



## **CONTACT INFORMATION**

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03/10/87

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: BLUE BELL CLAIMS

ALTERNATE NAMES:

CASTERSEN PROPERTY  
ARIZONA HOMESTAKE  
OLE CASTERSEN  
UNION CLAIMS  
CASTERSON MINE  
BUCKSHOT 1-8

GILA COUNTY MILS NUMBER: 420

LOCATION: TOWNSHIP 9 N RANGE 9 E SECTION 16 QUARTER NW  
LATITUDE: N 34DEG 07MIN 40SEC LONGITUDE: W 111DEG 26MIN 40SEC  
TOPO MAP NAME: NORTH PEAK - 7.5 MIN

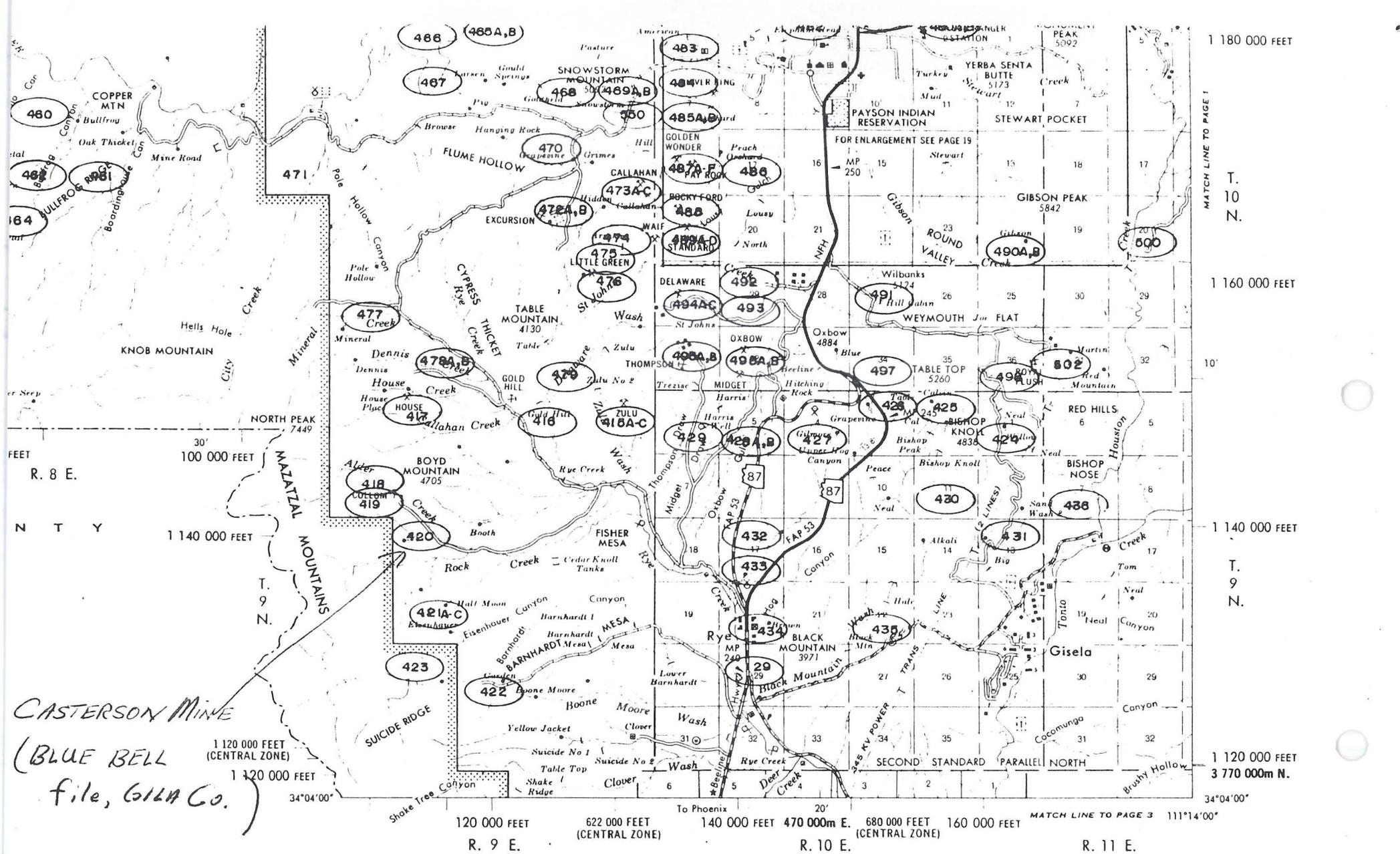
CURRENT STATUS: PAST PRODUCER

COMMODITY:

GOLD  
SILVER  
COPPER  
LEAD  
ZINC  
SILICON SMELTER FLUX

BIBLIOGRAPHY:

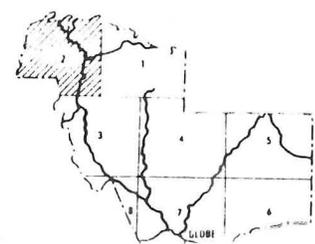
ADMMR BLUE BELL CLAIMS FILE  
USAEC 172-480 PRELIM RECONN GILA CO 1953 P167  
ADMMR CARD FILE  
WRUCKE, CHESTER T. (1985?) MINERAL RES POTENTIAL  
MAZATZAL WILDERNESS USGS MAP MF1573-A & RPT  
ELLIS, CLARENCE E. (1982) MINERAL RES OF MAZATZL  
WILDERNESS & CONTIG AREAS USBM MLA 56-82



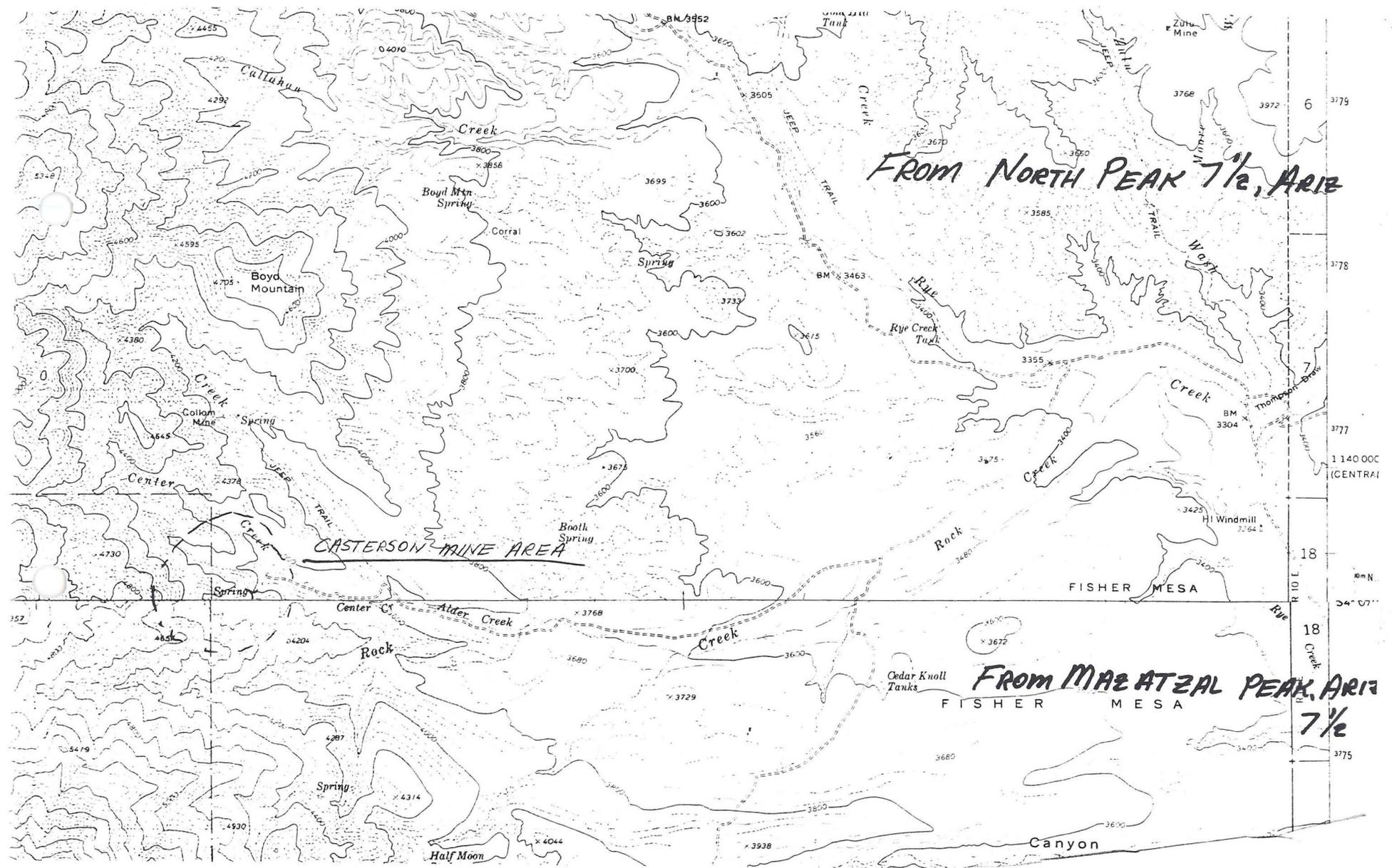
CASTERSON MINE  
(BLUE BELL  
file, GILA Co.)

GENERAL HIGHWAY MAP  
GILA COUNTY, ARIZONA  
ARIZONA DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
PHOTOGRAMMETRY & MAPPING SERVICES  
IN COOPERATION WITH THE  
U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION

Copies of this map are available  
at a nominal cost from:  
DIETZ and ASSOCIATES  
4706 N. 31st DRIVE  
PHOENIX, ARIZONA 85017







FROM NORTH PEAK 7 1/2, ARIZ

CASTERSON MINE AREA

FROM MAE ATZAL PEAK, ARIZ  
FISHER MESA  
7 1/2

6

3775

3778

3777

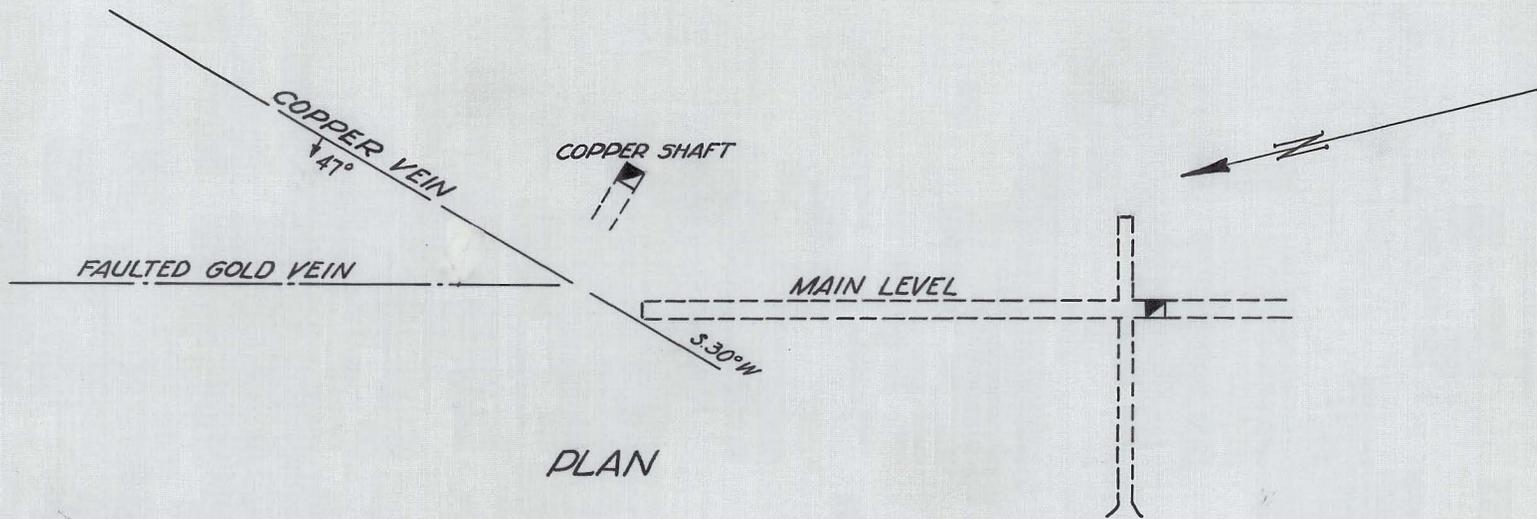
114000 (CENTRAL)

18

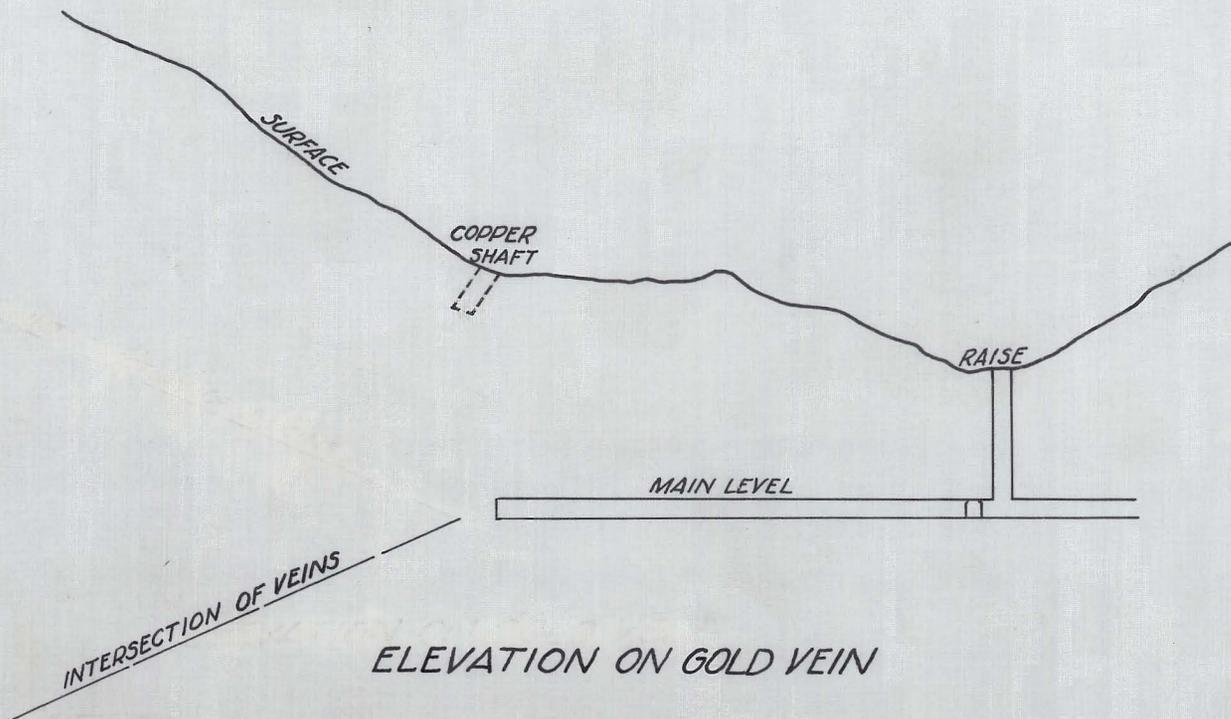
34° 07'

18

3775



PLAN



ELEVATION ON GOLD VEIN

ARIZONA HOMESTAKE MINE



14100

BLUE BELL CLAIMS

GILA COUNTY

MG WR 1/6/84: Provided file information on Blue Bell mine, Gila County to Mr. Ronald M. Phillips, P O Box 242, Payson, Arizona 85541. Mr. Phillips owns six of the original claims staked by his father.

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KAP WR 2/28/86: Ron Phillips of Payson reported he has a group of claims on the Casterson Mine, Blue Bell Claims (file) Green Valley Mining District, Gila County and would like a Department engineer to visit the property to make suggestions as how to proceed. He explained that the property was mapped and discussed in detail in USGS MF 1573A written on the Mazatzal Wilderness Area. We do not have a copy of the report but should buy one.

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KAP WR 3/28/86: In the company of Dick Beard a visit was made to the Casterson Mine (Blue Bell Claims - file), Gila County. A separate report has been written. The property should be evaluated as a possible shipper of silicious smelter flux from both old dumps and new underground ore. A sample of dump material was taken for analysis to that end.

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KAP WR 3/21/86: Talked with "Doc" Ellis at the US Bureau of Mines in Denver for information on the Casterson Mine (Blue Bell Mine - file), Gila County. He had sampled both the surface and underground at the property as part of the Bureau's work on the Mazatzal Wilderness mineral resource assessment. He is sending us copies of the sample data along with his comments about the condition of the underground workings.

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KAP WR 6/13/86: Ron Phillips of Payson again requested more help on sampling the underground portion of old workings on his Casterson Property, Blue Bell Claims (file) Gila County. Explained it would probably take portions of two days and I would like to coordinate it with a prsopectiors - miners meeting.

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## MINE AND PROSPECT FIELD VISIT DATA SUMMARY

Sheet 1 of 2

COMMODITIES Gold, Silver, Copper, QuartzMILS ID No. Gila 420 (Blue Bell Claims) Date March 27, 1986ENGINEER Ken A. Phillips and Dick BeardINFORMATION FROM: Field visit March 27, 1986PROPERTY SUMMARY

- I. MINE NAME Casterson OTHER POSSIBLE NAMES Buckshots 1-8  
INCLUDING ANY CLAIM NAMES NOTED
- II. LOCATION: T 9N R 9E SEC(S) 16 MINE DISTRICT Green Valley  
ELEV. 4000 COUNTY Gila TOPO QUAD. North Peak & Mazatzal Peak  
DIRECTIONS 10 miles west of Rye via Forest Rd 414 (west from Rye) to Forest Rd 442  
to end, then "jeep" trail southwest to portal of lower adit.  
MAP ATTACHED yes
- III. OWNERSHIP: NAME Ron Phillips PHONE 474-5026 (Message)  
ADDRESS: Box 242, Payson 85547  
COMPANY NAME IF ANY: \_\_\_\_\_  
PERTINENT PEOPLE Sharon Camden (Mesa, Az), Shirlene Peterson (Kila, Montana)  
Ron Phillips reports he has power of attorney.
- IV. PROPERTY AND HOLDINGS: Eight unpatented claims (4 in Mazatzal Wilderness)
- V. PAST PRODUCTION - NOTED, KNOWN, PROBABLE, UNKNOWN, NONE yes
- VI. CURRENT STATUS: Explored prospect, some past production
- VII. WORKINGS: Two adits (lower and upper) crosscutting to vein. Some stoping.  
Considerable (500 - 2000 tons) dump material in quartz vein. Some fluxing  
ore might be sortable from the dumps.
- VIII. GEOLOGY AND MINERALOGY: DEPOSIT TYPE: Quartz veins  
LENGTH: +500' WIDTH: 4" - 4' VEIN STRIKE N15E DIP Vert  
HOST ROCK: Precambrian andesite intruded by granite  
ECONOMIC MINERALS: Chalcopyrite, copper oxides, precious metal bearing pyrite quartz
- COMMENTS: Main quartz vein strikes N15E and dips nearly vertical. Two parallel  
quartz veins were noted. A siliceous limonite copper oxide stringer in  
schist strikes N45E and dips 50° SE
- IX. EQUIPMENT ON SIGHT: None

X. SAMPLING: NOTE TYPE IF ANY, DRILLING? Over 20 samples taken by U.S. Bureau  
of Mines. All were taken or extrapolated over 4 feet of width. One  
sample of hand sorted siliceous dump material was taken to determine potential  
to ship sorted smelter flux

XI. REFERENCES AND REMARKS \_\_\_\_\_

Wrukke, Chester T.; Marsh, Sherman R.; et al (circa 1985) Mineral Resource Potential of the Mazatzal Wilderness and Contiguous Roadless Area, U.S. Geol. Sur. Map MF 1573-A and Summery Report

Ellis, Clarence E., (1982) Mineral Resource of the Mazatzal Wilderness and Contiguous Rare II Further Planning Area, U. S. Bureau of Mines MLA 56-82.

M012

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
OWNERS MINE REPORT

Date 1-25-40

Mine Ole Casterson Mine

District Green Valley Mining

Former name

Owner Ole Casterson

Operator

President

Mine Supt.

Principal Metals Gold, silver, lead, copper, zinc  
in order as named per value  
Production Rate

Power: Amt. & Type

Operations: Present

Location About seven miles from Rye Creek  
store near Collom property in the  
Mazatzal Mts.

Address Payson, Arizona

Address

Gen. Mgr.

Mill Supt.

Men Employed One contracting to do  
assessment  
Mill: Type & Cap.

Operations Planned

Number Claims, Title, etc. Twelve claims unpatented

Description: Topog. & Geog. Monzonite and hornblende diorite contact. Sulphide ore that should be an ideal floating ore. The claims cover a series of four quartz veins running parallel but dip at different angles. Good surface showings but the main body of ore should be toward the mts. at a fair depth. Vein from two to four feet wide.

Mine Workings: Amt. & Condition Two crosscut tunnels of about 150 and 100 ft., about 300 ft. of drifting and 100 ft. raise to surface which shows up about 22,000 tons of mill ore. All works in excellent condition - ready to start at least one stope and easy to develop more

Geology & Mineralization The whole side of the Mazatzal Mts. under the capping shows much mineralization running more to copper on the south claims and gold and silver on the north. The walls are clear cut and even and the vein nearly vertical.

Ore: Positive & Probable, Ore Dumps, Tailings There is about 100 tons of 8 dollar ore on the dump and that much more five dollar ore. There is \$15 ore in the breast of the drift 2 ft. wide and under about 22,000 tons of eight dollar ore if averaged up. The values increase with depth.

Mine, Mill Equipment & Flow Sheet

Road Conditions, Route Fair road to camp and a road to mine and millsite. Inquire at Rye Creek store ten miles south of Payson on Globe highway and follow Collom signs to Collom's and inquire there.

Water Supply About one gallon per minute in mine and more can be easily developed. If necessary water can be pumped about one mile.

Brief History No one has ever tried to make a very serious effort on it. A gravity concentration mill was tried on a small scale but they could not recover the values and had no money to get other machinery. The owner isn't much of a promoter but very honest.

Special Problems, Reports Filed

Complex ore but should float good.

Remarks Anyone is welcome to sample and take mill tests all they care to. This mine must be seen to be appreciated. It is not a small pocket vein, altho high grade surface samples can be found in small pockets running as high as 5 oz. in gold and silver.

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

The property is for sale. I am merely working on contract to do assessment for Mr. Casterson. But I feel free to state that it can be bo't. for \$25,000 with \$1,000 down for ore on dump and rest paid in royalty and option agreement. Ole Casterson's address is Payson, Arizona, but until June it will be Cave Creek, Arizona, c/o Ashdale C.C.C. Camp - or get in touch with me. Any one welcome to sample.

Signed..... Wm. N. Louks  
Payson, Arizona.

Use additional sheets if necessary.

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
OWNERS MINE REPORT

Date January 25, 1940.

Mine ✓ Ole Casterson Mine

District - Green Valley Mining Dist.  
Gila County

Location - About 7 miles from Rye Creek  
store near Collom property  
in the Mazatzal Mts.

Former Name,

Owner - Ole Casterson

Address - Payson, Arizona

Operator

Address

President

Gen. Mgr.

Mine Supt.

Mill Supt.

Principal Metals - gold, silver, lead,  
copper, zinc, in order as  
named per value.

Men Employed - One contracting to do  
assessment work.

Production Rate

Mill: Type & Cap.

Power: Amt. & Type

Operations: Present

OLE CASTERSON MINE

Au, Ag, Pb, Cu, Zn

Gila

4 - 1

Sec 16, T 9 N, R 9 E

Operations: Planned

Ole Casterson, Payson

'40

Number of Claims, Title, etc. - 12 claims unpatented.

Description: Topography & Geography - Monzonite and hornblende diorite contact.

Sulphide ore that should be an ideal floating ore. The claims cover a series of four quartz veins running parallel but dip at different angles. Good surface showings but the main body of ore should be toward the mountains at a fair depth. Vein from 2 to 4 feet wide.

Mine Workings: Amt. & Condition - 2 crosscut tunnels of about 150 and 100 ft., about 300 ft. of drifting and 100 ft. raise to surface which shows up about 22,000 tons of mill ore. All works in excellent condition - ready to start at least one stope and easy to develop more.

Geology & Mineralization - The whole side of the Mazatzal Mts. under the capping shows much mineralization running more to copper on the south claims and gold and silver on the north. The walls are clear cut and even and the vein nearly vertical.

Ore: Positive & Probable, Ore Dumps, Tailings - There is about 100 tons of \$8 ore on the dump and that much more \$5 ore. There is \$15 ore in the breast of the drift 2 ft. wide and under about 22,000 tons of \$8 ore if averaged up. The values increase with depth.

Mine, Mill Equipment & Flow-Sheet

Road Conditions, Route - Fair road to camp and a road to mine and millsite. Inquire at Rye Creek Store 10 miles south of Payson on Globe highway and follow Collom signs to Collom's and inquire there.

Water Supply - About one gallon per minute in mine and more can be easily developed. If necessary water can be pumped about one mile.

Brief History - No one has ever tried to make a very serious effort on it. A gravity concentration mill was tried on a small scale but they could not recover the values and had no money to get other machinery. The owner isn't much of a promoter but very honest.

Special Problems, Reports Filed - Complex ore but should float good.

Remarks - Anyone is welcome to sample and take mill tests all they care to. This mine must be seen to be appreciated. It is not a small pockety vein, altho high grade surface samples can be found in small pockets running as high as 5 oz. in gold and silver.

If property for sale: Price, terms and address to negotiate - The property is for sale. I am merely working on contract to do assessment for Mr. Casterson. But feel free to state that it can be bought for \$25,000 with \$1,000 down for ore on dump and rest paid in royalty and option agreement. Ole Casterson's address is Payson, Arizona, but until June it will be Cave Creek, Arizona, C/o Ashdale C.C.C. Camp - or get in touch with me. Anyone welcome to sample.

(SIGNED) Wm. N. Louks

Payson, Arizona

MO-12

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
OWNERS MINE REPORT

Date 1-25-40

✓  
Mine Ole Casterson Mine.

District Green Valley Mining.

Former name

Owner Ole Casterson. ✓

Operator

President

Mine Supt.

Principal Metals Gold, Silver, lead, Copper, zinc.  
in order as named per value. ✓ ✓ ✓ ✓

Production Rate

Power: Amt. & Type

Operations: Present

Location about seven miles from Puye Crater  
store near Colton Property in  
the Mogatyal Mts.

Address Payson, Arizona.

Address

Gen. Mgr.

Mill Supt.

Men Employed One contracting to do assays.

Mill: Type & Cap.

Operations Planned

Number Claims, Title, etc. Twelve Claims. Unpatented.

Description: Topog. & Geog. Monzonite and hornblende Diorite contact. Sulphide ore that should be an ideal floating ore. The claims cover a series of four quartz veins running parallel but dip at different angles. good surface showings but the main body of ore should be toward the mts at a fair depth. Vein from two to four feet wide.

Mine Workings: Amt. & Condition

Two crosscut tunnels of about 150 and 100 ft. about 300 ft of drifting and 100 ft raise to surface which shows up about 22,000 tons of mill ore. all works in excellent condition. ready to start at least <sup>(over)</sup> one stop and easy to develop more.

**Geology & Mineralization** The whole side of the Magatzal mts. under the capping shows much mineralization running more to copper on the south claim and gold and silver on the north. The walls are clear cut and even and the vein nearly vertical.

**Ore: Positive & Probable, Ore Dumps, Tailings** There is about 100 tons of 8 dollar ore on the dump and that much more five dollar ore. There is <sup>15</sup> ore in the breast of the drift 2 ft. wide and under about 22,000 tons of eight dollar ore if averaged up. The values increase with depth.

**Mine, Mill Equipment & Flow Sheet**

**Road Conditions, Route** fair road to camp and a road to mine and mill site. Inquire at Rye Creek store ten miles south of Payson on Globe highway and follow Collom signs to Collom's and inquire there.

**Water Supply** about one gallon per minute in mine and more can be easily developed. If necessary water can be pumped about one mile.

**Brief History** No one has ever tried to make a very serious effort on it. A gravity concentration mill was tried on a small scale but they could not recover the values and had no money to get other machinery. The owner isn't much of a promoter but very honest.

**Special Problems, Reports Filed**

Complex ore but should float good.

**Remarks** Anyone is welcome to sample and take mill tests all they care to. This mine must be seen to be appreciated. It is not a small pocket vein altho high grade surface samples can be found in small pockets running as high as 50% in gold & silver. The owners word is as good as his paper.

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

The property is for sale. I am merely working on contract to do assessment for Mr. Casterone. But I feel free to state that it can be bought for 25,000 with 1,000 down for ore on dump and rest paid in royalty and option agreement. Mr. Casterone's address is Payson Arizona but until June it will be Cave Creek Arizona, 70 Ashdale C.C.C. Camp. Or get in touch with me. W<sup>m</sup> N. Souke anyone welcome to sample.

Signed.....

Use additional sheets if necessary.

Payson  
Arizona.

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
MINE OWNER'S REPORT

Date Oct 18, 1943.

1. Mine Arizona Homestake Mine
2. Location -107 Miles north of Phoenix  
17 miles south of Payson and 6.7 mile  
from Globe-Payson highway ,from Phoenix  
take either Bush or Apache highway to  
Globe-Payson highway to Rye.
3. Mining District & County - Mazatzal Mining district  
Gila County.
4. Former name Castersen Mine
5. Owner W. F. Kime
6. Address (Owner) Payson, Arizona.  
Residing temporarily at mine.
7. Operator W. F. Kime
8. Address (Operator)
9. President, Owning Co. none
- 9A. President, Operating Co. None
10. Gen. Mgr. None
14. Principal Minerals Gold- Copper-Silver-Lea
11. Mine Supt. None
15. Production Rate -With present equipment  
should easily handle 25 ton daily.
12. Mill Supt. None
16. Mill: Type & Cap. Flotation- 25 tons daily
13. Men Employed None at present
17. Power: Amt. & Type  
30 H.P. Romley diesel-1 cylinder for  
compressor and Desoto motor 45 H.P. for  
mill- gasoline fuel.
18. Operations: Present See Map for work  
already completed: Approximately 31,000  
tons of ore already blocked and ready to  
mill. Equipment installed.  
Property not being worked at present time .
19. Operations: Planned . To start milling the ore already blocked- to set aside a percentage of  
profits to further develop the copper vein which intersects the main developed vein by  
driving the 265' south drift approximately 53' further-then sink the shaft on the copper  
vein approximately 35' to meet the drift and this should open up a large quantity of ore  
with a high percentage of copper-then drift on the copper vein and haul the ore thru the  
south drift to the mill. Enlarge the mill later to meet the capacity of ore developed.
20. Number Claims, Title, etc. 13 unpatented lode mining claims. Union 1-Union 2-Union 3-  
Union 4-Francis-Edna- Blue Bell-Blue Bell 1-Blue Bell 2-Blue Bell 3-Blue Bell 4-  
Blue Bell 5- Blue Bell 6. See Map showing claims and location of Main workings.
21. Description: Topography & Geography . The property is hilly and follows the Mazatzal range of  
mountains at their base-this range runs northwest and southeast and is located approximately  
midway between Jerome and Inspiration-2 great copper producing belts-The claims are inter-  
sected by 3 creeks- Altitude is from 4000 to 5000 foot. The main workings 4400 foot. Blue Bell  
claim is lowest at 4100' and highest point at Francis claim- and Union 2 and 3. Rock Creek  
intersects Union 2 and 3 and then follows along at the approximate end of the claims of  
Francis- Edna- Blue Bell 2 and 3. Center Creek follows at the north end of the claims and  
Dry Creek which starts at a live spring intersects Blue Bell, Blue Bell 1 and 4.
22. Mine Workings: Amt. & Condition  
See Maps and additional sheets.

(over)

23. **Geology & Mineralization** /The principal enriched gold, silver, copper bearing quartz vein ranges in strike south 13 degrees east and lies almost perpendicular. The vein, a fissure vein, breaks clean from the hanging and foot walls and leaves smooth walls,-needs no timbering-Values occur as sulphides held in quartz. Walls are andesite and rhyolite;Pyrite, chalcop and malachite appear thruout . Deposit is sedimentary.
24. **Ore: Positive & Probable, Ore Dumps, Tailings** .See Map of Blocked ore in North drift of 201' at Highest point- 88½' in raise and 550' from raise to northernmost tunnel,all on ore.Depth of this ore body never explored,Suggest driving another tunnel 100' lower than the present cross cut-with a raise to the present level, should open large body of ore. Also extending south drift and sinking shaft to the drift-drifting on both the copper and main veins will open up vast bodies of ore.At present about 200 tons of ore on dump-value \$9.08 per
- 24A. **Dimensions and Value of Ore body**

See Maps for ore bodies and values along veins and in shafts, cuts etc.

25. **Mine, Mill Equipment & Flow-Sheet** .See Map of Flow sheet.Ball Mill,crusher,rolls,Callow flotation unitSullivan compressor, DeSoto and Romley motors,shafting, pulleys and water lines in place.small motor and pump for return water- 1500' of 2" water line installed to Rock Creek.832' of 16 lb. rails with 200' laid from ore dump to ore chute.ore car. ore chute is 4' wide and 32' long. ore bin-rake elevator. mixing tank, water tank,concentrate tank, ore dryer.1½ Ford truck.pumps,blacksmith equipment, complete laboratory equipment with button and pulp balance,chemicals and other equipment.
26. **Road Conditions, Route**

Road from main Globe-Payson highway to mine 6.7 miles is passable all year.a splendid high gear road may be had by arranging with the Gila County road supervisor to work same for charge for use of men, gasoline at small cost.At the old Rye store-now vacant-turn left or south off main highway and follow signs reading Mine Camp. Nearest railroad is Miami 30 miles or Clarkdale 86 miles distant.

27. **Water Supply**  
Domestic water is obtained from tunnel on Blue Bell claim,by bulkhead at tunnel and pipe to cabin.For Mill water, ample may be had from the spring at end of crosscut which is piped to the mill. A 1500' pipe line is laid to Rock Creek and water can be pumped from there,if needed.Return water can be pumped from the settling tank.Ample water may be easily developed.Seasons of heavy rainfall and snows increases water supplies.There is a live spring of water in Dry Creek also.
28. **Brief History**

I do not have information on early development or production.

*Blue Bell Claim*

29. **Special Problems, Reports Filed** .I have made tests to determine chemicals to be used in concentration of sulphides and was recovering good values but found that I badly needed a filter to save the recovered values as sulphides were so fine that they floated off in the concentrate tank. A filter will therefore be necessary.

30. **Remarks**

This mine is clean and an immediate return can be realized with a small capital investment, a few good men to work, and with perhaps a few minor changes until such time as the purchaser wishes to enlarge the present mill. All tunnels are in good workable condition and dry. \$3,000.00 should be ample working capital to begin this mine operating plus the purchase of a filter.

31. **If property for sale: Price, terms and address to negotiate.**

Property is for sale; \$25,000.00 Cash or \$50,000.00 with \$10,000.00 cash and balance on royalty basis with minimum of \$150.00 monthly and with guarantee of additional ore bodies being opened while present developed ore body is being worked.

32. **Signature** *W. J. Kime*

33. **Use additional sheets if necessary.**

Copies of assay certificates by  
Ed. Eisenhauer, Jr. of Los Angeles, Calif.

Jan 22, 1941.

Sample # 7- Raise in No Drift. .42 Oz, Gold. 2.08 Oz silver. Total value \$16.18  
" 7A-No. Breast " " .44 " " 1.56 " " " " ;6/51

\*\*\*\*\*

Jan 25, 1941

Subject-Concentration test.

Heads	.43 Oz gold	\$15.05	1.77 Oz silver	\$1.26	.45% Copper
Concentrates	3.54	" 123.90	10.65	" 7.56	1.54% "
Middlings	.35	" 12.25	1.35	" .96	
Tailings	.12	" 4.20	.56	" .41	

Distribution by weight

Heads	100%
Concentrates	8.90%
Middlings	10.00%
Tailings	81.10%

Indicated extraction

Gold	72.1%
Silver	67.6%

The ore was milled to -30 mesh and concentrated on a Wilfley concentrating table. The concentrates separated very cleanly and it is doubtful if much value was lost in the coarse sands. However it was noticed that the slimes did show a large amount of sulphides so that it is possible that by floating the slimes a much better saving can be made.  
Ed. Eisenhauer, Jr. Assayer.

\*\*\*\*\*

Subject Flotation test of ore.

Sept 26, 1941

Heads	.26oz gold	\$9.10	.10 oz silver	\$.07
Middlings	.75	" 26.25	.40	" .28
Concentrates	22.24	" 778.40	3.70	" 2.63
Tailings	.03	" 1.05	.06	" .04

Gold distribution

	By weight	By value
Middlings	1.10%	2.14%
Concentrates	1.00%	85.54%
Tailings	97.90%	11.32%

ph concentration 7.4 W/S Ratio 4 to 1

Indicated gold extraction 88.5%

In making this test the ore was milled in a ball mill for 25 minutes with the addition of .10 lbs Aerofloat # 31. A screen analysis showed that 93.4% of the ore was minus 100 mesh with the remaining portion being all minus 60 mesh. After discharge from the ball mill, the ore was floated in a Denver Sub A flotation cell after first having been conditioned for ten minutes with 1 lb. sodium sulphide. The additional .10 lbs of Aerofloat # 31 together with the Xanthate and Pine oil; were then added and floatation carried out with the concentrates being removed in 8 minutes and the middlings in an additional 10 minutes. The character of the froth was excellent and the concentrates very clean. The major portion of the concentrates seemed to have come over within the first 3 minutes of flotation.

Ed. Eisenhauer, Jr. Assayer.

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Assay certificate as of Nov 9, 1941.

Sample # 11	No. Drift composite	.20 oz gold	1.50 oz. silver	2.25 % copper	\$15.71
Sample 12	30' drift off So. drift.	.01	1.20	5.40%	"
13	Rock Creek conc shaft		2.55	2.85%	"

Ed. Eisenhauer, Jr. Assayer.

MINE OWNERS REPORT  
DEPARTMENT OF MINERAL RESOURCES

October 18, 1943

1. MINE: Arizona Homestake Mine
2. LOCATION: 107 miles north of Phoenix, 17 miles south of Payson and 6.7 miles from Globe-Payson highway, from Phoenix take either Bush or Apache highway to Globe-Payson highway to Rye.
3. MINING DISTRICT & COUNTY: Mazatzal Mining District, Gila County.
4. FORMER MINE: Casterzen Mine.
5. OWNER: W. F. Kime
6. ADDRESS (OWNER): Payson, Arizona. Residing temporarily at mine.
7. OPERATOR: W. F. Kime
8. ADDRESS (OPERATOR): Same
9. PRESIDENT, OWNING CO.: None
- 9A. PRESIDENT, OPERATING CO.: None
10. GEN. MGR.: None
11. MINE SUPT.: None
12. MILL SUPT.: None
13. MEN EMPLOYED: None at present
14. PRINCIPAL MINERALS: Gold, copper, silver, lead
15. PRODUCTION RATE: With present equipment should easily handle 25 tons daily.
16. MILL, TYPE & CAP: Flotation, 25 tons daily.
17. POWER, AMT. & TYPE: 30 HP Romley diesel -- 1 cylinder for compressor and DeSoto motor 45 HP for mill -- gasoline fuel.
18. OPERATIONS PRESENT: Approximately 31,000 tons of ore already blocked and ready to mill. Equipment installed. Property not being worked at present time. See map for work already completed.
19. OPERATIONS, PLANNED: To start milling the ore already blocked, to set aside a percentage of profits to further develop the copper vein, which intersects the main developed vein, by driving the 265' south drift approximately 53' further then sink the shaft on the copper vein approximately 85' to meet the drift and this should open up a large quantity of ore with a high percentage of copper, then drift on the copper vein and haul the ore thru the south drift to the mill. Enlarge the mill later to meet the capacity of ore developed.
20. NUMBER CLAIMS, TITLE, ETC.: 13 unpatented lode mining claims. Union 1, Union 2, Union 3, Union 4, Francis, Edna, Blue Bell, Blue Bell 1, Blue Bell 2, Blue Bell 3, Blue Bell 4, Blue Bell 5, Blue Bell 6. See map showing claims and location of main workings.
21. DESCRIPTION, TOPOGRAPHY AND GEOGRAPHY: The property is hilly and follows the Mazatzal range of mountains at their base. This range runs northwest and southeast and is located approximately midway between Jerome and Inspiration - 2 great copper producing belts. The claims are intersected by 3 creeks. Altitude is from 4,000 to 5,000 foot. The main workings 4,400 foot. Blue Bell Claim is lowest at 4100 foot and highest point at Francis claim - and Union 2 and 3. Rock Creek intersects Union 2 and 3 and then follows along at the approximate end of the claims of Francis, Edna, Blue Bell 2 and 3. Center Creek follows at the north end of the claims and Dry Creek which starts at a live spring intersects Blue Bell, Blue Bell 1 and 4.
22. MINE WORKINGS, AMOUNT AND CONDITION: The present development consists of 135'

crosscut tunnel running east and west; this tunnel crosscut a vein of ore at 50' which has never been explored but outcroppings on the surface indicate gold, silver and copper quartz. At 100' the tunnel crosscut the main vein of gold, copper, silver and lead ore, then continues 35' further to a splendid spring of water which has been piped to the mill. On the main vein, a north drift was run of approximately 110' with values in gold, copper, silver running as high as \$27.10. Samples were taken by channel cutting the width of the vein. Ed Eisenhower, Jr., of Los Angeles, prepared most of the assays and flow sheets, a copy attached hereto. At the intersection of the crosscut and the main vein, a raise was made to the surface of 88-1/2 feet, all on ore with width at the surface of 42". This vein can be followed north over the hill and boldly outcrops all the way with small open cuts made at the outcroppings showing the same type of ore--gold, silver, and copper quartz. 550' over this hill from the raise, a 30' tunnel was driven on the vein. I estimate approximately 31,000 tons of ore blocked in the body alone. An average of ten samples obtained from the north drift and the raise yielded an average value of \$14.59 which included an average of 2% copper. This average value would give the blocked ore body a value of approximately \$400,000.00.

From the crosscut tunnel, a south drift was made of 265'. 13' from the crosscut, a fault was encountered which pinched the vein to 4 to 6 inches. However, small values of gold and silver were found all the way. A 30' crosscut drift was run southwest and a value of this ore ran \$19.56 and showed 5.4% copper. Should this 265' south drift be extended, it should cut the main copper bearing vein which strikes south 30 degrees west, for at the shaft which was sunk on this vein, which is in a small canyon, showed splendid copper values. This shaft was 48' deep but has filled with water and sediment to within 25' of the collar. This shaft is located on Blue Bell #3. See longitudinal map for values of this shaft. Crossing this small canyon, the main quartz vein again appears in place and this vein can be traced over the entire claim of Blue Bell #3 and the width of this vein is about 30 to 36 inches.

On Francis claim another shaft was sunk on the copper vein of approximately 55' being filled with water, good samples have not been taken, but surface showings indicate .75% to 2.65% copper with some gold and silver. An 8 foot vein outcrops on the Blue Bell #5 claim but was not explored. On Blue Bell 6 another 4' vein appears on the surface and a chimney of quartz shows on the claim. Blue Bell 1 and 2 both show ore veins, with a large vein of silver near the Center Creek end of the claim. Edna shows an open cut of ore. Blue Bell 2 shows a caved tunnel some 300' in length old workings. An open cut shows good copper, silver and gold quartz and resembles the ore from the main workings.

On Union 1, a 76' tunnel was driven but never completed far enough to encounter the ore body there. Across Rock Creek on Union No. 2 is a peculiar body of ore which I have not explored but outcrops for a width of approximately 100'. Further along the creek 2 short tunnels were driven but never explored far enough to strike the ore body. The entire claims are impregnated with ore bodies and should be explored to test their values.

The main vein and raise are almost vertical. The shaft on Blue Bell #3 claim dips northeasterly at about 47 degrees. The shaft on Francis claim is vertical.

The ore bin is 4' x 8' x 10-1/2'.

All tunnels are clean, in good workable condition and need no timbering.

See map of claims for workings.

23. GEOLOGY AND MINERALIZATION: The principal enriched gold, silver, copper bearing quartz vein ranges in strike south 13 degrees east and lies almost perpendicular. The vein, a fissure vein, breaks clean from the hanging and foot walls and leaves smooth walls, needs no timbering. Values occur as sulphides held in quartz. Walls are andesite and rhyolite, pyrite, chalcopyrite and malachite appear throughout. Deposit is sedimentary.
24. ORE, POSITIVE & PROBABLE, ORE DUMPS, TAILINGS: See map of blocked ore in North drift of 201' at highest point, 88-1/2' in raise and 550' from raise to northernmost tunnel, all in ore. Depth of this ore body never explored. Suggest driving another 100' lower than the present cross cut with a raise to the present level, should open large body of ore. Also extending south drift and sinking shaft to the drift, drifting on both the copper and main veins will open up vast bodies of ore. At present, about 200 tons of ore on dump values \$9.08 per ton.
- 24A. DIMENSIONS AND VALUE OF ORE BODY: See maps for ore bodies and values along veins and in shafts, cuts, etc.
25. MINE, MILL EQUIPMENT AND FLOW-SHEET: See map of flow sheet. Ball mill, crusher, rolls, callog flotation, unit Sullivan compressor, DeSoto and Romley motors, shafting, pulleys and water lines in place. Small motor and pump for return water. 1500' of 2" water line installed to Rock Creek. 832' of 16 lb. rails with 200' laid from ore dump to ore chute, ore car. Ore shoot is 4' wide and 32' long. Ore bin-rake elevator, mixing tank, water tank, concentrate tank, ore dryer. 1-1/2 ton Ford truck, pumps blacksmith equipment, complete laboratory equipment with pulp balance, chemicals and other equipment.
26. ROAD CONDITIONS, ROUTE: Road from main Globe-Payson highway to mine 6.7 miles is passable all year. A splendid highway gear road may be had by arranging with the Gila County Road supervisor to work same for a change for use of men, gasoline at small cost. At old Rye store, now vacant, turn left or south off main highway and follow signs reading Kime Camp. Nearest railroad is Miami 80 miles or Clarkdale 86 miles distant.
27. WATER SUPPLY: Domestic water is obtained from tunnel on Blue Bell claim, by bulkhead at tunnel and piped to cabin. For mill water, sample may be had from the spring at end of crosscut which is piped to the mill. A 1500' pipe line is laid to Rock Creek and water can be pumped from there as needed. Return water can be pumped from the settling tank. Ample water may be easily developed. Seasons of heavy rainfall and snows increase water supplies. There is a live spring of water in Dry Creek also.
28. BRIEF HISTORY: I do not have information on early development or production.
29. SPECIAL PROBLEMS, REPORTS FILED: I have made tests to determine chemicals to be used in concentration of sulphides and was recovering good values but found that I badly needed a filter to save the recovered values as sulphides were so fine that they floated off in the concentrate tank. A filter will therefore be necessary.
30. REMARKS: This mine is clean and an immediate return can be realized with a small capital investment, a few good men to work, with perhaps a few minor changes until such time as the purchaser wishes to enlarge the present mill. All tunnels are in good workable condition and dry. \$3,000.00 should be ample working capital to begin this mine operating plus the purchase of a filter.
31. IF PROPERTY FOR SALE, PRICE, TERMS, AND ADDRESS TO NEGOTIATE: Property is for sale, \$25,000 cash or \$50,000 with \$10,000 cash and balance on royalty basis with minimum of \$150 monthly and with guarantee of additional ore bodies being opened while present developed ore body is being worked.

June 1, 1943

4-H:EMH

Mr. F. H. Hayes, Assistant Chief,  
Primary Production Branch,  
Copper Division,  
War Production Board,  
Washington, D. C.

Dear Mr. Hayes:

Mr. Earl Hastings has turned over to me your letter of May 27 regarding serial number for the Arizona Homestead Mine at Payson, Arizona.

This property is equipped with a mill capable of handling 35 to 40 tons a day. Mr. W. P. Kimo claims to have 31,000 tons of ore produced which will average \$14.75 in gold and 2.25% in copper. He has made no shipments to my knowledge, but plans to ship concentrates.

At the present time he is having difficulty settling the fines from his flotation machine and is seeking a filter. Application for a mine loan was made on this property for development, and I believe it was rejected. There are three or four men at work on the property trying to overcome the difficulties of settling the fines from their concentrates.

If there is any additional information needed, I will be glad to try to furnish it.

Best wishes and kindest regards,

Very truly yours,

J. S. Coupal, Director

JSC:EM



*duplicate  
10/18/43 Report  
Page 2*

22; Mine Workings; Amount condition.

The present development consists of a 135' crosscut tunnel running east and west; this tunnel crosscut a vein of ore at 50' which has never been explored but outcroppings on the surface indicate gold, silver and copper quartz. At 100' the tunnel crosscut the main vein of gold, copper, silver and lead ore, then continues 35' further to a splendid spring of water which has been piped to the mill. On the main vein, a north drift was run of approx 110' with values in gold, copper, silver running as high as \$27.10. Samples were taken by channel cutting the width of the vein. Ed. Eisenhauer, Jr. of Los Angeles, prepared most of the assays and flow sheets, a copy attached hereto. At the intersection of the crosscut and the main vein, a raise was made to the surface of 88½', all on ore with width at the surface of 42". This vein can be followed north over the hill and boldly outcrops all the way with small open cuts made at the outcroppings - showing the same type of ore - gold, copper, silver quartz. 550' over this hill from the raise, a 30' tunnel was driven on the vein. I estimate approximately 31,000 tons of ore blocked in this body alone. An average of ten samples obtained from the north drift and the raise yielded an average value of \$14.59 which included an average of 2% copper. This average value would give the blocked ore body a value of approx. \$400,000.00.

From the crosscut tunnel, a south drift was made of 265'. 13' from the crosscut, a fault was encountered which pinched the vein to 4 to 5 inches. However, small values of gold and silver were found all the way. a 30' crosscut drift was run southwest and a value of this ore ran \$19.56 and showed 5.4% copper. Should this 265' south drift be extended, it should cut the main copper bearing vein which strikes south 30 degrees west, for at the shaft which was sunk on this vein, which is in a small canyon, showed splendid copper values. This shaft was 48' deep but has filled with water and sediment to within 25' of the collar. This shaft is located on Blue Bell # 3. See longitudinal map for values of this shaft. Crossing this small canyon, the main quartz vein again appears in place and this vein can be traced over the entire claim of Blue Bell # 3 and the width of this vein is about 30 to 36 inches.

On Francis claim another shaft was sunk on the copper vein of approximately 55'. being filled with water, good samples have not been taken. but surface showings indicate .75% to 2.65% copper with some gold and silver. An 8 foot vein outcrops on the Blue Bell # 5 claim but was not explored. on Blue Bell 6 another 4' vein appears on the surface and a chimney of quartz shows on this claim. Blue Bell 1 and 2 both show ore veins, with a large vein of silver near the Center Creek end of the claim. Edna shows an open cut of ore. Blue Bell 2 shows a caved tunnel some 300' in length old workings. An open cut shows good copper, silver and gold quartz and resembles the ore from the main workings.

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The main vein and raise are almost vertical. The shaft on Blue Bell # 3 claim dips northeasterly at about 47 degrees, The shaft on Francis claim is vertical

The ore bin is 4' X 8' X 10½'.

All tunnels, are clean, in good workable condition and need no timbering.

See Map of claims for workings.

January 22, 1941

Sample #7--Raise in No Drift. .42 oz. gold 2.08 oz. silver. Total value \$16.18  
Sample #7A--No. Breast " .44 " " 1.56 " " " " 16.51

January 25, 1941

Subject--Concentration Test

Heads	.43 oz. gold	\$15.05	1.77 oz. silver	\$1.26	.45% copper
Concentrates	3.54 "	123.90	10.65 "	7.56	1.54% copper
Middlings	.35 "	12.25	1.35 "	.96	
Tailings	.12 "	4.20	.56 "	.41	

Distribution by weight

Heads	100%
Concentrates	8.90%
Middlings	10.00%
Tailings	81.10%

Indicated Extraction

Gold	72.1%
Silver	67.6%

The ore was milled to -30 mesh and concentrated on Wilfley concentrating table. The concentrates separated very cleanly and it is doubtful if much value was lost in the coarse sands. However, it was noticed that the slimes did show a large amount of sulphides so that it is possible that by floating the slimes a much better saving can be made.

Ed. Eisenhauer, Jr., Assayer

Subject--Flotation Test of Ore

Sept. 26, 1941

Heads	.26 oz. gold	\$9.10	.10 oz. silver	\$0.07
Middlings	.75 "	26.25	.10 "	.28
Concentrates	22.24 "	778.40	3.70 "	2.63
Tailings	.03 "	1.05	.06 "	.04

Gold Distribution

	By weight	By value
Middlings	1.10%	2.14%
Concentrates	1.00%	85.54%
Tailings	97.90%	11.32%
ph concentration	7.4	W/S Ratio 4 to 1

In making this test the ore was milled in a ball mill for 25 minutes with the addition of .10 lbs Aerofloat #31. A screen analysis showed that 93.4% of the ore was minus 100 mesh with the remaining portion being all minus 60 mesh. After discharge from the ball mill, the ore was floated in a Denver Sub A flotation cell after the first having been conditioned for ten minutes with 1 lb. sodium sulphide. The additional .10 lbs. of Aerofloat #31 together with the Xanthate and Pine oil were then added and flotation carried out with the concentrates being removed in 8 minutes and the middlings in an additional 10 minutes. The character of the froth was excellent and the concentrates very clean. The major portion of the concentrates seemed to have come over within the first 3 minutes of flotation.

Assay Certificates of November 9, 1941

Sample #11	No. Drift composites	.20 oz. gold	1.50 oz. silver	2.25% copper	\$15.71
12	30" drift off So.drift.	.01	1.20	5.40% "	19.56
13	Rock creek copper shaft	.04	2.55	2.85% "	12.55

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

Mine OLE CASTERSON (Cross Reference )  
(Blue Bell Mining Co.) ✓ Date March 6, 1956  
(Arizona Homestake) ✓  
District MAZATZAL, GILA COUNTY ✓ Engineer B. J. SQUIRE  
Subject: Activity Report

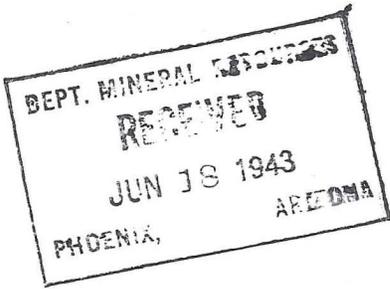
The Blue Bell Mining Company property is reached by going 3 miles up Rye Creek, turning left up the Collum Mine road, 2 miles from Collum Cabin go up the Ole Casterson Mine Road, total of 7 miles from Payson - Roosevelt Road. The claims originally consisted of 12 unpatented lode claims but more have been added in recent months. They lie in S16T9NR9E, un-surveyed and are now called Blue Bell Claims.

✓  
The owner is Blue Bell Mining Company  
✓ Wilson & VanSant  
4242 N. 19th Avenue  
Phoenix, Arizona

Geology and Mineralization - Monzonite porphyry and hornblende diorite intrude the precambrian complex. The veins are on the contact between these dikes and consist of 4 nearly vertical parallel quartz veins strike NNW - 2 to 4 feet wide with a very long prominent outcrop. The ore at depth is complex sulphides carrying up to 3% Cu, 4% Pb and considerable gold.

Ore Developed - About 30,000 tons in the old workings which include two 150' cross cuts and several hundred feet of drifting and raising which is accessible.

Current Operations - George Poteet of Prescott, working for the owners with one other employee is within 20 feet of cutting the main vein in a 425' long crosscut at a 150 foot lower and much more accessible location. A good road has been repaired into the mine and the crosscut run during the last six months. One small vein in the monzonite was cut, about 20 feet from mouth of crosscut. It is only 18" wide but of good looking grade of copper. No assays available.



WAR PRODUCTION BOARD

WASHINGTON, D. C.

June 14, 1943

IN REPLY REFER TO:

4-H:FHH

Mr. J. S. Coupal  
Director  
Department of Mineral Resources  
413 Home Builders Building  
Phoenix, Arizona

Dear Mr. Coupal:

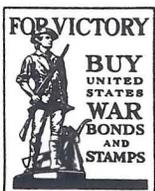
✓ Thank you for your letter of June 1 regarding the Arizona Homestake Mine. We would appreciate it if you will keep us informed of developments at this property during the next six months.

With best regards,

Yours very truly,

A handwritten signature in cursive script, appearing to read "F. H. Hayes".

F. H. Hayes  
Assistant Chief  
Primary Production Branch  
Copper Division



# WAR PRODUCTION BOARD

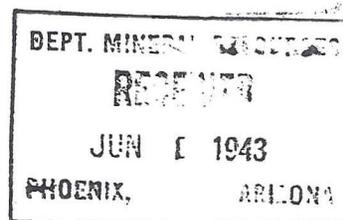
WASHINGTON, D. C.

May 27, 1943

IN REPLY REFER TO:

4-H:FHH

Mr. Earl F. Hastings  
Projects Engineer  
Department of Mineral Resources  
413 Home Builder's Building  
Phoenix, Arizona



Dear Earl:

The Mining Equipment Division, War Production Board has a request for a mine serial number from the Arizona Homestake property at Payson, Arizona signed by a W. F. Kime of Payson.

The Mining Equipment Division has asked us for a recommendation regarding the issuance of this serial number and the continuance of such a serial number.

I presume that your office has some record of this operation and we would appreciate it if you would let us know just what work is being done and what the possibilities are for copper production.

We understand that they have a shaft less than 100' deep and about 265' of level work and that they have a small reserve of ore which will run approximately 3% copper, 4% lead, about 1 oz. gold and some 5 ozs. of silver. If you could let us know the tonnage and grade that is being shipped and the smelter to which the ore is being sent and the number of men employed we would like to have that information.

With best regards,

Yours sincerely,



F. H. Hayes  
Assistant Chief  
Primary Production Branch  
Copper Division



# IRON KING ASSAY INC.

Page 1

16-Apr-86

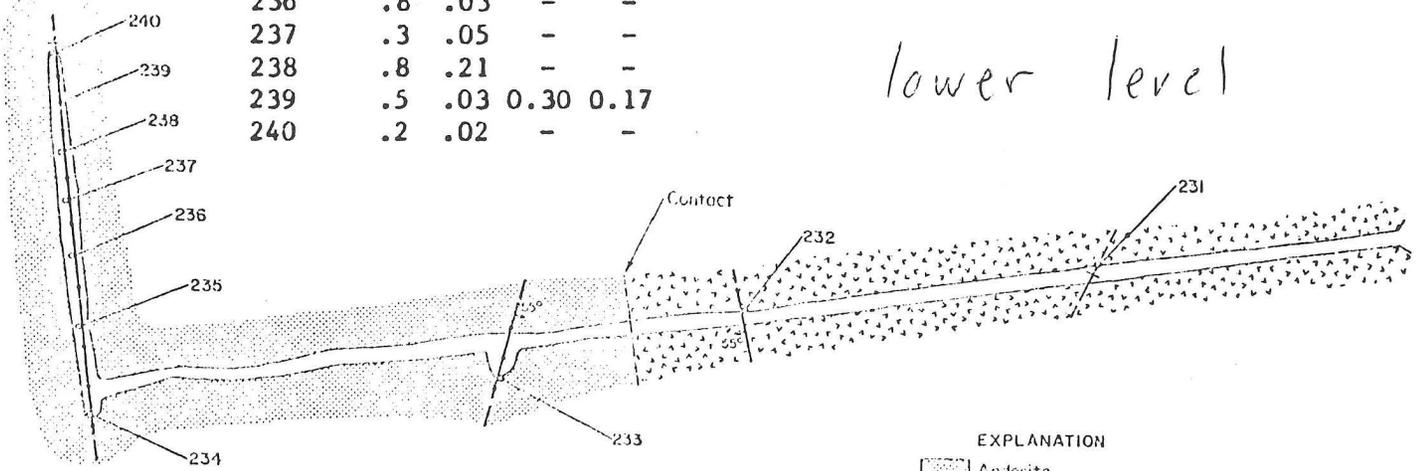
LAB JOB #: MSC00612  
Client name: Ron Phillips  
Billing address: PO Box 242  
Payson, AZ 85547  
No. Samples: 2  
Date Received: 4-03-86  
Submitted by: same  
Phone number: PAID

## ANALYTICAL REPORT

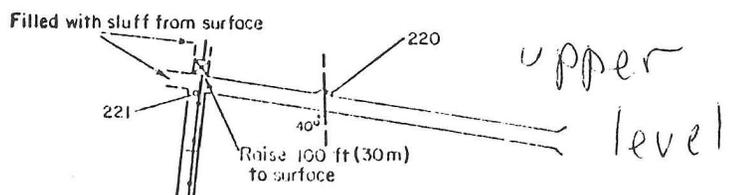
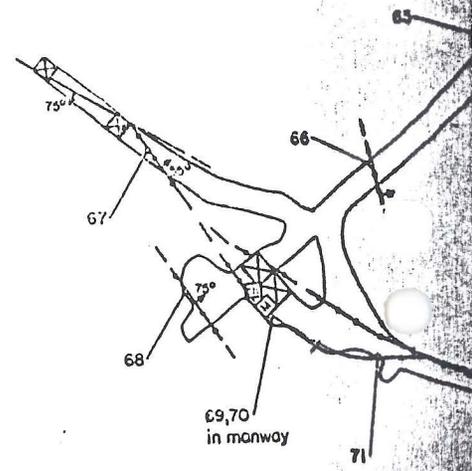
Client ID	Lab ID	Fire Assay		AA	Cu wt%	
		Au oz/ton	Ag oz/ton			
MSC00612						
1	04-03- 1	<.001	0.64		0.045	HAND SORTED SAMPLE OF DUMP MATERIAL.
Pulp (1-9-15)	04-03- 2				11.000	Cu ASSAY ON PULP OF SAMPLE PREVIOUSLY SUBMITTED FOR Au & Ag.

Sample #	Ag	Au	Cu	Pb
231	-	-	-	-
232	-	-	-	-
233	0.4	-	-	-
234	.4	0.05	-	-
235	.7	.16	-	-
236	.8	.03	-	-
237	.3	.05	-	-
238	.8	.21	-	-
239	.5	.03	0.30	0.17
240	.2	.02	-	-

lower level



EXPLANATION  
 Andesite  
 Granite



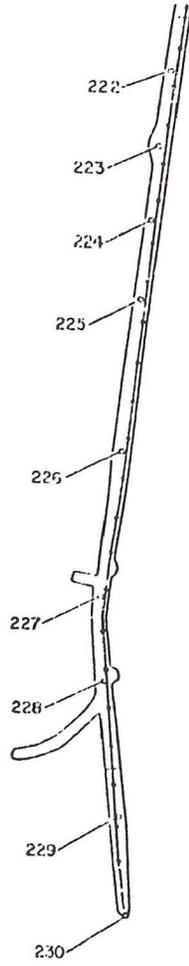
upper level

From Ellis Clarence E (1982)  
 U.S. B.M. M.L.A. 56-82

Sample #	oz/ton		%		
	Ag	Au	Cu	Pb	Zn
220	-	-	-	-	-
221	0.1	-	0.53	-	-
222	.4	-	-	-	-
223	.2	0.01	.15	-	-
224	.5	.02	-	-	-
225	.4	.01	-	-	-
226	.4	-	-	-	0.32
227	.4	.02	-	-	-
228	.1	.01	-	-	-
229	1.5	.82	2.75	0.62	-
230	-	-	-	-	-

Partial

Raise 100 ft (30m)  
to surface



Sample #	oz/ton		%		
	Ag	Au	Cu	Pb	Zn
220	-	-	-	-	-
221	0.1	-	0.53	-	-
222	.4	-	-	-	-
223	.2	0.01	.15	-	-
224	.5	.02	-	-	-
225	.4	.01	-	-	-
226	.4	-	-	-	0.32
227	.4	.02	-	-	-
228	.1	.01	-	-	-
229	1.5	.82	2.75	0.62	-
230	-	-	-	-	-

upper level

From Ellis, Clarence E. (1982)  
USBM MLA 56-82

F O R E S T

Caved

INDIAN MESA



Handwritten signature or initials in the bottom right corner.

MS 12

# IRON KING ASSAY INC.

Page 1

10-Jan-86

LAB JOB #: MSC00355

Client name: Ronald M. Phillips      No. Samples: 1

Billing address: PO Box 242      Date Received: 1-09-86

Payson, AZ 85541      Submitted by: same

Phone number: 474-5026      PAID

## ANALYTICAL REPORT

Client ID	Lab ID	Fire Assay		AA
		Au oz/ton	Ag oz/ton	Pt wt%
MSC00355				
-----				
	1 01-09- 15	0.060	3.34	<.01

*Sample from upper "copper vein" on Easterson Mine  
[Blue Bell (file), Gila County]. Has been resubmitted  
for a copper assay 4-1-86*

**RECEIVED**  
MAR 11 1986  
DEPT. OF MINES &  
MINERAL RESOURCES

*Robert C. ...  
1-13-86*

y

RENO METALLURGY RESEARCH CENTER  
SPECTROGRAPHIC LABORATORY REPORT

SUBMITTED BY-DENVER

DATE COMPLETED-07/13/79

DATE SUBMITTED-07/09/79

OPERATOR-MHW

RUN NO.-550-#27

	231	232	233	234	235	236	237	238
				55		55	56	57
	D9-512	D9-513	D9-514	D9-515	D9-516	D9-517	D9-518	D9-519
Field #s	50	51	52	53	54			

ELEMENTS

CONCENTRATION, PERCENT

ELEMENTS	231	232	233	234	235	236	237	238
AG	<.02	<.01	<.02	<.03	<.03	<.04	<.02	<.01
AL	>4.	>4.	>6.	>4.	>3.	1.	>6.	>5.
AS	<.02	<.04	<.03	<.07	<.04	<.03	<.06	<.009
AU	<.002	<.002	<.002	<.004	<.002	<.002	<.003	<.003
B	.02	.02	.02	.02	.01	.01	.02	.02
BA	.03	.04	.03	.03	.05	.03	.03	.2
BE	<.0001	<.0001	<.0001	<.0002	<.0001	<.0001	<.0001	.0003
BI	<.01	<.02	<.01	<.01	<.01	<.01	<.01	<.02
CA	<.1	<.05	1.	.9	.9	.5	.4	.8
CD	<.0005	<.0005	<.0005	<.0005	<.0005	<.0005	<.0005	<.0005
CO	.004	.007	<.001	<.003	.006	.009	<.003	<.002
CR	.005	.005	.004	.006	.006	.01	.005	<.001
CU	<.0006	<.0006	.05	.3	.5	.1	.2	.6
FE	2.	2.	6.	4.	4.	3.	4.	6.
GA	<.001	<.001	<.0003	<.0007	<.001	.002	<.001	<.0006
K	3.	<2.	<.6	<.8	<.6	<2.	<2.	<2.
LA	<.02	<.01	<.01	.04	.08	.07	<.01	<.01
LI	<.005	<.002	.009	>.2	>.1	>.05	.02	>.04
MG	.3	.4	2.	.2	.3	.2	.4	.2
MN	.04	.06	.1	.03	.03	.02	.1	.1
MO	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
NA	<.3	<.3	4.	<.3	<.5	<.3	<.3	<.3
NB	<.007	<.007	<.009	<.01	<.009	<.007	<.01	<.009
NI	.002	.002	.002	.002	.003	.004	.003	.003
P	<.7	<.7	<.7	<.7	<.7	<.7	<.7	<.7
PB	<.002	<.003	<.002	2.	.9	2.	.3	1.
✓ PD	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
✓ PT	<.003	<.003	<.001	<.002	<.004	<.007	<.002	<.0009
SB	<.06	<.06	<.06	<.06	<.06	<.06	<.06	<.06
SC	<.0004	<.0004	<.0004	<.0004	<.0004	<.0004	<.0004	<.0004
SI	>10.	>10.	>10.	>10.	>10.	>10.	>10.	>10.
SN	<.002	<.002	<.003	<.003	<.003	.003	<.006	<.005
SR	<.0001	<.0001	.009	.0002	.0002	.0002	<.0001	.0003
TA	<.02	<.02	<.02	<.02	<.02	<.02	<.02	<.02
TE	<.04	<.04	<.04	<.06	<.04	<.04	<.04	<.05
TI	.3	.3	.4	.2	.3	.4	.4	.2
U	.04	.04	.04	.04	.04	.06	.05	.02
Y	<.0009	<.0009	<.0009	<.0009	<.003	<.002	<.0009	<.0009
ZN	.002	.001	.005	.005	.01	.002	.002	.05
ZR	.01	.02	.004	.005	.01	.02	.008	.004

REMARKS

ATTENTION  
TAL

9

REN0 METALLURGY RESEARCH CENTER  
SPECTROGRAPHIC LABORATORY REPORT

SUBMITTED BY-DENVER  
DATE SUBMITTED-07/09/79

DATE COMPLETED-07/16/79  
OPERATOR-DGM  
RUN NO.--550-#27

pen File #s

		SAMPLE NUMBERS							
		D9-520	D9-521	D9-522	D9-523	D9-524	D9-525	D9-526	D9-527
		239	240	220	221	222	223	224	225
ELEMENTS		CONCENTRATION, PERCENT							
Field #s	M-	58	59	60	61	62	63	64	65
AG		<.05	<.009	<.05	<.02	<.01	<.03	<.0005	<.0005
AL		>5.	>5.	>4.	>4.	>5.	>3.	>3.	>2.
AS		<.009	<.009	<.009	<.04	<.03	<.04	<.03	<.03
AU		<.002	<.002	<.002	<.002	<.002	<.002	<.002	<.002
B		.02	.02	.01	.02	.04	.01	<.008	<.006
BA		.06	.02	.06	.02	.03	.05	.004	<.002
BE		<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
BI		<.01	<.02	<.02	<.02	<.02	<.01	<.01	<.01
CA		1.	4.	.1	2.	3.	.1	<.05	<.05
CD		<.0005	<.0005	<.0005	<.0005	<.0005	<.0005	<.0005	<.0005
CO		.01	<.001	.01	<.001	<.001	.008	<.001	<.001
CR		.004	<.0009	.01	.008	.003	.009	<.0008	<.0008
CU		.2	.09	.09	.4	.03	.2	.02	.02
FE		5.	6.	9.	4.	7.	5.	3.	3.
GA		.002	<.0002	.002	<.0002	<.0002	<.001	<.0002	<.0002
K		3.	9.	<.6	4.	3.	<.6	6.	<1.
LA		<.01	<.01	<.01	<.01	<.01	<.02	<.01	<.01
LI		.02	<.002	<.002	<.002	<.002	.01	<.002	.009
MG		.2	.6	.4	.3	.7	.09	.07	.03
MN		.2	.2	.7	.1	.5	.1	.02	.01
MO		<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
NA		<.3	<.3	<.3	<.3	<.3	<.3	<.3	<.3
NB		<.04	<.007	<.007	<.007	<.007	<.007	<.007	<.007
NI		.003	.0008	.004	.002	.002	.003	<.0002	<.0002
P		<.7	<.7	<.7	<.7	<.7	<.7	<.7	<.7
PB		.4	.2	.09	.02	<.002	.03	<.002	.01
PD		<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
PT		<.002	<.0006	<.009	<.0008	<.0006	<.006	<.0006	<.0006
SB		<.06	<.06	<.06	<.06	<.06	<.06	<.06	<.06
SC		<.0004	<.0004	<.0004	<.0004	<.0004	<.0004	<.0004	.001
SI		>10.	>10.	>10.	>10.	>10.	>10.	>10.	>10.
SN		<.005	<.001	<.004	<.001	<.002	<.002	<.0006	<.0006
SR		<.0001	.0008	<.0001	<.0001	.0002	<.0001	<.0001	<.0001
TA		<.02	<.02	<.02	<.02	<.02	<.02	<.02	<.02
TE		<.04	<.04	<.04	<.04	<.04	<.04	<.05	<.1
TI		.5	.2	.4	.2	.2	.2	<.03	<.03
V		.07	.02	.07	.02	<.01	.04	<.005	<.005
Y		<.0009	<.0009	<.0009	<.0009	<.0009	<.0009	<.0009	<.0009
ZN		.008	.004	.01	.009	.03	.008	.005	.006
ZR		.01	<.003	.02	<.003	<.003	.01	<.003	<.003

REMARKS

DATE  
ENTER

REM METALLURGY RESEARCH CENTER  
Petrographic Laboratory PO

4

SUBMITTED BY-DENVER  
DATE SUBMITTED-07/09/79

DATE COMPLETED-07/16/79  
OPERATOR-DGM

RUN NO.-550-#27

SAMPLE NUMBERS

D9-528 D9-529 D9-530 D9-531 D9-532 D9-533 D9-534 D9-535

226 227 228 229

ELEMENTS CONCENTRATION, PERCENT

Field #s	M- 66	67	68	69	70	71	72	73
AG	<.0005	<.0005	<.002	<.001	<.0005	<.0005	<.03	<.03
AL	>4.	>3.	>4.	>3.	>5.	>5.	>4.	>5.
AS	<.009	<.05	<.02	<.03	<.02	<.03	<.03	<.04
AU	<.002	<.002	<.002	<.002	<.002	<.002	<.002	<.002
B	.01	.02	.01	.02	.01	.02	.01	.008
BA	.003	.02	.02	.007	.05	.05	.02	.08
BE	<.0001	<.0002	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
BI	<.02	<.01	<.03	<.02	<.02	<.03	<.01	<.03
CA	2.	<.09	.1	1.	4.	<.05	2.	.6
CD	<.0005	<.0005	<.0005	<.0005	<.0005	<.0005	<.0005	<.0005
CO	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.002
CR	<.0008	<.0008	<.0008	<.0008	<.0008	.004	.009	.005
CU	.02	.05	.02	9.	.02	.001	.002	<.0006
FE	7.	5.	6.	5.	5.	5.	4.	6.
GA	<.0002	<.0002	<.0002	<.0002	<.0002	<.0002	<.0004	<.0004
K	<.6	5.	9.	5.	<.6	3.	<.6	<.6
LA	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
LI	<.002	<.005	<.002	<.002	<.002	<.002	<.002	<.002
MG	.7	.09	.5	.2	1.	1.	1.	2.
MN	.7	.03	>2.	.1	.1	.1	.08	.4
MO	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
NA	<.3	<.3	<.3	<.3	<.3	<.3	<.8	5.
NB	<.007	<.007	<.007	<.007	<.007	<.007	<.007	<.007
NI	<.0002	<.0002	<.0004	<.0002	<.0002	.0008	.002	.002
P	<.7	<.7	<.7	<.7	<.7	<.7	<.7	<.7
PB	.04	.06	<.005	.7	.05	<.002	<.002	<.002
PD	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
PT	<.0006	<.0006	<.0006	<.0006	<.0006	<.0006	<.002	<.002
SB	<.06	<.06	<.06	<.06	<.06	<.06	<.06	<.06
SC	<.0004	<.0004	<.0004	<.0004	<.0004	<.0004	<.0004	<.0004
SI	>10.	>10.	>10.	>10.	>10.	>10.	>10.	>10.
SN	<.0006	<.0007	<.002	<.001	<.0006	<.0006	<.002	<.003
SR	.0008	<.0001	.0002	<.0001	.003	.0006	<.0001	.001
TA	<.02	<.02	<.02	<.02	<.02	<.02	<.02	<.02
TE	<.04	<.05	<.04	<.04	<.04	<.04	<.04	<.04
TI	<.03	<.03	<.06	<.03	<.05	.2	.3	.5
V	<.005	<.005	<.005	<.005	<.005	<.005	.02	.03
Y	<.0009	<.0009	<.0009	<.0009	<.0009	<.0009	<.0009	<.0009
ZN	.1	.08	.03	.01	.04	.008	.02	.01
ZR	<.003	<.003	<.003	<.003	<.003	<.003	.005	.003

REMARKS

2

RENO METALLURGY RESEARCH CENTER  
SPECTROGRAPHIC LABORATORY REPORT

SUBMITTED BY-DENVER  
DATE SUBMITTED-07/09/79

DATE COMPLETED-07/18/79  
OPERATOR-MHW

RUN NO.-550-#27

ELEMENTS	SAMPLE NUMBERS							
	D9-560	D9-561	D9-562	D9-563	D9-564	D9-565	D9-566	D9-567
		230	219					
		100	101	102	103	104	105	106
Field #s M-99								
AG	<.01	<.005	<.007	<.02	<.0005	<.0005	<.08	<.0006
AL	>5.	>3.	>3.	>5.	>6.	>6.	>4.	>7.
AS	<.04	<.02	<.009	<.04	<.05	<.04	<.05	<.07
AU	<.002	<.002	<.002	<.002	<.002	<.002	<.003	<.002
B	<.004	.01	.01	<.005	.009	<.004	<.004	.01
BA	2.	.03	1.	.1	.2	.03	.09	.2
BE	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
BI	<.02	<.01	<.02	<.01	<.01	<.01	<.01	<.01
CA	8.	4.	<.05	.4	<.05	1.	.3	<.05
CD	<.0005	<.0005	<.0005	<.0005	<.0005	<.0005	<.0005	<.0005
CO	<.004	<.002	.004	.01	<.001	<.001	.02	<.001
CR	.004	<.001	<.002	.01	<.0008	<.0008	.03	<.0008
CU	.002	.01	.2	.003	.02	.01	.002	.004
FE	5.	4.	4.	5.	5.	7.	5.	7.
GA	<.0006	<.0002	<.0004	.003	<.0003	<.0002	.007	<.0004
K	<.6	3.	3.	<.6	<2.	<.6	<.6	3.
LA	<.01	<.01	<.01	.04	<.01	<.01	.1	<.01
LI	.02	<.002	<.002	.02	<.002	<.002	.02	<.002
MG	2.	.6	.1	1.	.9	2.	1.	2.
MN	.2	.2	.04	.2	.1	.3	.8	.8
MO	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
NA	<.3	<.3	<.3	<.6	<.3	<.3	<1.	<.3
NB	<.007	<.007	<.007	<.01	<.03	<.007	<.01	<.007
NI	.002	.001	.001	.004	<.0003	<.0006	.008	<.0005
P	<.7	<.7	<.7	<.7	<.7	<.7	<.7	<.7
PB	<.002	<.002	.05	<.002	<.002	<.002	<.006	<.002
PD	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0002	<.0001
PT	<.0007	<.0006	<.0008	<.005	<.0006	<.0006	<.02	<.0006
SB	<.06	<.06	<.06	<.06	<.06	<.06	<.06	<.06
SC	<.0004	<.0004	<.0004	<.001	<.0004	<.0004	.002	<.0004
SI	>10.	>10.	>10.	>10.	>10.	>10.	>10.	>10.
SN	<.002	<.0006	<.0008	<.002	<.002	<.001	<.006	<.0006
SR	.02	.002	.01	.0007	<.0001	.004	.0002	<.0001
TA	<.02	<.02	<.02	<.02	<.02	<.02	<.02	<.02
TE	<.04	<.04	<.04	<.04	<.04	<.04	<.04	<.04
TI	.3	.2	.2	.4	.1	.3	.7	.2
V	.04	.02	.03	.07	<.01	.03	.1	.02
Y	<.0009	<.0009	<.0009	<.001	<.0009	<.0009	.004	<.0009
ZN	.01	.002	<.0004	<.0002	.003	<.0009	.02	.1
ZR	.007	.005	.006	.02	.003	<.003	.05	.006

REMARKS

## ANALYTICAL REQUEST

1 of 2

FOC IFOCDate Submitted 7/22/80  
~~7/29/80~~

Date Completed \_\_\_\_\_

Project Mazatzal Contig + Fossil SpringsDate Received (TSL ~~Pano~~) \_\_\_\_\_

Date Received (FOC) \_\_\_\_\_

Submitted by C. Ellis RARE II

Analyst \_\_\_\_\_

Line No.	FOC Lab No.	FOC Field No.	Individual Determinations Required <sup>a</sup>																		
			Spec.	Au	Ag	U <sub>3</sub> O <sub>8</sub>	Cu														
				oz/t; ppm	oz/t; ppm	%; ppm	%; ppm	%; ppm	%; ppm	%; ppm	%; ppm	%; ppm	%; ppm								
1	IR-393	M 559				165	✓														
2	" 394	560	✓	<0.01	0.2	✓	23	✓	2.42	✓											
3	" 395	561				12	✓														
4	" 396	562				18	✓														
5	" 397	<sup>FS1</sup> 563				4	✓	<0.01	✓												
6	" 398	<sup>FS2</sup> 564				2	✓	<0.01	✓												
7	" 399	565	✓	<0.01	0.7	✓															
8	" 400	<sup>FS3</sup> 566	✓	0.01	0.2	✓	5	✓	0.01	✓											
9	" 401	<sup>FS4</sup> 567				3	✓	0.02	✓												
10	" 402	568	✓	<0.01	0.2	✓															
11	" 403	569	✓	<0.01	<0.2	✓															
12	" 404	570	✓	<0.01	<0.2	✓	241														
13	" 405	571	✓	0.14	6.3	✓	242														
14	" 406	572	✓	0.02	<0.2	✓															
15	" 407	573	✓	<0.01	<0.2	✓															

<sup>a</sup>For normal fire assay, circle oz/t; for FA-AA, circle ppm. For radiometric U<sub>3</sub>O<sub>8</sub>, circle %; for fluorometric U, circle ppm.

REMARKS:

Casterson Mine

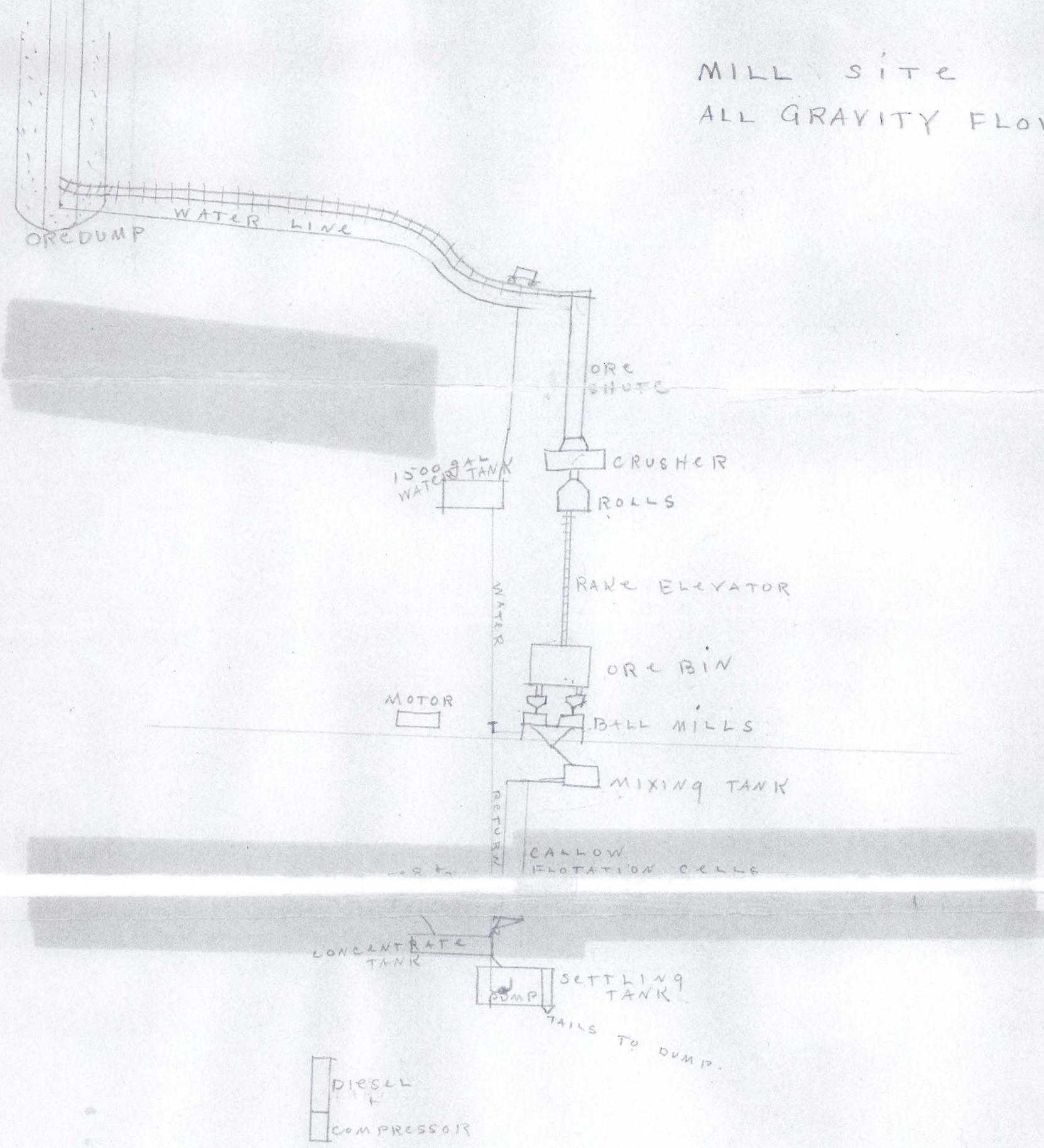
Both levels of Casterson Mine had sluff at the portals damming water to over knee deep. Lower level had heavy water flow from the vein. Upper level has a lot of sluff below the raise to surface. Right drift was blocked. Water was dammed hip deep in left drift. Air was a little strange post sample location 225.

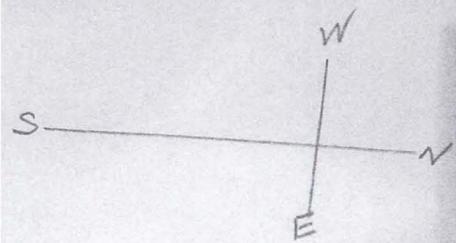
RECEIVED  
MAR 25 1986  
DEPT. OF MINES &  
MINERAL RESOURCES

To: Ken  
From:  
USBM

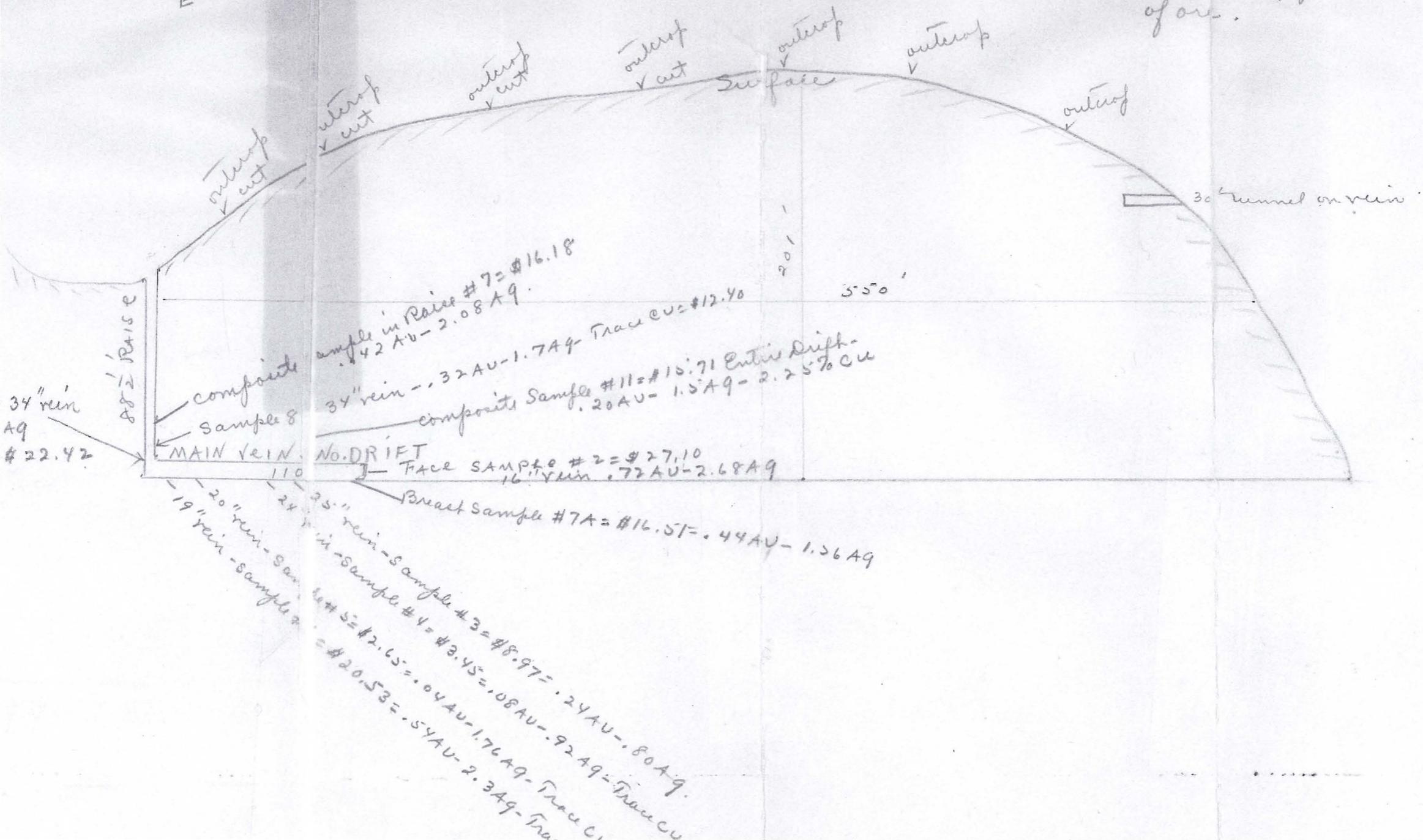
CROSS CUT  
TUNNEL 4400' ELEVATION

MILL SITE  
ALL GRAVITY FLOW

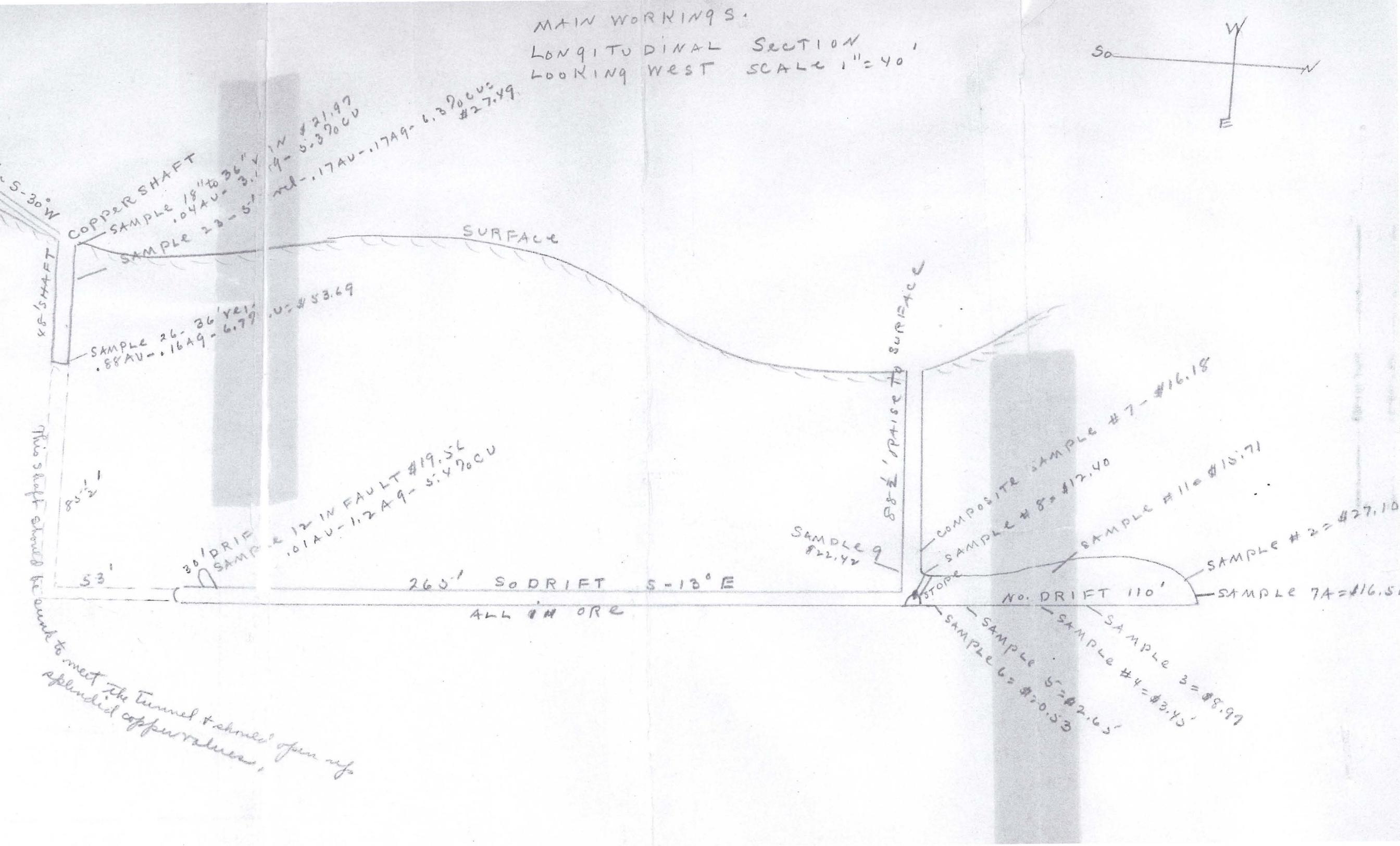
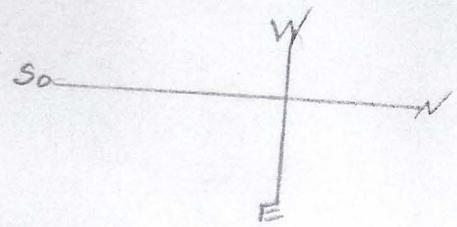




Blocked ore in No. Drift  
 Gold - Silver - Copper - Lead vein  
 42" - Approximately 31203 Ton  
 of ore.

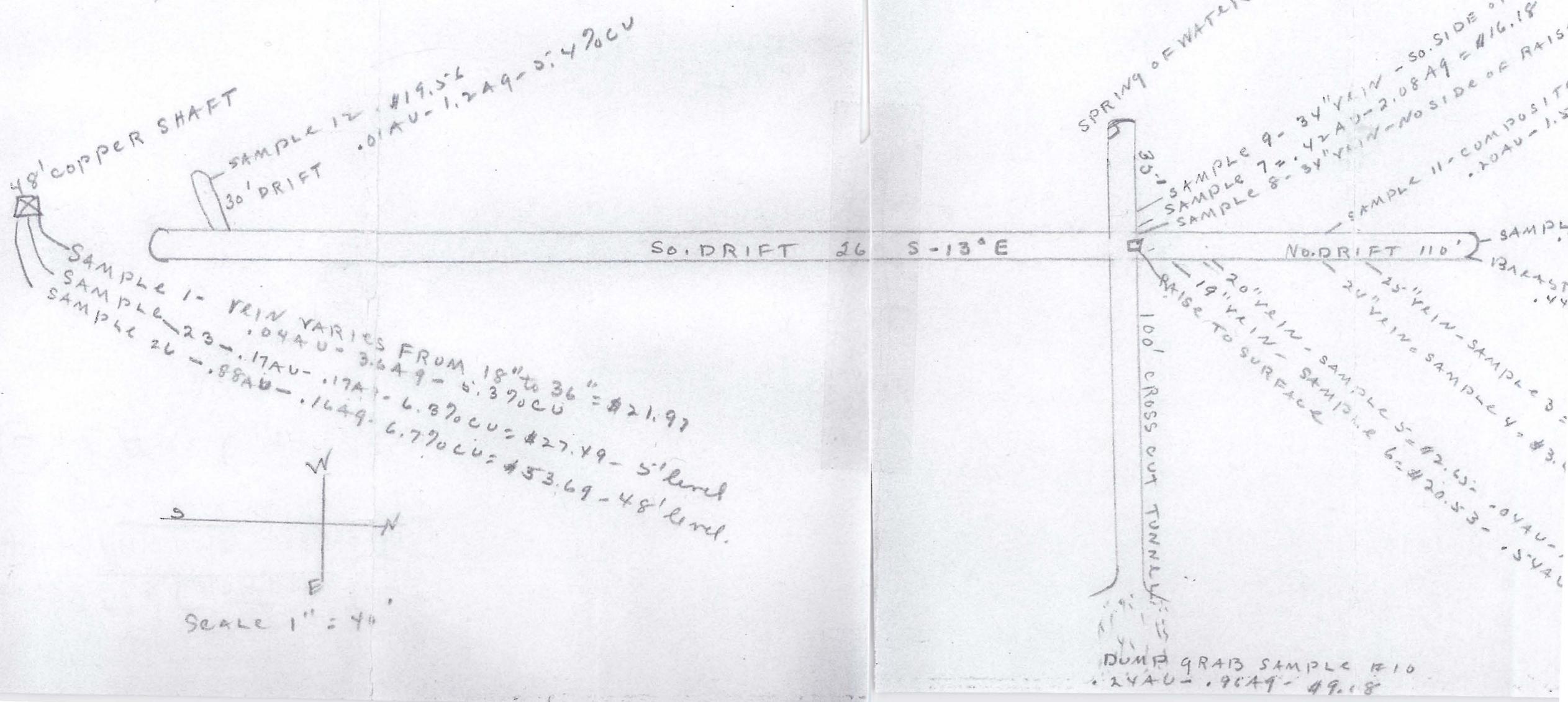


MAIN WORKINGS.  
 LONGITUDINAL SECTION  
 LOOKING WEST SCALE 1"=40'

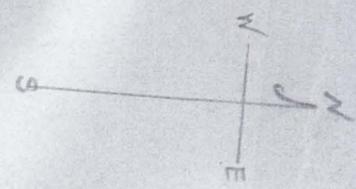


This shaft should be round to meet the tunnel & should open up splendid copper values.

# MAP OF MAIN WORKINGS.



# MAP OF CLAIMS



⊙ = POINT OF DISCOVERY  
 1 1/2" = 600'  
 \* = Highest point of claims

