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09/30/85

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: SILVER BUTTON #1-4, LODE

ALTERNATE NAMES:

YAVAPAI COUNTY MILS NUMBER: 1306

LOCATION: TOWNSHIP 14 N RANGE 3 W SECTION 33 QTR. S 1/2

LATITUDE: LONGITUDE:

TOPO MAP NAME: IRON SPRINGS - 7.5 MIN

CURRENT STATUS: ~~UNKNOWN~~ DEVEL DEPOSIT

COMMODITY:

~~UNKNOWN~~ SILVER

BIBLIOGRAPHY:

ADMMR SILVER BUTTON #1-4, LODE FILE

v 2706

29

28

x 6194

NATIONAL

CONTOUR
5884

6220

6570

SILVER BATTON
CLAIM GROUP

34

Sugarloaf
Mtn

32

33

OLD MILL
SITE

NEW MILL

SITE,
600x400,
5 1/2 ACRES

Willow

6649

TRAIL

West Spruce
Mtn

Porter
Mountain

MINE TUNNEL
SITES

37

3

S I E R R A

Copper

Wash

6700

6720

9

incl

SILVER BUTTON MINE

2/84

YAVAPAI COUNTY

T14N R3W Sec 33 S $\frac{1}{2}$

T13N R3W Sec 4 N $\frac{1}{2}$

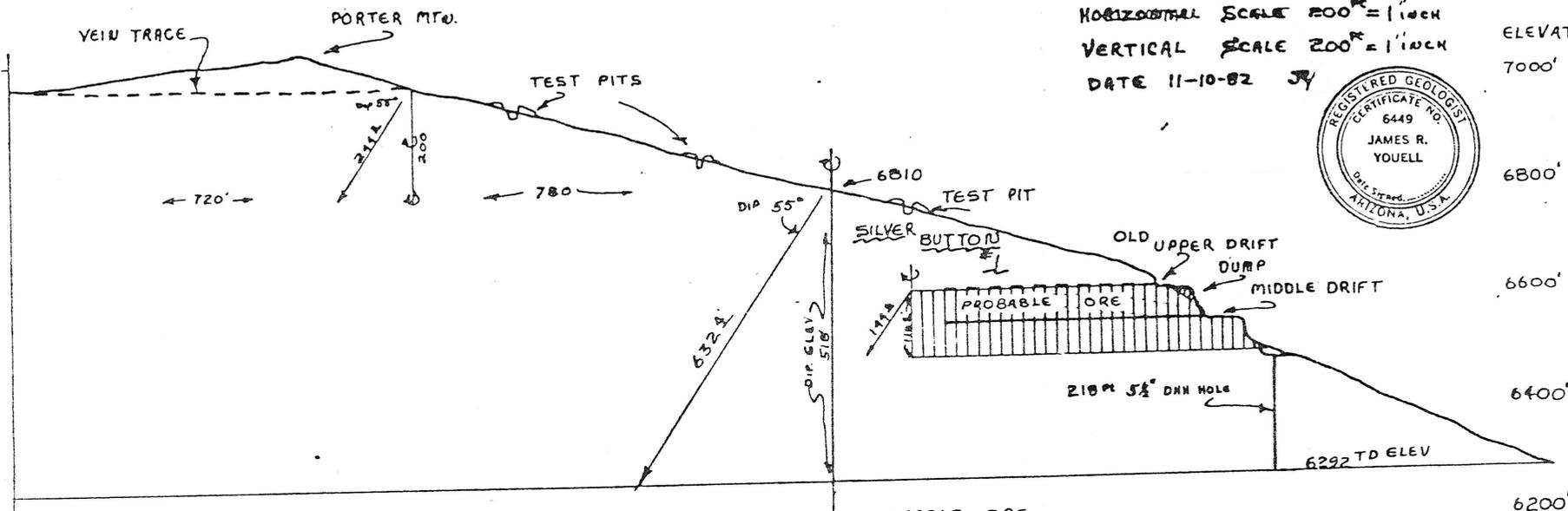
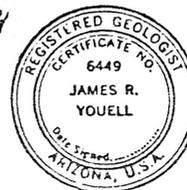
INCLUDES THE SILVER BUTTON #1-#4 and the J-J Claims #1-#2

MILS # 1306, #1307

ORE ESTIMATES SILVER BUTTON SHEAR VEIN

HORIZONTAL SCALE 200' = 1" inch
 VERTICAL SCALE 200' = 1" inch
 DATE 11-10-82 JY

ELEVATION
 7000'
 6800'
 6600'
 6400'
 6200'



POSSIBLE ORE

$$\frac{244 \frac{1}{2} \times 720 \times 2.5 \times 171 \frac{1}{2} \text{ Ft}^3}{2000} = 37582 \frac{1}{2} \text{ TONS}$$

$$\frac{244 \frac{1}{2} \times 780 \times 2.5 \times 171 \frac{1}{2} \text{ Ft}^3}{2000} = 20357 \frac{1}{2} \text{ TONS}$$

$$\frac{632 \frac{1}{2} \times 1500 \times 2.5 \times 171 \frac{1}{2} \text{ Ft}^3}{2000} = 202763 \frac{1}{2} \text{ TONS}$$

PROBABLE ORE

$$\frac{144 \frac{1}{2} \times 560 \times 2.5 \times 171 \frac{1}{2} \text{ Ft}^3}{2000} = 17308 \frac{1}{2} \text{ TONS}$$

POSSIBLE ORE

$$\frac{632 \frac{1}{2} \times 1300 \times 2.5 \times 171 \frac{1}{2} \text{ Ft}^3}{2000} = 27864 \frac{1}{2} - 17308 \frac{1}{2} = 10556 \frac{1}{2} \text{ TONS}$$

ESTIMATE FROM THE SILVER BUTTON VEIN

12-81
SY

$$\frac{1.3 \left(\frac{3000 \times 488}{2} \right) 185^{\#}}{2000^{\#}} = 88,023 \text{ TON}$$

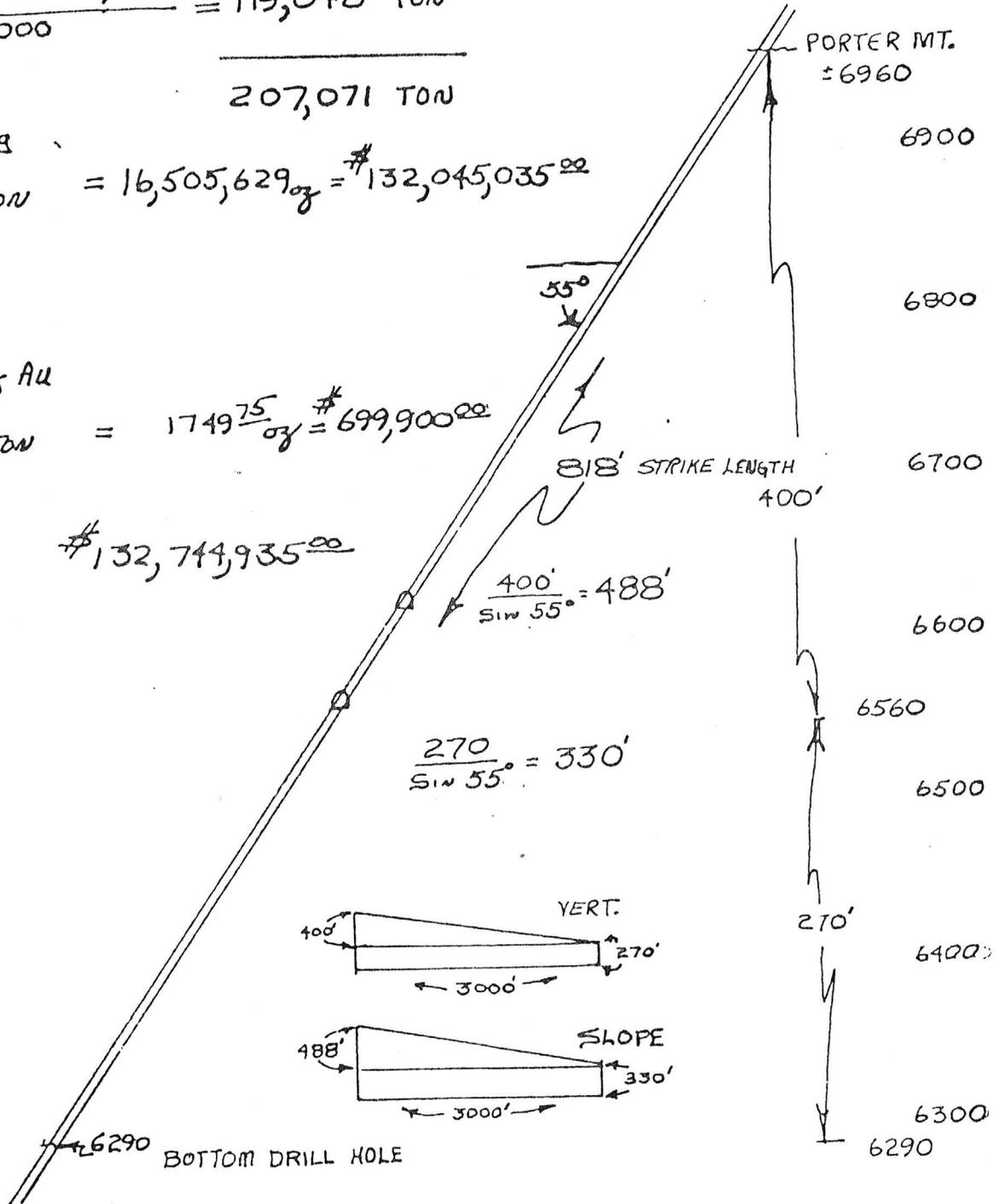
$$\frac{1.3 \left(\frac{3000 \times 330}{2} \right) 185^{\#}}{2000} = 119,048 \text{ TON}$$

207,071 TON

$$\begin{aligned} & \$8^{\#}/\text{oz Ag} \\ & @ 79.71/\text{TON} = 16,505,629^{\#} = \$132,045,035^{\#} \end{aligned}$$

$$\begin{aligned} & \$400^{\#}/\text{oz Au} \\ & @ .00845/\text{TON} = 1749^{\#}/\text{oz} = \$699,900^{\#} \end{aligned}$$

TOTAL $\$132,744,935^{\#}$



ELEV.
7000
6900
6800
6700
6600
6500
6400
6300
6290

PORTER MT.
= 6960

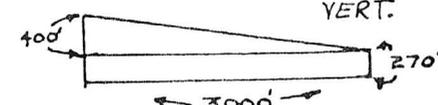
55°

818' STRIKE LENGTH
400'

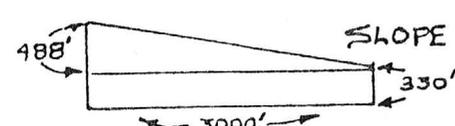
$$\frac{400'}{\sin 55^\circ} = 488'$$

$$\frac{270}{\sin 55^\circ} = 330'$$

VERT.



SLOPE



BOTTOM DRILL HOLE

ESTIMATES FROM THE
DUMPS AT
VARIOUS
LOCATIONS

12-81 $\frac{3}{2}$

<u>LOCATION</u>	<u>TONS</u>	<u>oz/Ton</u>	<u>oz Ag</u>	<u>\$@8⁰⁰/_{oz}</u>
SILVER BUTTON				
MIDDLE DRIFT	200 TON	30.	6000.	48000 ⁰⁰
UPPER DRIFT	800 TON	20.	16,000.	128000 ⁰⁰
MILL SITE STOCKPILE	200 TON	79.	15,800.	126400 ⁰⁰
J+J 1,2,3 OLD DUMPS	100 TON	20.	2,000.	16000 ⁰⁰
J+J 16,18,19 OLD DUMPS	1000 TON	20.	20,000.	160000 ⁰⁰
TOTALS	<u>2300 TON</u>		<u>59,800⁰⁰</u>	<u>\$478,400⁰⁰</u>

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Silver Button Update

The next step in development of the middle drift, which is the 6560 foot level is to stope some fifty feet to the upper drift so that an alternate emergency exit and ventilation passage is provided.

The ore in the invert can be used as mill feed when the proposed exit is completed. Further development will be to crosscut on the left rib to pick up the faulted vein. The surface indications as well as mineral drag indicates a displacement of the vein five to fifteen feet south and east. Surface indications from prospect pits imply the vein can be followed for about 3,000 feet. The Silver Button vein is exposed at an elevation of nearly 6900 feet on Porter Mountain.

Vertical down hole hammer drilling to a total depth of 225 feet was performed by Universal Drilling from Yarnell. A five and one-half inch diameter hole was carried to total depth. Black-dark grey, mineralized shear zone was encountered between 175-220 feet below collar. An aquifer was also encountered which is under artesian pressure. It presently flows at two to three gallons per minute from the drill hole.

The significance of this drill hole is that verification of vein continuity is maintained at this distance down dip. It also implies that ore reserve estimates can carry more credibility to aim somewhat beyond this depth. No attempt has been made to establish grade of ore from cutting samples inasmuch as the character of the soft argentite and galena will tend to contaminate the interval and give false high grade readings. Samples were collected and saved.

1. The zone of fracture was as predicted following the 55 degree dip of the ore vein.
2. The zone was somewhat thicker at this distance down dip (350 feet) at 6290 feet elevation. (the middle drift is 6560 elevation).
3. Water was found in sufficient quantities (pump air lift - 10 GPM) to provide mill and mine requirements for the near future.
4. Mine support requirements will be minimal due to the solid country rock over the vein system.
5. Probable ore values will meet or exceed the projected values from the 6560 level, the middle drift on the Silver Button vein.

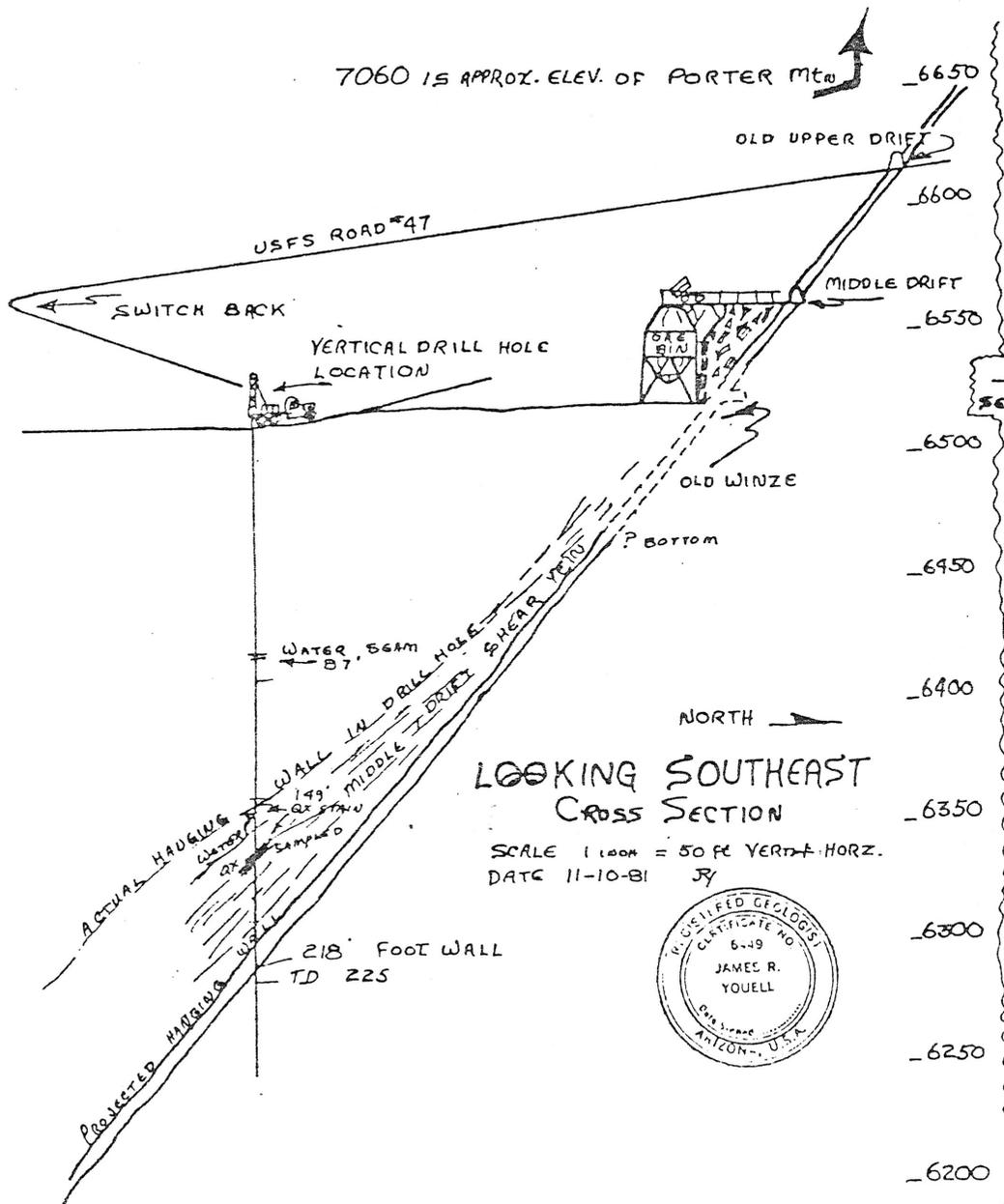
NEW AND VERY ENCOURAGING SURFACE SHOWINGS

The J and J's

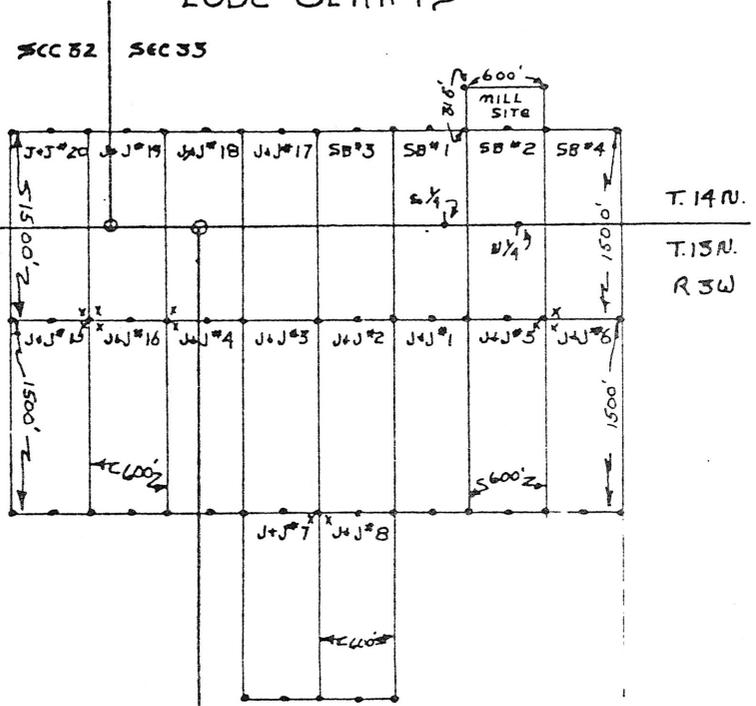
First, an outcropping extending some 600 feet in a north - south direction. Surface indications are that a well developed gossan in a shear zone, estimated two to four feet wide with at least one .3 ft. wide, high grade ore streak estimated at better than 50 oz. Ag., has been found.

Sampling will be undertaken as soon as the old drift is cleared and timbered shortly after the first of the year. The dumps have an estimated 100 tons of ore-grade material.

Second, another old workings on the east flank of Spruce Mountain has another north - south trending shear zone that on initial observation indicated about 400 feet north - south exposures. The dump ore is estimated to contain 1000 tons of ore, valued at near 20 oz. per ton. Considerable activity was once undertaken at this location. Several adits and surface facilities are apparent. This location will be examined more thoroughly during January of 1982.



SKETCH MAP of SILVER BUTTON GROUP LODE CLAIMS



SEC 5 SEC 4.

SEE ATTACHMENT FOR AMC NUMBERS

- CLAIM COR. POST
- x LOCATION POST
- ↓ 1/4 COR. OF SECTION
- ⊕ SECTION COR.

SCALE 1 inch = 1000 FEET
NOV 1980 JR

RECEIVED

NOV 22 1983

DEPT. MINERAL RESOURCES
PHOENIX, ARIZONA

*12/83 Copied for
Jucson
12/83*

REPORT OF PRELIMINARY INVESTIGATION

OF THE

SILVER BUTTON CLAIMS

FOR

*P.O. Box 26399
Prescott Valley 86312*

JAY MCKINNEY

- ADVISE OF YOU ELL

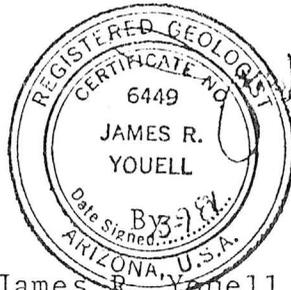
AND

*Silver Button 1-4
JJ 1-20*

JOHN SHOEMAKE

NO LONGER

OWNERS



James R. Youell
Geologist

James R. Youell Registered Geologist Box 338 Wenden, Arizona 85357

TRI J-V

Telephone: (602) 859-3491

LOCATION

Approximately four and one-half miles west of Prescott Arizona, on the Thumb Butte road; thence by forest service road 373 to Deering Park Estates; thence road 47 to mine site.

The middle working drift is about 100 feet S 70 W from the south 1/4 corner of Section ^{5/2} 33, T14N, R3W, GSBM.

N24 T13N R3W

The two claims and adjoining five acre mill site are within the Prescott National Forest. Operations are approved by the district ranger and a healthy working relationship exists.

The mine is at an elevation of 6600 feet in a forested east facing slope, allowing access during most of the year with the exception of the severest winter storms. Roads to the mine site are county and forest service maintained. The road base and surface is decomposed granite affording good drainage. The pavement ends just west of Thumb Butte Park and is a dirt road from there on to the mine.

WATER

Sufficient water is obtained in the middle working drift, even during dryest seasons - enough to carry out mining

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Silver Button

operations.

A spring is located near the lower vertical shaft site. It produces from a 1/2inch water pipe two gallons per minute. Plans are to open up this spring and store the expected five to ten gallons per minute in tanks at the mill site for operating leach and milling equipment systems. Five gallons per minute will produce 7200 gallons per day, more than enough to operate, with settling ponds, a mill and leach system during the early phases of operation and development.

When the shaft is completed below the middle drift it is expected to produce a surplus even for the 40 ton per day mill. The exact quantity of water that will be produced can be more closely determined after the drilling program has been completed and test results are in.

THE MINE WORKINGS

At present the Silver Button Mine is operating a development drift extending past the old tunnel excavation (middle tunnel portal). The old timers have dug numerous prospect pits along the strike of the

Page 3
Silver Button

Silver Button vein which strikes N 55° E and dips from 50° to 60°. The vein system is five feet thick in the widest visible exposures in the middle tunnel. Recent non mineralized faulting has left a highly fractured hanging wall. The mineralization and fracturing grade in frequency and intensity from minor at five feet out to severe at the foot wall contact.

At this time it is thought that the gently undulating footwall surface was nearly stationery relative to the hanging wall surface.

The mineralized opening indicates there has been several hundred feet of total displacement on this displaced undulating surface. A major cross fault has occurred. It is found in test pit samples near the ridge, 200 feet above the middle tunnel portal and 400 - 600 feet southwest depending on the dip of the cross fault.

The cross fault has good possibilities of being pre-mineralization and it presents the primary target for exploration. It is strongly suggested by the increasing size of the high grade lenses as the drift proceeds to the southwest that this cross fault figured strongly

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Silver Button

in either providing the plumbing conduit for the silver mineralization or affording extra space for deposition.

At the bend in the forest service road 47, some 235 feet south easterly from the middle tunnel portal and 58 feet below the portal a shaft is reported by the wife of the former owner, to have been operated on a near surface vein. A test pit is also found near to and south of the new mill site access road some 200 feet south easterly from the old shaft. This test pit was not sufficiently mineralized to warrant exploration. But its position and the position of the old shaft align closely with the earlier found cross faulting on the ridge above the middle tunnel portal.

MINE PLAN

1. Continue development drift at the middle tunnel to intersect mineralized cross fault and instal ore draw points.
2. Put exploration drilling program into operation from surface drill sites using down hole percussion hammer and diamond core.
3. Sink two compartment shaft to intersect

mineralized cross fault. Put in hoisting station and drift westerly along cross fault, stoping as necessary to provide mill feed.

4. Purchase and instal 40 - 60 ton gravity mill with sulfide flotation circuit and close circuit cyanide leach system using direct electrowinning to recover silver-gold dore bars.

It is expected that the four above steps in approximately the same order will require additional capital expenditures:

Step 1. Continue 5X8' development drift for another 60 feet at \$125/foot
Instal draw points and switching station for winz and slopes, ore cars, mill stockpile pads. \$23,500.00

Step 2. Contract exploration drilling using 3 3/8 DHH and NZ or NQ size wireline drill 10 - 12 - 200 foot holes from surface locations on forest service roads:

2000 ft 3 3/8 DHH @8.00/ft	\$16,000.00
400 ft. NQ DDH @28.00/ft.	\$11,200.00

Option: buy used exploration
drill for 16 - 18000 and do job
in house; hire consultant to
supervise, sell drill after the
work is completed. Estimated
savings, \$10,000.00 to \$12,000.00

\$27,200.00

The exploration to provide dollar value on
projected reserves.

Step 3. Sink a two compartment shaft approximately
180 ft. This should follow from drilling
program where closer costs can be obtained.
At this time it is estimated sinking cost
will be:

Drill, shoot and muck	-\$130./ft.	\$23,400.00
Timbering	- \$50./ft.	\$9,000.00
Hoisting equipment and head		\$12,000.00
frame, buildings, ore bin,		\$20,000.00
underground station and ore		\$18,000.00
transfer equipemnt		<u>\$82,400.00</u>

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Silver Button

MILL COST

60 ton mill and equipment	\$60,000.00
Primary crusher, grizzly and feeder	10,000.00
Power supply 45 KVA	20,000.00
Bins, conveyor & transfer equipment	20,000.00
Buildings & concrete work	30,000.00
Electrical installations & controls	<u>20,000.00</u>
	<u>\$160,000.00</u>
	<u>\$293,100.00</u>

In addition to the above items it will be required to have a staff of administrative "paper shakers" for compliance with federal and state regulations, engineering, metalurgical control, as well as payroll, safety, supplies, records, etc. The cost for these items is estimated at 25 percent of the budget estimate:

\$73,275.00
\$366,375.00

THE ORE

Principally the silver is in the form of Argentite, Ag_2S ; distinguished from Galena, PbS , being easily scratched with a knife, sectile, and from Sphalerite, ZnS crystal form and dull lustre.

An ore sample in addition to all the above minerals has Iron Pyrite, FeS_2 and its altered pseudomorphs, false form, and leached cavities, abundant Limonite, $2\text{Fe}_2\text{O}_3$, $3\text{G}_2\text{O}$ staining on Quartz SiO_2 and other minerals. The Quartz as a rule is found at the margin of primary opening developing crystal forms pointing toward center of mineralized vein. The Galena and Argentite fill the central portion of the vein. On occasion, all sulfide minerals will be interspersed in a section of Quartz fissure vein.

Secondary Calcite CaCO_3 is frequently iron stained pinkish. It is found in many transverse fractures. Other minerals are present in the altered zone between vein and the undisturbed banded Amphibolite country rock, often called Porphyry due to the large pink Plagioclase crystals.

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THE ROCK

The country rock is an altered rock generally termed an Amphibolite or banded Amphibolite.

Amphibolites are foliated metamorphic rocks composed of Hornblend and Plagioclase Feldspar. They are altered rocks being formed from other rocks, igneous or sedimentary, as the result regional metamorphic activity of a moderate to high grade confining pressure and temperature conditions.

Segregation occurs and minerals tend to be lineated, even to the unaided eye. The Hornblend will contain many microscopic inclusions of accessory minerals; plagioclase will tend to be zoned with different shaded rings within a single crystal. Biotite Mica will be found as a major accessory mineral.

ORE RESERVES AT THE SILVER BUTTON MINE.

The ore reserves at this time are based upon the sampling done in the middle working tunnel. The tunnel extends for some 360 feet southwesterly along the strike of the main fissure vein.

Samples were taken at irregular intervals along the right rib. The right rib has been stoped rather extensively on three occasions which account for about 150 feet of the exposed vein. The invert, or beneath the tracks as far as is known is intact and the logical place to sample, had not time and delay of operations not dictated other means of sampling. It would have meant removal of track and excavation of ballast; then sample cut across the vein. Samples cut in this manner would reveal a much higher value than the method which was used.

In general, the vein can be thought of as having high grade and low grade areas. Think of an irregular surface of a poorly done concrete slab; after a rain, water puddles will form in the low spots. The puddles will not necessarily be round but may be streaked. The vein

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surface is like the slab of concrete only with another slab upside down, your picture is about right for an ore vein.

The vein at the Silver Button was put in place by a very good puddle builder. It appears that ore is found all along the vein but with some very rich spots.

The compensation and adjustments made, we arrive at an average ore value of 16.63 oz./ton Ag and .0056 oz/ton of Au; the average vein width sampled is 1.3 feet.

The vein has a trace along the axis of the middle portal tunnel of 420 feet. The elevation at the surface of the west end of the tunnel is 6740. The elevation at the middle tunnel portal is 6560; this puts 180 feet of ore above. Using these figures there is $180 \times 420 \times 1.3 \times 171 \text{ \#/ft}^3$. Divide this by two for a triangle and divide this again by 2000 to arrive at tons, and we have 4201 tons of ore above the middle tunnel.

Using the same system as before, we will carry the estimate down dip for 380 feet to where the proposed 4 X 8 shaft intersects the vein, and along the vein for 420 feet. This will make a rectangular ore body of

Page 12 .

420 X 380 X 1.3 X 171 #/ft.³. Divide this by 2000
for tons and we have 17,739 tons.

At this point in time, without core sample information,
no estimate will be made of the intersection of probable
mineralized cross fault, or the ore on the cross fault.

It will only add to the estimate given:

Tonage above middle tunnel	4201 tons
Tonage below to 380 feet intersection	<u>17739 tons</u>
TOTAL TONS	21,941 tons
21941 tons at 16.63 oz/tn Ag =	364,847.83 oz.
21941 tons at .0056 oz/ton Au =	122.86
Ag at a value of \$10.00/oz.	\$3,648,478.33
Au at a value of \$500.00/oz.	61,430.00

These estimates are preliminary and should be adjusted
as more data is gathered. The ore is all classed as
probable but many things could cause this to increase
or decrease. The stakes are high and a good look with
step 1 and step 2 would be warranted at this time.

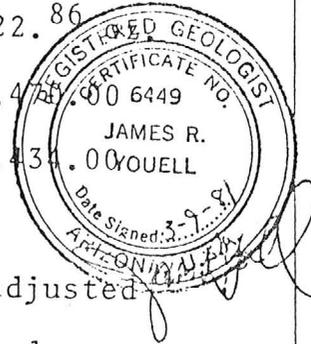


TABLE I
PRELIMINARY ORE ESTIMATE
Samples From Middle Tunnel Drift

Sample No.	Assay		Width In Feet	Interval In Feet	WXI	WXIKA	
	AU Oz/Ton	AG				AU	AG
100	Tr	.06	2.0	16.0	32.	-	1.92
200	Tr	Tr	0.9	37.5	33.75	-	-
300	Tr	Tr	1.2	29.5	35.4	-	-
400	Tr	.28	1.0	25.5	25.5	-	7.14
500	Tr	.69	1.2	21.5	25.8	-	16.51
600	Tr	.29	1.5	7.0	10.5	-	2.52
700	Tr	.16	1.0	11.5	11.5	-	1.84
800	.03	.59	0.8	22.5	18.0	.54	10.62
900	Tr	.10	1.0	28.0	28.0	-	2.80
1000	Tr	.12	2.5	27.0	67.5	-	8.10
1100	.004	7.26	1.5	16.0	24.0	.096	174.24
1200	.004	1.43	1.3	9.0	11.7	.0468	16.73
1300	Tr	.08	1.0	14.0	14.	-	1.12
1400	Tr	1.66	1.5	11.6	17.25	-	28.64
1500	.022	37.69	2.0	11.0	22.	.484	828.08
Face					376.90	1.17	1100.26
1600	.046	242.95	0.4	4.0	1.6		388.72

There is 57 feet of stopes in tunnel, so to be consistent, use sample 1600 in averaging the assays.

1600A	.046	242.95	0.4	57.	<u>22.8</u>	<u>1.05</u>	<u>5539.26</u>
					399.26	2.22	6639.52

$$\frac{6639.52}{399.20} = 16.63 \text{ oz AG/Ton}$$

$$\frac{2.22}{399.20} = .0056 \text{ oz AU/Ton}$$

$$\frac{20.8}{16} = 1.3 \text{ ft. for average vein width}$$

IRON KING ASSAY OFFICE
ASSAY CERTIFICATE

BOX 247 — PHONE 632-7410
 HUMBOLDT, ARIZONA 86329



ASSAY
 MADE
 FOR

JAMES R. YUELL
 P.O. Box 338
 Wenden, Ariz. 85351

March 9, 1981

SAMPLE DESCRIPTION	Ref no.	Gold oz/ton	Silver oz/ton
#100	3-4-1	Tr	0.06
#200	-2	Tr	Tr
#300	-3	Tr	Tr
#400	-4	Tr	0.28
#500	-5	Tr	0.64
#600	-6	Tr	0.24
#700	-7	Tr	0.16
#800	-8	.030	0.59
#900	-9	Tr	0.10
#1000	-10	Tr	0.12
#1100	-11	.004	7.26
#1200	-12	.004	14.30
#1300	-13	Tr	0.08
#1400	-14	Tr	1.66
#1500	-15	.022	37.64
#1600	-16	.046	242.95

CHARGES _____

ASSAYER _____

PERSONAL DATE SHEET

NAME JAMES ROBERT YOEUELL
ADDRESS Box 338, Wenden, Arizona 85357
TELEPHONE (602) 859-3491
BIRTHDAY July 22, 1931
HEIGHT: 6' 1"
Married, one son 23
U. S. Citizen

Served with U. S. M. C. Honorable discharge with rank of Sgt.
Major duties were concerned with radio communications and artillery
fire control.

Licensed pilot with approximately 350 hours logged. Am in the
process of building a two-place experimental airplane.

Registered Geologist: State of Arizona #G449
State of California #1943
State of Idaho #213

Registered Engineer: State of Arizona is pending

Memberships include: Fellow of A.A.A.S.
A. I. M. E.
E. A. A.
A. G. S.
A. G. I.
Boy Scouts of America, Rank of Eagle

ABSTRACT FOR ATTACHED RESUME

MORE THAN TEN YEARS EXPERIENCE IN ENGINEERING GEOLOGY:

SOILS, FOUNDATIONS, TUNNELS
EARTH FILLED DAMS
SLOPE STABILIZATION
MATERIALS TESTING AND SAMPLING

MORE THAN TEN YEARS EXPERIENCE IN MINING GEOLOGY:

EXPLORATION
MILLING
MINE OPERATION
EVALUATION
SAFETY ENGINEERING

MORE THAN SIX YEARS EXPERIENCE IN PETROLEUM GEOLOGY:

CUTTING AND CORE ANALYSIS
RESERVOIR ENGINEERING

SCHOOLING

UNIVERSITY OF ARIZONA, TUCSON, ARIZONA
ENGINEERING GEOLOGY TOWARD MASTER'S DEGREE

FRESNO STATE COLLEGE, FRESNO, CALIFORNIA
GRADUATED 1956 WITH DEGREE IN GEOLOGY
MINOR IN CHEMISTRY

HAVE CONTINUED MY EDUCATION BY TAKING ADDITIONAL COURSES
IN PHYSICS, MATHEMATICS, CHEMISTRY, SURVEYING AND MAP
MAKING.

BRIEF RESUME

Page 1

PRESENT OCCUPATION:

I am on my own, doing consulting and construction projects. A drilling rig was recently purchased and is undergoing re-building in our machine shop. The versatility of my background allows me to fit into many direct and related occupations.

PRIOR POSITION:

Senior Geologist and Materials Exploration Supervisor.
State of Arizona Highway Department, Phoenix, Arizona

As Senior Geologist my responsibilities ranged through the State of Arizona unraveling design problems dealing with rock and soil mechanics in the construction and maintenance of the State Highway System. The varied disciplines of structural Geology, blasting practice and theory, seismology, geophysics, mineral evaluation, petrology, hydrology and public relations were exercised.

The responsibility fell to me to establish a drilling section from feasibility studies to two operational drilling units. These drills were capable of wire line coring to 1500 feet as well as small six-inch water well completion. A full complement of augering, drive sampling, hammer drilling tools, etc., were used in obtaining exploration and design data. This was for our own use in the highway department, and other state agencies.

The piloting of a seismograph study brought still more tools to complement the S. P. and resistivity equipment our geophysical equipment crew was instrumental in providing. Our crews were instrumental in providing a 50% increase in successful water wells. The seismography with a directional seismometer was responsible in early warning of cut slope

failure, saving many tens of thousands of dollars in bridge design.

My background played an important part in accurately establishing the cause of S. P. anomalies with the Mule Pass Tunnel and in doing so, saved the taxpayers \$30,000.00 in unnecessary corrosion protecting.

PRIOR POSITION:

Chief Engineer and Safety Engineer
New Idria Mine and Chemical Company, Idria, California 95027

In this position, I was responsible for mine engineering practices both on the surface and underground. I made modifications on milling practices; I completed a washing system on condenser pipes, which paid for itself after only two months of operation. I was also responsible for all safety practices and procedures, working with the mine rescue team and completing all safety administration requirements and accident reports. This included teaching and instruction and updating all equipment and techniques, full charge of all engineering details in a 3,000 foot exploration drift. We used track haulage and ten by ten heading.

PRIOR POSITION:

Geologist - Engineer
Arizona Ranch and Metals Company
Mineral Hill Mine, Parker Arizona

At the time of my employment with ARAMCO, we were in the process of bringing the Mineral Hill Copper Mine into production. I worked as assayer, engineer, geologist, safety engineer and general shock-trooper. My duties were for the most part concerned with bringing into productive use the 1000 ton per day leaching facilities.

*Copy for Jackson
12/83*

SILVER BUTTON UPDATE AS OF DECEMBER, 1981

ABSTRACT

It is necessary that additional investment be obtained so that proper exploitation of the ore body can be realized. Funds are also required to develop a comprehensive mill plan and refining plant. The present system is designed as a temporary stage.

The picture at the Silver Button Claim Group looks bright.

1. It is projected to start batch leaching of the high grade ore during the first week of January, 1982.
2. Ore will be recovered from the raise to 6600 ft. level and provide alternate escape route.
3. A crusher and hydro jig to concentrate the surface dumps will be installed.
4. The cyanide electrowinning system will be operating and projected to produce 100 oz. per day. Low grade will be stockpiled for future concentrating and processing.

James R. Youell Registered Geologist Box 338 Wenden, Arizona 85357

TRI J-Y

Telephone: (602) 859-3491

SILVER BUTTON MINE

YAVAPAI COUNTY
T14N R3W Sec 33 S $\frac{1}{2}$
T13N R3W Sec 4 N $\frac{1}{2}$

NJN WR 10/7/83: An inquiry was received concerning the Silver Button Claim. The property is supposed to be active. The caller was seeking production or operating history of the mine prior to investing in it.

KAP WR 12/16/83: Tom Staley, 1215 Hopi Drive, Prescott, AZ. 86301, Ph: 445-2724 (work - 445-3151) is considering investing in an exploration effort at the Silver Button Mine. The mine is covered by the Silver Button #1-#4 lode claims and the J-J #1-#2 claims. The claims were originally located by Jay McKinney and John Shoemake. According to Mr. Staley, John Shoemake's interest was bought out by Jay McKinney. Mr. Staley has supplied us with a series of reports by James R. Youell on the property, discussing its geology, proposed development, potential reserves, proposed mining methods and proposed mill. The reports were reviewed and discussed with Mr. Staley. He explained that the property is currently idle awaiting additional monies. When money becomes available plans are to drill in an attempt to intersect the mineralization about 150' below the lowest level of old workings. The property is reported to have a potential of 22,000 tons at 16.6 tr. oz/ton silver with approximately .005 tr. oz gold/ton. The current owner of the claims is believed to be Jay McKinney, P.O. Box 26399, Prescott Valley, Prescott, AZ. 86312.

KAP WR 5/4/84: Howard Wurtz of the U.S. Forest Service reported Jay McKinney and James Youell have continued work at the Silver Button Mine (file) Yavapai County. They now plan a small gravity mill for the property to treat dumps and underground ore they have developed. They plan to erect the mill near the top of a hill at the collar of a shaft on the vein. Some dump material will need to be hauled uphill to the mill. Mr. Wurtz felt the operation and mill justifiable.

KAP WR 8/23/85: Verbal information was received that investors in Jay McKinney's mine development at the Silver Button Mine (file), Yavapai County are complaining they were had. Apparently, Mr. McKinney formed a limited partnership with a Mr. Marvin Johnson, Tom Staley, and others and reportedly over \$200,000 was spent on underground exploration, drilling and assembling a small mill.

JUN 1 1984



Hamm

Office of State Mine Inspector

705 West Wing, Capitol Building
Phoenix, Arizona 85007
602-255-5971

NOTICE TO ARIZONA STATE MINE INSPECTOR

In compliance with Arizona Revised Statute Section 27-303*, we are submitting this written notice to the Arizona State Mine Inspector (705 West Wing, Capitol Building, Phoenix, Arizona 85007) of our intent to start (please circle one) a mining operation.

COMPANY NAME Silver Button Mine (H)

CHIEF OFFICER Jay McRinney

COMPANY ADDRESS P.O. Box 26399 Prescott Valley Az. 86312

COMPANY TELEPHONE NUMBER 602-772-8676

MINE OR PLANT NAME Silver Button Mine

MINE OR PLANT LOCATION (including county and nearest town, as well as directions for locating by vehicle)

Approx. 6 mi. Prescott, Western Thumb Butte Rd. to
Deering Ranch Estates (Approximately 5 mi. from Prescott)
1/2 mi. west of Deering Ranch Estates on Forest Rd. 47

TYPE OF OPERATION Lode PRINCIPAL PRODUCT Silver

STARTING DATE 6-1-80 CLOSING DATE Unknown

DURATION OF OPERATION PP

PERSON SENDING THIS NOTICE Jay McRinney

TITLE OF PERSON SENDING THIS NOTICE Owner

DATE NOTICE SENT TO STATE MINE INSPECTOR 5-30-84

*A.R.S. Section 27-303 NOTIFICATION TO INSPECTOR OF BEGINNING OR SUSPENDING OPERATIONS: When mining operations are commenced in any mine or when operations therein are permanently suspended, the operator shall give written notice to the inspector at his office prior to commencement or suspension of operations.

SILVER BUTTON CLAIM (4)

UNITED STATES
DEPARTMENT OF AGRICULTURE
FOREST SERVICE
Southwestern Region
Albuquerque, New Mexico

MEMORANDUM
MINERAL REPORT

2810 Prescott NF
McKinney, Jay

April 16, 1984
Date of Examination

Howard A. Wirtz
Mineral Examiner

May 9, 1984
Date of Report

Category: Mining Act Regulations

Claim Names: S.B. 1-4, J & J 1-28, Silver Button Mine

Location: T. 13 & 14 N., R. 3 W.

BLM State Office and Serial Number: Arizona 147640

Brief of Conclusions and Recommendations: That the proposal by Mr. McKinney to set up a portable mill on the south half of his J & J #17 lode claim is reasonable and necessary in the development of what appears to be a sufficient amount of ore in sight. Suitable stipulations to protect environmental values should be set and the operation monitored for compliance.

Approved: Raymond Marion 6/19/84
Regional Minerals Geologist Date

Approved: [Signature] 6/21/84
Director of Lands and Minerals Date

Introduction, Summary, and Conclusions

Jay McKinney has submitted an operating plan for his Silver Button Mine wherein he proposes to set up a semiportable, gravity-type 50 ton per day mill on the south half of his J & J #17 lode claim in T. 13 & 14 N., R. 3 W. McKinney plans to provide ore for the mill from three old dumps at first. Two of these dumps are quite close to the proposed millsite and appear to contain enough material for a test run of several months. A grab sample taken from the two upper dumps assayed a trace for gold and 99 oz. silver per ton.

The third potential ore source will require an uphill haul to the mill, but besides a sizable dump, it has several hundred feet of drift on apparently minable ore. This lower level would merit further development if the first operation proves successful.

Approval of the operating plan can be recommended since there appears to be an adequate supply of ore grade mineral, along with a well thought out plan of action for the mining and milling operation. Suitable stipulations to protect environmental values should cover road upgrading and maintenance, as well as final cleanup of the millsite. No use of hazardous chemicals or reagents is planned for the milling operation; however, a tailings pond will be needed in the draw below the proposed millsite. This will involve a concrete dam that will need to meet suitable criteria so that it will not wash out, and spillway provisions to accommodate estimated flood conditions.

If the initial phase of the operation is successful (profitable), it is likely that Mr. McKinney will want to expand the original operating plan to cover a larger tailings pond with a higher dam. The possibility that a flotation circuit would be included in the mill would certainly be considered to improve recovery of ore values. This would involve the use of hazardous reagents. At such time, the entire program should be reviewed.

Lands Involved

The present proposal covered by the operating plan in question is in secs. 4 and 5, T. 13 N., R. 3 W., and secs. 32 and 33, T. 14 N., R. 3 W., G&SRM, Yavapai County, Arizona. The actual operation proposed will be in the J & J #17 claim with ore being brought in from the J & J #18, S.B. #1, and the J & J #1 at the outset. The total claim block controlled by Jay McKinney, comprising the Silver Button Mine, includes 32 lode claims and a millsite.

Location and Access

The Silver Button Mine is reached by taking State Highway 255 westward out of Prescott for about 6 miles to Forest System Road 47; then about 3 miles to its junction with FR 47B, which leads to the mine. Another mile or so of very poor four-wheel drive road reaches the millsite and mine dump areas on West Spruce Mountain.

Topography and Vegetation

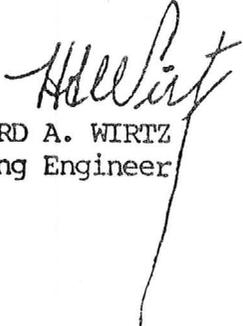
Elevation in the area in question varies from about 6,000 feet to 7,000 feet, with steeply sloping mountains and deep dry washes. Ponderosa pine covers most of the slopes.

Geology and Mineralization

The Silver Button mining property lies along a contact zone of intrusion of Precambrian granite into earlier Precambrian schist. This is a highly favorable situation bringing into contact mineral bearing Precambrian granite and Laramide granite with the reactive schist. The Copper Basin mineralized zone is just south of this area, with its history of abundant vein type deposition of lead, zinc, copper, silver, and some gold, as well as the well known copper porphyry deposit.

Workings located on the upper slopes are not presently accessible, but have significant dumps that appear to contain enough ore to constitute a good test. A grab sample taken from two of these dumps assayed a trace of gold and 99 oz. of silver.

The lower working has several hundred feet of drift on a vein that strikes N. 55° E. and dips 50° to 60° E. The vein structure is up to 5 feet wide, but mineralization averages a foot to a foot and a half. Ore minerals observed were galena, sphalerite, and probable argentite.


HOWARD A. WIRTZ
Mining Engineer

OPERATING PLAN. The following information taken together with that in items 1 through 6 constitutes a Basic Operating Plan for which approval is requested.

Claims on which Operations will be Conducted:

Claim Name	BLM Serial No.	Date of Location	Lode	Placer	Millsite (check)
Silver Button Claim Group (See attached sheet)					

8. Identification of Owners and Other Interested Parties:

Specify, under "status," whether owner, lessee, assignee, designee, etc:

Name	Address	Telephone No.	Status
Jay McKinney	Box 26399 P.V. Az.	772-8676	Owner
David McKinney	Box 16399 P.V. Az.	772-6236	Owner
Ray Ridley	Box 25450 P.V. Az.	772-9665	Equipment Watchman

Field Representative:

Name	Address	Telephone No.
David McKinney	Box 26399 P.V. Az.	602-772-6236

9. Method of Proposed Operation:

Specify how the operations of Item 4 would be conducted: *See attached sheets.*

10. Environmental Protection Requirements:

Measures to be taken to minimize adverse environmental impacts and reclaim disturbed areas. (36 CFR 228.8):

Ground to be returned to as near as possible to original condition.
U.S.F.S. will be contacted at time of restoration so same can & will be completed satisfactorily according to their existing requirements or regulations. Dumps: See attached sheets.
Remove buildings, equipment, close roads, paths etc.
Dam and tail pond to be resloped, vegetation reseeded with fertilization where necessary.

11. Map of Surface Disturbance:

A map is attached which shows the location and size of the areas of surface disturbance. (This map is required. A map scale of about 1"=1/2 mile is adequate.)



INSTRUCTIONS TO OPERATORS. Items 1 through 6 and 12 constitute a Notice of Intention; items 1 through 12 constitute a Basic Operating Plan. Please complete in as much detail as possible and furnish to District Ranger's office. Additional sheets may be used if necessary.

NOTICE: To the extent authorized by law this information will be held confidential. As an agency of the Federal Government, the Forest Service is required to comply with the Freedom of Information Act.

NOTICE IS HEREBY given that the undersigned intends to conduct prospecting, mining, or milling operation, etc. on the lands described below, and in the manner indicated.

1. Operator(s):

Name(s)	Address(es)	Telephone No(s)
Jay McElenny	Box 26399 P.V. Az.	602-772-8676
David McElenny	" " "	602-772-6236
Ray Ridley	Box 25450 P.V. Az.	602-772-9665

2. Area of Operation:

National Forest: Prescott	State: Arizona	Mining District: Thumb Butte
Ranger District: Bradshaw	County: Yavapai	T. T4N, R. R3W, Sec. 33-32-5-4
		T43N

3. Access:

The proposed route of access to the operation is (describe route from point of entry into National Forest, using road numbers when possible):

Forest Service Road #47

The following means of transport will be used (4-wheel drive vehicle, tractor, pickup, etc.): 3/4 T.P.U., 2-Ton Dump, 2-Ton Flat Bed, CJ Jeep, Diamond Drill Truck, Jeep Cherokee, 1 yd Truck Loaders, 450 Case Dozer

(NOTE: Construction, reconstruction, or restoration of a road across National Forest System lands as a means of access to mining claims must be authorized separately by special-use permit.)

4. Type of Proposed Operation:

Describe the type of proposed surface disturbing activities, such as trenching, bulldozer exploration, drill road construction, tunnel site development, etc.

- 1 Ore will be taken from underground & hauled to mill site for processing.
- 2 Rip & construct 400' x 600' Fenced mill site location & tail pond in fenced area.
- 3 Erect mill & Portable Bldg. within mill compound.
- 4 Touch up & maintain existing road
- 5 Entire operation will be within present claim boundaries.

5. Map:

A map is attached which shows the general area of operation and the proposed route of access to it. (This map is required. A map scale of about 1 inch = 2 miles is adequate.)

6. Period of Operation:

Period or periods during which operations, including road work, will take place. The work will be continuous intermittent during the periods:

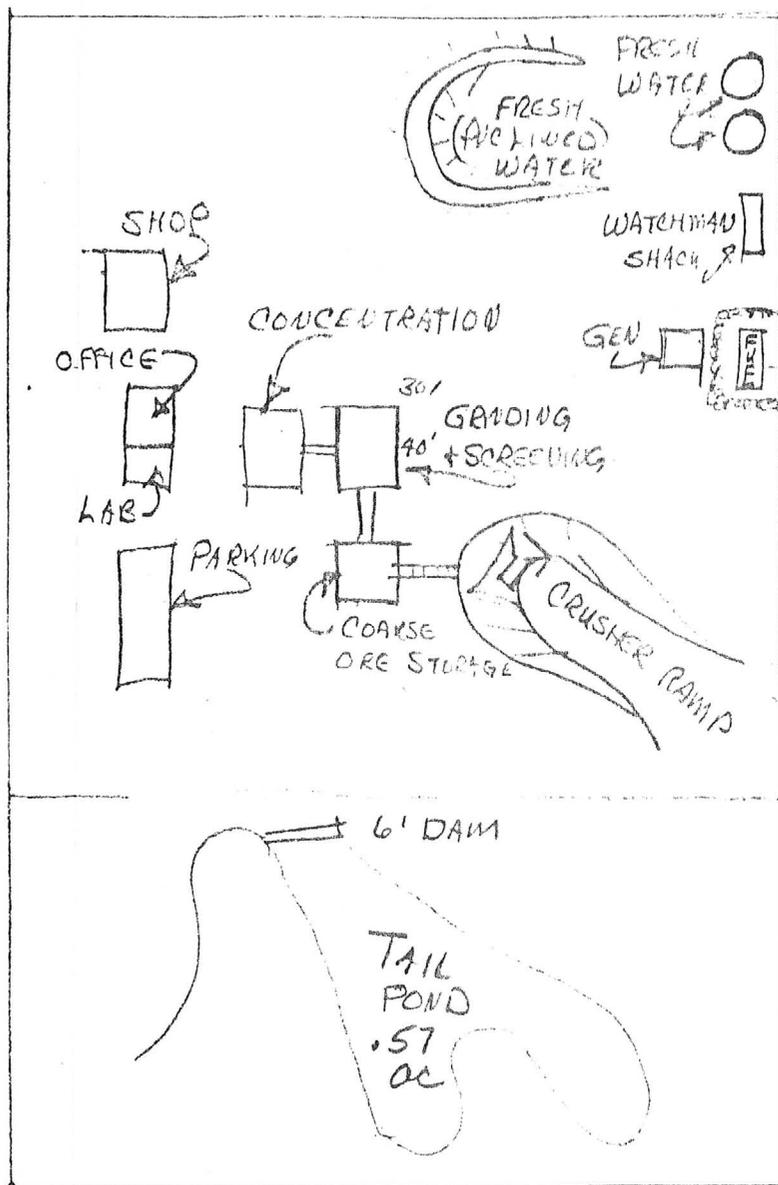
Road Work:	Other Operations:
April 1984 - April 1990	May 1984 - May 1990

SILVER BUTTON MINE

DISTURBED AREA MILL SITE

SCALE 1"=100' DATE 4-16-84 BY JY

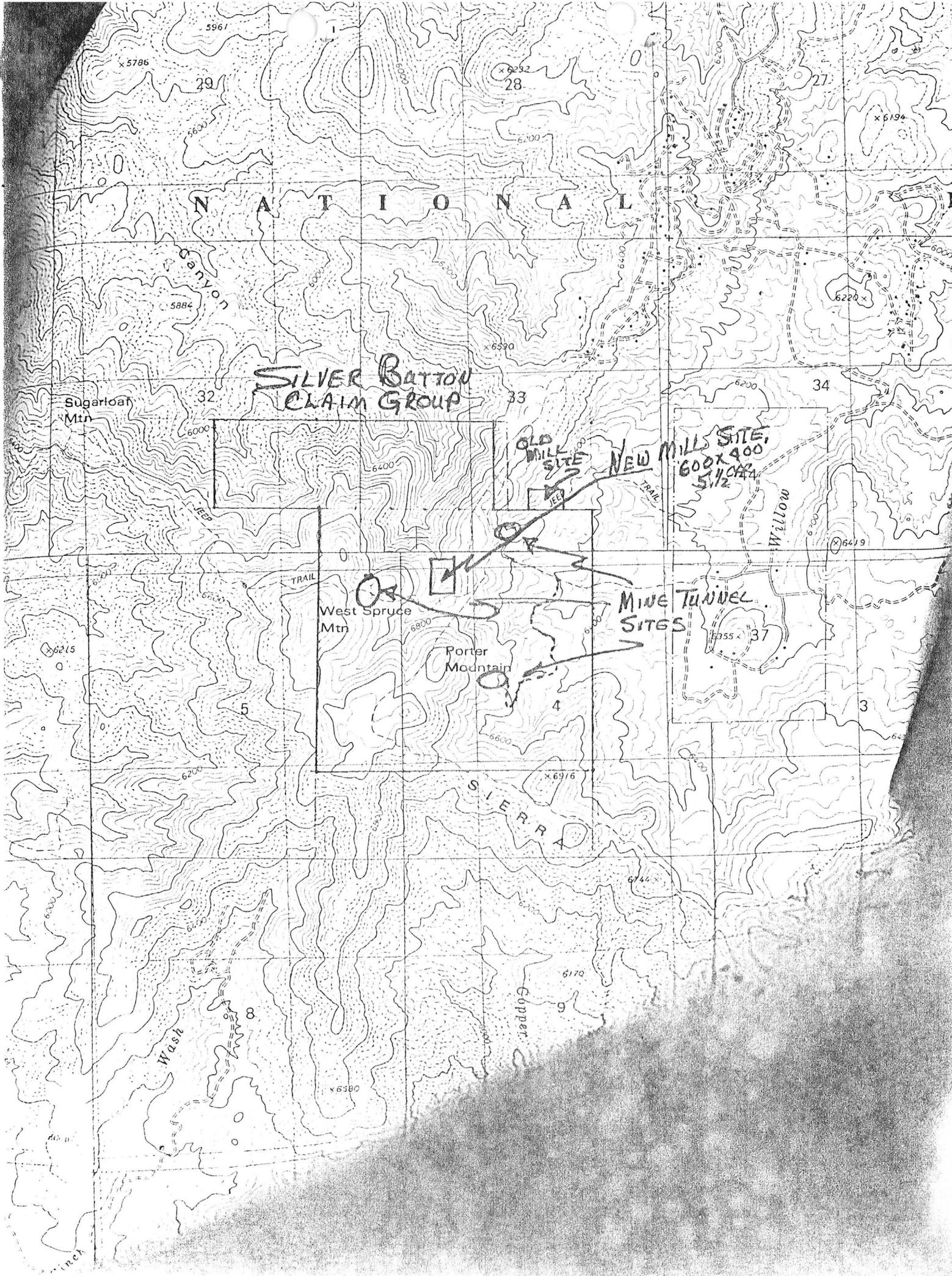
400'



600'

SHOP - 30' x 40'	1200
OFFICE + LAB 20 x 50	1000
CONCENTRATION 30 x 40	1200
GRINDING 30 x 40	1200
COARSE ORE 30 x 30	900
CRUSHER RAMP 60' x 100'	6000
FRESH WATER POND 100' x 100'	10000
TANKS 2 (20' x 20')	800
WATCHMAN SHACK 10' x 30'	300
PARKING - 20' x 70'	1400
GENERATOR 20' x 20'	400
FUEL STORAGE 30' x 35'	1500
	<u>25900</u>
ROADS & PATHS	3000
	<u>28900</u>

28900 / .66 ac 2000 = .43560



SILVER BATTON
CLAIM GROUP

OLD MILL SITE
NEW MILL SITE
600x400
5 1/2

MINE TUNNEL
SITES

Sugarloaf
Mtn

West Spruce
Mtn

Porter
Mountain

SIERRA

Copper

Wash

Willow

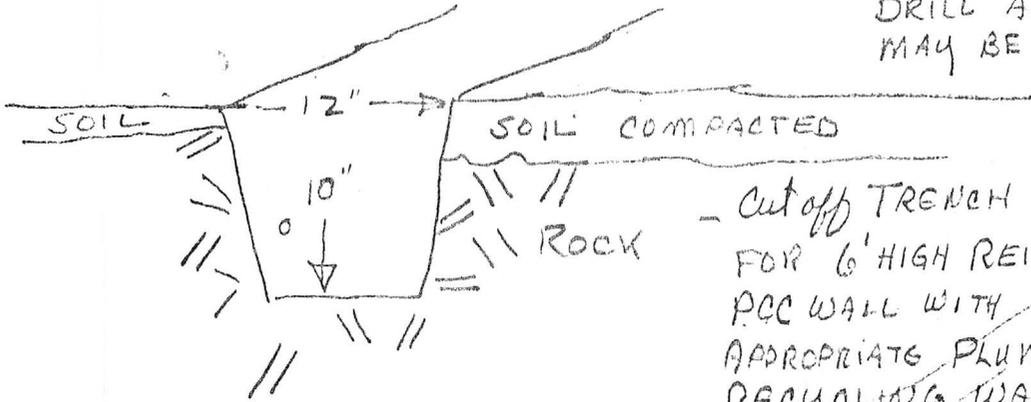
NATIONAL

6' DAM PRELIMINARY DESIGN SKETCHES

NECESSARY BACK HOE TRENCH FOR PRELIMINARY DESIGN

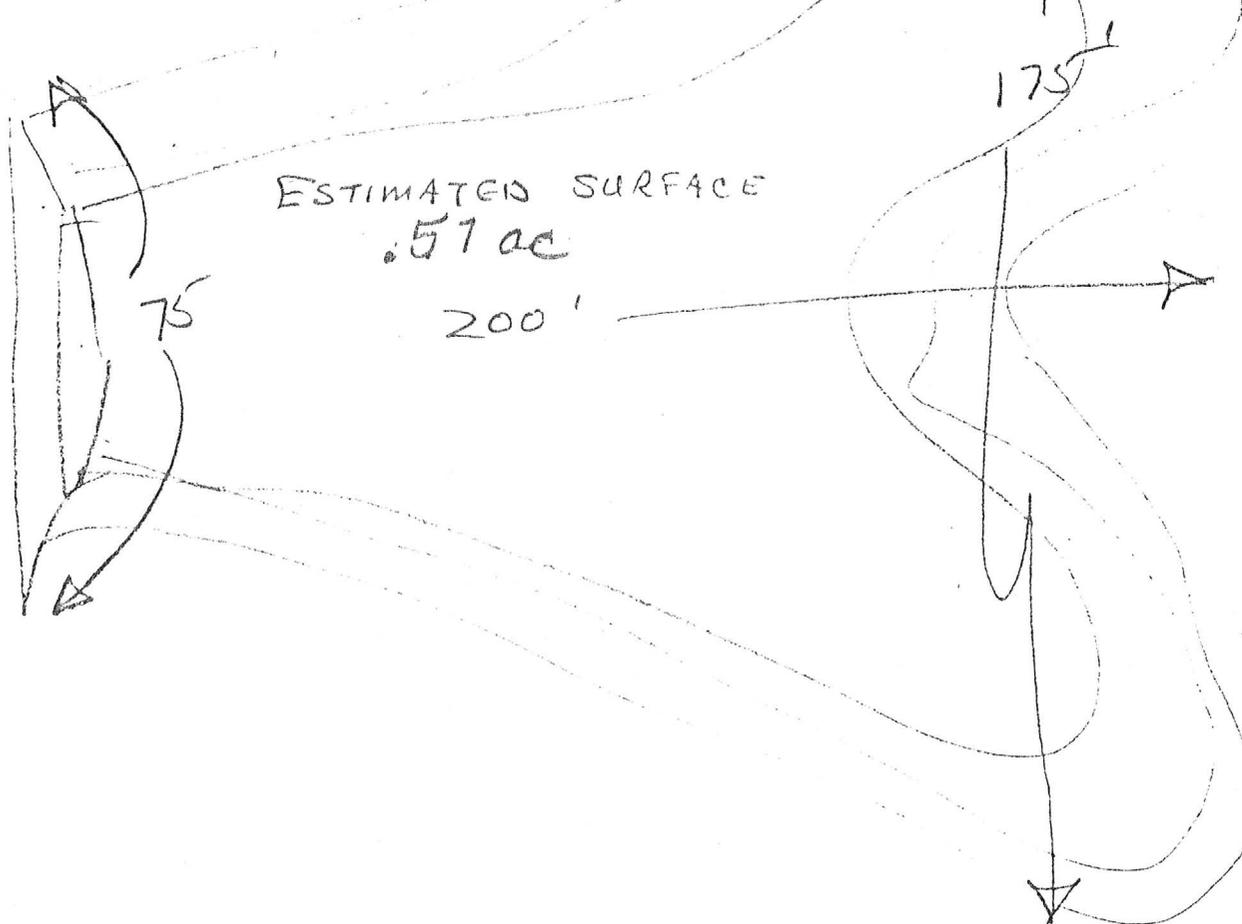
CUT OFF TRENCH TO BE KEYED INTO ROCK AT LEAST 10" OR UNTIL FRESH

IF ROCK IS TOO LOOSE DRILL AND SHOOTING MAY BE NECESSARY



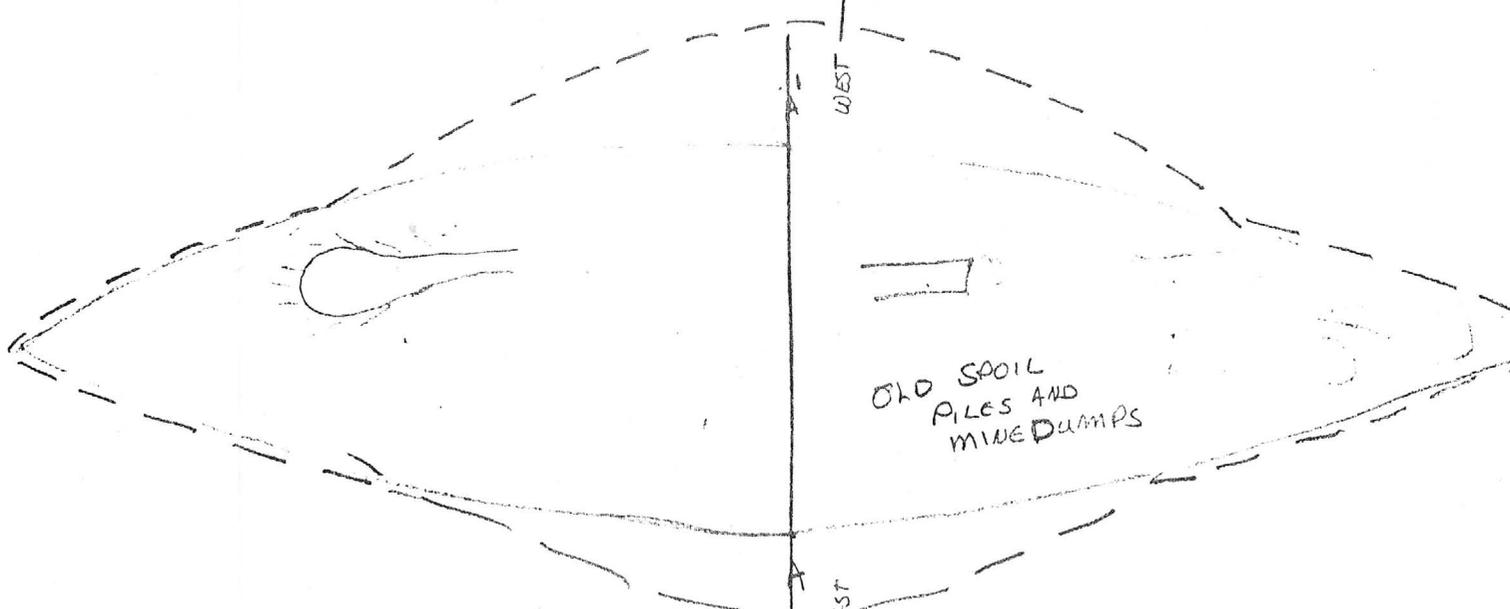
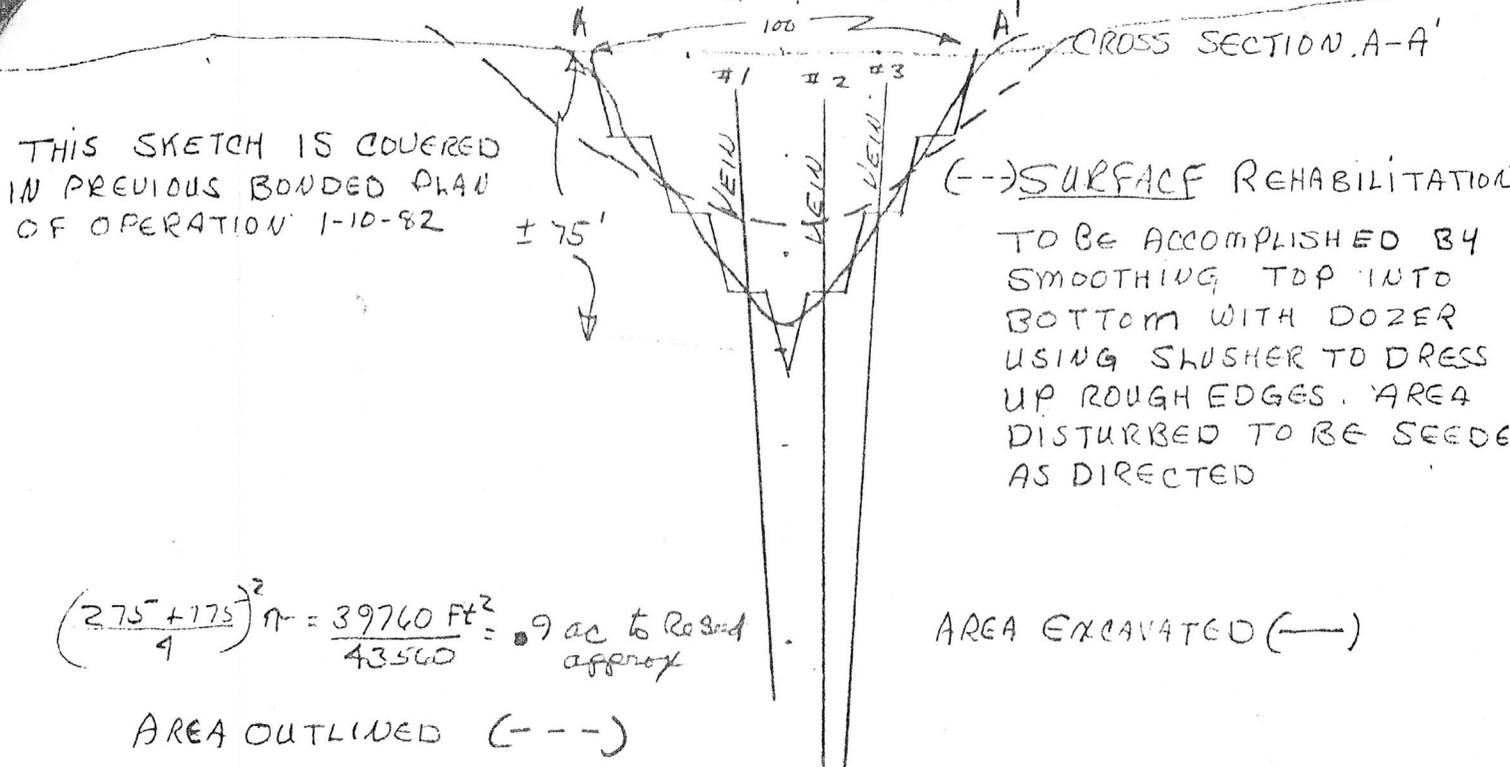
$$\frac{75+175}{2} \times 200 = 23500$$

$$\frac{43560}{23500} = 1.85$$



3 VEIN SYSTEM ON J-J 19

LOOKING SOUTH



ADDITIONAL SURFACE SPOIL DUMPS FROM UNDER GROUND DOWN SHOPS ON NORTH SIDE NOT EXPECTED TO INVOLVE MORE THAN .2 AC PER TUNNEL

SCALE 1" = 50'
By JY 4-16-84

DIAMOND DRILLING IN AREA WILL BE 3" HOLES IN EXISTING ROADWAYS

REHABILITATION AS DIRECTED, TO BE SEEDED

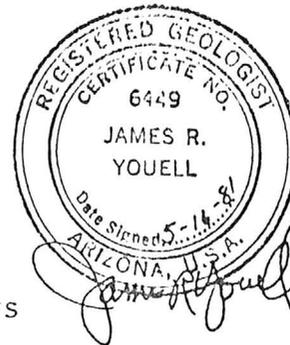
CHEMICAL TOILETS AT MINE SITES

Name of Claim

Recording information in the
office of the Yavapai County
Recorder in Book of Official
Records

		<u>AMC NO.</u>
Silver Button No. 1	Book 1342, Pages 784-796	192629
Silver Button No. 2	Book 1342, Pages 787-789	192630
Silver Button NO. 3	Book 1399, Pages 66-67	138718
Silver Button No. 4	Book 1434, Pages 37-38	201829
Millsite No. 1	Book 1342, Pages 790-792	116769
J & J #1	Book 1377, Pages 733-734	134875
J & J #2	Book 1377, Pages 735-736	134876
J & J #3	Book 1377, Pages 737-738	134877
J & J #4	Book 1377, Pages 739-740	134878
J&J #5	Book 1434, Pages 39-40	147641
J & J #6	Book 1434, Pages 41-42	147642
J & J #7	Book 1434, Pages 43-44	147643
J & J #8	Book 1434, Pages 45-46	147644
J & J #9	Book 1539, Pages 460-461	201830
J & J #10	Book 1539, Pages 462-463	201831
J & J #11	Book 1539, Pages 464-465	201832
J & J #12	Book 1539, Pages 466-467	201833
J & J #13	Book 1539, Pages 468-469	201834
J & J #14	Book 1539, Pages 470-471	201835
J & J #15	Book 1434, Pages 47-48	147645
J & J #16	Book 1434, Pages 49-50	147646
J & J #17	Book 1434, Pages 51-52	147647
J & J #18	Book 1434, Pages 53-54	147648
J & J #19	Book 1434, Pages 55-56	147649
J & J #20	Book 1434, Pages 57-58	147650
J & J #21	Book 1558, Pages 682-683	206318
J & J #22	Book 1558, Pages 684-685	206319
J & J #23	Book, 1558, Pages, 686-687	206320
J & J #24	Book 1558, Pages 688-689	206321
J & J #25	Book 1558, Pages 690-691	206322
J & J #26	Book 1558, Pages 692-693	206323
J & J #27	Book 1558, Pages 694-695	206324
J & J #28	Book 1558, Pages 696-697	206325

ADDENDUM TO PRELIMINARY REPORT
OF THE
SILVER BUTTON MINE



The addendum to the preliminary report shows middle drift advance from station 3 + 61 to station 4 + 42.7 since the sampling on May the 11th. The operators have continued to advance the development drift at four foot per day. By the time of the report completion some twenty feet of drift will be added to station 4 + 62.

Instructions were left to sample each face after mucking out. Sample at belt height full width of the drift.

The middle drift vein and the probable cross fault intersection is very close; see sketch plan view No.1. The mineralogical indicators along with the structural complication are both pointing to a sizable amount of ore.

The mineralogy change indicates the increased abundance

Page 2
Addendum
Silver Button Mine

of gangue minerals; quartz, iron pyrite, limonite and gothite. Ore minerals such as argentite are less confined to narrow streaks and can be found well distributed across the drift face. The same is true of the ore mineral galena.

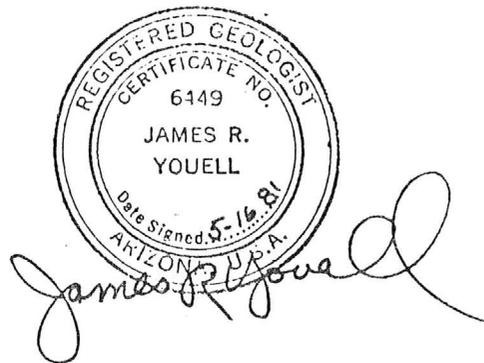
Structural complications at the middle drift vein intersection with the east-west fault trace are visible at the surface near the crest of the ridge west of the portal. The intersection is likely to be a normal or dip slip movement with considerable brecciation along both shear zones.

Sulfide mineralization followed this natural path creating one of the primary high grade ore shoots.

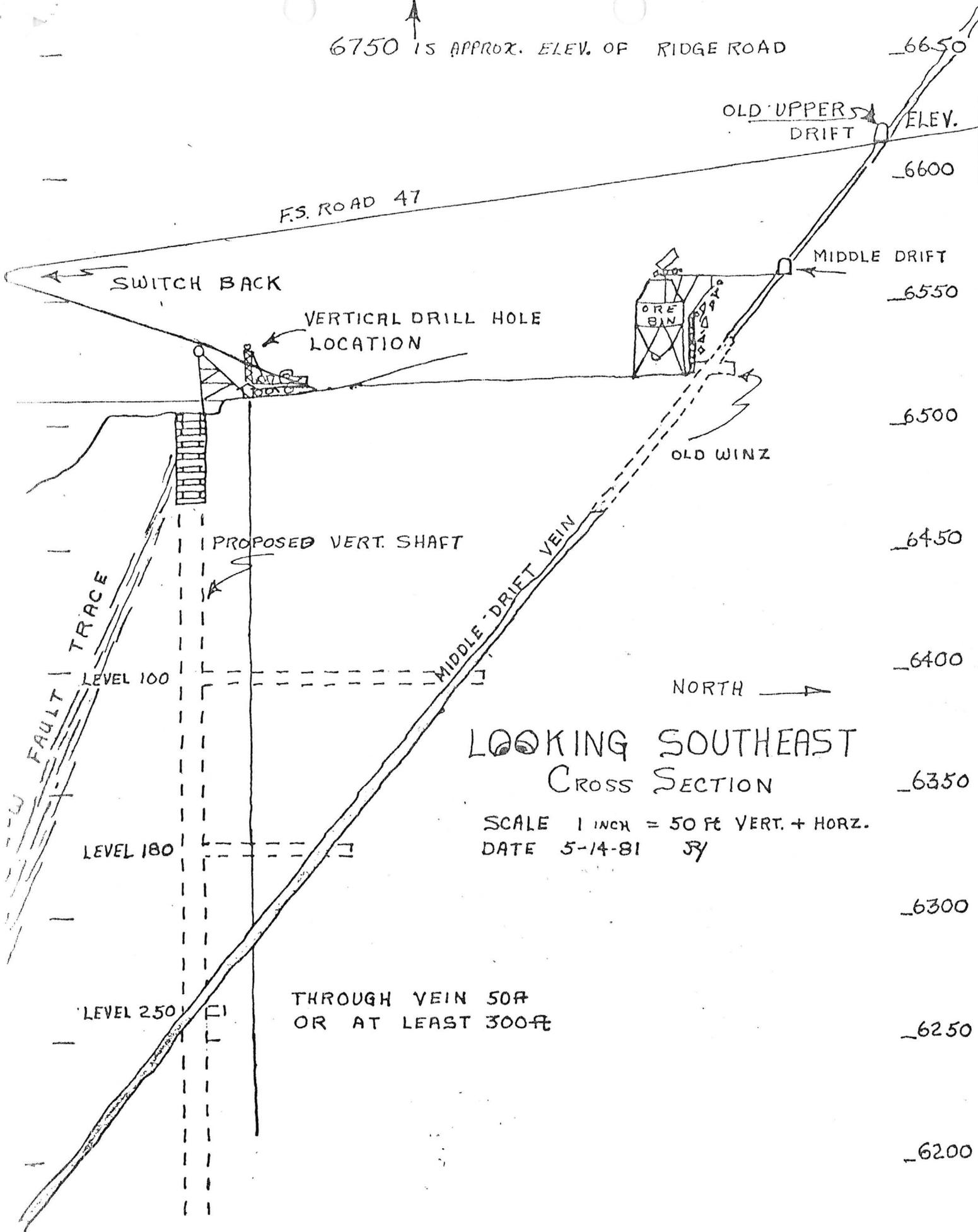
It is believed that both intersecting veins will be mineralized. The proof of this will soon be realized as the development drift passes through the next one hundred feet of drift.

Page 3
Addendum
Silver Button Mine

Original procedures still hold: this addendum is for the purpose of bringing the estimated reserves up to date, with the encouraging values and structural potential promise.



6750 IS APPROX. ELEV. OF RIDGE ROAD



6650
ELEV.
6600
6550
6500
6450
6400
6350
6300
6250
6200

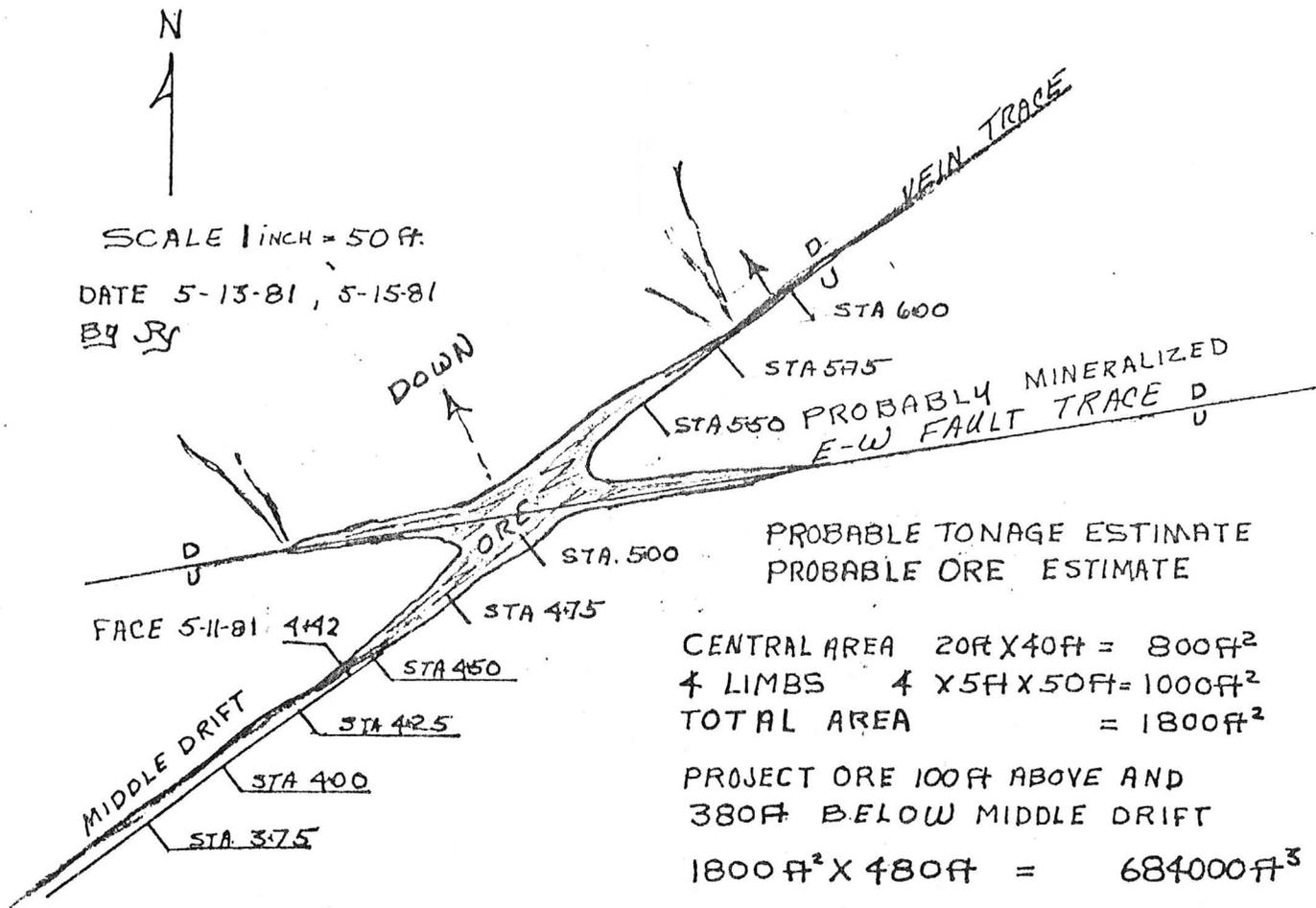
LOOKING SOUTHEAST
CROSS SECTION

SCALE 1 INCH = 50 FT VERT. + HORZ.
DATE 5-14-81 JY

THROUGH VEIN 50A
OR AT LEAST 300 FT

SKETCH PLAN VIEW No. I

GEOLOGISTS CONCEPTION OF MINERALIZATION
EXTENT AT APPROACHING FAULT INTERSECTION



SCALE 1 INCH = 50 FT.

DATE 5-13-81, 5-15-81

By JY

PROBABLE TONAGE ESTIMATE
PROBABLE ORE ESTIMATE

CENTRAL AREA $20\text{ft} \times 40\text{ft} = 800\text{ft}^2$
4 LIMBS $4 \times 5\text{ft} \times 50\text{ft} = 1000\text{ft}^2$
TOTAL AREA = 1800ft^2

PROJECT ORE 100ft ABOVE AND
380ft BELOW MIDDLE DRIFT

$1800\text{ft}^2 \times 480\text{ft} = 684000\text{ft}^3$

THIS ORE WILL WEIGH MORE THAN THE
ORIGINAL $171\text{lb}/\text{ft}^3$ IF IT WERE ALL
ARGENTITE ITS WEIGHT WOULD $455\text{lb}/\text{ft}^3$
UNTIL BETTER DATA IS FURNISHED
 $185\text{lb}/\text{ft}^3$ WILL BE USED.

ADDENDUM SAMPLES
FROM STA 3461 - 4442 SHOULD ESTABLISH
CONSERVATIVE ASSAY VALUE FOR THE
INTERSECTION

$$79.7195 \times 63270 = 5,043,852.76 \text{ oz Ag.}$$

$$5,043,852.76 @ \#10 \text{ oz} = \$50,438,527.65$$

$$0.00845 \times 63270 = 534.63 \text{ oz Au.}$$

$$534.63 @ \#500 \text{ oz} = \$267,315.75$$

$$\frac{684000\text{ft}^3 \times 185}{2000} = 63,270 \text{ TONS}$$

SAMPLE Sta. No.	ASSAY Oz/Tn		WIDTH IN FEET	INTERVAL IN FEET	WXI	WXIXASSAY	
	Au	Ag				Au	Ag
361. face	.046	242.95	0.4	4.5	1.8	.08	437.31
370	.02	70.70	1.3	7.0	9.1	.18	643.37
*375 face	.05	353.41	4.0	7	28	1.4	9895.48
384	Tr	1.02	1.4	5	7		7.14
*385 face	.014	466.02	4.0	3	12.0	.17	5592.24
*390	Tr	29.04	4.0	5	20.0		580.80
*395	Tr	0.82	4.0	10	40.0		32.80
410	Tr	3.44	1.4	9	12.60		43.34
413	Tr	7.32	1.4	5	7.0		51.24
420	.002	2.08	1.9	6.5	12.35	.02	25.68
426	Tr	1.58	2.0	11	22.0		34.76
442 ivt.	Tr	2.18	4.1	10	47		102.46
			30.5		218.85	1.85	17446.62

$$\frac{17446.62}{218.85} = 79.7195 \text{ oz/ton Ag}$$

$$\frac{1.85}{218.85} = 0.00845 \text{ oz/ton Au}$$

$$\text{Avg. width of vein } \frac{30.5}{12} = 2.54' \text{ wide}$$

*Sampled by Jay McKinney

RECAPITULATION
 OF
 PROBABLE ORE RESERVES
 FROM
 PRELIMINARY REPORT ON ADDENDUM

21941 tons middle drift vein to station 361
 63270 tons middle drift vein between station 361 and 600

21941 tons @ 16.63 oz./ton	=	364878.83 oz.
63270 tons @ 79.7195 oz./ton	=	5043852.77 oz.
		5,408,731.60 oz.
At \$10.00/oz.		<u>\$54,087.316.00</u>

Ore that has been removed from the drift during development work:

$$\frac{5' \times 8' \times 300' \times 171}{2000} = 1026 \text{ tons}$$

It should at least average 16.53/ton, or 17062.38 oz.

At \$10.00/oz.		_____
		\$170,623.80

TOTAL OUNCES OF SILVER:		5,425,793.98
TOTAL VALUATION OF ORE:		\$54,257,939.80