volcanics?
Locally known as glue granite

T.D. 100'

PAT #1

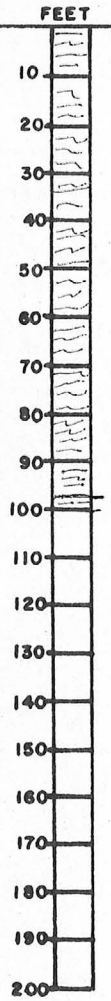


T.D. 10'
0-10' gneissic granite

Validation hole
Loc: 100' S & 250' W of NE cor.
Validates: Pat #1

No assays

WHITE HILLS #9



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Loc: 75' E & 25' S of NE Cor. Post
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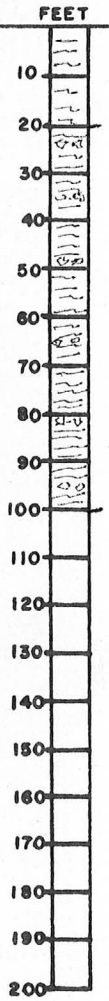
98-100' Very hard gray Cretaceous volcanics?

No Assays

T.D. 100'

WHITE HILLS #10



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20-100' Several zones of pegmatitic material. Phenocrysts up to ½ inch.

T. D. 100'

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Loc: 600' S & 230' E of NW cor. Post NW #10 = NE #9

Validates: White Hills #10, 11, 12, 13, 14, 15, 16, 17, 18 & 19

No assays

Telephone 363-3302

Hand Sample Serial 43191-43197

Mine Buffalo Lake Mines Ltd.
Box 962, Las Vegas Star Route
Kingman, Arizona 86401

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

W. C. WANLASS, President
L. G. HALL, Vice President
G. P. WILLIAMS, Treasurer
GERALDINE A. WANLASS, Secretary
P. O. Box 1528
Salt Lake City, Utah 84110

RESULTS PER TON OF 2000 POUNDS Dec. 31, 1969

NUMBER	GOLD ~~Ounces~~ Fineness	SILVER ~~Ounces~~ Fineness	LEAD Wet on Ore	COPPER Per Cent	INSOL Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per Cent
Number											
422 (5)	2.889	869.919									
423 (6)	2.250	912.628									
424 (7)	2.535	903.628									
425 (8)	2.557	900.069									
426 (10)	2.737	897.477									
427 (11)	2.549	854.567									
428 (12)	2.537	878.177									

Remarks

Charges $ 105.00

Glen P. Williams

Radon? Set of 70 pages
kbyte477 pdf 1-20-06 16:21
kbyte47B tif 1-20-06 16:30
70 page Series

BUFFALO LAKE MINES, LTD.

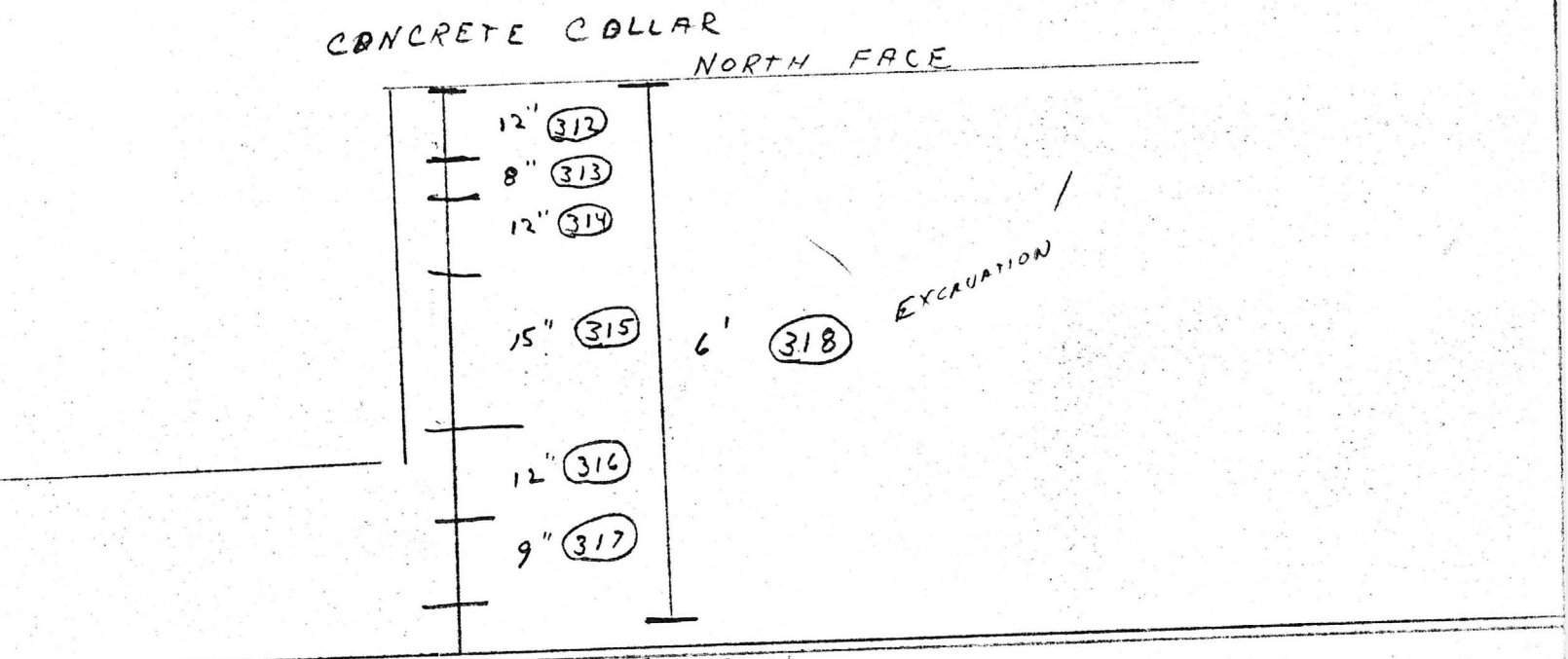
WHITE HILLS MINE

ASSAY SHEET

SAMPLE TAG NO.	DATE SENT	ASSAYER	AU	AG	REMARKS
312			010	A	
313			010	7.8	
314			.110	.8	NORTH GAR
315			.020	.8	VERTICAL SHAFT
316			.010	.3	
317			.005	1.1	
318			.090	.8	
319					
320			TR	.01	
321			TR	.4	
322			TR	.3	MIDDLE GAR VERTICAL SHAFT
323			010	.4	
324			TR	.3	
325			"	NC	
326			TR	.6	
327					

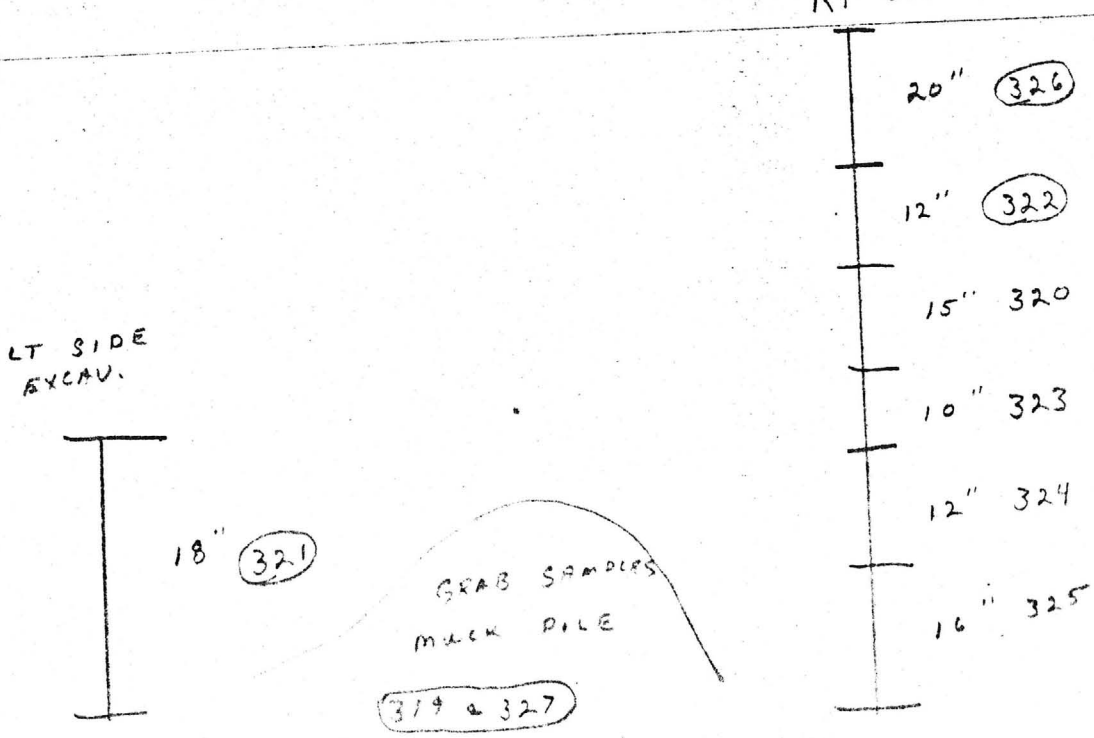
VERTICAL SHAFT

NORTH GAR VEIN



MIDDLE GAR VEIN

NORTH SIDE



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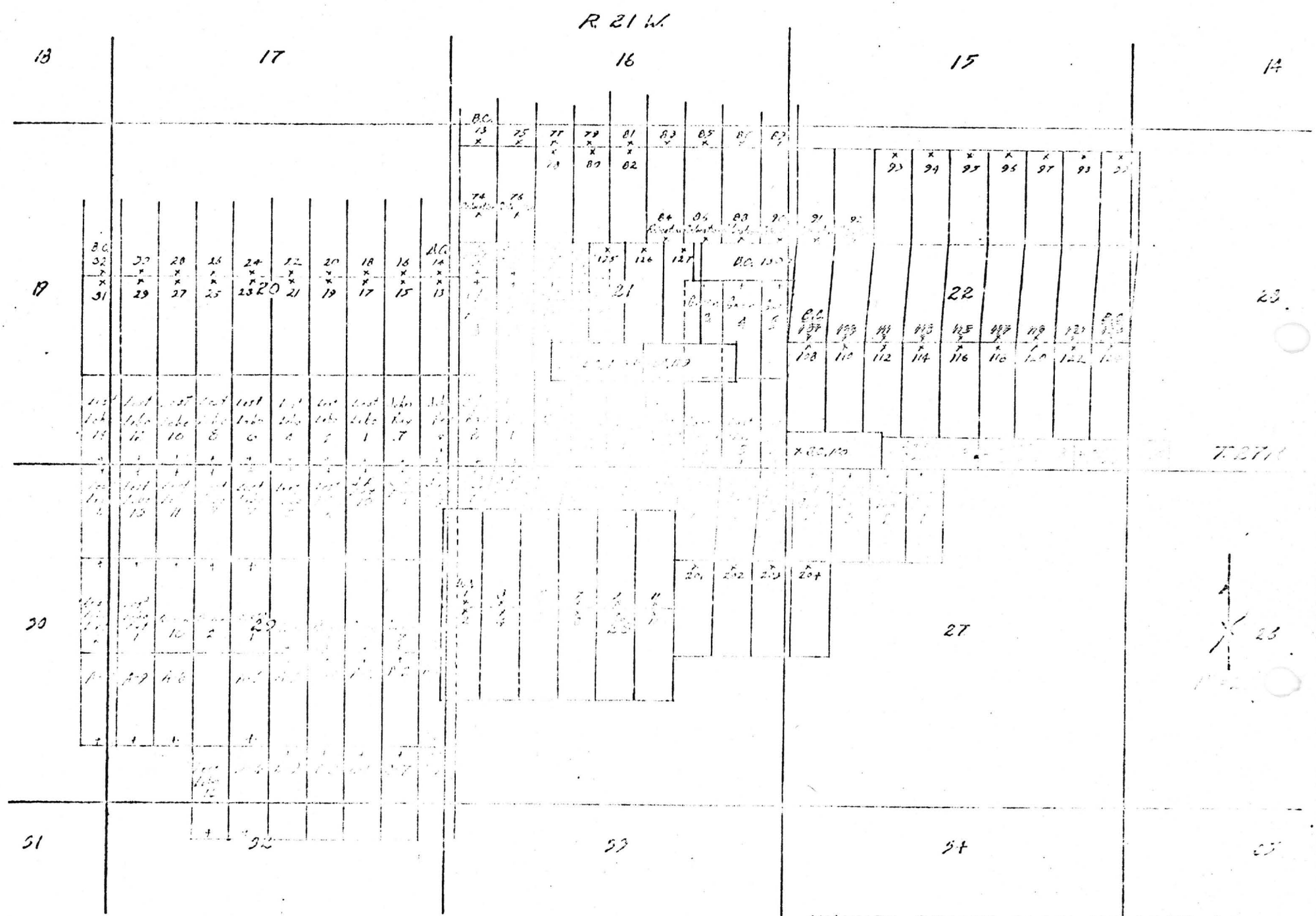
Remarks

Charges $ 105.00

Glen P. Williams



KUNKES-BROWN CLAIM RELOCATION

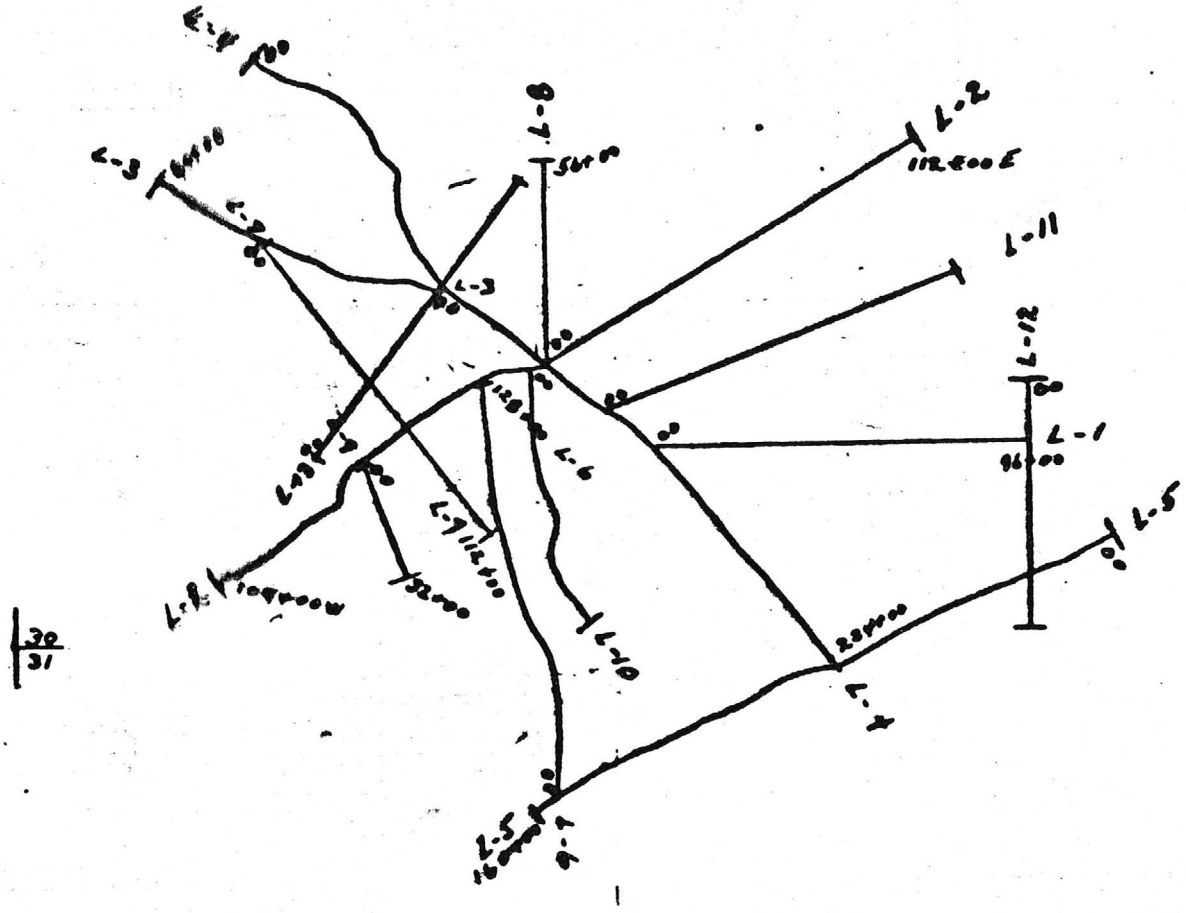
BOX CANYON PROJECT

Mohave Co., Ariz

MT PERKINS QUAD 114° 30' WHITE HILLS QUAD

R21W

35° 45'



30
31

T27N

T26N

17 | 16
20 | 21

I P LINES
POPE MINE SO.
MOHAVE CO. AZ
T27N R21W
SCALE 1" = 1 MI
MAR 1974 REA
APR 1974 REA.

HOLE NO. _____

PROJECT: Box CANYON

CONTRACTOR: _____

DATE STARTED: _____ COMPLETED: _____

LOGGED BY: RCJ

T.D.: _____ COLLAR ELEVATION: _____

INCLINATION: _____ BEARING: _____

COORDINATES: _____

SURVEY REFERENCES: _____

ASSAYS (INT.)	Cu	Mo	Pb	Zn	Ag	Au	HOLE SIZE & % RECOVERY	VISUAL ESTIMATES (ZONES)	ASSAY AVE.	LOG (Scale: 1" = 10')	ROCK UNIT	NOTES & SKETCHES
							420.0			420.0 Epid, chlor, calc sms; Py on fracts.		
							421.0		½%	py, cp°		
							422.0			430.0		
10997	125	26	10	165			423.0		1-2%			
437.0							432.0			2" qtz, py, barite, clay		
							442.0			440		
10998	80	25	<10	135			444.0				PC GNEISS	
442.0							446.0	NK Sulfide		450.0		
	45	23	10	140			454.0					
449.0							456.0		1%	Blend Silica		
										460.0		
11000	60	20	<10	160			464.0			Py in silic'd bands.		
462.0							466.0			470.0		
										Silic'd halo; ½" qtz sm, py		
14288	40	22	10	125			474.0					
478.0							478.0			480.0		

DRILL LOG

HOLE NO. C-1(NX)

PROJECT Box Canyon

CONTRACTOR Grubbs & Sons Drilling Co.

DATE STARTED 3 Feb 75 COMPLETED 6 Feb 75

LOGGED BY R. C. J.

T.D. 303.0'

COLLAR ELEVATION 2223'

INCLINATION -90° BEARING —

COORDINATES 20 464N & 21 426E

SURVEY REFERENCES

INT.	Cu	Mo	Pb	Zn	Au (oz/ton)	HOLE SIZE & % RECOVERY	VISUAL ESTIMATES Zones	Orig. Tot. Sulf.	ASSAY AVE.
10.0						Rotary 0.1			
19927	530	10	<10	725	<0.003	31%			
20.0						20.0		10%	
19928	385	10	<10	180	<0.003	48%			
30.0						30.0			
19929	560	30	<10	405					
19930	.15%	2	10	730		90%		+3%	
40.0						40.0			
19931	.15%	3	10	400		74%		8%	
45.5						45.0			
19932	.25	3	<10	145		74%			
50.0						50.0		3%	
19933	225	2	<10	105		37%			
60.0						60.0			

NX

Oxide

LOG Scale: 1" = 10'

ALTERATION

0 — No core

10

1" goe, py bxwk

20 — 1½" hem, goe bxwk

hem, goe

30 — 1" gto w/ hem

¼" hem, goe

3/16" gto, hem, goe

40 — largely hem sms

¼" goe, hem

50 — jar, hem

60

ROCK UNIT: PG Gneiss

NOTES & SKETCHES

Gneiss. Precambrian. Strgly broken. Totally arg'd (largely supergene). Heavily goe- & hem-stained w/ locally jar.

10.0 – 33.0: Qtzo-felspar. Alt'd to clay w/ gto grains. 10% arg sulf.

33.0 – 45.5: Melanocratic. Clay & chlor alt'd. Probably amph-plag gneiss. Not broken & shattered as too, but many shear planes w/o offset. Occ qtzo-felspathic bands.

45.5 – 70.0: Qtzo-felspathic. Totally alt'd to clay w/ gto grains. Strgly shattered. Possibly a pegmatite.

DRILL LOG

HOLE NO. C-3

PROJECT Box Canyon

CONTRACTOR Grubbs & Sons Drilling Co.

DATE STARTED 15 Feb 75 COMPLETED 18 Feb 75

LOGGED BY R.C.J.

T.D. 304.0' COLLAR ELEVATION 2847'

INCLINATION -90' BEARING

COORDINATES 24614 N & 21500 E

SURVEY REFERENCES

ASSAYS INT. & Sample No.	Cu	Mo	Pb	Zn	Ag	Au	HOLE SIZE & % RECOVERY	VISUAL ESTIMATES ZONES	ASSAY AVE.	LOG Scale: 1" = 10'	ROCK UNIT	NOTES & SKETCHES
17.0							Rotary		ORIG TOT SUL	0.0		0.0–108.8: GNEISS: Precambrian. Mesocratic bio-qtz-feld. Foliation @ 30-45° to core. Strg, pervasive ser-clay (+) w/ destruction of bio, except in patches. Some qtz smg.
14293	380	119	10	105	<0.03 oz/t	<0.003 oz/t	17.0 82% 22.0 100%	Oxide		10.0 No core. Clay, bx, goe at top. Goe+, jar on fracts.		
25.0							27.0 103%			20.0 Sericite+, qtz sms, clay, Matics I→0 Strgly brkn. Clay on frs → Py I→ goe+		
14294	230	45	10	100			30.0 80%			30.0 qtz-ser soaking → Goe+, vugs + brwn after py General jar staining. Patches of ser-qtz soaking	PC GNEISS	
35.0							35.0 104%		5%	Ser-clay (+) bio I→0		
14295	250	93	10	130			40.0 89%			40.0		
44.5							44.5 89%					
14297	265	102	<10	60			50.0			50.0 Py I→ goe		
54.0							97%					
14298	315	93	20	50	<0.03 oz/t	<0.003 oz/t	56.0 110%	Mixed		cc coatings on py		
59.0							60.0			60.0		

DRILL LOG

HOLE NO. C-3

PROJECT Box Canyon

CONTRACTOR

DATE STARTED ____ COMPLETED ____

LOGGED BY RCd

T.D. ____ COLLAR ELEVATION ____

INCLINATION ____ BEARING ____

COORDINATES

SURVEY REFERENCES

INT. & Sample No.	Cu	Mo	Pb	Zn	Ag	Au
39	320	96	10	40	<0.03 oz/t	<0.003 oz/t
70.0						
14300	430	116	10	90	<0.03 oz/t	<0.003 oz/t
80.0						
14337	290	130	<10	25	<0.03	<0.003
87.5						
338	210	141	<10	25	<0.03	<0.003
93.5						
14339	165	62	<10	25	<0.03	<0.003
104.5						
14340	0.11%	30	10	90	<0.03	<0.003
108.8						
117.5						

HOLE SIZE 4 ⅞ — RECOVERY — ZONES

VISUAL ESTIMATES — ASSAY AVE. — TOT SUL

60.0, 96%, 65.0, 66%, 70.0, 96%, 75.0, 96%, 80.0, 100%, 85.0, 80%, 87.5, 80%, 93.5, 100%, 98.5, 92%, 103.5, 104%, 108.5, 102%, 113.5, 72%, 120.0

N/A — Mixed

TOT SUL: 5%, 2%, 0%, 2%

LOG Scale: 1" = 10'

60.0 — Py → goe, jar(-); Unoxidized py grains show blk cc coatings.

Blebs of fine bio up to ½", only weakly oriented ∥ foliation. Secondary?

Ser-clay, bio → chlor. Prob much qtz rocking. 70.0

80.0 — Py → goe, jar(-); no cc visible

Primarily clay-altered, ser → patches so far increases towards bottom. 90.0

Py I → goe. Red + yellow staining of felds.

Py, cc

Hvy qtz flooding. Rem felds to clay, clay + on fracts. Also mod ser. 100.0

Py w/ cc

clay, chlorite, qtz

110.0

Mafic-feld gn → clay + chlor. Fine, grn aphanite. Possibly older dike? Py, cc(-), calc.

120.0

ROCK UNIT

NOTES & SKETCHES

87.0–108.8; Leuco-cratic qtz-feld gn. Med- to coarse-grnd. Almost pegmatitic texture.

BASALT — 108.8–117.5: BASALT DIKE: Tertiary, dk-gry, finely-porph.

APHANITE — 117.5–119.0; OLDER APHANITIC DIKE

DRILL LOG

HOLE NO. C-3

PROJECT Box Canyon

CONTRACTOR

DATE STARTED COMPLETED

LOGGED BY R.C.J.

T.D. COLLAR ELEVATION

INCLINATION BEARING

COORDINATES

SURVEY REFERENCES

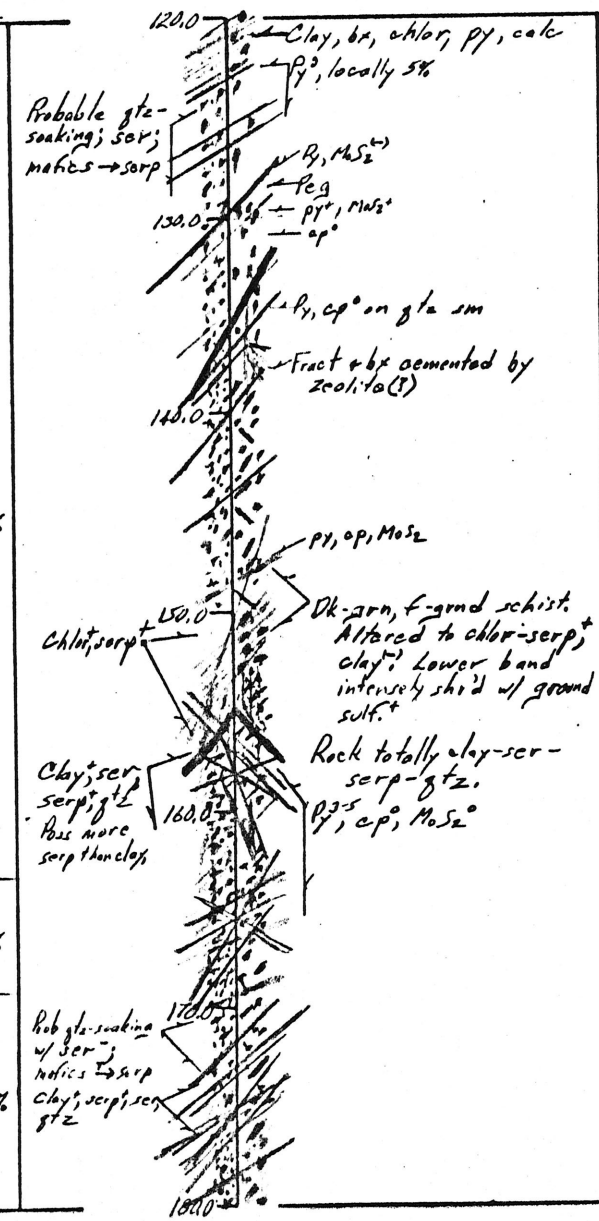
ASSAYS INT. & Sample No.	Cu	Mo	Pb	Zn	Ag	Au
14341	610	19	10	460		
0						
14342	180	123	20	60	0.03	<0.003
135.0						
14343	160	49	<10	25	<0.03	<0.003
145.0						
14344	220	85	10	40	<0.03	<0.003
155.0						
14345	175	95	<10	25	<0.03	<0.003
165.0						
14346	290	8	10	50		
173.0						
14347	245	17	10	65		

HOLE SIZE & % RECOVERY: 120.0; 100%; 125.0; 104%; 130.0; 102%; 135.0; 98%; 140.0; 100%; 145.0; 86%; 150.0; 100%; 155.0; 100%; 160.0; 96%; 165.0; 100%; 170.0; 63%; 173.0; 100%; 178.0

VISUAL ESTIMATES — ZONES: Sulfide

ASSAY AVE. — Tot Sul: 3%; 5%; 3%

LOG Scale: 1" = 10'



ROCK UNIT: PC GNEISS

NOTES & SKETCHES

119.0–304.0: GNEISS:

Lt gry to grn-gry, med-grnd. Rock consists almost entirely of qtz, ser, clay (?), serp and locally remnant feld.

DRILL LOG

HOLE NO. C-3

PROJECT Box Canyon

CONTRACTOR

DATE STARTED COMPLETED

LOGGED BY R.C.J.

T.D.

INCLINATION

COORDINATES

SURVEY REFERENCES

COLLAR ELEVATION

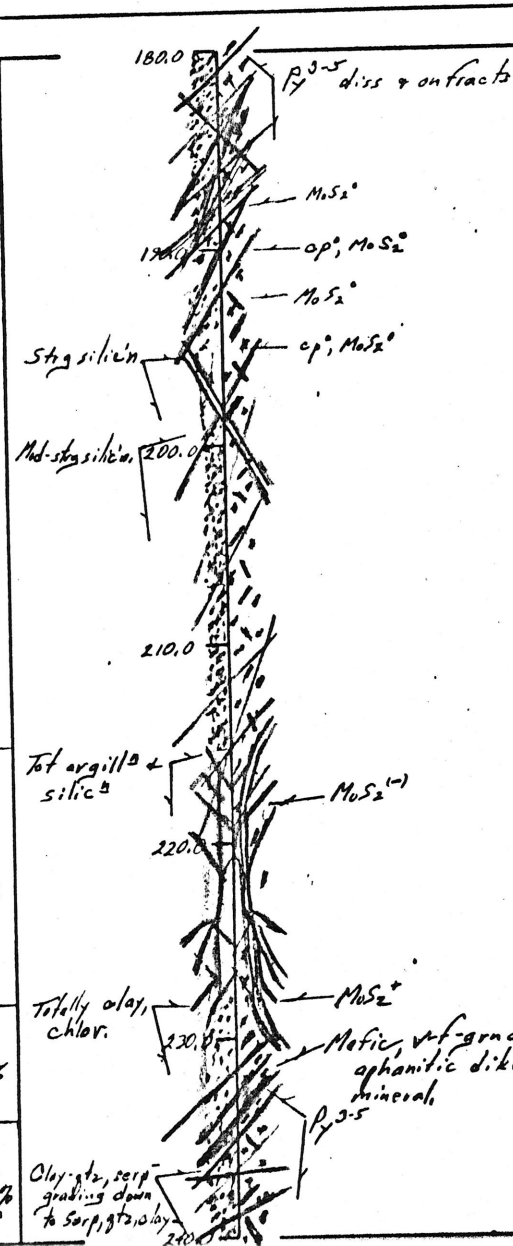
BEARING

ASSAYS: INT. & Sample No.	Cu	Mo	Pb	Zn	Ag	Au	HOLE SIZE & % RECOVERY	VISUAL ESTIMATES: ZONES	ASSAY AVE. TOT SUL
76							94%		
							183.0		
14348	270	74	10	35			90%		
							188.0		
							100%		
192.0							192.0		
							98%		
14349	180	3	10	25			197.0		3%
							105%		
							199.0		
							93%		
203.5							203.5		
							96%		
							206.0		
14350	175	109	10	25			92%		
							211.0		
16426	90	26	10	20			97%		
220.0							220.0		
							98%		1%
16427	195	30	10	20			225.0		
							98%		
229.4							230.0		
16428	840	32	20	250					3%
234.0									
16429	305	26	10	30					3-5%

NX

Sulfide

LOG scale: 1" = 10'



ROCK UNIT: PC Gneiss

NOTES & SKETCHES

HOLE NO. C-3

DRILL LOG

PROJECT Box Canyon

T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____

INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____

COORDINATES _____

LOGGED BY RCJ

SURVEY REFERENCES _____

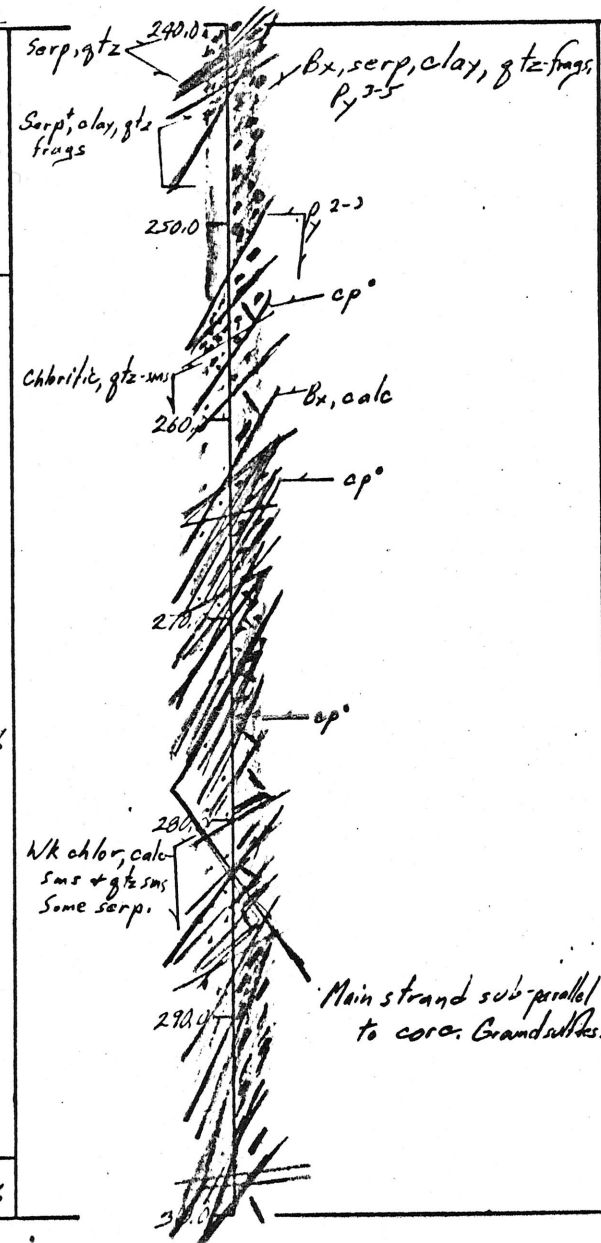
ASSAYS INT. & Sample No.	Cu	Mo	Pb	Zn	Ag	Au
244.0						
16430	120	30	10	25		
252.5						
16431	175	2	10	85		
258.0						
16432	285	15	20	260		
267.0						
16433	185	10	10	220		
275.0						
16434	735	3	20	300		
285.0						
16435	310	8	20	85		
297.0						

HOLE SIZE 4 X — RECOVERY: 240.0, 98%, 245.0, 104%, 250.0, 102%, 255.0, 78%, 259.5, 78%, 267.0, 100%, 270.0, 76%, 275.0, 76%, 280.0, 84%, 285.0, 98%, 290.0, 90%, 295.0

VISUAL ESTIMATES — ZONES: Sulfide

ASSAY AVE. — TOT SUL: 5%, 3%, 1%

LOG Scale: 1" = 10'



ROCK UNIT: PC Gneiss

NOTES & SKETCHES

256.0-290.0: Melanocratic schist. Bio-feld. Bio & chlor qtz-smd.

290.0-304.0: Coarse, mesocratic, bio-qtz-feld gneiss.

HOLE NO. C-3

DRILL LOG

PROJECT Box CANYON

CONTRACTOR

DATE STARTED COMPLETED

LOGGED BY RCJ

T.D. COLLAR ELEVATION

INCLINATION BEARING

COORDINATES

SURVEY REFERENCES

ASSAYS INT. Sample No.	Cu	Mo	Pb	Zn			HOLE SIZE & % RECOVERY	VISUAL ESTIMATES ZONES				ASSAY AVE. TOT SUL	LOG Scale: 1" = 10'	ROCK UNIT	NOTES & SKETCHES
16436 304.0	280	2	10	70			304.0	Sulfide				1%		RC GNEISS	304.0: BOTTOM OF HOLE.

DRILL LOG

HOLE NO. C-1

PROJECT Box Canyon

CONTRACTOR

DATE STARTED COMPLETED

LOGGED BY R.C.J.

T.D.

COLLAR ELEVATION

INCLINATION BEARING

COORDINATES

SURVEY REFERENCES

INT. / Sample No.	Cu	Mo	Pb	Zn	Au	Ag
60.0						
10934	205	1	<10	85		
10935	240	<1	<10	170		
70.0						
10936	530	17	10	760		
75.0						
10937	770	3	10	990		
80.0						
10938	540	16	10	550		
84.7						
85.5						
10939	0.0600	0.0013	0.0010	0.0790		
95.0						
10940	0.0490	0.0028	0.0010	0.0565		
103.5						
10941	0.11	0.0022	0.0010	0.11	<0.003	0.03
113.5						
10942	0.11	0.0017	0.0010	0.0470	<0.003	<0.03
120.0						

Hole size & recovery: N/X

Visual estimates — Zones: Oxide, Sulfide

Assay ave.

Orig. Tot Sulf.: 5%, 3%, 1%, 3%, 5%, 3%, 5%

LOG scale: 1" = 10'

Alteration

60.0 goe, jar⁻, hem°

peg

70.0

schistosity @ 60°

80.0

90.0 jar, goe⁻

jar staining

100.0

totally chloritized (serp?) w/ goe, gyp sms

qtz-ser — py⁺, cp°, cc°; 9" qtz; py

110.0 Intensely shattered. Non-rotated frags w/ comminuted rx + clay in interstices. Bio-qtz-feld gn. py⁵, cp°

Diabase. py³, mag'

120.0

Rock Unit	Notes & Sketches
PC Gneiss	70.0–84.7: Mafic gn (sch?) Moderate remnant coarse biotite. Alt^d to clay & chlorite.
Andesite (Tert?)	84.7–88.5: Coarse-grained andesite. Mafics ⇒ chlor, Feld ⇒ clay. 1% goe after py on frs.
PC Gneiss	88.5–91.0: Bio-plag schist. Fine-grained Bio ⇒ chlor; Plag ⇒ clay. 91.0–103.5: Pegmatite. 113.6–120.0: Pegmatite.

DRILL LOG

HOLE NO. C-1

PROJECT Box Canyon

CONTRACTOR

DATE STARTED COMPLETED

LOGGED BY RCJ

T.D.

INCLINATION

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COLLAR ELEVATION

BEARING

INT. + Sample No.	Cu	Mo	Pb	Zn	Au	Ag
120.0						
10943	0.0280	0.0019	0.0010	0.0060		
123.7						
4	0.0755	0.0013	0.0010	0.12	<0.003	<0.03
129.5						
10945	0.0325	0.0006	0.0010	0.0065	<0.003	<0.03
140.0						
10946	0.0035	0.0008	<0.0010	0.0020		
150.0						
10947	0.0060	0.0008	0.0010	0.0065		
160.0						
10948	0.0035	0.0023	0.0010	0.0015		
164.5						
10949	0.0030	0.0019	0.0010	0.0025		
174.1						
10950	0.0030	0.0004	0.0010	0.0050		
176.0						

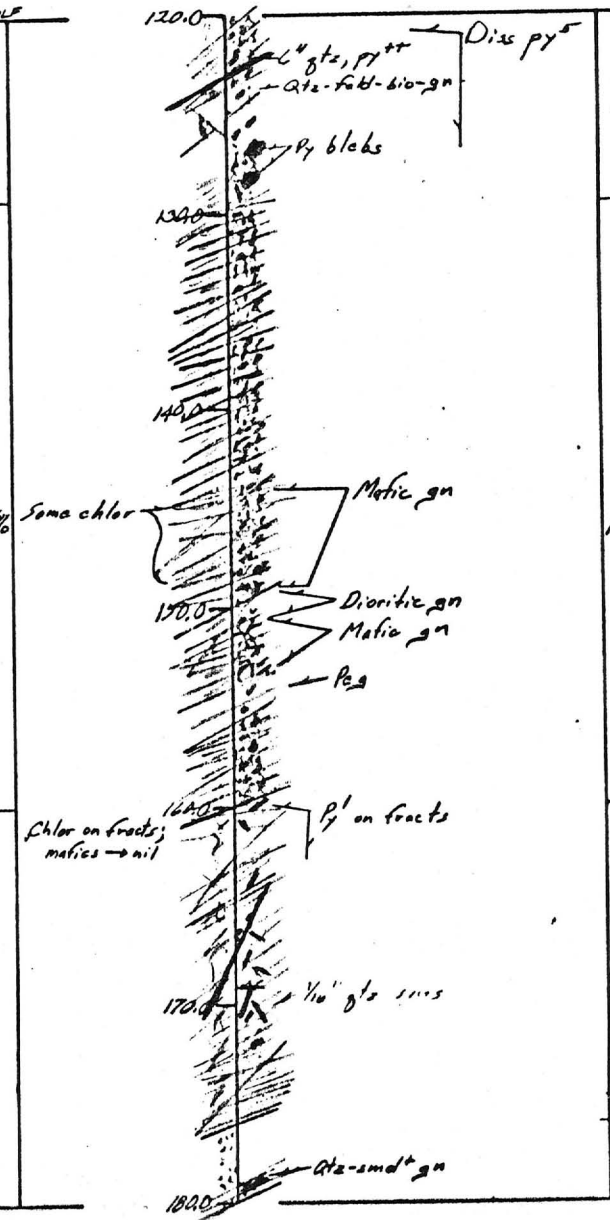
HOLE SIZE 4 % RECOVERY

VISUAL ESTIMATES — ZONES — Sulfide

ASSAY AVE. — Tot Sulf

Depth	Hole size	Visual estimate	Assay ave.
120.0			
124%			
125.0			5%
96%			
130.0			
100%			
135.0			
100%			
140.0			
102%			?
145.0			3-5%
102%			?
150.0			
51%			
154.5			
91%			
160.0			
87%			
164.5			
98%			
169.5			
115%			
171.5			
100%			
176.5			
94%			
184.0			

LOG scale: 1" = 10'



ROCK UNIT	NOTES & SKETCHES
PC GNEISS	120.0-129.5: Intensely shattered, comminuted. Almost mylonite, bally.
FAULT	129.5-160.0: Fault: Intensely mashed, sheared gneiss. Frags and angular qtz grains in clay. Frags of py + bands of gry, finely-ground sulfide. Total sulfide difficult to estimate.
PC GNEISS	160.0-174.1: GNEISS: Strongly shattered, chlor in fracts, Feld → clay. Foliation at ±45° to 70°. Med-grnd, qtzo-feld, leucocratic. Py' on fracts.
FAULT	174.1-176.0: FAULT.
	176.0-180.0: BASALT DIKE: Blk, slightly porphyritic.

DRILL LOG

HOLE NO. C-1

PROJECT Box Canyon

CONTRACTOR

DATE STARTED COMPLETED

LOGGED BY RCJ

T.D.

INCLINATION

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SURVEY REFERENCES

COLLAR ELEVATION

BEARING

ASSAYS INT. & Sample No.	Cu	Mo	Pb	Zn	Au	Ag
180.0						
10251	0.0045	0.0011	0.0010	0.0020		
190.0						
10252	0.0010	0.0016	<0.0010	0.0010		
199.0						
228.5						
10253	0.0175	0.0003	0.0010	0.11		
235.0						

HOLE SIZE 4 X FRACTURE

VISUAL ESTIMATES ZONES

Sulfides

ASSAY AVE. — TOT SULF

3%

½%

0%

<½%

3%

<½%

LOG Scale: 1" = 10'

180.0 — Dk, f-grnd, qtz-mod gn. Py, cp°, Pcu

Qtz soaking — Diss py ½

190.0 — ½" qtz; ¼" qtz

Basalt dike.

200.0

Epid.

210.0

Epid — Vuggy qtz w/ py⁻

220.0 — Dense gry qtz veining; py⁻ on fract.; py

py⁻ on fracts

Dis epid, chlor on shrs, calc sms.

230.0 — py, cp°

240.0

ROCK UNIT: PC GNEISS

NOTES & SKETCHES

180.0-274.5; GNEISS:

182.0-223.0: Generally leucocratic, med-grnd w/ weak to indistinct foliation.

223.0-235.0: Mafic, fine-grnd.

DRILL LOG

HOLE NO. C-1

PROJECT Box Canyon

CONTRACTOR

DATE STARTED COMPLETED

LOGGED BY RCJ

T.D.

INCLINATION

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COLLAR ELEVATION

BEARING

ASSAYS INT. & Sample No.	Cu	Mo	Pb	Zn	Au	Ag	HOLE SIZE & % RECOVERY	VISUAL ESTIMATES ZONES	ASSAY AVE.	LOG Scale: 1" = 10'	ROCK UNIT	NOTES & SKETCHES
254.0											PC GNEISS	241.0-244.0: V-silic gneiss. Doubtful silicification related to Laramide intrusive event.
10954	0.0190	0.0019	0.0010	0.0075								
260.0												
10955	0.0335	0.0019	0.0020	0.0190								
262.5												
10956	0.0115	0.0008	0.0010	0.0120								
268.0												
10957												
270.0												
[illegible]	0.0185	0.0006	0.0020	0.0070								
[illegible]											GRANITE(?)	274.5-284.0: Granite (?): Uncertain age. Fine-med-grained, silic, Feld Is clay. Pegmatitic on ctcs. Strongly calcareous.
10959	0.0040	0.0020	0.0010	0.0015								
284.0												284.0-303.0: GNEISS.
												296.0-302.0: Similar to above granite, but often foliated & contains bands of mafics locally.

Sulfide

½%

Tr

240.0 — Py ½ diss & on fracts

Chlor on wk shes Mafics → chlor

250.0 — Peg

Peg

Strongly fract'd w/ clay on fracts

260.0 — Diss op+

Chlor on fracs, calc sms

Py ½

Py on fr

Vuggy calc

Peg

Qtz sm w/ op+. Bx'd & healed by calc. Highly silic granite (?) w/ Feld Is clay. Diss py ½

270.0 — AHP

Peg

Pegmatitic on ctcs

12" clay, bt, py

280.0 — Pegmatitic

Peg

290.0

Clay alt'd, calc sms.

300.0

DRILL LOG

HOLE NO. C-1

PROJECT Box CANYON

CONTRACTOR

DATE STARTED COMPLETED

LOGGED BY RCJ

T.D.

COLLAR ELEVATION

INCLINATION BEARING

COORDINATES

SURVEY REFERENCES

ASSAYS INT.	HOLE SIZE & % RECOVERY	VISUAL ESTIMATES ZONES	ASSAY AVE.	LOG scale: 1"=10'	ROCK UNIT	NOTES & SKETCHES
	N/A 303.0	7.1%		300.0		303.0: Bottom of Hole.

DRILL LOG

HOLE NO. C-2 (NX)

PROJECT Box Canyon

CONTRACTOR Grubbs & Sons Drilling Co.

DATE STARTED 11 Feb 75 COMPLETED 15 Feb 75

LOGGED BY R. C. S.

T.D. 483.0' COLLAR ELEVATION 2827'

INCLINATION -90° BEARING —

COORDINATES 21384N & 21328E

SURVEY REFERENCES

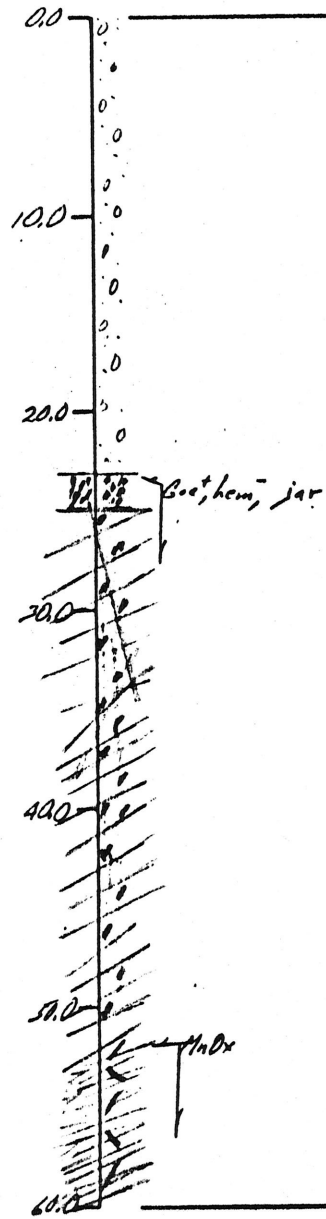
ASSAYS (INT. & Sample No.)	Cu	Mo	Pb	Zn	Ag	Au
23.0						
10961	0.0730	0.0008	0.0010	0.0300	<0.003	0.03
30.0						
10962	0.12	0.0013	0.0010	0.1000	<0.003	0.06
40.0						
10963	0.11	0.0003	0.0020	0.0890	<0.003	<0.03
52.2						

HOLE SIZE & % RECOVERY: NX

VISUAL ESTIMATES (ZONES): Oxide

ASSAY AVE. (TRIO TOT SUL): 8%; ?5%

LOG (Scale: 1" = 10')



ROCK UNIT	NOTES & SKETCHES
O/B	0.0-23.0: OVERBURDEN.
GNEISS	23.0-24.5: GNEISS.
FAULT	24.5-52.2: FAULT: Sheared, argillized gneiss. Mod goe+, jar, hem-
SHEARED DIKE	52.2-63.5: SHEARED DIKE: Probable Tertiary dike. Totally argillized & sheared.

DRILL LOG

HOLE NO. C-2

PROJECT Box CANYON

CONTRACTOR

DATE STARTED COMPLETED

LOGGED BY R.C.J.

T.D.

COLLAR ELEVATION

INCLINATION BEARING

COORDINATES

SURVEY REFERENCES

ASSAYS INT. Sample No.	Cu	Mo	Pb	Zn	Ag	Au
63.5						
10964	0.0125	0.0004	0.0010	0.0240		
79.5						
10965	0.0065	0.0005	0.0010	0.0125		
89.0						
10966	0.0030	0.0016	0.0010	0.0075		
96.0						
104.0						
10967	0.0020	<0.0001	<0.0010	0.0030		
114.0						
10968						

HOLE SIZE 4 X — % RECOVERY

VISUAL ESTIMATES — ZONES

ASSAY AVE. — Drig Tot. Sul.

LOG Scale: 1" = 10'

ROCK UNIT	NOTES & SKETCHES
SHEARED DIKE	
SHEARED GNEISS	63.5–67.5: SHEARED GNEISS: Intensely sheared, Fe-stnd, qtzo-feld gneiss
DIKE	67.5–79.5: DIKE: As above, but w/o MnOx + less sheared. Faint phenos evident downward (chloritized mafics).
PC GNEISS	79.5–96.0: GNEISS: Mesocratic qtz-feld gneiss. Mafics → chlor
BASALT DIKE	96.0–104.0: BASALT DIKE: Dk gry, v-f-grnd. Propylitized w/ calc sms, Probably Tertiary.
PC GNEISS	104.0–119.0: GNEISS: Leuco to mesocratic, med-grnd, qtzo-feld gn, locally melanocratic, grading to schist. Foliation @ ± 60° to core

Argillized w/ Calc sms

Alt'd incl of gn

Coe⁻ on fracts

Argillized feld & chlor'd mafics.

Propylitized w/ calc sms

Diss py⁻

Dk, f-grnd schist.

Basalt Dike

Mafics → skp

Oxide

Sulfide

N/X

DRILL LOG

HOLE NO. C-2

PROJECT Box Canyon

CONTRACTOR

DATE STARTED COMPLETED

LOGGED BY R.C.J.

T.D.

INCLINATION

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ASSAYS INT. Sample No.	Cu	Mo	Pb	Zn	Ag	Au	HOLE SIZE & RECOVERY	VISUAL ESTIMATES ZONES	ASSAY AVE. DRIG Tot Sul.	LOG scale: 1" = 10'	ROCK UNIT	NOTES & SKETCHES
63.5							60.0 84% 62.5			60.0	SHEARED DIKE	
10964	0.0125	0.0004	0.0010	0.0240			98% 67.5		2.3%		SHEARED GNEISS	63.5–67.5: SHEARED GNEISS: Intensely sheared, Fe-stnd, qtzo-feld gneiss
							93% 72.0 110% 74.0			Argillized w/ w/ Calc sms 70.0 All'd incl of gn	DIKE	67.5–79.5: DIKE: As above, but w/o MnOx + less sheared. Faint phenos evident downward (chloritized mafics).
79.5							97%			Argillized feld & chlor'd mafics. 80.0 Coe⁻ on fracts	PE GNEISS	79.5–96.0: GNEISS: Mesocratic qtz-feld gneiss. Mafics → chlor
10965	0.0065	0.0005	0.0010	0.0125			84.0 86%	Oxide				
89.0							89.0 84%			90.0		
96.0	0.0030	0.0016	0.0010	0.0075			100% 92.0 98%			Propylitized w/ calc sms 100.0	BASALT DIKE	96.0–104.0: BASALT DIKE: Dk gry, v-f-grnd. Propylitized w/ calc sms. Probably Tertiary.
104.0							104.0 96%			Diss py⁻	PE GNEISS	104.0–114.0: GNEISS: Leuco- to mesocratic, med-grnd, qtzo-feld gn. locally melanocratic, grading to schist. Foliation @ ± 60° to core
10967	0.0020	<0.0001	<0.0010	0.0030			109.0 100%	Sulfide	<½%	110.0		
114.0							114.0			Dk, f-grnd schist. Basalt Dike		
10968							106% 119.0		1%	Mafics → sap 120.0		

DRILL LOG

HOLE NO. C-2

PROJECT Box Canyon

CONTRACTOR

DATE STARTED COMPLETED

LOGGED BY RCJ

T.D.

INCLINATION

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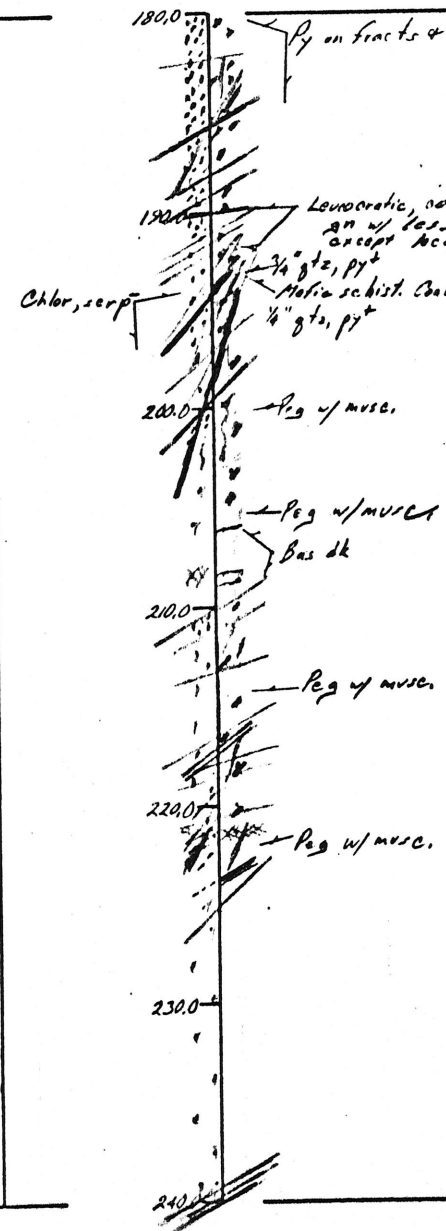
COLLAR ELEVATION

BEARING

ASSAYS: INT. & Sample No.	Cu	Mo	Pb	Zn	Ag	Au	HOLE SIZE & % RECOVERY	VISUAL ESTIMATES: ZONES	ASSAY AVE.	LOG (Scale: 1"=10')	ROCK UNIT	NOTES & SKETCHES
							180.0		TOT SUL			
							100%					
							185.0					
							82%		1%			
10974	0.0280	0.0003	0.0010	0.0100			190.0					
							84%					
195.0							195.0					
							80%					
10975	0.0030	0.0003	<0.0010	0.0030			200.0					
							89%					
							203.5					
206.0							100%					
							208.0					
							90%					
210.0							210.0		<½%			
							96%					
10977	0.0035	<0.0001	<0.0010	0.0025			215.0					
							98%					
220.0							220.0					
							87%					
10978	0.0010	<0.0001	0.18	0.0015			223.0					
225.0												
							90%					
							230.0					
							96%					
							235.0					
							88%					
							240.0					

NIX

Sulfide



PC GNEISS

193.0: Gneiss changes downward to alternating mafic bands and coarse qtzo-feld gneiss. Mafics P chlor, locally I serp. Py ½

BASALT DIKE

225.0-242.4: BASALT DIKE: As above. Prob. Tert.

DRILL LOG

HOLE NO. C-2

PROJECT Box Canyon

CONTRACTOR

DATE STARTED COMPLETED

LOGGED BY RCJ

T.D. COLLAR ELEVATION

INCLINATION BEARING

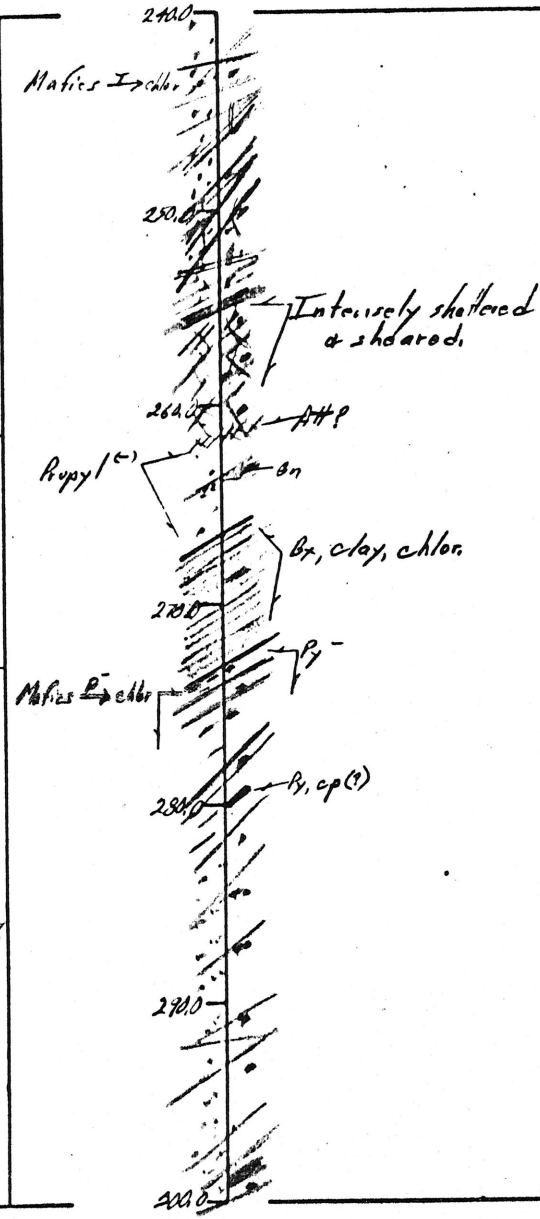
COORDINATES

SURVEY REFERENCES

ASSAYS INT. + Sample No.	Cu	Mo	Pb	Zn	Ag	Au	HOLE SIZE 4 % RECOVERY	VISUAL ESTIMATES ZONES	ASSAY AVE. TOT SUL
242.4							240.0		
379	0.0045	<0.0001	0.0020	0.0025			100%		
							245.0		< ½%
							86%		
250.0							250.0		
10980	0.0020	<0.0001	<0.0010	0.0015			98%		1%
255.0							255.0		
10981	0.0200	<0.0001	0.0010	0.0010			64%		< ½%
							257.5		
261.5							100%		
							263.5		
							93%		
265.5							266.5		
							86%		
10982	0.0285	<0.0001	<0.0010	0.0050			270.0		
273.0							92%		
							275.0		
							93%		
							278.0		
10983	0.0040	<0.0001	<0.0010	0.0055					
							85%		
									< ½%
285.0							288.0		
							100%		
	0.0015	<0.0001	<0.0010	0.0085			293.0		
10984							80%		
297.0							297.0		
							82%		

Sulfide

LOG scale: 1" = 10'



ROCK UNIT	NOTES & SKETCHES
BASALT DIKE	242.4–261.5: GNEISS: Same as note at 193.0.
PC GNEISS	
BASALT DIKE	261.5–265.5: BASALT DIKE!
FAULT	265.5–273.0: FAULT:
PC GNEISS	273.0–230.5: GNEISS: Med-coarse, gneo-feld w/ close-spaced bands of mafic mins. Foliation ±50° to core.

HOLE NO. C-2 **DRILL LOG** PAGE 6 OF 9

PROJECT Box CANYON T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY RCJ SURVEY REFERENCES _____

ASSAYS INT. # Sample No.	Cu PPM	Mo PPM	Pb PPM	Zn PPM			HOLE SIZE 4 % RECOVERY	VISUAL ESTIMATES ZONES	ASSAY AVE. TOT SUL	LOG scale: 1"=10'	ROCK UNIT	NOTES & SKETCHES
10985	100	≤1	10	70			300.0 100%			Wk propyl. (chlor & calc)		
318.0							310.0 110%			Diss py, Qtz-feld sms (¼")	PE GNEISS	
318.0	155	19	<10	90			310.0 100%		<½%	Chlor, serp		
							315.0 96%			Peg		
320.5							320.0 97%			Py		320.5-362.0: MONZONITE: Meso-cratic, med-grnd, non-foliated. Mafics (bio⁻, hnblde⁺) 30%, Plag 45%, ortho 25%.
10987	150	17	10	145			325.0 87%			chlor⁺, Epid⁻ chlor⁻ (calc=)		
329.0							329.0 100%		½%	Much orthoclase, Py w/ bleh'd halos, Qtz sm		
10988	125	20	10	125			334.0 98%		2%	Py w/ bleh'd halos, Py w/ qtz sms w/ bleh'd halos	PE(?) MONZ	
339.0							339.0 102%		½%	Ortho-rich band, 1" silic band w/ central py sm.		340.0-345.0: Faint banding at 40° to core.
10989	75	17	10	130			344.0 94%					345.0-362.0: Distribution of mafics irreg, leaving leucocratic bands or patches. Still not foliated. Leuco bands usually high in ortho. Locally stg mag.
349.0							349.0 90%		1%	Py on fracts, Py, cp⁻, Py on fracts		
10990	180	25	10	175			354.0 100%					
359.0							359.0			360.0		

Sulfide

DRILL LOG

HOLE NO. C-2

PROJECT Box CANYON

CONTRACTOR

DATE STARTED COMPLETED

LOGGED BY R.C.J.

T.D.

COLLAR ELEVATION

INCLINATION BEARING

COORDINATES

SURVEY REFERENCES

ASSAYS (INT. & Receipt No.)	Cu	Mo	Pb	Zn	Ag	Au
10991	60	22	10	105		
10992	145	30	10	195		
10993	120	47	10	125		
[illegible]	100	29	10	845		
10995	35	16	10	60		
10996	110	17	<10	160		

HOLE SIZE: NX

VISUAL ESTIMATES — ZONES: Sulfide

ASSAY AVE. — TOT SUL.

LOG scale: 1" = 10'

Depth	Visual estimate	Assay ave.	Log / sketch	Rock unit	Notes & sketches
360.0	102%	1%	Epid, chlor	MONZ.	
364.0	118%	<½%			
368.0	98%		Magt in silic band.		
370.0			Silic'd band, py; Py on fracts & diss		
372.0	96%	1%	Py, cp		
376.0			1" gouge, bx		
380.0	100%	5%		PC GNEISS	362.0– : GNEISS : Meso-cratic bio-hblde feld gn. Locally silic bands. Variable grn-size. Mod-strg mag, esp in silic bands. Banding at 40-70° to core.
383.0	102%				
388.0	100%	2%	1½ qtz, py; Peg		± 370.0: Becomes melanocratic downward. Except for foliation & more qtz, appears much like Monzonite above.
392.0	100%		9" qtz, feld, py; slcg		
396.0	88%	1%			
402.0	95%		Py on fracts		
407.5	76%				
410.0	94%	½%	Peg	PEGMATITE	
415.0	104%			PC GNEISS	
420.0					

DRILL LOG

HOLE NO. C-2

PROJECT Box Canyon

CONTRACTOR

DATE STARTED COMPLETED

LOGGED BY RCJ

T.D. 483.0'

COLLAR ELEVATION

INCLINATION BEARING

COORDINATES

SURVEY REFERENCES

ASSAYS INT. & Sample No.	Cu	Mo	Pb	Zn	Ag	Au	HOLE SIZE & % RECOVERY	VISUAL ESTIMATES ZONES				ASSAY AVE. TOT Sul.	LOG Scale: 1" = 10'	ROCK UNIT	NOTES & SKETCHES
14290	170	10	10	230			4"	Sulfide				1%	480.0	PC GNEISS	483.0: Bottom of Hole
483.0							483.0						483.0' T.D.		

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

W. C. WANLASS, President
L. G. HALL, Vice President
G. P. WILLIAMS, Treasurer
GERALDINE A. WANLASS, Secretary
P. O. Box 1528
Salt Lake City, Utah 84110

elephone 363-3302

Hand Sample Serial 20709=20718

Mine Buffalo Lake Mines Ltd.
Box 962, Las Vegas Star Route
Kingman, Arizona 86401

RESULTS PER TON OF 2000 POUNDS

June 19, 1969

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD ~~Wet on Ore~~	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	~~Per Cent~~	~~Per Cent~~
2	0.010	1.6	1/8"-1/4"	BENCH		TEST	HEADS				
7	Trace	1.2	✓	✓	✓	✓	TAILS				
8	0.010	1.7	1/4"-1/2"		✓	✓	~~HEADS~~				
12	0.005	1.3	1/8"-1/4"		✓	✓	RINSED TAILS				
13	Trace	1.2	1/4"-1/2"	✓		✓	✓	✓			
A	Trace	0.5	NORMA #2		Dump		LEFT				
B	0.010	2.8						TO			
C	Trace	3.6							RIGHT		
D	Trace	4.4									
E	Trace	0.6	✓	✓	✓	LOWER	STRATA				

marks

arges $ 30.00 Paid

G. P. Williams

Telephone 363-3302

Hand Sample Serial ...29461-29478..

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

W. C. WANLASS, President
L. G. HALL, Vice President
G. P. WILLIAMS, Treasurer
GERALDINE A. WANLASS, Secretary
P. O. Box 1528
Salt Lake City, Utah 84110

Mine Buffalo Lake Mines
Box 962, Las Vegas Star Route
Kingman, Arizona 86401

RESULTS PER TON OF 2000 POUNDS

Aug. 20, 1969

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Wet on Ore	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per Cent
501	0.040	11.2		3FT. CUT ACCROSS NORMA #1							
502	0.110	57.0		4FT. CUT, CHIP, PILLAR NORMA #1 - -50'							
503	0.030	4.0									
504	0.120	37.5		NORMA #1, 10" CHIP ACCROSS VEIN, MUCH QTZ, HEM, LIM.							
505	0.030	1.4		GRAB, BACKFILL, #5 LEV.							
506	0.510	1.5		12" CHIP ACCROSS VEIN, NORMA #1, 6 LEVEL							
507	Trace	None									
508	0.440	4.5		6" CHIP							
509	Trace	2.0									
510	Trace	0.3									
511	Trace	0.2									
512	Trace	None									
513	Trace	0.3									
514	0.060	0.2									
515	Trace	None									
516	0.370	40.4		SELECTED GRAB							
517	Trace	0.2									
518	None	0.1									

Remarks.....

Charges $ 54.00

G. P. Williams

BUFFALO LAKE MINES, LTD.

WHITE HILLS MINE

501 — 600

ASSAY SHEET

AMPLE TAG NO.	DATE SENT	ASSAYER	AU	AG	REMARKS
501					NORMA No. 1 36" ACCROSS VEIN
502					" 48" " PILLAR
503					" 300 LEVEL 5" x 24"
504					" " 10"
505					" " GRAB FROM BACK FILL
506					" 600 L. 12" VEIN
507					" 700 L 24" WHITE ALT. MAT
508					" " 6"
509					" 500 L-So. 8"
510					WINZE BEHIND OFFICE, 18"
511					24" CUT ACCROSS VEIN 100'± E. of Occ. Sh
512					CHIP ACCROSS HORSE SILVER VEIN 18" x 12"
513					" " " " " 60"
514					" " BETWEEN OCC VEIN & NORM. Ag 60"
515					GRAB SAMPLE ALONG VEIN WATER TANK -25°
516					" " SELECTED NORMA No. 1 DUMP
517					NORMA No. 1 PIT EAST 30'
518					24" CHIP ON VEIN BELOW No. 1, ROAD
519					— OMIT — VOID —
520			NIL	0.45	OCCIDENT — SEE SAMPLE BOOK
521		UNION	TRACE	NIL	"
522		UNION	TRACE	NONE	"
523		"	TR	NIL	"
524			NIL	NIL	"

BUFFALO LAKE MINES, LTD.

WHITE HILLS MINE

ASSAY SHEET

SAMPLE TAG NO.	DATE SENT	ASSAYER	AU	AG	REMARKS
525		UNION	TR	NIL	OCCIDENT - SEE SAMPLE BOOK
526		"	TR	NIL	" "
527		"	TR	NIL	" "
528		"	TR	NIL	" "
529			TR	NIL	" "
530			TR	NIL	" "
531			NIL	0.50	" "
532			NIL	1.05	" "
533			TR	0.1	" "
534			NIL	NIL	" "
535			NIL	6.39	G.A.R. TRENCH RANDUM CHIP 96" ALONG STRIKE, WIDTH 1/2
536			TR.	9.12	" " No. 2 VEIN 12"
537			0.310	4.4	" " SPECIMAN CANARY YELLOW FROM NO 2
538			0.20	2.4	" " 18" VEIN NEAR F.W. SIDE
539			NIL	1.70	" " ALT. GR. PIRITE
540			NIL	0.90	BOULDER INN - QTZ, HEM. LIM. SPECIMAN
541			NIL	NIL	" " " " "
542			NIL	0.80	" " " " "
543			NIL	1.60	G.A.R. TRENCH A VEIN 2" BOXWORK SPECIMAN
544			NIL	1.20	" " 12"
545			NIL	2.15	" " 2"
546			NIL	NIL	" " 7"
547			0.12	6.17	" " 7"
548			NIL	1.00	" " 7"

BUFFALO LAKE MINES, LTD.
WHITE HILLS MINE

ASSAY SHEET

SAMPLE TAG NO.	DATE SENT	ASSAYER	AU	AG	REMARKS
549		Silver State	Nil	3.40	Boulder Inn - Specimen - Qtz, PbS J.C.
550			Nil	Nil	Bonita Cut - Random Grab of Sorted Pile. Highly Siliceous, Fe St Boxwork, Malachite, Azurite, PbS J.C.
551			Nil	1.25	Bonita Cut - 12" Grab Across Vein. Same Description as 550 J.C.
552			Tr.	8.50	G.A.R. Incline, 400 Level. 48" Chip Across Vein, Bottom 1/2 F.B.
553			.085	23.45	" " " 48" Chip Across Vein, Upper 1/2 F.B.
554			Nil	4.30	" " " Far East End 24" Chip, Gouge (R.K.)
555			Tr.	8.90	" " " Underhand Stope 30" Chip, East Edge Undha. Stope
556			Nil	15.78	" " " 18" Chip West Edge 300' ± West of Face
557			Tr	7.26	" " " 48" Chip Across Vein 100' ± Down from Collar
558			.085	27.515	" " " White Porphyry Pillar 24" Chip R.S.
559			.06	4.29	" " " Specimen Assay G.C. from Pillar
560			Tr.	10.856	Hulda Drift - 48" Chip Across Vein F.B.
561			.092	77.76	" " 12" Chip White Porph
562			Tr	15.44	" " 48" Chip Across Vein R.K.
563			Nil	2.60	" " Large Tramm 18" Cut
564			Nil	0.90	" " " " " R.K.
565			Nil	0.64	Grab Across Bonita Dump B.H.
566			Nil	0.37	Bonita, 42" Cut in Tunnel. B.H.
567			Nil	0.39	Grab from Bonita Dump B.H.
568			Tr	Tr	New Tramm Nose. Hulda 60" Chip Across Vein West-West 1st Foot Away Face
569			Tr	Tr	Same - 12" Barr Hoay Face Pin Stope
570			Tr	Tr	" 40" Chip Under Fall of Vein Very Friable, Cons. Under Ha
571			Tr	Tr	" 18" Cut, Upper Part of Vein Within Alt. Mat. Above Fa End
572			Tr	Tr	" Random Chip Over 20' of Face

BUFFALO LAKE MINES, LTD.

WHITE HILLS MINE

ASSAY SHEET

PLE TAG NO.	DATE SENT	ASSAYER	AU	AG	REMARKS
573	10-21-69	SILVER STATE	NIL	2^{12}	SCREEN PLANT AFRICAN # 9, 10, 12 -1/16"
574	"	"	NIL	2^{08}	" 1/16 - 1/2"
575	"	"	NIL	1^{77}	" +1"
576	"	"	NIL	1^{97}	" HEAD OF STAMPER BELT AT SCREEN: -1/16
577			NIL	24^{62}	HULDA - CHECK - RESAMPLE # 97 1-72"
578			TR	27^{82}	HULDA - EAST SIDE BOTTOM OF SHAFT: 48"
579			TR	3^{22}	" FACE OF STOPE - S.W. VEIN
580			TR	5^{39}	" " " " W. VEIN
581			NIL	1^{15}	" EAST DUMP - GRAB
582			NIL	1^{38}	" SHAFT DUMP
583					

BUFFALO LAKE MINES, LTD.

WHITE HILLS MINE

ASSAY SHEET

SAMPLE TAG NO.	DATE SENT	ASSAYER	AU	AG	REMARKS
520			TR	NIL	OCC
521			TR	NIL	
522			✓	✓	
523			✓	✓	
524			✓	✓	
525			✓	✓	
526			✓	✓	
527			✓	✓	
528			✓	✓	
529			✓	✓	
530			✓	✓	
531			NIL	2.45	60" CHIP OF VEIN, EAST WALL OCCIPENT. TRENCH
532			TR	NIL	
533			TR	.1	
534			005	NIL	OCC
535			020	5.3	RANDUM CHIP, 8' ALONG STRIKE GAR TRENCH
536			.060	10.3	✓ 12" CHIP ACROSS PART OF VEIN (NO 2 OLB)
537			.310	4.4	✓ CANARY YELLOW. ALT.?
538			.070	2.4	✓ 18" CHIP ACROSS VEIN NEAR F.W SIDE
			~~0.20~~	~~2.98~~	
244			0.20	2.98	RANDUM SAMPLE; VEIN ABOUT 6 A.C INCLINE
245			NIL	1.22	
246			0.15	1.35	

June 18th, 1969

Union Assay Office, Inc.
P.O. Box 1528
Salt Lake City, Utah 84110

Dear Sir:

On June 17th, via Garrett Freightlines, two (2) small steel drums of samples were shipped to your laboratory from Las Vegas.

These are numbered No. 1 and No. 2. Please crush, split and assay for Gold and Silver.

We will be in contact by telephone for the results

Sincerely,

BUFFALO LAKE MINES LTD.

J. J. Oberbillig

June 11th, 1969

Union Assay Office, Inc.
P. O. Box 1528
Salt Lake City, Utah 84110

Relative to our telephone conversation of this morning, enclosed please find our cheque in the amount of $100.00.

This is to be used as an advance retainer against assay charges.

Yesterday, via Greyhound, we shipped 9 split samples. These are to be run for Gold-Silver. Shortly we will have our crusher and pulverizer in operation, but in the meantime will have to rely on your facilities.

Please direct any correspondence, etc. to the Arizona address.

Very truly yours,

BUFFALO LAKE MINES LTD.

J. J. OBERBILLIG
RESIDENT MANAGER

No. 0042

Dept. _____ Date 4/11 19 [illegible]

Name [illegible] LTD (NIL)

Address _____

SOLD BY	CASH	C. O. D.	CHARGE	ON ACCT.	MDSE. RETD.	PAID OUT	

QUAN.		DESCRIPTION	PRICE	AMOUNT	
2	1	[illegible]	5.00	10.	00
	2				
	3				
	4				
	5				
	6				
	7				
	8				
	9				
	10				
	11				
	12				
	13	SILVER STATE MINERALS			
	14	TESTING LABORATORY			
	15	6247 East Charleston Blvd.			
	16	Mailing Address: P.O. Box 14850 Las Vegas, Nevada 89114			
	17	Telephone 737-5930			
	18				

Customer's Order No. _____ Rec'd By _____

KEEP THIS SLIP FOR REFERENCE

Rediform 5H 33

Silver State Minerals Testing Laboratory

ASSAYING

6274 EAST CHARLESTON BOULEVARD PHONE 737-5900

Mailing Address
P. O. Box 14850
LAS VEGAS, NEVADA 89114

April 11,1969

ASSAY NO. 4-4-G

Buffalo Lake Mines(N.P.L.)
Box 962-Las Vegas Star Route
Kingman,Arizona 86401

ASSAY REPORT

MATERIAL: rock,gravel.

ASSAYED FOR: gold,silver.

FOUND

SAMPLE	Gold	Silver
#1 (grab sample from trucks to #1 leach tank)	0.08 oz/ton	6.9140 oz/ton
#2 (grab sample from truck ore to #2 leach tank)	0.11 oz/ton	11.178 oz/ton

ASSAYER
J. BONOCCHI

Silver State Minerals Testing Laboratory

ASSAYING

6274 EAST CHARLESTON BOULEVARD PHONE 737-5900

Mailing Address
P. O. Box 14850
LAS VEGAS, NEVADA 89114

July 11,1969

ASSAY NO. 7-2-B

Buffalo Lake Mining Inc.
Las Vegas, Route,Box 962
Kingman, Arizona

ASSAY REPORT

MATERIAL: rock,ore.

ASSAYED FOR: gold,silver.

FOUND

SAMPLE	GOLD	SILVER
#1	nil	nil
#2	nil	0.830 Oz/ton
#3	nil	0.950 oz/ton
#4	nil	1.240 oz/ton
#5		
#5	nil	nil
#6	nil	nil
#7	nil	nil
#8	nil	1.030 oz/ton
#9	nil	4.210 oz/ton
#10	nil	0.990 oz/ton
#11	nil	2.250 oz/ton
#12	nil	1.240 Oz/ton
Fines	trace	7.60 oz/ton
Course	nil	1.880 oz/ton

ASSAYER-
J. BONOCCHI

TO/

Bolmage Campbell & Associates Ltd.,

808 - 900 West Hastings Street

Vancouver, B.C.

L F Jory

Certificate of Assay

COAST ELDRIDGE

PROFESSIONAL SERVICES DIVISION

WARNOCK HERSEY INTERNATIONAL LIMITED

125 EAST 4TH AVE. VANCOUVER 10, B.C., CANADA

CTA

PHONE: (604) 876-4111
TELEX: 04-50353
CABLE ADDRESS: ELDRICO

FILE NO. A.3-D.2-69-4265

DATE February 4, 1969

White Hills Silver Property, near Kingman, Arizona

We Hereby Certify *that the following are the results of assays made by us upon submitted* ORE *samples*

MARKED		GOLD OUNCES PER TON	GOLD VALUE PER TON	SILVER OUNCES PER TON	Mercury (Hg) PER CENT.	PER CENT.	PER CENT. width	PER CENT.	PER CENT.	PER CENT.
			$							
4717	Horn Silver, West Shaft			0.14		chip -	4'			
4718	" " , Main Shaft			0.54		"	2'9"			
4719	" " Mine dump			5.8		grab	2'			
4720	Norma No 2, 1st level			0.04		chip				
4721	Sheffield's Treasure - Surface			2.0		chip	3.5'			
4722	Norma No 1	dump		1.7		grab				
4723	" "	"		7.4		"				
4724	Prince Albert,	small tunnel		0.79		chip	1.5'			
4725	" " ,	wings		0.11		"	2.0'			
66201	" "	"		4.8		"	2.0'			
66202	G.A.R. Mine	dump		1.8		grab				
66203	" "	"		2.8		"				
66204	" "	"		1.9		"				
66205	" Mill	Tailings		2.2	Trace	"				
66206	" "	"		4.2	0.03	"				

Gold calculated at $ ..... *per ounce*

Note. Rejects retained one week.
Pulps retained one month.
Pulps and rejects may be stored for a maximum of one year by special arrangement.

Unless it is specifically stated otherwise, gold and silver values reported on these sheets have not been adjusted to compensate for losses and gains inherent in the fire assay process.

H. Shayles ..... *Provincial Assayer*

FORM G96 (REV. 5-65)

age Campbell & Associates

A)

L. J. Jory

Certificate of Assay

COAST ELDRIDGE

PROFESSIONAL SERVICES DIVISION
WARNOCK HERSEY INTERNATIONAL LIMITED
125 EAST 4TH AVE. VANCOUVER 10, B.C., CANADA

PHONE: (604) 876-4111
TELEX: 04-50353
CABLE ADDRESS: ELDRICO

FILE NO. A.3-F.2-69-4265

DATE February 4, 1969

We Hereby Certify *that the following are the results of assays made by us upon submitted* ORE *samples*

MARKED	GOLD OUNCES PER TON	GOLD VALUE PER TON	SILVER OUNCES PER TON	Mercury (Hg) PER CENT.	PER CENT.	PER CENT.	PER CENT.	PER CENT.	PER CENT.
		$							
66207 G.A.R. Mill Tailings			5.7	0.02	grab				
66208 Abe Lincoln Surface Pile			1.3		"				
66209 Occident Mill Tailings			4.1	0.02	"				
66210 "	"		4.6	0.01	"				
66211 "	"		4.2	0.015	"				

Gold calculated at $ ..... *per ounce*

Note. Rejects retained one week.
Pulps retained one month.
Pulps and rejects may be stored for a maximum of one year by special arrangement.

Unless it is specifically stated otherwise, gold and silver values reported on these sheets have not been adjusted to compensate for losses and gains inherent in the fire assay process.

H. Shayler

Provincial Assayer

FORM 606 (REV. 5-68)

PHONE 684-7311

Buffalo Lake Mines Ltd. (N.P.L.)

1300 MARINE BUILDING, 355 BURRARD STREET, VANCOUVER 1, B.C., CANADA

October 20th, 1969.

LETTER TO THE SHAREHOLDERS:

Your Directors are pleased to announce that since our last report detailed evaluation and studies were initiated and recently completed at White Hills Mine, Arizona, during which time it was only possible to operate the leaching facilities on an intermittent basis. Approximately 2,000 oz. of gold-silver bullion has been poured as a result of the bulk sampling and leaching program.

Metallurgical screen analysis and preliminary cyanidation tests have been conducted by the Galigher Co. of Salt Lake City, Utah, on the various dump material remaining from the 1900 operation. It was determined that the greatest portion of values in the dumps are in the size fraction of (2") minus. The ore must be crushed and screened to a maximum size of 1/2 inch to effect efficient cyanide batch leaching. The size fraction of 1/16 inch minus is screened from the batch-leach ore and is presently being stockpiled. This will be treated in a conventional agitation-leach circuit.

A closed circuit screening-crushing plant has been acquired on a lease-purchase basis, and is presently being used to reduce and separate the two size fractions of ore.

The batch-leaching facilities acquired with the property are being used as a nucleus. However, various additions and improvements were necessary to increase capacity and efficiency. Perforated pipes have been installed in the bottom of the leach tank to introduce compressed air into the leaching ore. This facilitates the cyanide leaching process.

Twelve new zinc precipitator tanks were added to the circuit, increasing the capacity of precipitation of the pregnant solution.

Two 11,000 gallon steel tanks have been added to increase the storage and mixing capacity of cyanide solutions. The smelting furnace has been re-built and new moulds added. Various structural changes have been made to the existing mill buildings.

A 32 ft. by 44 ft. concrete block building has been constructed on the premises. One half is being set up as an assay and metallurgical control laboratory, while the other half will be used as a change-room for the mine and mill workers.

A preliminary sampling program has recently been completed on several underground and newly exposed surface veins. Values vary from 10 to 78 oz. silver over widths from 12" to

48", with considerable strike length. Detailed sampling and developments of these veins are presently under way to determine the extent and gross tonnage. As all of these areas are readily accessible, the development ore will be blended with the surface dump ore and leached in a continuous exploration, development and production program.

Effective October 15th, Mr. Floyd Brown will assume the duties of Mine Manager. For the past five years Mr. Brown has been Mine Superintendent of a mercury mine located in the southern coast range of California. We feel most fortunate in acquiring him, as he has had a number of very successful years as operator and lessor of the White Hills Mine during the 1930's.

The operation is now proceeding at maximum capacity, processing both old surface dumps plus the addition of newly developed ore. This, combined with the recent steady increase in the price of silver, projects a most favourable forthcoming year.

J. J. Oberbillig,
Managing Director.

BUFFALO LAKE MINES, LTD.

WHITE HILLS MINE 301 —

ASSAY SHEET

AMPLE TAG NO.	DATE SENT	ASSAYER	AU	AG	REMARKS
301					
302					
303					
304					
305					
306					
307					
308					
309					
310					
311					
312		UNION S.S.	.01 NIL	0.4 0.69	
313		UNION	.01	2.8	
314		"	.110	0.8	
315		UNION SS	.02 NIL	0.8 NIL	
316			.010	0.3	
317			005	1.1	
318		UNION SS	.09 NIL	0.8 1.285	
319			NIL	0.85	
320		UNION	TR	0.1	
321		"	TR	0.4	
322		UNION S.S.	TR NIL	0.3 NIL	
323		UNION	.010	0.4	
324		UNION.	TR	0.3	

BUFFALO LAKE MINES, LTD.

WHITE HILLS MINE

ASSAY SHEET

PLE TAG NO.	DATE SENT	ASSAYER	AU	AG	REMARKS	
25		UNION	TR	NIL		
26		"	TR.	0^{60}		
327			NIL	$1.^{70}$ ~~NIL~~		
328			NIL	0^{90}	G.A.R. DUMP NORTH +1"	10-2
329			NIL	1^{11}	" " -1" + 1/8"	10-2
330			NIL	1^{92}	" " - 1/8"	"
331			NIL	0^{25}	" " +1"	"
332			TR	1^{05}	" " -1" + 1/8"	"
333			NIL	3^{25}	" " - 1/8"	"
334			NIL	2^{20}	" " - 1/8"	10-3
335			NIL	0^{62}	" " -1" + 1/8"	"
336			NIL	0^{97}	" " +1"	"
337			NIL	1^{44}	" " +1"	"
338			NIL	1^{46}	" " -1" + 1/8"	"
339			NIL	2^{46}	" " - 1/8"	"
340			NIL	2^{98}	" " +1"	"
341			NIL	5^{16}	" " - 1/8"	"
342			NIL	1^{00}	" " -1" + 1/8"	"
343			NIL	1^{08}	No 1 LEACH TANK + 1/16 TO - 1/2"	10/23
344			NIL	2^{170}	SCREENING PLANT - 1/16	10/23
345			NIL	0^{06}	" + 1/16 - 1/2	
346			NIL	0^{78}	" +1"	
347			NIL	2^{24}	No. 2 LEACH TANK - 1/2 + 1/16	
348			NIL	NIL	SCREENING PLANT +1"	10/28

BUFFALO LAKE MINES, LTD.

WHITE HILLS MINE

ASSAY SHEET

PLE TAG NO.	DATE SENT	ASSAYER	AU	AG	REMARKS
49			Nil	20^{024}	Screening Plant +1/16 −1/2 10/24
50			Nil	3^{330}	" −1/16" 10/24
51			Tr	8^{208}	" −1/16" 10/25
52			Tr	5^{34}	" +1/16" −1/2 10/25
353			0^{09}	10^{554}	" +1" 10/25
354			Tr	4^{00}	" +1" 10/27
355			Tr	3^{56}	" −1/2 +1/16 10/27
356			Tr	7^{068}	No. 2 Leach Tank - Truck Grabs 10/27
357			Tr	7^{70}	Screening Plant −1/16 10/27
358			Tr	3^{472}	No. 2 Leach Tank - Truck Grabs
359			Tr	8^{872}	Screening Plant −1/16" 10/28
360			Tr	6^{66}	" +1" 10/28
361			Tr	3^{510}	" −1/16 +1/2 10/28
362			Tr	6^{08}	" +1" 10/30
363			Tr	6^{65}	" +1/16 −1/2 10/3
364			Tr	10^{00}	" −1/16 10/30
365			Nil	4^{74}	Leach Tank No. 1 10/31
366			Tr	9^{78}	Screen Room −1/16" 10/31
367			Nil	5^{46}	" +1/16 −1/2 10/31
368			Nil	1^{40}	" +1" 10/31
369			Nil	6^{43}	" +1/16 −1/2 ~~[illegible]~~ 11/1
370			Tr	9^{80}	" −1/16" 11/1
371			Tr	10^{84}	Leach Tank No. 1 11/1
372					Grab or Tails L.T. No. 1

BUFFALO LAKE MINES, LTD.

WHITE HILLS MINE

601 - 700

ASSAY SHEET

AMPLE TAG NO.	DATE SENT	ASSAYER	AU	AG	REMARKS
601		SILVER STATE	TR	0.775	EMMA S.E. DUMP SEE SAMPLE TAG SECTION
602		"	TR	1.52	" " " "
603		"	NIL	0.95	" " " "
604		"	NIL	0.22	" " " "
605		"	NIL	0.905	" S.E. CUT, FACE GRAB
606		"	NIL	0.67	" " DUMP, "SPOILS"
607		"			" N.W. " #2 VEIN, SOUTH
608		"	NIL	0.24	" " " " " NORTH
609		"	NIL	0.855	" NE. " " " SOUTH
610		"	NIL	0.25	" N.W. " " "
611		"	NIL	0.23	" N.W. " " "
612		"	NIL	0.25	" " " " "
613		"	TR	0.44	" " " " "
614		"	NIL	NIL	" S.E. FACE, CUT, 8"
615		"	NIL	1.05 / 1.10	" S.E. DUMP
616		"	NIL	0.715 ~~0.75~~	" " "
617		"	NIL	0.15	" " "
618		"	NIL	0.95	" VEIN No. 3, SHAFT 2' FACE, E.
619		"	NIL	NIL	" " " " 2' FACE, W.
620		"	NIL	0.45	G. A. R. TRENCH, A, VEIN, 42" SEE MAP
621		"	NIL	0.90	" " " 52"
622		"	NIL	0.30	" " " 52"
623		"	TR	3.04	" " " 37"
624		"	NIL	1.25	" " " 40"

BUFFALO LAKE MINES, LTD.

WHITE HILLS MINE

ASSAY SHEET

PLE TAG NO.	DATE SENT	ASSAYER	AU	AG	REMARKS
.25		Silver State	NIL	0.70	G.A.R. Trench, "A Vein, 52" SEE MAP CUT
626		✓	NIL	NIL	" " 46"
627		✓	NIL	NIL	" " 45"
628		✓	0.15	3.13	" " 34"
629		✓	NIL	1.150	" " 21"
630		✓	NIL	0.850	" " 42"
631		✓	TR	3.490	" " 36" EAST WALL
632		✓	TR	1.425	" " 20" WEST WALL
633		✓	NIL	3.20	" " 60" "
634		✓	NIL	0.50	Blaine, Hole No. 1 West Side, 34"
635		✓	NIL	NIL	" " East " , 40"
636		✓	NIL	NIL	" " 2 West " 31"
637		✓	NIL	NIL	" " " East " 30"
638		✓	NIL	TR	" , Dump No. 2
639		✓	NIL	1.00	" Hole No 3 40"
640		✓	TR.	3.20	" " 25"
641		✓	NIL	0.88	" Dump No. 3
642		✓	NIL	0.955	" Hole No 4 53"
643		✓	NIL	0.30	" Hole No. 5 Dump
644		✓	TR	2.46	" " " 6 48"
645		✓	NIL	0.20	" " " " 56"
646		✓	NIL	0.40	" Dump No 6
647		✓	NIL	1.55	" Hole No. 7 73"
648		✓	NIL	3.12	" Dump No 7

BUFFALO LAKE MINES, LTD.

WHITE HILLS MINE

ASSAY SHEET

AMPLE TAG NO.	DATE SENT	ASSAYER	AU	AG	REMARKS
649			NIL	NIL	BLAINE, HOLE No 7 76"
650			NIL	NIL	" " 9 80"
651			NIL	NIL	" DUMP No. 9
652			NIL	3.40	" HOLE No. 9 70"
653			NIL	0.78	" " " 37"
654			NIL	2.55	" " " 47"
655			TR	4.40	" " 8 16"
656			NIL	5.950	" DUMP ~~[illegible]~~ 8
657			NIL	NIL	" HOLE No. ~~[illegible]~~ 8, 24"
658			0.10	21.04	" " ~~[illegible]~~ 10 ~~[illegible]~~ 36"
659			TR	1.85	" ~~DUMP No. 14~~ HOLE NO. 2 28"
660			NIL	NIL	" ~~#20, COMPOSITE OF 4 SMALL DUMPS~~ DUMP NO 10
661			NIL	0.25	" HOLE No. 14 56"
662			NIL	0.40	" " " " 47"
663			NIL	0.90	" " " " 50"
664			NIL	0.45	" " " " 40"
665			NIL	0.95	" " " 11 24"
666			NIL	0.85	" " " " 30"
667			NIL	NIL	" " " " 22"
668			NIL	2.03	" " " " 36"
669			NIL	NIL	" DUMP No. 11 GRAB
670			NIL	1.78	" " " 12
671			NIL	~~0.85~~ 1.03	" " " 13
672			NIL	~~[illegible]~~ 0.253	" HOLE No 13 EAST WALL 27"

BUFFALO LAKE MINES, LTD.

WHITE HILLS MINE

ASSAY SHEET

MPLE TAG NO.	DATE SENT	ASSAYER	AU	AG	REMARKS
73			TR	0.200	BLAINE, HOLE No. 13 26"
674			NIL	NIL	" " " " 33"
675			NIL	0.85	" " " " 45"
676			NIL	0.55	BLAINE DUMP No. 14
677			NIL	1.14	" HOLE No. 14 30"
678			NIL	0.90	" DUMP No. 15
679			NIL	1.10	" " " 16
680			TR	0.155	" HOLE No. 17 23"
681			NIL	0.25	" " " 17 39"
682			TR	7.110	" " " " 41"
683			NIL	0.17	" " " " 29"
684			NIL	0.55	" " " " 38"
685			NIL	0.255	" " " " 44"
686			NIL	0.15	" DUMP No. 17
687			NIL	0.25	" " " 18
688			TR	3.370	" HOLE No 19 19"
689			TR	38.104	BLAINE, " " " 12"
690			TR	13.06	" DUMP No. 19
691			NIL	NIL	" HOLE No 20 25"
692			NIL	NIL	" #20, COMPOSITE, 4 SMALL DUMPS
693			NIL	NIL	" DUMP No. 21
694			NIL	0.40	" HOLE No 21 45"
695			NIL	0.40	" " " " 24"
696			NIL	1.40	" HOLE No. 21 24"

BUFFALO LAKE MINES, LTD.

WHITE HILLS MINE

ASSAY SHEET

AMPLE TAG NO.	DATE SENT	ASSAYER	AU	AG	REMARKS
697		Silver State	NIL	NIL	Blaine, Hole No. 21 24"
698			Tr.	9.65	Blaine, Dump No. 22
699			NIL	0.40	" Hole No. 22 24"
700			NIL	0.77	" " " 23 23"

701 – 800

BUFFALO LAKE MINES, LTD.

WHITE HILLS MINE

ASSAY SHEET

SAMPLE TAG NO.	DATE SENT	ASSAYER	AU	AG	REMARKS
~~725~~	~~9-20~~	~~SILVER STATE~~	~~NIL~~		
701		SILVER STATE	TR	0.930	HORN SILVER OVERSIZE 9-18 #1
702		"	NIL	* 4.23	" −1" + 1/8" 9-18 #1
703		"	NIL	1.15	" − 1/8" 9-18 #1
704		"	NIL	3.79	" − 1/8" 9-18 #2
705		"	TR	1.100	" +1" 9-18 #2
706		"	NIL	1.85	" −1" − + 1/8" 9-18 #2
707		"	NIL	1.64	" OVERSIZE (+1") 9-18 #6
708		"	NIL	* 4.00	" −1" + 1/8" 9-18 #6
709		"	TR.	4.3	" − 1/8 9-18 #6
710		"	TR	* 10.868	" +1" 9-18
711		"	TR	3.22	" − 1/8" 9-18
712		"	TR	1.150	" −1" + 1/8" 9-18
713		"	NIL	* 4.06	" − 1/8 9-18
714		"	NIL	2.69	" −1" − 1/8" 9-18
715		"	NIL	1.10	" +1" 9-18
716		"	TR	1.50	" +1" 9-18
717		"	NIL	1.87	" − 1/8" 9-18
718		"	TR	2.218	" −1" + 1/8" 9-18
719		"	NIL	3.18	NORMA No. 1 +1" 9-18
720		"	.08	* 4.225	" − 1/8" 9-18
721		"	TR	* 7.27	" − 1/8" 9-18
722		"	TR.	* 4.66	" +1" 9-18
723		"	TR	* 5.65	" −1" + 1/8" 9-18

UFFALO LAKE MINES, LT

WHITE HILLS MINE

ASSAY SHEET

AMPLE TAG NO.	DATE SENT	ASSAYER	AU	AG	REMARKS	
724		SILVER STATE	.06	* 7.84	NORMA No. 1 (#23) - 1/8"	9-18
725		"	NIL	2.40	" +1"	9-19
726		"	NIL	* 4.80	" -1" + 1/8	9-19
727		"	TR.	* 7.325	" - 1/8"	9-19
728		"	TR	1.50	" +1"	9-20
729		"	TR	* 6.26	" - 1/8"	9-20
730		"	TR	1.68	" -1" + 1/8	9-20
731		"	NIL	3.02	" +1"	9-20
732		"	TR	* 9.38	" - 1/8"	9-20
733		"	TR	1.26	" -1" + 1/8"	9-20
734		"	NIL	2.56	" +1"	9-20
735		"	TR	* 9.34	" - 1/8"	9-20
736		"	NIL	* 4.60	" -1" + 1/8"	9-20
737		"	TR	3.07	" +1"	9-20
738		"	TR	* 8.77	" - 1/8"	9-20
739		"	NIL	* 5.42	" -1" + 1/8"	9-20
740		"	NIL	0.58	" E +1"	9-22
741		"	.04	* 6.81	" E - 1/8"	9-22
742		"	TR	* 13.72	" E -1" + 1/8"	
743		"	NIL	NIL	" E +1"	9-22
744		"	TR	* 5.810	" E - 1/8"	9-22
745		"	.05	* 4.52	" E -1" + 1/8"	9-22
746		"	TR	* 6.92	" E +1"	9-22
747		"	TR	* 5.80	" E - 1/8"	9-22
748		"	TR	* 5.84	E -1" + 1/8"	9-22

BUFFALO LAKE MINES, LTD.

WHITE HILLS MINE

ASSAY SHEET

SAMPLE TAG NO.	DATE SENT	ASSAYER	AU	AG	REMARKS			
749		Silver State	Tr	*8.00	Norma No. 1	W	-1/8"	9-22
750		"	Nil	1.72	"	W	+1"	9-22
751		"	Nil	1.50	"	W	-1" + 1/8"	9-22
752			Nil	2.96	"	W	+1"	9-24
753			Nil	2.07	"	W	+1"	"
754			Nil	2.54	"	"	+1"	"
755			Nil	0.35	"	"	-1" + 1/8"	"
756			Nil	*6.24	"	"	-1/8"	"
757			Nil	3.82	"	"	-1/8"	"
758			Nil	2.46	"	"	-1" + 1/8"	"
759			Nil	1.65	"	"	-1/8"	"
760			Tr	3.50	"	"	-1" + 1/8"	"
761			Nil	1.12	"	"	+1"	9-25
762			Nil	0.90	"	"	-1" + 1/8	"
763			Nil	3.02	"	"	-1/8"	"
764			Nil	0.70	"	"	+1"	"
765			Nil	3.11	"	"	-1/8"	"
766			Nil	2.05	"	"	-1" + 1/8"	"
767			Nil	8.82	Horn Silver & Norma		+1"	9-26
768			Nil	2.65	"	"	-1" + 1/8"	"
769			Tr	3.56	"	"	-1/8"	"
770			Nil	0.935	"	"	+1"	"
771			Nil	0.905	"	"	-1" + 1/8"	"
772			Tr	3.56	"	"	-1/8"	"
773			Nil	Nil	G. A. C.		+1"	"

BUFFALO LAKE MINES, LTD.

WHITE HILLS MINE

ASSAY SHEET

AMPLE TAG NO.	DATE SENT	ASSAYER	AU	AG	REMARKS			
774			TR	2^{11}	GAR		+ 1/8"	9-26
775			NIL	2^{10}	"		-1"+1/8"	"
776			NIL	0^{73}	"		+1"	"
777			NIL	2^{111}	"		+1"+1/8"	"
778			NIL	1^{38}	"		-1/8"	"
779			NIL	1^{20}	"	CENTER	+1"	9-29
780			NIL	1^{74}	"	"	-1"+1/8"	"
781			NIL	1^{46}	"	"	-1/8"	"
782			NIL	1^{36}	"	"	+1"	"
783			NIL	2^{10}	"	"	-1"+1/8"	"
784			NIL	1^{94}	"	"	-1/8"	"
785			NIL	1^{05}	"	"	-1"+1/8"	"
786			NIL	0^{60}	"	"	-1/8"	"
787			NIL	0^{25}	"	"	+1"	"
788			NIL	3^{55}	"	"	+1"	"
789			NIL	3^{42}	"	"	-1"+1/8"	"
790			NIL	1^{92}	"	"	-1/8"	"
791			NIL	3^{10}	"	"	+1"	"
792			NIL	0^{50}	"	"	-1"+1/8	"
793			TR	3^{56}	"	"	-1/8"	"
794			NIL	1^{55}	G.A.R	DUMP. CENTER	+1"	9-30
795			NIL	1^{80}	"	"	-1"+1/8"	"
796			TR	4^{18}	"	" "	-1/8"	"
797			TR	3^{39}	"	" "	+1"	"

BUFFALO LAKE MINES, LTD.

WHITE HILLS MINE

ASSAY SHEET

LE TAG NO.	DATE SENT	ASSAYER	AU	AG	REMARKS
798			NIL	1.40	GAR. CENTER -1" + 1/8" 9-30
799			NIL	2.58	" " - 1/8" "
800					

BUFFALO LAKE MINES, LTD.

WHITE HILLS MINE

801 – 900

ASSAY SHEET

AMPLE TAG NO.	DATE SENT	ASSAYER	AU	AG	REMARKS
801			TR	3.28	BLAINE HOLE No. 23 38"
802			NIL	NIL	" " " 18"
803			TR.	5.60	" DUMP "
804			NIL	0.15	" HOLE " 24"
805			0.12	28.42	" " " 14"
806			NIL	NIL	" " " 18"
807			NIL	3.67	" DUMP 24
808			NIL	NIL	OCCIDENT HOLE No. 1 71"
809			NIL	NIL	" " 42"
810			NIL	NIL	" " 33"
811			NIL	NIL	" " 35"
812			NIL	NIL	" " COMP GENERAL SAMP
813			NIL	NIL	" " "
814			NIL	0.25	" " WEST WALL
815			NIL	NIL	" " 30" EAST WALL
816			NIL	NIL	" " 9'4" WEST WALL
817			NIL	NIL	" "
818			NIL	0.60	" " WEST WALL
819			NIL	NIL	" " "
820			NIL	NIL	" HOLE No. 2 17"
821			NIL	NIL	" " 14"
822			NIL	1.25	" " EAST WALL FLOOR
823			NIL	NIL	" " "
824			NIL	0.35	" " "

BUFFALO LAKE MINES, LTD.

WHITE HILLS MINE

ASSAY SHEET

AMPLE TAG NO.	DATE SENT	ASSAYER	AU	AG	REMARKS
825			NIL	0.45	OCCIDENT HOLE No. 2 WEST WALL FLOOR
826			NIL	NIL	" " " "
827			NIL	0.25	" " " "
828			NIL	NIL	" " "
829			NIL	0.15	" " " 3 NORTH WEST SIDE
830			NIL	1.35	" " " NORTH WALL
831			NIL	0.90	" " "
832			NIL	0.25	" " "
833			NIL	0.94	" " "
834			NIL	0.855	" " No. 2 S. W. CORNER
835			NIL	1.35	G. A. R. TRENCH, No. 2 VEIN, 40"
836			NIL	3.54	" " " 19"
837			NIL	1.10	" " " E. SIDE FLOOR 60
838			NIL	NIL	" " " " 60
839			NIL	0.42	" " " " 60
840			NIL	0.20	" " " " 63"
841			NIL	0.75	" " " " 66"
842			NIL	0.86	" " " " 6"
843			NIL	0.15	" " " " 9"
844			NIL	NIL	" " " " 17"
845			NIL	NIL	" " " " 23"
846			NIL	0.15	" " " " 48"
847			NIL	0.24	" " " " 60"
848			NIL	0.15	" " " " 60"

BUFFALO LAKE MINES, LTD.

WHITE HILLS MINE

ASSAY SHEET

AMPLE TAG NO.	DATE SENT	ASSAYER	AU	AG	REMARKS
849			NIL	0.15	GAR TRENCH, NO. 2 VEIN WEST SIDE FLOOR 24"
850			NIL	0.15	" " " 45"
851			NIL	NIL	" " " 60"
852			NIL	NIL	" " " 60"
853			NIL	0.80	" " " 60"
854			NIL	NIL	" " " 21"
855			NIL	0.85	" " " 36"
856			NIL	0.40	" " " 18"
857			NIL	NIL	" " " 11"
858			NIL	NIL	" " " 24"
859			NIL	NIL	" " " 48"
860			NIL	0.25	" " " 20"
861			TR	8.37	" " " 31"
862			NIL	NIL	" " " 23"
863			NIL	NIL	EMMA TRENCH EAST END CUT 41"
864			NIL	0.55	" " " " 31"
865			NIL	0.32	" " " " 44"
866			NIL	0.25	" " " " 41"
867			NIL	0.25	" " " " 34"
868			NIL	0.61	" " " " 36"
869			NIL	2.20	" " " " 42"
870			NIL	1.82	" " " " 36"
871			NIL	0.60	" " " " 48"
872			NIL	1.05	" " " " 48"

BUFFALO LAKE MINES, LTD.

WHITE HILLS MINE

ASSAY SHEET

SAMPLE TAG NO.	DATE SENT	ASSAYER	AU	AG	REMARKS
873			NIL	0.80	EMMA TRENCH, NO 3 EAST END CUT, 36"
874			NIL	0.40	" " 29"
875			NIL	0.38	" " 12"
876			NIL	0.41	" " 22"
877			NIL	0.41	" " 24"
878			NIL	NIL	" No. 4 NORTH WALL OF TUNNEL
879			NIL	0.30	" " " 41"
880			NIL	0.55	" " " 22"
881			NIL	0.60	" " " 12"
882			NIL	1.55	" " " 30"
883			NIL	NIL	" " " 20"
884			NIL	0.62	" " " 46"
885			NIL	0.70	" " " 18"
886			NIL	0.25	" " " 24"
887			NIL	NIL	" " SOUTH WALL OF TUNNEL 24"
888			NIL	0.25	" " " 16"
889			NIL	1.35	" " " 9"
890			NIL	0.46	AFRICAN UPPER CUT 36"
891			NIL	0.25	" 60"
892			NIL	0.15	" 60"
893			NIL	NIL	" 60"
894			NIL	0.15	" 60"
895			NIL	0.31	" 60"
896			NIL	0.25	" 60"

[illegible]FALO LAKE MINES, LTD

WHITE HILLS MINE

ASSAY SHEET

LE TAG NO.	DATE SENT	ASSAYER	AU	AG	REMARKS
97			NIL	0.25	AFRICAN No 7 60"
98			NIL	NIL	DUMP #1 N.E. OF CHIEF OF HILLS
99			NIL	0.40	" #2 " "
00			NIL	0.25	" #3 " "

Telephone 363-3302

Hand Sample Serial 13202-13208

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

W. C. WANLASS, President
L. G. HALL, Vice President
G. P. WILLIAMS, Treasurer
GERALDINE A. WANLASS, Secretary
P. O. Box 1528
Salt Lake City, Utah 84110

Mine Buffalo Lake Mines Ltd.
Box 962
Las Vegas Star Route Kingman, Arizona 86001

RESULTS PER TON OF 2000 POUNDS April 15, 1970

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Wet on Ore	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per Cent
594	Trace	9.7		2.494							
595	Trace	10.5		2.998							
596	Trace	9.3		2.116							
597	Trace	9.6		1.864							
598	Trace	6.5		1.965							
599	Trace	0.6		0.617							
T-600	0.050	1.5		0.812							

Remarks

Charges $ 38.50

G. P. Williams

also reference Utah International

Charles Kunkas - mine owner

El Dorado Canyon
Las Vegas Star Rt
Bauder Inn
Kingman Ariz
Mile Post ±30 (from Dam)