



## CONTACT INFORMATION

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08/01/88

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: KEMPLE CAMP

ALTERNATE NAMES:

FAYRO NO. 1  
GOLD CROWN

MOHAVE COUNTY MILS NUMBER: 656A

LOCATION: TOWNSHIP 26 N RANGE 20 W SECTION 31 QUARTER W2  
LATITUDE: N 35DEG 36MIN 05SEC LONGITUDE: W 114DEG 27MIN 54SEC  
TOPO MAP NAME: WHITE HILLS - 15 MIN

CURRENT STATUS: DEVEL DEPSOIT

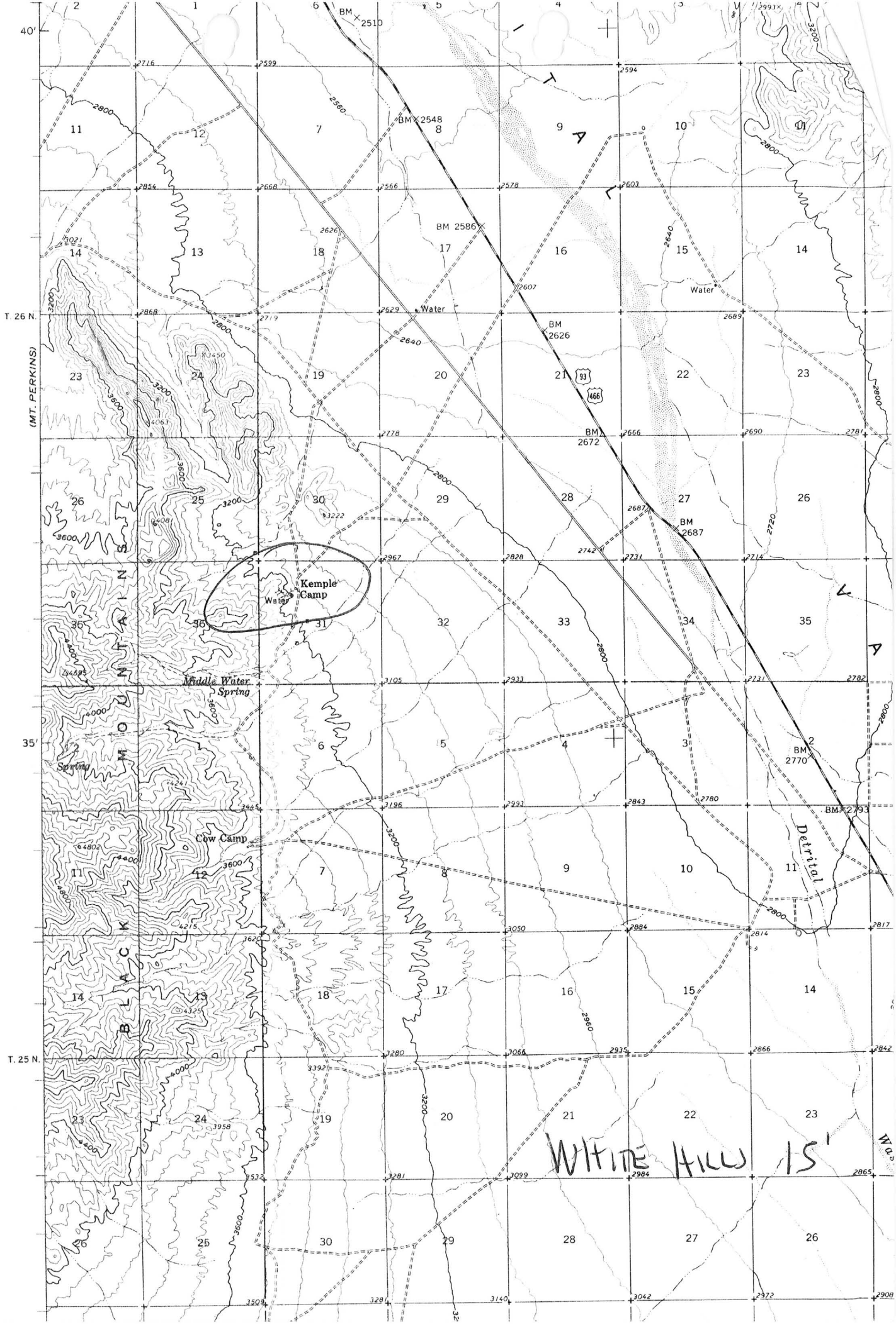
COMMODITY:

GOLD LODE  
COPPER  
SILVER  
SAND & GRAVEL

BIBLIOGRAPHY:

ADMMR KEMPLE CAMP FILE  
ADMMR MOHAVE CUSTOM MILL PROJECT  
ADMMR MOHAVE CARD FILE  
USBM INFO OP: FAYRO MINING CO. 1976  
MSHA YELLOW FORM 4000-6.5

T26N  
R20W  
Sec 31



WHITE HILLS 15'

GOLD CROWN MINE

12/17/76

MOHAVE COUNTY  
T26N R20W Sec. 31 NW 1/4

Kingman Mining Project, Claim map 4

See: "Cerberat Mtn. Country", Roman Malach, Mohave Cty. Historian, Pg. 41,  
1982.

M 5 - 34

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
OWNERS MINE REPORT

Date September 3, 1940

1. Mine Gold Crown Mine
2. Mining District & County Weaver Mining Dist.  
Mohave County
3. Former name Utah Arizona Gold and Copper Mining Company.
4. Location 39 miles northwest of Kingman, highway U. S. 93, then west 3 miles.
5. Owner Gold Crown Mining Company ✓
6. Address (Owner) Office at property  
P. O. address, Box 622, Kingman, Arizona
7. Operator Gold Crown Mining Company
8. Address (Operator) Box 622, Kingman, Ariz.
9. President J. F. Shelley
10. Gen. Mgr. J. F. Shelley
11. Mine Supt.
12. Mill Supt.
13. Principal Metals Gold, Silver, Copper ✓
14. Men Employed 1 to 4 men during past year.
15. Production Rate
16. Mill: Type & Cap. See paper attached
17. Power: Amt. & Type See paper attached
18. Operations: Present 1 to 4 men developing ore bodies, doing our assessment work, etc.
19. Operations Planned To get financed to get the necessary machinery to complete our mill and run it ourselves, or to lease under a royalty basis, or to lease under lease and bond on some fair and equitable basis.
20. Number Claims, Title, etc. 62 claims, as per map attached. No patented claims.
21. Description: Topography & Geography The property is typical of the River Range, Mohave County. Somewhat abrupt and high mountain ranges on the west, shading down into rolling hills through the center of the property.
22. Mine Workings: Amt. & Condition We have approximately 4000 feet of development work done on our different claims, in drifts, tunnels, shafts, surface cuts, and up raises. This is all in good condition.

23. Geology & Mineralization values in our ores comes in quartz, granite, calcite, schists, porphyry, diorite, hematite and quartzite.

24. Ore: Positive & Probable, Ore Dumps, Tailings We have around 1500 tons of tailings from which a general assay taken averaged \$5.00 per ton. We figure we have around 400 tons of ore close to the mill, on mill level in dumps, that will run from \$5.00 to \$10.00 per ton. We have practically developed in our Pride of the West claim, around 2000 tons of ore ready to take out on mill level and above; 130 feet stoping from tunnel level to the top of the hill where we have an open cut on vein of 120 feet. (continued on attached pages)  
24-A Vein Width, Length, Value, etc.

See paper attached

25. Mine, Mill Equipment & Flow Sheet

See paper attached

26. Road Conditions, Route Property is located 39 miles northwest of Kingman, highway U. S. 93 then west 3 miles to property over a good dirt road, and numerous roads from camp to the various claims. Or about 33 miles southeast on highway U. S. 93 from Boulder Dam then west to property.

27. Water Supply Our water supply consists of two springs in Cottonwood Canyon from where we have a pipe line which delivers the water by gravity to our reservoir on the hill above the mill. We have driven a tunnel in the mountain about 75 feet where we have another small stream of water running by gravity through a pipe line to our reservoir above the mill. We also have two shafts now full of water which we can connect up with our pipe line by putting in another pipe line for about half a mile. These two shafts of water are on our Golden Gate property.

~~28. Brief History~~ We can also develop water on our Daisy Claim. We believe we have sufficient water now developed to run a 50 ton mill and by further development and putting all our sources of water together we will have sufficient water to run a 100 ton mill.

29. Special Problems, Reports Filed

30. Remarks

31. If property for sale: Price, terms and address to negotiate. See No. 19 Operations planned.  
Address, Gold Crown Mining Company  
P. O. Box 622, Kingman, Arizona

32. Signed..... Gold Crown Mining Company  
J. F. Shelley, President.

33. Use additional sheets if necessary.

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

Date September 3, 1940.

1. Mine Gold Crown Mine
2. Location, 39 miles northwest of Kingman, Highway U.S. 95, then west 3 miles
3. Mining District & County, Weaver Mining District, Mohave County
4. Former name Utah Arizona Gold & Copper Mining Company
5. Owner Gold Crown Mining Company
6. Address (Owner) office at property  
Post office address, Box 622, Kingman, Ariz.
7. Operator Gold Crown Mining Co.
8. Address (Operator) Box 622, Kingman, Ariz.
9. President, Owning Co. J. F. Shelley
- 9A. President, Operating Co. J. F. Shelley
10. Gen. Mgr. J. F. Shelley
14. Principal Minerals gold, silver, copper
11. Mine Supt.
15. Production Rate
12. Mill Supt.
16. Mill: Type & Cap. See paper attached
13. Men Employed 1 to 4 men during past year
17. Power: Amt. & Type See paper attached
18. Operations: Present 1 to 4 men developing ore bodies, doing our assessment work, etc.
19. Operations: Planned To get financed to get the necessary machinery to complete our mill and run it ourselves, or, to lease under a royalty basis, or, to lease under lease and bond on some fair and equitable basis.
20. Number Claims, Title, etc. 62 claims, as per map attached. No patented claims.
21. Description: Topography & Geography The property is typical of the River Range, Mohave Co. Some what abrupt and high mountains ranges on the west, shading down into rolling hills through the center of the property.
22. Mine Workings: Amt. & Condition We have approximately 4000 feet of development work done on our different claims, in drifts, tunnels, shafts, surface cuts, and up raises. This is all in good condition.

23. Geology & Mineralization The values in our ores comes in quartz, granite, calcite, shists, prophry, diorite, hematite and quartzite.

24. Ore: Positive & Probable, Ore Dumps, Tailings See paper attached

24A. Dimensions and Value of Ore body See paper attached

25. Mine, Mill Equipment & Flow-Sheet See paper attached

26. Road Conditions, Route Property is located 39 miles northwest of Kingman, Highway U.S. 93 then west 3 miles to property over a good dirt road, and numerous roads from camp to the various claims.  
Or, about 33 miles southeast on Highway U.S. 93 from Boulder Dam, then west to property.

27. Water Supply See paper attached

28. Brief History

29. Special Problems, Reports Filed

30. Remarks

31. If property for sale: Price, terms and address to negotiate. See No. 19 Operations planned.  
Address, Gold Crown Mining Company,  
P.O. Box 622, Kingman, Arizona.

32. Signature *Gold Crown Mining Co*  
*J. F. Shelley, Pres*

33. Use additional sheets if necessary.



# GOLD CROWN MINING COMPANY

INCORPORATED UNDER THE LAWS OF ARIZONA

OFFICE AT MINE

P. O. BOX 622

KINGMAN, ARIZONA

Sept. 3, 1940.

J. F. SHELLEY  
PRESIDENT

LINDA SHELLEY  
SECRETARY

Mr. J.S.Coupal,  
Director, Arizona Dept.of Mineral Resources  
Phoenix, Arizona.

Dear Mr.Coupal,

We are enclosing you our Mine Owner's Report filled out as  
near complete as we understand it. We hope some good will come from it.

Thanking you for the interest you have taken in our property,  
we beg to remain,

Yours truly,

Gold Crown Mining Co.

*J. F. Shelley* Pres.

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

SPECIAL

Mine GOLD CROWN

Date January 30, 1940.

District Weaver, Mohave Co.

Engineer Elgin B. Holt,  
P. O. Box 288,  
Kingman, Ariz.

Subject:

SYNOPSIS REPORT

OWNER: Gold Crown Mining Company, J. F. Shelley, President,  
P. O. Box 622, Kingman, Arizona.

METALS: Gold and copper; gold predominating.

LOCATION: Property reached from Kingman by following Highway 93  
39 miles northwest toward Boulder Dam; thence 3 miles  
westerly by level dirt road to mine.

HISTORY: The various veins of property have been worked superficially from time to time for the last 30 or 40 years by various owners and some ore has been shipped in small quantities. A 60-ton mill was erected at property several years ago; but failed to recover gold values economically due to copper content in the ores. This mill is still intact. It will be discussed more fully further along in this report.

GEOLOGY: The country rock for several miles surrounding the property consists mainly of schist, with local areas of granite, grano-diorite and gneiss. Huge porphyry dikes and smaller veins traverse property; both carrying gold and copper.

VEINS: The largest vein, or vein-dike, on property is located on the Monster claim, situated 1.75 miles south of mill on level to rolling mesa ground. Here is found a huge ore shoot about 50 feet in width and traceable for two or three hundred feet on the surface. It is developed by several shallow open cuts to a depth of 10 to 20 feet only. Gangue consists of decomposed iron-stained quartz and "porphyry", with bunches of copper silicate and carbonate here and there in the mass. Mr. Shelley informed me that a 25-foot section of this vein, next to the hanging wall thereof, averages from \$6.00 to \$7.00 gold per ton, plus 0.6% copper. Values, or more exactly gold values cannot be recovered by cyanidation and only partly by amalgamation, due to the copper content in the ore; but Mr. Shelley further stated he had tests run some time ago by the Denver Equipment Company, indicating that gold values can be recovered by a combination of flotation, tabling and amalgamation.

Another important vein is the "Big Vein", on the Pride of the West claim; the same being 40 feet in width, and dips into the mountain at an angle of 20 degrees. This vein has been stripped along the surface for sampling at intervals and averages from \$4.47 to \$9.45 gold, per Mr. Shelley.

VEINS (Continued): The Pride of the West Vein, from 1 to 3 feet wide, is developed by an open cut on vein for 120 feet and by a cross-cut tunnel 650 feet in length which intersects vein at a depth of 130 feet with 60 feet of drifting on vein at tunnel and mill ore bin level. In the said 60 feet of drifting, 18 tons of ore were removed and milled, giving an average of \$17.00 gold per ton and 1.5% copper. Character of ore is oxidized material, as is the case with all ores so far developed in mine, the copper, as stated occurring in the form of silicate and carbonate.

Two other veins further up the hill from the Pride of the West Vein could also be opened up for stoping by the cross-cut tunnel mentioned, as follows:

The first one of these veins could be cut by extending said tunnel 50 feet further. This vein is also from 1 to 3 ft. wide. The next one of these veins, which is five feet wide can be intersected by extending the cross-cut tunnel 150 feet beyond the first vein. This data was also furnished me by Mr. Shelley, at the time I looked the property over.

WATER SUPPLY:

A 3.5 mile 2-inch gravity pipe line leads from spring and reservoir in Cottonwood Canyon to a 16,000 gallon cement reservoir just above mill, supplying 10,000 gallons of water in 24 hours during dry season up to 20,000 gallons during wet periods.

Also a 1.5 mile 1-inch gravity pipe line ~~also~~ brings water to the mill reservoir mentioned from the Omega claim, supplying about one gallon per minute.

One other spring located one mile above mill, if developed should also provide an equal amount of water now obtained from the Cottonwood Canyon spring, above described.

Again, an addition supply of water, estimated at 8,000 gallons in 24 hours, could be obtained from 2 shafts on the Golden Gate claim, 1.5 miles above mill.

In short, all in all, sufficient water could be developed to supply a 100-ton mill ~~with continuous water~~ for 24 hours during the year round, per Mr. Shelley.

MILL:

Mill equipment and machinery on hand:

2 8,000 gallon tanks,  
1 3,000 " tank,  
1 5,000 " "  
2 500 " tanks,  
1 Screen,  
1 7" by 10" jaw crusher,  
1 Ore feeder,  
5 No. 15 Denver Equipment Company flotation cells,  
1 17-H. P. generating plant with engine,  
2 Motors, 1 and 2 H. P. each,  
1 Pierce amalgamator,  
1 25- H. P. Fairbanks Morse gas engine,  
1 10 by 10 " " compressor,

MILL (Continued):

- 1 Centrifugal pump,
- 5 Settling tanks,
- 1 90-H. P. Mitchell gas engine,
- 1 6-H. P. Fairbanks Morse gas engine,  
hoist with above,
- 1 Hoist cable, 250-ft.,
- 1 3-H. P. Sears engine,
- 2 1,200 lbs. ore cars,
- 1 Ingersoll Rand jack hammer,
- 1 Jack hammer stand,
- 1 Tank water pressure for above,
- 1 Sullivan stoper,
- 1 Lot Jack Hammer steel,
- 1 Lot stoper steel,
- 1 Large air receiver,
- 1 Small air receiver,

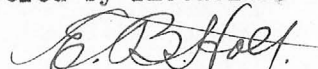
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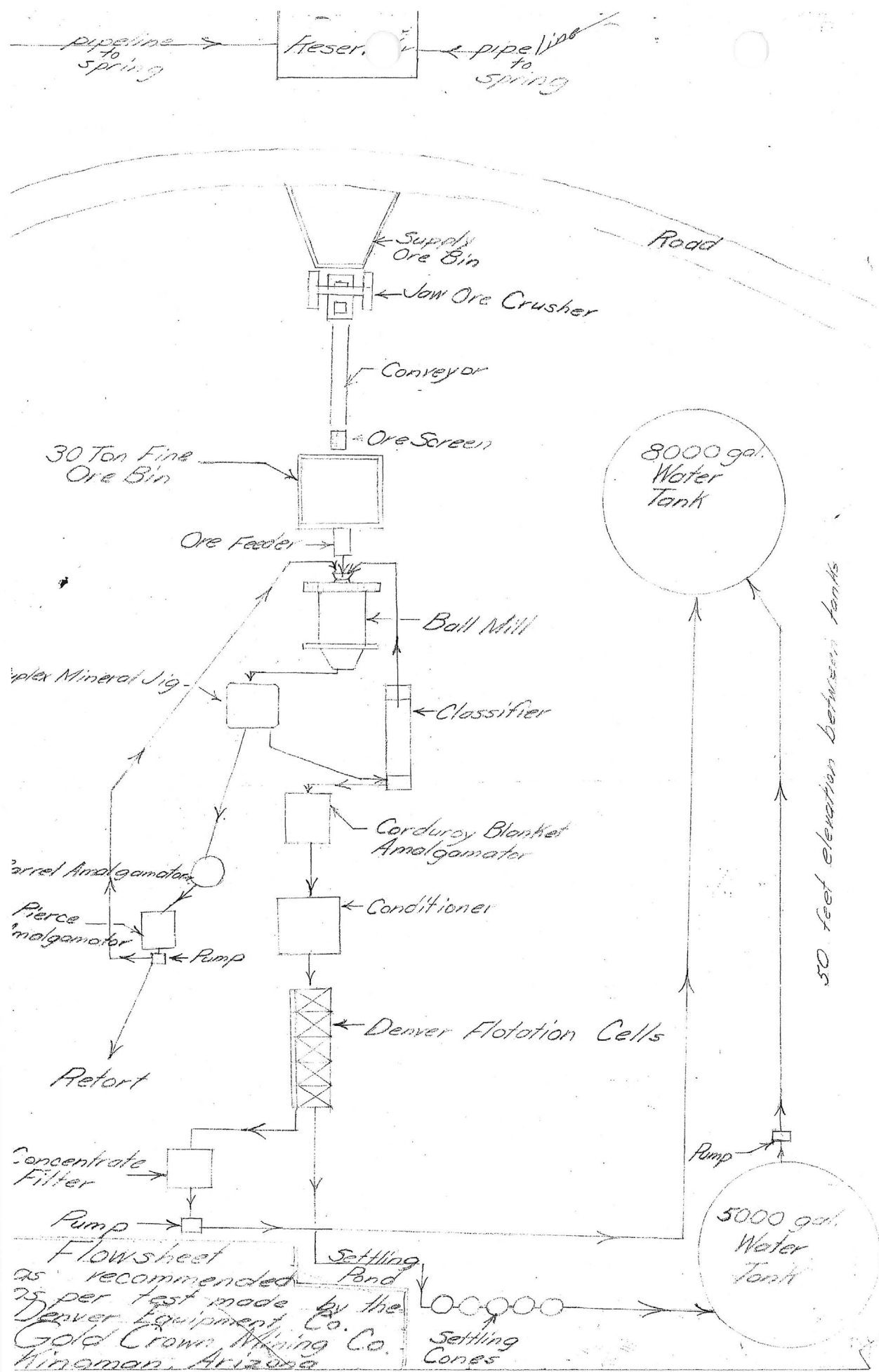
Equipment & Machinery wanted to modernize  
mill, per Mr. Shelley:

- 1 5' by 4' ball mill,
- 1 Dorr classifier,
- 1 12 by 18 mineral jig, Denver Equipment Co.,
- 1 Amalgamation unit, consisting of barrel am-  
algamator, with amalgam separator combination,  
Denver Equipment Co. make; also 1 corduroy amalgamator,
- 1 Conditioner,
- 1 Filter for concentrates,
- 2 small motors,
- 1 Small centrifugal pump, belting and sundry items,  
freight, installation costs, etc.

OPINION:

This property has all the ear-marks that it should develop into a large tonnage proposition, one that should supply a mill with a capacity of from 300 to 500 tons of ore per day. An economic method to treat the ore is now the problem, as the gold values in the ore cannot be recovered either by cyanidation or by amalgamation due to copper content in the ore. Any company taking over the mine should first spend a considerable sum in its development, following which thorough metallurgical tests should be made in order to determine correct milling methods to employ in order to recover, first, gold values, and, secondly, copper values in the ores. By sinking on the various veins, it is quite probable sulphide ores will be encountered, which would simplify milling operations, as values could then be recovered by flotation.

  
Elgin B. Holt,  
Field Engineer.



Flowsheet  
 as recommended  
 as per test made by the  
 Denver Equipment Co.  
 Gold Crown Mining Co.  
 Kinaman, Arizona

26 February 1940

Mr. J. F. Shelley,  
Gold Crown Mining Company,  
P. O. Box 622,  
Kingman, Arizona.

Dear Mr. Shelley:

With further reference to your letter of January 9, and to my reply of January 23, I am enclosing herewith copy of Mine Owners Report submitted by you, and which has been filed for reference.

I am also enclosing a copy of Synopsis Report by Mr. Elgin B. Holt, field engineer for the Department of Mineral Resources.

Should we have a call for a property such as yours, I shall be glad to put them in direct contact with you.

With best wishes, I am

Yours very truly,

J. S. Coupal  
Director

JSC-jrf

encls.

Boyd  
1

23 January 1940

Mr. J. F. Shelley,  
Gold Crown Mining Company,  
P. O. Box 622,  
Kingman, Arizona.

Dear Mr. Shelley:

I am enclosing herewith a blank Mine Owners Report, which I should suggest that you fill out in detail and return for filing so that we may have information available on your property.

I have asked Mr. Holt to arrange to look over your property as soon as time permits his doing so.

Yours very truly,

J. S. Coupal  
Director

JSC-jr

HOLD:

I am enclosing herewith letter from Mr. Shelley, which please return after it has served your purpose.

JSC

# GOLD CROWN MINING COMPANY

INCORPORATED UNDER THE LAWS OF ARIZONA

OFFICE AT MINE

P. O. BOX 622

KINGMAN, ARIZONA January 9, 1940.

J. F. SHELLEY  
PRESIDENT

LINDA SHELLEY  
SECRETARY

Mr. J.S. Coupal,  
Director, Arizona Department of Mineral Resources,  
Phoenix, Arizona.

*Holt examined  
this mine on  
1/30/40*

Dear Mr. Coupal,

We desire to call to your attention the problems we are up against in our mining efforts.

We have a fairly good water supply and we believe that by combining our water sources we have water for a 100 ton mill.

We have two very large bodies of low grade ore and a number of higher grade smaller veins, sufficient ore to run a 100 ton mill for a long time.

Our largest ore vein is 40 feet wide and assay values across the whole vein will run about \$5.00 to \$6.00 per ton, but about 20 feet of this 40 foot vein on the foot wall side will run about \$8.00 per ton. This ore is close to our mill and can be mined and ~~mined~~ delivered to the mill with truck and loader for fifty cents per ton.

Our other big vein of ore is about 25 feet wide and values will run about \$6.00 in gold and silver and about 3/4 of one percent copper. This body of ore can be mined and delivered to the mill at \$1.00 per ton by truck and loader.

Our main watersupply comes from Cottonwood canyon where we have a reservoir and 3 1/2 miles of pipe line to the mill, by gravity. Water runs from our Daisy, also our Omega claims to the mill, by gravity, through pipe lines. . We have two shafts on our Golden Gate claim which develops considerable water which we have not yet connected up to our pipe line but we will have to install pump when and if we should need this water.

We have a mill and other buildings, also water tanks and reservoir at the mill for 40000 gallons of water.

We have an Allis Chambers crusher now installed in the mill, Also, ore bins, 5 number 15 Denver Equipment flotation cells, one 17 H P generator and engine and 2 motors, one 90 H P Gas engine and we are told this can be converted into an oil engine, one 25 H P Fairbanks Morse oil engine and one 10 by 10 Fairbanks Morse compressor.

We are in need of the following machinery to make our mill up to date, One ball mill and classifier for 50 or larger ton mill, one Denver Equipment Co 12 by 18 mineral jig, one Denver Equipment Co amalgamation unit, consisting of one barrel amalgamator and amalgam separator combined. One filter for concentrates.

Could you in some way help us in getting financed to purchase and install this machinery and get started. We believe a loan of \$5000.00 will be sufficient as we have outlined above. We can lease truck and loader.

We have a 50 ton Lane mill which we will have to take out of the mill as it is not adapted to conditions here.

Our property is about two miles from the Boulder Dam power line running to Kingman. Should we be able to get financed later so as to get electric power equipment and have that installed in our mill it would be far better but the cost would be much greater.

If Mr. Holt, the district engineer could call here and look over our property we would appreciate it very much.

Yours truly, Gold Crown Mining Co.  
G. J. Shelley, Pres.



VERBAL INFORMATION SUMMARY

Mine: Kemble Camp, Mohave Co., (file)

From: Diane Bain

June 8 ~1998

Mary Lewis, 520-767-3288, called to inquire about a property called Kemple Camp in Mohave County operated by Kent Dobbins dba K D & O. She has been solicited to invest in the operation and wanted more information. We have a file on Kemple Camp and have chronicled Dobbins activities there for 15 years. We advised her to call the Securities Division of the Corporation Commission to see if they are registered. The Securities Division had called us for information on DK&O in 1986, to aid in their investigation. Mary Lewis is going to send us the material she has been sent by the company.

RH

Date Printed: 08/04/98

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

INFORMATION SUMMARY

Information from: **Kent Dobbins**

Company: KD & O Mining, Inc.

Address:

City, State ZIP:

Phone:

**MINE:** Gold Crown

ADMMR Mine File: Kemple Camp

County: Mohave

AzMILS Number: 656A

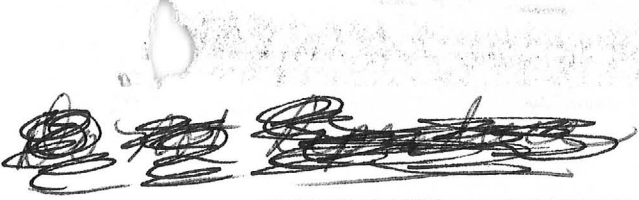
SUMMARY

Kent Dobbins, (card), KD & O Mining Inc. called and reported that he is still trying to get his Gold Crown Mine, Kemple Camp (file) [Mohave AZMILS 656A] going.

He complained that an "engineer", F. Litchfield, that he retained dismantled part of his mill, built other parts, and then made a deal with a Las Vegas outfit to promote the property over the Inter Net. The Las Vegas group was Canadian Connections, James C. Danielson, 3986 Topaz, Las Vegas, Nevada 89121. Dobbins went on to explain that Mr. Litchfield has purportedly claims he owns the property. Dobbins asked for suggestions as to how he could get a threatened cloud over his mine removed or prevented.

Mr. Dobbins also reported that he started trying to operate the property in 1979 and last attempted to mill ore in 1986. He said the mill consists of a jaw crusher, 24" rolls, surge bin, dry pulverizer with air classifier, Pachuca tank, and tables. He reported having an air quality permit covering any dust emitted by his mill and a plan of operations with the Bureau of Land Management.

Ken A. Phillips, Chief Engineer      Date: August 4, 1998

  
CJH WR 7/18/80: George McDivitt, 712 E. Beale Street, Kingman, Arizona 86401, reports a group moving into Kemple Camp to do some drilling. Our files indicate Kemple Camp is the location of the Gold Crown Mine, NW $\frac{1}{4}$ , Sec. 31, T~~24~~<sup>26</sup>N, R20W.

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NJN WR 6/6/86: Bill Vanderwall (c) reported that someone is starting to construct a mill at Kemple Camp (Gold Crown Mine - file) Mohave County, but doubts that they have enough ore to supply it.

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NJN WR 10/24/86: Kent Dobbins, (c) president of KD & O Mining (c) P O Box 4149 Kingman, Arizona 86402, no phone. Mr. Dobbin's personal address is 603 W. Kinsly, Springfield, Mo 65807 (417) 881-8810 visited looking for metallurgical information. They have a gravity mill set up at the Kemple Camp (Gold Crown - file) Mohave County. Mr. Dobbins reported off and on activity at the property during the previous 7 years which has included sporadic air track drillings up to 50' deep. Unfortunately, not having a mining background, no surveys drill logs or other assay records have been kept and no reserves have been established. The gravity mill was constructed, however, because Mr. Dobbins knows the gold is there. They would like to heap leach the country rock in between the quartz veins as they believe it is mineralized.

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RRB WR 10/17/86: Provided information about the KDO Mining Co Inc (c) of Springfield, MO to Bettina Chandler of the Securities Division, Corporation Comm. Her counterpart in Missouri is investigating their operations. Kent Dobbins and Terry Mooneyham are promoting the property.

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NJN WR 6/17/88: K.D. & O. Mining (card) remain at the Kemple Camp (Gold Crown-file) Mohave County and have added a few new pieces of milling equipment but are apparently not attempting to operate.

---

Hamm

GOLD ROWN (F)

86430200

STATE MINE INSPECTOR

FOR OFFICE USE ONLY

JAN 16 1986

START-UP NUMBER \_\_\_\_\_  
STATE NUMBER \_\_\_\_\_  
MSHA NUMBER \_\_\_\_\_

NOTICE TO ARIZONA STATE MINE INSPECTOR

In compliance with Arizona Revised Statute Section 27-303, we are submitting this written notice to the Arizona State Mine Inspector of our intent to start  stop \_\_\_\_\_ move \_\_\_\_\_ (please check one) a mining operation.

If this is a move, please show last location: \_\_\_\_\_  
If you have not operated a mine previously in Arizona, please check here:  If you want the Education & Training Division to assist with your mine safety training, please check here:  If this operation will use Cyanide for leaching, please check here: \_\_\_\_\_

COMPANY NAME: K. D. & O Mining Inc.

DIVISION: \_\_\_\_\_

MINE OR PLANT NAME: Kismet #1 TELEPHONE: 417-881-8810

CHIEF OFFICER: Kent Dobbins

COMPANY ADDRESS: 603 W Kingsley

CITY: Springfield STATE: Missouri ZIP CODE: 65807

MINE OR PLANT LOCATION: (Include county and nearest town, as well as directions for locating property by vehicle). MORRIS County. 9 miles North West of Dolan Springs Turnoff at mile marker 33 on Highway 93 north. Mine is 3 1/2 miles off Highway on Dial Road - next to KEMPLE CAMP

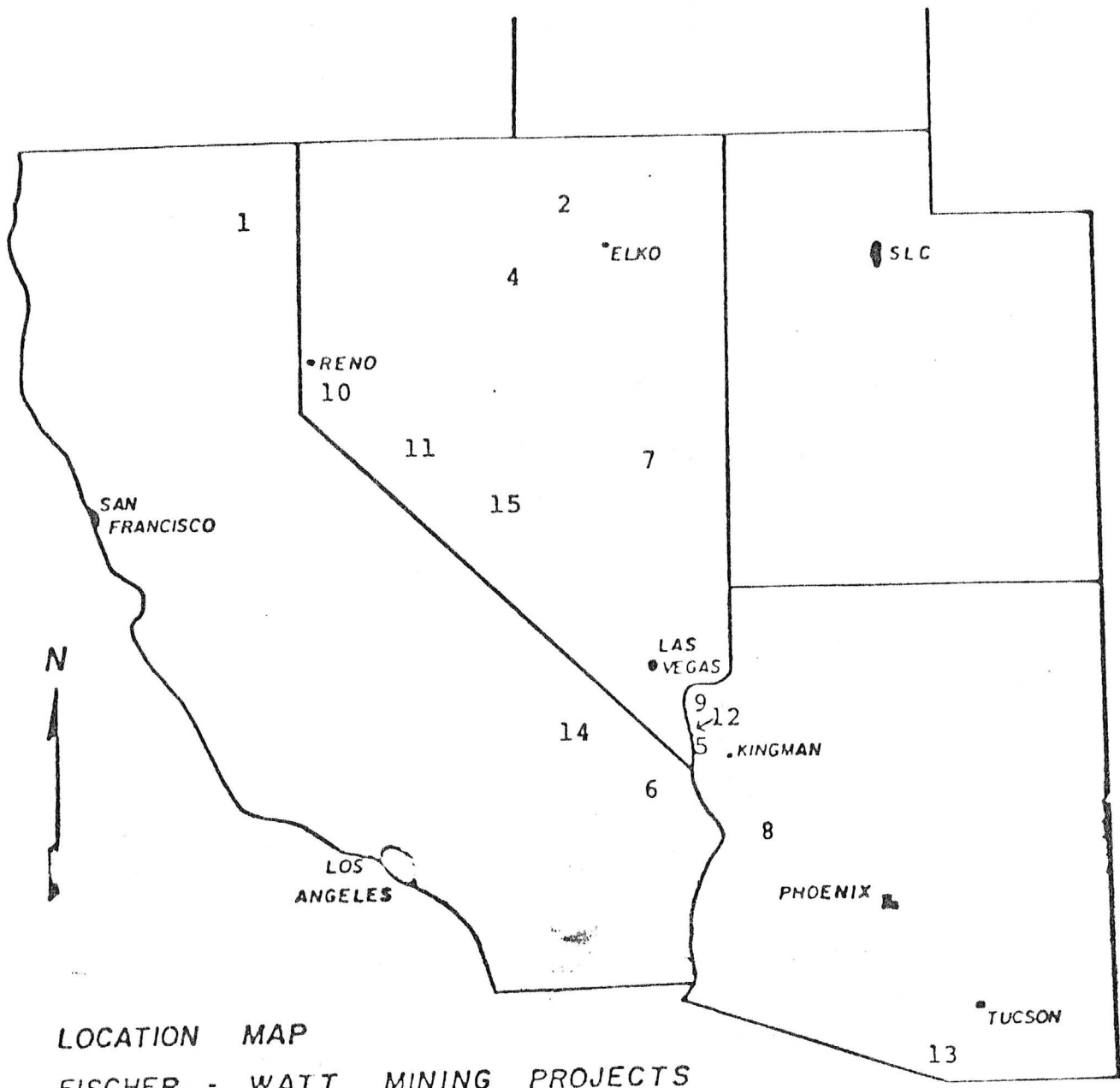
TYPE OF OPERATION: Gravity Mill PRINCIPAL PRODUCT: Gold

STARTING DATE: April? CLOSING DATE: \_\_\_\_\_ DURATION: Perpetual

PERSON COMPLETING NOTICE: TERRY MOONEYHAM TITLE: Stockholder - EMPLOYEE

DATE NOTICE MAILED TO STATE MINE INSPECTOR: Jan 15 - 86

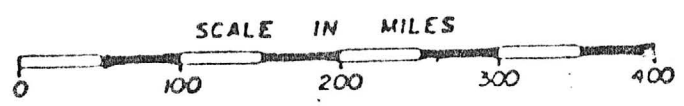
Perry Durning  
 602-753-1622  
 JANUARY 1985  
 3



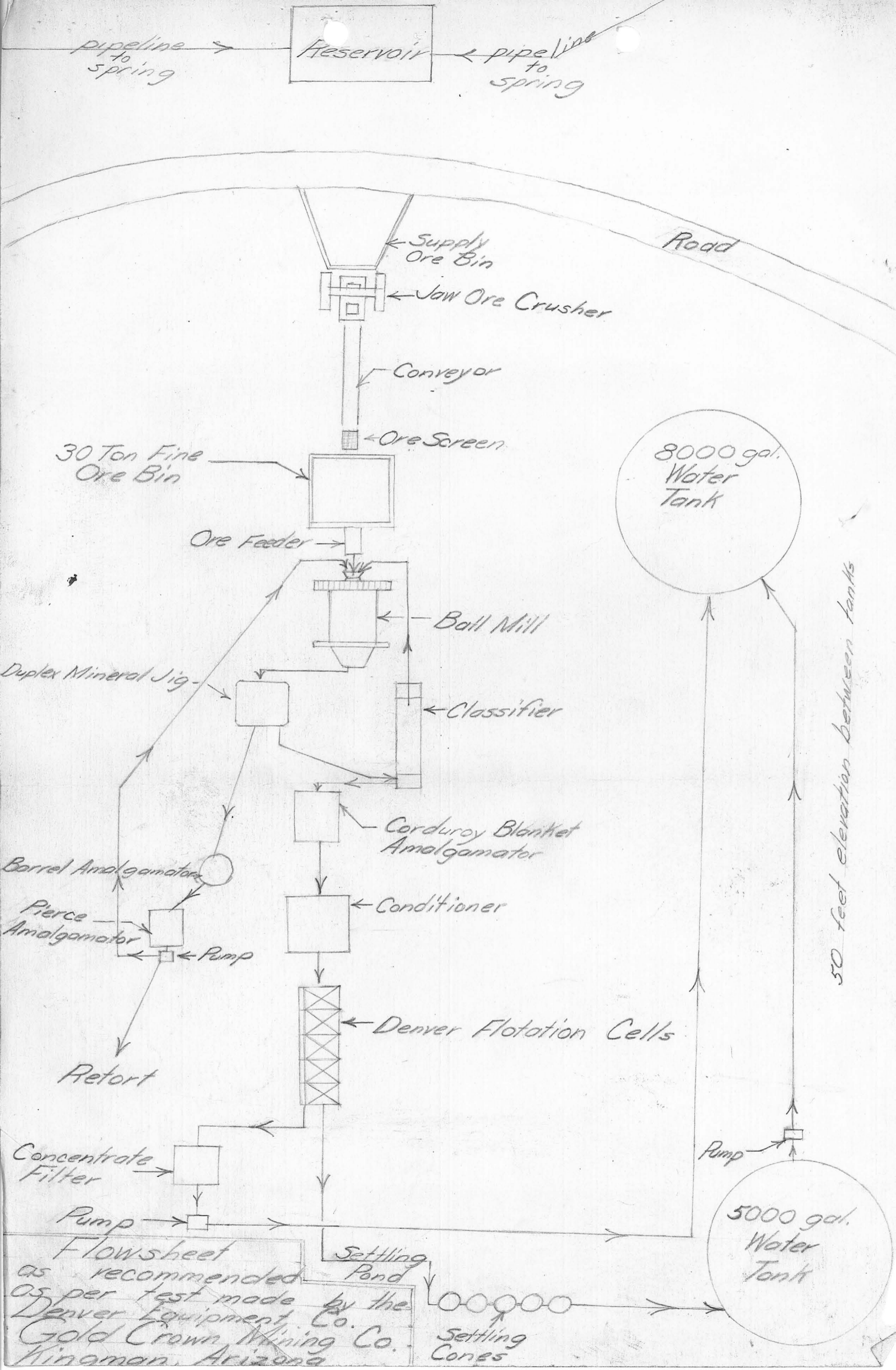
LOCATION MAP  
 FISCHER - WATT MINING PROJECTS

- |                              |   |
|------------------------------|---|
| 1 Hayden Hill                | 9 Van Deeman (MOHAVE CO Figure 1          |
| 2 Dexter                     | 10 Comstock                               |
| 3 Democrat                   | 11 Bovard Rand                            |
| 4 Buffalo Valley             | 12 Kemble Camp - GOLD CROWN (F) MOHAVE CO |
| 5 Roadside (F) MOHAVE CO     | 13 Border Mine (F) PIMA                   |
| 6 Golden Syncline            | 14 Mineral Springs                        |
| 7 Pancake                    | 15 Gemfield                               |
| 8 Little Butte (F) LA PAZ CO |   |

(additional data in pocket)



Project	Land holdings (acres)		Current FWM Interest	J.V. Partner	Commitment Required by J.V. to earn interest	Diluted FWM Interest after commitment	Ore Reserves Type of Deposit	Tonnage	o/T Au o/T Ag		Project Status
	Located	Leased							o/T Au	o/T Ag	
Hayden Hill Lassen Co. California	950	2800	50% working	Pecos Resources Vancouver B.C. Canada	Already earned \$1.6x 10 <sup>6</sup> expended in 1984	50% working subject to 3% Net Profits Finders Fee	Open pit-Heap leach Drill Indio Add pot.	7,900,000T +12,000,000T	0.042 +0.05	0.40	Active J.V., ore reserves defined, ready for production 825 oz Au produced in 1984
Dexter Elko Co Nevada	1,100	300	25% Net Profits Carried	Pecos Resources Goldbelt Res Vancouver B. C. Canada	Already earned \$1.9x 10 <sup>6</sup> expended in 1984	25% Net Profits Carried	Open pit-Heap Leach Drill prov. Add pot.	2,000,000T +2,000,000T	0.019 as above	1.90	Active J.V., ore reserves defined, ready for production. Minor production in 1984
Democrat Lemhi Co Idaho	-0-	550	50% Net Profits Carried	Democrat Resources Vancouver B.C. Canada	\$1.3x 10 <sup>6</sup> already expend \$2.2x 10 <sup>6</sup> must be expend to earn 50% interest	50% working or be diluted to 6% Net Profits Carried	Underground Milling drill & spl Potential	50,000T Could be large	0.09 15% Pb	9.00 5%Zn	Active J.V., further exploration required prior to production
Buffalo Valley Lander Co Nevada	-0-	2800+	5% Net Profits	Consolidated Mining Denver Colorado	None	5% Net Profits Carried	Open Pit-Heap leach drill ind. Add pot	750,000T unknown	0.07		Inactive J.V., ore reserves defined, ready for production
Roadside Mohave Co Arizona	-0-	5820	50% Net Profits Carried	Pecos Resources Anaconda Mineral Denver Colorado	+5200,000 expended must expend \$1.5x 10 <sup>6</sup> by 6/87 to earn interest	20% working 7.5% Net Profits carried Subject to 3% Net Profits finders fee	Open pit-Heap leach Drill ind. Add pot	300,000T Could be large	0.03		Active J.V., further exploration in progress
Golden Syncline San Bern California	1,760	1,800	100%				Open pit-heap leach potential	Could be very large	speculate +0.05		Geology, geochem completed drill targets defined
Pancake Nye Co Nevada	1,540	-0-	100%				Open pit-Heap leach Potential	Could be very large	speculate 0.05-0.10		Limited geology and geochem completed. Further work required to define drill targets
Little Butte La Paz Co Arizona	-0-	800	100%				Open pit Heap leach Potential	2,000,000T	0.03-0.07		Geology and geochem completed, drill targets defined
Van Deeman Mohave Co Arizona	-0-	500	100%				Open pit-Heap Leach Potential	1,000,000- 2,000,000 T	0.04-0.07		Geology and geochem completed, drill targets defined
Comstock Storey Co Nevada	55	175	100%	Westley Mines Vancouver B.C. Canada	Expend \$500,000 to earn 80% interest	20% working interest Subject to dilution	Underground Milling Potential	+1,000,000T	+0.50	+20.0	Geology and geochem completed, drill targets defined
Bovard-Rand Mineral Co Nevada	40	550	100%				Open pit-Heap leach Potential Underground Milling Potential	+500,000T +500,000T	0.05-0.10 0.20-0.40	+10.00	Preliminary geology and geochem completed drill targets defined for open pit reserve. Further work required for underground drill target
Kemble Camp Mohave Co Arizona	700	-0-	100%				Open pit-Heap leach Potential	+2,000,000T	0.03-0.07		Geology and geochem completed, drill targets defined
Border Mine Pima Co Arizona	400	-0-	100%				Open pit-Heap leach Potential	+1,000,000T	0.03-0.06		Initial geology and geochem completed. Further work required to define drill target
Mineral Springs San Bern California	320	-0-	100%				Open pit-Heap leach Potential	+2,000,000T	0.04-0.07		Initial geology and geochem completed. Further work required prior to drilling
Gemfield Esmeralda Co Nevada	-0-	140	1% Net Smelter Royalty	Santa Fe Minerals Reno Nevada	Take over terms of FWM lease	1% Net Smelter Royalty	Open pit-Heap leach Potential	+1,000,000T	unknown		Actively being explored by partner



GOLD CROWN MINE

12/17/76

MOHAVE COUNTY  
T26N R20W Sec 31 NW 1/4

Kingman Mining Project, Claim map 4

See: "Cerberat Mtn. Country", Roman Malach, Mohave Cty. Historian, Pg. 41,  
1982.

Duplicated  
for Content  
Review

Kemple  
Group

1-9-06



DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
OWNERS MINE REPORT

Date December 3, 1940

Mine Gold Crown Mine

Mining District & County - Weaver District  
Mohave County

Location - 39 miles northwest of  
Kingman, highway U.S. 93, then  
west 3 miles.

Former name - Utah Arizona Gold and Copper  
Mining Company

Owner - Gold Crown Mining Company

Address - Office at property.

P.O. address, Box 622, Kingman, Ariz.

Operator - Gold Crown Mining Company

Address - Box 622, Kingman, Arizona

President - J. F. Shelley

Gen. Mgr. - J. F. Shelley

Mine Supt.

Mill Supt.

Principal Metals - Gold, Silver, Copper

Men Employed - 1 to 4 men during past  
year.

Production Rate

Mill: Type & Cap. - See paper attached.

Power: Amt. & Type - See paper attached.

Operations: Present - 1 to 4 men developing ore bodies, doing  
assessment work, etc.

Operations: Planned - To get financed to get the necessary machinery to complete our  
mill and run it ourselves, or to lease under a royalty basis,  
or to lease under lease and bond on some fair and equitable  
basis.

Number Claims, Title, etc. - 62 claims, as per map attached. No patented claims.

Description: Topography & Geography - The property is typical of the River Range,  
Mohave County. Somewhat abrupt and high mountain ranges on  
the west, shading down into rolling hills through the center  
of the property.

Mine Workings: Amt. & Conditions - We have approximately 4000 ft. of development work  
done on our different claims, in drifts, tunnels, shafts,  
surface cuts, and up raises. This is all in good condition.

Geology & Mineralization The values in our ores comes in quartz, granite, calcite, schists, porphyry, diorite, hematite and quartzite.

Ore: Positive & Probable, Ore Dumps, Tailings - We have around 1500 tons of tailings from which a general assay taken averaged \$5 per ton. We figure we have around 400 tons of ore close to the mill, no mill level in dumps, that will run from \$5 to \$10 per ton. We have practically developed in our Pride of the West claim, around 2000 tons of ore ready to take out on mill level and above; 130 ft. stoping from tunnel level to the top of the hill where we have an opencut on vein of 120 ft. The track is now in from the mill in the tunnel to this ore body. We figure this ore will run from \$10 to \$20 per ton, and the vein is from one to three ft. wide. It will cost from \$5 to \$4 per ton to mine this ore and put it in the mill. We have caught this ore on the mill level by running a tunnel 200 ft. to this ore body. This same tunnel we have driven in the mountain 450 ft.. We caught the above vein at the 200 ft. point. We should run this 450 ft. tunnel another 50 ft. where we should crosscut another vein about the same value in the ore and also the width about the same as the vein we have already developed. However if we catch this vein as we anticipate we should have 250 ft. stoping on the vein from tunnel level to the top of the hill. Then, if we continue this tunnel about 100 ft. further we will catch a third vein that is considerably wider and the values should be approximately about the same, but very little work has been done on this vein. We have a large body of partially determined ore from 10 to 15 ft. wide from which assays show runs from \$4 to \$9 per ton. This ore can be mined and put in the mill for about 50 cents per ton, as it is near the mill. Our largest body of ore. known as the Monster claim or Monster group of claims lies about 13/4 miles from the mill and this vein is around 25 ft. wide. We have developed this for about 300 ft. up the hill and from numerous assays and a number of mill runs in quantity lots at different times, this ore should average \$7 per ton. We believe we have at least 10,000 tons of positive ore now developed in this claim. This ore can be mined and delivered at the mill for around \$1 per ton. We have at least 12 more different claims where we have ore facings and partially developed where milling ore can be obtained. We also have a number of high grade narrow veins. There has been taken out of our Golden Gate claim around \$75,000 in gold.

13 and 17. Mill: Type and Cap. No. 25. Mine, Mill Equipment and Flow-Sheet.

We have a good mill building of about 3000 square feet floor space, with ample fall from the crushing mill through different stages to the tailing pond, and the following machinery on hand which is in good condition:

- 1 - 25 HP Fairbanks Morse Oil engine.
- 1 - 90 HP Continental gas engine
- 5 - No. 15 Denver equipment flotation cells.
- 1 - 17 HP electric generator with switch board and transformer.
- 1 - 1 HP electric motor.
- 1 - 2 HP electric motor
- 1 - Barrel Amalgamator
- 1 - Pierce Amalgamator
- 1 - 30-ton fine ore bin.
- 1 - Ore screen
- 1 - Ore feeder
- 1 - 7 by 10 Allis Chalmers Crusher
- 6 - Cone settling tanks.
- 1 - 3-1/2 HP gas engine
- 1 - Centrifugal Pump

We have now on hand one 50-ton lane slow speed mill which should be taken out and the following machinery should be installed to make our mill complete for a 50-ton mill as outlined by tests made.

- |                         |                      |                                       |
|-------------------------|----------------------|---------------------------------------|
| 1 - Ball mill           | 1 - Corduroy Blanket | 1 - Concentrate filter and pump       |
| 1 - Classifier          | Amalgamator          |                                       |
| 1 - Duplex Mineral Jig. | 1 - Conditioner      | 1 - Ore crusher and 110 ft. conveyor. |

In addition to the equipment listed above we have the following:

- 1 - 16,000 gal. cement reservoir on the hill above the mill which our water supply runs into by gravity.
- 2 - 8,000 gal. tanks; 1- 5,000 gal. tank; 2 - 500 gal. tanks;
- 1 - 10 by 10 Fairbanks Morse Compressor; 1 - 6 HP Fairbanks Morse Gas engine with hoist; 1 - hoist cable, 250 ft.; 2 - 1200 lbs. ore cars.; 1500 ft. ore car rails; 1 Ingersol Jack Hammer; 1 jackhammer stand; 1 tank water pressure for jackhammer.; 1 Sullivan Stoper; 1 lot jackhammer steel.; 1 lot stoper steel; 1 large air receiver; 1 small air receiver; 1 - 640 gal. truck water or oil tank; 2 wheelbarrows, shovels, picks, hammers and other small equipment. 3 miles 2-inch pipe line, 1 mile 1-inch pipe line, 1 mile 3/4 inch pipe line. Blacksmith shop and equipment, boarding house and 4 cabins.

We need the following equipment to complete our mill as per flow-sheet attached: 1 Jaw Crusher; 1 Conveyer; 1 Ore Screen; 1 Ball Mill; 1 Classifier; 1 Duplex Mineral Jig; 1 Corduroy Blanket Amalgamator (made on ground); 1 Conditioner; 1 Concentrate Filter; 2 small pumps; some extra belting, pipe and other connections.

Road Conditions, Route - Property is located 39 miles northwest of Kingman, highway U.S. 93 then west 3 miles to property over a good dirt road, and numerous roads from camp to the various claims. Or about 33 miles southeast on highway U.S. 93 from Boulder Dam then west to property.

Water Supply - Our water supply consists of 2 springs in Cottonwood canyon from where we have a pipe line which delivers the water by gravity to our reservoir on the hill above the mill. We have driven a tunnel in the mountain about 75 ft. where we have another small stream of water running by gravity through a pipe line to our reservoir above the mill. We also have 2 shafts now full of water which we can connect up with our pipe line by putting in another pipe line for about half a mile. These 2 shafts of water are on our Golden Gate property. We can also develop water on our Daisy claim. We believe we have sufficient water now developed to run a 50-ton mill and by further development and putting all our sources of water together we will have sufficient water to run a 100-ton mill.

Brief History

Special Problems, Reports Filed

Remarks

If property for sale: Price, terms and address to negotiate - See paragraph -  
Operations planned.

Address, Gold Crown Mining Co.  
P.O. Box 622  
Kingman, Arizona

SIGNED - Gold Crown Mining Company  
J. F. Shelley, President.

In addition to the equipment listed above we have the following:

- 1 - 16,000 gal. cement reservoir on the hill above the mill which our water supply runs into by gravity.
- 2 - 8,000 gal. tanks; 1- 5,000 gal. tank; 2 - 500 gal. tanks;
- 1 - 10 by 10 Fairbanks Morse Compressor; 1 - 6 HP Fairbanks Morse Gas engine with hoist; 1 - hoist cable, 250 ft.; 2 - 1200 lbs. ore cars.; 1500 ft. ore car rails; 1 Ingersol Jack Hammer; 1 jackhammer stand; 1 tank water pressure for jackhammer.; 1 Sullivan Stoper; 1 lot jackhammer steel.; 1 lot stoper steel; 1 large air receiver; 1 small air receiver; 1 - 640 gal. truck water or oil tank; 2 wheelbarrows, shovels, picks, hammers and other small equipment. 3 miles 2-inch pipe line, 1 mile 1-inch pipe line, 1 mile 3/4 inch pipe line. Blacksmith shop and equipment, boarding house and 4 cabins.

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Brief History

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Address, Gold Crown Mining Co.  
P.O. Box 622  
Kingman, Arizona

SIGNED - Gold Crown Mining Company  
J. F. Shelley, President.

NW 1/4  
Sec 31  
T34N  
R20W

MG-34

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
OWNERS MINE REPORT

Date Feb. 1, 1940

Mine Gold Crown Mine

Location 39 miles northwest of Kingman  
Highway U.S.93, thence west 3 miles

District Weaver Mining District

Former name Kemple Camp

Owner Gold Crown Mining Co.

Address P.O.Box 622, Kingman, Ariz.

Operator "

Address

President J. F. Shelley

Gen. Mgr. J. F. Shelley

Mine Supt. "

Mill Supt. "

Principal Metals Gold, silver & copper

Men Employed

Production Rate

Mill: Type & Cap.

Power: Amt. & Type

Operations: Present Developing ore bodies and keeping up our assessment work on claims

Operations Planned It is necessary for us to get financed to get additional machinery adapted to our ores in order to save the values in our ores.

Number Claims, Title, etc. We have 62 claims and have developed about 20 of these to quite a large extent.

Description: Topog. & Geog. For the most part the topography is rugged as the rest of the River Range, with easy sloping hillsides, permitting the construction of roads of easy grade from the main road and camp to any part of the property. The property is located 39 miles NW of Kingman, Highway U.S. 93 then west 3 miles

Mine Workings: Amt. & Condition We have over 1,000 feet of tunnels, and numerous drifts, shafts and open cuts.

Geology & Mineralization The country rock of the Gold Crown Mines group is similar to that of the district, being the schists, granite-gneiss, gneissoid granites and quartz.

Ore: Positive & Probable, Ore Dumps, Tailings

Ore: Positive & Probable. Ore Dumps, Tailings.

We figure we have at least 20,000 tons of positive ore in sight and several hundred thousand tons of probable ore, several dumps and about 1,500 tons tailings.

We have two very large ore bodies, one is 25 foot wide, will go about \$6.00 or \$7.00 per ton and 3/4 percent copper, This ore can be delivered to the mill with truck and loader for \$1.00 per ton.

Another large ore body which is 40 foot wide will run about \$5.00 or \$6.00 per ton in gold and silver, no copper present, and this ore can be delivered to the mill with truck and loader for \$.50 per ton.

We have numerous other veins of good ore opened up to some extent.

Mine, Mill Equipment & Fl

Equipment and

- 2 8,000 galls
- 1 3,000 "
- 1 5,000 "
- 2 500 "

1 Screen

- 1 7 by 10 Allis Chalmers Jaw c
- 1 Ore feeder
- 5 No. 15 Denver Equipment Co.
- 1 Generating plant complete wi
- 2 Motors, a one and a two HP
- 1 Pierce amalgamator
- 1 25 HP Fairbanks Morse oil en
- 1 10 by 10 " " compre
- 1 Centrifical pump
- 5 Settling tanks
- 1 90 HP Mitchell gas engine
- 1 6 HP Fairbanks Morse engine
- 1 Hoist cable, 250 feet
- 1 3 - 3 1/2 HP Sears engine
- 2 1,200# ore cars
- 1 Ingersol Hand Jack hammer
- 1 Jack hammer stand
- 1 Tank water pressure for above
- 1 Sullivan stoper & stoper steel
- 1 Lot Jack hammer steel
- 1 Large air receiver
- 1 Small air receiver
- 1 Truck oil tank
- 1 Water bailer

Screen

Jaw crusher

Fine or bin

Ball mill

Jigg

Classifier

Corduroy blanket

Conditioner

5 Flotation cells

Thickener

Filter

Tailing pond

5 Settling tanks

Tank &

3 1/2 HP engine &

Centrifical pump

tank

Amalgamation unit

Pierce amalgamation retard, etc.

Equipment and machinery wanted.

Ball mill, 5 ft. by 4 or 4 1/2

Classifier

12 by 18 mineral jigg, Denver Equipment Co. make

1 Amalgamation unit, consisting of barrel amalgamator with amalgam separator combined. Denver Equipment make.

1 Corduroy blanket amalgamator, we will make

1 Conditioner

1 Thickener

1 Filter for concentrates

2 Small motors

1 Small centrifical pump

Belting and sundry items

Fraight and installation in mill

Geology & Mineralization The country rock of the Gold Crown Mines group is similar to that of the district, being the schists, granite, and gneiss.

Ore: Positive & Probable,

Mine, Mill Equipment & Flow Sheet

Equipment and Machinery on hand

- 2 8,000 gallon tanks
- 1 3,000 " "
- 1 5,000 " "
- 2 500 " "
- 1 Screen
- 1 7 by 10 Allis Chalmers Jaw c
- 1 Ore feeder
- 5 No. 15 Denver Equipment Co.
- 1 Generating plant complete wi
- 2 Motors, a one and a two HP
- 1 Pierce amalgamator
- 1 25 HP Fairbanks Morse oil en
- 1 10 by 10 " " compre
- 1 Centrifical pump
- 5 Settling tanks
- 1 90 HP Mitchell gas engine
- 1 6 HP Fairbanks Morse engine
- 1 Hoist cable, 250 feet
- 1 3 - 3 $\frac{1}{2}$  HP Sears engine
- 2 1,200# ore cars
- 1 Ingersol Hand Jack hammer
- 1 Jack hammer stand
- 1 Tank water pressure for above
- 1 Sullivan stoper & stoper steel
- 1 Lot Jack hammer steel
- 1 Large air receiver
- 1 Small air receiver
- 1 Truck oil tank
- 1 Water bailer

Cement reservoir above the mill

Truck road

truck road

ore supply bin

0 8,000 gal. tank

- Screen
- Jaw crusher
- Fine or bin
- Ball mill
- Jigg
- Classifier
- Corduroy blanket
- Conditioner
- 5 Flotation cells
- Thickener
- Filter
- Tailing pond
- 5 Settling tanks
- Tank &
- 3 $\frac{1}{2}$  HP engine &
- Centrifical pump
- Amalgamation unit
- Pierce amalgamation retard, etc.

Equipment and machinery wanted.

- Ball mill, 5 ft. by 4 or 4 $\frac{1}{2}$
- Classifier
- 12 by 18 mineral jigg, Denver Equipment Co. make
- 1 Amalgamation unit, consisting of barrel amalgamator with amalgam separator combined. Denver Equipment make.
- 1 Corduroy blanket amalgamator, we will make
- 1 Conditioner
- 1 Thickener
- 1 Filter for concentrates
- 2 Small motors
- 1 Small centrifical pump
- Belting and sundry items

Geology & Mineralization The country rock  
of the district, being the sch

Ore: Positive & Probable,

Mine, Mill Equipment & Flow Sheet

Equipment and Machinery on hand

- 2 8,000 gallon tanks
- 1 3,000 " "
- 1 5,000 " "
- 2 500 " "
  
- 1 Screen
  
- 1 7 by 10 Allis Chalmers Jaw crusher
- 1 Ore feeder
- 5 No. 15 Denver Equipment Co. flotation cells
- 1 Generating plant complete with engine, 17 HP
- 2 Motors, a one and a two HP
- 1 Pierce amalgamator
- 1 25 HP Fairbanks Morse oil engine
- 1 10 by 10 " " compressor
- 1 Centrifical pump
- 5 Settling tanks
- 1 90 HP Mitchell gas engine
- 1 6 HP Fairbanks Morse engine with hoist
- 1 Hoist cable, 250 feet
- 1 3 - 3 $\frac{1}{2}$  HP Sears engine
- 2 1,200# ore cars
- 1 Ingersol Hand Jack hammer
- 1 Jack hammer stand
- 1 Tank water pressure for above jack hammer
- 1 Sullivan stoper & stoper steel
- 1 Lot Jack hammer steel
- 1 Large air receiver
- 1 Small air receiver
- 1 Truck oil tank
- 1 Water bailer

Equipment and machinery wanted.

Ball mill, 5 ft. by 4 or 4 $\frac{1}{2}$

Classifier

12 by 18 mineral jigg, Denver Equipment Co. make

1 Amalgamation unit, consisting of barrel amalgamator with amalgam separator combined.

Denver Equipment make.

1 Corduroy blanket amalgamator, we will make

1 Conditioner

1 Thickener

1 Filter for concentrates

2 Small motors

1 Small centrifical pump

Belting and sundry items



Water Supply

Water Supply.

Our main supply comes from springs in Cottonwood Canyon about 1/3 mile to a reservoir across the canyon, then through a two inch pipe line, a distance of 3 miles, to a 15,000 gallon cement reservoir on the hill just above the mill.

The water supply from our Daisy claim connects up with the pipe line coming from the Cottonwood canyon, about 3/4 miles from the reservoir above the mill, all running by gravity.

Our Omega water supply comes from a tunnel in a mountain northwest of the mill about 1 1/2 miles and runs by gravity to the reservoir above the mill.

We also have two shafts on our Golden Gate claim now full of water and makes considerable water.

By combining all our water sources we are satisfied we have sufficient water for a 100 ton mill and no doubt a great deal more water can be developed from these sources.

If property for sale: Price, terms and address to negotiate. We will lease on a royalty basis on a long term lease, or if necessary will give bond and lease.

Signed Gold Crown Mining Co. J. F. Shelley, Pres.

Use additional sheets if necessary.

MG-34

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
OWNERS MINE REPORT

Date Feb. 1, 1940.

Mine Gold Crown Mine

District Weaver Mining District

Location 39 miles north west of Kingman  
highway U.S. 93, then west 3 miles

Former name Kemple Camp

Owner Gold Crown Mining Co. ✓

Address P.O. Box 622, Kingman, Ariz

Operator " " " " ✓

Address " " " "

President J. F. Shelley

Gen. Mgr. J. F. Shelley

Mine Supt. " " ✓

Mill Supt. " " ✓

Principal Metals gold, silver + copper ✓

Men Employed

Production Rate

Mill: Type & Cap.

Power: Amt. & Type

Operations: Present

Developing ore bodies and keeping up our  
assessment work on claims.

Operations Planned

It is necessary for us to get financed to get  
additional machinery adapted to our ores in order  
to save the values in our ores.

Number Claims, Title, etc.

We have 62 claims and have developed  
about 20 of these to quite a large extent.

Description: Topog. & Geog.

For the most part the topography is rugged  
as the rest of the River Range, with easy sloping  
hillsides, permitting the construction of roads of easy  
grade from the main road and camp to any part of  
the property. The property is located 39 miles n w of Kingman  
Highway U.S. 93 then west 3 miles.

Mine Workings: Amt. & Condition

We have over 1000 feet of tunnels, and  
numerous drifts, shafts and open cuts.

Geology & Mineralization

The country rock of the Gold Crown Mines group is similar to that of the district, being the schists, granite-gneiss, gneissoid granites and quartz.

Ore: Positive & Probable, Ore Dumps, Tailings

Mine, Mill Equipment & Flow Sheet

Equipment and Machinery on hand

- 2 8000 gallon tanks
- 1 3000 " "
- 1 5000 " "
- 2 500 " "
- 1 Screen
- 1 7 by 10 Allis Chalmers ore feeder
- 5 No 15 Denver Equipment generating plant complete
- 2 motors, a one and a two
- 1 Pierce amalgamator
- 1 25 H P Fairbanks Morse
- 1 10 by 10 " "
- 1 centrifugal pump
- 5 settling tanks
- 1 90 H P Mitchell gas engine
- 1 66 H P Fairbanks Morse
- 1 hoist cable, 250 feet
- 1 3 - 3 1/2 H P Sears engine
- 2 1200# ore cars
- 1 Ingersol Rand jack hammer
- 1 jack hammer stand
- 1 tank water pressure for
- 1 Sullivan stoper & stoper
- 1 lot jack hammer steel
- 1 large air receiver
- 1 small air receiver
- 1 truck oil tank
- 1 water bailer

Equipment and machinery

- ball mill, 5 ft by 4 or 4 1/2
- classifier
- 12 by 18 mineral jugg, Denver
- 1 amalgamation unit, consisting of Denver Equipment
- 1 corduroy blanket amalgamator
- 1 conditioner
- 1 thickener
- 1 filter for concentrates
- 2 small motors
- 1 small centrifugal pump

Ore; Positive & Probable. Ore Dumps, Tailings.

We figure we have at least 20000 tons of positive ore in sight and several hundred thousand tons of probable ore, several dumps and about 1500 tons tailings.

We have two very large ore bodies, one is 25 foot wide, will go about \$6.00 or \$7.00 per ton and 3/4 percent copper, This ore can be delivered to the mill with truck and loader for \$1.00 per ton.

Another large ore body which is 40 foot wide will run about \$5.00 or \$6.00 per ton in gold and silver, no copper present, and this ore can be delivered to the mill with truck and loader for \$.50 per ton.

We have numerous other veins of good ore opened up to some extent.

- jugg 4
- classifier 4
- corduroy blanket 4
- conditioner 4
- 5 flotation cells 4
- thickener 4
- filter 4
- tailing pond 4
- 5 settling tanks 4
- tank 4
- 3 1/2 H P engine + centrifugal pump 4
- amalgamation unit Pierce amalgamator retard, etc

Geology & Mineralization

The country is similar to granite-gneiss.

Ore: Positive & Probable, Ore Dumps

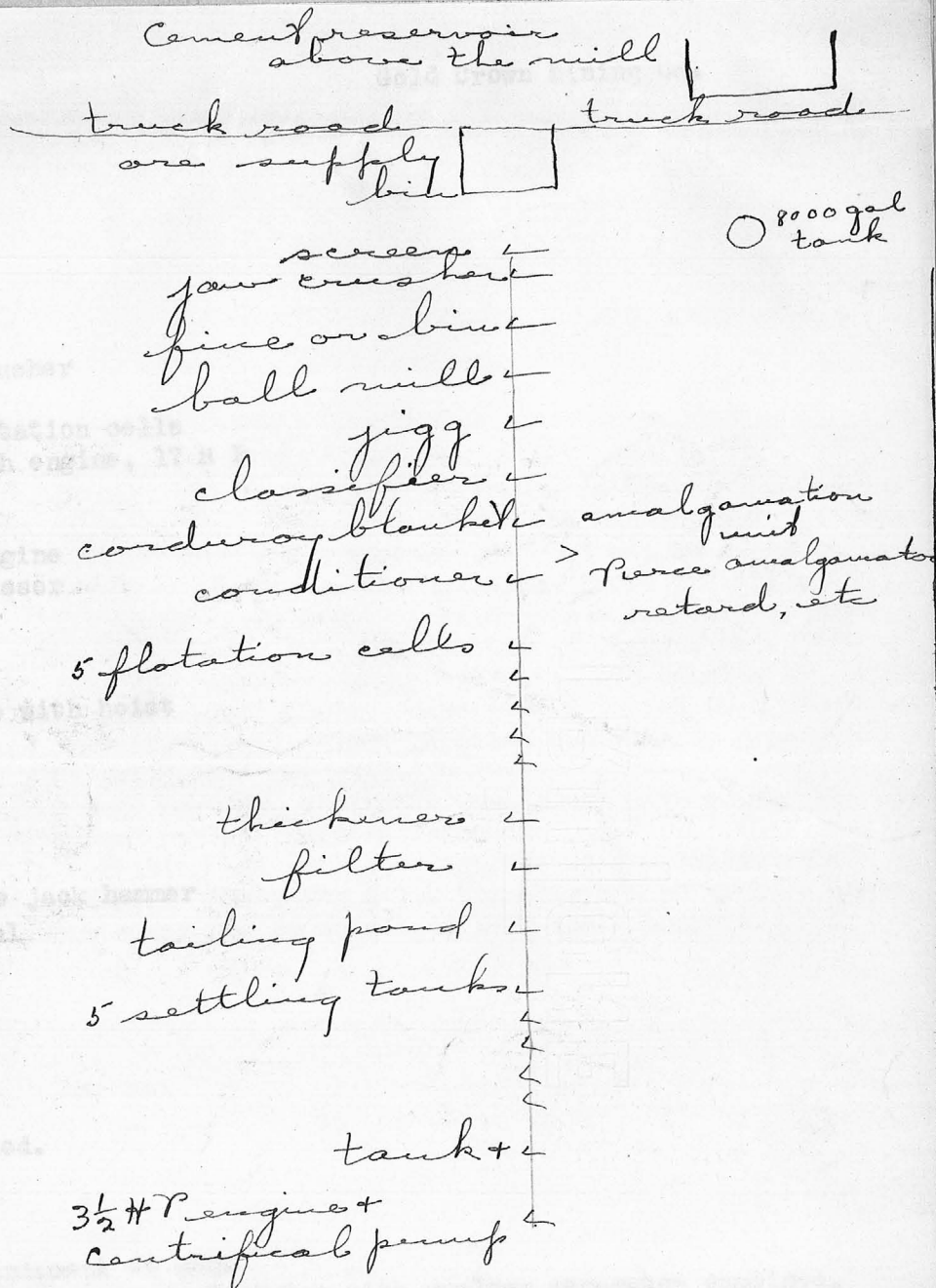
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- 1 10 by 10 " "
- 1 centrifical pump
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- 1 water bailer

Equipment and machinery

- ball mill, 5 ft by 4 or 4 1/2
- classifier
- 12 by 18 mineral jig, Denver
- 1 amalgamation unit, consisting of Denver Equipment
- 1 corduroy blanket amalgamator
- 1 conditioner
- 1 thickener
- 1 filter for concentrates
- 2 small motors
- 1 small centrifical pump



Geology & Mineralization

*The count  
is similar to  
granite - gneiss*

Ore: Positive & Probable, Ore Dump

Mine, Mill Equipment & Flow Sheet

Equipment and Machinery on hand.

Gold Crown Mining Co.

- 2 8000 gallon tanks
- 1 3000 " "
- 1 5000 " "
- 2 500 " "
  
- 1 Screen
  
- 1 7 by 10 Allis Chalmers jaw crusher
- 1 ore feeder
- 5 No 15 Denver Equipment Co flotation cells
- 1 generating plant complete with engine, 17 H P
- 2 motors, a one and a two H P
- 1 Pierce amalgamator
- 1 25 H P Fairbanks Morse oil engine
- 1 10 by 10 " " compressor
- 1 centrifical pump
- 5 settling tanks
- 1 90 H P Mitchell gas engine
- 1 66 H P Fairbanks Morse engine with hoist
- 1 hoist cable, 250 feet
- 1 3 - 3 1/2 H P Sears engine
- 2 1200# ore cars
- 1 Ingersol Rand jack hammer
- 1 jack hammer stand
- 1 tank water pressure for above jack hammer
- 1 Sullivan stoper & stoper steel
- 1 lot jack hammer steel
- 1 large air receiver
- 1 small air receiver
- 1 truck oil tank
- 1 water bailer

Equipment and machinery wanted.

- ball mill, 5 ft by 4 or 4 1/2
- classifier
- 12 by 18 mineral jigg, Denver Equipment Co make
- 1 amalgamation unit, consisting of barrel amalgamator with amalgam separator combined,  
Denver Equipment make
- 1 corduroy blanket amalgamator, we will make
- 1 conditioner
- 1 thickener
- 1 filter for concentrates
- 2 small motors
- 1 small centrifical pump
- belting and sundry items
- freight and installation in our mill,

Road Conditions, Route

Water Supply

Brief History

*Part of this  
White Hills can  
purchased by  
sons and since  
Hemple Camp.*

Special Problems, Reports Filed

Remarks

*We are trying  
as attached f*

#### Water Supply.

Our main supply comes from springs in Cottonwood Canyon about 1/3 mile to a reservoir across the canyon, then through a two inch pipe line, a distance of 3 miles, to a 16000 gallonement reservoir on the hill just above the mill.

The water supply from our Daisy claim connects up with the pipe line coming from the Cottonwood canyon, about 3/4 miles from the reservoir above the mill, all running by gravity

Our Omega water supply comes from a tunnel in a mountain north west of the mill about 1 1/2 miles and runs by gravity to the reservoir above the mill.

We also have two shafts on our Golden Gate claim now full of water and makes considerable water.

By combining all our water sources we are satisfied we have sufficient water for a 100 ton mill and no doubt a great deal more water can be developed from these sources.

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

*We will lease on a royalty basis on a long term lease, or if necessary will give bond and lease.*

Signed Gold Crown Mining Co.

Use additional sheets if necessary.

*J. F. Shelley Pres.*

Road Conditions, Route

Water Supply

Brief History

Part of this property was originally owned by the White Hills company across the valley. It was purchased by our original company from John Rample & Sons and since then has been commonly known as Rample Camp.

Special Problems, Reports Filed

Remarks

We are trying to get financed to complete our mill as attached flow sheet.

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

We will lease on a royalty basis on a long term lease, or if necessary will give bond and lease.

Signed Gold Crown Mining Co.

Use additional sheets if necessary.

J. F. Shelley Pres.

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
OWNERS MINE REPORT

Date - December 3, 1940

Mine Gold Crown Mine

Mining District & County - Weaver District Location - 39 miles northwest of  
Mohave County Kingman, highway U.S. 93, then  
Former name - Utah Arizona Gold and Copper west 3 miles.  
Mining Company  
Owner - Gold Crown Mining Company Address - Office at property.  
P.O. address, Box 622, Kingman, Ariz.  
Operator - Gold Crown Mining Company Address - Box 622, Kingman, Arizona  
President - J. F. Shelley Gen. Mgr. - J. F. Shelley  
Mine Supt. Mill Supt.  
Principal Metals - Gold, Silver, Copper Men Employed - 1 to 4 men during past  
year.  
Production Rate Mill: Type & Cap. - See paper attached.  
Power: Amt. & Type - See paper attached.  
Operations: Present - 1 to 4 men developing ore bodies, doing  
assessment work, etc.

Operations: Planned - To get financed to get the necessary machinery to complete our  
mill and run it ourselves, or to lease under a royalty basis,  
or to lease under lease and bond on some fair and equitable  
basis.

Number Claims, Title, etc. - 62 claims, as per map attached. No patented claims.

Description: Topography & Geography - The property is typical of the River Range,  
Mohave County. Somewhat abrupt and high mountain ranges on  
the west, shading down into rolling hills through the center  
of the property.

Mine Workings: Amt. & Conditions - We have approximately 4000 ft. of development work  
done on our different claims, in drifts, tunnels, shafts,  
surface cuts, and up raises. This is all in good condition.



Geology & Mineralization The values in our ores comes in quartz, granite, calcite, schists, porphyry, diorite, hematite and quartzite.

Ore: Positive & Probable, Ore Dumps, Tailings - We have around 1500 tons of tailings from which a general assay taken averaged \$5 per ton. We figure we have around 400 tons of ore close to the mill, no mill level in dumps, that will run from \$5 to \$10 per ton. We have practically developed in our Pride of the West claim, around 2000 tons of ore ready to take out on mill level and above; 130 ft. stoping from tunnel level to the top of the hill where we have an open cut on vein of 120 ft. The track is now in from the mill in the tunnel to this ore body. We figure this ore will run from \$10 to \$20 per ton, and the vein is from one to three ft. wide. It will cost from \$3 to \$4 per ton to mine this ore and put it in the mill. We have caught this ore on the mill level by running a tunnel 200 ft. to this ore body. This same tunnel we have driven in the mountain 450 ft.. We caught the above vein at the 200 ft. point. We should run this 450 ft. tunnel another 50 ft. where we should crosscut another vein about the same value in the ore and also the width about the same as the vein we have already developed. However if we catch this vein as we anticipate we should have 250 ft. stoping on the vein from tunnel level to the top of the hill. Then, if we continue this tunnel about 100 ft. further we will catch a third vein that is considerably wider and the values should be approximately about the same, but very little work has been done on this vein. We have a large body of partially determined ore from 10 to 15 ft. wide from which assays show runs from \$4 to \$9 per ton. This ore can be mined and put in the mill for about 50 cents per ton, as it is near the mill. Our largest body of ore. known as the Monster claim or Monster group of claims lies about 13/4 miles from the mill and this vein is around 25 ft. wide. We have developed this for about 300 ft. up the hill and from numerous assays and a number of mill runs in quantity lots at different times, this ore should average \$7 per ton. We believe we have at least 10,000 tons of positive ore now developed in this claim. This ore can be mined and delivered at the mill for around \$1 per ton. We have at least 12 more different claims where we have ore facings and partially developed where milling ore can be obtained. We also have a number of high grade narrow veins. There has been taken out of our Golden Gate claim around \$75,000 in gold.

13 and 17. Mill: Type and Cap. No. 25. Mine, Mill Equipment and Flow-Sheet.

We have a good mill building of about 3000 square feet floor space, with ample fall from the crushing mill through different stages to the tailing pond, and the following machinery on hand which is in good condition:

- 1 - 25 HP Fairbanks Morse Oil engine.
- 1 - 90 HP Continental gas engine
- 5 - No. 15 Denver equipment flotation cells.
- 1 - 17 HP electric generator with switch board and transformer.
- 1 - 1 HP electric motor.
- 1 - 2 HP electric motor
- 1 - Barrel Amalgamator
- 1 - Pierce Amalgamator
- 1 - 30-ton fine ore bin.
- 1 - Ore screen
- 1 - Ore feeder
- 1 - 7 by 10 Allis Chalmers Crusher
- 6 - Cone settling tanks.
- 1 - 3-1/2 HP gas engine
- 1 - Centrifugal Pump

We have now on hand one 50-ton lane slow speed mill which should be taken out and the following machinery should be installed to make our mill complete for a 50-ton mill as outlined by tests made.

- 1 - Ball mill
- 1 - Classifier
- 1 - Duplex Mineral Jig.
- 1 - Corduroy Blanket Amalgamator
- 1 - Conditioner
- 1 - Concentrate filter and pump
- 1 - Ore crusher and 110 ft. conveyor.

In addition to the equipment listed above we have the following:

- 1 - 16,000 gal. cement reservoir on the hill above the mill which our water supply runs into by gravity.
- 2 - 8,000 gal. tanks; 1- 5,000 gal. tank; 2 - 500 gal. tanks;
- 1 - 10 by 10 Fairbanks Morse Compressor; 1 - 6 HP Fairbanks Morse Gas engine with hoist; 1 - hoist cable, 250 ft.; 2 - 1200 lbs. ore cars.; 1500 ft. ore car rails; 1 Ingersol Jack Hammer; 1 jackhammer stand; 1 tank water pressure for jackhammer.; 1 Sullivan Stoper; 1 lot jackhammer steel.; 1 lot stoper steel; 1 large air receiver; 1 small air receiver; 1 - 640 gal. truck water or oil tank; 2 wheelbarrows, shovels, picks, hammers and other small equipment. 3 miles 2-inch pipe line, 1 mile 1-inch pipe line, 1 mile 3/4 inch pipe line. Blacksmith shop and equipment, boarding house and 4 cabins.

We need the following equipment to complete our mill as per flow-sheet attached: 1 Jaw Crusher; 1 Conveyer; 1 Ore Screen; 1 Ball Mill; 1 Classifier; 1 Duplex Mineral Jig; 1 Corduroy Blanket Amalgamator (made on ground); 1 Conditioner; 1 Concentrate Filter; 2 small pumps; some extra belting, pipe and other connections.

Road Conditions, Route - Property is located 39 miles northwest of Kingman, highway U.S. 93 then west 3 miles to property over a good dirt road, and numerous roads from camp to the various claims. Or about 33 miles southeast on highway U.S. 93 from Boulder Dam then west to property.

Water Supply - Our water supply consists of 2 springs in Cottonwood canyon from where we have a pipe line which delivers the water by gravity to our reservoir on the hill above the mill. We have driven a tunnel in the mountain about 75 ft. where we have another small stream of water running by gravity through a pipe line to our reservoir above the mill. We also have 2 shafts now full of water which we can connect up with our pipe line by putting in another pipe line for about half a mile. These 2 shafts of water are on our Golden Gate property. We can also develop water on our Daisy claim. We believe we have sufficient water now developed to run a 50-ton mill and by further development and putting all our sources of water together we will have sufficient water to run a 100-ton mill.

Brief History

Special Problems, Reports Filed

Remarks

If property for sale: Price, terms and address to negotiate - See paragraph -  
Operations planned.

Address, Gold Crown Mining Co.  
P.O. Box 622  
Kingman, Arizona

SIGNED - Gold Crown Mining Company

J. F. Shelley, President.

OPINION: This property has all the ear-marks that it should develop into a large tonnage proposition, one that should supply a mill with a capacity of from 300 to 500 tons of ore per day. An economic method to treat the ore is now the problem, as the gold values in the ore cannot be recovered either by cyanidation or by amalgamation due to copper content in the ore. Any company taking over the mine should first spend a considerable sum in its development, following which thorough metallurgical tests should be made in order to determine correct milling methods to employ in order to recover, first, gold values, and, secondly, copper values in the ores. By sinking on the various veins, it is quite probable sulphide ores will be encountered, which would simplify milling operations, as values could then be recovered by flotation.

Elgin B. Holt  
Field Engineer.

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
OWNERS MINE REPORT

Date December 3, 1940

Mine Gold Crown Mine

Mining District & County - Weaver District Location - 39 miles northwest of  
Mohave County Kingman, highway U.S. 93, then  
Former name - Utah Arizona Gold and Copper west 3 miles.  
Mining Company  
Owner - Gold Crown Mining Company Address - Office at property.  
P.O. address, Box 622, Kingman, Ariz.  
Operator - Gold Crown Mining Company Address - Box 622, Kingman, Arizona  
President - J. F. Shelley Gen. Mgr. - J. F. Shelley  
Mine Supt. Mill Supt.  
Principal Metals - Gold, Silver, Copper Men Employed - 1 to 4 men during past  
year.  
Production Rate Mill: Type & Cap. - See paper attached.  
Power: Amt. & Type - See paper attached.  
Operations: Present - 1 to 4 men developing ore bodies, doing  
assessment work, etc.  
Operations: Planned - To get financed to get the necessary machinery to complete our  
mill and run it ourselves, or to lease under a royalty basis,  
or to lease under lease and bond on some fair and equitable  
basis.  
Number Claims, Title, etc. - 62 claims, as per map attached. No patented claims.  
Description: Topography & Geography - The property is typical of the River Range,  
Mohave County. Somewhat abrupt and high mountain ranges on  
the west, shading down into rolling hills through the center  
of the property.  
Mine Workings: Amt. & Conditions - We have approximately 4000 ft. of development work  
done on our different claims, in drifts, tunnels, shafts,  
surface cuts, and up raises. This is all in good condition.

Geology & Mineralization. The values in our ores comes in quartz, granite, calcite, schists, porphyry, diorite, hematite and quartzite.

Ore: Positive & Probable, Ore Dumps, Tailings - We have around 1500 tons of tailings from which a general assay taken averaged \$5 per ton. We figure we have around 400 tons of ore close to the mill, no mill level in dumps, that will run from \$5 to \$10 per ton. We have practically developed in our Pride of the West claim, around 2000 tons of ore ready to take out on mill level and above; 130 ft. stoping from tunnel level to the top of the hill where we have an opencut on vein of 120 ft. The track is now in from the mill in the tunnel to this ore body. We figure this ore will run from \$10 to \$20 per ton, and the vein is from one to three ft. wide. It will cost from \$3 to \$4 per ton to mine this ore and put it in the mill. We have caught this ore on the mill level by running a tunnel 200 ft. to this ore body. This same tunnel we have driven in the mountain 450 ft.. We caught the above vein at the 200 ft. point. We should run this 450 ft. tunnel another 50 ft. where we should crosscut another vein about the same value in the ore and also the width about the same as the vein we have already developed. However if we catch this vein as we anticipate we should have 250 ft. stoping on the vein from tunnel level to the top of the hill. Then, if we continue this tunnel about 100 ft. Further we will catch a third vein that is considerably wider and the values should be approximately about the same, but very little work has been done on this vein. We have a large body of partially determined ore from 10 to 15 ft. wide from which assays show runs from \$4 to \$9 per ton. This ore can be mined and put in the mill for about 50 cents per ton, as it is near the mill. Our largest body of ore, known as the Monster claim or Monster group of claims lies about 13/4 miles from the mill and this vein is around 25 ft. wide. We have developed this for about 300 ft. up the hill and from numerous assays and a number of mill runs in quantity lots at different times, this ore should average \$7 per ton. We believe we have at least 10,000 tons of positive ore now developed in this claim. This ore can be mined and delivered at the mill for around \$1 per ton. We have at least 12 more different claims where we have ore facings and partially developed where milling ore can be obtained. We also have a number of high grade narrow veins. There has been taken out of our Golden Gate claim around \$75,000 in gold.

15 and 17. Mill: Type and Cap. No. 25. Mine, Mill Equipment and Flow-Sheet.

We have a good mill building of about 3000 square feet floor space, with ample fall from the crushing mill through different stages to the tailing pond, and the following machinery on hand which is in good condition:

- 1 - 25 HP Fairbanks Morse Oil engine.
- 1 - 90 HP Continental gas engine
- 5 - No. 15 Denver equipment flotation cells.
- 1 - 17 HP electric generator with switch board and transformer.
- 1 - 1 HP electric motor.
- 1 - 2 HP electric motor
- 1 - Barrel Amalgamator
- 1 - Pierce Amalgamator
- 1 - 30-ton fine ore bin.
- 1 - Ore screen
- 1 - Ore feeder
- 1 - 7 by 10 Allis Chalmers Crusher
- 6 - Cone settling tanks.
- 1 - 3-1/2 HP gas engine
- 1 - Centrifugal Pump

We have now on hand one 50-ton lane slow speed mill which should be taken out and the following machinery should be installed to make our mill complete for a 50-ton mill as outlined by tests made.

- |                         |                      |                                       |
|-------------------------|----------------------|---------------------------------------|
| 1 - Ball mill           | 1 - Corduroy Blanket | 1 - Concentrate filter and pump       |
| 1 - Classifier          | Amalgamator          |                                       |
| 1 - Duplex Mineral Jig. | 1 - Conditioner      | 1 - Ore crusher and 110 ft. conveyor. |

DEPARTMENT OF MINERAL RESOURCES  
FIELD ENGINEERS REPORT

Mine Gold Crown Date January 30, 1940  
District Weaver, Mohave Co. Engineer Elgin B. Holt  
P.O. Box 288  
Kingman, Arizona

SYNOPSIS REPORT

OWNER: Gold Crown Mining Company, J. F. Shelley, President,  
P.O. Box 622, Kingman, Arizona

METALS: Gold and copper; gold predominating.

LOCATION: Property reached from Kingman by following highway 93 thirty-nine miles northeast toward Boulder Dam; thence 5 miles westerly by level dirt road to mine.

HISTORY: The various veins of property have been worked superficially from time to time for the last 30 or 40 years by various owners and some ore has been shipped in small quantities. A 60-ton mill was erected at property several years ago; but failed to recover gold values economically due to copper content in the ores. This mill is still intact. It will be discussed more fully further along in this report.

GEOLOGY: The country rock for several miles surrounding the property consists mainly of schist, with local areas of granite, grano-diorite and gneiss. Huge porphyry dikes and smaller veins traverse property; both carrying gold and copper.

VEINS: The largest vein, or vein-dike, on property is located on the Monster claim, situated 1.75 miles south of mill on level to rolling mesa ground. Here is found a huge ore shoot about 50 ft. in width and traceable for two or three hundred ft. on the surface. It is developed by several shallow opencuts to a depth of 10 to 20 ft. only. Gangue consists of decomposed iron-stained quartz and "porphyry", with bunches of copper silicate and carbonate here and there in the mass. Mr. Shelley informed me that a 25-ft. section of this vein, next to the hanging wall thereof, averages from \$5 to \$7 gold per ton plus 0.6% copper. Values or more exactly gold values cannot be recovered by cyanidation and only partly by amalgamation, due to the copper content in the ore; but Mr. Shelley further stated he had tests run some time ago by the Denver Equipment Co. indicating that gold values can be recovered by a combination of flotation, tabling and amalgamation.

Another important vein is the "Big Vein", on the Pride of the West claim; the same being 40 ft. in width and dips into the mountain at an angle of 20°. This vein has been stripped along the surface for sampling at intervals and averages from \$4.47 to \$9.45 gold, per Mr. Shelley.

The Pride of the West Vein from 1 to 3 ft. wide, is developed by an opencut on vein for 120 ft. and by a crosscut tunnel 650 ft. in length which intersects vein at a depth of 130 ft. with 60 ft. of drifting on vein at tunnel and mill ore bin level. In the said 60 ft. of drifting 18 tons of ore were removed and milled, giving an average of \$17 gold per ton and 1.5% copper. Character of ore is oxidized material, as is the case with all ores so far developed in mine, the copper, as stated occurring in the form of silicate and carbonate.

Two other veins further up the hill from the Pride of the West vein could also be opened up for stoping by the crosscut tunnel mentioned, as follows:

The first one of these veins could be out by extending said tunnel 50 ft. further. This vein is also from 1 to 3 ft. wide. The next one of these veins, which is five ft. wide can be intersected by extending the crosscut tunnel 150 ft. beyond the first vein. This data was also furnished me by Mr. Shelley at the time I looked the property over.

**WATER SUPPLY:** A 3.5 mile 2-inch gravity pipe line leads from springs and reservoir in Cottonwood canyon to a 16,000 gal. cement reservoir just above mill supplying 10,000 gal. of water in 24 hours during dry season up to 20,000 gal. during wet periods.

Also a 1.5 mile 1-inch gravity pipe line brings water to the mill reservoir mentioned from the Omega claim, supplying about 1 gal. per minute.

One other spring located one mile above mill, if developed should also provide an equal amount of water now obtained from the Cottonwood canyon spring, above described.

Again an addition supply of water estimated at 8,000 gal. in 24 hours, could be obtained from 2 shafts on the Golden Gate claim, 1.5 miles above mill.

In short, all in all, sufficient water could be developed to supply a 100-ton mill for 24 hours during the year around per Mr. Shelley.

**MILL:** Mill equipment and machinery on hand:

2 - 8000 gal. tanks	5 - settling tanks
1 - 5000 gal. tank	1 - 6 HP Fairbanks Morse gas engine, hoist
1 - 5000 gal. tank	1 - 90 HP Mitchell gas engine
2 - 500 gal. tanks	1 - hoist cable, 250 ft.
1 - screen	1 - 3 HP Sears engine
1 - 7" by 10" jaw crusher	2 - 1200 lbs. ore cars.
1 - ore feeder	1 - Ingersoll Rand jackhammer
5 - No. 15 Denver Equipment Co. flotation cells	1 - jackhammer stand
1 - 17 HP generating plant with engine	1 - tank water pressure for above
2 - motors, 1 and 2 HP each	1 - lot Sullivan stoper
1 - Bierce amalgamator	1 - lot jackhammer steel
1 - 25 HP Fairbanks Morse gas engine	1 - lot stoper steel
1 - 10 by 10 Fairbanks Morse compressor	1 - large air receiver
1 - Centrifugal pump	1 - small air receiver

Equipment and machinery wanted to modernize mill, per Mr. Shelley:

- 1 - 5' by 4' ball mill
- 1 - Dorr classifier
- 1 - 12 by 18 mineral jig, Denver Equipment Co.
- 1 - Amalgamation unit, consisting of barrel amalgamator, with amalgam separator combination Denver Equipment Co. make; also 1 corduroy amalgamator
- 1 - Conditioner; 1 filter for concentrates; 2 small motors; 1 small centrifugal pump, belting and sundry items freight, installation costs, etc.

OPINION: This property has all the ear-marks that it should develop into a large tonnage proposition, one that should supply a mill with a capacity of from 300 to 500 tons of ore per day. An economic method to treat the ore is now the problem, as the gold values in the ore cannot be recovered either by cyanidation or by amalgamation due to copper content in the ore. Any company taking over the mine should first spend a considerable sum in its development, following which thorough metallurgical tests should be made in order to determine correct milling methods to employ in order to recover, first, gold values, and, secondly, copper values in the ores. By sinking on the various veins, it is quite probable sulphide ores will be encountered, which would simplify milling operations, as values could then be recovered by flotation.

Elgin B. Holt  
Field Engineer.



DEPARTMENT OF MINERAL RESOURCES  
FIELD ENGINEERS REPORT

Mine Gold Crown Date January 30, 1940  
District Weaver, Mohave Co. Engineer Elgin B. Holt  
P.O. Box 288  
Kingman, Arizona

SYNOPSIS REPORT

OWNER: Gold Crown Mining Company, J. F. Shelley, President,  
P.O. Box 622, Kingman, Arizona

METALS: Gold and copper; gold predominating.

LOCATION: Property reached from Kingman by following highway 93 thirty-nine miles northeast toward Boulder Dam; thence 5 miles westerly by level dirt road to mine.

HISTORY: The various veins of property have been worked superficially from time to time for the last 30 or 40 years by various owners and some ore has been shipped in small quantities. A 60-ton mill was erected at property several years ago; but failed to recover gold values economically due to copper content in the ores. This mill is still intact. It will be discussed more fully further along in this report.

GEOLOGY: The country rock for several miles surrounding the property consists mainly of schist, with local areas of granite, grano-diorite and gneiss. Huge porphyry dikes and smaller veins traverse property; both carrying gold and copper.

VEINS: The largest vein, or vein-dike, on property is located on the Monster claim, situated 1.75 miles south of mill on level to rolling mesa ground. Here is found a huge ore shoot about 50 ft. in width and traceable for two or three hundred ft. on the surface. It is developed by several shallow opencuts to a depth of 10 to 20 ft. only. Gangue consists of decomposed iron-stained quartz and "porphyry", with bunches of copper silicate and carbonate here and there in the mass. Mr. Shelley informed me that a 25-ft. section of this vein, next to the hanging wall thereof, averages from \$5 to \$7 gold per ton plus 0.6% copper. Values or more exactly gold values cannot be recovered by cyanidation and only partly by amalgamation, due to the copper content in the ore; but Mr. Shelley further stated he had tests run some time ago by the Denver Equipment Co. indicating that gold values can be recovered by a combination of flotation, tabling and amalgamation.

Another important vein is the "Big Vein", on the Pride of the West claim; the same being 40 ft. in width and dips into the mountain at an angle of 20°. This vein has been stripped along the surface for sampling at intervals and averages from \$4.47 to \$9.45 gold, per Mr. Shelley.

The Pride of the West Vein from 1 to 3 ft. wide, is developed by an opencut on vein for 120 ft. and by a crosscut tunnel 650 ft. in length which intersects vein at a depth of 130 ft. with 60 ft. of drifting on vein at tunnel and mill ore bin level. In the said 60 ft. of drifting 18 tons of ore were removed and milled, giving an average of \$17 gold per ton and 1.5% copper. Character of ore is oxidized material, as is the case with all ores so far developed in mine, the copper, as stated occurring in the form of silicate and carbonate.

Two other veins further up the hill from the Pride of the West vein could also be opened up for stoping by the crosscut tunnel mentioned, as follows:

The first one of these veins could be out by extending said tunnel 50 ft. further. This vein is also from 1 to 3 ft. wide. The next one of these veins, which is five ft. wide can be intersected by extending the crosscut tunnel 150 ft. beyond the first vein. This data was also furnished me by Mr. Shelley at the time I looked the property over.

**WATER SUPPLY:** A 3.5 mile 2-inch gravity pipe line leads from springs and reservoir in Cottonwood canyon to a 16,000 gal. cement reservoir just above mill supplying 10,000 gal. of water in 24 hours during dry season up to 20,000 gal. during wet periods.

Also a 1.5 mile 1-inch gravity pipe line brings water to the mill reservoir mentioned from the Omega claim, supplying about 1 gal. per minute.

One other spring located one mile above mill, if developed should also provide an equal amount of water now obtained from the Cottonwood canyon spring, above described.

Again an addition supply of water estimated at 8,000 gal. in 24 hours, could be obtained from 2 shafts on the Golden Gate claim, 1.5 miles above mill.

In short, all in all, sufficient water could be developed to supply a 100-ton mill for 24 hours during the year around per Mr. Shelley.

**MILL:** Mill equipment and machinery on hand:

2 - 8000 gal. tanks	5 - settling tanks
1 - 5000 gal. tank	1 - 6 HP Fairbanks Morse gas engine, hoist
1 - 5000 gal. tank	1 - 90 HP Mitchell gas engine
2 - 500 gal. tanks	1 - hoist cable, 250 ft.
1 - screen	1 - 3 HP Sears engine
1 - 7" by 10" jaw crusher	2 - 1200 lbs. ore cars.
1 - ore feeder	1 - Ingersoll Rand jackhammer
5 - No. 15 Denver Equipment Co. flotation cells	1 - jackhammer stand
1 - 17 HP generating plant with engine	1 - tank water pressure for above
2 - motors, 1 and 2 HP each	1 - lot jackhammer steel
1 - Pierce amalgamator	1 - lot stoper steel
1 - 25 HP Fairbanks Morse gas engine	1 - large air receiver
1 - 10 by 10 Fairbanks Morse compressor	1 - small air receiver
1 - Centrifugal pump	

Equipment and machinery wanted to modernize mill, per Mr. Shelley:

- 1 - 5' by 4' ball mill
- 1 - Dorr classifier
- 1 - 12 by 18 mineral jig, Denver Equipment Co.
- 1 - Amalgamation unit, consisting of barrel amalgamator, with amalgam separator combination Denver Equipment Co. make; also 1 corduroy amalgamator
- 1 - Conditioner; 1 filter for concentrates; 2 small motors; 1 small centrifugal pump, belting and sundry items freight, installation costs, etc.

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
OWNERS MINE REPORT

Date December 3, 1940

Mine Gold Crown Mine

Mining District & County - Weaver District  
Mohave County

Location - 39 miles northwest of  
Kingman, highway U.S. 93, then  
west 3 miles.

Former name - Utah Arizona Gold and Copper  
Mining Company

Owner - Gold Crown Mining Company

Address - Office at property.  
P.O. address, Box 622, Kingman, Ariz.

Operator - Gold Crown Mining Company

Address - Box 622, Kingman, Arizona

President - J. F. Shelley

Gen. Mgr. - J. F. Shelley

Mine Supt.

Mill Supt.

Principal Metals - Gold, Silver, Copper

Men Employed - 1 to 4 men during past  
year.

Production Rate

Mill: Type & Cap. - See paper attached.

Power: Amt. & Type - See paper attached.

Operations: Present - 1 to 4 men developing ore bodies, doing  
assessment work, etc.

Operations: Planned - To get financed to get the necessary machinery to complete our  
mill and run it ourselves, or to lease under a royalty basis,  
or to lease under lease and bond on some fair and equitable  
basis.

Number Claims, Title, etc. - 62 claims, as per map attached. No patented claims.

Description: Topography & Geography - The property is typical of the River Range,  
Mohave County. Somewhat abrupt and high mountain ranges on  
the west, shading down into rolling hills through the center  
of the property.

Mine Workings: Amt. & Conditions - We have approximately 4000 ft. of development work  
done on our different claims, in drifts, tunnels, shafts,  
surface cuts, and up raises. This is all in good condition.

Geology & Mineralization The values in our ores comes in quartz, granite, calcite, schists, porphyry, diorite, hematite and quartzite.

Ore: Positive & Probable, Ore Dumps, Tailings - We have around 1500 tons of tailings from which a general assay taken averaged \$5 per ton. We figure we have around 400 tons of ore close to the mill, no mill level in dumps, that will run from \$5 to \$10 per ton. We have practically developed in our Pride of the West claim, around 2000 tons of ore ready to take out on mill level and above; 130 ft. stoping from tunnel level to the top of the hill where we have an open cut on vein of 120 ft. The track is now in from the mill in the tunnel to this ore body. We figure this ore will run from \$10 to \$20 per ton, and the vein is from one to three ft. wide. It will cost from \$5 to \$4 per ton to mine this ore and put it in the mill. We have caught this ore on the mill level by running a tunnel 200 ft. to this ore body. This same tunnel we have driven in the mountain 450 ft. We caught the above vein at the 200 ft. point. We should run this 450 ft. tunnel another 50 ft. where we should crosscut another vein about the same value in the ore and also the width about the same as the vein we have already developed. However if we catch this vein as we anticipate we should have 250 ft. stoping on the vein from tunnel level to the top of the hill. Then, if we continue this tunnel about 100 ft. further we will catch a third vein that is considerably wider and the values should be approximately about the same, but very little work has been done on this vein. We have a large body of partially determined ore from 10 to 15 ft. wide from which assays show runs from \$4 to \$9 per ton. This ore can be mined and put in the mill for about 50 cents per ton, as it is near the mill. Our largest body of ore known as the Monster claim or Monster group of claims lies about 13/4 miles from the mill and this vein is around 25 ft. wide. We have developed this for about 300 ft. up the hill and from numerous assays and a number of mill runs in quantity lots at different times, this ore should average \$7 per ton. We believe we have at least 10,000 tons of positive ore now developed in this claim. This ore can be mined and delivered at the mill for around \$1 per ton. We have at least 12 more different claims where we have ore facings and partially developed where milling ore can be obtained. We also have a number of high grade narrow veins. There has been taken out of our Golden Gate claim around \$75,000 in gold.

13 and 17. Mill: Type and Cap. No. 25. Mine, Mill Equipment and Flow-Sheet.

We have a good mill building of about 3000 square feet floor space, with ample fall from the crushing mill through different stages to the tailing pond, and the following machinery on hand which is in good condition:

- 1 - 25 HP Fairbanks Morse Oil engine.
- 1 - 90 HP Continental gas engine
- 5 - No. 15 Denver equipment flotation cells.
- 1 - 17 HP electric generator with switch board and transformer.
- 1 - 1 HP electric motor.
- 1 - 2 HP electric motor
- 1 - Barrel Amalgamator
- 1 - Pierce Amalgamator
- 1 - 30-ton fine ore bin.
- 1 - Ore screen
- 1 - Ore feeder
- 1 - 7 by 10 Allis Chalmers Crusher
- 6 - Cone settling tanks.
- 1 - 3-1/2 HP gas engine
- 1 - Centrifugal Pump

We have now on hand one 50-ton lane slow speed mill which should be taken out and the following machinery should be installed to make our mill complete for a 50-ton mill as outlined by tests made.

- |                         |                      |                                       |
|-------------------------|----------------------|---------------------------------------|
| 1 - Ball mill           | 1 - Corduroy Blanket | 1 - Concentrate filter and pump       |
| 1 - Classifier          | Amalgamator          |                                       |
| 1 - Duplex Mineral Jig. | 1 - Conditioner      | 1 - Ore crusher and 110 ft. conveyor. |

DEPARTMENT OF MINERAL RESOURCES  
FIELD ENGINEERS REPORT

Mine Gold Crown Date January 30, 1940  
District Weaver, Mohave Co. Engineer Elgin B. Holt  
P.O. Box 288  
Kingman, Arizona

SYNOPSIS REPORT

OWNER: Gold Crown Mining Company, J. F. Shelley, President,  
P.O. Box 622, Kingman, Arizona

METALS: Gold and copper; gold predominating.

LOCATION: Property reached from Kingman by following highway 93 thirty-nine miles northeast toward Boulder Dam; thence 5 miles westerly by level dirt road to mine.

HISTORY: The various veins of property have been worked superficially from time to time for the last 30 or 40 years by various owners and some ore has been shipped in small quantities. A 60-ton mill was erected at property several years ago; but failed to recover gold values economically due to copper content in the ores. This mill is still intact. It will be discussed more fully further along in this report.

GEOLOGY: The country rock for several miles surrounding the property consists mainly of schist, with local areas of granite, grano-diorite and gneiss. Huge porphyry dikes and smaller veins traverse property; both carrying gold and copper.

VEINS: The largest vein, or vein-dike, on property is located on the Monster claim, situated 1.75 miles south of mill on level to rolling mesa ground. Here is found a huge ore shoot about 50 ft. in width and traceable for two or three hundred ft. on the surface. It is developed by several shallow opencuts to a depth of 10 to 20 ft. only. Gangue consists of decomposed iron-stained quartz and "porphyry", with bunches of copper silicate and carbonate here and there in the mass. Mr. Shelley informed me that a 25-ft. section of this vein, next to the hanging wall thereof, averages from \$5 to \$7 gold per ton plus 0.6% copper. Values or more exactly gold values cannot be recovered by cyanidation and only partly by amalgamation, due to the copper content in the ore; but Mr. Shelley further stated he had tests run some time ago by the Denver Equipment Co. indicating that gold values can be recovered by a combination of flotation, tabling and amalgamation.

Another important vein is the "Big Vein", on the Pride of the West claim; the same being 40 ft. in width and dips into the mountain at an angle of 20°. This vein has been stripped along the surface for sampling at intervals and averages from \$4.47 to \$9.45 gold, per Mr. Shelley.

The Pride of the West Vein from 1 to 3 ft. wide, is developed by an opencut on vein for 120 ft. and by a crosscut tunnel 650 ft. in length which intersects vein at a depth of 130 ft. with 60 ft. of drifting on vein at tunnel and mill ore bin level. In the said 60 ft. of drifting 18 tons of ore were removed and milled, giving an average of \$17 gold per ton and 1.5% copper. Character of ore is oxidized material, as is the case with all ores so far developed in mine, the copper, as stated occurring in the form of silicate and carbonate.

Two other veins further up the hill from the Pride of the West vein could also be opened up for stoping by the crosscut tunnel mentioned, as follows:

The first one of these veins could be out by extending said tunnel 50 ft. further. This vein is also from 1 to 3 ft. wide. The next one of these veins, which is five ft. wide can be intersected by extending the crosscut tunnel 150 ft. beyond the first vein. This data was also furnished me by Mr. Shelley at the time I looked the property over.

**WATER SUPPLY:** A 3.5 mile 2-inch gravity pipe line leads from springs and reservoir in Cottonwood canyon to a 16,000 gal. cement reservoir just above mill supplying 10,000 gal. of water in 24 hours during dry season up to 20,000 gal. during wet periods.

Also a 1.5 mile 1-inch gravity pipe line brings water to the mill reservoir mentioned from the Omega claim, supplying about 1 gal. per minute.

One other spring located one mile above mill, if developed should also provide an equal amount of water now obtained from the Cottonwood canyon spring, above described.

Again an addition supply of water estimated at 8,000 gal. in 24 hours, could be obtained from 2 shafts on the Golden Gate claim, 1.5 miles above mill.

In short, all in all, sufficient water could be developed to supply a 100-ton mill for 24 hours during the year around per Mr. Shelley.

**MILL:** Mill equipment and machinery on hand:

2 - 8000 gal. tanks	5 - settling tanks
1 - 5000 gal. tank	1 - 6 HP Fairbanks Morse gas engine, hoist
1 - 5000 gal. tank	1 - 90 HP Mitchell gas engine
2 - 500 gal. tanks	1 - hoist cable, 250 ft.
1 - screen	1 - 3 HP Sears engine
1 - 7" by 10" jaw crusher	2 - 1200 lbs. ore cars.
1 - ore feeder	1 - Ingersoll Rand jackhammer
5 - No. 15 Denver Equipment Co. flotation cells	1 - jackhammer stand
1 - 17 HP generating plant with engine	1 - tank water pressure for above
2 - motors, 1 and 2 HP each	1 - Sullivan stoper
1 - Pierce amalgamator	1 - lot jackhammer steel
1 - 25 HP Fairbanks Morse gas engine	1 - lot stoper steel
1 - 10 by 10 Fairbanks Morse compressor	1 - large air receiver
1 - Centrifugal pump	1 - small air receiver

Equipment and machinery wanted to modernize mill, per Mr. Shelley:

- 1 - 5' by 4' ball mill
- 1 - Dorr classifier
- 1 - 12 by 18 mineral jig, Denver Equipment Co.
- 1 - Amalgamation unit, consisting of barrel amalgamator, with amalgam separator combination Denver Equipment Co. make; also 1 corduroy amalgamator
- 1 - Conditioner; 1 filter for concentrates; 2 small motors; 1 small centrifugal pump, belting and sundry items freight, installation costs, etc.

OPINION: This property has all the ear-marks that it should develop into a large tonnage proposition, one that should supply a mill with a capacity of from 300 to 500 tons of ore per day. An economic method to treat the ore is now the problem, as the gold values in the ore cannot be recovered either by cyanidation or by amalgamation due to copper content in the ore. Any company taking over the mine should first spend a considerable sum in its development, following which thorough metallurgical tests should be made in order to determine correct milling methods to employ in order to recover, first, gold values, and, secondly, copper values in the ores. By sinking on the various veins, it is quite probable sulphide ores will be encountered, which would simplify milling operations, as values could then be recovered by flotation.

Elgin B. Holt  
Field Engineer.

We need the following equipment to complete our mill as per flow-sheet attached,

- 1 Jaw Crusher
  - 1 Conveyor
  - 1 Ore Screen
  - 1 Ball Mill
  - 1 Classifier
  - 1 Duplex Mineral Jig
  - 1 Corduroy Blanket Amalgamator ( made on ground )
  - 1 Conditioner
  - 1 Concentrate Filter
  - 2 small pumps
- some extra belting, pipe and other connections.

Gold Crown Mine



DEPARTMENT OF MINERAL RESOURCES

FIELD ENGINEERS REPORT

Mine GOLD CROWN

Date January 30, 1940

District Weaver, Mohave Co.

Engineer Elgin B. Holt,  
P. O. Box 288,  
Kingman, Ariz.

SYNOPSIS REPORT

- OWNER:** Gold Crown Mining Company, J. F. Shelley, President,  
P. O. Box 622, Kingman, Arizona.
- METALS:** Gold and copper; gold predominating.
- LOCATION:** Property reached from Kingman by following Highway 93  
39 miles northwest toward Boulder Dam; thence 5 miles  
westerly by level dirt road to mine.
- HISTORY:** The various veins of property have been worked super-  
ficially from time to time for the last 30 or 40 years by  
various owners and some ore has been shipped in small  
quantities. A 60-ton mill was erected at property several  
years ago; but failed to recover gold values economically  
due to copper content in the ores. This mill is still  
intact. It will be discussed more fully further along  
in this report.
- GEOLOGY:** The country rock for several miles surrounding the prop-  
erty consists mainly of schist, with local areas of gran-  
ite, grano-diorite and gneiss. Huge porphyry dikes and  
smaller veins traverse property; both carrying gold and  
copper.
- VEINS:** The largest vein, or vein-dike, on property is located on  
the Monster claim, situated 1.75 miles south of mill on  
level to rolling mesa ground. Here is found a huge ore  
shoot about 50 feet in width and traceable for two or  
three hundred feet on the surface. It is developed by  
several shallow open cuts to a depth of 10 to 20 feet  
only. Gangue consists of decomposed iron-stained quartz  
and "porphyry", with bunches of copper silicate and carb-  
onate here and there in the mass. Mr. Shelley informed  
me that a 25-foot section of this vein, next to the hang-  
ing wall thereof, averages from \$6.00 to \$7.00 gold per  
ton, plus 0.6% copper. Values, or more exactly gold val-  
ues cannot be recovered by cyanidation and only partly by  
amalgamation, due to the copper content in the ore; but  
Mr. Shelley further stated he had tests run some time ago  
by the Denver Equipment Company, indicating that gold val-  
ues can be recovered by a combination of flotation, tabling  
and amalgamation.

Another important vein is the "Big Vein", on the Pride of  
the West claim; the same being 40 feet in width, and dips  
into the mountain at an angle of 20 degrees. This vein has  
been stripped along the surface for sampling at intervals  
and averages from \$4.47 to \$9.45 gold, per Mr. Shelley.

**VEINS (Continued):** The Pride of the West Vein, from 1 to 3 feet wide, is developed by an open cut on vein for 120 feet and by a cross-cut tunnel 650 feet in length which intersects vein at a depth of 130 feet with 60 feet of drifting on vein at tunnel and mill ore bin level. In the said 60 feet of drifting, 18 tons of ore were removed and milled, giving an average of \$17.00 gold per ton and 1.5% copper. Character of ore is oxidized material, as is the case with all ores so far developed in mine, the copper, as stated occurring in the form of silicate and carbonate.

Two other veins further up the hill from the Pride of the West Vein could also be opened up for stoping by the cross-cut tunnel mentioned, as follows:

The first one of these veins could be out by extending said tunnel 50 feet further. This vein is also from 1 to 3 ft. wide. The next one of these veins, which is five feet wide can be intersected by extending the cross-cut tunnel 150 feet beyond the first vein. This data was also furnished me by Mr. Shelley, at the time I looked the property over.

**WATER SUPPLY:**

A 3.5 mile 2-inch gravity pipe line leads from spring and reservoir in Cottonwood Canyon to a 16,000 gallon cement reservoir just above mill, supplying 10,000 gallons of water in 24 hours during dry season up to 20,000 gallons during wet periods.

Also a 1.5 mile 1-inch gravity pipe line brings water to the mill reservoir mentioned from the Omega claim, supplying about one gallon per minute.

One other spring located one mile above mill, if developed should also provide an equal amount of water now obtained from the Cottonwood Canyon spring, above described.

Again, an addition supply of water, estimated at 8,000 gallons in 24 hours, could be obtained from 2 shafts on the Golden Gate claim, 1.5 miles above mill.

In short, all in all, sufficient water could be developed to supply a 100-ton mill for 24 hours during the year round, per Mr. Shelley.

**MILL:**

Mill equipment and machinery on hand:

- 2 8,000 gallon tanks
- 1 5,000 " tank
- 1 5,000 " "
- 2 500 " tanks
- 1 Screen
- 1 7" by 10" jaw crusher
- 1 Ore feeder
- 5 No. 15 Denver Equipment Company flotation calls
- 1 17-HP generating plant with engine
- 2 Motors, 1 and 2 HP each,
- 1 Pierce amalgamator
- 1 25-HP Fairbanks Morse gas engine
- 1 10 by 10 " " compressor

MILL (Continued):

- 1 Centrifugal pump
- 5 Settling tanks
- 1 90-HP Mitchell gas engine
- 1 6 HP Fairbanks Morse gas engine hoist with above
- 1 Hoist cable, 250-ft.
- 1 3-HP Sears engine
- 2 1,200 lbs. ore cars
- 1 Ingersoll Rand jack hammer
- 1 Jack hammer stand
- 1 Tank water pressure for above
- 1 Sullivan stoper
- 1 Lot Jack Hammer steel
- 1 Lot stoper steel
- 1 Large air receiver
- 1 Small air receiver

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Equipment & Machinery wanted to modernize mill, per Mr. Shelley:

- 1 5' by 4' bell mill
- 1 Dorr classifier
- 1 18 by 18 mineral jig, Denver Equipment Co.
- 1 Amalgamation unit, consisting of barrel amalgamator, with amalgam separator combination Denver Equipment Co. make; also 1 corduroy amalgamator
- 1 Conditioner
- 1 Filter for concentrates
- 2 small motors
- 1 Small centrifugal pump, belting and sundry items freight, installation costs, etc.

OPINION:

This property has all the earmarks that it should develop into a large tonnage proposition, one that should supply a mill with a capacity of from 300 to 500 tons of ore per day. An economic method to treat the ore is now the problem, as the gold values in the ore cannot be recovered either by cyanidation or by amalgamation due to copper content in the ore. Any company taking over the mine should first spend a considerable sum in its development, following which thorough metallurgical tests should be made in order to determine correct milling methods to employ in order to recover, first, gold values, and, secondly, copper values in the ores. By sinking on the various veins, it is quite probable sulphide ores will be encountered, which would simplify milling operations, as values could then be recovered by flotation.

E. B. Holt  
Elgin B. Holt  
Field Engineer

- MILL (Continued):
- 1 Centrifugal pump,
  - 5 Settling tanks,
  - 1 90-H. P. Mitchell gas engine,
  - 1 6-H. P. Fairbanks Morse gas engine,  
hoist with above,
  - 1 Hoist cable, 250-ft.,
  - 1 3-H. P. Sears engine,
  - 2 1,200 lbs. ore cars,
  - 1 Ingersoll Rand jack hammer,
  - 1 Jack hammer stand,
  - 1 Tank water pressure for above,
  - 1 Sullivan stoper,
  - 1 Lot Jack Hammer steel,
  - 1 Lot stoper steel,
  - 1 Large air receiver,
  - 1 Small air receiver.

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Equipment & Machinery wanted to modernize  
mill, per Mr. Shelley:

- 1 5' by 4' ball mill,
- 1 Dorr classifier,
- 1 12 by 18 mineral jig, Denver Equipment Co.,
- 1 Amalgamation unit, consisting of barrel am-  
algamator, with amalgam separator combination,  
Denver Equipment Co. make; also 1 corduroy amalgamator,
- 1 Conditioner,
- 1 Filter for concentrates,
- 2 small motors,
- 1 Small centrifugal pump, belting and sundry items,  
freight, installation costs, etc.

**OPINION:**

This property has all the ear-marks that it should develop into a large tonnage proposition, one that should supply a mill with a capacity of from 300 to 500 tons of ore per day. An economic method to treat the ore is now the problem, as the gold values in the ore cannot be recovered either by cyanidation or by amalgamation due to copper content in the ore. Any company taking over the mine should first spend a considerable sum in its development, following which thorough metallurgical tests should be made in order to determine correct milling methods to employ in order to recover, first, gold values, and, secondly, copper values in the ores. By sinking on the various veins, it is quite probable sulphide ores will be encountered, which would simplify milling operations, as values could then be recovered by flotation.

*E. B. Holt*  
Egin B. Holt,  
Field Engineer.

## Ore Bodies.

We have around 1500 tons of tailings from which a general assay taken averaged \$5.00 per ton.

We figure we have around 400 tons of ore close to the mill, on mill level in dumps, that will run from \$5.00 to \$10.00 per ton.

We have, practically developed in our Pride of the West claim, around 2000 tons of ore ready to take out on mill level and above; 130 feet stopping from tunnel level to the top of the hill where we have an open cut on vein of 120 feet. The track is now in from the mill, in the tunnel, to this ore body. We figure this ore will run from \$10.00 to \$20.00 per ton, and the vein is from one to three feet wide. It will cost from \$3.00 to \$4.00 per ton to mine this ore and put it in the mill. We have caught this ore on the mill level by running a tunnel 200 feet to this ore body. This same tunnel we have driven in the mountain 450 feet. We caught the above vein at the 200 foot point. We should run this 450 foot tunnel another 50 feet where we should cross cut another vein about the same value in the ore and also the width about the same as the vein we have already developed. However, if we catch this vein as we anticipate we should have 250 feet stopping on the vein from tunnel level to the top of the hill. Then, if we continue this tunnel about 100 feet further we will catch a third vein that is considerably wider and the values should be approximately about the same, but very little work has been done on this vein.

We have a large body of partially determined ore from 10 to 15 feet wide from which assays show runs from \$4.00 to \$9.00 per ton. This ore can be mined and put in the mill for about fifty cents per ton, as it is near the mill.

Our largest body of ore, known as the Monster claim or Monster Group of Claims lies about  $1\frac{1}{2}$  miles from the mill and this vein is around 25 feet wide. We have developed this for about 300 feet up the hill and from numerous assays and a number of mill runs in quantity lots at different times, this ore should average \$7.00 per ton. We believe we have at least 10,000 tons of positive ore now developed in this claim. This ore can be mined and ~~milled~~ delivered at the mill for around \$1.00 per ton.

We have at least 12 more different claims where we have ore facings and partially developed where milling ore can be obtained.

We also have a number of high grade narrow veins. There has already been taken out of our Golden Gate claim around \$75,000.00 in gold.

## No. 27 Water Supply

Our water supply consists of two springs in Cottonwood Canyon from where we have a pipe line which delivers the water by gravity to our reservoir on the hill above the mill. We have driven a tunnel in the mountain about 75 feet where we have another small stream of water running by gravity through a pipe line to our reservoir above the mill. We also have two shafts now full of water, which we can connect up with our pipe line by putting in another pipe line for about half a mile. These two shafts of water are on our Golden Gate property. We can also develop water on our Daisy claim.

We believe we have sufficient water now developed to run a 50 ton mill and by further development and putting all our sources of water together we will have sufficient water to run a 100 ton mill.

We have a good mill building of about 3000 square feet floor space, with ample fall from the crushing mill through different stages to the tailing pond, and the following machinery on hand which is in good condition,

- 1 25 H P Fairbanks Morse Oil Engine
- 1 90 H P Continental Gas Engine
- 5 No 15 Denver Equipment Flotation Cells
- 1 17 H P Electric Generator with switch board & transformer
- 1 1 H P Electric Motor
- 1 2 H P Electric Motor
- 1 Barrel Amalgamator
- 1 Pierce "
- 1 30 ton fine ore bin
- 1 Ore Screen
- 1 Ore Feeder
- 1 7 by 10 Allis Chalmers Crusher
- 6 Cone Settling Tanks
- 1 3½ H P Gas Engine
- 1 Centrifugal Pump

We have now on hand one 50 ton Lane slow speed mill, which should be taken out and the following machinery should be installed to make our mill complete for a 50 ton mill as outlined by tests made,

- 1 Ball mill
- 1 Classifier
- 1 Duplex Mineral Jigg
- 1 Corduroy Blanket
- 1 Amalgamator
- 1 Conditioner
- 1 Concentrate Filter and Pump
- 1 Ore Crusher & 110 ft conveyer

In addition to the equipment listed above we have the following,

- 1 16000 gal cement reservoir on the hill above the mill which our water supply runs into by gravity.
- 2 8000 gal tanks
- 1 5000 " tank
- 1 3000 " "
- 2 500 " tanks
- 1 10 by 10 Fairbanks Morse Compressor
- 1 6 H P " " Gas Engine with hoist
- 1 Hoist Cable, 250 feet
- 2 1200 lbs ore cars
- 1500 feet ore car rails
- 1 Ingersol Jack Hammer
- 1 Jack Hammer Stand
- 1 tank water pressure for jack hammer
- 1 Sullivan Stoper
- 1 lot Jack Hammer Steel
- 1 " Stoper Steel
- 1 large Air Receiver
- 1 small " "
- 1 640 gal truck water or oil tank
- 2 wheel barrows, shovels, picks, hammers & other small equipment
- 3 miles 2 inch pipe line, 1 mile 1 inch pipe line, 1 mile ¾ inch pipe line

Blacksmith shop & equipment, boarding house & 4 cabins.

(continued from page c )

In addition to the equipment listed above we have the following:

- 1 16,000 gal cement reservoir on the hill above the mill which our water supply runs into by gravity.
- 2 8,000 gal tanks
- 1 5,000 gal tank
- 1 3,000 gal tank
- 2 500 gal tanks
- 1 10 by 10 Fairbanks Morse Compressor
- 1 6 HP Fairbanks Morse Gas Engine with hoist
- 1 Hoist Cable, 250 feet
- 2 1200 lbs. ore cars
- 1500 feet ore car rails
- 1 Ingersol Jack Hammer
- 1 Jack Hammer Stand
- 1 tank water pressure for jack hammer
- 1 sullivan Stoper
- 1 lot Jack Hammer Steel
- 1 lot Stoper Steel
- 1 large Air Receiver
- 1 small Air Receiver
- 1 640 gal truck water or oil tank
- 2 wheelbarrows, shovels, picks, hammers and other small equipment
- 3 miles 2 inch pipe line, 1 mile 1 inch pipe line, 1 mile 3/4 inch pipe line

Blacksmith shop and equipment, boarding house and 4 cabins.

Gold Crown Mine

We need the following equipment to complete our mill as per flow-sheet attached:

- 1 Jaw Crusher
- 1 Conveyer
- 1 Ore Screen
- 1 Ball Mill
- 1 Classifier
- 1 Duplex Mineral Jigg
- 1 Corduroy Blanket Amalgamator (made on ground)
- 1 Conditioner
- 1 Concentrate Filter
- 2 small pumps
- some extra belting, pipe and other connections.

24. Ore. (continued from original page)

The track is now in from the mill in the tunnel to this ore body. We figure this ore will run from \$10 to \$20 per ton, and the vein is from one to three feet wide. It will cost from \$3.00 to \$4.00 per ton to mine this ore and put it in the mill. We have caught this ore on the mill level by running a tunnel 200 feet to this ore body. This same tunnel we have driven in the mountain 450 feet. We caught the above vein at the 200 foot point. We should run this 450 foot tunnel another 50 feet where we should cross cut another vein about the same value in the ore and also the width about the same as the vein we have already developed. However if we catch this vein as we anticipate we should have 250 feet stopping on the vein from tunnel level to the top of the hill. Then, if we continue this tunnel about 100 feet further we will catch a third vein that is considerably wider and the values should be approximately about the same, but very little work has been done on this vein. We have a large body of partially determined ore from 10 to 15 feet wide from which assays show runs from \$4.00 to \$9.00 per ton. This ore can be mined and put in the mill for about fifty cents per ton, as it is near the mill. Our largest body of ore, known as the Monster claim or Monster group of claims lies about 1-3/4 miles from the mill and this vein is around 25 feet wide. We have developed this for about 300 feet up the hill and from numerous assays and a number of mill runs in quantity lots at different times, this ore should average \$7.00 per ton. We believe we have at least 10,000 tons of positive ore now developed in this claim. This ore can be mined and delivered at the mill for around \$1.00 per ton. We have at least 12 more different claims where we have ore facings and partially developed where milling ore can be obtained. We also have a number of high grade narrow veins. There has already been taken out of our Golden Gate claim around \$75,000 in gold.

16. and 17. Mill: Type and Cap. etc. No. 25. Mine, Mill Equipment and Flow-Sheet.  
(continued from original page)

We have a good mill building of about 3000 square feet floor space, with ample fall from the crushing mill through different stages to the tailing pond, and the following machinery on hand which is in good condition:

- 1 25 HP Fairbanks Morse Oil Engine
- 1 90 HP Continental Gas Engine
- 5 No. 15 Denver Equipment Flotation Cells
- 1 17 HP Electric Generator with switch board and transformer
- 1 One HP Electric Motor
- 1 Two HP Electric Motor
- 1 Barrel Amalgamator
- 1 Pierce Amalgamator
- 1 30 ton fine ore bin
- 1 Ore Screen
- 1 Ore Feeder
- 1 7 by 10 Allis Chalmers Crusher
- 6 Cone settling tanks
- 1 3 1/2 HP Gas Engine
- 1 Centrifugal Pump

We have now on hand one 50 ton lane slow speed mill, which should be taken out and the following machinery should be installed to make our mill complete for a 50 ton mill as outlined by tests made,

- 1 Ball mill
- 1 Classifier
- 1 Duplex Mineral Jigg
- 1 Corduroy Blanket  
Amalgamator
- 1 Conditioner
- 1 Concentrate Filter and Pump
- 1 Ore Crusher and 110 ft. conveyer

(continued on page two)



DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

Mine GOLD CROWN

Date January 30, 1940.

District Weaver, Mohave Co.

Engineer Elgin B. Holt,  
P. O. Box 288,  
Kingman, Ariz.

Subject:

SYNOPSIS REPORT

- OWNER:** Gold Crown Mining Company, J. F. Shelley, President,  
P. O. Box 628, Kingman, Arizona.
- MINERALS:** Gold and copper; gold predominating.
- LOCATION:** Property reached from Kingman by following Highway 93  
59 miles northwest toward Boulder Dam; thence 3 miles  
westerly by level dirt road to mine.
- HISTORY:** The various veins of property have been worked superfic-  
ially from time to time for the last 30 or 40 years by  
various owners and some ore has been shipped in small  
quantities. A 60-ton mill was erected at property  
several years ago; but failed to recover gold values  
economically due to copper content in the ores. This  
mill is still intact. It will be discussed more fully  
further along in this report.
- GEOLOGY:** The country rock for several miles surrounding the prop-  
erty consists mainly of schist, with local areas of gran-  
ite, grano-diorite and gneiss. Huge porphyry dikes and  
smaller veins traverse property; both carrying gold and  
copper.
- VEINS:** The largest vein, or vein-dike, on property is located on  
the Monster claim, situated 1.75 miles south of mill on  
level to rolling mesa ground. Here is found a huge ore  
shoot about 50 feet in width and traceable for two or  
three hundred feet on the surface. It is developed by  
several shallow open cuts to a depth of 10 to 20 feet  
only. Gangue consists of decomposed iron-stained quartz  
and "porphyry", with bunches of copper silicate and carb-  
onate here and there in the mass. Mr. Shelley informed  
me that a 25-foot section of this vein, next to the hang-  
ing wall thereof, averages from \$6.00 to \$7.00 gold per  
ton, plus 0.6% copper. Values, or more exactly gold val-  
ues cannot be recovered by cyanidation and only partly by  
amalgamation, due to the copper content in the ore; but  
Mr. Shelley further stated he had tests run some time ago  
by the Denver Equipment Company, indicating that gold val-  
ues can be recovered by a combination of flotation, tabling  
and amalgamation.

Another important vein is the "Big Vein", on the Pride of  
the West claim; the same being 40 feet in width, and dips  
into the mountain at an angle of 20 degrees. This vein has  
been stripped along the surface for sampling at intervals  
and averages from \$4.47 to \$9.45 gold, per Mr. Shelley.

**VEINS (Continued):** The Pride of the West Vein, from 1 to 3 feet wide, is developed by an open cut on vein for 120 feet and by a cross-cut tunnel 650 feet in length which intersects vein at a depth of 150 feet with 60 feet of drifting on vein at tunnel and mill ore bin level. In the said 60 feet of drifting, 18 tons of ore were removed and milled, giving an average of \$17.00 gold per ton and 1.5% copper. Character of ore is oxidized material, as is the case with all ores so far developed in mine, the copper, as stated occurring in the form of silicate and carbonate.

Two other veins further up the hill from the Pride of the West Vein could also be opened up for stoping by the cross-cut tunnel mentioned, as follows:

The first one of these veins could be cut by extending said tunnel 50 feet further. This vein is also from 1 to 3 ft. wide. The next one of these veins, which is five feet wide can be intersected by extending the cross-cut tunnel 150 feet beyond the first vein. This data was also furnished me by Mr. Shelley, at the time I looked the property over.

#### **WATER SUPPLY:**

A 3.5 mile 2-inch gravity pipe line leads from spring and reservoir in Cottonwood Canyon to a 16,000 gallon cement reservoir just above mill, supplying 10,000 gallons of water in 24 hours during dry season, up to 20,000 gallons during wet periods.

Also a 1.5 mile 1-inch gravity pipe line ~~also~~ brings water to the mill reservoir mentioned from the Omega claim, supplying about one gallon per minute.

One other spring located one mile above mill, if developed should also provide an equal amount of water now obtained from the Cottonwood Canyon spring, above described.

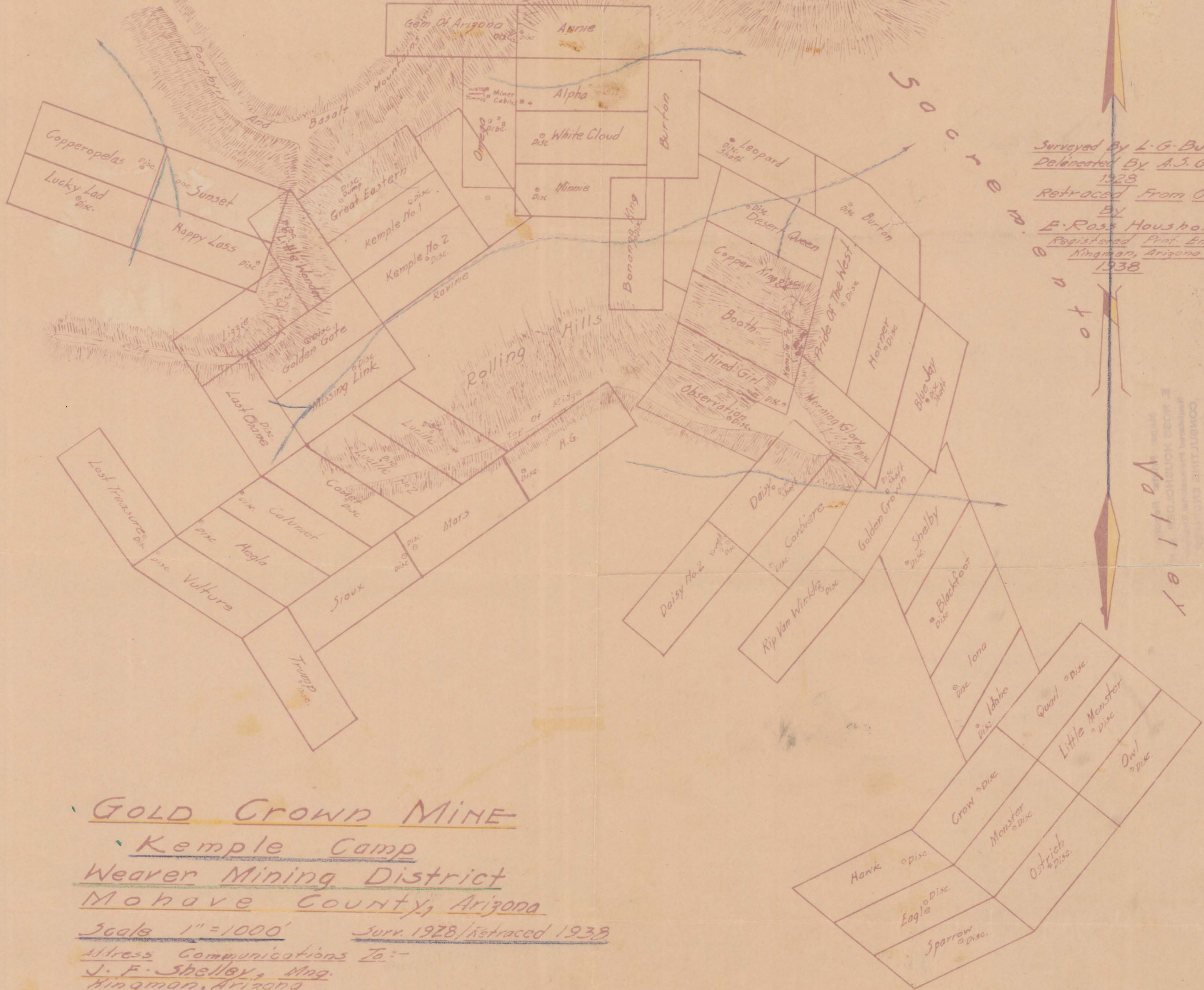
Again, an addition supply of water, estimated at 8,000 gallons in 24 hours, could be obtained from 2 shafts on the Golden Gate claim, 1.5 miles above mill.

In short, all in all, sufficient water could be developed to supply a 100-ton mill with ~~continuous~~ for 24 hours during the year round, per Mr. Shelley.

#### **MILLS:**

Mill equipment and machinery on hand:

- 2 5,000 gallon tanks,
- 1 3,000 " tank,
- 1 5,000 " "
- 2 500 " tanks,
- 1 Screen,
- 1 7" by 10" jaw crusher,
- 1 Ore feeder,
- 5 No. 15 Denver Equipment Company flotation cells,
- 1 17-H. P. generating plant with engine,
- 2 Motors, 1 and 3 H. P. each,
- 1 Pierce amalgamator,
- 1 25- H. P. Fairbanks Morse gas engine,
- 1 10 by 10 " " compressor,



Surveyed By L.G. Burton  
 Delinated By A.J. Gunn  
 1928  
 Retraced From Original  
 By  
E. Ross Hausholder  
 Registered Prof. Engineer  
 Kingman, Arizona  
 1938

GOLD CROWN MINE

Kemple Camp  
Weaver Mining District  
Mohave County, Arizona

Scale 1" = 1000'      Surv. 1928/Retraced 1938

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