



CONTACT INFORMATION

Mining Records Curator
Arizona Geological Survey
1520 West Adams St.
Phoenix, AZ 85007
602-771-1601
<http://www.azgs.az.gov>
inquiries@azgs.az.gov

The following file is part of the

Arizona Department of Mines and Mineral Resources Mining Collection

ACCESS STATEMENT

These digitized collections are accessible for purposes of education and research. We have indicated what we know about copyright and rights of privacy, publicity, or trademark. Due to the nature of archival collections, we are not always able to identify this information. We are eager to hear from any rights owners, so that we may obtain accurate information. Upon request, we will remove material from public view while we address a rights issue.

CONSTRAINTS STATEMENT

The Arizona Geological Survey does not claim to control all rights for all materials in its collection. These rights include, but are not limited to: copyright, privacy rights, and cultural protection rights. The User hereby assumes all responsibility for obtaining any rights to use the material in excess of "fair use."

The Survey makes no intellectual property claims to the products created by individual authors in the manuscript collections, except when the author deeded those rights to the Survey or when those authors were employed by the State of Arizona and created intellectual products as a function of their official duties. The Survey does maintain property rights to the physical and digital representations of the works.

QUALITY STATEMENT

The Arizona Geological Survey is not responsible for the accuracy of the records, information, or opinions that may be contained in the files. The Survey collects, catalogs, and archives data on mineral properties regardless of its views of the veracity or accuracy of those data.

06/27/97

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: SILVER CROWN

ALTERNATE NAMES:

SURPRISE
MONEY MAKER

YAVAPAI COUNTY MILS NUMBER: 157C

LOCATION: TOWNSHIP 11 N RANGE 3 W SECTION 8 QUARTER NW
LATITUDE: N 34DEG 18MIN 55SEC LONGITUDE: W 112DEG 35MIN 50SEC
TOPO MAP NAME: WALNUT GROVE - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

LEAD
GOLD
SILVER
COPPER

BIBLIOGRAPHY:

USGS WALNUT GROVE QUAD
ADMMR SILVER CROWN FILE
CLAIMS STAKED IN 1968 EXTEND INTO SEC. 5-7
AND 12 & 13 T11N-R4W

* GENERAL REFERENCES

file

REFERENCE 1 F1 < ABGMT USBM F DATA

REFERENCE 2 F2 < A2 DEPT MIN RESOURCES FILE DATA

REFERENCE 3 F3 <

REFERENCE 4 F4 <

U.S. CRIB-SITE FORM

RECORD IDENTIFICATION

RECORD NUMBER B10 < > RECORD TYPE B20 < X, 1, M > DEPOSIT NUMBER B40 < >
 REPORT DATE G1 < 8, 1, 1, 1, 1, 1 > INFORMATION SOURCE B30 < 1, 2, > FILE LINK IDENT. B50 < USBM -004 025 1757 >
 YR. MO.
 REPORTER(SUPERVISOR) G2 < ROTH, FRAMES A > (DEWITT, ED)
 (last, first, middle initial) (last, first, middle initial)
 REPORTER AFFILIATION G5 < ABGMT > SITE NAME A10 < SILVER CROWN MINE >
 SYNONYMS A11 < >

LOCATION

MINING DISTRICT/AREA A30 < WAGONER DISTRICT > STATE A50 < A2 > COUNTRY A40 < U.S. >
 COUNTY A60 < YAVAPAI >
 PHYSIOGRAPHIC PROV A63 < 1, 2, >
 DRAINAGE AREA A62 < 1, 5, 0, 7, 0, 1, 0, 3, >
 QUADRANGLE NAME A90 < WALNUT GROVE > (1, 9, 6, 9,)
 SECOND QUAD NAME A92 < > (, , , , ,)
 ELEVATION A107 < 4, 4, 0, 0, > F.T. > LAND STATUS A64 < 0, 0, >
 QUADRANGLE SCALE A100 < 2, 4, 0, 0, 0, >
 SECOND QUAD SCALE A91 < >

UTM
 NORTHING A120 < 3, 4, 9, 8, 0, 2, 0, >
 EASTING A130 < 3, 5, 3, 2, 3, 0, >
 ZONE NUMBER A110 < 1, 1, 2, >

* ACCURACY

ACCURATE ☒ (circle)
 ESTIMATED EST < >

GEODETIC

LATITUDE A70 < - - - - - N >
 LONGITUDE A80 < - - - - - W >

CADASTRAL

TOWNSHIP(S) A77 < 0, 1, 1, N, > RANGE(S) A78 < 0, 0, 3, W, >
 SECTION(S) A79 < 8 >
 SECTION FRACTION(S) A76 < NE OF NW >
 MERIDIAN(S) A81 < GILA AND SALT RIVER >

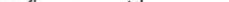
POSITION FROM NEAREST PROMINENT LOCALITY A82 < ABOUT 4 MILES EAST NORTHEAST FROM THE TOP OF BLACK MOUNTAIN >
 LOCATION COMMENTS A83 < UTM LOCATION MEASURED TO CENTER OF SHAFT AT THE END OF THE
 DIRT ROAD IN NORTHWEST OF SECTION 8. 2.4 MILES ENE OF MCMAHON SHAFT OF ZONIA MINE >

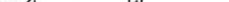
* ESSENTIAL INFORMATION

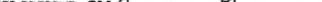
+ ESSENTIAL SOMETIMES OR HIGHLY RECOMMENDED

COMMODITIES PRESENT	C10	P.B. MAG. MCH. MZN.
ORE MINERALS	C30	LEAD, SILVER, GOLD, ANGLESITE, CERRUSSITE, GALENA
COMMODITY SUBTYPES	C41	
GEN. ANALYTICAL DATA	C43	
COM. INFO. COMMENTS	C50	AG

	PRODUCER
MAJOR PRODUCTS	MAJOR < P.B. B.A.G. >
MINOR PRODUCTS	MINOR < A.U. C.U. Z.N. >
POTENTIAL OCCURRENCES	POTEN < >
OCCURRENCES	OCCUR < >

MAIN COMMODITIES PRESENT C11 

MINOR COMMODITIES PRESENT C12 

OCCURRENCES OCCUR 

PRODUCTION YES (circle) PRODUCTION SIZE SM MED LGE (circle one)

PRODUCTION UND ~~NO~~ (circle one)

PRODUCER

NON-PRODUCER

STATUS AND ACTIVITY #A20<4>

STATUS AND ACTIVITY A20K1-12

DISCOVERER	L20			
YEAR OF DISCOVERY	L10	1880's	NATURE OF DISCOVERY L30	B
PRESENT/LAST OWNER	A12	CLARA M. STODDARD; C.D. AND VERA RIDELL (1962)		
PRESENT/LAST OPERATOR	A13	ORO LINO INC (1958)		
EXPL./DEV.COMMENTS	L110	PROPERTY COMPRISES 11 UNPATENTED CLAIMS		

DEPOSIT TYPE(S)	C40 <u>VEIN</u>										
DEPOSIT FORM/SHAPE	M10 <u>LENSES</u>										
DEPTH TO TOP	M20 <u> </u>			UNITS M21 <u> </u>			MAXIMUM LENGTH M40 <u>115</u>			UNITS M41 <u>FT</u>	
DEPTH TO BOTTOM	M30 <u>400</u>			UNITS M31 <u>FT</u>			MAXIMUM WIDTH M50 <u>400</u>			UNITS M51 <u>FT</u>	
DEPOSIT SIZE	M15 <u>SMALL</u> M15 <u>MEDIUM</u> M15 <u>LARGE</u> (circle one)						MAXIMUM THICKNESS M60 <u>15</u>			UNITS M61 <u>FT</u>	
STRIKE	M70 <u>NE</u>						DIP M80 <u>VERTICAL</u>				
DIRECTION OF PLUNGE	M100 <u> </u>						PLUNGE M90 <u> </u>				
DEP. DESC. COMMENTS	M110 <u> </u>										

Workings are: SURFACE M120 UNDERGROUND (M130) BOTH M140 (circle one) * OVERALL LENGTH M190 115 * UNITS M191 FT
 * DEPTH BELOW SURFACE M160 400 * UNITS M161 FT * OVERALL WIDTH M200 * UNITS M201
 * LENGTH OF WORKINGS M170 415 * UNITS M171 FT * OVERALL AREA M210 * UNITS M211
 DESC. OF WORK. COM. M220 WORKINGS CONSIST TWO OR MORE SHAFTS AND SEVERAL ADITS

* AGE OF HOST ROCK(S) K1<P.R.O.T. V. UNDATED, PROBABLY OLDER THAN 1750 MILLION YEARS

* HOST ROCK TYPE(S) K1A<SCHIST, PROBABLY META-SEDIMENTARY AND METAVOLCANIC

* AGE OF IGNEOUS ROCK(S) K2<P.R.O.T. V. AS LINE K1

* IGNEOUS ROCK TYPE(S) K2A<

* AGE OF MINERALIZATION K3<L.C.R.E.T.-T.E.R.T.V. UNDATED, PROBABLY PALEOCENE-MIOCENE

* PERT. MINERALS (NOT ORE) K4<QUARTZ, PYRITE

* ORE CONTROL/LOCUS K5<FAULTING, IGNEOUS ACTIVITY

* MAJ. REG. TRENDS/STRUCT. N5<FOLIATION IN PROTEROZOIC ROCKS TRENDS N40E TO N50E

* TECTONIC SETTING N15<

* SIGNIFICANT LOCAL STRUCT. N70<VEINS PARALLEL FOLIATION OR CROSS-CUT IT AT A SLIGHT ANGLE

* SIGNIFICANT ALTERATION N75<MINOR

* PROCESS OF CONC./ENRICH. N80<OXIDATION AND ENRICHMENT AT NEAR-SURFACE

* FORMATION AGE N30<P.R.O.T. V. UNDATED, PROBABLY OLDER THAN 1750 MILLION YEARS

* FORMATION NAME N30A<UNNAMED METAVOLCANIC AND METASEDIMENTARY UNITS

SECOND FM AGE N35<

SECOND FM NAME N35A<

* IGNEOUS UNIT AGE N50<

* IGNEOUS UNIT NAME N50A<

SECOND IG. UNIT AGE N55<

SECOND IG. UNIT NAME N55A<

GEOLOGY COMMENTS N85<DEPOSIT IS QUARTZ VEIN WHICH CUTS PROTEROZOIC SCHIST

GENERAL COMMENTS GEN<

SILVER CROWN MINE

YAVAPAI COUNTY

Hassiyampa

T11N R3W Sec 8

AS&R "C" file ?

Mining World Nov. 1961 p. 49

(Missing)

SILVER CROWN GROUP.

YAVAPAI COUNTY

RRB WR 11/18/83: George Medd of the Silver Crown Mines, Yavapai County, called to find someone to develop a flow sheet for him. He reports that they have rehabilitated the workings and have track in but they they will need a new hoist for men. He also reports that they have blocked out 7000 tons of ore in a vein 2 to 3 feet thick averaging 17% Pb, 15 oz/ton Ag and .05 oz/ton Au. He said that he had talked to Denver Equipment but that they just wanted to sell their equipment.

RRB WR 1/13/84: George Mead of the Silver Crown Mine, Yavapai County, reports that he is considering the use of Thiourea. He was referred to Kerley in Sahuarita.

MEMORANDUM FOR FILES

From: John H. Jett, Director

Subject: Silver Crown Mine

Date: May 15, 1979

The Arizona Michigan Mining Co., owners of the Silver Crown Mine, Walnut Creek Quad, have sold or leased the mine to two stockholders: a Mr. Frank Watson and a Mr. Newton. Mr. Newton resides at 206 N. Summit, Prescott, Arizona 86301 (Box 829).

They are planning on trying to work the mine. They were in the office on May 14, 1979, to obtain clarification on Bureau of Land Management Regulations.

Mr. Newton stated he attends the Prescott Mineral Resources Conferences.

Mr. Watson had Ken Phillips' card.

JHJ:mw

~~REDACTED~~
Mr. Rayner of Arizona-Michigan Mining Company has had a heart attack, therefore, the Crown Silver prospect is inactive. GW WR 5/24/72

Silver Crown Mine (Yavapai County); Mr. Dunivan reported the Silver Crown Mine has shut down and all equipment is for sale. Equipment includes: TD25 cat loader, underground hoist (capacity not reported), compressors, slushers, portable buildings, pumps, light plant and other miscellaneous tools and equipment. KP Report of 1/9/73

KP/WR 7/25/79 - Mr. Frank Watson, Prescott, reported on leasing problems involving the Silver Crown Mine, Placerita Dist. Yav. Co. He reported the claims are owned by Arizona-Michigan Mining Corp. and are leased to a Mr. Newton of Newton's Mines, who was to keep up annual assessment work and other details. Mr. Watson tried to assemble a financial deal with a group of California investors (airline pilots) but the Arizona-Michigan Corp. did not approve. Arizona-Michigan was to have received a 10% royalty, Newton 5% and Watson 5%. Watson further reported the mine was down to 300 feet and still in sulfides, but it would soon be through sulfides and into native silver at 600 feet as has been determined by drilling. 8/10/79 a.p.

KAP WR 5/21/80: Dan Jacobs reported that Paul A. Handverger, Registered Consulting Geologist, 13 Old Jerome Highway, Clarkdale, Arizona 86324, phone 634-8466, is going to look at the Silver Crown Mine, Yavapai County, for him.

RRB WR 6/25/82: Visited the Silver Crown Mine, Sec. 8, T11N R3W, Yavapai County. All shafts, adits, sheds, etc. padlocked and there was no sign of recent activity. There was a sign on the property with the following information: Arizona-Michigan Mining Co., Inc, Newell Newton, 206 N. Summit, Prescott, Arizona Phone 445-2678.

RRB WR 8/6/82: Jerry Crabb reports that he is trying to get the Silver Crown, Yavapai County going again and is looking for a market for the ore. He copied Silver Crown file.

Medd?

NJN WR 11/11/83: It was reported that George Mean, with Morning Glory Mining Company was getting ready to do some underground mining at the Silver Crown .*

SILVER CROWN MINE

YAVAPAI COUNTY

~~_____~~
Visited the Silver Crown mine near the Zonia and talked with Messrs. Akers, and Billings. Akers is a diamond driller. Mr. Rayner was not there. The mill was running with Billings evidently in charge. FPK WR 6-4-69

Visited several drill sites and obtained map, report made. FTJ WR 7-18-69

Active Mine List Oct. 1969 - 6 men

Visited Silver Crown - talked with man in shop - little information. 5 employed. FTJ WR 1-1970

Visited the Silver Crown - talked with man in shop who said work was as usual. FTJ WR 3-30-70

Visited Silver Crown - 7 employed in workings SE of main shaft. FTJ WR 5-22-70

Active Mine List May 1970 - 6 men

Visited the Silver Crown - there is little change. FTJ WR 7-24-70

Visited Silver Crown. Mr. Rayner was away from camp, man in shop said work developing underground. FTJ WR 9-18-70

Visited Silver Crown - Mr. Rayner took me into the 450 ft. crosscut he is driving to intersect a 9 ft. Au vein. He has 8 men working two shifts. According to his survey the objective should be reached in about 100 ft. GW WR 11-20-70

Active Mine List Oct. 1970 - 6 men

To Silver Crown mine - they are drifting in the lower tunnel. Mr. Rayner was not around. FTJ WR 1-22-71

To Silver Crown mine. They are still driving drift. FTJ WR 5-24-71

To Silver Crown #2 tunnel which is about 1½ miles southwest of main tunnel. Adit is in 800' and muck from face pulled out with slusher. No ore noted anywhere. FTJ WR 7-27-71

Exploratory work at the Silver Crown mine of the Arizona-Michigan Mining Co., continued; no production was reported. GW QR 9/71

Exploratory work at the Silver Crown mine continued. GW QR 2/72

SILVER CROWN MINE

YAVAPAI COUNTY

Visited Silver Crown operation. They are drifting on the 300 level, also doing some exploration drilling about a mile SW of shaft and adit. FTJ WR 9-22-67

Interview with Mr. Rayner at Silver Crown - they are repairing shaft between 3rd (190') level and 4th level (363'). 1st level is 30', 2nd level 130'. Distance from portal of adit to shaft - 480'. Core drilling from the surface has been difficult due to highly broken ground, but drilling continues. FTJ WR 11-24-67

Road to Silver Crown impassable. FTJ WR 1-19-68

Qualified for subsidy and received \$2,095. Subsidy on 28 tons of metal in 1962.
FPK Note

Active Mine List Nov. 1967 - 5 men

Visited with Langley Rayner at Silver Crown mine. Drilling from surface continues along with underground development and exploration. Unknown persons broke into their powder magazine, stealing powder, fuse, etc. They also tried to set fire to the building.
FTJ WR 3-22-68

Active Mine List April 1968 - Expl.

Visited Silver Crown where exploration from surface and underground continues.
FTJ WR 5-24-68

Visited Silver Crown - exploration on surface continues and crew of 3 underground timbering. FTJ WR 7-26-68

Visited Silver Crown - they are exploring area SE of main working close to Zonia. Also continue to work underground. FTJ WR 9-20-68

Active Mine List Oct. 1968 - 8 men

Visit Silver Crown. Very active - dozer cutting drill stations and general activity. Have opened up deposit 3000' of 15% (?) FTJ WR 11-22-68

Tried to go to Silver Crown - road impassable. They are still drilling. FTJ WR 1-24-69

Active Mine List April 1969 - 7 men - Langley W. Rayner, Mgr. Box 701, Prescott

~~SECRET~~

Underground exploration continues at the Silver Crown mine of the Arizona-Michigan Mining Company. Langley W. Rayner, Bos 701, Prescott, Arizona, is manager, employing a crew of seven at the silver-lead development.

Pay Dirt June 23, 1967

SILVER CROWN GROUP

~~Do Not Approve~~
YAVAPAI COUNTY

Visited the mine and mill and discussed the situation with Langley Rayner, Mgr. The mill was idle. The mine crew was cutting out a shaft station at the newly reached depth of 400'. 12 men are employed. Still and Still are making a geologic study and economic evaluation for the company. Memo TPL 9-27-61

Records at Recorder's office Prescott show this property given under name of Clara M. Stoddard - State of Arizona, C. D. & Vera Ridell. EGW 11-1962

RE: ~~Yavapai County~~

Visited Silver Crown mine and mill of Oro Fino Mining Co. The mill has run at intervals since my visit last summer. At the time of the visit milling had been resumed 2 days before and 8 men were employed in the mine and mill. Some mill revamping had been accomplished consisting principally of replacing the jaw crusher and the primary rolls with larger units; i.e. a 9"x18" Tel-smith crusher and a set of 24"x10" Allis Chalmers rolls; also three vibrating feeders were installed. A small amount of additional work has been done on the bottom level of the mine. A new well was put down in the draw at the foot of the mill and the management believes that the heretofore tight water supply problem is now solved. TPL WR 10-31-59

Interviewed Patsy Potter at his store at Kirkland Jct. He reports that the Oro Fino Mining Co. (operating the Silver Crown mine) has been reorganized and is now known as the Arizona Michigan Mining Company. There are no changes among the key operating personnel. The company plans to increase the scale of its operation. TPL WR 2-27-60

Visited the Silver Crown mine (Arizona Michigan Mining Co.) in the Kirkland district and discussed the operation with Langley Rayner, Box 701, Prescott. The mill runs 4 to 5 hours each day (5 days a week) handling about 15 tpd. Scarcity of water is a limiting factor. 8 men are employed. Production figures are not available. TPL WR 5-14-60

Visited the Silver Crown mine of Arizona Michigan Mining Co. The mill is being revamped and new larger crushers and rolls installed. Inspected several pieces of old equipment (somewhat "junky") which the company is advertising for sale in Pay Dirt. TPL WR 10-29-60

This property active Feb. 1961 - mine and mill operating normally. TPL WR 3-18-61

Visited the Silver Crown mine and inspected the workings with Langley Rayner who directs the operation. The workings consist of a 480' adit which intersects an old shaft at its end. Two levels have been opened below the adit - at 130' and at 190'. Shaft sinking is in progress at 70' below No. 3 level and it is planned to open a level (No. 4) at 300' below the adit level. Considerable stoping has been done between the No. 3 level and the adit in both directions from the shaft, and ore from this area (and occasionally some from the shaft) is currently supplying the mill with an average of about 15 tpd. The mill is operated one shift per day, and the mine operates 2 shifts per day (sinking on one of these shifts). 12 men are employed - 8 in the mine, 3 in the mill and 1 tramming and trucking ore. TPL WR 7-1-61

Visited the mine and mill and discussed the situation with Langley Rayner, Mgr. The mill was idle. The mine crew was cutting out a shaft station at the newly reached depth of 400'. 12 men are employed. Still and Still are making geologic study and economic evaluation for the company. TPL Memo 9-27-61

This Property active Oct. 1961

ARIZONA DEPARTMENT OF MINERAL RESOURCES
Mineral Building, Fairgrounds
Phoenix, Arizona

1. Information from: Langley W. Rayner
Address: Box 829 - Prescott, Arizona 86301
2. Mine: Crown Silver 3. No. of Claims - Patented _____
Unpatented 75
4. Location: _____
5. Sec 5,6,7,8,12 & 13 11N Range 3&4W 6. Mining District Kirkland
7. Owner: _____
8. Address: _____
9. Operating Co.: Arizona Michigan Mining Co.
10. Address: Box 829 - Prescott
11. President: A.V. Smith - Mason, Mich. 12. Gen. Mgr. & V.P. - L.W. Rayner
13. Principal Metals: Cu, Ag 14. No. Employed: 8
15. Mill, Type & Capacity: _____
16. Present Operations: (a) Down ☐ (b) Assessment work ☐ (c) Exploration ☒
(d) Production ☐ (e) Rate _____ tpd.
17. New Work Planned: Continue exploratory work - drilling and dozer work.

18. Misl. Notes: _____

Date: July 18, 1969

F. T. Johnson
(Signature)

F. T. Johnson
(Field Engineer)

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Silver Crown

Date April 1, 1959

District Walnut Grove, Yavapai

Engineer Travis P. Lane

Subject: Visit of Jan. 30 & information Mar. 27

The mine and mill are operating normally, i. e. 1 shift/day in the mill and 2 shifts/day in the mine. The shaft has been sunk an additional 60' since the last visit and a new level opened at that depth -- which is 263' below the surface or 190' below the operating adit level. A drift has been driven 115' southwest on the vein from the bottom of the shaft and stoping is in progress there and also on the 203' level above.

The company has built a loading ramp at Kirkland and several carloads of concentrates have been shipped recently.

8 men employed.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine ✓ Silver Crown

Date Dec. 17, 1958

District Walnut Grove, Yavapai

Engineer Travis P. Lane

Subject: Visit - Nov. 13, 1958

The property comprises 11 unpatented mining claims and one mill site. It is located near Walnut Grove about 8 miles SE of Kirkland Junction.

Owner and Operator: ✓ Oro Fino, Inc., P.O. Box 701, Prescott, Arizona.

Manager and Exec. V. P. ✓ L.W. Rayner

The property is an old one and is reported to have shipped a significant amount of high grade silver ore from shallow workings during its early day operation (in the 80s). No record is available however regarding the production or development. After lying idle for a long period John Sullivan located the claims and recently sold them to the present operating company whose shareholders are Michigan people.

The main old workings consisted of two shafts and several adits on the vein. The deeper shaft (260'?) connected with a short adit in its upper part. The second shaft, several hundred feet southwest of this shaft was 86' deep. The present operators continued the adit to intersect the second shaft near its bottom, and deepened the shaft to 190' with a level at the bottom and another at 130'. Short drifts (about 75') have been run in each direction from the shaft on each level.

The vein strikes northeast and stands about vertical. It varies from several feet to 15' in width and the ore occurs in lenses or pods in the vein. The principal value is silver with some lead and a little gold. Most of the mineralization is oxidized. Some ore has been mined on the two levels and at the time of this visit stoping was in progress on the 130' level. One carload containing concentrates in one end and sorted ore in the other was shipped early this year (1958), and last year a truckload of sorted ore was shipped.

✓ A mill which was built several years ago proved unsatisfactory and was replaced by another in the spring of this year. This consists of a 10" x 12" jaw crusher, 2 sets of rolls operating in series and 2 Deister 14' Tables. Power for the mill is supplied by a Wisconsin engine and a Chevrolet auto engine, also Kohler and Onan generator plants (5 KW each). The mill was idle at the time of visit. Apparently it is operated only intermittently when justified by the ore supply situation. The capacity is 3 to 5 TPH. Tailings are held in a bin and trucked out for disposal.

Equipment at the mine consists of 2 compressors (105 and 210 c.f.m.) and a 12½ KVA generator plant with Continental gas engine drive. This furnishes power for a hoist in the adit at the inner shaft also for lights and a blower.

The crew consists of 7 men. There is no camp housing other than an office at the mine and a laboratory at the mill (on the bank of a wash about 1½ miles northeast of the mine).

Pasco to Ariz Oct 7d 1932

Proposition on the Silver Crown or 4 metals
group in the French Gulch District-

Property consists of 3 Claims as shown in
the report attached hereto, they are full claims
each 600x1500 feet-

The price is \$10,000, on some sort of payment
plan, or \$1,000, for spot Cash;

The Commission in either Case will be
the usual 10.0%

In offering this property for \$1,000, it will
be for a quick turn as I can use the
Cash right now.

G.W. Bartholomew

Agent for

E.S. Bartholomew Lector

You will notice the report was made
in 1925, and if made now would be
changed in some respects-

G.W. Bartholomew

Report made in 1925

THE CROWN MINING PROPERTY.

Kirkland, Ariz.

This report will serve as a brief description of the above named property.

This group consists of three lode mining claims, namely the SURPRISE, the MONEY MAKER and the SILVER CROWN. The property is located about 14 miles nearly south from Kirkland, (a small station on the Santa Fe Railroad). The road is comparatively level with very little hills. The several car loads of ore hauled from the Silver Crown cost \$4.00 per ton trucking to the Railroad; from there to El Paso it cost \$6.00 per ton with \$3.00 treatment charge, or a total of \$13.00 per ton, with about \$2.00 per ton for mining would make \$15.00 per ton of cost. This would indicate that the ore should net in car lots about \$30.00 ~~and~~ \$60.00 per ton for the Silver and Lead content; later this ore will have a good value in Copper also, which will be referred to later. There is water of good quality not over a mile away at Oak Creek. I think enough water can be empounded for all purposes save domestic or camp use. A small cement bed rock dam will do the trick, since there are some gulches that run quite a lot of water when it rains.

I think best to use a distillate hoisting engine since there is little wood for fuel near the property, but plenty for domestic use.

GEOLOGY

The property is located on what is called a Yavapai Schist belt, which is generally greatly altered by hot thermal solutions, gases, etc. The schist stands on edge with a pitch of about 70 degrees, and the vein on the Silver Crown follows the cleavage of the schist. I would say the schist must be over 2000 feet wide where these lode claims are located, and this property is about in the centre of the schist belt. The veins on the Silver Crown follow the cleavage planes of the schist and are more or less lensey, but the ore does not confine itself to the vein proper, as it makes out in the schist also.

THE ORES, VALUES, ETC.

The ore on the Silver Crown is mostly lead and silver but a good copper showing is found with the other ores and it is the opinion of the writer that the values will run more to copper when the sulphides are reached. The ores shipped so far are largely carbonate and sulphate lead ores. Of course a small amount of galena is found. I think that when the shaft reaches a depth of 400 feet it is quite likely the sulphides will be found and possibly water.

The ore from the Surprise and Money Maker will be a copper ore with both silver and gold as a by-product. I have no doubt but a good grade of shipping ore will be found on both

of these claims above the sulphide zone, but the real ore will be found after water is reached, and it would not surprise me to see ore bodies from 20 to 100 feet wide in this schist, since this is looked for and generally found at that depth.

The first ore will be largely "Cuprite", "Malachite" and possibly some "Crysicollia", but as depth is gained it will gradually blend into "Chalcocite", "Chalcopyrite" and possibly some "Bornite". These ores are mostly high grade when found in this character of schist. Bornite and Chalcocite have been found at great depth in a lot of Arizona mines as well as at Butte, Montana. These last named ores generally run from 20 to 70% copper and I feel safe in saying enough silver and gold will be associated with them to about care for all expenses.

DEVELOPMENT

On the Silver Crown mine there is one shaft over 200 feet deep; part of the timbers from this shaft were removed and put in the 100 foot shaft, but otherwise the shaft is in good condition. I am told the lower 150 feet is all in good shape and the timbering good. There was a tunnel driven to the shaft and beyond on the vein that cut the shaft at about 30 feet deep, and a lot of ore was removed from the shaft and tunnel. All of the drifts stand well without timbering. At the 100 foot shaft the timbers are good, also at the 70 foot shaft. There is a tripod over this shaft and I judge a horse ~~winch~~ was used to hoist the ore. There ~~was quite a shaft still further west, possibly 30 feet deep,~~ but no timbers were used and it is caved badly. At a rough estimate I would say there is not less than 100 tons on the dumps at these shafts that will make good mill ore and hundreds of tons of this character still in the mine. This ore will mill about 3 tons to one and should make a product worth about \$100.00 per ton. A lot of underhand stoping has been done near the west shaft which is pretty badly caved from the surface. I could not get into the main shaft owing to the ladders having been removed. There is another parallel vein about 50 feet north of the main vein where some ore running several hundred Dollars per ton was taken out. A drift about 50 feet or less would tap this vein from the bottom of the deep shaft, at over 200 feet deep, in depth.

It would therefore, seem that much good ore should be in evidence from that level to the surface. Most of this work was done when lead was worth only about \$4.00 per hundred pounds, and silver about 55 cents per ounce.

~~It would seem that under good management this property~~ should pay well even under its development stage, and when the big bodies of sulphide ores are entered below water level, it is sure to make a big dividend payer, possibly for the next 50 years to come.

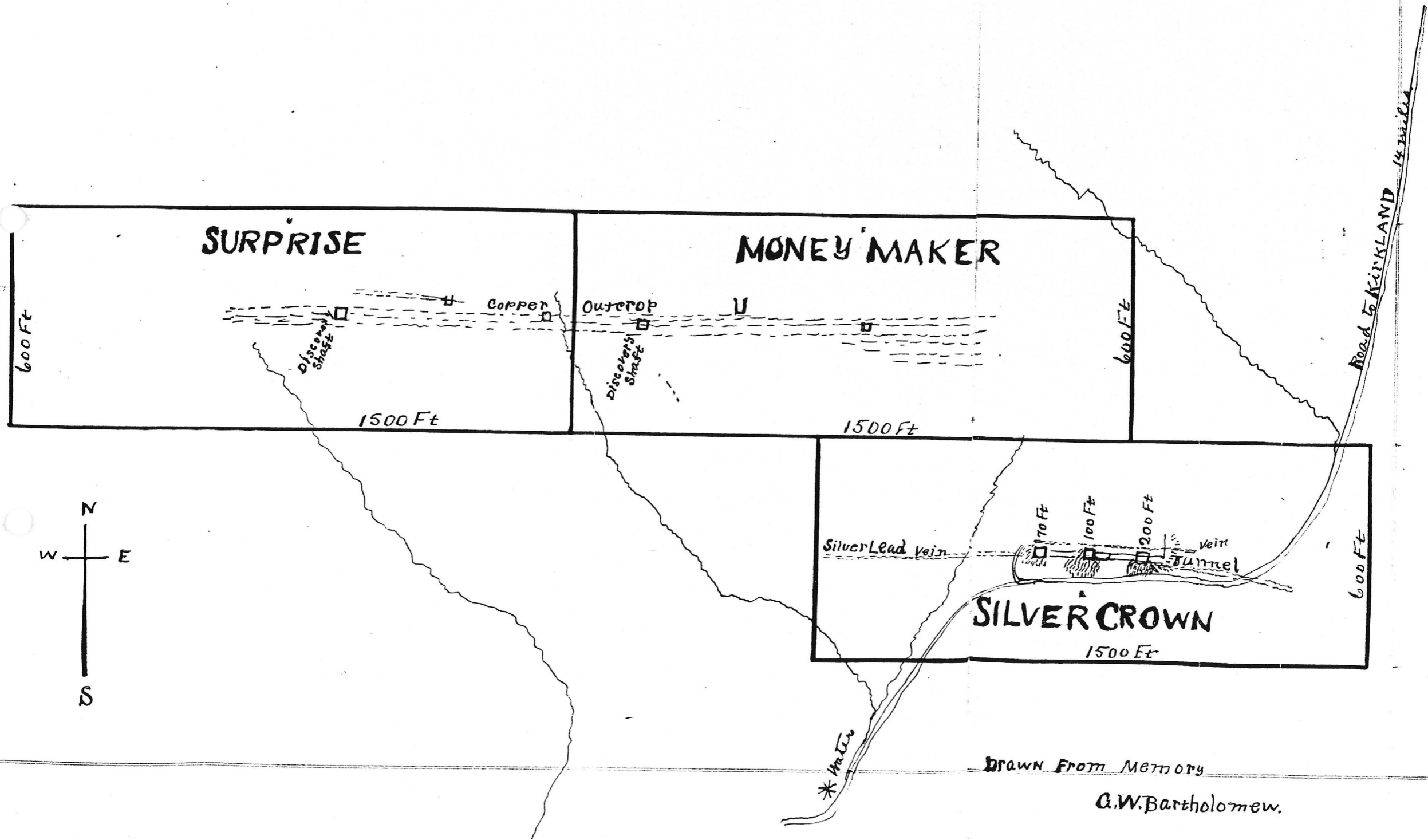
The Verde Extension and the Verde Central never had as good surface showing as this property, and had no values until after they went below 700 feet. They are now both big mines worth about \$50,000,000 each. The Kay Copper had no ore till they went below 400 feet; they are down now 1200 feet and are said to have \$14,000,000 worth of ore blocked out. These properties are all in the Yavapai Schist the same as the Silver Crown. I feel confident that the Surprise and Money Maker will furnish good ore enough to pay their way to a shaft down to the sulphide, where the big ore bodies will be reached.

In conclusion will say it should not be very expensive to continue the deepest shaft down to 500 feet, where it should be well within the sulphide zone. In the event the lead in this ore does not hold out with depth, the ore can be shipped to the Humboldt Smelter, only 100 miles away and the freight charges will only be \$2.00 per ton in place of \$6.00. I would suggest that the Company should locate more ground for protection around these valuable claims. There may be value to the surrounding ground now that the writer does not know about. I may state that the Verde Central and the Verde Extension were both considered valueless ground joining the Great United Verde Mine. That is the reason I suggest the feature of protection.

As a prospect I regard the Silver Crown as a sure winner, under careful management.

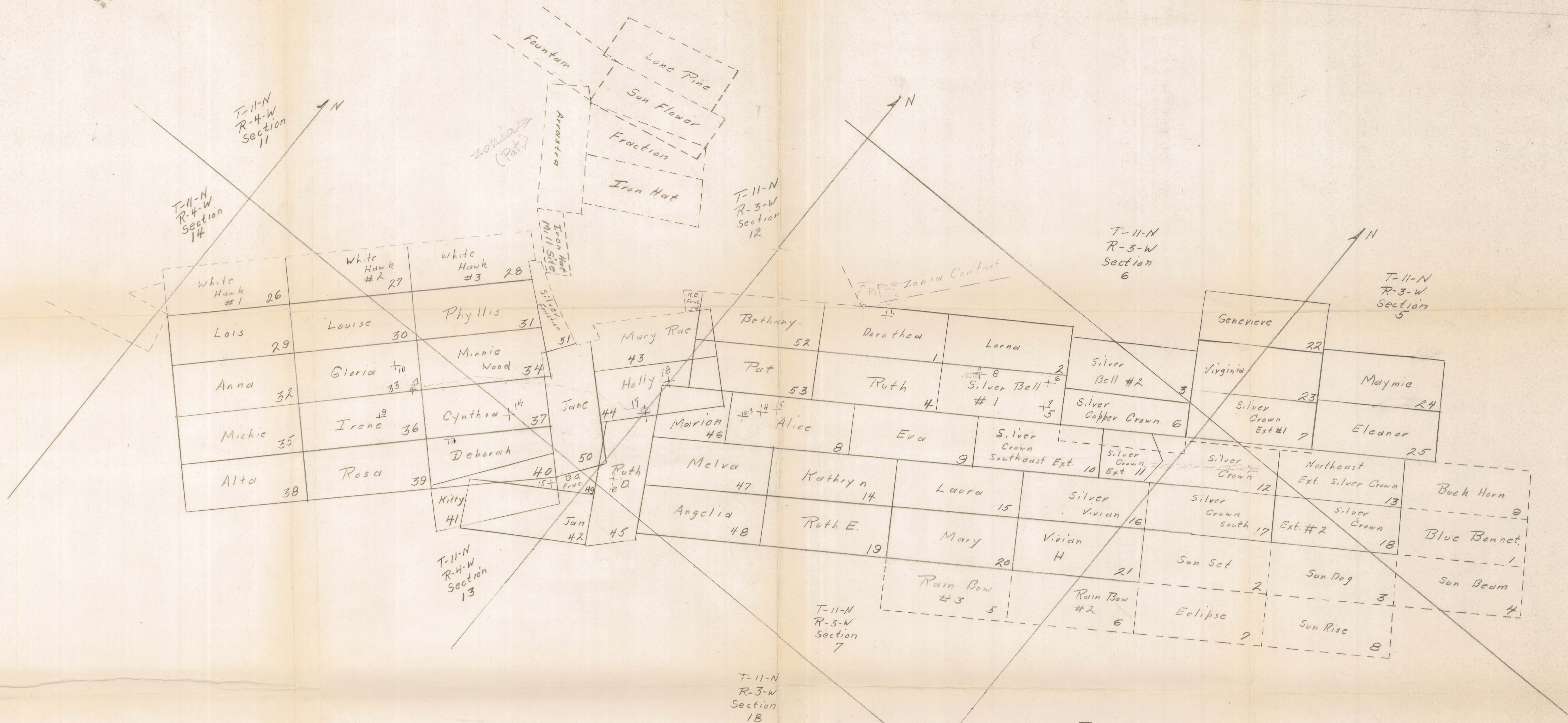
Very respectfully submitted,

G. W. Bartholomew
Mining Engineer.



DRAWN FROM MEMORY

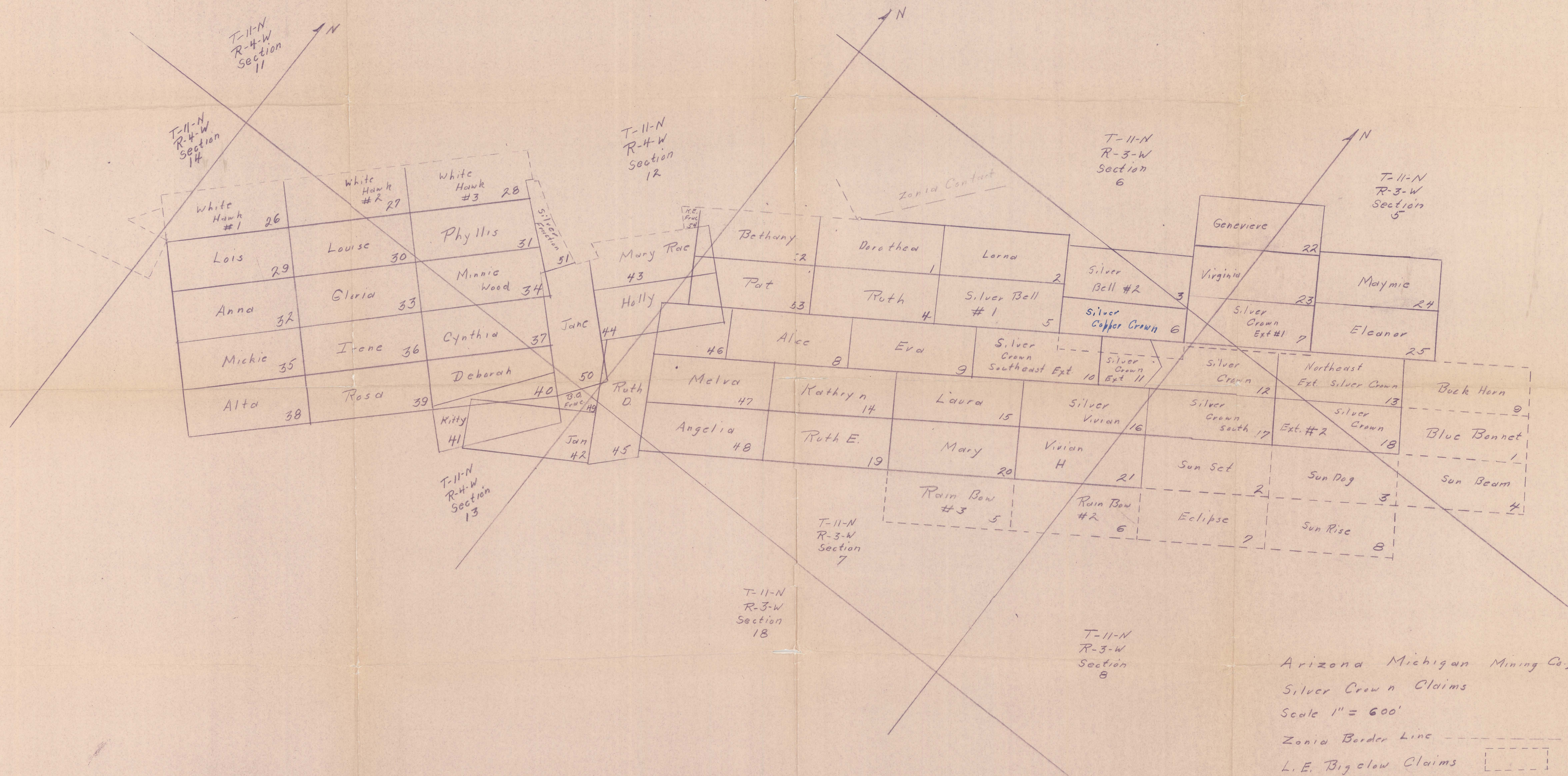
G.W. Bartholomew.



Arizona Michigan Mining Co., Inc.
 Silver Crown Claims
 Scale 1" = 600'
 Zonia Border Line
 L.E. Bigelow Claims
 Sept. 9, 1968 - Corrected Nov. 1, 1968

Claims - Lone Pine
 Property - Sun Flower
 of McAlester - Fraction
 Fuel Co. Zonia - Iron Hat
 Mine - Fountain
 Arrastra
 Iron Hat Mill Site

Drill Holes +
 Corrected Feb. 13, 1969
 Langley, Rayner
 J.W.R.



Arizona Michigan Mining Co., Inc.
 Silver Crown Claims
 Scale 1" = 600'
 Zonia Border Line
 L.E. Bigelow Claims
 Sept. 9, 1968 - Corrected Nov. 1, 1968
 Langley, W. Rayner