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ARIZONA SILVER
CORPORATION

Suite 1140-625 Howe Street
Vancouver, B.C. V6C 2T6
(604) 689-5588
U.S. Subsidiary — Corval Development Inc.

April 1, 1987

Doug Martin
D.K. MARTIN & ASSOCIATES
4728 North 21st Avenue
Phoenix, Arizona 85015

Dear Doug:

As per our telephone conversation I have enclosed a copy of Huskinson's report on the Hibernia Mine.

We presently have one other outfit reviewing this data, but to date nothing has materialized.

This property could be bought outright for thirty thousand dollars ($30,000) U.S. or alternatively, a deal could be worked whereby a company could earn an interest through the expenditure of a certain amount of money on the property and some cash up front.

Call me if you have any questions.

Sincerely,

Corwin Coe

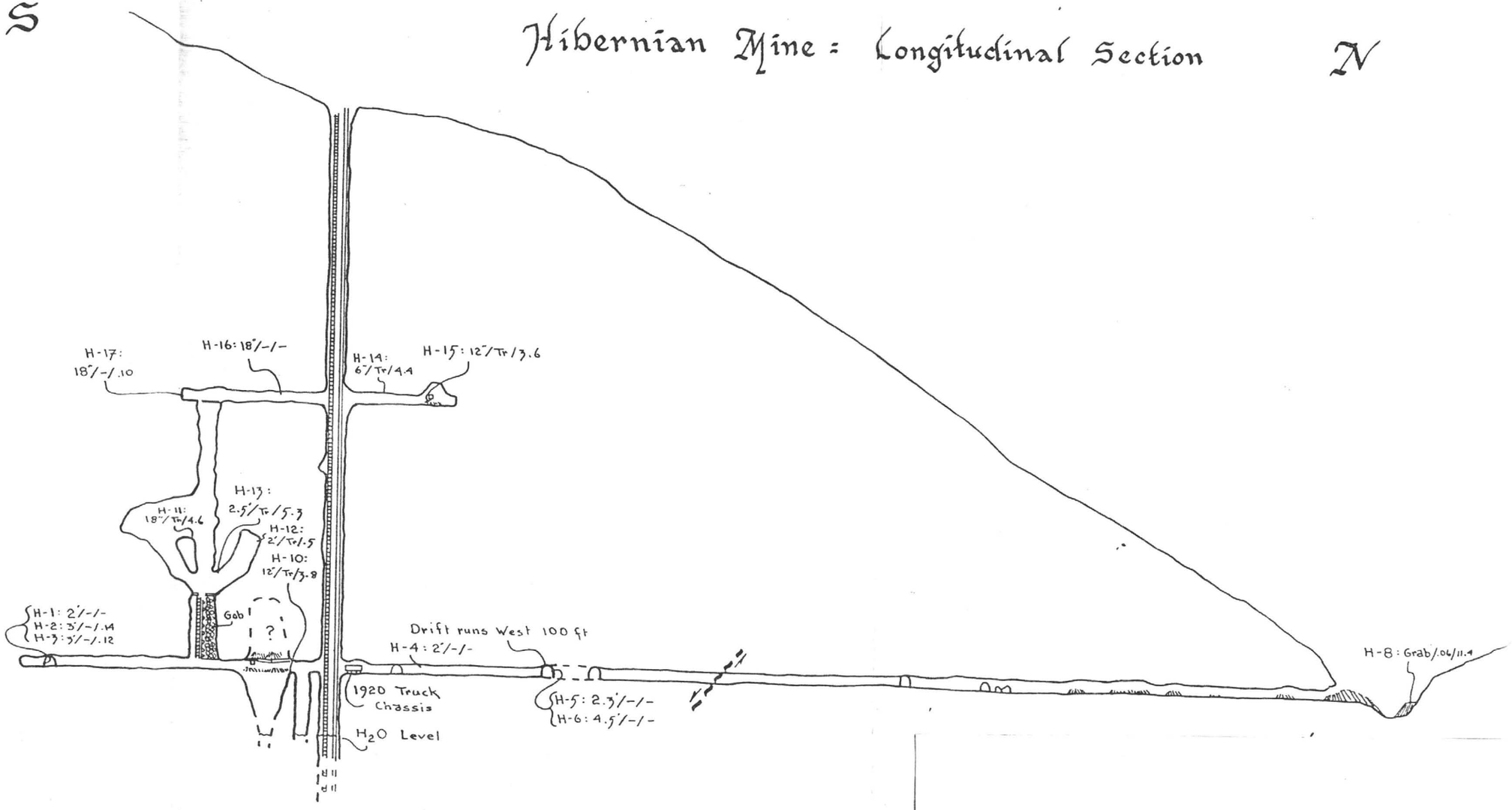
CC/ns

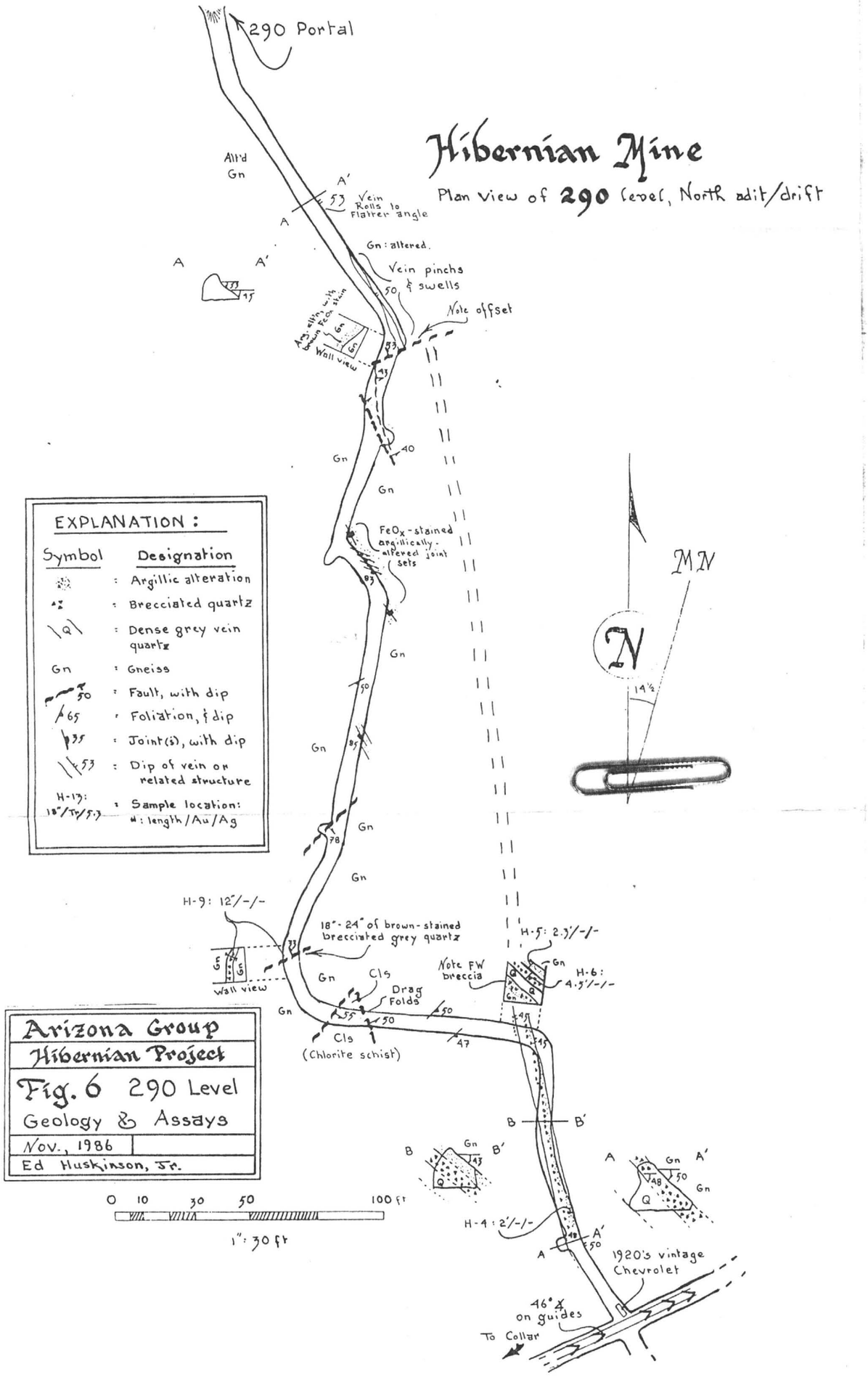
Encl.

S

Hibernian Mine: Longitudinal Section

N




290 Portal
Hibernian Mine
Plan view of 290 level, North adit/drift
Allrd Gn
A
A'
53
Vein Rolls to Flatter angle
Gn: altered.
Vein pinches & swells
Note offset
Arg. alter. with brown Fe Ox stain
Wall view
Gn
FeOx-stained argillically-altered joint sets
MN
N
14½
EXPLANATION :
Symbol
Designation
: Argillic alteration
: Brecciated quartz
Q : Dense grey vein quartz
Gn : Gneiss
: Fault, with dip
: Foliation, & dip
: Joint(s), with dip
: Dip of vein or related structure
H-17: 18"/Tr/5.7 : Sample location: #: length/Au/Ag
H-9: 12"/-/-
18"-24" of brown-stained brecciated grey quartz
H-5: 2.3'/-/-
Note FW breccia
H-6: 4.5'/-/-
Drag Folds
Cls
(Chlorite schist)
B
B'
H-4: 2'/-/-
1920's vintage Chevrolet
46° ∠ on guides
To Collar
Arizona Group
Hibernian Project
Fig. 6 290 Level
Geology & Assays
Nov., 1986
Ed Huskinson, Jr.
0 10 30 50 100 ft
1": 30 ft

Hibernian Mine

Plan view of **290** level, North adit/drift

290 Portal

All'd Gn

A — A'

53 Vein Rolls to Flatter angle

Gn : altered.

Vein pinchs & swells

50

Note offset

Arg. alt'n with brown FeOx stain

Gn

Wall view

53

43

40

Gn

Gn

FeO_x - stained argillically - altered joint sets

83

Gn

50

85

Gn

78

Gn

Gn

H-9: 12"/-/-

18" - 24" of brown-stained brecciated grey quartz

33

Gn Gn

Wall view

Gn Cls

Drag Folds

55 50 50

Cls

(Chlorite schist)

47

H-5: 2.3'/-/-

Note FW breccia

Gn

Q Q Gn

H-6: 4.5'/-/-

45 45

B — B'

B Gn B'

43

Q

A Gn A'

48 50

Q Gn

H-4: 2'/-/-

A — A'

50

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Arizona Group	
Hibernian Project	
Fig. 6 290 Level Geology & Assays	
Nov., 1986	
Ed Huskinson, Jr.	

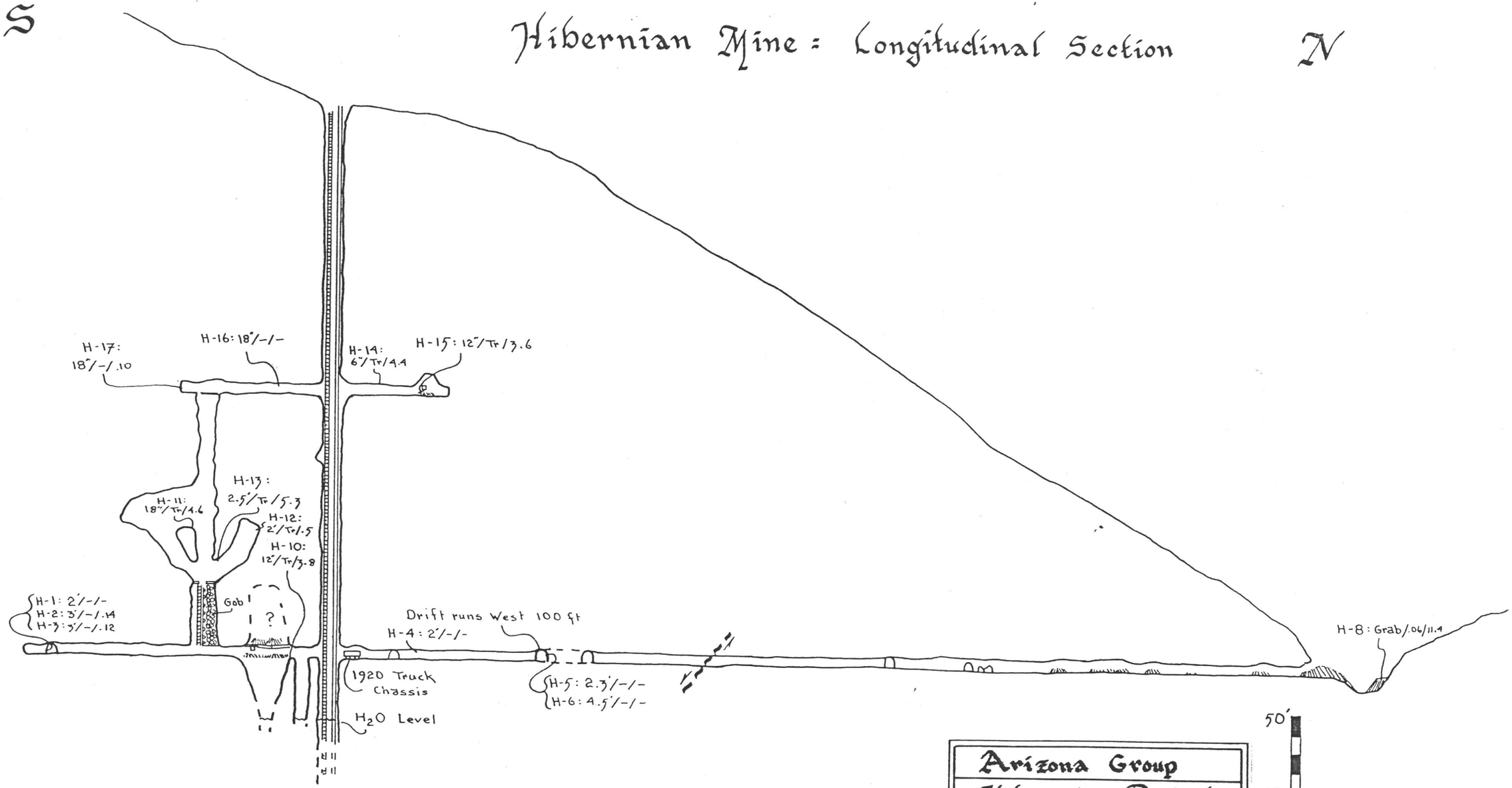
0 10 30 50 100 ft

1" : 30 ft

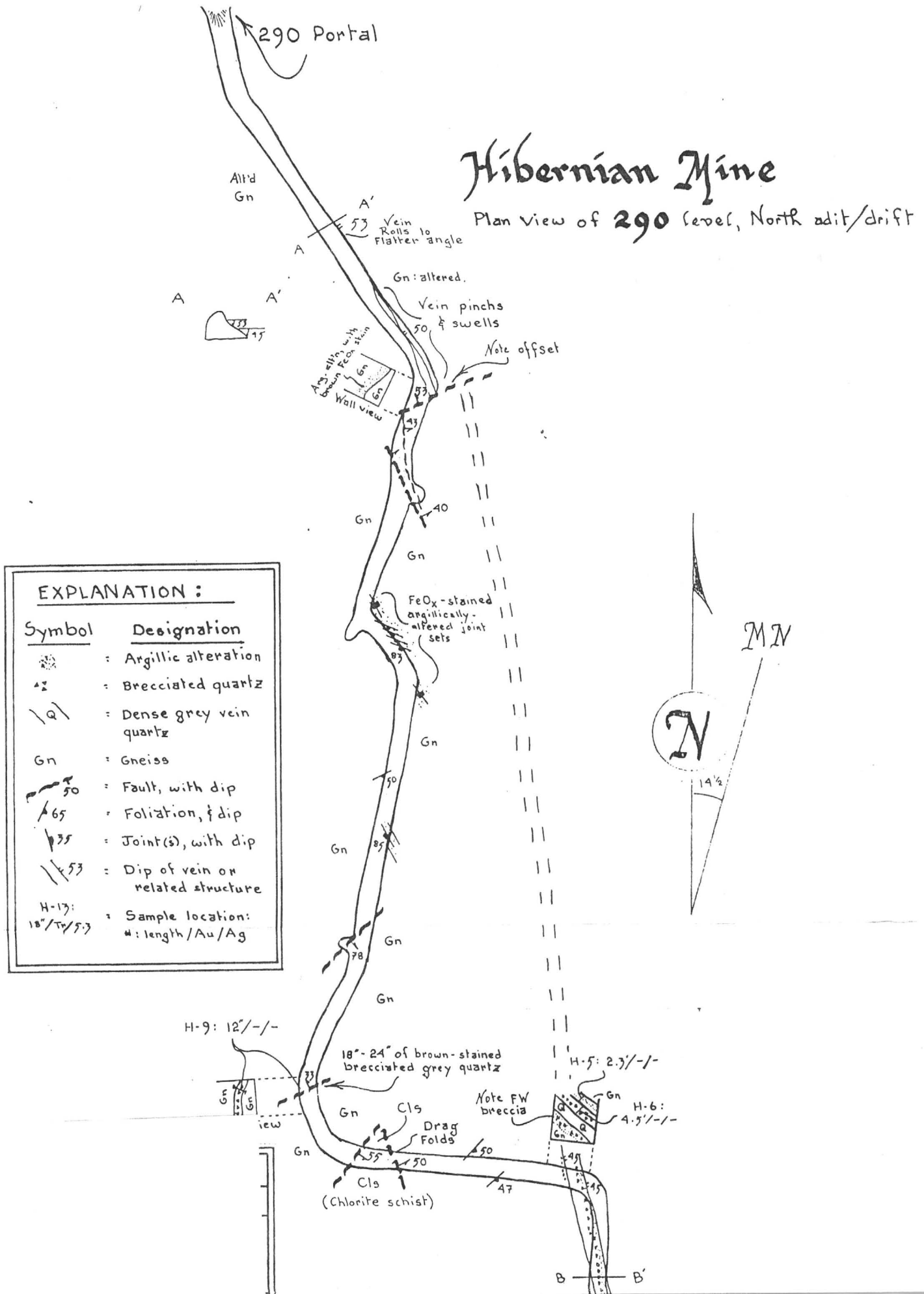
Hibernian Mine: Longitudinal Section

S

N



Arizona Group	
Hibernian Project	
Fig. 4 Hibernian Mine Long. Section	
October, 1986	Rev.
Ed Huskinson, Jr.	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GEOLOGY AND ECONOMIC POTENTIAL OF THE

HIBERNIAN MINE

MAYNARD/CEDAR MINING DISTRICT

MOHAVE COUNTY, ARIZONA

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

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TABLE OF ILLUSTRATIONS

GEOLOGY AND ECONCOMIC POTENTIAL OF THE HIBERNIAN MINE MOHAVE COUNTY, ARIZONA

INTRODUCTION

PURPOSE AND METHOD OF INVESTIGATION

This report was commissioned by Mr. Cory Coe of Vancouver, B. C., who represents the current owner(s) of the Hibernian mining claim, Mohave Co., Arizona. The property was evaluated by mapping and sampling not only the surface expression of the Hibernian vein, but also the underground workings developed therein. A standard Brunton compass, topofil and surveyor's chain were used as control during the five field days spent on the groundwork. The surface maps were tied in to the section/range corner west of the portal and to the location monument erected more than 110 years ago when the claim was surveyed for patent in 1873 (Fig.1).

LOCATION

The property is in south-central Mohave County, approximately 9 miles west of the Cane Springs crossing on Highway 93, 17 miles northwest of Wikieup, Arizona. To reach the property, turn west at milepost 108 3/4, just north of the

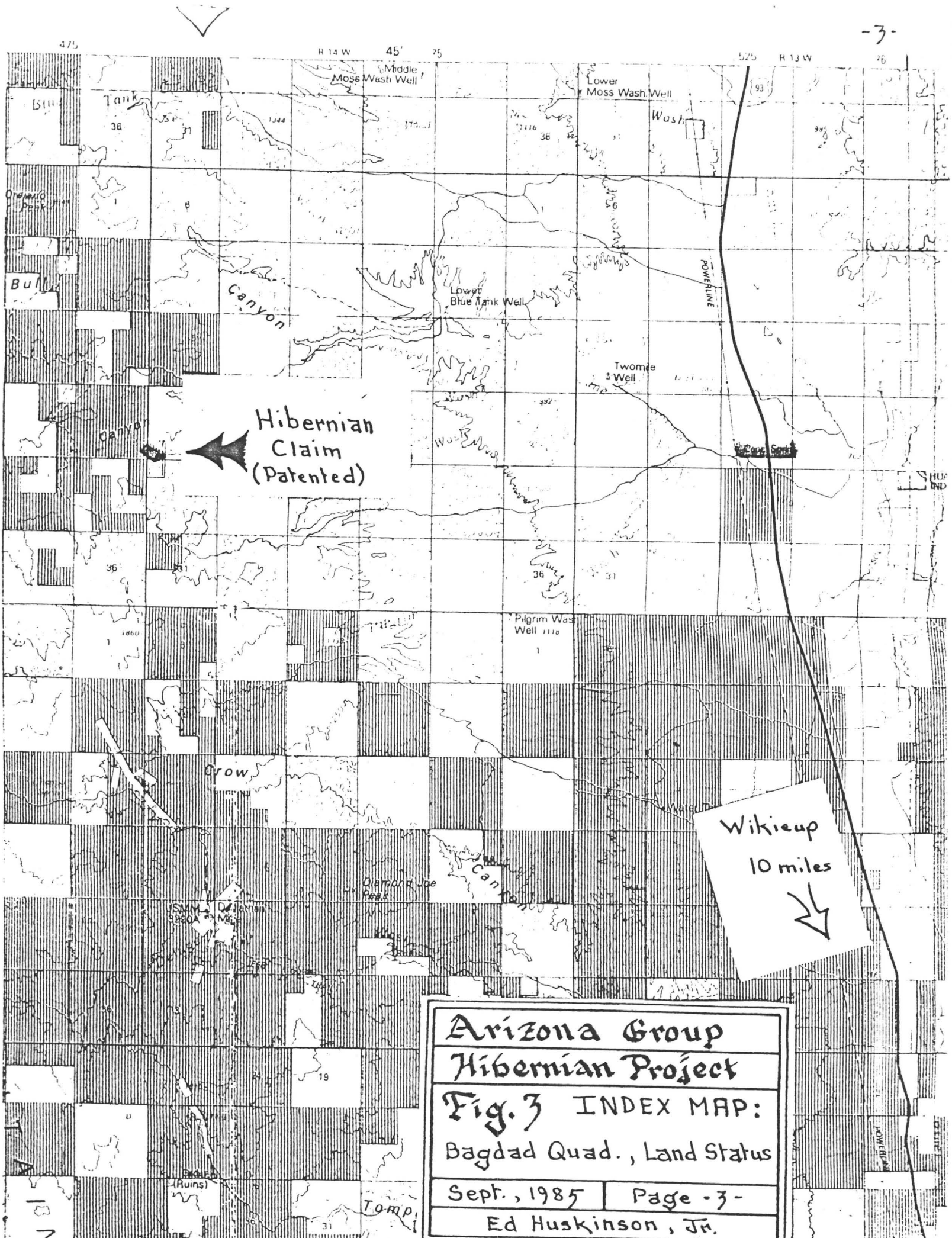
Cane Springs bridge. Turn left at the ranch house (about 1/4 mile), cross the wash to the first gate (at .5 mile from Hwy 93: there is a 230 KV powerline there). Pass through the gate and follow along the meandering ridge toward the Hualapai Mountains. In 6.6 miles there will be another gate beside a small corral. The road is badly deteriorated from this point on. The Silverado Mine lies 3.3 miles westward, and the Hibernian mine is reached by hiking north along the road from the Silverado shaft. The mine lies at the end of the road, about 1 mile north of the Silverado Mine (Fig. 2).

A patented mining claim (Lot 27, map 2, Book 204, Mohave County Assessor's office), the Hibernian claim lies mostly in sections 19 and 30, T18N, R14W. Portions of the property extend onto section 24, T18N, R15W (Fig. 2 & 3). Most of the ground surrounding the patent was open for location and has been staked by numerous parties.

The BLM 1:100 000 scale surface minerals management map of the Bagdad Quadrangle (Fig. 3) shows the access best while the USGS 7.5 minute (1:24 000 scale) Hibernia Peak Quadrangle has good detail of the area. The 1 mile downhill hike in to the property is not bad; however, the climb out can be arduous, particularly if one is packing out samples for assay.

PHYSIOGRAPHY AND CLIMATE

The minesite is at an elevation of 4315', on the south



Arizona Group
Hibernian Project

Fig. 3 INDEX MAP:
Bagdad Quad., Land Status

Sept., 1985 | Page -3-

Ed Huskinson, Jr.

side of Hibernia Canyon, which drains eastward from the imposing ridgecrest of the Hualapai Mountains about 3 miles west. Temperatures vary from below 0 C (32 F) during the short winter to more than 40 C (104 F) in the summer. There is no source of water in the area except for the flooded workings below the 290 level.

The terrain is moderately steep, covered with sparse to thick chapparal, and in the summer is very snakey, particularly in the early morning and late evening. There are no trees on the property. The rough road in to the mine could easily be upgraded for year-round access with a small bulldozer (D-6 or equivalent).

PREVIOUS WORK

Between 2500 and 3000 tons of ore have been mined here. According to Cedar Mineral Company's 1976 report:

> "In the late 1800's one lense of high grade oxide silver ore was mined, packed by burro train to the Colorado River and shipped by water to Swansea, Wales, for reduction; the ore assaying from 100 ounces to several hundred ounces per ton. This shipment of ore is reported to have brought the shippers a return of about $125,000.".

At present (October, 1986), the workings consist of a 45 degree inclined shaft sunk on the vein for about 350 feet. Headings have been run out along the vein from this decline at the 150 and 290 (probably the 300) levels. The north drift on the 290 level was taken all the way out to the draw above Hibernia Canyon (USGS designation). Because of this, ventilation is good throughout the mine. This is fortunate, as the old-timers used a 1920's vintage Chevrolet truck chassis and engine to sink the decline below the 290 level (Fig. 4).

All of the ore removed from the mine has been drawn from stopes developed south of the decline (Fig. 4). A manway/raise driven through the largest stope connects the 290 and 150 levels. The guides, timbers and lagging are all in good shape: however, the portal of the 290 level has caved almost shut.

On the surface, a flattened wooden cabin and the rusted remains of a 20 HP hoist (Western Gas Engine Co., L.A.) and draw-works are the only evidence of the old-timers' endeavors. This machinery sits in a state of dessuetude about 100 ft. northwest of the shaft, directly in line with the collar. A 15 ft. tram tower remains standing about halfway between the shaft and draw-works.

As an interesting note, the Hibernian is also known as "The Bootlegger's Mine". Kingman's first millionaire, Mr. Tony Melles, made his fortune there by operating a still using water from the creek below (Jack Owen, personal communication, Kingman, AZ, 1986).

GEOLOGY

HOST ROCKS

The Hibernian Vein occurs in Precambrian gneiss that has a pronounced foliation direction of N 30-50 E, with a variable steep dip to the southeast. Numerous elongate pods of coarse subpegmatitic granite cut these rocks, as do smaller bodies of amphibolite, diabase, and rhyolite with irregular shape and orientation (Fig. 2). The foliation direction does not appear to have had any affect on the direction of the vein or the ore shoots within it.

HIBERNIAN VEIN

Setting

This prominent structure can be traced for more than a mile, from the hill south of the Silverado Mine northward through the Hibernian Mine and beyond. Indeed, the Silverado Mine was once known as the "Hibernia Extension " (Arizona Department of Mineral Resources: Owners Mine Report, June 1, 1940). The vein trends a few degrees west of north and dips to the east at 45 degrees. Surface exposures of the vein range from practically non-existent to very prominent.

The northerly orientation of the vein holds true until it crosses the arroyo at the 290 level portal, where it makes an abrupt bend westward (Fig. 2).

Mineralogy

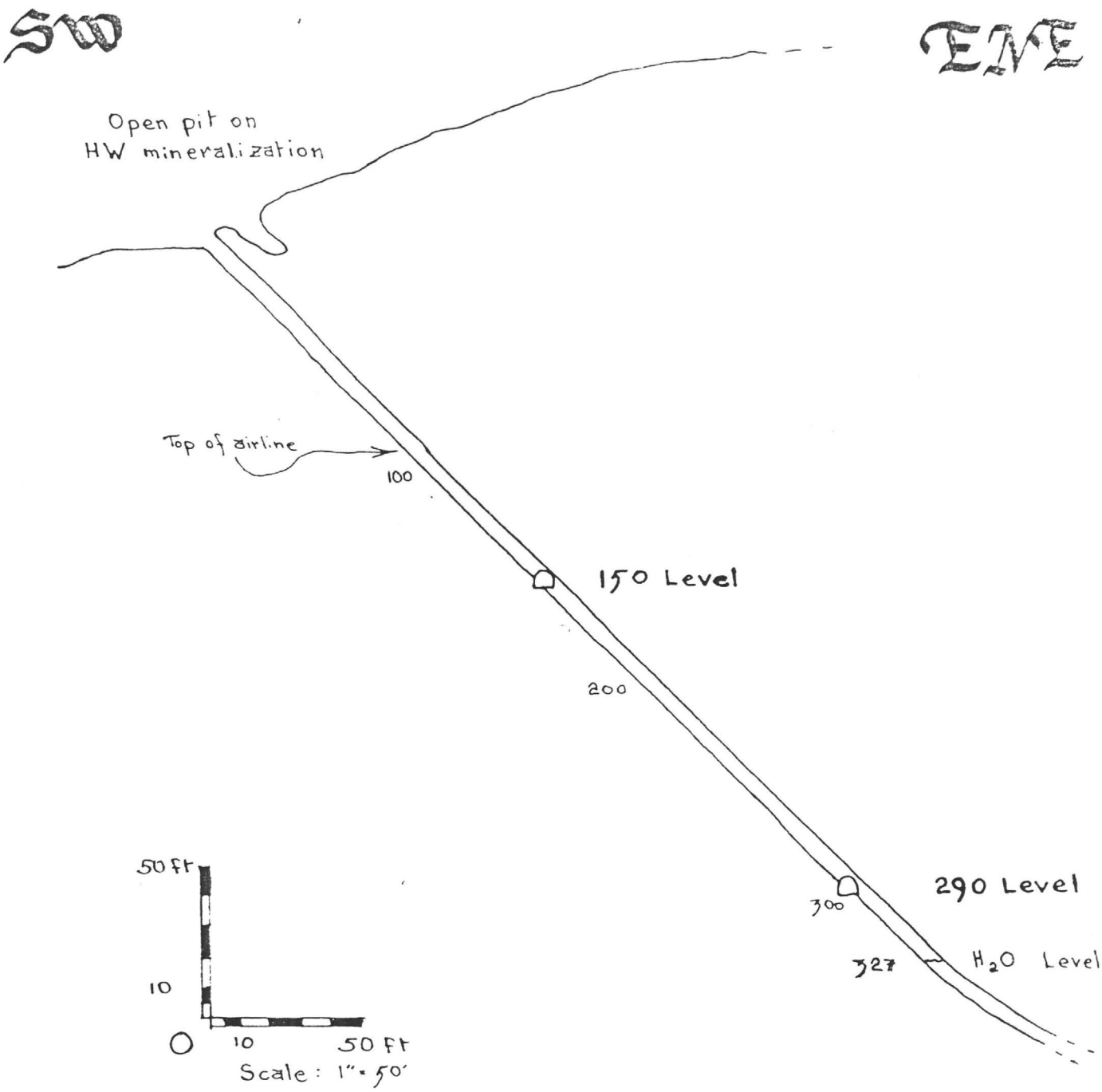
The vein varies from a few inches to more than fifteen feet in width. It consists of massive white to grey quartz which contains variable amounts of barite, cerar-gyrite (silver chloride), galena. linarite (lead/copper sulphate) velvet malachite, pyrite, hematite, and chalco-pyrite, with trace amounts of gold. This mineralization is restricted to the hanging wall: the vein itself is barren. The highest silver values and the most discernible mineralization (i.e., copper carbonates, galena, etc.) are found where the vein and/or host rock contains barite.

The presence of the barium- and copper-sulphate minerals (barite and linarite) suggests that the ore-forming solutions were sulphur-rich. It may be that conditions of pH variance effected the localization of the ore. Without detailed mineralogical study, to determine such possible influence is beyond the scope of this report.

Alteration

A zone of intense argillic alteration extends into the hanging wall country rock for about two feet, and this ground hosts the bulk of the ore. The small "Glory Hole" that can be seen south of the vein at the collar of the decline was developed in hanging wall mineralization (Fig. 5).

The alteration halo is characterized by moderate to



Cross section through Hibernian shaft

Arizona Group
Hibernian Project
Fig. 5 Cross Section through decline
October, 1986
Ed Huskinson, Jr.

abundant earthy-brown iron-oxide stain, and the affected rocks are generally pulverulent or gritty. Manganese oxide dendrites and blebs often fill fractures in the altered zone.

Structure

As can be seen in Fig. 6, the vein has been offset in a few places by faults of diverse orientation. Most of the cross-cutting features in the mine are minor.

There is evidence for post-emplacement movement along the vein. A section through the vein, from footwall to hanging wall, would be as follows:

1) The two- to three-foot thick dense grey quartz vein is overlain by
2) a two- to four-foot thick section of brecciated, poorly cemented grey quartz, mineralized (galena and barite) in some areas, above which is a
3) two- to three-foot thickness of iron-stained, argillically-altered, variably mineralized, Pre-cambrian gneiss and/or schist.

This last unit is the principal host for the silver mineralization at the mine. In a few places, a 2 foot breccia has been developed in the footwall rocks below the vein (Fig. 6, wall view #1). No mineralization was found in the footwall breccias during the field examination.

Ore Control

The Hibernian decline was sunk where the vein displays a slight convex change in strike from almost due north to just east of north (Fig. 2). The steep topography results in an apparent strike direction that is more easterly than the true strike.

At any rate, this change in direction produced an area of low pressure (or possibly even a void zone) which was favorable to mineralization and the ore was concentrated there. A similar feature was noted just north of the Silverado shaft by Vanderwall (1984, p.2).

That the Hibernian vein itself is barren is noteworthy. It consists of dense grey quartz, and the ore is concentrated in the hanging wall. The ore-forming solutions were obviously late-stage, passing along the barren quartz/hanging wall interface. Therefore, the vein itself acted as an aquaclude: ore solutions traveled along it, producing the mineralization found in the overlying hanging wall.

It is also probable that the dense grey quartz acted as a buttress. As the hanging wall moved downward along this block, it was shattered and altered, providing the conditions of permeability necessary for ore emplacement. In places the vein footwall is as smooth as poured concrete.

The best guides to ore in the area then, are a change in strike of the vein, intense hanging wall alteration, and the

presence (in decreasing order) of barite, galena, and copper carbonates in the vein.

HIBERNIAN MINE

WORKINGS

The workings consist of an inclined shaft that is at least 350 feet deep, and probably more; from the shaft, headings have been run out along the vein at the 150 and 290 levels. There may be more workings beneath the water table, which stands at 327 feet below the collar at present (1986).

All of the stoping in the mine has taken place between the 290 and 150 levels south of the decline. There are neither stopes nor raises above the 150 level, and there are none on the 290 level north of the decline (Fig. 4).

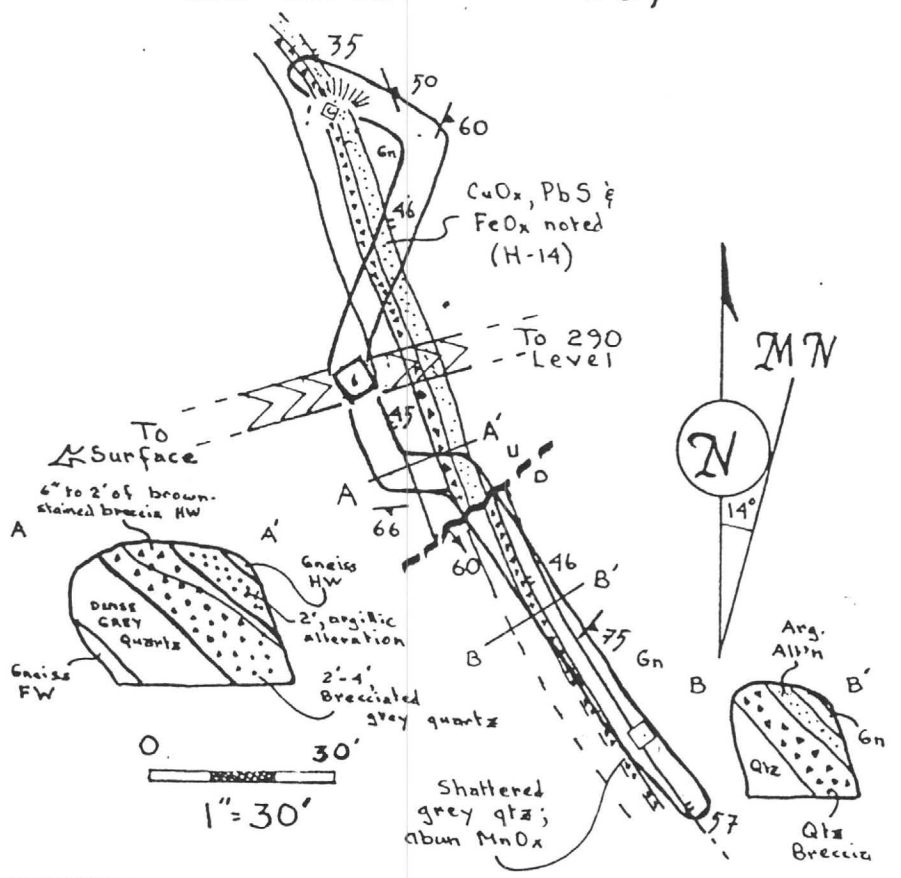
The mine is open throughout; however, the back has come down for about the first two hundred feet in from the 290 portal,and access from this direction entails some stooping and crawling over the high spots.

150 LEVEL

As can be seen in Figures 5 and 7, the decline was sunk in the wall rocks at the footwall of the Hibernian vein. The massive grey quartz makes a strong hanging wall for the workings throughout the mine.

Hibernian Mine

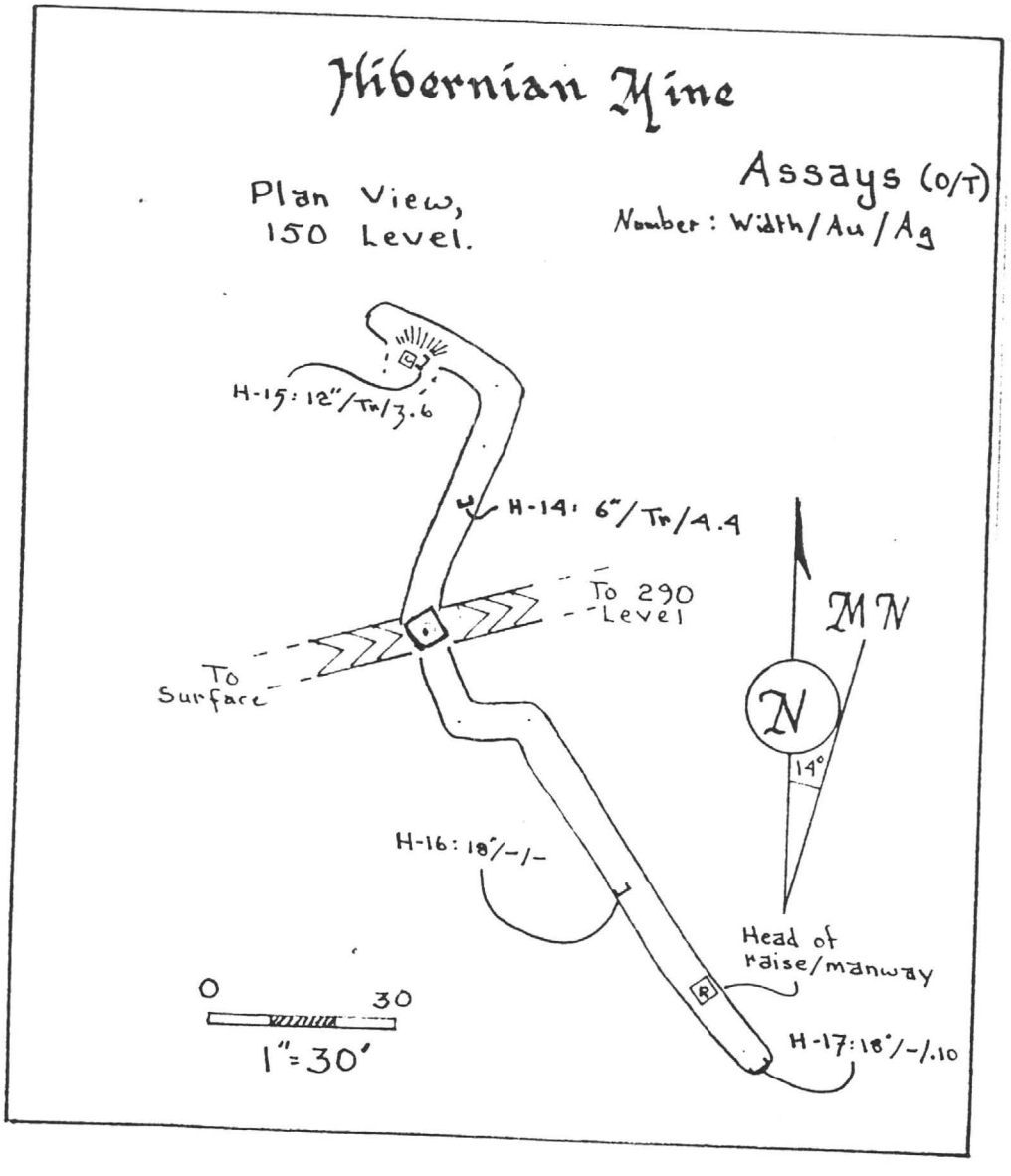
Plan View,
150 Level. GEOLOGY



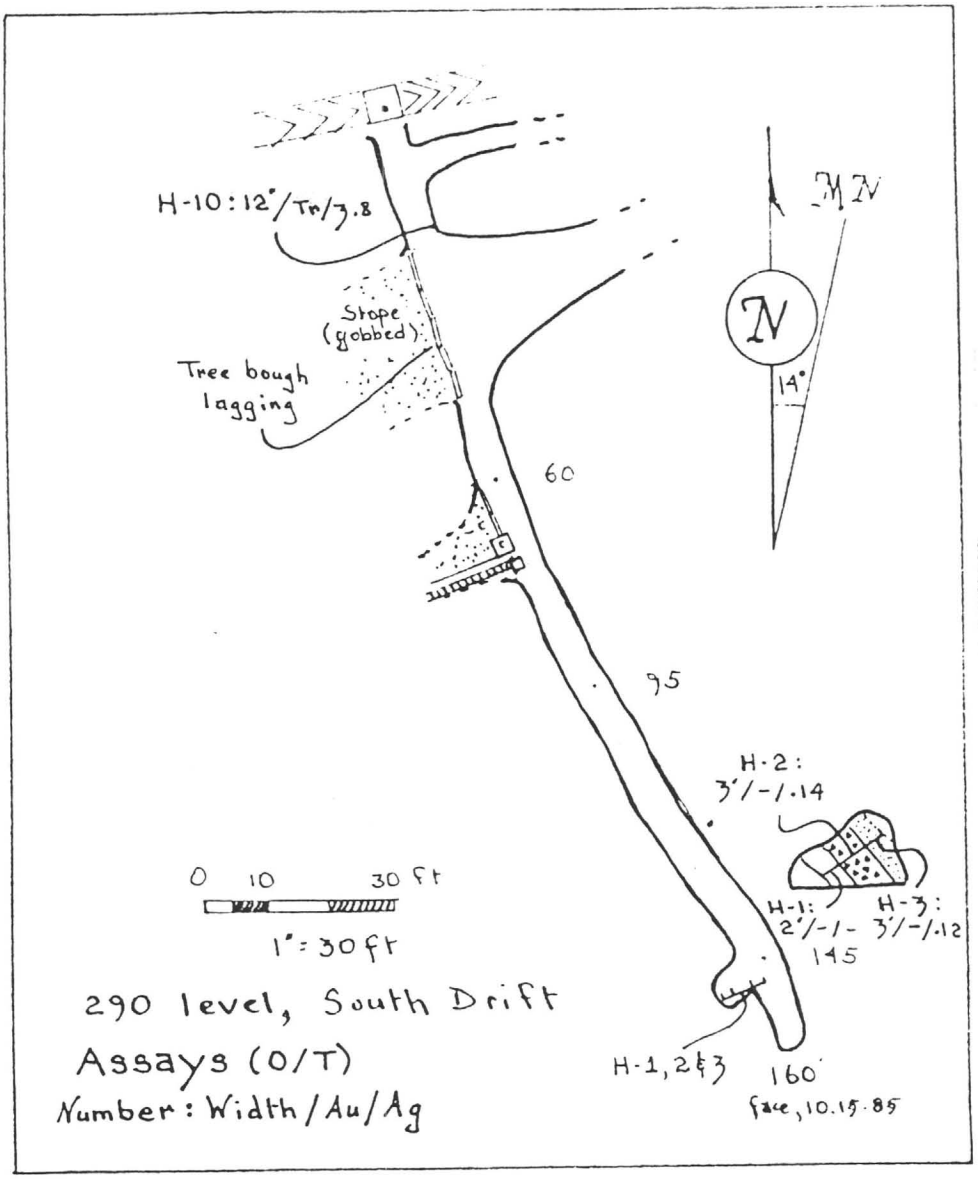
EXPLANATION :

Symbol	Designation
⁘	: Argillic alteration
▲▼	: Brecciated quartz
\Q\	: Dense grey vein quartz
Gn	: Gneiss
50	: Fault, with dip
65	: Foliation, & dip
35	: Joint(s), with dip
53	: Dip of vein or related structure
H-13: 18"/Tr/5.3	: Sample location: #: length/Au/Ag

Arizona Group
Hibernian Project
Fig. 7 150 Level GEOLOGY
Nov., 1986
Ed Huskinson, Jr.



Arizona Group	
Hibernian Project	
Fig. 8 150 Level ASSAYS	
Oct., 1986	Rev.:
Ed Huskinson, Jr.	



Arizona Group	
Hibernian Project	
Fig. 10 290 Level ASSAYS	
Oct. 1986	
Ed Huskinson, Jr.	

the result of their attempt to drive a drainage/ventilation/ exploration heading south along the footwall of the vein toward the shaft from the arroyo. After losing the vein where it is cut by a low-angle fault about 140 feet in from the portal (Fig. 6), they may have drifted along in barren rock toward the shaft for 250 feet before they finally realized their mistake and crosscut eastward to regain the vein.

The few assays cut in this drift are all dusters, carrying no values in gold or silver.

HIBERNIAN MINE DUMP

The main dump was not sampled, only the pile of obvious high-grade left near the portal (H-7 [Fig. 2] ran 0.02 oz/ton Au and 14.44 oz/ton Ag). There are about 2500 tons of material contained in this dump, most of which is probably footwall waste.

CONCLUSION

It may be possible to develop a small mine at the Hibernian claim, provided ore bodies can be located using the criteria listed above (i.e., convex bends in the vein and so forth). It is not inconceivable that pods of ore ranging up to 5,000 tons or more could be found. The ore probably will grade betwween 14 and 25 oz/ton Ag, accompanied by variable amounts of gold.

On the claim itself, the obvious target is near the mine, at depth below the 290 level, south of the decline. Additional targets in the mine vicinity should come to light through the exploration program.

But the best potential probably lies to the northwest, along strike of the vein. The highest assay on the property (H-18 : 206 oz/ton Ag and .28 oz/ton Au) was collected from the dump of a small prospect pit on the vein about 900 feet west of the 290 portal (Fig. 2). The true potential of the Hibernian vein may be realized from this area.

Before any exploration is carried out at the Hibernian, a thorough land take-off should be completed to establish title and determine the exact status of the surrounding ground that might be open for mineral location.

RECOMMENDATIONS

LAND POSITION

In compiling the geologic map, claim posts for the following claims were encountered:

1) Ida Louise claims 1 through 15, staked in January of 1981. It appears that a good portion of these claims is invalid, in that they have been staked in section 30. T18N, R14W. This is a State section,

most of which is held under State Prospecting Permits 08-37516 and 08-37349, issued to Corval Development Corp. of Vancouver, B.C. .

2) Blue Silver claims (status unknown)

3) Big AB claims, filed in September of 1981 (status also unknown)

4) Homestead Mining claims (again, status unknown).

5) Various unmarked posts, some as white 2x2s of fairly recent origin and others as red-topped 4x4s that are probably 6 or 8 years old, indicate that there must be other claims filed in the area.

The status of the open (?) land in section 19, T18N, R14W must be established by courthouse title search. If it is indeed open (and this ground probably is, as no evidence of recent assessment activity was noted), then the SW 1/4 of section 19 should be staked, along with the SE 1/4 of section 24 T18N, R15W. Thus, the WNW extension of the Hibernian Vein will be brought under control and a proper exploration program can ensue without worry of nuisance interference.

EXPLORATION PROGRAM

To find the ore will entail developing a program of geological, geochemical, and perhaps geophysical exploration to delineate targets. A second phase would consist of testing these targets with a diamond drill or reverse circulation rotary (RCR) rig.

Target Identification

A methodical sampling program to assess the extended strike length of the Hibernian Vein is called for. Channel samples at right angles across the vein must be cut and assayed. Concurrently, a detailed geologic map along strike must be made, and a series of cross-sections through the vein drawn up where the best assays or geologic criteria for ore are encountered.

Because the ore zones are sulphide-rich, an E-M survey might prove useful, perhaps if coupled with simultaneous VLF. To test the vein from just south of the Silverado Mine to a point past the Hibernian Mine should take about 3 man-days at most.

Target Testing (Drill Program)

The target near the flooded bottom of the Hibernian decline is best tested by drilling a hole or series of holes into the vein from the hanging wall block. To do so would require building about 900 feet of access road to a drill pad/station east of the collar of the shaft (Fig. 2). From there, a "fan" of holes could be drilled to test the vein at various depths and/or distances from the shaft.

The holes would be from 400 feet to 500 feet deep, at various angles. It might be possible to drill shorter holes from a station closer to the shaft, although building such a pad would be more difficult (and hence, more costly) because of the rugged topography.

Ideally, the drill program would consist of two phases:

1) A preliminary phase of diamond drilling to test the stratigraphy and establish alteration halos. etc. This would be followed by

2) A secondary phase of cheaper rotary drilling to test the vein in as many places as cheaply as possible.

COST ESTIMATES

Existing access

The present road in to the mine from the Silverado is in terrible condition: only motorcycles or all-terrain vehicles can be driven to the end of the road overlooking the mine. To bring it up to grade would entail approximately two to three ten hour days (depending on the operator) of cat work.

25 hrs @ $75.00 per hour..... $1875.00

Drill pad and new access

20 hrs @ $75.00 per hour..... $1,500.00

SUBTOTAL..... $3,375.00

Mine Survey

Before the mine area is drilled out, an accurate survey of the surface and underground workings must be obtained. This survey should be run in through the collar and out the 290

portal, then tied in to the section/range corner to the west.

20 hrs @ $40.00 ..... $ 800.00

Target Identification (Geology and Geochemistry)

Geologic mapping, sample collection, etc.

20 days @ $250.00	$5,000.00
Mileage and other expenses	$ 200.00
Assays: 150 @ $12.00	$1,800.00
Sample bags: 150 @ .17	$ 25.00
Assess data: 2 days @ $250.00	$ 500.00
SUBTOTAL.....	$7,525.50

Target Identification (Geophysics)

Field work: 3 days @ $250.00	$ 750.00
Data assessment: 5 days @ $250.00	$1,250.00
SUBTOTAL	$2,000.00

Target Testing (Diamond Drill Program)

This preliminary phase should consist of two or three holes drilled to familiarize the project geologist with the host rock stratigraphy, hanging wall alteration and mineralization, vein thickness, footwall alteration, etc.

Drilling: 1500 ft. @ $20.00	$30,000.00
Supervision: 25 days @ $250.00	$ 6,250.00
Assays: 25 @ $12.00	$ 300.00
Contingencies (Shipping, etc.)	$ 3,600.00
SUBTOTAL	$40,150.00

Target Testing (RCR Program)

If the results from the diamond drill program are encouraging, then the ore bodies can be blocked out and reserves estimated by drilling a multitude of holes with a highly mobile (probably track-mounted) reverse circulation rotary rig. These machines are fast, accurate, readily available, and are much cheaper than core rigs.

Drilling: 3,000 ft. @ $8.00	$24,000.00
Supervision: 15 days @ $300.00	$ 4,500.00
Assays: 125 @ $12.00	$ 1,500.00
Sample bags: 150 @ .17	$ 25.50
Shipping:	$ 150.00
Contingencies	$ 3,000.00
SUBTOTAL	$33.175.50

TOTAL, ALL PROGRAMS $86,901.00

BIBLIOGRAPHY AND REFERENCES

Jacobsen, R. C., 1926, untitled correspondence regarding the Hibernian Vein and Silverado Mine (w/ attachments).

Jones, Melvin H., 1978, "Preliminary Geological Evaluation, Silverado Mine, Cedar Mining District, Mohave County, Hualapai Mountains, about 50 miles South of Kingman, Arizona" (sic): 3 pages.

Jones, S.S., 1937, untitled evaluation report on the property: 2 pages, with attachments.

Smith, T. Mac, 1940, Owner's Mine Report (on the Silverado Mine) in Department of Mineral Resources File MS-41.

Ward, C. R., 1976,"Parcel #186" (Evaluation report written for the Cedar Mineral Company, Phoenix, AZ): 22 pages.

Vanderwall, W., 1984, Geological Investigation Silverado-Hibernia Vein System Mohave County Arizona (written for D. K. Martin dba Conar Resources): 10 pages, with 24"x36" toppgraphic emlargement.

STATEMENT OF QUALIFICATIONS

I, Edward J. Huskinson, Jr., residing in the City of Kingman, Arizona, hereby certify that:

1) I am a consulting geologist with offices at 845 Ridgecrest, Kingman, Arizona 86401, telephone: (602) 757-8228 ;

2) I have a B.A. degree in geology from West Texas State University, Canyon, Texas, 1971;

3) I have a Master's Degree in geology from the University of Texas at El Paso, El Paso, Texas, 1975;

4) I have been practicing my profession as a geologist since 1968, having been employed by mining companies and others as a consulting geologist since that time;

5) I have no interest, direct or indirect, in the properties or securities of the Arizona Group; and

6) The attached report on the Hibernian Mine is based on my personal examination of the property in September of 1985, with subsequent evaluation carried out in October of 1986.

I hereby consent to the use of this report for filing with the appropriate agencies or for inclusion in such documents as the Arizona Group may deem necessary.

Ed Huskinson, Jr.

Ed Huskinson, Jr

[illegible] ARIZONA SILVER W T D 10-31-85

LAB #	SAMPLE # & DESCRIPTION	INQ	ADDED	GROSS	NET	AU	AG			
B	Blank	Ag	2.03	2.01		—	-0.02			
1	H-1	—		0.00		0.00	0.00			
2	H-2			0.07		0.00	0.14			
3	H-3			0.06		0.00	0.12			
4	H-4			0.00		0.00	0.00			
5	H 5			0.00		0.00	0.00			
6	H-6			0.00		0.00	0.00			
7*	H 7			7.23		0.02	14.44			
8*	H-8			5.71		0.06	11.36			
9	H 9			0.00		0.00	0.00			
10	H 10			1.92		T	3.84			
11*	H 11			2.29		T	4.58			

ARIZONA SILVER

LAB #	SAMPLE # & DESCRIPTION	INQ	ADDED	GROSS	NET	AU	AG			
12	H 12			0.27		0.00	0.54			
13	H-13			2.63		T	5.26			
14	H 14			2.20		T	4.40			
15	H 15			1.83		T	3.66			
16	H-16			0.00		0.00	0.00			
17	H 17			0.05	Au	0.00	0.10			
18☆	H 18			103.31	[illegible]	0.28+	206.33	☆		
19	TAILS + CN = TEST HEADS	—		3.10		0.00	6.20			
B	BLANK	Ag	2.03	2.00		—	-0.03			

#7, 8, 11 → DARK LEAD BUTTON (Before cupellation either Cu or Mn)
#18 → Brn slag (Cu) + Beautiful sponge gold -27-

☆ H-18 Bead had a frosted appearance. Poss. Pt gp.

SILAS C. BROWN & ASSOCIATES
GEOLOGICAL CONSULTANTS
Phone 602-966-7874
2401 W. Southern Ave. B-78
Tempe, Arizona 85282

D. K. Martin
4728 N. 21st Avenue
Phoenix, Ariz. 85015

6/19/84

STATEMENT

ASSIGNMENT:
Deliniate major vein systems and fault zones of the Silverado and Hybernia Mines. Secs 30, T18N, R14W.

COMPLETION:
Obtain and prepare base maps and data
Conduct field geological investigation
Locate, sample and map major vein system
Assay samples for lead and silver
Interpret field and research data
Suggest drilling locations
Install lock on gate & submit extra keys
prepare maps and report, submit same

TOTAL:	$3780.60
Advance Payment :	-2000.00
BALANCE:	$1780.60

ADDITIONAL ASSIGNMENT:
Obtain two Continuance D & R Bonds
Prepare two Prospecting Permit Affidavits

TOTAL:	175.00
BALANCE DUE :	$1955.60

Paid in full 7-6-84

Thank you for allowing us to be of service to you, it has been a pleasure.

Silas C. Brown
Silas C. Brown

1984

C. Coe – CONAR PROJECT

Recd - 2000 from C. Coe - 5-24-84 - Dgnit 5-25-84 — 2000 00

			ck #	1 EXPENSE	2 CREDITS	3
1	5-21	D.K.M. Trip to Kingman 400 mi X .40 =	1316	160 -	160 -	
2	5-23	Phx Blue Print - Base Maps - Mylar Prints		41 34		
3	5-24	" " " " " "		41 34		
4	5-24	Wm. Vanderwall - ½ of $1600 - Advance	1315	800 -	800 -	
5	5-25	BLM - Maps.		18 -		
6	~~5-25~~	~~DKM - Trip for MAPS - Trip to Phx BLUE~~		~~25 -~~		
7	~~5-22/25~~	~~SCM. - Working on Base Maps~~		~~25~~		
8	5-24	Phx BLUE PRINT		41 98		
9		" " " CREDIT			10 18	
10						
11	6 5	wm VANDERWALL		804 89	804 99	1987 55
12	~~6 5~~	~~Travel Exp (Vanderwall) (DKM)~~		~~36 00~~		
13	6-~~20~~	Phx Blue Print Bond Activities		300		1990 55
14						
15						
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17						
18						
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20						
21						
22						
23						
24						
25		D.K.M. Time				
26						
27						
28						
29						
30						
31						
32						
33		S.C.M. Time				
34						
35						
36						
37						
38						
39						
40						

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Silas C. Brown

Phone 602-966-7874

SILAS C. BROWN & ASSOCIATES
GEOLOGICAL CONSULTANTS

2401 W. Southern Ave. B-78
Tempe, Arizona 85282

GEOLOGICAL INVESTIGATION

SILVERADO - HIBERNIA VEIN SYSTEM
Mohave County, Arizona

for

D. K. Martin
dba
Conar Resources

16 June 1983

GEOLOGICAL INVESTIGATION

SILVERADO - HIBERNIA VEIN SYSTEM
Mohave County, Arizona

LOCATION:

The Silverado - Hibernia prospect consists of one patented mining claim, the Hibernia, located primarily in the southwest corner of Section 19, Twp. 18 N., Rge. 14 W., and two Arizona State Prospecting Permits (86502 and 86533) emcompassing the Silverado Mine located in the southwest corner of Section 30, Twp. 18 N., Rge 14 W., G&SRB&M, Maynard Mining District, Mohave County Arizona.

The two mines are situated approximately one mile apart in fairly rugged terrain on the eastern slope of the Wallapai Mountains. The property is accessible from U.S. Highway 93 at Cane Springs via 10 miles of an unimproved, unmaintained road.

SCOPE OF REPORT:

Facts and opinions contained in this report are based on data gathered during a detailed field investigation of the vein system described below. Land status, regional geology, history and production from the property are beyond the scope of this report.

GEOLOGY:

The Silverado - Hibernia Vein outcorps intermittantly for the full one mile distance between the two mines. In areas of steep relief and heavy alluvial cover, the vein location can be inferred by trailing vein fragments up-slope to the point of origin. By utilizing the outcrop location by direct examination and the inferred locations from talus termination, the vein appears to be a continuous structure from the Silverado Mine to the Hibernia Mine. (See Map #1)

A true fissure vein exists where quartz occupies the open spaces along a fracture in the granite country rock. The Silverado - Hibernia Vein strikes between North 12° West at the Silverado Mine, to North 5° East in the vacinity of the Hibernia Mine. This indicates a slight curve in the vein trend and suggests the possibility of radial fracture. Dips vary from 64° West to 85° West at the Silverado Mine, to 61° East to 69° East at the Hibernia Mine. Rollover of vein dip occurs 800 to 900 feet north of the Silverado shaft, as as would be expected, the dip increases as the point of rollover is approached. Only true dips at clear contacts are plotted on Map #1. Questionable measurements were omitted.

Coincidentally, in the vacinity of the dip rollover and the main flexure in the vein, is the location of a significant quartz spur off the main vein. This assemblage of structural and physical anomalies warrants further examination.

Geology (continued)

Vein widths vary from 23 feet at the Silverado open cut to 15 feet at the Hibernia shaft. Between the two, widths generally pinch and swell, but average nearly 11 feet where measurable on the outcrop. Widths may possibly narrow where the vein does not outcrop and its location is inferred by float.

Vein mineralogy, as evidenced at the Silverado and Hibernia Mines, consist primarily of quartz with galena, chalcopyrite and pyrite occuring as veinlets and blebs within the quartz. Calcite, siderite and barite(?) were observed at the Hibernia and copper carbonates were observed at both mines. No minerals, other than quartz and minor iron oxides were noted in the outcrop or float in the remainder of the vein. The vein quartz is primarily white to blue-grey, very fine grained with occasional drusy cavities. An exception to note is in the vacinity of the vein spur where float and outcrop of the main vein contains abundant iron oxide staining and limonite filled cavities. The spur itself is atypical in texture and mineralogy being more characteristic of a pegmatite with large, euhedral, pink feldspar crystals in white amorphous quartz.

CONCLUSIONS AND RECOMMENDATIONS:

On the basis of field observations, ore deposits appear to be limited to pods, although, all assays show some silver and lead mineralization. Favorable loci for ore deposition in fissure veins appears to be at flexures, vein junctions and vein rollover.

While the old workings at the Silverado and Hibernia Mines appear to be pods, the existence of vein flexure, rollover and the quartz spur, plus the favorable assay results, justifies a drilling program.

Three drill holes are proposed as shown on Drawing #2, which should adequately test the anomalous zone of the quartz spur and the major vein.

Suggested Drilling Program

DH	Depth	Angle	Bearing
#1	200'	37°	N 67° W
#2	180'	41.5°	N 90° W
#3	200'	39.5°	S 66° W

Alternative Drilling Program

#1	110'	70°	N 67° W
#2	110'	70°	N 90° W
#3	100'	68°	S 66° W

Conclusions (continued)

The alternative program may be preferable. The total depths are considerably less and the angles more towards vertical. No extensive road building would be necessary for this plan. Any final program within the limits of the above suggestions would be acceptable. If stream gravels present a problem, this can be solved by either dozing the gravels from the drilling site to bedrock or moving adjacent to the wash, still testing the anomalous zone.

If one or two of the drill holes indicate acceptable ore, it would be advisable to test the vein at a depth of plus or minus 200 feet. This will determine the extent of the ore body and the water table. Additional test holes at or near the sample locations #4 and #6, which are near the Silverado Mine, will assist in the evaluation.

Respectfully submitted,

William Vanderall

William Vanderall
Geologist
Az. Reg. No. GIT34

16 June 1984
Inclusions:
Map #1
Drawing #2
Composit Topographical Map
Sample Descriptions
Assay Report

SAMPLE DESCRIPTIONS

Quartz and gouge zone at Silverado Open Cut. West to East across vein. Total 23':

1) Fractured quartz with minor FeOx, $CuCO_3$ stain, small chalcopyrite and pyrite blebs. 5'channel
   Assay Results: Ag 0.986 oz/tn Pb 106 ppm

2) Mostly gouge, red-brown, friable clay. 5' channel with granite inclusions.
   Assay Results: Ag 0.557 oz/tn Pb 98 ppm

3) Quartz - same as #1. 5' channel
   Assay Results: Ag 0.493 oz/tn Pb 26 ppm

4) Quartz - same as #1. 5' channel
   Assay Results: Ag 10.150 oz/tn Pb 167 ppm

5) Quartz with very fine grain clay gouge. 3' channel
   Assay Results: Ag 0.284 oz/tn Pb 21 ppm

Area North of Silverado Mine:

6) Fracture quartz with 50% clay gouge. 19' channel
   Assay Results: Ag 5.626 oz/tn Pb 50 ppm

Area Near Vein Rollover:

7) Quartz, white to blue-grey, minor vugs with limonite. 13' channel
   Assay Results: Ag 7.250 oz/tn Pb 3210 ppm

Approximate mid point between Silverado & Hibernia:

8) Quartz, white to blue-grey, drusy vugs. 11' channel
   Assay Results: Ag 0.345 oz/tn Pb 148 ppm

Fractured quartz, heavy FeOx stain at Hibernia Shaft. West to East across vein. Total 15':

9) Quartz, FeOx stain. 5' channel.
   Assay Results: Ag 0.383 oz/tn Pb 229 ppm

10) Quartz, FeOx stain. 5' channel.
   Assay Results: Ag 0.142 oz/tn Pb 186 ppm

11) Quartz, FeOx stain. 5' channel.
   Assay Results: Ag 0.177 oz/tn Pb 133 ppm

Area Near Hibernia Stockpile:

12) Grab sample of quartz with Ca(?), chalcopyrite, pyrite blebe and veinlets all stained with $CuCO_3$. Some Copper Carbonite and barite(?).
   Assay Results: Ag 8.990 oz/tn Pb 23000 ppm

NORTH AMERICAN ASSAY COMPANY

1022 West 23rd Street
Tempe, Arizona 85282
(602) 894-0919

Job Number MA-1449

Page 1 Of 1

Date June 13, 1984

ANALYTICAL REPORT

Client I.D.	Lab #	Geochemical Analysis Ag (ppm)	Pb (ppm)
1	1	34.0	106
2	2	19.2	98
3	3	17.0	26
4	4	350.0	167
5	5	9.8	21
6	6	194.0	50
7	7	250.0	3210
8	8	11.9	148
9	9	13.2	229
10	10	4.9	186
11	11	6.1	133
12	12	310.0	23000

Client Name: D.K. Martin & Associates

Address: 4728 N. 21st Avenue

Phoenix, AZ 85015

Telephone: 246-9573

Samples Submitted By: D.K. Martin

Date Received: June 7, 1984

REGISTERED ASSAYER CERTIFICATE NO. 15104 JAMES W. ANDERSON Signed 6/13/84 ARIZONA U.S.A.

CONAR
c/o CORWIN COE

5/21 INITIAL ORIENTATION TRIP

Duplication & Photo Work	81.68 ✓	✓
3 days field Work	1500.00 ✓	✓
4 days office Work	1200.00 ✓	✓
BLM MAPS	18.00 ✓	✓
TRAVEL TIME-City	50.00 ✓	✓
Mileage - City 42	14.70 ✓	✓
Mileage - field 28 14 14 W - C - M	361.00 ✓	✓
King - 400 WIKIEUP 140 CAMESPGS 4 = 112 Phx 140 PHOP 12 = 804		
3 days MOTEL	132.30 ✓	✓
4 days Meals	120.00 ✓	✓
Sample Prep	30.00 ✓	✓
Assays - 12 @ 15	180.00 ✓ 3387.68	✓
BLUE PRINTS	8.00 68	✓
SECRETARY	35.00 3430	✓
overhead LOCK - 12.15 ✓	(6) overhead 343.07 4073.75 12.15	✓

Assignment -

delineate Vein Sys between Silverado & Hibernia Mines
obtain BASE MAPS, Enlarge Topo Maps - conduct field geological Investigation, Sample System - Suggest drill Locations - Prepare MAPS & REPORT

TOTAL mileage field - 804 @ .45 361.00
CITY 42 @ .35 14.70

8

SILAS C. BROWN & ASSOCIATES
GEOLOGICAL CONSULTANTS

Phone 602-966-7874

2401 W. Southern Ave. B-78
Tempe, Arizona 85282

D. K. Martin
4728 N. 21st Avenue
Phoenix, Ariz. 85015

6/19/84

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BALANCE:	$1780.60

ADDITIONAL ASSIGNMENT:

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Prepare two Prospecting Permit Affidavits

TOTAL:	175.00
BALANCE DUE :	$1955.60

Thank you for allowing us to be of service to you, it has been a pleasure.

Silas C. Brown

Wm. Vanderwall
P.O. Box 9006 KS
Bullhead City
Arizona 86430

D.K. Martin & Associates
4728 North 21st Avenue
Phoenix, Arizona 85015

INVOICE

For Professional Services:

Silverado-Hibernia project, contract price.....$1500.00

Misc. travel and auto expenses.....$ 104.89

TOTAL DUE $1604.89

Paid in full

Thank you for this opportunity to be of service.

Sincerely,

Wm. Vanderwall

STATEMENT

PHOENIX BLUE PRINT CO.

4141 N. 7th STREET
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PHONE 602-264-6871

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PHONE 602-264-6871

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CUSTOMER

5/31/84

DATE

1547000 CUSTOMER

5/31/84 DATE

RETURN THIS PORTION WITH YOUR PAYMENT

DATE	TRANSACTION		AMOUNT
	PREV BAL		15.90
5/03/84	PAYMENT		15.90-
5/23/84	INVOICE	42076	41.34
5/24/84	INVOICE	42184	41.98
5/25/84	INVOICE	42334	18.02
5/30/84	CR MEMO	42525	10.18-

INVOICE	AMOUNT
PBL	15.90
	15.90-
42076	41.34
42184	41.98
42334	18.02
42525	10.18-

.00	.00		
90 & OVER	OVER 60		
.00	91.16	PLEASE PAY ▶	91.16
OVER 30	CURRENT		

TOTAL 91.16

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CONAR Project

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CODE	QUANTITY ORIG.	QUANTITY NO. WANTED	QUANTITY ORD.	DESCRIPTION	SQ/FT EA.	TOTAL SQ. FT.	PRICE	EA. UNIT	AMOUNT
221	1	3	3	BLACKLINE MINIMUM					3.00
				WAITING					

TERMS: NET 30 DAYS

ORIGINAL INVOICE

PLEASE PAY FROM THIS INVOICE

SUB TOTAL	3.00
TAX	.18
FREIGHT	
TOTAL	3.18

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DATE 6/12/84

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P.O. NO.	JOB	ORDERED BY
		DKM

CODE	QUANTITY ORIG.	QUANTITY NO. WANTED	QUANTITY ORD.	DESCRIPTION	SQ/FT EA.	TOTAL SQ. FT.	PRICE	EA. UNIT	AMOUNT
220	4	1	4			25.00	.100		2.50
				WITH INVOICE #43610					

TERMS: NET 30 DAYS

ORIGINAL INVOICE

PLEASE PAY FROM THIS INVOICE

SUB TOTAL	2.50
TAX	.15
FREIGHT	
TOTAL	2.65

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PHONE 264-6871

DATE 6/12/84

INVOICE # 43610

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PHOENIX, AZ 85015

SHIP TO

P.O. NO.	JOB	ORDERED BY
		DKM

CODE	QUANTITY ORIG.	QUANTITY NO. WANTED	QUANTITY ORD.	DESCRIPTION	SQ/FT EA.	TOTAL SQ. FT.	PRICE	EA. UNIT	AMOUNT
261	3	1	3	2080 VELLUM	6.0	18.00	1.500	SF	27.00
261	1	1	1	2080 VELLUM	7.0	7.00	1.500	SF	10.50

TERMS: NET 30 DAYS

ORIGINAL INVOICE

PLEASE PAY FROM THIS INVOICE

SUB TOTAL	37.50
TAX	2.25
FREIGHT	
TOTAL	39.75

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PH. 994-5520

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PHOENIX, ARIZONA 85014
PHONE 264-6871

DATE 5/30/84

INVOICE # 42525

01547000

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4728 N 21ST AVENUE
PHOENIX, AZ 85015

SHIP TO

P.O. NO.	JOB	ORDERED BY

CODE	QUANTITY ORIG.	QUANTITY NO. WANTED	QUANTITY ORD.	DESCRIPTION	SQ/FT EA.	TOTAL SQ. FT.	PRICE	EA. UNIT	AMOUNT
242	1	1	1	PHOTO MYLAR	2.0		4.500		9.00-
221	1	3	3	BLACKLINE	2.0		.100	SF	.60-
				CREDIT FOR INVOICE 42184, DATED 5/24/84					

CREDIT MEMO

TERMS: NET 30 DAYS

ORIGINAL INVOICE

PLEASE PAY FROM THIS INVOICE

SUB TOTAL	9.60-
TAX	.58-
FREIGHT	
TOTAL	10.18-

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3202 N. SCOTTSDALE
SCOTTSDALE, ARIZ.
PH. 994-5520

MAIN OFFICE
4141 NORTH 7th STREET
PHOENIX, ARIZONA 85014
01547000 PHONE 264-6871

DATE 5/24/84

INVOICE # 42184

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4728 N 21ST AVENUE
PHOENIX, AZ 85015

SHIP TO

P.O. NO.	JOB	ORDERED BY
0154700		

CODE	QUANTITY ORIG.	QUANTITY NO. WANTED	QUANTITY ORD.	DESCRIPTION	SQ/FT EA.	TOTAL SQ. FT.	PRICE	EA. UNIT	AMOUNT
240	1	1	1	FILM NEGATIVE	1.0	1.00	6.000	SF	6.00
242	1	1	1	MYLARS	7.0	7.00	4.500	SF	31.50
221	1	3	3	BLACKLINES	7.0	21.00	.100	SF	2.10
				WILL CALL 12:00					

TERMS: NET 30 DAYS

ORIGINAL INVOICE

PLEASE PAY FROM THIS INVOICE

SUB TOTAL	39.60
TAX	2.38
FREIGHT	
TOTAL	41.98

PHOENIX BLUE PRINT

BRANCH
3202 N. SCOTTSDALE
SCOTTSDALE, ARIZ.
PH. 994-5520

MAIN OFFICE
4141 NORTH 7th STREET
PHOENIX, ARIZONA 85014
PHONE 264-6871

DATE 5/23/84

INVOICE # 42076

01547000

SOLD TO
D. K. MARTIN & ASSOCIATES
4728 N 21ST AVENUE
PHOENIX, AZ 85015

SHIP TO

P.O. NO.	JOB	ORDERED BY

CODE	QUANTITY ORIG.	QUANTITY NO. WANTED	QUANTITY ORD.	DESCRIPTION	SQ/FT EA.	TOTAL SQ. FT.	PRICE	EA. UNIT	AMOUNT
240	1	1	1	FILM NEGATIVE	1.0	1.00	6.000	SF	6.00
242	1	1	1	MYLARS	4.0	4.00	4.500	SF	18.00
101	6	1	6	TOPO MAPS			2.500	EA	15.00

TERMS: NET 30 DAYS

ORIGINAL INVOICE

PLEASE PAY FROM THIS INVOICE

SUB TOTAL	39.00
TAX	2.34
FREIGHT	
TOTAL	41.34

NORTH AMERICAN ASSAY COMPANY

1022 West 23rd Street
Tempe, Arizona 85282
(602) 894-0919

№ 2050

Client Name: D.K. Martin & Associates

Address: 4728 N. 21st Avenue
Phoenix, AZ 85015

Date: June 13, 1984

Job No.: MA-1449

INVOICE

Quantity	Description	Unit Cost	Total Cost
12	Geochemical Analysis (Ag)	3.50	42.00
12	Geochemical Analysis (Pb)	3.00	36.00
9	Sample Preparations	1.25	11.25

PAID
CK# 1324 $89.25
6/13/84

Total Due: 89.25

Please Note: All accounts are net 10 days. Accounts thirty days past due are subject to an interest charge of 1.5% per month or 18% per annum.

Form 1370-43
(August 1979)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Arion Job
Doca

COPY FEE STATEMENT

D K MARTIN AND ASSOC
4728 N 21ST AVE
PHOENIX AZ 85015

FOR QUESTIONS REGARDING THIS STATEMENT PLEASE CALL

602-241-5547
ARIZONA STATE OFFICE
P. O. BOX 16563
PHOENIX, AZ 85011

THIS IS NOT A BILL

WHEN MAKING A DEPOSIT OR ADDRESS CHANGE, PLEASE RETURN TOP PORTION OF STATEMENT.

STATEMENT DATE	ACCOUNT NUMBER	BALANCE FORWARD
05/31/84	1133	$43.45

DATE	DESCRIPTION	AMOUNT
05/31/84	COPY WORK	$18.00
NAME	D K MARTIN AND ASSOC	$25.45

ACCOUNT NUMBER	1133	STATEMENT DATE	05/31/84	CURRENT BALANCE AVAILABLE

Form 1370–44
(June 1981)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONAR Proj

Reference Number 270579

Date 5-25-84

COPY WORK REQUEST

Name Doug Martin

Address *(include zip code)*

Telephone *(include area code)*

☑ Waiting ☐ Pick up ☐ Mail

FOR BLM USE ONLY

PREPAYMENT REQUIRED

Paid by: ☐ Check ☐ Money order $ ____

(Payable to BLM)

Cash $ ____

Prepaid account
Account No. 1133 Balance $

DOCUMENT OR RECORD *(Type)*	CERTIFIED YES	CERTIFIED NO	NUMBER PAGES	NUMBER COPIES	COPIES *(Total)*	UNIT PRICE	TOTAL
Maps } done					5	3.25	16.25
Copy } done					1		.25
M.S. 37					1		1.50

DK Martin

Over payment of $ to be refunded by United States Treasury check – allow 30 days

Refunds of Less Than $1.00 Upon Request Only

Completed by:

Date

Grand Total $ 18.00

New Balance $

Remarks

RECEIPT

NORTH AMERICAN ASSAY COMPANY

1022 West 23rd Street
Tempe, Arizona 85282
(602) 894-0919

№ 2050

Client Name: D.K. Martin & Associates

Address: 4728 N. 21st Avenue
Phoenix, AZ 85015

Date: June 13, 1984

Job No.: MA-1449

INVOICE

Quantity	Description	Unit Cost	Total Cost
12	Geochemical Analysis (Ag)	3.50	42.00
12	Geochemical Analysis (Pb)	3.00	36.00
9	Sample Preparations	1.25	11.25

PAID
CK# 1324 $89.25
6/18/84

Total Due: 89.25

Please Note: All accounts are net 10 days. Accounts thirty days past due are subject to an interest charge of 1.5% per month or 18% per annum.

STATEMENT

STATE OFFICE SUPPLY
4828 North 16th St. Phone 264-6466
PHOENIX, ARIZONA 85016

• *OFFICE SUPPLIES* • *XEROX COPY SERVICE* • *PRONTO PRINTS*

STATEMENT DATE	ACCOUNT NO.
06-01-84	0013168

MARTIN, D.K. & ASSOC.
4728 N. 21ST AVE.
PHOENIX, ARIZONA 85015

GROSS _____
DISCOUNT _____
NET
AMOUNT PAID _____

PLEASE DETACH AND RETURN THIS STUB WITH YOUR REMITTANCE

STATEMENT DATE	CURRENT	31 – 60	61 – 90	91 AND OVER
06-01-84	27.11	.00	.00	.00*

DATE	REFERENCE NO.	CHARGES	CREDITS	BALANCE
PREVIOUS BALANCE				.00
05-02-84	INVO 0073343	27.11		27.11*
	BALANCE DUE			27.11 *

TERMS: 2% TEN DAYS E.O.M. ACCOUNTS 60 DAYS PAST DUE WILL BE PLACED ON C.O.D.

STATE OFFICE SUPPLY
4828 North 16th St. Phone 264-6466
PHOENIX, ARIZONA 85016

PLEASE PAY LAST AMOUNT IN THIS COLUMN

SILVERADO/HIBERNIA

ASSIGNMENT:

Deliniate Vein System between the Silverado and Hibernia Mines

Obtain & Prepare base maps, ~~enlarge topo Maps~~	99.68
Conduct field geological investigation	2113.30
Sample Vein System, assay & map	210.00
Suggest drill locations & map	64.70
Interpret field & research data Prepare maps & Report	1243.00
Install lock on gate	12.15

Obtain & Prepare Base Maps & Data	102.15
Conduct field geological investigation	2113.30
Sample Vein System & assay for Pb & Ag ~~Collect samples~~	210.00
Interpret field & Research data & Suggest drill locations	
Install lock on gate	12.15
Prepare maps & Report	1243.00
Prepare Two State Permit affadivits	40.50
Obtain Continuance ~~Damage~~ & Restoration bonds	125.00
	3680.60

additional

check $2000.00 ✓ 10 Kiedy return

~~Kiedy~~ [Concor Resources]
Tom

07-247 345

Vandewall	4 fields	150	600
Helper	4	80	320
Vander	1 office		150
4 days motel		20	80
4 days	food		100
Supplies			40
Sample Prep			125
Van			

200
80
280
1400
$4000
1000

$1600.00

920
1507.00
125
~~1632~~

3
85
7
595

Trip	125
Buss	300
truck	270
assay	510
Map	200
duplica	60
Sec	30
Postage	10
delin Samp	25
topo	10
truck maint	30
Gasoline	30
	1600.00

3200
30/0 900
$60 vs 3220

Vandewall
Typo 754-2608
Home 754-4481

5/21 – to Kingman

GEOLOGICAL INVESTIGATION
SILVERADO - HIBERNIA VEIN SYSTEM
MOHAVE COUNTY, ARIZONA

by: D.K. MARTIN & ASSOCIATES
WM. VANDERWOAH, GEOLOGIST

FOR: ~~CONAR CO.~~ ~~ARIZONA SILVER, INC~~
CORWIN EDE — CONAR PROJECT

JUNE 1, 1984

Geological Investigation
Silverado - Hibernia Vein System
Mohave County, Arizona

Location:

The Silverado - Hibernia prospect consists of one patented mining claim, the Hibernia, located primarily in the southwest corner of Section 19, Twp 18N; Rge 14W, and two Arizona State mineral leases encompassing the Silverado Mine located in the southwest corner of Section 30, Twp 18N; Range 14W; G&SRM, Mohave County Arizona. The two mines are situated approximately one mile apart in fairly rugged terrain on the eastern slople of the Wallapai Mountains. The property is accessible from U.S. Highway 93 via 10 miles of an unimproved, and unmaintained road.

Scope of Report:

Facts and opinions contained in this report are based on data gathered during a detailed field investigation of the vein system described below. Four man days were spent in the field collecting data and two days were required to interpret field observations, drafting and report compilation. Land status, regional geology, history and production from the propery are beyond the ~~purpose~~ scope of this report.

Geology:

Notwithstanding, extensions of the vein north and

SOUTH OF THE AREA INVESTIGATED, THE SILVERADO - HIBERNIA VEIN OUTCROPS INTERMITTANTLY FOR THE FULL ONE MILE DISTANCE BETWEEN THE TWO MINES. IN AREAS OF STEEP RELIEF AND HEAVY ALLUVIAL COVER THE VEIN LOCATION CAN BE INFERRED BY TRAILING VEIN FRAGMENTS UPSLOPE TO THE POINT OF ORIGIN. BY THESE METHODS, OUTCROP LOCATION BY DIRECT EXAMINATION AND INFERRED LOCATION FROM TALUS TERMINATION, THE VEIN APPEARS TO BE A CONTINUOUS STRUCTURE FROM THE SILVERADO MINE TO THE HIBERNIA MINE, (SEE MAP #1).

It is
~~PROBABLY~~ A TRUE FISSURE VEIN, WHERE QUARTZ OCCUPIES THE ~~CRACK~~ ? OPEN SPACES ALONG A FRACTURE IN THE GRANITE COUNTRY ROCK. THE SILVERADO - HIBERNIA VEIN STRIKES BETWEEN N12°W AT THE SILVERADO MINE TO N5°E IN THE VACINITY OF THE HIBERNIA. THIS AMOUNTS TO A SLIGHT CURVE IN THE VEIN TREND AND SUGGEST THE POSSIBILITY OF RADIAL FRACTURE. DIPS VARY FROM 64°W TO 85°W AT THE SILVERADO TO 61°E TO 69°E AT THE HIBERNIA. ROLLOVER OF VEIN DIP OCCURS 800' TO 900' NORTH OF THE SILVERADO SHAFT AND, AS WOULD BE EXPECTED, DIPS STEEPEN AS THE POINT OF ROLLOVER IS APPROACHED. ONLY TRUE DIPS AT CLEAR CONTACTS ARE PLOTED ON MAP #1, QUESTIONABLE MEASUREMENTS WERE OMMITED.

COINCIDENTALLY, IN THE VACINITY OF The DIP ROLLOVER, ~~ALSO OCCURS~~ THE MAIN FLEXURE IN THE VEIN ~~ALSO~~ IS THE LOCATION OF A

SIGNIFICANT QUARTZ SPUR OFF THE MAIN VEIN. THIS ASSEMBLAGE OF STRUCTURAL AND PHYSICAL ANOMALIES WARRANTS FURTHER EXAMINATION.

VEIN WIDTHS VARY FROM 23' AT THE SILVERADO OPEN CUT TO 15' AT THE HIBERNIA SHAFT. BETWEEN THE TWO, WIDTHS GENERALLY PINCH AND SWELL BUT AVERAGES NEARLY 11' WHERE MEASUREABLE ON THE OUTCROP. ~~OF COURSE~~ WIDTHS MAY ~~BE VERY~~ POSSIBLY NARROW WHERE THE VEIN DOES NOT OUTCROP BUT IS INFERRED BY FLOAT.

VEIN MINERALOGY, AS EVIDENCED AT THE SILVERADO ~~MINE~~ AND ~~THE~~ HIBERNIA MINES CONSISTS PRIMARILY OF QUARTZ WITH GALENA, CHALCOPYRITE AND PYRITE OCCURING AS VEINLETS AND BLEBS WITHIN THE QUARTZ. CALCITE, SIDERITE AND BARITE (?) WERE ALSO OBSERVED AT THE HIBERNIA AND COPPER CARBONATES WERE OBSERVED AT BOTH MINES. NO MINERALS, OTHER THAN QUARTZ, AND MINOR IRON OXIDES, WERE NOTED IN THE OUTCROP OR FLOAT IN THE REMAINDER OF THE VEIN. VEIN QUARTZ IN PRIMARILY WHITE TO BLUE-GRAY, VERY FINE GRAINED WITH OCCASIONAL DRUSY CAVITIES. AN EXCEPTION TO NOTE IS IN THE VACINITY OF THE VEIN SPUR WHERE FLOAT AND OUTCROP OF THE MAIN VEIN CONTAINS ABUNDANT IRON OXIDE STAINING AND LIMONITE FILLED CAVITIES. THE SPUR ITSELF IS ATYPICAL IN TEXTURE AND MINERALOGY BEING MORE CHARACTERISTIC OF A PEGMATITE WITH LARGE, EUHEDRAL, PINK FELDSPAR CRYSTALS IN WHITE AMORPHOUS QUARTZ.

(4)

SAMPLE DESCRIPTIONS

1-5) QUARTZ AND GOUGE ZONE AT

Assay results — SILVERADO OPEN CUT – W. to E across Vein – Total 23'

Ag 0.986 → 1) FRACTURED QUARTZ w/ MINOR FeOx, $CuCO_3$ STAIN, SMALL ccp & py BLEBS. 5' CHANNEL

Ag 0.5568 → 2) MOSTLY GOUGE, RED-BROWN, FRIABLE CLAY. 5' CHANNEL WITH GRANITE INCLUSIONS.

Av. 3.0465

Ag 0.493 → 3) QUARTZ – SAME AS 1. 5' CHANNEL

Ag 10.15 → 4) QUARTZ – SAME AS 1. 5' CHANNEL

Ag 0.2842 → 5/ QUARTZ w/ VERY FINE GRAIN CLAY GOUGE. 3' CHANNEL

north of Silverado mine

Ag 5.626 → 6) FRACTURE QUARTZ w/ 50% CLAY GOUGE. 19' CHANNEL

near crest of vein rollover

Ag 7.25 → 7) QUARTZ, WHITE TO BLUE-GRAY, MINOR VUGS w/ LIMONITE 13' CHANNEL

assay mill point between Silverado & Hibernia

Ag 0.345 → 8) QUARTZ, WHITE TO BLUE-GRAY, DRUSY VUGS. 11' CHANNEL

9-11) FRACTURED QUARTZ, HEAVY FeOx STAIN AT HIBERNIA SHAFT – W to E across Vein – Total 15'

Ag 0.3828 → 9) QUARTZ, FeOx STAIN. 5' CHANNEL

Ag 0.1421 → 10) QUARTZ, FeOx STAIN. 5' CHANNEL

Ag 0.1769 → 11) QUARTZ, FeOx STAIN. 5' CHANNEL

Ag 8.99 oz, Pb 2.30% → 12) HIBERNIA STOCKPILE (~~PROBABLY LOW GRADE ORE~~) GRAB SAMPLE OF QUARTZ w/ Ga, ccp, py BLEBS AND VEINLETS ALL STAINED w/ $CuCO_3$ SOME cc AND BARITE (?).

~~Ap~~ 5

Conclusions and Recommendations:

On the bases of field observations, ore deposits appear to be limited to pods or lenses located along the vein at random intervals. Typically, favorable loci for ore deposition along fissure veins is at flexures, vein junctions and other loci, such as dip rollover. While the existing works at the Silverado and the Hibernia appear to be random pods, the existance of a coincidentally occurring vein. flexure, rollover and spur is sufficient to warrant drilling.

Insert 1

~~Proposed~~ drilling, as shown on drawing No. 2, will adaquately test the anomalous zone for economic quantities of ore.

Drill Hole Data:

DH	~~Length~~ Depth	Dip	Bearing
1	200'	37°	N67°W
2	180'	41.5°	N90°W
3	200'	39.5°	S66°W

Complete drilling plan; access road, drill pad and drill cross sections are diagramed on drawing No. 2.

Finally, it should not be overlooked that additional ore may be developed at the Silverado mine and the Hibernia mine.

Respectfully Submitted

Wm. Vanderwall, Geologist
Az. Reg. No. GIT 34

ASSAYS OF SILVERADO HIBERNIA VEIN

Sample No.	Ag ppm	Ag Oz	Pb ppm	Pb %
1	34.0	0.9860		
2	19.2	0.5568		
3	17.0	0.4930		
4	350.0	10.150		
5	9.8	0.2842		
6	194.0	5.6260		
7	250.0	7.250	3210	0.321%
8.	11.9	0.3451		
9	13.2	0.3828		
10	4.9	0.1421		
11	6.1	0.1769		
12	310.0	8.990	23000	2.30%

Insert 1

(1)

Conclusions & Recommendations

On the basis of field observations, ore deposits appear to be limited to pods, although, all assays showed some silver & lead mineralization. Favorable loci for ore deposition in fissure veins appears to be at fractures, vein junctions and vein rollover.

While the existing works at the Silverado and Hibernia mines appear to be pods, the existence of vein fracture, rollover and the quartz spur, plus the favorable assay results, justifies a drilling program.

Three drill holes (rewrite) are proposed, as shown on Drawing No. 2) should adequately test the Quartz Spur as well as the main vein. The drill holes should be placed as near to the Spur and Vein as possible so that the holes will be drilled 20° to 30° off Vertical.

(over)

Holes drilled at higher angles are generally more costly & unreliable, although a hole cutting perpendicular to the vein is desirable,
/the additional thickness of the vein may be calculated and evaluated

If one or two of the drill holes show good ore, it would probably be advisable to test the vein at a depth of ±200' to determine the water table - the probable oxide - sulfide contact. Additional holes at or near sample location #4 + 6 near near the Silverado mine and #12 near the Hibernia mine.

Additional sampling along the exposed parts of the vein are also in order.

Three drill holes are proposed as shown on Drawing No. 2. Which will Adequately test the Anomalous Zone of the Quartz Spur and the main Vein.

Drill Hole Program

DH	Depth	Angle	Bearing
1	200'	37°	N 67° W
2	180'	41.5°	N 90° W
3	200'	39.5°	S 66° W

Alternative Program

1	110'	70°	N 67° W
2	110'	70°	N 90 W
3	100'	68°	S 66° W

The alternative program seems preferable because of the total depths are considerably less and the more vertical angles of the holes. No more road building would be necessary for the alternative plan. Any final program within the limits of the above plans would be acceptable. If stream gravels may be a problem, but

this can be solved by either Dozing the gravels out of the work to bedrock or moving adjacent to the work - still testing the anomalous zone.

If one or two of the drill holes indicate good ore, it would be advisable to test the vein at a depth of ± 200 to determine the extent of the ore body and the water table. additional holes at or near Sample locations #4 and #6 near the Silverado mine and Sample location #12 near the Hibernia mine

GEOLOGICAL INVESTIGATION

SILVERADO - HIBERNIA VEIN SYSTEM
Mohave County, Arizona

LOCATION:

The Silverado - Hibernia prospect consists of one patented mining claim, the Hibernia, located primarily in the southwest corner of section 19, Twp. 18 N., Rge 14 W., and two Arizona State Prospecting Permits (86502 & 86533) encompassing the Silverado Mine located in the southwest corner of Section 30, Twp. 18 N., Rge 14 W., G&SRB&M, Mohave County Arizona.

The two mines are situated approximately one mile apart in fairly rugged terrain on the eastern slope of the Wallapai Mountains. The property is accessible from U.S. Highway 93, via 10 miles of an unimproved, unmaintained road.

SCOPE OF REPORT:

Facts and opinions contained in this report are based on data gathered during a detailed field investigation of the vein system described below. ~~Four man-days were spent in the field collecting data and two days were required to interpret field observations, drafting and report compilation.~~ Land status, regional geology, history and production from the property are beyond the scope of this report.

GEOLOGY:

Notwithstanding, extensions of the vein north and south of the area investigated, the Silverado - Hibernia Vein outcrops intermittantly for the full one mile distance between the two mines. In areas of steep relief and heavy alluvial cover, the vein location can be inferred by trailing vein fragments upslope to the point of origin. By these methods, outcrop location by direct examination and inferred locations from talus termination, the vein appears to be a continuous structure from the Silverado Mine to the Hibernia Mine. (See Map #1).

It is a true fissure vein where quartz occupies the open spaces along a fracture in the granite country rock. The Silverado - Hibernia Vein strikes between N. 12° deg W. at the Silverado Mine to N. 5° deg E. in the vacinity of the Hibernia Mine. This amounts to a slight curve in the vein trend and suggests the possibility of radial fracture. Dips vary from 64° deg. W. to 85° deg. W. at the Silverado Mine to 61° deg E. to 69° deg. E. at the Hibernia Mine. Rollover of vein dip occurs 800' to 900' north of the Silverado shaft, and as would be expected, dips steepen as the point of rollover is approached. Only true dips at clear contacts are plotted on Map #1. Questionable measurements were omitted.

Coincidentally, in the vacinity of the dip rollover and the main flexure in the vein, is the location of a significant quartz spur off the main vein. This assemblage of structural and physical anomalies warrants further examination.

Vein widths vary from 23' at the Silverado open cut to 15' at the Hibernia shaft. Between the two, widths generally pinch and swell, but averages nearly 11' where measureable on the outcrop. Widths may possibly narrow where the vein does not outcrop, & its location ~~but~~ is inferred by float.

Vein mineralogy, as evidenced at the Silverado and Hibernai Mines, consist primarily of quartz with galena, chalcopyrite and pyrite occuring as veinlets and blebs within the quartz. Calcite, siderite and barite(?) were ~~also~~ observed at the Hibernia ~~and~~ and copper carbonates were observed at both mines. No minerals,other than quartz and minor iron oxides were noted in the outcrop or float in the remainder of the vein. THE Vein quartz is primarily white to blue-gray, very fine grained with occasional drusy cavities. An exception to note is in the vacinity of the vein spur where float and outcrop of the main vein contains abundant iron oxide staining and limonite filled cavities. The spur itself is a typical in texture and mineralogy being more characteristic of a pegmatite with large, enhedral, pink feldspar crystals in white amorphous quartz.

CONCLUSIONS AND RECOMMENDATIONS:

On the basis of field observations, ore deposits appear to be limited to pods or lenses located along the vein at random intervals. Typically, favorable loci for ore deposition along fissure veins is at flexures, vein junctions and other loci, such as dip rollover. While the existing works at the Silverado and Hibernia appear to be random pods, the existance of a coincidentally occuring vein flexure, rollover and spur is sufficient to warrant drilling.

On the basis of field observations, ore deposits appear to be limited to pods, although, all assays show some silver and lead mineralization. Favorable loci for ore deposition in fissure veins appears to be at ~~flee~~ x tures, vein junctions and vein rollover.

While the ~~existing~~ OLD WORKINGS works at the Silverado and Hibernia Mines appear to be pods, the existence of vein flexure, rollover and the quartz spur, plus the favorable assay results, justifies a drilling program.

Three drill holes are proposed as shown on Drawing #2, which ~~will~~ should adequately test the anomalous zone of the quartz spur and the major vein.

Suggested Drilling Program

DH	Depth	Angle	Bearing
#1	200'	37 ~~deg~~°.	N.67 ~~deg~~° W.
#2	180'	41.5 ~~deg~~°.	N 90 ~~deg~~° W.
#3	200'	39.5 ~~deg~~°.	S 66 ~~deg~~° W

A Alternative Drilling Program

DH	Depth	Angle	Bearing
#1	110"	70° ~~deg~~	N 67° W
#2	110'	70° ~~deg~~	N 90° W
#3	100'	68° ~~deg~~	S 66° W

The alternative program ~~seems~~ MAY BE preferable, ~~because of~~ THE total depths are considerably less and the more ANGLES TOWARDS vertical. ~~angles of the holes~~. No ~~more~~ EXTENSIVE road building would be necessary for ~~the alternative~~ THIS plan. Any final program within the limits of the above plans would be acceptable. If stream gravels ~~may be~~ PRESENT a problem, ~~but~~ this can be solved by either dozing the gravels ~~out of the wash~~ FROM THE DRILLING SITE to bedrock or moving adjacent to the wash - still testing the anomalous zone.

If one or two of the drill holes indicate good ore, it would be advisable to test the vein at a depth of +- 200' to determine the extent of the ore body and the water table. Additional TEST holes at or near the sample locations #4 & #6 near the Silverado mine ~~will~~ WILL ASSIST IN THE EVALUATION.

Respectfully submitted,

Wm. Vanderwall, Geologist
Az. Reg. No. GIT 34
~~Edited by S. C. Brown, Sr. Geologist~~
~~19 June 1984~~

SAMPLE DESCRIPTIONS

Quartz and gouge zone at Silverado Open Cut. W. to E. across vein. Total 23':

1) Fractured quartz with minor FeOx, $CuCO_3$ stain, small ccp & py blebs. 5' channel

Assay Results: Ag 0.986 oz/tn Pb 106 ppm

2) Mostly gouge, red-brown, friable clay. 5' channel with granite inclusions.

Assay Results: Ag 0.557 oz/tn Pb 98 ppm

3) Quartz - same as #1. 5' channel

Assay Results: Ag 0.493 oz/tn Pb 26 ppm

4) Quartz - same as #1. 5' channel

Assay Results: Ag 10.15 oz/tn Pb 167 ppm

5) Quartz with very fine grain clay gouge. 3' channel

Assay Results: Ag 0.284 oz/tn Pb 21 ppm

~~Area near vein rollover:~~ North of Silverado Mine:

6) Fracture quartz with 50% clay gouge. 19' channel

Assay Results: Ag 5.626 oz/tn Pb 50 ppm

Area near vein rollover:

7) Quartz, white to blue-grey, minor vugs with limonite 13 ' channel

Assay Results: Ag 7.250 oz/tn Pb 3210 ppm (0.32%)

Approximate mid point between Silverado & Hibernia:

8) Quartz, white to blue-grey, drusy vugs. 11" channel

Assay Results: Ag ~~11.9~~ 0.345 oz/tn Pb 148 ppm

Fractured quartz, heavy FeOx stain at Hibernai Shaft.

West to East across vein . Total 15'.

9) Quartz, FeOx stain. 5' channel.

Assay Results: Ag 0.383 Pb 229 ppm

10) Quartz, FeOx stain. 5' channel.

Assay Results: Ag 0.142 Pb 186 ppm

11) Quartz, FeOx stain. 5' channel.

Assay Results: Ag 0.177 Pb 133 ppm

Hibernia Stockpile:

12) Grab sample of quartz with Ca(?), Ccp, Py blebs and veinlets all stained with $CuCO_3$. Some CC and barite(?).

Probably copper carbonate

Assay Results: Ag 8.990 Pb 23000 ppm (2.30%)

ccp - Chalcopyrite
cc - Copper Carbonate

NORTH AMERICAN ASSAY COMPANY
1022 West 23rd Street
Tempe, Arizona 85282
(602) 894-0919

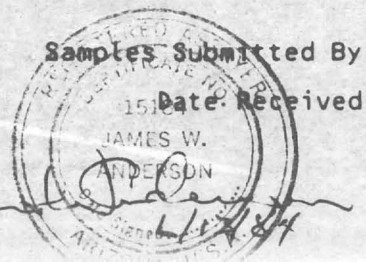
Job Number MA-1449
Page 1 Of 1
Date June 13, 1984

ANALYTICAL REPORT

Client I.D.	Lab #	Geochemical Analysis Ag (ppm)	Pb (ppm)
1	1	34.0	106
2	2	19.2	98
3	3	17.0	26
4	4	350.0	167
5	5	9.8	21
6	6	194.0	50
7	7	250.0	3210
8	8	11.9	148
9	9	13.2	229
10	10	4.9	186
11	11	6.1	133
12	12	310.0	23000

Client Name: D.K. Martin & Associates
Address: 4728 N. 21st Avenue
Phoenix, AZ 85015
Telephone: 246-9573

Samples Submitted By: D.K. Martin
Date Received: June 7, 1984



Silverado

The best silver ore apparently occurs in the Pegmatite dike which appear to occur at the Otz spur where the drilling is Recommended. (

Silverado Produced $175,000 Ag. from its upper level.

Assays results definitely justify more exploration & a drilling prog.

Hibernia – Sulfide ore at water level – very good –
? Where is water level? ±175'

Paid to Eleanor Davis

			Cancelled Check
1-16 SCI	150.00	# 1271	X
2-6	75.00	1278	X
3-4	75.00	#1290	X
4-7 (4-24	75.00	# 1300	X
5-11	75.00	# 1309	no

Cedar Mineral Co.

4728 North 21st Avenue
Phoenix, Arizona 85015

(602) 242-8345

PARCEL # 186

LOCATION:

The property is located in Maynard Mining District, Mohave County, Arizona; Sections 19, 30 and 31; Twnshp 18 N., Rnge 14 W., of the G&SRB&M, in the Hualapai Mountain Range, 9 miles due west of the Cane Springs Road and State Highway #93. From Kingman or Phoenix, State Highway #93 is paved. A dirt and graded road from Cane Springs has been maintained for approximately 6 miles. The next 6 miles has had no improvements or maintainance for the past 5 years. The road and property now will need approximately 3 weeks of dozer work for exploration development and haulage access to all points of the property.

HISTORY & GEOLOGY:

In the late 1800's one lense of high grade oxide silver ore was mined, packed by burro train to the Colorado River and shipped by water to Swansea, Wales, for reduction; the ore assaying from 100 ounces to several hundred ounces per ton. This shipment of ore is reported to have brought the shippers a return of about $125,000. The ore was so rich there was but little cobblings left on the dumps; the ore being readily detected by the greenish and black stain.

Only a small amount of ore has been shipped from the property since that time. This mine is known as one of the rich silver properties of Mohave County.

The last owners restaked this property in 1964 and shipped ore from their exploration cuts while continuing to sink the main shaft from 68 feet to 110 feet.

At the 100 foot level, a drift approximately 470 feet was driven along the vein. Due to the high smelter and shipping cost (as shown on the attached smelter receipts), shipping was discontinued.

As stated before, mining in the past was done for surface or oxide ores, and the starting of a double compartment shaft to reach the sulfide zone at water level. At 60 feet, sulfide ore was encountered that assayed 470 ounces of silver per ton.

At the portal of a short tunnel, 18 to 30 inches of good ore can be seen. The work performed as assessment showed this particular shoot of ore to go down as evidenced in the bottom of the shallow winze which was sunk.

The Hibernia Vein is a quartz filled fissure in the Precambrian granite and most persistant in length, being traceable for several miles.

Superficial cuts, pits and two short tunnels expose several very rich shoots of typical oxidized silver ore over an intermitent length of this vein. The major outcrop stands boldly above the surface, often showing twenty feet in width.

The Hibernia mine has proved, almost without exception, a high grade zome of enriched sulfide ore at water level, invariably directly below identical oxidized shoots. The silver ores are associated with the quartz pegmatite veins.

Mr. T. MacSmith, in his 1940 report states,

"Every indication points to a big producer with further development in the right way - sinking and drifting."

AREA GEOLOGY:

It is also Mr. S. Jones' observation, while operator and consultant for several properties in the Hualapai Mountains, that the silver bearing veins are in the great majority of instances associated with pegmatite veins such as are noticed on this property, and at other points in the immediate vicinity.

These pegmatites represent segregations of massive quartz and course feldspar crystals from a molten intrusion of granitic rock into the greatly older Precambrian rocks of the neighborhood. These pegmatite dykes are usually roughly tabular in shape and represent the filling fissure developes along lines of weakness of a contracting cooling magma. Any subsequent earth movement would have a tendency to re-open the old fissures with a consequent shattering of the pegmatite veins occupying them. Owing to the brittle nature of the minerals, quartz and feldspar, the pegmatite veins readily yield to shattering forces. In the open spaces in the pegmatite veins the primary silver bearing minerals were deposited. In the next stage, the veins were affected and altered by oxidation and an erosion the period of secondary enrichment.

'The general area is underlain by grantic gneiss rocks of older Precambrian type. At the mine there are apparently discontinuous quartz veins or lenses of milky to bluish quartz, considerably mineralized with silver and lead.

The Silverado vein is undoubtedly fissure and the southerly extension of the Hibernia Vein which produced approzimately $175,000 in rich silver ore from its upper levels.

The vein is quartz and its harder portions crop several feet above the surface of the granite and schist. Some faulting is shown at the surface and frequent crushed zones would indicate vein movements. Mineral is present in both the solid and crushed portions of the vein.

Only the top ore that was left in the raise where the rich silver was mined to ship to Swansea, is in sight at the present time, but that shows very plainly what can be expected with development, for the vein is wide, the ore rich, and the quartz vein a true fissure.

PROCESSING:

The sulfide ores of this district are very easily treated by floatation, usually giving a rich concentrate and high ratio of concentration with an exceptional clean tailing, 95% to 98% extraction, of silver value is not unusual.

COMMENTS AND REMARKS:

It is probable that sufficient ore would be taken out of the Silverado during the three or four months period of exploration to

meet the expenses incurred, while there is a good possibility of taking out ores having similar values to those taken from the same vein on the adjoining Hibernia Property, which would make the initial expense of exploiting this property seem infinitely small in comparison.

Mr. L. V. Root states,

"I can say that in my four years of scouting in Mohave County, I have visited no property which shows such possibilities of quick results with such a small investment."

Mr. R. C. Jacobson states,

"I consider the prospect most promising. The vein outcrop is very strong and of good width, the little development done so far, has been confined to prospecting for high grade shipping ore. Two hundred ounces or over; with some success; but I believe a very profitable ore shoot is likely to result from deeper development, if projected into the sulfide zone."

"Judging from the surface showing, you may expect to open upwards of four to ten feet of vein filling over a length of some one thousand feet, and if not continuous, the several shoots will be very closely associated over this length."

Mr. S. S. Jones states,

"I conclude this report with the statement that I consider the property merits further extensive development."

THE MILL:

The Hayden Mill was first constructed in the late 1940's as a 50 ton per day tabling concentration mill owned and operated by Mr. Hayden and his son.

Due to the low value of their ore and the low prices paid for concentrates, Mr. Hayden ceased mining and subsequently closed the mill.

In 1974, Mr. Robert Burnside negotiated a lease-purchase with Mr. Hayden for the mill. In 1975, the mill was subleased to the Solomon Mines to process ore from the Signal, Arizona area. These people updated the mill into a six cell floatation type.

Due to mismanagement and legal entanglements, the Solomon Mines defaulted, forcing Mr. Burnside to again take possession of the mill.

Presently it will be necessary to complete the milling cycle and sophisticate the grinding cycle for economical operation.

Negotiations are in process with Mr. Burnside to purchase the Mill and the 20 acres it is situated on. The cost of same has been extimated in the Schedule under "Property Leases".

Therefore at 50 tons per day and a very very conservative recovery ratio of 85%, Exhibit "B" shows the approximate net value to be recovered in relation to the ounces of silver per ton of head ore excluding all other minerals present and recoverable such as gold, from the ore.

An advantage to owning the Mill and making it operational will extablish the second such facility of this type in the State. The Tonto Mill is the only operational custom mill in the State at this time. That is, if perhaps difficulties are encountered, the Hayden Mill can always operate as a custom mill.

Mr. Vernon Dale, engineer for the Arizona State Department of Mineral Resources stated in an Arizona publication,

"Yet Mohave County has been absolutely one of the largest producers of Gold, Silver, Lead, Copper and Zinc in the State. The increase in prices of all those minerals gives us an entirely new economical perspective with regards to those deposits."

REFERENCE:

The above comments and factual representations have been extracted from the following reports and interviews:

Root, L. V.
Mine Manager
Colorado River Gold Mines, Inc.
September 1, 1927

Woolley, M. W.
Ore Buyer
United States Smelting Refining & Mining Company
Midvale Smelter and Mills
January 9, 1929

Jacobson, R. C.
Mining Engineer and Chemist
Mohave Assay and Engineering Office
June 14, 1926

Jones, S. S.
Engineer of Mines
July 27, 1937

Department of Mineral Resources, State of Arizona
T. Mac Smith
June 1, 1940

Rogers, M. S.
Mining Engineer
no date

Ward, C. R.
Field Engineer
Cedar Mineral Company
3 Feburary, 1976

Hatch, R. T.
Mining Contractor
10 May, 1976

Martin, D. K.
Staff Engineer
Alpha Management Corporation
June 1, 1976

EXHIBIT A

SILVERADO PROJECT

Unpatented Lode Claims located on United States (Federal) Property:

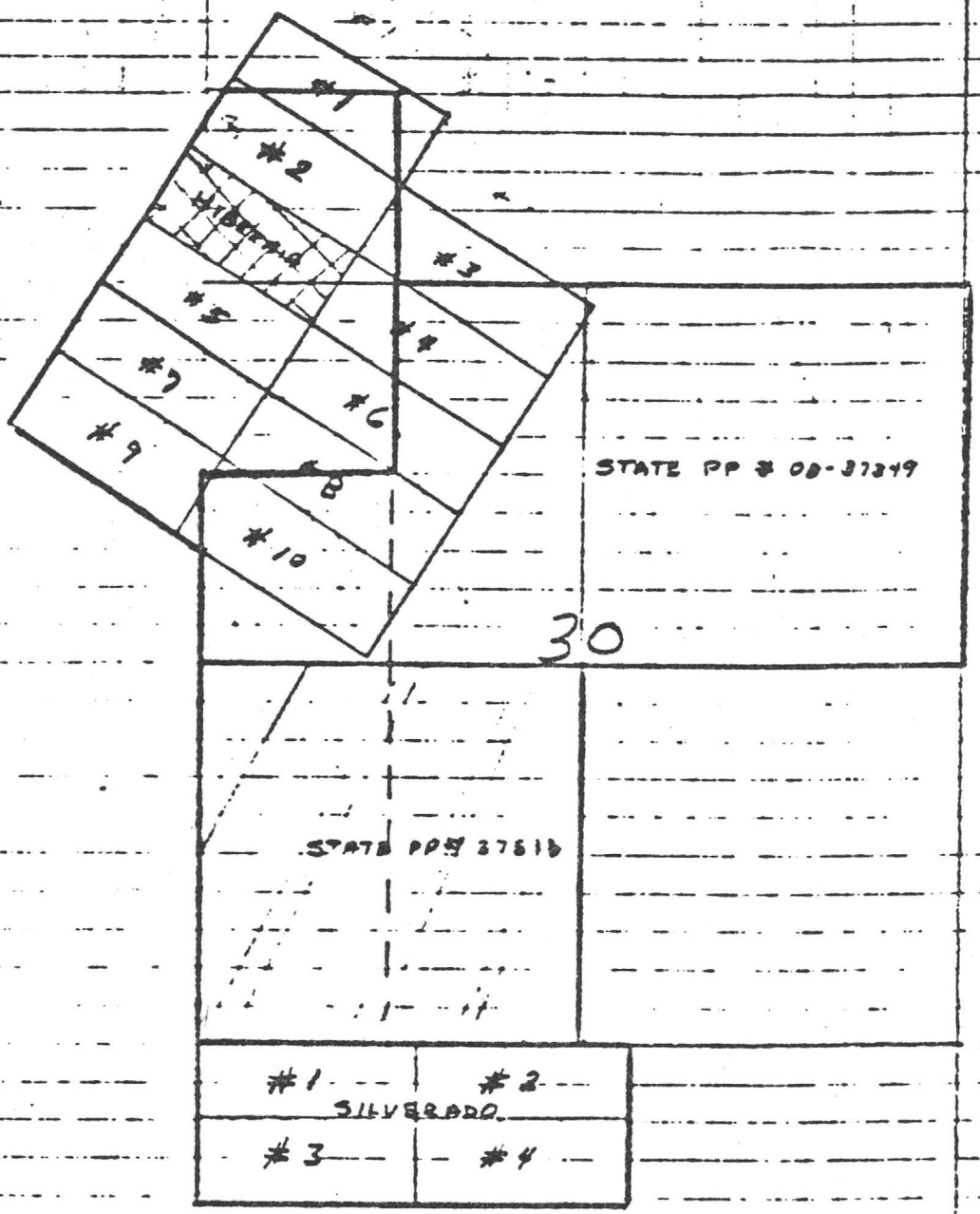
		BOOK	PAGE
Silverado	#1	326	58
Silverado	#2	326	60
Silverado	#3	326	62
Silverado	#4	326	64
Hibernia	#1	326	66
Hibernia	#2	326	68
Hibernia	#3	326	70
Hibernia	#4	326	72
Hibernia	#5	326	74
Hibernia	#6	326	76
Hibernia	#7	326	78
Hibernia	#8	326	80
Hibernia	#9	326	82
Hibernia	#10	326	84

Arizona State Land Lease:

PP# 08-37516	SW¼	30,	18N	14W	160 acres
PP# 08-37349	Lot 2	30	18N	14W	36.56 acres
	NE¼	30	18N	14W	160 acres
	E½ NW¼	30	18N	14W	80 acres

ILVERADO BOUNDARY SKETC

19

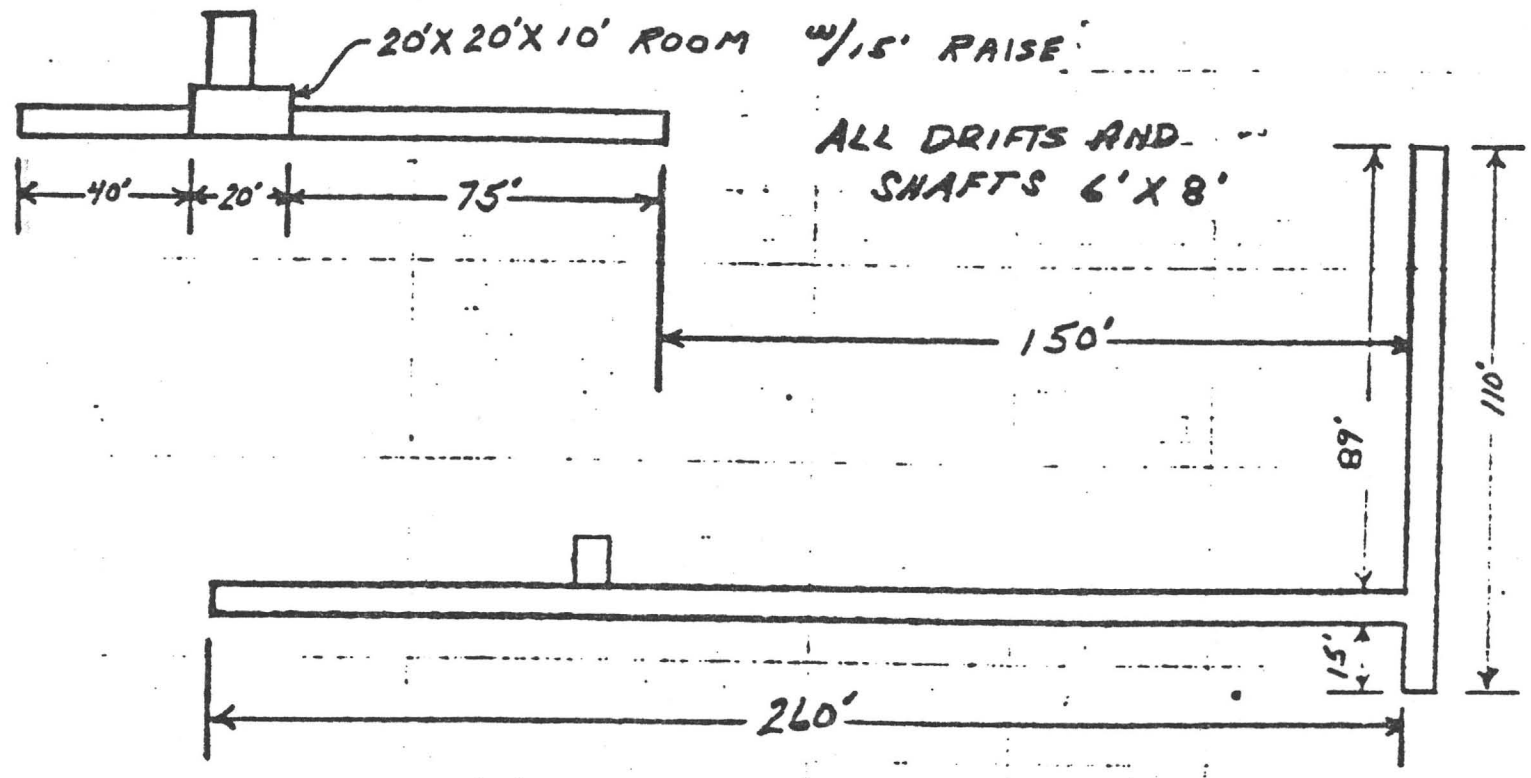


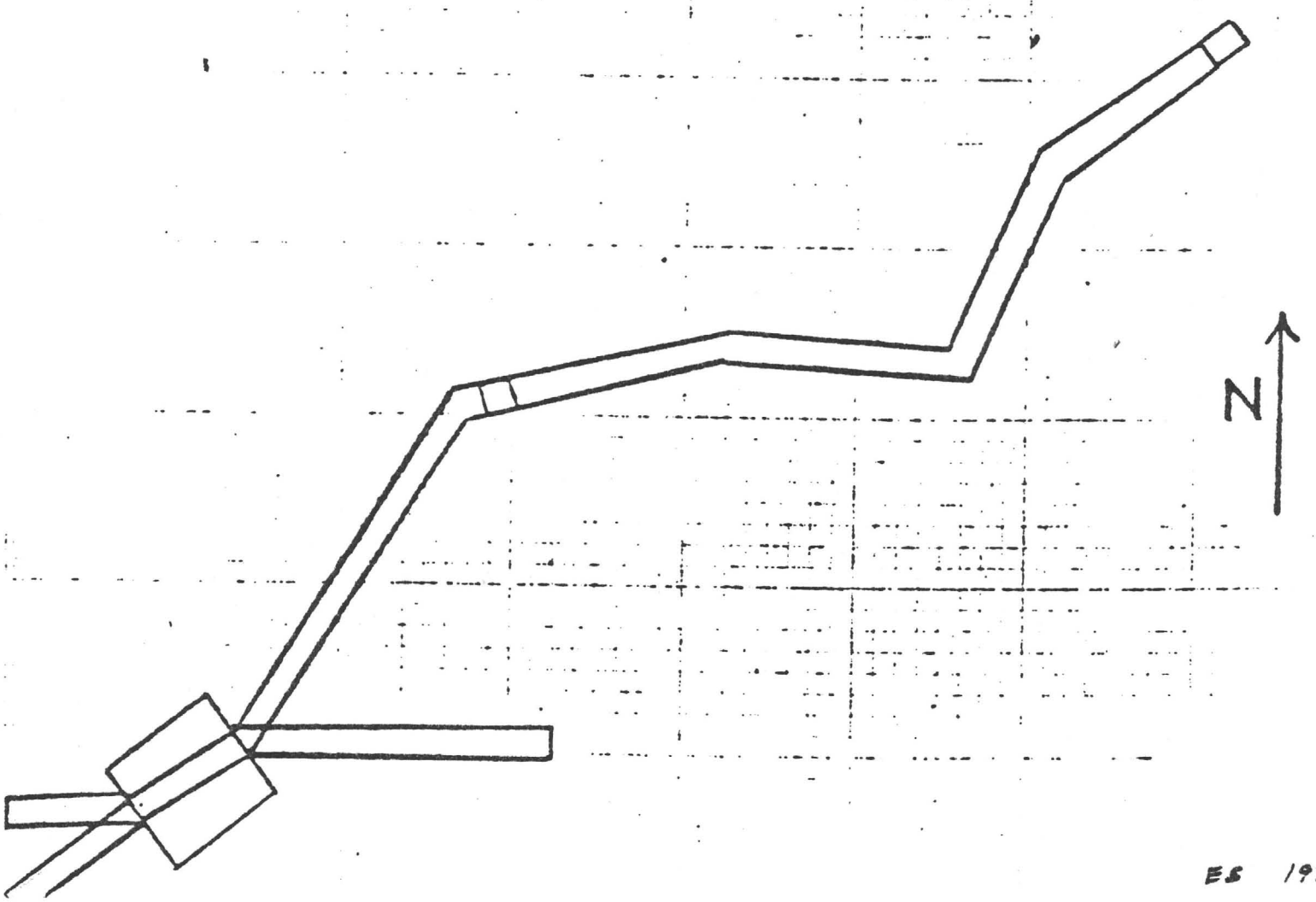
31

R. 15 W.
R. 14 W.

T. 18 NORTH

SILVERADO
UNDERGROUND SKETCH

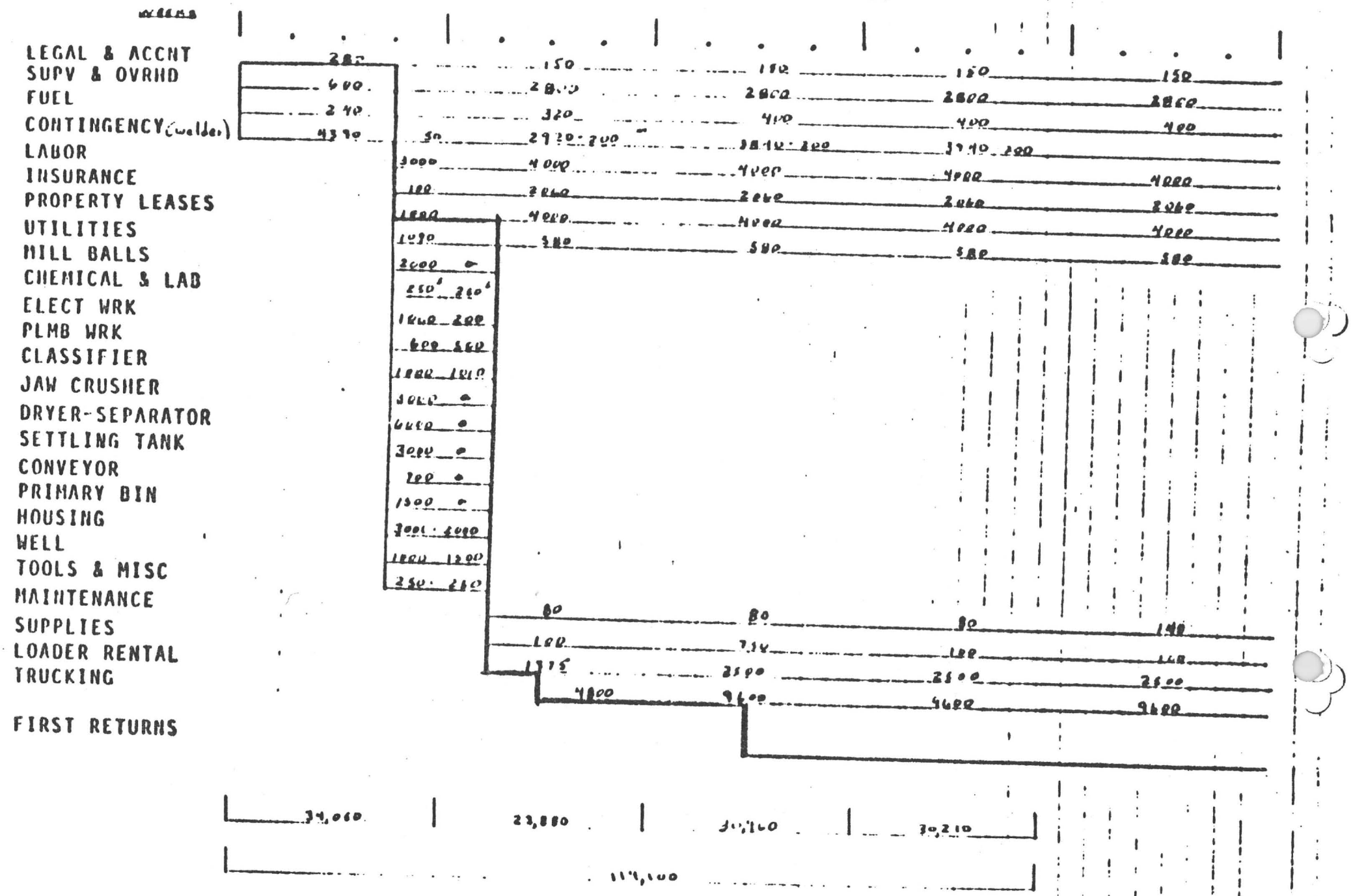




ES 1976

HAYDEN MILL
PROPOSED SCHEDULE & EXPENDITURES

5/8/76



6/3/76

COMBINED
HAYDEN MILL & SILVERADO MINE
Proposed Schedule & Expenditures

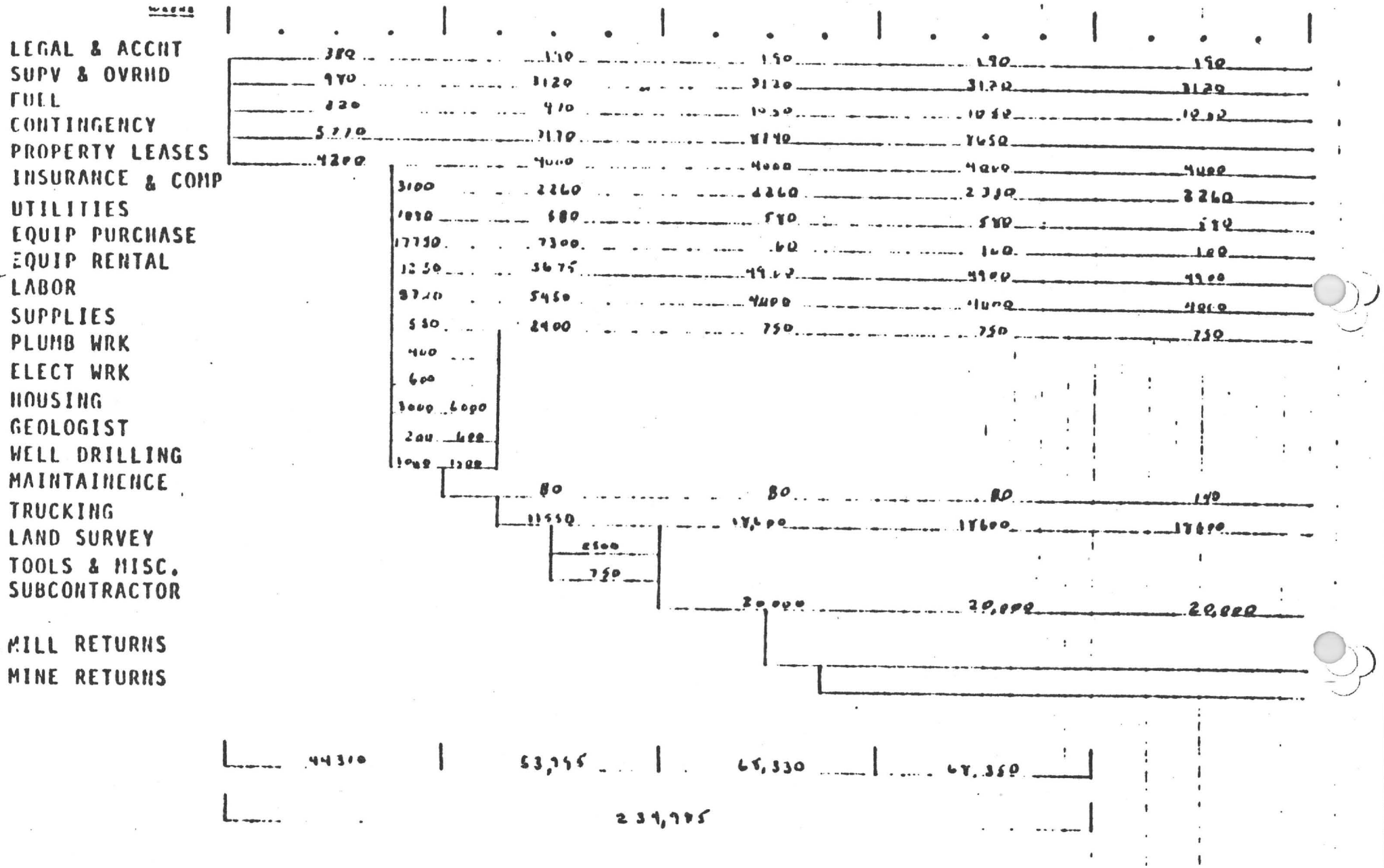


EXHIBIT B

HAYDEN MILL

Recovery Projection

1	2	3	4	5	6	7
Head Ore Silver/oz	85% mill Recovery	Silver @ $4.25/oz. - Per Ton	Daily 24 Hr. Production @ 50 Tons	Monthly Gross	Mill Operating Expenditures	Approximate NET
16	13.60	57.80	2890	80920	16580	64340
17	14.45	61.41	3070	85960		69380
18	15.30	65.03	3251	91028		74448
19	16.15	68.64	3432	96096		79516
20	17.00	72.25	3612	101136		84556
21	17.85	75.86	3793	106204		89624
22	18.70	79.48	3974	111272		94692
23	19.55	83.09	4154	116312		99732
24	20.40	86.70	4335	121380		104800
25	21.25	90.31	4516	126448		109868
26	22.10	93.92	4696	131488		114908
27	22.95	97.53	4876	136528		119948
28	23.80	101.15	5057	141596		125016
29	24.66	104.76	5237	146636		130056
30	25.50	108.37	5418	151704		135124
31	26.35	111.99	5598	156744		140164
32	27.20	115.60	5779	161812		145232
33	28.05	119.21	5959	166852		150272
34	28.90	122.82	6140	171920		155340
35	29.75	126.44	6320	176960		160380

Fili Black Queen

IRON KING ASSAY OFFICE

ASSAY CERTIFICATE

BOX 14 — PHONE 632-7410
HUMBOLDT, ARIZONA 86329

REGISTERED ASSAYER CERTIFICATE NO. 2978 WALTER G. STATLER Date Signed ARIZONA, U.S.A.

ASSAY MADE FOR

CHARLES R. WARD CORP.
4706 E. Alta Vista
Phoenix, Ariz. 85040

March 3, 1976

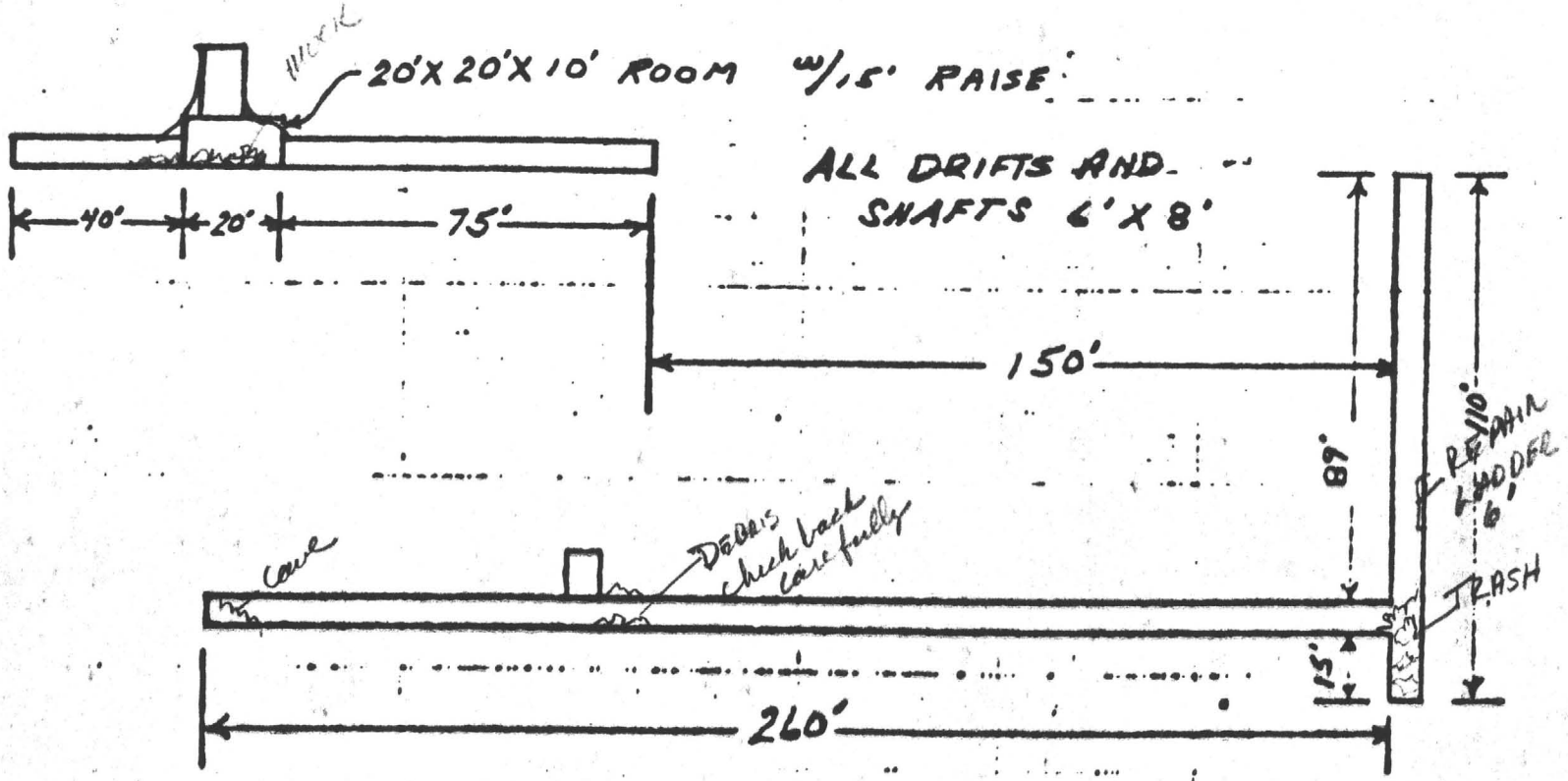
Ref no. DESCRIPTION	oz/ton Au	oz/ton Ag		% Fe	% Pb	% Zn	% Cu
12-11-1, D Queen 20-50, #1 hole #7	.008	0.75	(Before roasting)				
" " "	.020	0.10	(After ")				
12-11-2, Black Queen 20-50, #3 hole 5	Tr	0.40	(Before roasting)				
" " "	.010	0.59	(After ")				
12-11-3 Woods 20-50 #2 hole #5	Tr	0.22	(Before roasting)				
12-11-3 " " "	Tr	Tr	(After ")				
12-11-4 B. Queen 3-5 Sample #2 hole 5	Tr	0.48	(Before roasting)				
" 2 "	T005	Tr	(After "				
12-11-5 Woods 30-5- Sample#3 hole #1	Tr	0.20	(Before roasting)				
" " "	.010	0.59	After "				

Silverado

CHARGES $45.00

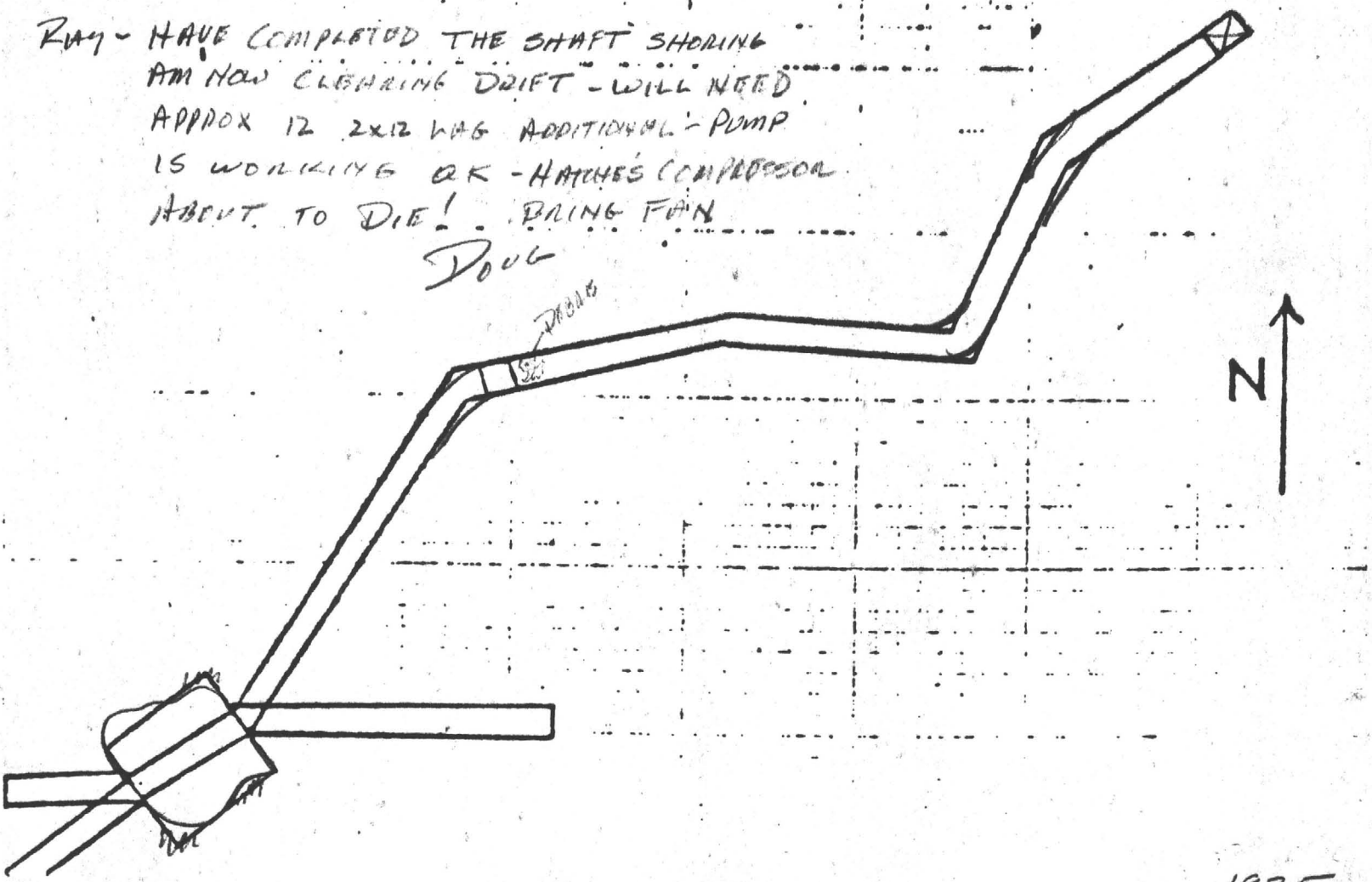
ASSAYER

SILVERADO
UNDERGROUND SKETCH



RAY - HAVE COMPLETED THE SHAFT SHORING AM NOW CLEANING DRIFT - WILL NEED APPROX 12 2x12 MAG ADDITIONAL - PUMP IS WORKING OK - HATCHES COMPRESSOR ABOUT TO DIE! BRING FAN

DOUG



1975

Continental Silver Corp.
315 W. Monterosa
Phoenix, Az.
85013

Statement

D. K. Martin
4728 North 21st Avenue
Phoenix, Arizona 85015

July 10, 1985

Geological reconnaisance and Verification of Vanderwall report -

Sample and assay vein outcrops and supporting structures.

Suggest alternative drilling targets

Arizona State Prospecting Permit #08-96533
N 2 Lot 2, E2W2, Sec 30 T18N, R 14W

Total Balance Due $1,800.00

STRIKE AT ARIZONA BUTTE

KINGMAN—

One of the best strikes of silver ore in the county was made a few days ago in the winze from the tunnel level of the Banner mine of the Arizona Butte property. The ore body was entered at a depth of 50 feet below the tunnel level and about 250 feet below the apex of the vein. The winze was sunk on a good body of lead ore, the average being about 30 ounces silver, $10 gold and 35 per cent lead, when a round of holes disclosed ore that will run into the hundred of ounces in silver and heavy in lead. Specimens from this strike are on exhibition at the offices of the company in Kingman and the shop of M. M. George. These specimens are beautiful wire silver with big masses of native plastered all over the rock. The ore also shows heavily in silver sulphide. The ore body is three feet in widt' and shows every evidence of permanency. The strike was made 1500 feet from the portal of the tunnel and in one of the heaviest mineralized parts of the big vein. Shipments are going out from this part of the property daily, the big truck being unable to handle all the ore that is being produced.

The Arizona Butte has its big tunnel in shape and will have three shifts at work on it by the first of the month. This bore will reach the Banner about 1000 feet below the present depth of that property.

FORCE OF MEN WORKING C. O. D.

A good sized force of men are at work on the C. O. D. mine putting in a new collar set and resetting the hoist and other machinery. The shaft will be pumped out and connection made with the 300 level as soon as possible.

With the opening of the mine to the 300 level it is expected that big bodies of ore will be brought to light. The ore bodies on that level were not extracted, the drift having been run through the ore body a distance of about 1000 feet, and through this body a few raises were carried in the old part of the mine. The hard quartzy part of the vein was allowed to remain without either crosscut or other opening, the management at the time believing it to be too low grade to handle. Later assays were taken from the quartz that gave as high as $90 in gold. Should this part of the vein prove as important as miners who have worked in it believe it to be, the property will be a producer within the next few months.

RICO OPENS GOOD ORE ON 300

The crosscut from the 300 level of the Rico mine to the vein has opened a body of ore five feet in width that is well mineralized. Drifts are being carried along the level on the vein and the ore body will be thoroughly exploited. Samples taken from the vein give excellent results, showing it to have good mill values. The vein is somewhat broken up, due, no doubt, to the heavy movement of the vein and is similar to the C. O. D. in that respect, the Rico being on the same vein or a portion of it.

With further development the Rico should be in a position to supply a good sized concentrating plant with ore.

SINKING WINZE ON THE TWINS MINE

The raise on the Twins mine, of the Daisell company, at Cerbat, has been connected with the shaft and timbered up. The winze is now being sunk below the a connection with the drift on the 300 level. The winze is going down on the ore body and a survey of the lower level will disclose how far the lower drift is away from the ore. It was the failure to locate the ore body on the 300 level that caused the abandonment of the property by the company that was operating it a few years ago, but the working out of the fault system by Superintendent Elickson, makes it possible to now take advantage of the extensive work that was done on the 300 level.

SILVER JACK HITS HIGH GRADE

The old Hibernia mine, which is now in the hands of the Silver Jack Mining company, has been entered by a 200-foot tunnel and a crosscut made to pick up the vein. This crosscut shows that the vein at that point is 10 feet wide and a small streak in it gave values of 1500 ounces silver. The large part of the vein carries big mill values.

In the early life of the Hibernia, which is patented under the name of the locator—the Hope—shipped large tonnage of ore that ran well into the thousands of dollars to the ton. We have seen shipments from the property that gave results of between 3000 and 4000 ounces silver. Part of the vein carries high grade lead ore, Owing to the isolation of the property and the inability to ship the lower grade ores at a profit, the mine has been idle more than 20 years. Now that roads are gradually being built into that country and the cheapening of haulage by the use of trucks, it is possible that ore running 100 ounces may be shipped out profitably. By the opening of the mine a milling plant may be demanded to handle the big low grade bodies of ore that are sure to be opened up.

The mine is being developed under contract, the tunnel to be driven 300 feet by the contractors, which will bring operations close to the old works.

PROGRESS MADE BY CHLORIDE

CHLORIDE—

Superintendent Rhea of the Chloride Queen states that work is progressing very satisfactorily at that mine. Drifting on the 200-foot level has progressed to about 150 feet and every foot now is making greater depth. Ore is now being taken out for shipment and continues to run very high grade. The Chloride Queen is destined to become one of the rich producers in the district. Development work will continue and ore blocked out and the property entirely proven when a mill will be erected capable of treating the ore in the most economical manner.

CONCERNING CHLORIDE

(By Prof. F. C. Smith.)

Chloride, during the past two months, has been much busier in cussing out the hot weather, the H. C. of L. and the railroad strike, which has interrupted mails and supplies, than in opening up any new mines. All of the old ones are pegging away as usual; new people are coming and hunting houses every day, and we have a new newspaper—the Chloride Chronicle—whose advent we hail with applause. It is edited and published by Mr. G. A. Sterling, and in make-up and editorials is far and away ahead of anything in the county. Our former paper, the Herald, was printed in Kingman, and the results were not always satisfactory, but floor of the drift and will be carried to the Chronicle has its own very compl plant, much to its advantage.

Chloride has immediate promise of other new enterprise, in the possible vent of something long needed—a cust mill. This matter has been agitated a number of years, and one or two co panies have been organized for the p pose of installing such a plant; but have been side-tracked by reason of sufficient capitalization, and, very prob bly, by reason of the fact that some p mill installations have failed of efficien for reasons which to financiers, have be more or less obscure. In a nut-shell, the is a splendid opportunity here for a se sible custom mill, with the accent on t word "sensible". There is, primarily, ever-salient need for an outlet for va quantities of "mill ore" which is not sufficient high grade to stand the costs haulage, freights (especially when 50 p cent above normal), smelter charges a deductions, and still yield a profit; wher as, if these ores might be locally conce trated, so as to cut the costs even in t middle, hundreds of mines would take activity which are now idle. No sma 50-ton affair can expect to handle t proposition efficiently; nor can a suf ciently large installation expect to "jum right in" and clean up 100 per ce profits right from the start; for the or are complex, and require the attention real metallurgists (not mill men), durin a period of careful concentration tests a large scale; thus predicating the nece sity for sufficient capital to handle th matter in a business-like way. It is unde stood the new mill is to be financed Washington, D. C., and we may say tha the fact lends additional weight to th proposition, since, if all reports be tru some of our big men down there are wo ried by lack of vault-room for their wa profits. The enterprise will benefit th whole country in another way, very prob ably; since, if it enables some of our fe eral legislators to contract their neck somewhat, and draw their heads below th clouds, to the end that they may see eve a very little of the practical business en (instead of the political end), of the a fairs of the United States, a "much bette time will be had" by all.

DEVELOPMENT AT THE AZTEC

OATMAN—

Development of the vein at the 500-foo level of the Aztec mine of the Tom Ree company at Oatman has disclosed high grade ore and at the same time the vei has widened considerably. The vein is strong one and will materially increase th ore reserves and increase the productio of gold ore from the Tom Reed group. Th mill of the company is now running o ores from the Aztec and Bald Eagle shafts while sinking is in progress at the Re Cloud, where the shaft is down close t the 700-foot point and is to be continue to a depth of 800 feet. The Unite American is sinking with two shifts an making about five feet daily. The shaf is now down about 100 feet, and is equip ped with a modern mine plant. Oatma United is prosecuting development wor at the 600-foot level and Superintende Hammond reports results satisfactory. Th shaft is to be sunk to the 800-foot point Operations have been resumed on the Re ord Lode property and the management crosscutting the ledge at the 500 level t establish values. Sinking has been resum by Superintendent Rogers of the Road Bonanza and the shaft, now

COPY

UNITED STATES SMELTING, REFINING & MINING COMPANY

MIDVALE SMELTER AND MILLS

Downie D. Muir, Jr. General Manager.
W. H. Eardley, Assistant Manager.
E. R. Gibson, Cashier
M. W. Woolley, Ore Buyer

Salt Lake City, Utah

January 9, 1929

Mr. K. C. Pulliam, Jr.
555 Roosevelt Building
Los Angeles, California

Dear Mr. Pulliam:

The sample that you recently forwarded to us has been received and assayed with the results shown on the enclosed certificate.

This sample shows an especially high silver content, and is a very desirable shipping ore. Based upon present metal prices, using 57½¢ for silver this ore would net about $95.25 per ton, f.o.b. the Smelter.

The freight rate from Kingman on direct smelting ores of $100 value is $13 per ton, which would leave $82.25 net after all smelting and freight charges were deducted.

I would suggest that it would be to our mutual advantage to have a contract covering any shipments you might be making, and while it would not obligate you to ship a definite tonnage it would protect you with a favorable rate on any shipments you might make.

The figures above mentioned are arrived at by using a flat maximum treatment charge which we would be willing to incorporate in a contract proposition from that district. If this suggestion meets with your approval we will be very glad to forward papers for your consideration.

Wishing you every success there, we remain

Yours very truly,

(SIGNED) M. W. Woolley.

INSPIRATION CONSOLIDATED COPPER CO.

SMELTING DEPARTMENT

Lot 8677 Shipper Lot 12 DATE June 6, 1967

Shipper of W. H. Russell Date Received May 31, 1967

Address 5821 West Glenrosa City Phoenix, Arizona

CAR Number	WET WEIGHT	Moisture %	DRY WEIGHT
ACC 921	9,640	2.80	9,370

N. Y. QUOTATIONS

Copper (per lb.) 38.182¢

Less 4.854 = 33.332¢

Silver (per oz.) 129.700¢

Gold (per oz.)

ASSAY and ANALYSES	Copper %	Silver Oz.	Gold Oz.	Silica %	Alumina %	Iron %	Lime %	Sulpher %
	.33	20.26	.010	92.4	.8	1.9	.9	Tr.

PAYMENTS PER TON	DEBITS	CREDITS	Valuation For Freight
_____ Lbs. per ton, less ___ % _____ Lbs. at _____ per Lb.	$	$	$
20.26 Ozs. per ton, less 5 % 19.25 Ozs. at 129.700¢ per Oz.		24.97	
_____ Ozs. per ton, less ___ % _____ Ozs. at _____ per Oz.			
Silica Credit 92.4 - 10.8 = 81.6 units @ 8¢		6.53	
Copper Deficiency 10.00# - 6.40# = 3.40# @ 33.332¢	1.13		
Excess Metal Values $24.97 - 15.00 = $9.97 @ 10%	1.00		
Treatment Charge	6.00		
TOTALS	8.13	31.50	
Net Value per ton		23.37	
Net Value for Freight Charges, per wet ton			$

Royalty to be paid to	4.685	Dry tons at $ 23.37	$ 109.49
	Sampling 5.315	tons at $2.00	10.63
	Freight		
	Trucking		
	AMOUNT DUE SHIPPER		98.86
	Less		
	NET AMOUNT DUE SHIPPER		$ 98.86

1,471.72

Correct _____

Approved _____

13   8c

INSPIRATION CONSOLIDATED COPPER CO.
SMELTING DEPARTMENT

Lot 8905   Shipper Lot 13   DATE June 14, 1967

ACCOUNT OF W. H. Russell   Date Received June 5, 1967

5821 West Glenrosa City Phoenix, Arizona

CAR Initial	CAR Number	WET WEIGHT	Moisture %	DRY WEIGHT
ICC	924	9,360	2.80	9,098

QUOTATIONS

Copper (per lb.) 38.1331
Less 4.85¢ = 33.2831
1.7151 less 1½%
Silver (per oz.) $1.69571
Gold (per oz.)

ASSAY and ANALYSES	Copper %	Silver Oz.	Gold Oz.	Silica %	Alumina %	Iron %	Lime %	Sulphur
	.35	17.00	.010	92.4	1.9	1.6	1.2	–

PAYMENTS PER TON

	DEBITS	CREDITS	Valuation For Freight
Copper ... Lbs. per ton, less % ... Lbs. at ... per Lb.	$	$	$
Silver 17.00 Ozs. per ton, less 5 % 16.15 Ozs. at 1.69571¢ per Oz.		27.39	
Gold ... Ozs. per ton, less % ... Ozs. at ... per Oz.			
Silica Credit 92.4 − 21.8 = 70.6 units @ 8¢		5.65	
Copper Deficiency 10.0 lbs. less 7.0 lbs. = 3.0 lbs @ 33.2831	1.00		
Metal Values $27.39 − 15.00 = $12.39 @ 10%	1.24		
Treatment Charge	6.00		
TOTALS	8.24	33.04	
Net Value per ton		24.80	

Net Value for Freight Charges, per wet ton $

Royalty to be paid to

4.547 Dry tons at $ 24.80	$	112.82
Sampling 5.451 tons at $2.00		10.90
Freight		
Trucking		
AMOUNT DUE SHIPPER		101.92
Less % Royalty		
NET AMOUNT DUE SHIPPER	$	101.92

203.8 2/4

Assayer [signature]   Approved [signature]

[illegible]ATION CONSOLIDATED COPPER CO.

SMELTING DEPARTMENT

Lot 8561 Shipper Lot 10 DATE May 17, 1967

[illegible] OF W. N. Russell Date Received May 9 1967

921 W. Glenrosa City Phoenix, Arizona

Number	WET WEIGHT	Moisture %	DRY WEIGHT
924	16,300	4.00	15,648

N. Y. QUOTATIONS

Copper (per lb.) 38.170¢

Less 4.85¢ = 33.320¢

Silver (per oz.) 128.900¢

Gold (per oz.)

	Copper %	Silver Oz.	Gold Oz.	Silica %	Alumina %	Iron %	Lime %	Sulphur %
[illegible]ES	.32	19.56	.020	92.0	1.4	1.1	.9	.2

PAYMENTS PER TON

	DEBITS	CREDITS	Valuation For Freight
[illegible] Lbs. per ton, less [illegible] % [illegible] Lbs. at [illegible] per Lb.	$	$	$
19.56 Ozs. per ton, less 5 % 18.58 Ozs. at 128.900¢ per Oz.		23.95	
[illegible] Ozs. per ton, less [illegible] % [illegible] Ozs. at [illegible] per Oz.			
Silver Credit 92.0 - 16.0 = 76.0 units @ 8¢		6.03	
Copper Deficiency 10.00 lbs - 6.40 lbs = 3.60 lbs. @ 33.320¢	1.20		
[illegible] Value $23.95 - 15.00 = $8.95 @ 10%	.90		
Treatment Charge	6.00		
TOTALS	8.10	30.03	
Net Value per ton		21.93	

Net Value for Freight Charges, per wet ton $

[illegible] to be paid to

	7.824 Dry tons at $ 21.93	$	171.58
Sampling	2.176 tons at $2.00		4.35
Freight			
Trucking			
AMOUNT DUE SHIPPER			167.23
Less			
NET AMOUNT DUE SHIPPER		$	167.23

[illegible]

Approved [illegible]

ASSAY CERTIFICATE

SMITH - EMERY COMPANY.
Assayers Metallurgical Engineers
Los Angeles, California.

M. S. Rogers,
225 Mills Building,
San Francisco, California.

Gold @ $20.67 per oz.
Silver @ .50 per oz.

December 19, 1929

		Silver		Lead
		Oz.	Value	
115503	(No Mark)	2.00	$ 1.00	None
115504	1-A	452.70	226.35	None
115505	2-A	113.00	56.50	None
115506	2-B	261.60	130.80	None
115507	2-C	8.64.	4.32	None
115508	3	.30	.15	None
115509	3-A	26.80	13.40	None
115510	4	.40	.20	None

SIGNED,
SMITH - EMERY COMPANY

ASSAY CERTIFICATE

Silverado Mine
Kingman, Arizona

Beaverstock & Payne
552 South Figueroa St.
Los Angeles, California

A COMPLETE ANALYTICAL TESTING LABORATORY

No. 3720
Dec. 20, 1928

	Gold per Ton Oz. Troy	Gold per Ton Value	Silver per Ton Oz. Troy	Silver per Ton Value
No. 3720 High-grade streak			457.1	$260.55
No. 3708 Bromides	.08	$1.65	253.3	144.40

Gold @ 20.67
Silver @ .57

SIGNED,
Beaverstock & Payne.

ARIZONA TESTING LABORATORIES
A DIVISION OF CLAUDE E. McLEAN & SON LABORATORIES, INC.
PHONE 254-6181 817 WEST MADISON ST. P. O. BOX 1888 PHOENIX 85001

Chemists . . . Engineers

For: Mr. Buddy Hale
2836 West Camelback
Phoenix, Arizona

Date: June 30, 1966

Lab. No.: C-718

Sample: ORe

Marked: No Mark

Received: ----

Submitted by: Same

Report of Laboratory Tests

REPORT OF QUALITATIVE SPECTROGRAPHIC EXAMINATION

Element	Approximate Percent
Boron	0.006
Silicon	Major Constituent
Aluminum	3.0
Manganese	0.02
Magnesium	0.3
Lead	0.3
Iron	1.0
Calcium	0.5
Copper	0.5
Silver	0.5
Titanium	0.08

Respectfully submitted,

ARIZONA TESTING LABORATORIES

Claude E. McLean, Jr.

ARIZONA TESTING LABORATORIES

A DIVISION OF CLAUDE E. McLEAN & SON LABORATORIES, INC.

PHONE 254-6181 817 WEST MADISON ST. P. O. BOX 1888 PHOENIX 85001

Chemist . . . Engineers

For Mr. Buddy Hale
2836 West Camelback Road
Phoenix, Arizona

Date May 1, 1967

Sample of Ore

Received: ---

Submitted by: Same

ASSAY CERTIFICATE

Gold figured at $ 35.00 per ounce

Silver figured at $ 1.29 per ounce

LAB. NO.	IDENTIFICATION	GOLD		SILVER		PERCENTAGES	
		OZ. PER TON	VALUE	OZ. PER TON	VALUE	COPPER	
1353	No Mark	0.18	$6.30	246.60	$318.11	1.45%	

Respectfully submitted,

ARIZONA TESTING LABORATORIES

Claude E. McLean, Jr.

ARIZONA TESTING LABORATORIES

A DIVISION OF CLAUDE E. McLEAN & SON LABORATORIES, INC.

PHONE 254-6181 817 WEST MADISON ST. P. O. BOX 1888 PHOENIX 85001

Chemist . . . Engineers

For Russell Construction Company
5821 West Glenrosa
Phoenix, Arizona 85031

Date July 14, 1966

Sample of Ore

Received: 7-13-66

Submitted by: Same

ASSAY CERTIFICATE

Gold figured at $ 35.00 per ounce

Silver figured at $ 1.29 per ounce

LAB. NO.	IDENTIFICATION	GOLD		SILVER		PERCENTAGES	
		OZ. PER TON	VALUE	OZ. PER TON	VALUE		
754	No Mark MAIN DRIFT			11.60	$14.96		

Respectfully submitted,

ARIZONA TESTING LABORATORIES

Claude E. McLean, Jr.

ARIZONA TESTING LABORATORIES

A DIVISION OF CLAUDE E. McLEAN & SON LABORATORIES, INC.

PHONE 254-6181 817 WEST MADISON ST. P. O. BOX 1888 PHOENIX 85001

Chemist . . . Engineers

20

For Russell Construction Company
5821 West Glenrosa
Phoenix, Arizona

Date February 16, 1965

Sample of Ore

Received: 2-15-65

Submitted by: Same

ASSAY CERTIFICATE

Gold figured at $ 35.00 per ounce

Silver figured at $ 1.29 per ounce

LAB. NO.	IDENTIFICATION	GOLD		SILVER		PERCENTAGES	
		OZ. PER TON	VALUE	OZ. PER TON	VALUE		
158965				18.40	$23.74		
158966				9.60	12.38		
158967				17.60	22.70		
158968				752.80	971.11		

REGISTERED ASSAYER
CERTIFICATE EXPIRES
CLAUDE E. McLEAN
DEC. 31, 1965
ARIZONA, U.S.A.

Respectfully submitted,

ARIZONA TESTING LABORATORIES

Claude E. McLean

ARIZONA TESTING LABORATORIES

A DIVISION OF CLAUDE E. McLEAN & SON LABORATORIES, INC.
PHONE 254-6181 817 WEST MADISON ST. P. O. BOX 1888 PHOENIX 85001

Chemists - Engineers

For Mr. Buddy Hale Date May 9, 1967

Sample of Ore Received: ----

Submitted by: Same

ASSAY CERTIFICATE

Gold figured at $ 35.00 per ounce Silver figured at $ 1.29 per ounce

LAB. NO.	IDENTIFICATION	GOLD		SILVER		PERCENTAGES	
		OZ. PER TON	VALUE	OZ. PER TON	VALUE	COPPER	
1381	Sample #1	0.02	$0.70	111.80	$144.22	0.85 %	
	Sample #2	Nil		2.10	$ 2.71	Nil	

Lbs.

Respectfully submitted,

ARIZONA TESTING LABORATORIES

Claude E McLean

Claude E. McLean, Jr.

ASSAY CERTIFICATE

SMITH - EMERY COMPANY.
Assayers Metallurgical Engineers
Los Angeles, California.

M. S. Rogers,
225 Mills Building,
San Francisco, California.

Gold @ $20.67 per oz.
Silver @ .50 per oz.

December 19, 1929

		Silver		Lead
		Oz.	Value	
115503	(No Mark)	2.00	$ 1.00	None
115504	1-A	452.70	226.35	None
115505	2-A	113.00	56.50	None
115506	2-B	261.60	130.80	None
115507	2-C	8.64.	4.32	None
115508	3	.30	.15	None
115509	3-A	26.80	13.40	None
115510	4	.40	.20	None

SIGNED,
SMITH - EMERY COMPANY

ASSAY CERTIFICATE

Silverado Mine
Kingman, Arizona

Beaverstock & Payne
552 South Figueroa St.
Los Angeles, California

A COMPLETE ANALYTICAL TESTING LABORATORY

No. 3720
Dec. 20, 1928

	Gold per Ton		Silver per Ton	
	Oz. Troy	Value	Oz. Troy	Value
No. 3720 High-grade streak			457.1	$260.55
No. 3708 Bromides	.08	$1.65	253.3	144.40

Gold @ 20.67
Silver @ .57

SIGNED,
Beaverstock & Payne.

Shop No. 1756
File No. 1318 RU

Date 8 DEC 1965

VALUES
Latest Quotation

1 oz. Gold.....
1 oz. Silver.....
1 lb. Copper.....
1 lb. Lead.....
1 lb. Zinc.....

THIS CERTIFIES
Samples submitted for assay contain as follows:

Arizona Assay Office

815 NORTH FIRST STREET
Phone: 253-4001

Phoenix, Arizona 85001
P. O. BOX 1148

MR. W. H. RUSSELL
5821 W. GLENROSA
PHOENIX ARIZONA

Short Ton ..... 2000 Lbs.
Short Ton Unit ..... 20 Lbs.
Long Ton ..... 2240 Lbs
Long Ton Unit ..... 22.4 Lbs.

MARKS	SILVER PER TON Ozs.	Tenths	VALUE PER TON	GOLD PER TON Ozs.	100ths	VALUE PER TON	TOTAL VALUE PER TON of Gold & Silver	PERCENTAGE	REMARKS
SURFACE CUTS #1 (wet)	34	.1	$42.62						SUGAR QUARTZ
#2 BLUE	1	.1	$1.37						

REGISTERED ASSAYER
CERTIFICATE EXPIRES
DEC 31 19 66
JACK E. A. STONE

Charges $ 5.00 PAID

Assayer ..... JACK STONE REG. No. 5479

ANDY CHUKA, PRINT

Shop No. 1743
File No. 1199 HA

Date 18 DEC 1965

VALUES
Latest Quotation
1 oz. Gold.....
1 oz. Silver.....
1 lb. Copper.....
1 lb. Lead.....
1 lb. Zinc.....

THIS CERTIFIES
Samples submitted for assay contain as follows:

Arizona Assay Office

815 NORTH FIRST STREET
Phone: 253-4001

Phoenix, Arizona 85001
P. O. BOX 1148

MR. N. T. HATCH
5821 W. GLENROSA
PHOENIX

Short Ton ..... 2000 Lbs.
Short Ton Unit ..... 20 Lbs.
Long Ton ..... 2240 Lbs.
Long Ton Unit ..... 22.4 Lbs.

MARKS	SILVER PER TON Ozs.	SILVER PER TON Tenths	VALUE PER TON	GOLD PER TON Ozs.	GOLD PER TON 100ths	VALUE PER TON	TOTAL VALUE PER TON of Gold & Silver	PERCENTAGE COPPER	REMARKS
DIKE VEINS #1	9	1	$11.37					0.05	
#2	260	4	$325.50					3.24	
#3	186	4	$233.00					1.50	
#4	42	8	$ 53.50					0.18	
#5	90	0	$112.50					0.47	
#6		4	$ .50					0.015	

REGISTERED ASSAYER
CERTIFICATE EXPIRES
JACK E. A. STONE
31 19

Charges $ 30.00

Assayer .....

JACK STONE REG. No. 5479

ANDY CHUKA, PRINT

Shop No. 1738 Date 3 DEC 1965

File No. 1199 Ha

VALUES
Latest Quotation

1 oz. Gold.....
1 oz. Silver.....
1 lb. Copper.....
1 lb. Lead.....
1 lb. Zinc.....

THIS CERTIFIES
Samples submitted for assay contain as follows:

Arizona Assay Office

815 NORTH FIRST STREET
Phone: 253-4001

Phoenix, Arizona 85001
P. O. BOX 1148

MR. R. T. HATCH
3910 W. INDIAN SCHOOL ROAD
PHOENIX

Short Ton ..... 2000 Lbs.
Short Ton Unit ..... 20 Lbs.
Long Ton ..... 2240 Lbs.
Long Ton Unit ..... 22.4 Lbs.

MARKS	SILVER PER TON Ozs.	SILVER PER TON Tenths	VALUE PER TON	GOLD PER TON Ozs.	GOLD PER TON 100ths	VALUE PER TON	TOTAL VALUE PER TON of Gold & Silver	PERCENTAGE	REMARKS
NUGGET 20 Pounds	18,	100.0	$22,525.00						

REGISTERED ASSAYER
CERTIFICATE EXPIRES
DEC 31 1966
JACK E. A. STONE
ARIZONA U.S.A.

Charges $ PAID.

Assayer.....
JACK STONE REG. No. 5479

ANDY CHUKA, PRINT

Shop No. 700H
File No. 1154 HA

Date 7 DEC 1964

VALUES
Latest Quotation

1 oz. Gold.....
1 oz. Silver.....
1 lb. Copper.....
1 lb. Lead.....
1 lb. Zinc.....

THIS CERTIFIES
Samples submitted for assay contain as follows:

Arizona Assay Office

815 NORTH FIRST STREET
Phone: 253-4001

MR. R. T. HATCH

Phoenix, Arizona 85001
P. O. BOX 1148

Short Ton ..... 2000 Lbs.
Short Ton Unit ..... 20 Lbs.
Long Ton ..... 2240 Lbs.
Long Ton Unit ..... 22.4 Lbs.

MARKS	SILVER PER TON Ozs.	SILVER PER TON Tenths	VALUE PER TON	GOLD PER TON Ozs.	GOLD PER TON 100ths	VALUE PER TON	TOTAL VALUE PER TON of Gold & Silver	% PERCENTAGE COPPER	REMARKS
SURFACE	236	.6	$295.75	.05		$1.75		0.40	

Charges $ 5.50 PAID.

Assayer Jack Stone

ANDY CHUKA, PRINT

JACK STONE REG. NO. 3479

8115

Shop No. 1942 H A

File No.

Date 24 AUG 1966

Arizona Assay Office

815 NORTH FIRST STREET

Phone: 253-4001

Phoenix, Arizona 85001
P. O. BOX 1148

VALUES
Latest Quotation

1 oz. Gold.....
1 oz. Silver.....
1 lb. Copper.....
1 lb. Lead.....
1 lb. Zinc.....

THIS CERTIFIES
Samples submitted for assay contain as follows:

MR. R. T. HATCH

Short Ton ..... 2000 Lbs.
Short Ton Unit ..... 20 Lbs.
Long Ton ..... 2240 Lbs
Long Ton Unit ..... 22.4 Lbs.

MARKS	SILVER PER TON Ozs.	SILVER PER TON Tenths	VALUE PER TON	GOLD PER TON Ozs.	GOLD PER TON 100ths	VALUE PER TON	TOTAL VALUE PER TON of Gold & Silver	PERCENTAGE	REMARKS
MAIN DRIFT	32.5		$40.62						

Charges $ 8.50 PAID

Assayer Jack Stone

JACK STONE REG. NO. 6479

ANDY CHUKA, PRINT

ARIZONA TESTING LABORATORIES

A DIVISION OF CLAUDE E. McLEAN & SON LABORATORIES, INC.

PHONE 254-6181 817 WEST MADISON ST. P. O. BOX 1888 PHOENIX 85001

Chemist . . . Engineers

For Russell Construction Company
5821 West Glenrosa
Phoenix, Arizona

Date March 9, 1965

Sample of Ore

Received: 3-8-65

Submitted by: Same

ASSAY CERTIFICATE

Gold figured at $ 35.00 per ounce

Silver figured at $ 1.29 per ounce

LAB. NO.	IDENTIFICATION	GOLD		SILVER		PERCENTAGES	
		OZ. PER TON	VALUE	OZ. PER TON	VALUE		
159051	#1			4.20	$ 5.42		
159052	#2			10.40	$13.42		

REGISTERED ASSAYER
CERTIFICATE EXPIRES
CLAUDE E. McLEAN
DEC. 31, 1965
ARIZONA, U.S.A.

Respectfully submitted,

ARIZONA TESTING LABORATORIES

Claude E. McLean

ARIZONA TESTING LABORATORIES

A DIVISION OF CLAUDE E. McLEAN & SON LABORATORIES, INC.

PHONE 254-6181 817 WEST MADISON ST. P. O. BOX 1888 PHENIX 85001

Chemist . . . Engineers

For Russell Construction Company
5821 West Glenrosa
Phoenix, Arizona

Date February 8, 1966

Sample of Ore

Received: 2-7-66

Submitted by: -----

ASSAY CERTIFICATE

Gold figured at $ 35.00 per ounce

Silver figured at $ 1.29 per ounce

LAB. NO.	IDENTIFICATION	GOLD		SILVER		PERCENTAGES	
		OZ. PER TON	VALUE	OZ. PER TON	VALUE		
156403	Blue Sample SHAFT, MAIN			16.40	$21.16		
	Green Sample			6.60	$ 8.51		

Respectfully submitted,

ARIZONA TESTING LABORATORIES

Claude E. McLean, Jr.

ARIZONA TESTING LABORATORIES

A DIVISION OF CLAUDE E. McLEAN & SON LABORATORIES, INC.

PHONE 254-6181 817 WEST MADISON ST. P. O. BOX 1888 PHOENIX 85001

Chemist . . . Engineers

For **Russell Construction Company**
5821 West Glenrosa
Phoenix, Arizona

Date **March 1, 1965**

Sample of **Ore**

Received: **3-1-65**

Submitted by: **Same**

ASSAY CERTIFICATE

Gold figured at $ **35.00** per ounce

Silver figured at $ **1.29** per ounce

LAB. NO.	IDENTIFICATION	GOLD		SILVER		PERCENTAGES	
		OZ. PER TON	VALUE	OZ. PER TON	VALUE		
158994	#1			74.80	$96.49		
158995	#2			10.40	$13.42		
158996	#3			15.80	$20.38		

REGISTERED ASSAYER
CERTIFICATE EXPIRES
CLAUDE E.
McLEAN
DEC. 31, 1965
ARIZONA, U.S.A.

Lbs.

Respectfully submitted,

ARIZONA TESTING LABORATORIES

Claude E. McLean

Claude E. McLean

ARIZONA TESTING LABORATORIES

A DIVISION OF CLAUDE E. McLEAN & SON LABORATORIES, INC.
PHONE 254-6181 817 WEST MADISON ST. P. O. BOX 1888 PHOENIX 85001

Chemists - Engineers

Mr. Buddy Hale
For 2836 West Camelback Road
Phoenix, Arizona

Date May 9, 1966

Sample of Ore

Received: ---

Submitted by: Same

ASSAY CERTIFICATE

Gold figured at $ 35.00 per ounce

Silver figured at $ 1.29 per ounce

LAB. NO.	IDENTIFICATION	GOLD		SILVER		PERCENTAGES	
		OZ. PER TON	VALUE	OZ. PER TON	VALUE	PLATINUM	
610	No Mark	0.08	$2.80	866.80	$1,118.17	Nil	

Respectfully submitted,

ARIZONA TESTING LABORATORIES

Claude E. McLean

Claude E. McLean, Jr.

ARIZONA TESTING LABORATORIES

A DIVISION OF CLAUDE E. McLEAN & SON LABORATORIES, INC.

PHONE 254-6181 817 WEST MADISON ST. P. O. BOX 1888 PHOENIX 85001

Chemist . . . Engineers

For Russell Construction Company
5821 West Glenrosa
Phoenix, Arizona

Date March 1, 1965

Sample of Ore

Received: 3-1-65

Submitted by: Same

ASSAY CERTIFICATE

Gold figured at $ 35.00 per ounce

Silver figured at $ 1.29 per ounce

LAB. NO.	IDENTIFICATION	GOLD		SILVER		PERCENTAGES	
		OZ. PER TON	VALUE	OZ. PER TON	VALUE		
158994	#1			74.80	$96.49		
158995	#2			10.40	$13.42		
158996	#3			15.80	$20.38		

REGISTERED ASSAYER
CERTIFICATE EXPIRES
CLAUDE E. McLEAN
DEC. 31, 1965
ARIZONA, U.S.A.

Respectfully submitted,

ARIZONA TESTING LABORATORIES

Claude E. McLean

ARIZONA TESTING LABORATORIES

A DIVISION OF CLAUDE E. McLEAN & SON LABORATORIES, INC.

PHONE 254-6181 817 WEST MADISON ST. P. O. BOX 1888 PHOENIX 85001

Chemist . . . Engineers

For Russell Constructáon Company
5821 West Glenrosa
Phoenix, Arizona 85031

Date July 14, 1966

Sample of Ore

Received: 7-13-66

Submitted by: Same

ASSAY CERTIFICATE

Gold figured at $ 35.00 per ounce

Silver figured at $ 1.29 per ounce

LAB. NO.	IDENTIFICATION	GOLD		SILVER		PERCENTAGES	
		OZ. PER TON	VALUE	OZ. PER TON	VALUE		
754	No Mark MAIN DRIFT			11.60	$14.96		

Respectfully submitted,

ARIZONA TESTING LABORATORIES

Claude E. McLean, Jr.

ARIZONA TESTING LABORATORIES

A DIVISION OF CLAUDE E. McLEAN & SON LABORATORIES, INC.
PHONE 254-6181 817 WEST MADISON ST. P. O. BOX 1888 PHOENIX 85001

Chemist . . . Engineers

For Mr. Buddy Hale
2836 West Camelback Road
Phoenix, Arizona

Date May 1, 1967

Sample of Ore

Received: ---

Submitted by: Same

ASSAY CERTIFICATE

Gold figured at $ 35.00 per ounce

Silver figured at $ 1.29 per ounce

LAB. NO.	IDENTIFICATION	GOLD		SILVER		PERCENTAGES	
		OZ. PER TON	VALUE	OZ. PER TON	VALUE	COPPER	
1353	No Mark	0.18	$6.30	246.60	$318.11	1.45%	

Respectfully submitted,

ARIZONA TESTING LABORATORIES

Claude E. McLean, Jr.

ARIZONA TESTING LABORATORIES

A DIVISION OF CLAUDE E. McLEAN & SON LABORATORIES, INC.
PHONE 254-6181 817 WEST MADISON ST. P. O. BOX 1888 PHOENIX 85001

Chemists . . . Engineers

For Royce T. Hatch Fence Company
Mr. Royce Hatch
3910 West Indian School Road
Phoenix, Arizona

Date October 8, 1964

Sample of Ore

Received: ~~10-7-64~~

Submitted by: Same

ASSAY CERTIFICATE

Gold figured at $ 35.00 per ounce

Silver figured at $ 1.29 per ounce

LAB. NO.	IDENTIFICATION	GOLD		SILVER		PERCENTAGES	
		OZ. PER TON	VALUE	OZ. PER TON	VALUE	COPPER	MOLYBDENUM
158205	No Mark TOP of OLD RAISE	0.01	$0.35	986.40	$1272.45	2.90	Nil

REGISTERED ASSAYER
CERTIFICATE EXPIRES
CLAUDE E. McLEAN
DEC. 31, 196[illegible]
ARIZONA, U.S.A.

Respectfully submitted,

ARIZONA TESTING LABORATORIES

Claude E. McLean

ARIZONA TESTING LABORATORIES

A DIVISION OF CLAUDE E. McLEAN & SON LABORATORIES, INC.

PHONE 254-6181 817 WEST MADISON ST. P. O. BOX 1888 PHOENIX 85001

Chemist . . . Engineers

For Mr. Buddy Hale
Citizens Realty & Trust Company
2836 West Camelback Road
Phoenix, Arizona

Date June 7, 1966

Sample of Ore

Received: ----

Submitted by: Same

ASSAY CERTIFICATE

Gold figured at $ 35.00 per ounce

Silver figured at $ 1.29 per ounce

LAB. NO.	IDENTIFICATION	GOLD		SILVER		PERCENTAGES	
		OZ. PER TON	VALUE	OZ. PER TON	VALUE		
679	No Mark Main Drift			10.60	$13.67		

Respectfully submitted,

ARIZONA TESTING LABORATORIES

Claude E. McLean, Jr.

ARIZONA TESTING LABORATORIES

A DIVISION OF CLAUDE E. McLEAN & SON LABORATORIES, INC.

PHONE 254-6181 817 WEST MADISON ST. P. O. BOX 1888 PHOENIX 85001

Chemist . . . Engineers

For Mr. Royce Hatch
3910 West Indian School Rd.
Phoenix, Arizona

Date October 13, 1964

Sample of Ore

Received: October 12, 1964

Submitted by: Same

ASSAY CERTIFICATE

Gold figured at $ per ounce

Silver figured at $ 1.29 per ounce

LAB. NO.	IDENTIFICATION	GOLD		SILVER		PERCENTAGES	
		OZ. PER TON	VALUE	OZ. PER TON	VALUE	Copper	
158209	#1 General Area			6.20	7.99	0.20	
158210	#2			108.80	140.35	0.45	
158211	#3			.20	0.26	0.15	

REGISTERED ASSAYER
CERTIFICATE EXPIRES
CLAUDE E. McLEAN
DEC. 31, 1964
ARIZONA, U.S.A.

Respectfully submitted,

ARIZONA TESTING LABORATORIES

Claude E. McLean Jr.