CONTACT INFORMATION
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Arizona Geological Survey
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Arizona Department of Mines and Mineral Resources Mining Collection

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KING OF ARIZONA YUMA COUNTY

RRB WR 8/29/86: Doc Birdick reports that the lack of water is the major problem at the King of Arizona mine, Yuma County. They need a supply of at least 35gpm and have drilled eight holes with the best one capable of producing 5 to 6 gpm. More drilling is planned. They are also storing water from the dewatering of the North Star Mine by Yuma Gold, Ltd. He said that Barons Oil Ltd. of Lethbridge, Alberta Canada, Howard H. H. Oliver in charge, is the current financial backer and that a video tape has been made to assist in raising capital. A copy of the tape is being prepared for this department.

KAP WR 11/7/86: P.A. "Doc" Birdick (c) called and reproted on the status of activity at the King of Arizona (file) Yuma County. A Verbal Information Summary has been written.

KAP WR 1/23/87: Received a call from an investor in the Barrons Gold effort to bring into production the King of Arizona Mine (file) La Paz County. He has not received any money and wanted to know what was happening. Gave him our latest file information and suggested he toalk to Doc Birdick.

KAP WR 5/8/87: Doc Birdick called and reported on the current sttus of activities at the King of Arizona Mine (file). A verbal information summary has been completed.

NJN R 10/16/87: John Dowis of Callahan Mining (card) reported that Doc Birdick (card) has a lease through June 15 with Baron Gold Corp (card) on the King of Arizona Mine (file) Yuma County.

NJN WR 3/11/88: Tim Scott of MM&T Resources of Montana reported that they are interested in joint venturing with Barons Gold Inc at the Kofa Mine (file) Yuma County to examine the lode potential.

NJN WR 8/12/88: Bob Langguth (card) reported that Baron Gold Inc (card) at the King of Arizona (file) Yuma County has shut down their tailings reprocessing efforts. They are not wooking to either selling or obtaining a new financing source for this leaching project.

KING OF ARIZONA YUMA COUNTY

KAP WR 6/15/84: P.E. "Doc" Birdick, Yuma, reported he is currently being wooed by a number of possible leasors for his King of Arizona Mine (file) Yuma County. He has decided to go with Combined Geo-Services Inc., 445 E. 200 S., Suite 300, Salt Lake City, Utah 84111, ph: (801) 359-4382. Gary M. Lee is the president. Combined Geo-Services is essentially picking up properties on behalf of clients. Birdick is to receive a $10,000 advance payment, minimum rentals every 6 months and a royalty to $12,000,000.

KAP WR 7/6/84: John Challinor reported that the lease option signed between P.E. "Doc" Birdick owner of the King of Arizona Mine (file) Yuma County, Arizona and Gary M. Lee of Combined Geo-Services (address in file) has been assigned to Klondex Mines Lts, 850 West Hastings Street, Suite 404, Vancouver, B. C. V6C 1E1, phone 604-685-1205. Work on the property will be handled through Klondex Gold and Silver Mining Co., Elko Nevada, phone 702-738-8471. George Meschi, President, Scurry Rainbow, 14 Knollwood Road, East Chester, New York 10709 is the primary money source. Work planned at the King of Arizona Mine includes geolgic mapping, geochemical sampling, underground sampling and possible drilling.

RRB WR 1/17/86: Joe Arundale reports that he has been asked to assist in "Licensing and Permitting" for an operation on the tails of the King of Arizona in Yuma Co. The company is Barons Gold Inc., 657 South 1050 East, Orem, Ut 84058 - (801) 226-0079. Tom Henrie, President - Separate report has been written.

KAP WR 4/11/86: "Doc" Birdic reported that an additional water well has been drilled on his King of Arizona Mine (file), Kofa District, Yuma County.

NJN WR 6/27/86: Doc Birdick (c) called and reported that Barons Gold is planning a slury leach of tailings at the King of Arizona (f) Yuma County. Barons has recently been drilling in search of a water supply for the leaching operation with little success.

KING OF ARIZONA MINE Do Not Repeoduce YUMA COUNTY

MG WR 1/23/81: David Hartley, owner of the Andrada Marble Co., reports he has a competitive interest, with Western Nuclear, in the King of Arizona Mine (Yuma County).

KAP WR 3/13/81: P.E. Birdick (Doc) reported he turned down Western Nuclear's option offer for his King of Arizona Claim, Kofa District, Yuma County. He apparently did not want to give up his property.

MG WR 10/2/81: Doctor Birdick of Yuma reports that various companies are looking at his KOFA mine (Yuma county)

KAP WR 11/13/81: "Doc" P.E. Birdick owner of the King of Arizona reported on the current "heavy" interest in the mine. A number of companies and/or promotions are looking at the property. He went on to report that John Tilitson, a good friend and resident at the mine, has John Rudd run a table test on some ore on the property. Don Birdick also reported that a geologist - Tom Patton, 7725 E. Maner Place, Tucson - phone 298-4411 has sampled and mapped some of the King of Arizona for a Manuiso in Anglewood, Colorado.

NJN WR 12/18/81: "Doc" Burdick, owner of the King of Arizona Mine, Yuma County, called. He reported that Jim Jones, geologist for Bower Metals of New Jersey, visited his property to evaluate the tailings and dump. Bower Metals told "Doc" they had recently finished leaching a dump in the Tombstone area.

KAP WR 1/15/82: A test lot of high grade gold ore from the Rob Roy Mine, Kofa District, Yuma County, was run through the Stutenroth Mill. The 1800+ or - pounds yielded a few pounds of high grade concentrate according to P. E. "Doc" Birdick, owner of the property.

KAP WR 4/9/82: Doc Birdick reported he is planning to sign an agreement for someone to work the King-of-Arizona, Kofa District, Yuma County.

KING OF ARIZONA YUMA COUNTY

RRB WR 4/23/82: Bruce Kay was in to look at the King of Arizona Mine file. He said that he was doing a water availability study for a client in the area.

JHJ - Telephone Call from Dr. Birdick. He leased the King of Arizona and the Rob Roy to Western Development Co. in Denver, Colorado. W.D.C. has now been taken over by Nova Petroleum Co. in Denver. A Mr Don Peele is their landman, his address is: 1640 Grant St., Suite 200, Denver, Colo. 80203, Phone: 303-839-1855.

RRB WR 8/27/82: Fred Croxen, 344-0175, has been hired by NOva Petroleum to do the assessment work on the KOFA and Rob Roy. There are five unpatented claims - which they have leased from Doc Burdick. He is doing a geological evaluation and said he would send us a copy of the report for our files. Mr. Croxen has a masters degree in geology from NAU, but is not yet registered.

NJN WR 6/24/83: Doc Burdick reported that he has the ball mill in running condition at the King of Arizona Mine, Yuma County, but is now unable to operate it as the water well pump is broken.

KAP WR 7/29/83: Dr. P.E. Birdick, Yuma, reported Golden Falcon International Company has been trying to talk him into leasing them his King of Arizona Mine. He explained he understands Golden Falcon is owned 45% by Hal Gardner, 45% by Robert Roe and 10% by Gene Stowe. Dr. Birdick said he is not praticularly interested in elasing to the company.

NJN WR 8/12/83: "Doc" Burdick reported that a group known as Golden Falcon, Inc. is anxious to lease his porperty. Golden Falcon is composed of Hal Gardner (45%), Bob Rowe (45%), and Gene Stowe (10%). They are offering $20,000 now, with $1,400 monthly and payments to start in January 1984. A bench test performed on tailings from the KOFA, Yuma County, performed by Gene Stowe averaged a .14 oz Au/ton recovery. Also interested in the KOFA are Jo Davis and Tom Patton. They are offering $10,000 to lease the mine and tailings plus a $50,000 work committment.

KING OF ARIZONA MINE Do Not Reproduce

Dr. Birdick said Oxy Minerals Company had been dickering with him for the King of Arizona tailings. It is reported they assayed $1.15/T at $20 Au. He thinks they are in excess of 700,000 tons. GW WR 6/21/73

Dr. Birdick, Yuma, called to ask about the minimum recovery of Au from the Kofa mine tailing. It was suggested that no less than 75% should be expected and that the minimum should not have any particular bearing on the negotiations of the royalty rate. The impression is that the Dr. is making a deal with someone to re-treat these tailings. GW WR 8/7/73

Mine visit to King of Arizona mine. The visit was to include a complete tour of the underground workings of the King of Arizona. However, due to the delayed arrival of the geology class and mine owner which we were to accompany, we only able to tour the haulage ways of a single level. Neither the geology instructor or the mine owner were familiar with the geology of the deposit or the mining methods. I did not accompany the group on the final portion of the tour due to unsafe conditions which the mine owner apparently neither observed nor understood. These conditions involved a flase floor that had been established across the mined vein by piling palo verde branches across timbering that was used to hold open the stope. This false floor was then used as a floor to shrinkage stope to the surface. All of the ore had been drawn off the floor and the branch lagging has rotted. There were a number of places where the floor had given way and one could see down dip several hundred feet. KAP WR 12/8/74

KP WR 5/16/79 - Approximately 100 pounds of hand sorted galena-fluorspar ore was delivered to Jack Hamilton at the Tonto Mining and Milling Company. The rock was obtained from a dump on the northwest portion of the King of Arizona patented ground, Kofa District, Yuma Co. Mr. Hamilton will crush the rock, assay for lead and fluorspar and run mill recovery tests. If the tests prove satisfactory, up to 2,000 tons of similar material may be able to be hand sorted from the old development dump. 5/16/79 a.p.

See King of Az Lead Fluorite file

RRB WR 10/31/80: Andy Ruedi of Western Nuclear in Flagstaff was in to get information from the King of Arizona file (Yuma County). They are considering the property as a prospect.

KAP WR 10/31/80:Dr. P.E. Birdick reported that Western Nuclear has requested to visit his King of Arizona Mine, Kofa District, Yuma County. They are interested in the potential of continuation of the gold-silver orebody below the cut-off of ore mined during previous operations. He wanted to know if Western Nuclear was a legitimate company and had the capability of proceeding with his property. It was explained that they are a subsidiary of Phelps Dodge Corp and definitely legitimate and capable.

Colorado School of Mines Research Institute

P.O. BOX 112 • GOLDEN, COLORADO 80401
PHONE (303) 279-2581 CSMRI

RECEIVED
JAN 1 1980
DEPT. MINERAL RESOURCES
PHOENIX, ARIZONA

August 20, 1975

CSMRI Project B50449

Mr. Alan C. Stoneman, President
Stoneman Enterprises, Inc.
Griffith Building/Suite 202
3471 Via Lido
Newport Beach, California 92660

Dear Mr. Stoneman:

The purpose of this letter is to present the results from processing three gold tailing samples. We have processed Vulture Stamp tailing (CSMRI Sample 1), Vulture Cyanide tailing (CSMRI Sample 2, and King of Arizona tailing (CSMRI Sample 3). This work was authorized by a research agreement dated June 16, 1975, and signed by you.

All three samples were processed in the same manner. Each sample was blended and, after removing a head sample, split into two parts: one part was retained and the other became feed to rocker box processing.

The procedure for the rocker box was as follows: The sample was slurried with water containing a small amount of wetting agent (American Cyanamid OT), scrubbed lightly in a horizontal scrubber, and processed across a 4-foot-long by 16-inch-wide rocker box. The concentrate from this operation became feed to a small, 18 inches long by 9 inches wide, rocker box. The concentrate from the small rocker box was hand panned to produce a final gravity concentrate; this then was assayed for gold and silver.

All silver and gold analyses were made by the fire method. Because some analyses, especially those of the head samples, were different from what had been expected, additional samples were sent to other laboratories.

The attached tabulation presents the results of gravity concentration and compares the assays from the different laboratories.

CSMRI Sample No.	Sample Description[2]	Fire Assay								Values Recovered by Gravity Concentration[1]	
		Au, oz/ton				Ag, oz/ton				Au oz/ton	Ag oz/ton
		CSMRI	Skyline	Union	USBM	CSMRI	Skyline	Union	USBM		
1	Vulture Stamp Tailing										
	Feed:										
	+200 mesh	Nil				0.005					
	-200 mesh	0.002	0.034	0.020	0.029	0.338	<0.01	0.2	0.160		
	Gravity Concentrate:									0.002	0.001
	+150 mesh	1.167				0.35					
	-150 mesh	6.740	6.888	7.350	NA	2.40	2.34	2.4	NA		
	Vulture Cyanide Tailing										
	Feed:										
	+200 mesh	Nil				0.003					
	-200 mesh	0.002	<0.005	0.020	0.011	0.358	<0.01	0.1	0.120		
	Gravity Concentrate:									0.001	0.001
	+150 mesh	0.233				0.10					
	-150 mesh	2.464	2.60	2.745	NA	2.55	2.42	3.6	NA		
3	King of Arizona Tailing										
	Feed:										
	+200 mesh	Nil				Nil					
	-200 mesh	0.002	0.026	0.020	0.020	0.438	0.3	10.4	0.380		
	Gravity Concentrate:									0.001	0.001
	+150 mesh	1.812				0.92					
	-150 mesh	0.764	0.72	NA	NA	1.14	0.84	NA	NA		

1/ Based on CSMRI assay of total gravity concentrates.

2/ After pulverizing the samples for assay, some +200 or +150 mesh material was still contained in the pulverized product. Since the presence of metallics could have been responsible for this coarseness, the samples were screened at 200 or 150 mesh and the total amount of +200 or +150 mesh used for the analyses. There was, however, enough of the -200 or +150 mesh to have additional assays performed.

Intra-Company Correspondence

SHATTUCK DENN MINING CORPORATION

and

SUBSIDIARIES

Humboldt Office

Date March 3, 1966

TO: C. R. Sundeen

SUBJECT: KING OF ARIZONA MINE

FROM: J. Olaf Sund

TYPE: Gold

LOCATION: A past producing gold mine in the Kofa Mountain Range and similarly the Kofa mining district in Yuma County. More specifically, it is located in the northeast corner of T-2-S and R-17-W.

HISTORY:

The ore vein was first discovered in 1896 and production extended from 1897 to 1910. The mine was developed from a vertical 750 foot shaft in the hanging wall. Drifts extend 2000 feet long to the west and only 200 feet to the east of the shaft. Pillars and the surface sill etc. have been salvaged presumably through the entire workings.

REFERENCES:

"Geology and Mineral Deposits of Southern Yuma County"; Arizona Bureau of Mines, Vol. IV, No. 2, Geological Series No. 7, Bulletin No. 134, Feb. 1933, pp 109.

"Arizona Lode Gold Mines and Gold Mining"; Arizona Bureau of Mines, Vol V, No. 6 Mineral Tech. Series No. 37, Bulletin No. 137, Aug. 1934, pp 137.

GEOLOGY:

The ore zone is enclosed within a generally widespread andesite porphyry. The andesite is a pale reddish very fine-grained and silicified flow rock with numerous 1/8 inch feldspar phenocrysts. A number of more recent breccia volcanic pipes and, or sills intrude the andesite but apparently have no bearing on the ore zones. The latter pipes are probably part of the younger basalt flow rocks.

The ore zone itself is a brecciated silicified zone with irregular stringers of quartz and calcite that vary from a few to 30 feet wide but average about 12 feet. The strike varies from north 60 degrees west to nearly true west such that there are apparent "rolls" to the ore zone, or what is more likely cross fissures in the 60 degree direction with the west side moving north. The overall zone dips some 60 degrees south.

ORE:

The walls of the ore zone diverge with increasing depth and hence the grade diminished. The average in the upper levels was approximately 2 ounces gold per ton. The gold occurred in a very finely divided free state with a little accompanying silver in the

ratio of 58 to 1. There were three parts to the ore zone, namely a 3 inch schist layer on the hanging wall, a 20 inch layer of quartz etc. and 3 feet of foot wall.

A sample that probably represents the ore zone or vein assayed as follows:

Sample No. Au--0.09 Ag--0.4

ECONOMIC POSSIBILITIES:

The mine appears to be completely salvaged. The ore zone is apparently cut off at the east end by strong cross fissures and has dropped in grade at depth. Therefore, the two obvious potential areas at this mine are to extend the ore zone to the west and to locate the off-set eastern extension. The latter would be a difficult task for the mountain drops off quickly to the sand desert.

CONCLUSIONS:

At best any extensions to the above ore veins in the form of "shoots" will probably be of limited size. This together with the cost factors of gold etc. would indicate that such an exploration venture would have limited chance of success. It would, hence, be best not to pursue this project any further.

JOS/db

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Duplicate

Mine King of Arizona

Date May 4, 1960

District Kofa District, Yuma Co.

Engineer Lewis A. Smith

Subject:

Mr. F. X. Woods, Wellton, stated that he auger sampled the King of Arizona tailings in the late 30's and found that most of his samples ran about $0.75 per ton and that the highest sample ran $1.10. His recollection was that the King tailings were coarser than those at the Arizona Star. He estimated that they would be about 10-12 mesh on the average, although the range was considerable. He stated that it was his belief that the remaining gold was tied up in part in the coarser material and that fine grinding would be necessary to free this part of the gold.

PROPOSED LEASE AGREEMENT 8-3-83

HOW FIVE

Edith A. Croxen

Attorney at Law

300 N. Main
Suite 201
Tucson, Arizona 85705
(602) 623-4767

July 26, 1983

Dr. Phillip A. Birdick
P.O. Box 231
Yuma, Arizona 85364

Re: Lease Agreement with RJM Corporation

Dear Dr. Birdick,

Enclosed herein please find a copy of the new lease agreement which we discussed over the weekend. Please review it and if you wish me to take further action such as sending it to RJM or speaking with Mr. Davis about this, let me know. I will not send it to them without authorization from you as you may have some new ideas after having thought this over.

Hope this is satisfactory. I certainly enjoyed meeting you - hope that your stay at our house was not too hectic. Thanks for dinner.

Sincerely,

Edith

EDITH A. CROXEN

EAC:js
Enclosure

Of Counsel
Fred W. Croxen Jr.—Flagstaff, Arizona
H. R. Gannan—Member California State Bar

Arizona Department of Mines and Mineral Resources

VERBAL INFORMATION SUMMARY

May be Reproduced

1. Information from: Joe Arundale
   Address: Suite D-308, 351 E. Thomas Rd., Phx., AZ 85012 (602) 277-2069
2. Mine: King of Arizona 3. ADMMR Mine File King of Arizona
4. County: Yuma 5. District Kofa
6. Township 1 S Range 17 W Sec(s) 12
7. Location: MILS 95
8. No. of Claims - Patented _____ Unpatented _____
9. Owner (if different from above) Dr. Phillip Burdick
10. Address: P.O. Box 231, Yuma, AZ 85364
11. Operating Company: Barons Gold, Inc., 657 S. 1050 E., Orem, UT 84058 (801) 226-0079
12. Pertinent People and/or Firm: Tom Henrie, President
13. Commodities: Gold
14. Operational Status: Development
15. Summary of information received, comments, etc.:

Barons Gold, Inc. is a Utah company authorized to do business in Arizona. Their legal representative is Sally Oliver, Mesa (602) 830-3070. Mr. Henrie asked Mr. Arundale to handle "Licensing and Permitting" and to make contact with all the pertinent government agencies for them. They hope to start operations in March or April of this year.

Mr. Henrie formerly was Chief Scientist with the Bureau of Mines and has developed a leaching system he calls "damp leach wash system". They estimate 700,000 tons of tailings averaging .04 oz/ton gold which they intend to treat by this method. All water will be recycled and cyanide consumption will be 1/2 pound per ton. Slimes will be 24% water and sand 10%.

Date: 1/13/86 (Signature) ADMMR

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

VERBAL INFORMATION SUMMARY
May be Reproduced

1. Information from: Doc P.E. Birdick
   Address: Yuma
   Phone:
2. Mine: King of Arizona 3. ADMMR Mine File: King of Arizona
4. County: Yuma MILS Number:
5. District: (mining) (or mineral)
6. Township: Range Sec(s)
7. USGS Topographic Map:
8. Location (descriptive):
9. Number of Claims: Patented Unpatented
10. Owner(s): (if different from above)
11. Address:
12. Operating Company: Baron's Gold
13. Pertinent People and/or Firm:
14. Commodities: gold
15. Operational Status: Pilot testing and start-up
16. Summary of information received, comments, etc.:

Doc Birdick reported that Baron's Gold is producing in a very small way and does not plan to ship any gold until they have produced 100 ounces. He feels they may currently have 10 -15 ounces.

They are having a slime problem, especially in the filters. They have purchased a used thickener they plan to install with the hope if will allow most of the slimes to settle out.

Water availability is still a problem. They currently have a storage capacity of about 750,000 gallons which is full. However, when in production, the stored water is drawn down much faster than it can be replenished. As a result they have finally decided to try to refurbish the Kofa Well which supplied water to operations at the turn of the century. This will include about 6 miles of pipeline.

Date: May 5, 1987

(Signature) AZDMMR

Arizona Department of Mines and Mineral Resources

VERBAL INFORMATION SUMMARY

May be Reproduced

1. Information from: P.A. "Doc" Birdick
   Address: (card)
2. Mine: King of Arizona 3. ADMMR Mine File same
4. County: Yuma 5. District
6. Township Range Sec(s)
7. Location:
8. No. of Claims - Patented Unpatented
9. Owner (if different from above)
10. Address:
11. Operating Company:
12. Pertinent People and/or Firm:
13. Commodities:
14. Operational Status:
15. Summary of information received, comments, etc.:

P. A. "Doc" Birdick (c) called and reported that the first new production of dore from the King of Arizona (file) Yuma County tailings leaching project will be made before the end of the year. He estimates it will be 30 - 40 oz of gold. The carbon is not completely loaded but the principal investor, Mr. Oliver, had threatened to curtail funding if there was no production by year's end. Mr. Birdick reveiwed leaching operations and operating personnel at the King of Arizona. Twenty tons of tailings are processed per hour and have been, on a 24 hour basis, for the last 3 weeks. Production would have been attained earlier but numerous problems were encountered with the filters and vacumn pumps. The water shortage problem is still with them but is partially alleviated by getting water from the North Star Mine. Over $1 million has been spent so far on this project. If a positive cash flow develops, Mr. Oliver may invest some of the money into exploration of the King of Arizona mine. Mr. Birdick again invited the Department engineers to visit the tailings leaching operation.

Date: 12/19/86 Nyal Niemuth
(Signature)
ADMMR

King of Arizona (+)
Yuma Co.

FOR OFFICE USE ONLY
START-UP NUMBER 68126139
STATE NUMBER
MSHA NUMBER

JOE

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: BARONS OIL LIMITED

DIVISION: BARONS GOLD, INC

MINE OR PLANT NAME: KING OF ARIZONA TELEPHONE: (403) 328-4033
MINE PHONE 782-9886 -300 -14209

CHIEF OFFICER: HOWARD H. OLIVER

COMPANY ADDRESS: 104, 1410 MAYOR MAGRATH DR.

CITY: LETHBRIDGE STATE: ALBERTA ZIP CODE: CANADA

YUMA ADDRESS: P.O. BOX 4369, YUMA AZ 85364

MINE OR PLANT LOCATION: (include county and nearest town, as well as directions for locating property by vehicle) YUMA COUNTY
25 MILES EAST OF STONE CABIN
OLD KING OF ARIZONA MINE

TYPE OF OPERATION: CYANIDE LEACHING PRINCIPAL PRODUCT: GOLD

STARTING DATE: SEPT 1/86 CLOSING DATE: _____ DURATION: _____

PERSON COMPLETING NOTICE: H.G. OLIVER TITLE: SECRETARY/TREAS

DATE NOTICE MAILED TO STATE MINE INSPECTOR: AUG. 25/86

FORM 101-106 REV. 10/85

Arizona Department of Mines and Mineral Resources

VERBAL INFORMATION SUMMARY

May be Reproduced

1. Information from: P. A. "Doc" Birdick
   Address: (card)
2. Mine: King of Arizona 3. ADMMR Mine File same
4. County: Yuma 5. District
6. Township Range Sec(s)
7. Location:
8. No. of Claims - Patented Unpatented
9. Owner (if different from above)
10. Address:
11. Operating Company: Barons Oil Limited, AKA Barons Gold
12. Pertinent People and/or Firm:
13. Commodities: Gold
14. Operational Status: Development
15. Summary of information received, comments, etc.:

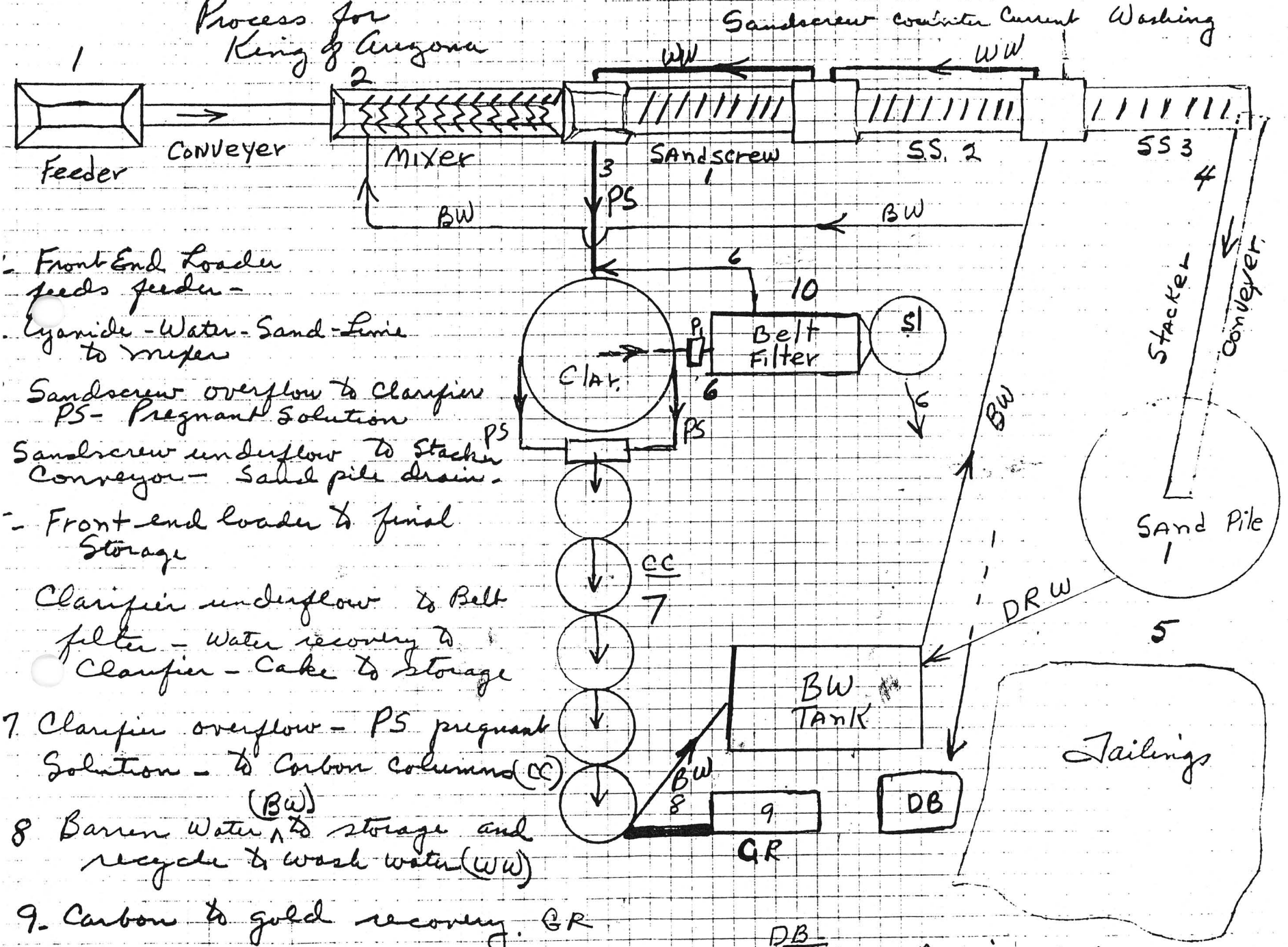
Me. Birdick reported on current activity at the King of Arizona. The main effort is now to procure water to retreat the old tailings. They have sunk a well on the San Carlos Patent (part of the King of Arizona) which produces 15 gallons/minute. They have tested the Baker Well. It can only produce 1.75 gallons/minute on a continuing basis. They are still considering re-establishing the King of Arizona Well in the Kofa Plain, but it will require 6-8 miles of pipeline.

A water storage basin (500,000 gallon capacity) has been built near the Rob Roy Well. A pipeline has been constructed from the North Star mine to the basin.

A 5 day pilot cyanide heap leach test has been run. No results are available.

Date: 11/5/86 Ken A. Phillips (Signature) ADMMR

Process for King of Arizona



- Front End Loader feeds feeder -
- Cyanide - Water - Sand - Lime to mixer
- Sandscrew overflow to Clarifier PS - Pregnant Solution
- Sandscrew underflow to Stacker Conveyor - Sand pile drain.
- Front-end loader to final Storage
- Clarifier underflow to Belt filter - Water recovery to Clarifier - Cake to Storage
7. Clarifier overflow - PS pregnant Solution - to Carbon Columns (CC)
8 Barren Water (BW) to storage and recycle to wash water (WW)
9. Carbon to gold recovery. GR
10 - Fresh water enters circuit to wash belt -

DB Overflow Drainage Basin

ASSAY AND WEIGHTED GRADES FROM KOFA AUGER DRILLING
JANUARY,1991

NOTE:
LOST = SAMPLE MISSING
--- = SAMPLE NOT TAKEN
* = ASSAY INTERVAL SPLIT TO MATCH TAIL/GRAVEL CONTACT
+----+
| | = SAMPLE GRADE EITHER MANUFACTURED OR CUT (NUGGET EFFECT)
+----+

KOA-1

FROM	TO	FEET	MATERIAL	AU	WT.AV.	AG	WT.AV.
0	10	10	TAIL	0.015	0.015	0.41	0.41
10	20	10	GRAV.	LOST		LOST	

KOA-2

FROM	TO	FEET	MATERIAL	AU	WT.AV.	AG	WT.AV.
0	10	10	GRAV.	0.003		0.25	
10	20	10	GRAV.	0.002		0.13	
20	30	10	GRAV.	0.003	0.0027	0	0.127
30	37	7	GRAV.	LOST		LOST	

KOA-3

ROM	TO	FEET	MATERIAL	AU	WT.AV.	AG	WT.AV.
0	10	10	GRAV.	0.002		0.14	
10	20	10	GRAV.	0.000		0	
20	30	10	GRAV.	0.002	0.0013	0	0.047

KOA-4

FROM	TO	FEET	MATERIAL	AU	WT.AV.	AG	WT.AV.
0	10	10	GRAV.	0.021		0.12	
10	20	10	GRAV.	0.007		0	
20	32	12	GRAV.	0.007	0.0114	0	0.038

KOA-5

FROM	TO	FEET	MATERIAL	AU	WT.AV.	AG	WT.AV.
0	10	10	TAILS	0.020	0.0200	0.22	0.220
10	15	5	GRAV.	LOST		LOST	

KOA-6

FROM	TO	FEET	MATERIAL	AU	WT.AV.	AG	WT.AV.
0	10	10	TAIL	0.023		0.54	
10	20	10	TAIL	0.023		0.54	
20	24	4	TAIL	0.017	0.0220	0.36	0.510

KOA-7

FROM	TO	FEET	MATERIAL	AU	WT.AV.	AG	WT.AV.
0	10	10	TAIL	0.020		0.46	

10	19	9	TAIL	0.022	0.0209	0.5	0.479

KOA-8

FROM	TO	FEET	MATERIAL	AU	WT.AV.	AG	WT.AV.
0	10	10	TAIL	0.031		0.68	
10	20	10	TAIL	0.042		0.79	
20	30	10	TAIL	0.039		0.63	
30	39	9	TAIL	0.041		0.76	
39	48	9	TAIL	0.045	0.0395	0.48	0.670

KOA-9

FROM	TO	FEET	MATERIAL	AU	WT.AV.	AG	WT.AV.
0	10	10	TAIL	0.034		0.7	
10	20	10	TAIL	0.046		0.66	
20	30	10	TAIL	0.039		0.55	
30	40	10	TAIL	0.039		0.53	
40	47	7	TAIL	0.042	0.0399	0.55	0.601

KOA-10

FROM	TO	FEET	MATERIAL	AU	WT.AV.	AG	WT.AV.
0	10	10	TAIL	0.031		0.43	
10	21	11	TAIL	0.021	0.0258	0.29	0.357

KOA-11

FROM	TO	FEET	MATERIAL	AU	WT.AV.	AG	WT.AV.
0	10	10	TAIL	0.038		0.3	
10	20	10	TAIL	0.022		0.34	
20	30	10	TAIL	0.033		0.35	
30	40	10	TAIL	0.048		0.38	
40	45	5	TAIL	0.048	0.0367	0.38	0.347
45	50	5	*GRAV.	0.048	0.0378	0.38	0.350

KOA-12

FROM	TO	FEET	MATERIAL	AU	WT.AV.	AG	WT.AV.
0	10	10	TAIL	0.032		0.45	
10	20	10	TAIL	0.025		0.37	
20	30	10	TAIL	0.030		0.35	
30	36.5	6.5	TAIL	0.031	0.0294	0.33	0.379
36.5	39	2.5	*GRAV.	0.031	0.0295	0.33	0.376

KOA-13

FROM	TO	FEET	MATERIAL	AU	WT.AV.	AG	WT.AV.
0	10	10	TAIL	0.023		0.18	
10	20	10	TAIL	0.012		0.31	
20	30	10	TAIL	0.018	0.0177	0.41	0.300
30	37	7	LOST RTN.	---		---	

KOA-14

FROM	TO	FEET	MATERIAL	AU	WT.AV.	AG	WT.AV.
0	10	10	TAIL	0.010		0.28	
10	20	10	TAIL	0.017		0.21	
20	30	10	TAIL	0.019	0.0153	0.42	0.303
30	40.5	10.5	GRAV.	0.017	0.0158	0.19	0.274

KOA-15

FROM	TO	FEET	MATERIAL	AU	WT.AV.	AG	WT.AV.
0	10	10	TAIL	0.023		0.24	
10	20	10	TAIL	0.021		0.24	
20	30	10	TAIL	0.017		0.24	
30	35	5	TAIL	0.023	0.0207	0.38	0.2783
35	38	3	GRAV.	0.028	0.0213	0.26	0.2738

KOA-16

FROM	TO	FEET	MATERIAL	AU	WT.AV.	AG	WT.AV.
0	10	10	TAIL	0.023		0.31	
10	15	5	TAIL	0.021	0.0223	0.29	0.303
15	17	2	GRAV.	0.007	0.0205	0	0.268

KOA-17

FROM	TO	FEET	MATERIAL	AU	WT.AV.	AG	WT.AV.
0	10	10	TAIL	0.012		0.27	
10	15	5	TAIL	0.055	0.0263	0.26	0.267
15	17	2	GRAV.	0.021	0.0257	0	0.235

KOA-18

FROM	TO	FEET	MATERIAL	AU	WT.AV.	AG	WT.AV.
0	5	5	TAIL	0.026	0.026	0.26	0.26
5	15	10	GRAV.	0.016		0.64	
15	26.5	11.5	GRAV.	0.02	0.0196	0.12	0.343

KOA-19

FROM	TO	FEET	MATERIAL	AU	WT.AV.	AG	WT.AV.
0	8	8	TAIL	0.042	0.042	0.63	0.63
8	18	10	GRAV.	0.02	0.0298	0.36	0.480

KOA-20

FROM	TO	FEET	MATERIAL	AU	WT.AV.	AG	WT.AV.
0	10	10	TAIL	0.037		0.52	
10	22	12	TAIL	0.033	0.0348	0.78	0.662
22	25	3	GRAV.	0.02	0.0330	0.64	0.659

KOA-21

KOA-22

FROM	TO	FEET	MATERIAL	AU	WT.AV.	AG	WT.AV.
0	7	7	TAIL	0.037	0.037	0.58	0.58
7	9	2	GRAV.	0.069	0.0441	0.27	0.511

KOA-23

FROM	TO	FEET	MATERIAL	AU	WT.AV.	AG	WT.AV.
0	10	10	TAIL	0.04		0.64	
10	20	10	TAIL	0.041		0.85	
20	26	6	TAIL	0.035	0.0392	0.91	0.783
26	34	8	GRAV.	0.026	0.0361	0.33	0.676

KOA-24

FROM	TO	FEET	MATERIAL	AU	WT.AV.	AG	WT.AV.
0	10	10	TAIL	0.029		0.72	
10	20	10	TAIL	0.026		0.74	
20	30	10	TAIL	0.035		0.74	
30	35	5	TAIL	0.036	0.0309	0.7	0.729
35	36	1	GRAV.	---		---	

KOA-25

FROM	TO	FEET	MATERIAL	AU	WT.AV.	AG	WT.AV.
0	10	10	TAIL	0.034		0.26	
10	16	6	TAIL	0.019	0.0284	0.47	0.339

KOA-26

FROM	TO	FEET	MATERIAL	AU	WT.AV.	AG	WT.AV.
0	10	10	TAIL	0.024		0	
10	15	5	TAIL	0.02		0.19	
15	25	10	TAIL	0.017		0	
25	31	6	TAIL	0.021	0.0205	0.4	0.108
31	32	1	GRAV.	---		---	

KOA-27

FROM	TO	FEET	MATERIAL	AU	WT.AV.	AG	WT.AV.
0	10	10	TAIL	0.023		0.35	
10	20	10	TAIL	0.028		0.28	
20	25	5	TAIL	0.032	0.0268	0.34	0.320
25	27	2	GRAV.	---		---	

KOA-28

FROM	TO	FEET	MATERIAL	AU	WT.AV.	AG	WT.AV.
0	10	10	TAIL	0.041		0.36	
10	20	10	TAIL	0.051		0.38	
20	31	11	TAIL	0.044	0.0453	0.4	0.381
31	32.5	1.5	GRAV.	---		---	

KOA-29

FROM	TO	FEET	MATERIAL	AU	WT.AV.	AG	WT.AV.
0	10	10	TAIL	0.022		0.39	
10	20	10	TAIL	0.033		0.4	
20	25	5	TAIL	0.043	0.0306	0.38	0.392
25	27	2	GRAV.	0.031	0.0306	0.46	0.397

KOA-30

FROM	TO	FEET	MATERIAL	AU	WT.AV.	AG	WT.AV.
0	10	10	TAIL	0.03		0.39	
10	20	10	TAIL	0.024		0.49	
20	26	6	TAIL	0.038	0.0295	0.37	0.424
26	31	5	GRAV.	0.078	0.0374	0.47	0.431

KOA-31

FROM	TO	FEET	MATERIAL	AU	WT.AV.	AG	WT.AV.
0	10	10	TAIL	0.03		0.36	
10	20	10	TAIL	0.021		0.21	
20	28	8	TAIL	0.019	0.0236	0.14	0.244
28	31.5	3.5	GRAV.	0.023	0.0236	0.22	0.241

KOA-32

FROM	TO	FEET	MATERIAL	AU	WT.AV.	AG	WT.AV.
0	10	10	TAIL	0.031		0.37	
10	20	10	TAIL	0.03		0.37	
20	30	10	TAIL	0.051		0.53	
30	35	5	TAIL	0.029	0.0364	0.42	0.423
35	41	6	GRAVEL	0.029	0.0353	0.49	0.433

KOA-33

FROM	TO	FEET	MATERIAL	AU	WT.AV.	AG	WT.AV.
0	10	10	TAIL	0.028		0.51	
10	20	10	TAIL	0.021		0.5	
20	30	10	TAIL	0.036		0.67	
30	36	6	TAIL	0.04	0.0303	0.46	0.543
36	40	4	GRAV.	0.03	0.0303	0.49	0.538

KOA-34

FROM	TO	FEET	MATERIAL	AU	WT.AV.	AG	WT.AV.
0	10	10	TAIL	0.025		0.5	

10	20	10	TAIL	0.024		0.62		
20	30	10	TAIL	0.036		0.55		
30	40	10	TAIL	0.041		0.42		
40	48	8	TAIL	0.04	0.0329	0.51	0.520	
48	50	2	GRAV.	---		---		

KOA-35

FROM	TO	FEET	MATERIAL	AU	WT.AV.	AG	WT.AV.	
0	10	10	TAIL	0.031		0.62		
10	20	10	TAIL	0.034		0.51		
20	30	10	TAIL	0.05		0.42		*AU GRADE CUT
30	40	10	TAIL	0.032		0.4		FROM .194 TO .5
40	50	10	TAIL	0.036		0.53		
50	55	5	TAIL	0.033	0.0354	0.71	0.515	
55	60	5	GRAV.	0.046	0.03625	0.63	0.525	

KOA-36

FROM	TO	FEET	MATERIAL	AU	WT.AV.	AG	WT.AV.
0	10	10	TAIL	0.044		0.56	
10	20	10	TAIL	0.034		0.5	
20	30	10	TAIL	0.05		0.61	
30	40	10	TAIL	0.055		0.53	
40	50	10	TAIL	0.055		0.64	
50	60	10	TAIL	0.057	0.0492	0.49	0.555
60	62	2	GRAV.	---		---	

Date Printed: 01/31/94

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

VERBAL INFORMATION SUMMARY

Information from: **"Doc" P.A. Birdick**

Company:

Address:
City, State ZIP: Yuma, Arizona
Phone: 602-783-5012

MINE: **King of Arizona**

ADMMR Mine File: King of Arizona Mine
County: **Yuma**
AzMILS Number: **95**

SUMMARY

"Doc" Birdick reported that he has begun the legal process to remove the lessors from his King of Arizona Mine.

He has notified the Olivers and he reports they are broke. The lease was assigned to Timber Resource and Mr. Birdick reports he has not received any payments from them for over 14 months. He is owed $35,000.

He has had a restraining order issued to keep anything of value, including Timber Resources' equipment from being removed from the property. The restraining order is temporary bending a hearing to be held on January 10, 1994.

Doc used attorney Scott Donaldson of Scottsdale who recommended Jerry Haggart who suggested a Yuma attorney who drafted the order and had it issued by the Yuma County Superior Court. Workers employed by Timber Resources on the property were served with the order. The process server charged $150 to serve the papers.

Ken A. Phillips, Chief Engineer Date: January 5, 1994

VIS6.13

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

VERBAL INFORMATION SUMMARY

1. Information from: P. E. "Doc" Birdick

   Company:

   Address:

2. Phone:

3. Mine: King of Arizona

4. ADMMR Mine File: same

5. County: Yuma MILS Number:

6. Summary of information received, comments, etc.:

   Doc Birdick reported he has received copies of the drilling results by A. F. Budge on the tailings at the King of Arizona Mine. He has sent the Department a copy for our file.

Date: 9-4-91 Engineer: Ken A. Philiips KAP

VIS6.7

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

VERBAL INFORMATION SUMMARY

1. Information from: **P. A. "Doc" Birdick**

   Company:

   Address:
   Yuma, Arizona

2. Phone:

3. Mine **King of Arizona**

4. ADMMR Mine File: **King of Arizona**

5. County: **Yuma** MILS Number:

6. Summary of information received, comments, etc.:

   Doc Birdick called and reported on the status of events at the King of Arizona mine.

   Messrs. Lee, Henrie, Oliver and possibly others who have the King of Arizona mine leased from Birdick, had hired a purported mine manager Terry Kozak at a rate of $3,000 per month. They became disillusioned with him, but never fired him. He stayed on the property and sold off some equipment and kept the money. He has filed a lien for $50,000 against the property for unpaid wages. Doc has contacted Jerry Haggard for a legal review of his options.

   Doc went on to say that Kozak was not competent to solve any of the problems at the operation.

   Copies of Doc Birdick's leases were provided for the mine file

Date: May 30, 1991 Engineer: Ken A. Phillips

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

VERBAL INFORMATION SUMMARY

1. **Information from:** "Doc" P. E. Birdick
2. **Address:** Yuma
3. **Phone:**
4. **Mine or property name:** King of Arizona
5. **ADMMR Mine file:**
6. **County:** Yuma
7. **MILS Number:**
8. **Operational Status:** Idle
9. **Summary of information received, comments, etc.:**

   "Doc" Birdick, fee simple owner of the patented property, reported activity is on hold, as there is no sufficient water to perform any operations. All equipment is still on site and 3 watchmen are at the property.

Date: January 16, 1990

Ken A. Phillips Ken A. Phillips

K116-1 .VIS

DOC2

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

VERBAL INFORMATION SUMMARY

1. **Information from:** "Doc" P. E. Birdick
2. **Address:** Yuma
3. **Phone:**
4. **Mine or property name:** King of Arizona
5. **ADMMR Mine file:** King of Arizona
6. **County:** Yuma
7. **MILS number:**
8. **Operational Status:**
9. **Summary of information received, comments, etc.:**

"Doc" Birdick reported that Mr. Covack has re-arranged the equipment at the King of Arizona mine and is producing a jig concentrate from tailings and shipping the concentrate to somewhere in San Bernardino, California.

Date: May 8, 1990 Ken A. Phillips KAP

January 11, 1991

Dale,

Enclosed are maps with reserve estimates and grades from KofA. The total tonnage estimate is about 729,223 tons, as shown on the "tonnage block" map. This block estimate was derived from volume calculations using the enclosed cross sections. Later the tailings were partitioned, and tonnages along with average grade for each partition were estimated from the cross sections and the tonnage block map (see "tons and average grade by zone" map). This estimate gives a total reserve of about 727,896 tons at an average grade of .032 opt Au. Eliminating most of the low grade area to the southeast, as we discussed, the reserve is about 590,480 tons at .035 opt Au. This number is a little higher than we first talked about because the higher grade zone was moved slightly further southeast, closer to KOA-12 (see map).

Tons and grade during this estimate included nothing below the first appearance of gravel in the sample return. Thus, additional tonnage in the gravel is quite possible as shown by the assays. I'll get a report on this estimate to you soon. As a famous metallurgist once said "have a good weekend"---even though its Monday.

Regards, Jim

ZONA DEPARTMENT OF N RESOURCES
Mineral Building, Fairgrounds
Phoenix, Arizona

1. Information from: P. A. Birdick

   Address: 48 Second Street, Yuma, Arizona 85364

2. Mine: King of Arizona (Kofa) / Rob Roy 3. No. of Claims - Patented ____ Unpatented ____

4. Location: ____

5. Sec 12 Tp 2 S Range 17 W 6. Mining District Kofa

7. Owner: P. A. Birdick

8. Address: 48 Second Street, Yuma, Arizona 85364

9. Operating Co.: ____

10. Address: ____

11. President: ____ 12. Gen. Mgr.: ____

13. Principal Metals: Gold 14. No. Employed: ____

15. Mill, Type & Capacity: ____

16. Present Operations: (a) Down [X] (b) Assessment work ☐ (c) Exploration ☐
    (d) Production ☐ (e) Rate ____ tpd.

17. New Work Planned: ____

18. Miscl. Notes: On December 8, a visit was made to the Rob Roy Mill and King of Arizona Mine with "Doc" Birdick and a class of Arizona Western College geology students. We first toured the Rob Roy Mill , a nearly complete 50 tpd amalgamation mill consisting of a jaw crusher, ball mill, rake classifier, amalgamation cells, slime and sand cyaniding plant, with the necessary diesel power plant. According to Birdick the mill was constructed by the Rob Roy Development Co. to process ore that would be found by new "development" work directed toward finding ore in a suspected continuation of the King vein. Little or no ore was found and mill operated on only a small quantity of ore from the King of Arizona. We then toured the

(CONTINUED ON REVERSE SIDE)

Date: December 8, 1974

Ken A. Phillips
(Signature) (Field Engineer)

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine: King of Arizona — Date: May 4, 1960

District: Kofa District, Yuma Co. — Engineer: Lewis A. Smith

Subject:

Mr. F. X. Woods, Wellton, stated that he auger sampled the King of Arizona tailings in the late 30's and found that most of his samples ran about $0.75 per ton and that the highest sample ran $1.10. His recollection was that the King tailings were coarser than those at the Arizona Star. He estimated that they would be about 10-12 mesh on the average, although the range was considerable. He stated that it was his belief that the remaining gold was tied up in part in the coarser material and that fine grinding would be necessary to free this part of the gold.

AR ONA DEPARTMENT OF M NER/ RESOURCES
Mineral Building, Fairgrounds
Phoenix, Arizona

1. Information from: Dr. P.A. Birdick Optometrist

   Address: 48 2nd St., Yuma, Arizona

2. Mine: Kofa (King of Arizona) 3. No. of Claims - Patented

   Unpatented

4. Location:

5. Sec 12 Tp 2S Range 17W 6. Mining District Kofa

7. Owner: Dr. P.A. Birdick

8. Address: same as above

9. Operating Co.: -

10. Address: -

11. President: - 12. Gen. Mgr.:

13. Principal Metals: GOLD 14. No. Employed:

15. Mill, Type & Capacity:

16. Present Operations: (a) Down ☒ (b) Assessment work ☐ (c) Exploration ☐
    (d) Production ☐ (e) Rate tpd.

17. New Work Planned: On Oct. 19th 1973 I visited Dr. Birdick in his office. He told me the following: He also owns the Rob Roy mine adjacent to the Kofa Mine. Recently there has been three companies interested in his mine with the idea of reworking the dumps for gold: (1) Occidental (Larry Dietzman, 6852 Cerrillos Rd., Santa Fe, N. Mexico) collected samples to verify those that were reported on in a 1945 report; his company decided it was too small. (2) Another unknown company from Calif. looked at it and turned it down and (3) A Mr. Harlow Simpson of Industrial Minerals, 2115 Juno Place, Anaheim, Calif. 92804, made an offer of a 10% royalty to Birdick. Whether this offer went through, I don't know. The company had run assays on the tailings years ago which assayed $1.25/ton when gold was $35./oz. Water is the key to the development of the property.

18. Miscl. Notes:

Date: Oct. 19, 1973

RLL
(Signature) (Field Engineer)

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

VERBAL INFORMATION SUMMARY

1. Mine file: KOFA
2. Mine name if different from above:
3. County: Yuma
4. Information from: John Dowis

   Company: Callahan Mining Corp.

   Address: 11811 N. Tatum Blvd. #4055

   Phoenix, AZ 85028

   Phone: 953-5965

5. Summary of information received, comments, etc.:

Mr. Dowis reports he has been in contact with Howard Oliver, president of North Continental Energy. Mr. Oliver's Sun Lakes, AZ winter phone number is 895-7516. Barron Oil has spun off North Continental Energy. They have an annual lease on the Kofa which runs through next summer. They plan to put additional efforts into recovering gold from the tailings.

Date: December 12, 1988

Nyal J. Niemuth, Mining Engineer

P.A. Birdick, O.D.
OPTOMETRIST
48 SECOND STREET — TELEPHONE 783-5012
P.O. BIN 231 — YUMA, ARIZONA 85364

10 Oct-89

John Davis
Callahan Mining Corp.

Find enclosed a copy of the Hankins Report. (1984 MS THESIS) IN GEOLOGY FILE

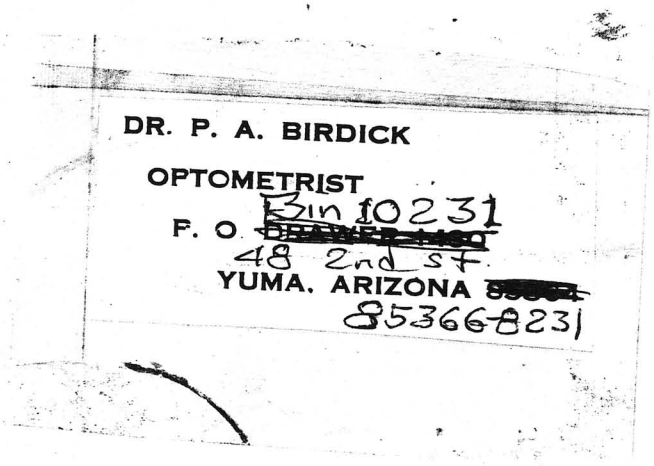
If you find that, after reading it, you want a copy to keep in your file, — then make a copy. To save you time I am enclosing an extra copy of the large map.

Please take the report over to Ken Phillips and the other fellows at the Fairgrounds, as soon as practical.

So far I have been unable to come up with a copy of the colored version of the map, — but I am sending the blue-line for the present rather than make you wait any longer.

David spent, I would guess, at least 250 to 300 hours covering the area with small maps which were combined to make the final map.

P.A. Birdick


DR. P. A. BIRDICK
OPTOMETRIST
F. O. Bin 10231
48 2nd St.
YUMA, ARIZONA
85366-8231

STRICKLAND COMPANY, INC.

PRECIOUS METAL REFINERS

PURCHASED FROM: Bob Johnson
6851 N Hwy 101
Hamel, Mn. 55340
(PRINT)

REPRESENTATIVE _____ (PRINT)

PURCHASE ORDER
012797

DATE 10-26-81

PHONE 561-3747
Lloyd,

TYPE OF MATERIAL	TOTAL
55 lbs Gross wt.	
Sand ore for assay	
Gold .59	
Silver → ↗ .874	
Information learned 10 Nov. 81 by phone from John Gleason	
Min assay chg.	100.00

ERMS: Approx 4 wks

PAID BY CHECK NO. _____

Company Representative

8096 CENTRAL AVENUE N.E., MINNEAPOLIS, MN 55432 (612) 786-4800

HUNTER MINING LABORATORY, INC.
1522 GREG STREET
994 Glendale Avenue
SPARKS, NEVADA 8943[illegible]
TELEPHONE: (702) 358-6227

REPORT OF ANALYSIS

Submitted by:

HARDING LAWSON ASSOCIATES
Mr. Richard B. Weiss
P. O. Box 578
Novato, California 94947

Date: September 3, 1980

Laboratory Number: 8232

Analytical Method: AA

Your Order Number:

Report on: 20 samples, received under Laboratory No.: 6861.

Sample Mark:	Gold ppm	Silver ppm	Sample Mark:	Gold ppm	Silver ppm
CM-1 22' HLA	0.7	3			
CM-2 12'	0.8	4			
CM-3 22'	0.3	4			
CM-4 20'	1.1	3			
CM-5 15'	0.6	3			
CM-6 20'	0.9	4			
CM-7 20'	1.0	4			
CM-8 5'	0.4	2			
CM-9 5'	1.0	5			
CM-10 5' HLA	0.4	3			

HUNTER MINING LABORATORY, INC.

Gary M. Fechko

ppm = parts per million. oz/ton = troy ounces per ton of 2000 pounds avoirdupois. percent = parts per hundred. fineness = parts per thousa
ppb = 0.001 ppm. Read — as "less than." 1 oz/ton = 34.286 ppm. 1 ppm = 0.0001% = 0.029167 oz/ton. 1.0% = 20 pounds/ton.

1522 GREG STREET
994 Glendale Aven
SPARKS, NEVADA 89431
TELEPHONE: (702) 358-6227

REPORT OF ANALYSIS

Submitted by:

HARDING LAWSON ASSOCIATES
Mr. Richard B. Weiss
P. O. Box 578
Novato, California 94947

Date: September 3, 1980

Laboratory Number: 8232

Analytical Method: AA

Your Order Number:

Report on: 20 samples, received under Laboratory No.: 6861.

Sample Mark:	Gold ppm	Silver ppm
CM-1 22' HLA	0.7 .02044	3.0876
CM-2 12'	0.8 .02336	4.1168
CM-3 22'	0.3 .00876	4.1168
CM-4 20'	1.1 .03212	3.0876
CM-5 15'	0.6 .001752	3.0876
CM-6 20'	0.9 .02628	4.1168
CM-7 20'	1.0 .0292	4.1168
CM-8 5'	0.4 .01168	2.0584
CM-9 5'	1.0 .0292	5.146
CM-10 5' HLA	0.4 .01168	3.0876

Sample Mark:	Gold ppm	Silver ppm
Average	.72 oz/ton	3.5
Average	.021024	.1022

(.72 x .0292 = .021024)
(3.5 x .0292 = .1022)

Gold #700 x $14.7168
Silver #25 x $ 2.555
$ 17.271 / ton

Sept. 1980

HUNTER MINING LABORATORY, INC.

Gary M. Fechko

ppm = parts per million. oz/ton = troy ounces per ton of 2000 pounds avoirdupois. percent = parts per hundred. fineness = parts per thousa
ppb = 0.001 ppm. Read — as "less than." 1 oz/ton = 34.286 ppm. 1 ppm = 0.0001% = 0.029167 oz/ton. 1.0% = 20 pounds/ton.

Colorado School of Mines Research Institute

PO BOX 112 • GOLDEN, COLORADO 80401
PHONE (303) 279-2581 CSMRI

RECEIVED
JAN 4 1980
DEPT. MINERAL RESOURCES
PHOENIX, ARIZONA

August 20, 1975

CSMRI Project B50449

Mr. Alan C. Stoneman, President
Stoneman Enterprises, Inc.
Griffith Building/Suite 202
3471 Via Lido
Newport Beach, California 92660

Dear Mr. Stoneman:

The purpose of this letter is to present the results from processing three gold tailing samples. We have processed Vulture Stamp tailing (CSMRI Sample 1), Vulture Cyanide tailing (CSMRI Sample 2, and King of Arizona tailing (CSMRI Sample 3). This work was authorized by a research agreement dated June 16, 1975, and signed by you.

All three samples were processed in the same manner. Each sample was blended and, after removing a head sample, split into two parts: one part was retained and the other became feed to rocker box processing.

The procedure for the rocker box was as follows: The sample was slurried with water containing a small amount of wetting agent (American Cyanamid OT), scrubbed lightly in a horizontal scrubber, and processed across a 4-foot-long by 16-inch-wide rocker box. The concentrate from this operation became feed to a small, 18 inches long by 9 inches wide, rocker box. The concentrate from the small rocker box was hand panned to produce a final gravity concentrate; this then was assayed for gold and silver.

All silver and gold analyses were made by the fire method. Because some analyses, especially those of the head samples, were different from what had been expected, additional samples were sent to other laboratories.

The attached tabulation presents the results of gravity concentration and compares the assays from the different laboratories.

CSMRI Sample No.	Sample Description[2]	Fire Assay								Values Recovered by Gravity Concentration[1]	
		Au, oz/ton				Ag, oz/ton				Au oz/ton	Ag oz/ton
		CSMRI	Skyline	Union	USBM	CSMRI	Skyline	Union	USBM		
1	Vulture Stamp Tailing										
	Feed:										
	+200 mesh	Nil				0.005					
	-200 mesh	0.002	0.034	0.020	0.029	0.338	<0.01	0.2	0.160		
	Gravity Concentrate:									0.002	0.001
	+150 mesh	1.167				0.35					
	-150 mesh	6.740	6.888	7.350	NA	2.40	2.34	2.4	NA		
2	Vulture Cyanide Tailing										
	Feed:										
	+200 mesh	Nil				0.003					
	-200 mesh	0.002	<0.005	0.020	0.011	0.358	<0.01	0.1	0.120		
	Gravity Concentrate:									0.001	0.001
	+150 mesh	0.233				0.10					
	-150 mesh	2.464	2.60	2.745	NA	2.55	2.42	3.6	NA		
3	King of Arizona Tailing										
	Feed:										
	+200 mesh	Nil				Nil					
	-200 mesh	0.002	0.026	0.020	0.020	0.438	0.3	10.4	0.380		
	Gravity Concentrate:									0.001	0.001
	+150 mesh	1.812				0.92					
	-150 mesh	0.764	0.72	NA	NA	1.14	0.84	NA	NA		

1/ Based on CSMRI assay of total gravity concentrates.

2/ After pulverizing the samples for assay, some +200 or +150 mesh material was still contained in the pulverized product. Since the presence of metallics could have been responsible for this coarseness, the samples were screened at 200 or 150 mesh and the total amount of +200 or +150 mesh used for the analyses. There was, however, enough of the -200 or +150 mesh to have additional assays performed.

Rob Roy - May 79

Telephone 363-3302

Hand Sample Serial 12620-12635

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

W. C. WANLASS, President
G. P. WILLIAMS, Vice President
A. S. JOLLIFFE, Treasurer
GERALDINE A. WANLASS, Secretary
P. O. Box 1528
Salt Lake City, Utah 84110

Line Coe & Van Loo
4550 No 12th St
Phoenix, AZ

RESULTS PER TON OF 2000 POUNDS

May 2, 1979

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Per Cent	COPPER Per Cent	INSOL Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per C
R 0+25E	0.010	none									
R 0+25W	0.020	0.2									
R 0+48W	0.010	0.4	← at end of northwest drift								
R 0+50E	0.230	0.3									
R 0+75E	0.540	0.4	14@0.085								
R 1+00E	0.050	0.3									
R 1+25E	0.050	0.4									
R 1+50E	0.010	none									
R 1+75E	0.025	0.5									
R 2+00E	0.010	none									
R 2+25E	0.020	0.3									
R 2+50E	0.010	0.2									
R 2+75E	Trace	0.1									
R 3+00E	0.210	0.2	← at end of southeast drift								
OA-1	2.540	1.4	"Sample No. 1" — from tub of vein samples on King of Az. property								
ordon's ~~Bast~~ best	1.070	0.7	choice specimens from Rob Roy property								

CVL
COE & VAN LOO
CONSULTING ENGINEERS INC.
ENGINEERING · PLANNING

REGISTERED PROFESSIONAL ENGINEER
REGISTERED LAND SURVEYOR

cut samples

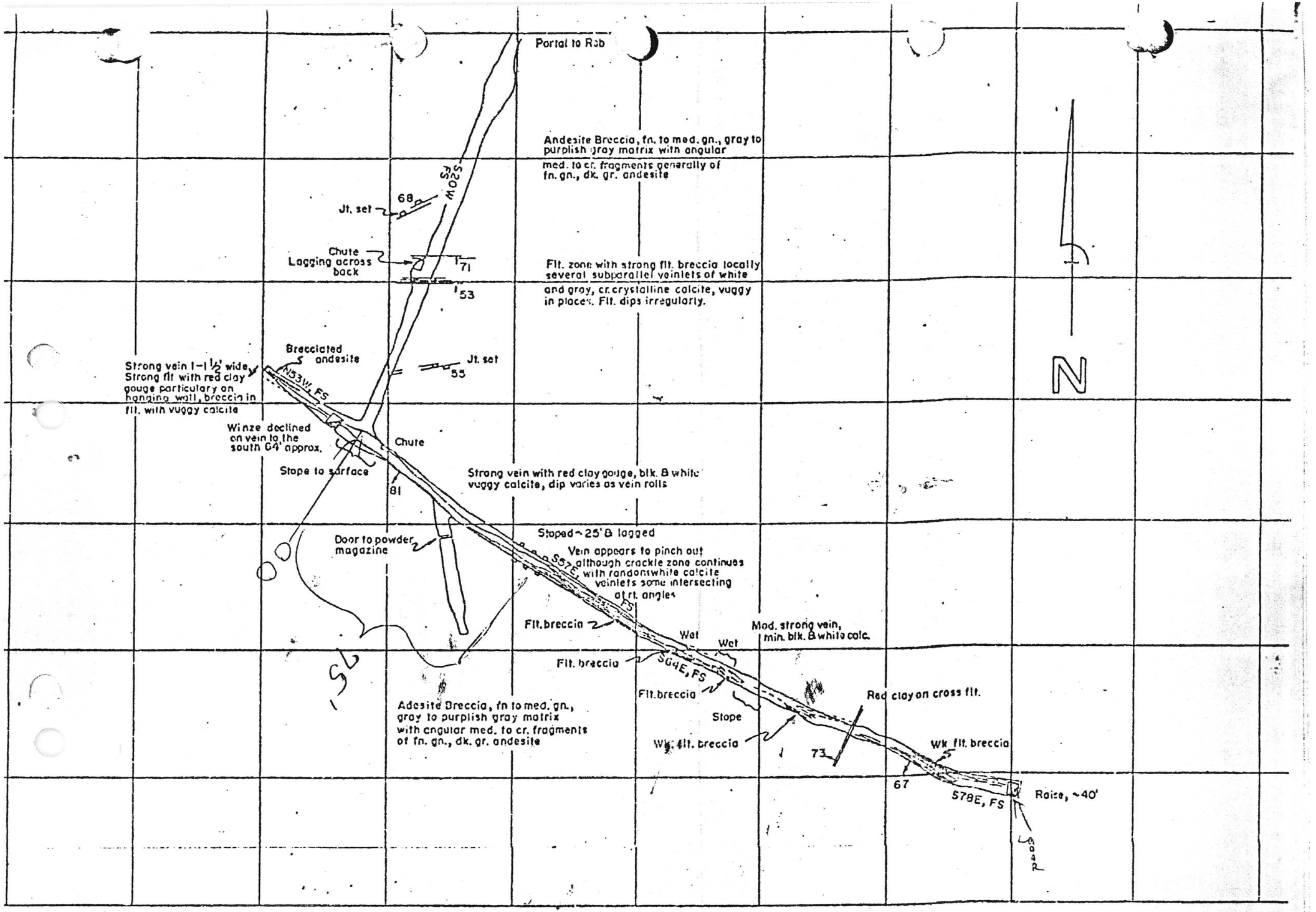
H. MASON COGGIN
SENIOR VICE PRESIDENT

4550 NORTH 12TH STREET · PHOENIX, ARIZONA 85014
TELEPHONE (602) 264-6831 · TELEX 910-951-1372

Remarks

Charges $ 96.00

G. P. Williams



MINE ROB ROY
GEOLOGY BY MIKE N. GREELEY
SURVEY BY GLENN MILLER

DATE 26 APRIL 1979
SCALE 1" = 50'

HARDING-LAWSON ASSOCIATES
ENGINEERS GEOLOGISTS AND GEOPHYSICISTS

7655 REDWOOD BOULEVARD
P.O. BOX 578
NOVATO, CALIFORNIA 94947 415/892-0821

ALASKA
CALIFORNIA
HAWAII
ILLINOIS
NEVADA
TEXAS
WASHINGTON, D.C.
SAUDI ARABIA
NIGERIA

LETTER OF TRANSMITTAL

TO: Dr. P. A. Birdick
P. O. Bin 231
Yuma, Arizona 85364

ATTENTION:

SUBJECT: King of Arizona Tailings

OUR JOB NO: 10 020 001 01

Transmitted herewith ~~is~~/are the following:

We finally received the results of our testing at the King of Arizona. Enclosed are copies of our results of the atomic absorption and semi-quantitative spectrographic analysis. I apologize for the delay.

~~This~~/These ~~is~~/are for

X Your use and need not be returned.

___ Your use; please return them when you have finished.

___ Your review; please return them with your comments

HARDING-LAWSON ASSOCIATES

By Katherine Angius
Katherine M. Angius

Date 9/17/80

CC:

HARDING-LAWSON ASSOCIATES
ENGINEERS, GEOLOGISTS AND GEOPHYSICISTS

7655 REDWOOD BOULEVARD
P.O. BOX 578
NOVATO, CALIFORNIA 94947 415/892-0821

ALASKA
CALIFORNIA
HAWAII
ILLINOIS
NEVADA
TEXAS
WASHINGTON, D.C.
SAUDI ARABIA
NIGERIA

X 11/9

Mr Hicks
Encl info for
my file in your
office. PAB.

RECEIVED
MAR 17 1980
DEPT. MINERAL RESOURCES
PHOENIX, ARIZONA

March 10, 1980

10,020,001.01

Dr. P. A. Birdick
P. O. Box 231
Yuma, Arizona 85364

Dear Dr. Birdick:

Harding-Lawson Associates (HLA) is researching reclamation of inactive tailings ponds and dams in the western United States. The study involves determination of present technology for reclaiming or restoring tailings pond sites and on-site investigations to determine the individual characteristics at about 20 selected sites. The investigation is being conducted under U.S. Bureau of Mines, Contract No. J019917, "Development of Methods for Reclaiming Abandoned Tailings Ponds and Dams".

We are presently in the site selection process. The tailings ponds area at the Rob Roy Mine and the King Mine appears to be a good prospective study area. We would greatly appreciate your cooperation in allowing us to conduct a brief field visit there. To give you a better idea of what this would involve, we have outlined who we are and pertinent facts about the project below.

HLA is a consulting geotechnical engineering firm founded in 1957 and our total staff now numbers about 175 individuals. Our main office is in Novato, with other California offices in San Francisco, Santa Rosa, Concord and Tustin, plus Reno, Houston, Chicago, Anchorage and Honolulu. The disciplines practiced by HLA deal primarily with the materials of the earth--soil, rock and water--and with the function of these materials in construction and as natural resources. We work on many projects for the mining industry, including many involving design of tailings dams.

This present study will evaluate reclamation and remining potential for several tailings pond sites located in two climatic regions of the western United States. The criteria for study site selection are:

Three of the sites determined inactive and uneconomical for remining will be recommended as possible sites for reclamation demonstrations. Of the three sites, one may be chosen for a hands-on demonstration project to be performed by the U.S. Bureau of Mines.

The final report will consist of data collected during the field visits, water and mineral analyses, summary analysis and interpretation of the data for each site and bibliographic references. This report will be produced in two separate volumes. The body of the report, Volume I, will designate each tailings site by a code letter. To insure anonymity, the tailings sites and their designated code letters will be cross indexed in an appendix, Volume II. The section of Volume I pertaining to your site will be sent to you for review before the completed report is placed on U.S.B.M. open file. Volume II will be restricted and available only within the U.S.B.M. Copies of all data collected on the Rob Roy Mine and the King Mine will be sent to you on completion of the project.

A large portion of our effort will be compiling background data. Your assistance in locating pertinent information for your site would also be greatly appreciated. Please send us copies of any information pertinent to the items requested in the attached list.

We would appreciate any help you could give us in expediting this request. Please sign the attached letter acknowledging your permission for access to this site and return it to us in the enclosed envelope at your earliest convenience.

Thank you for your cooperation and assistance. If you have any questions concerning this project, please feel free to contact Jim Davies, Richard Weiss or myself at 415/892-0821.

Sincerely,

Katherine Angius

Katherine Angius,
Project Geologist

KMA/RBW/jd

LIST OF DESIRED DATA

Data concerning mine operations:

1. Mine History

   a. Status of mine: inactive, abandoned, or producing and any plans for reactivation involving use of tailings ponds or dams
   b. Approximate dates of operation
   c. Type of material recovered, ore grade and assays
   d. Recovery process used
   e. Volume of tailings produced

2. In-house mine reports and maps

3. Published data concerning mine

4. Engineering for tailings area

   a. Original topographic maps

   b. Pre- and postconstruction drawings or topographic maps

5. Air photos (history if possible)

Note: We are planning the field work for spring and would appreciate information pertaining to limited access due to unfavorable weather or bad roads.

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

Duplicate

1. Information from: Dr. P.A. Birdick Optometrist
   Address: 48 2nd St., Yuma, Arizona
2. Mine: Kofa (King of Arizona) 3. No. of Claims - Patented
   Unpatented
4. Location:
5. Sec 12 Tp 2S Range 17W 6. Mining District Kofa
7. Owner: Dr. P.A. Birdick
8. Address: same as above
9. Operating Co.: -
10. Address: -
11. President: - 12. Gen. Mgr.:
13. Principal Metals: GOLD 14. No. Employed:
15. Mill, Type & Capacity:
16. Present Operations: (a) Down ☒ (b) Assessment work ☐ (c) Exploration ☐
    (d) Production ☐ (e) Rate tpd.
17. New Work Planned: On Oct. 19th 1973 I visited Dr. Birdick in his office. He told me the following: He also owns the Rob Roy mine adjacent to the Kofa Mine. Recently there has been three companies interested in his mine with the idea of reworking the dumps for gold: (1) Occidental (Larry Dietzman, 6852 Cerrillos Rd., Santa Fe, N. Mexico) collected samples to verify those that were reported on in a 1945 report; his company decided it was too small. (2) Another unknown company from Calif. looked at it and turned it down and (3) A Mr. Harlow Simpson of Industrial Minerals, 2115 Juno Place, Anaheim, Calif. 92804, made an offer of a 10% royalty to Birdick. Whether this offer went through, I don't know. The company had run assays on the tailings years ago which assayed $1.25/ton when gold was $35./oz. Water is the key to the development of the property.
18. Miscl. Notes:

Date:

(Signature) (Field Engineer)

SPECOMP SERVICES
BOISE LAB
7622 Overland Road
Boise, Idaho 83709
(208) 375-7148

SEMIQUANTITATIVE SPECTROGRAPHIC ANALYSIS

INSTRUMENT: WADSWORTH MOUNTED, JARRELL-ASH, 1.5 METER, DC ARC EMISSION SPECTROGRAPH
Fe, Mg, Ca, Ti, Na, K, Si, Al & P reported in %, all other elements reported in PPM

FILM NO. B-80-190
DATE 6-26-80

	Office No.	Field No.	Au	Ag	Cu	Pb	Zn	Mo	Fe	W	Ni	Co	Cr	Cd	As	Sb	Mn	V	Bi	Sn	Zr	B	Ba	Be	La	Nb	Sc	Sr	Y	Ca	Mg	Ti	Na	K	Si	Al	P
0	Reference	7080-2	N	1	50	70	L	N	1.	N	20	10	100	N	N	N	700	70	N	N	70	N	1000	3	100	N	N	200	N	.1	.05	.2	2.	6.	30.	7.	.1
1	3283	CM-1	N	20	100	700	500	N	1.	N	10	N	20	N	N	N	3000	50	N	N	100	N	700	3	50	N	5	200	10	2.	.3	.2	1.	3.	30.	7.	.1
2	3284	CM-2	N	20	100	700	300	N	1.5	N	10	N	20	N	N	N	3000	70	N	N	50	30	700	7	50	N	5	200	10	2.	.5	.2	1.	3.	30.	7.	.1
3	3285	CM-3	N	50	100	1000	500	10	1.5	N	10	N	20	N	N	N	5000	100	N	N	50	20	700	5	20	N	5	300	10	2.	.3	.2	1.	3.	30.	7.	.1
4	3286	CM-4	N	15	70	700	500	10	1.	N	10	N	30	N	N	N	3000	50	N	N	100	N	700	5	50	N	5	200	15	2.	.3	.2	1.	3.	30.	7.	.1
5	3287	CM-5	N	20	70	700	500	5	1.5	N	10	N	20	N	N	N	3000	100	N	N	100	50	700	5	50	N	5	200	10	2.	.3	.2	1.	2.	30.	5.	.1
6	3288	CM-6	N	15	100	700	500	5	2.	N	10	N	30	N	N	N	5000	100	N	N	100	10	1000	7	70	N	5	300	15	2.	.3	.3	1.	3.	30.	7.	.1
7	3289	CM-7	N	15	70	700	300	5	1.5	N	10	N	20	N	N	N	3000	70	N	N	100	10	700	5	50	N	5	200	15	2.	.3	.2	1.	3.	30.	7.	.1
8	3290	CM-8	N	5	100	1000	500	5	1.5	N	10	N	30	N	N	N	2000	70	N	N	150	10	700	5	70	N	5	300	15	2.	.5	.3	1.	4.	30.	7.	.1
9	3291	CM-9	N	20	70	700	500	5	1.	N	10	N	20	N	N	N	2000	70	N	N	150	15	700	5	70	N	5	200	15	2.	.2	.2	1.	3.	30.	5.	.1
10	3292	CM-10	N	20	150	1000	500	7	1.5	N	10	N	30	N	N	N	5000	70	N	N	100	20	1500	7	50	N	5	500	10	3.	.5	.2	1.	4.	30.	5.	.1
	Lower Detection Limit		10	0.5	5	10	200	5	0.05%	50	5	10	20	20	200	100	10	10	10	10	10	10	10	1	20	10	5	100	10	0.05	0.02%	.001%	0.2%	0.5%	1%	0.5%	.1%

N - Not detected L - Detected, but below limit of determination G - Greater than value shown

Instructions 35.lcm

JOB NO: B-80-154

KEYPUNCH CODE

Kingman, Arizona, May 6, 1940.

To: J. S. Coupal, Director, Phoenix, Ariz.

From: Elgin B. Holt, Kingman, Arizona.

Subject: King of Arizona Mine, Yuma County.

Attention is called to your memorandum of April 25th, stating that Mr. Gregory D. Smith, 306 W. 3rd Street, (Phoenix, I presume), wants information on the King of Arizona mine - production, ownership, kind of ore and present activity.

Ownership: Attached letter from Mr. Bennett of Yuma states this property now owned by William A. Ottis, Colorado Springs, Colorado, etc.

Present activity: None.

Kind of ore: Gold.

History and production: See "Arizona Lode Gold Mines And Gold Mining", Bulletin, 1934, University of Arizona, No. 137. However, will state briefly: The King of Arizona was discovered in 1896 and the following year it was sold to Eps Randolph and Ives, who in 1900, or thereabout, installed a 250 ton cyanide plant which operated profitably for a number of years. Total production about $3,500,000. Shaft was sunk to depth of 750 feet where vein widened from a "few feet to 30 feet" to a total width of 80 feet; but in bottom of mine average mill heads, per Ives, dropped to about $3.00 gold per ton, old price for gold. Mill stopped work after all ore above the 750-ft. level was exhausted. In the early days of operations of Ives and Randolph, average tenor of selectively mined ore was about $40.00 gold per ton; but later, after wide stopes were opened to supply the 250-ton mill, the average is said to have dropped to about $5.00 per ton. Ore was crushed dry thru rolls and leached in huge red-wood cyanide percolation tanks. Tails run about 45¢ gold per ton, old price.

My personal opinion is that deeper sinking might result in the discovery of enormous bodies of low grade gold ore that might pay, if mine could be worked on a large scale, which, of course would mean the installation of a large mill. I first visited this property in 1915 and talked to men who were familiar with history of mine and they all thought the mine had not been given "a break" by former operators - that deeper work would probably result in discovery of important low grade ore bodies, as above stated.

There is no milling ore in the mine at the present time. Again, it would require several hundred thousand dollars to develop the mine deeper and in a large way before any profits could be expected.

A-5

DEPARTMENT OF MINERAL RESOURCES
State of Arizona
MINE OWNER'S REPORT

Date January 6, 1959

1. Mine: King of Arizona. (KOFA)

2. Location: Sec. 12 Twp. 2S Range 17W Nearest Town Yuma Distance 76 miles.
Direction SW Nearest R.R.Sta. is Roll on the Southern Pacific Distance 38 miles.
Road Conditions Good to Yuma. Poor to Roll.

3. Mining District and County: Kofa Mining District. Yuma County.

4. Former Name of Mine: Same always.

5. Owner: Grover J. Duff and The Eagle-Picher Company.
Address: 4250 East Cooper St., Tucson, Arizona.

6. Operator: Not in operation.
Address:

7. Principal Minerals: Gold.

8. Number of Claims: Lode 0 Patented 4 Unpatented 0
Placer 0 Patented 0 Unpatented 0

9. Type of Surrounding Terrain: Metamorphosed sediments, sandstones, conglomerates, alluvium.

10. Geology and Mineralization: Andesite, rhyolite, quartz, granitic dikes, schist, monzonite porphyry dikes,

11. Dimension and Value of Ore Body: Shaft sunk 760 feet.
Vein structure mined or followed for 2300 feet underground on 3 ore lenses.
Veins averaged from 4 to 20 feet wide.

Please give as complete information as possible and attach copies of engineer's reports, shipment returns, maps, etc. if you wish to have them available in this Department's files for inspection by prospective leasors or buyers.

(over)

12. Ore "Blocked Out" or "In Sight": Estimated in excess of 30 0 to .

Ore Probable: 100,000

13. Mine Workings—Amount and Condition:

	No.	Feet	Condition
Shafts	1	760	Several shallow ones.
Raises			
Tunnels			A good many thousand feet.
Crosscuts			
Stopes			

14. Water Supply: Drilled surface wells. 5,000 gals. per 24 hours on 700 ft. level. Detailed water (surface) surveys made in 1944.

15. Brief History: Operations started in 1897 and worked continuously until 1910. U.S. Mint receipts show production of about $3,500,000.00 when gold was priced at $20.67 per oz. Daily output was between 125 and 225 tons per day. Total production in excess of 600,000 tons.

16. Remarks: Has large tailings dump estimated at 550,000 tons with assays up to one-half oz. gold per ton, which can now be recovered by modern methods. Last milling was done in 1910 but improved metallurgical methods have come a long way since that time.

17. If Property for Sale, List Approximate Price and Terms: $30 to $40 thousand dollars depending on royalty basis.

18. Signature: Grover J. Duff.

4250 East Cooper St., Tucson, Arizona.

4250 East Cooper St.,
Tucson, Arizona.

January 6, 1959

Mr Lewis A. Smith, Field Engineer,
Arizona Dept. of Mineral Resources,
Mineral Building, Fairgrounds,
Phoenix, Arizona.

Dear Mr. Smith:

Under date of April 25, 1958 you sent Mr. E. D. Morton, here in Tucson, a 'Mine Owners Report' with the request that he fill it out and return to you. He presumed that you referred to the King Of Arizona Mine in Yuma County.

Mr. Morton's one-half interest in this property is now listed in my name and/he has handed your letter to me for reply. I enclose herewith your report form completed as far as I have time for right now. I have several large files and reports on this property, also a huge colored composite underground colored map which I shall be glad to show anyone who would let me know ahead of time that they wished to see them.here.

Yours very truly,

Grover J. Duff.

Grover J. Duff.

KING OF ARIZONA 1899

This gold-bearing property, known for a time as the Gleason, has been transferred to the King of Arizona Mining and Milling Company, a corporation organized under the laws of the Territory of Arizona, with a capitalization of 5,000,000 shares of a par value of $1 each. This company owns four full claims-the Homestake, the King of Arizona, the Last Hope, and the Mucho Bueno.

The Homestake location covers the chief workings up to this date. There is on this claim a strong vein of gold-bearing quartz. This lode or vein has three well-marked divisions or layers. The croppings of the vein may be followed for some 700 feet of the Homestake shaft to a second opening, known as "The King of Arizona Shaft".

At the commencement of operation, and in order to fully test the ores, 2500 tons of quartz was taken to a 5-stamp mill, which the company owns, on Gila River, a distance of 35 miles south of the mine and 12 miles from Texas Hill. This ore yielded by plate amalgamation about $75,000. The tailings were then treated by cyanide and $30,000 more extracted, leaving in the tailings an average of about $1.50 per ton. After repeated tests it was found that this ore could be treated en masse, after crushing, without running it over the plates or using amalgamation methods. Accordingly it was decided to erect a cyaniding plant at the time.

In February last the company let a contract for the erection of a reduction plant, capable of treating 100 tons of ore each twenty-four hours, and for sinking wells from which a sufficient water supply could be obtained. This work has been successfully prosecuted. Water was found in abundance 1,000 feet below the surface of the ground at a point about 4 miles from the mines; also at another point 1,000 feet below the surface 15 miles distant from the mines. Pipe lines have been laid, pumps erected, and the reduction plant completed, and is now (August 25) being tested and will in all probability be turned over to the company by the contractors about September 1.

Box 5, Cottage City
Flagstaff, Ariz.
July 7, 1945

Dept. Mineral Resources
Chas. H. Dunning, Dir.
Phoenix, Ariz.

DEPT. MINERAL RESOURCES
RECEIVED
JUL 10 1945

Dear Sir:

As to my letter of June 8th and your reply of June 9th (Yuma mine). I have I found some data that may help you help me.

The mine is in the S.H. Mts. in Yuma, Co. was found about 60 years ago, called the King of Arizona, owned by a party in Colorado now. Has been closed down 35 years. Got its water from the Deep Well, several miles south of the mine. Who owns the Deep Well?

What restrictions has the U.S. Game Refuge there now?

Has Sec. of Int. or U.S. Recalomation any? If you were to discover a lode in the said area, what?

Is the summer, too hot now??

What do you find out? Tell me.

George H. Bott

Willcox Ariz
June 8, 1945

Dept. of Mineral
Resources
Phoenix, Ariz.

DEPT. MINERAL RESOURCES
RECEIVED
JUN 9 1945
PHOENIX, ARIZ.

Dear Sir:

I wish to check up on an old mine which was closed in 1910 in Yuma Co. Ariz. What agencies, or people would you say to try, to check and double check, present ownership title, before going to exam. the property (gas, tires?).

Thanks for the help.

George H. Bott

CONFIDENTIAL CRE T REPORT 7514

ROB ROY DEVELOPM T COMPANY

Yuma Credit Bureau
P.O. Box 1071
Yuma, Arizona

Issued to--DS

Investigated--3/28/42

Ordered--3/28/42

Previous Report Issued To You--5/11/36

File Opened--5/11/36

Other Assets and Income--We last gave you report on this firm 5/11/36 and it has been inactive for 4 or 5 years and is just recently becoming active again, reportedly in the production of lead.

Reputation. Also Previous Employment, Employer and Address, How Long, Salary and Reason for Change if Obtainable.--Frank H. Boson, 1300 Kansas Avenue, Kansas City, Missouri, and E.F. Hutt, Summitt, Missouri continue to be president and secretary-treasurer, respectively and the principal stockholders

From 1935 to 1937 the Company spent approximately $80,000. on their equipment and development work and present holdings include a 50 ton mill, miscellaneou tools and a well valued at approximately $20,000. by their local attorney and stockholders, Ray C. Bennett. The claims are located in township 2S, range 7W, which is approximately 82 miles northeast of Yuma in the King of Arizona District, consisting of 8 gold claims known as the Katy Ross Group, unpatente and will continue inactive. Twelve patented lead claims known as the Chicago Group on which the Company is starting activity. We are informed that Mr. Bosch is putting in an additional $15,000 to finance the production of lead.

Jack L. Huffman continues to be Superintendent of the claims from whom they were originally pruchased. The Company has always been on a cash basis as nearly as we can ascertain and this is all the available local information at this early date.

4/11/44 D & B Bennett reports mine not active. Above is otherwise same. Fir hasard. He states building kept locked, has a tin roof. They employ a night watchman. Insurance reduced by underwriters on an inspection in 1937.

ITEMS OF RECORD: 3/59 Lien--Chas. Gilpin dba Gilpins Mech. & Weld. Works vs subj-Labor & Maint.- Lein on mining claims $9,145.31.
10/59 Satisf of above lien - Paid.
1/62 Wayne Baker vs subj. - Quiet Title (A.J. Eddy).
1/62 Lis Pendens - same as above - claims in T2S R17W.
2/62 Wayne Baker vs same - judgement - Quiet Title
2/62 Treasurers Deed from Wayne Baker Tramer Placer Mine.

Kans[illegible] City, Mo.
Loca[illegible]n of Mine:
1 Mi. North of King of Arizona
Mine, 82 Mi. N.E. of Yuma, Arizo.

In twp.2 South, R.17 West G. & S.R.B.M.

Local Representative;
R.C. Bennett, 90 Second St.
Yuma, Arizona.

Mine Manager: Jack L. Huffman.

The property was acquired by the present owners in 1931 from Jack Huffman and comprises 9 claims some of which are patented. It is reported that the original purchase price was $34,000.00, and the property is now held at $ 250,000.00 not for sale. It is reported that there remains $ 7,500.00 unpaid on the purchase price from Jack Huffman. It is further reported that they are carrying approximately $ 800. worth of merchandise at this time, with a value placed on fixtures and equipment of $ 12,000.00. The building comprise a frame mill building approximately 30 x 50 and an assay & office bldg. 16 x 24, the orther buildings in use are not developed. These buildings are protected against fire by 2" service line.

The principal share holders are said to be Frank H. Bosch, of the Bosch Embroidery Co. and E.F. Hutt, Railroad contractor, 408 Walsix Bldg., both of Kansas City, Mo. The Subject-owners are said to be established business men of good moral hazard and financially responsible.

The Manager J.L. Huffman, has been in charge of the property for the past year, is approximately 60 years, Anglo-Saxon, Mo., married. He can be traced in this community for the past 30 years, the latter 15 of which have been largely devoted to mining, prior to which he was an active farmer in the Yuma Valley.

5/11/36

VERNON C. WRIGHT, RECORDER

ROY E. BENNETT, CHIEF DEPUTY

OFFICE OF THE

COUNTY RECORDER

YUMA COUNTY

YUMA, ARIZONA

May 4, 1940

Mr. Elgin B. Holt,
Boz 228, Kingman,

Dear Mr. Holt:

I got your samples away by express O.K. on receipt of your letter and hope you got them on time. Taylor said he was over to the hotel with them in accordance with note I left for him, but that you got up and started too early for him to see you.

In the matter of the inquiry of Mr. Gregory D. Smith, of 306 W. 3rd Street - ~~Phoenix~~ relative to ownership of the King of Arizona property. The property has been held for several years by William A. Ottis of Colorado Springs, Colo. and I believe the ownership is probably vested in the First National Bank of Colorado Springs as Trustee at this time; however that may be a letter to either Mr. Ottis or the bank will get the desired results.

I have had so many inquiries about the King of Arizona and North Star property that I have just about quit giving the names of the owners because the ordinary run of inquiries are made thru curiosity mostly and by those who would not know what to do with the property if it were handed to them on a platter. However, the King of Arizona property at times is available for purchase, and has been under option many times within the last few years.

It is my judgment that the Rob Roy Development Company, J. L. Huffman, Superintendent, whose address is Yuma, Arizona, is the key to the situation at the King of Arizona. Rob Roy people own a part of the Old King of Arizona ground; have a milling plant and some good machinery on their ground, plus a good water well of almost inexhaustible supply just off the King ground. I heard Huffman, just the other day, tell a party that if he made a deal on the King of Arizona that he would take out his ore and mill it for him and gave a very reasonable figure on that operation - much less than an operator could figure on supplying water from some miles distant at 900 feet depth for water and then boosting it up the hill. I would therefore suggest that anyone really wanting to mine and develop the King should first be able to carry their plans into operation, then make arrangements with the Roy Roy to

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do their milling until such time as a larger mill than 50-tons would be desirable and water developed etc.

Well so much for that, and would say that I have recovered from my fishing trip all O.K. but am not cured as yet, because I expect to go out again tomorrow.

By the way I saw an article in a photographic magazine written by a professor in Smith College, in Massachusetts, which said professor makes a hobby of photographing mineral crystals, and the front piece pictured in colors Vanadanite from the Silver district of Yuma County. I have ordered two of these magazines and when they come will save one for you in the preparation of your data, etc. They are beautiful things enlarged to about 15 times in colors.

So, long.

Faithfully,

Roy E Bennett

Kingman, Arizona, May 6, 1940

To: J. S. Coupal, Director, Phoenix, Ariz.

From: Elgin B. Holt, Kingman, Arizona.

Subject: King of Arizona Mine, Yuma County.

Attention is called to your memorandum of April 25th, stating that Mr. Gregory D. Smith, 306 W. 3rd Street, (Phoenix, I presume), wants information on the King of Arizona mine - production, ownership, kind of ore and present activity.

Ownership: Attached letter from Mr. Bennett of Yuma states this property now owned by William A. Ottis, Colorado Springs, Colorado, etc.

Present activity: None.

King of Ore: Gold.

History and production: See "Arizona Lode Gold Mines and Gold Mining", Bulletin, 1934, University of Arizona, No. 137. However, will state briefly: The King of Arizona was discovered in 1896 and the following year it was sold to Eps Randolph and Ives, who in 1900, or thereabout, installed a 250 ton cyanide plant which operated profitably for a number of years. Total production about $3,500,000. Shaft was sunk to depth of 750 feet where vein widened from a "few feet to 30 feet" to a total width of 80 feet; but in bottom of mine average mill heads, per Ives, dropped to about $3.00 gold per ton, old price for gold. Mill stopped work after all ore above the 750-ft. level was exhausted. In the early days of operations of Ives and Randolph, average tenor of selectively mined ore was about $40.00 gold per ton; but later, after wide stopes were opened to supply the 250-ton mill, the average is said to have dropped to about $5.00 per ton. Ore was crushed dry thru rolls and leached in huge red-wood cyanide percolation tanks. Tails run about 45¢ gold per ton, old price.

My personal opinion is that deeper sinking might result in the discovery of enormous bodies of low grade gold ore that might pay, if mine could be worked on a large scale, which, of course would mean the installation of a large mill. I first visited this property in 1915 and talked to men who were familiar with history of mine and they all thought the mine had not been given a break by former operators - that deeper work would probably result in discovery of important low grade ore bodies, as above stated.

There is no milling ore in the mine at the present time. Again it would require several hundred thousand dollars to develop the mine deeper and in a large way before any profits could be expected.

June 9, 1945

Mr. George H. Bott
Willcox, Arizona

Dear Mr. Bott:

Your inquiry of June 8th has been received regarding a mine in Yuma County.

If you will advise us as to the name and location of this mine and any other data you have, we may be able to give you further information, or advise you where to get it.

Yours very truly,

Chas. H. Dunning
Director

CHD:LP

July 11, 1945

Mr. George H. Bott
Box 15, Cottage City
Flagstaff, Arizona

Dear Mr. Bott:

Your letter of July 7 to Mr. Dunning has been handed to me due to the fact that Mr. Dunning is out of town at the present time.

The questions you ask pertaining to the King of Arizona Mine are answered in a couple of letters, copies of which we are enclosing for your information.

With respect to the restrictions of the U. S. Game Refuge and the Secretary of Interior and also the U. S. Reclamation Service I can say that as far as mining operations are concerned there are no restrictions established by either of those departments in that district.

The climate is ideal for winter operations in that district. The summers, as you know, are hot, but mining operations can be carried on very successfully without very much inconvenience.

If there is any other information you wish, we will do our utmost to furnish the same.

Yours very truly,

A. C. Nebeker
Field Engineer

ACN:LP
Enc. 2

Globe, Arizona
Aug. 8th. 1941

Mr. Arthur Houle, E.M.
1303 E. Fifth St.,
Tucson, Arizona

Dear Mr. Houle:

Having at your request completed a preliminary examination of the King of Arizona mine at Kofa, Arizona. I herewith submit the following:

The main X cut or main Adit Tunnel into the mine I found in good condition. Then, going easterly, in main Adit, I found the timbers under the first stope going East, had dropped down, some 3 or 4 feet, timbers here have not been crushed very badly, evidently during stoping under this level the ore was extracted too close to floor of main Adit Tunnel, it was the floor that gave away, not the timber. This condition exists for approximately a distance of 125 ft. Eastward. It is really not a dangerous condition nor will it be very expensive to be put in shape for operating, fortunately, there is very little filling over top of these timbers.

I was able to crawl through the above mentioned place, very easily, and thereby reach the East Bierce X cut, that you were very much interested in having me check in sampling. I found all the Bierce workings open and in good condition. I checked previous sampling in the Bierce East X cut, taking 5 ft. channel cuts across 30 ft. distance - or 6 - 5 ft. cuts in all, the Bierce X cut continued on into the foot wall some 155 ft., past my last or No.6 sample in X cut.

I examined the balance of X cut into foot wall from point of my last sample cut and I found very little indication that looked like what one would consider commercial ore, being of a blocky Andesite and anything but favorable for the condition I found in parts of the mine, such as ore pillars left and this evidently was considered good commercial ore.

At a point, 78 ft. in the Bierce east foot wall X cut, a drift continues easterly for a distance of 180 ft., and bearing to the hanging wall at the 180 ft. point, this drift connects with the main, Easterly Adit Tunnel, from this point on Easterly the main Adit is caved tight, I was unable to proceed. Back Westerly from this Junction of the two drifts some 30 ft., and in the foot wall side of the main Adit East, a Station has been cut and a Winze put down, vertical. This Winze should cut the Vein structure on its dip. The depth of the Winze I could not determine, as all ground around the Station and directly over the Winze was caving.

However, someone in the past had sampled across this vein structure at station, the sample markings were from B/1 to and including B/8, perhaps you can locate same in some of the records in your possession. The ground was too bad for me to check this sampling, I do not consider this block of importance, as it, evidently has been stoped, both overhead and under the main Adit level.

Mr. Bronson, sent a skitch of these workings, I believe. This skitch was made from my notes and will give you a fairly good picture of this aera of the mine. Results of my check sampling as, (R..M.S. Nos. 1 to 6 inclusive) in Bierce East X cut, you now have.

In order to get into the Bierce, Westerly X cut, we were compelled to descend on a rope down through one of the old stopes, this put us on the Westerly side of the point where the main X cut Adit intersects the main Adit drift. This west main Adit drift, I found very much the same as the East side. The timbers dropped down, closing most of the Adit level at this point for a distance of approximately 150 ft. length, very little fill remains over the top of these timbers, this could be caught up with new timbers at not too great expense. The work would mean, to put in new timbers from foot to hanging wall, then lag over, and remove the old timbers, would also require timbers from foot to hanging in drift floor, as before mentioned, they have evidently stoped too close to floor and same has dropped down. This is not a serious condition and as mentioned would not require a great deal of expense and not a dangerous condition in which to work.

To the west of this stope, approximately 100 ft., we find the westerly Bierce foot wall X cut, in a distance of 168 ft. This X cut is also in the blocky Andesite, showing very little mineralization, approximately 30 ft. from face of this X cut a drift was put in both ways, East & West, from the X cut about 50 ft. each way, with no ore showing. Approximately 25 ft. toward main Adit in this X cut another drift was put in both ways, East & West, about same distance as other nothing of importance showing in any of this work. I understand from Mr. Harvey that Mr. Bierce was responsible for all of this work. Mr. Bronson also mailed you a plat of this work taken from my notes. I did not sample any of these workings as they did not look favorable enough to put in the time.

Next, I went to the extreme west face of main Adit Tunnel. Here I found a X cut into foot wall 51 ft. This has been sampled by others, including the Dayton Co., for this reason, I did not take the time of sampling, as you could check from other reports. However, will state this section looked anything but promising and I think you will find very low grade. At a point, 25 ft. in this foot wall X cut, from the main Adit Tunnel, a drift was extended west for 84 ft. along a fracture that also has been sampled by others in the past, at 5 ft. intervals.

My No. 7 sample checks this sampling, at a point approximately 10 ft. from extreme west face of this drift, and also 10 ft. from the raise that goes to the surface on west end, known as the West End Air Shaft. I do not think this section will sample up very well, my No.7 sample should give some indication. I did not attempt to go up the raise as I understand you have sample results of this entire raise.

Coming back easterly from extreme West face, of main Adit Tunnel, a distance of 100 ft., I find a X cut into hanging wall, some 75 ft., this also, has been sampled by the Dayton Co. I found their Nos.90 taken at portal of this X cut, then No.91 taken 20 ft. in the X cut, No. 92 taken in face of this X cut. This work evidently did not show commercial ore value nor does its apperance show any signs. On east from this X cut, a distance of 303 ft., another X cut was put into the hanging wall, a distance of 153 ft., this X cut was also sampled by the Dayton Co. (according to Mr. Harvey). Mr. Harvey identified their sample Nos., I find their Nos. ranging from No. 71, starting at portal of this X cut, to Nos. 82, this last sample being cut in extreme face of X cut. And again, I state, nothing in the entire length of this X cut looks very promising.

From this X cut easterly in main Adit Tunnel, some 200 ft., a short X cut goes into hanging wall and enters a stope. This section has been stoped extensively both easterly, westerly, overhead and under foot. However, these stopes were not as large either in length nor width, as in the main part of the mine where the main Adit X cut enters the vein structure. Evidently the vein split on this west end, as this stoping appears to be on the hang wall vein and the main Adit Tunnel continues on westerly in what they evidently took for the foot wall vein. For a distance of some 650 ft. in length from extreme west face to this X Cut point, no stoping was done on foot wall vein and apperance is very poor for ore.

The above mentioned hang wall stoping, or vein, they stoped out, evidently does not continue on westerly, as the above mentioned 153 ft. hanging wall X cut should have shown the ore. I examined the X cut very closely for this but could find nothing favorable. Approximately 50 ft. westerly from this X cut that enters the hanging wall stope, a station has been cut and a vertical Winze, down, which should cut the foot wall vein. I was unable to get into this Winze, no ladders. Again repeat, all stoping in this aera was done on Hanging wall vein, with very little ore left in place. No X cutting has been done into foot wall for the entire distance, from Bierce westerly foot wall X cut untill the extreme west face of main Adit Tunnel. However, within an aera of 400 ft. in length, you have a 51 ft. X cut into foot wall plus 153 ft. into Hang wall, or 204 ft. of a proven cross section, showing practically very little, if any commercial ore.

? He did not survey & this state it not in order.

My attention was called to the Rhyolite dikes showing on surface, to the extreme west end claim. While some scattering values have been found in the fractures of these Rhyolite dikes, I could not see any importance in them nor would they, in my mind, warrant any development.

Some one in the past put down several holes on the contact, as well as in the fracturing of these dikes and nothing worth while was proven.

I also examined the main vertical or working shaft on the property. I took especial notice of condition of this shaft, a three compartment, the middle compartment being used for working compartment, other two for man way and pipe lines. This shaft is timbered with rough cottonwood timber down to the 100 ft. level station. Then from the 100 ft. level to the top of the 300 ft. level station the shaft is timbered with 8x8 square sawed timbers. All timbers in fine shape, no dry rot present. The tightening of blocking back of timbers and some lagging replaced in a few places, would put the shaft in working condition.

The hang up in shaft over the 300 ft. station evidently was caused from a spill from the 200 ft. level ore pocket. And again, it maybe possible that the Dayton Co. installed a bulk-head over the 300 ft. level station, for reasons not known to us, however, it is now closed tight, I was unable to get on the 300 ft. level.

The work of opening up this condition at the 300 ft. level station would be very little, no place in the shaft could I observe any bad or caved ground back of timbers, at no point did the timber show signs of taking weight. I was much surprised in finding the cottonwood timbers, that were mostly used throughtout the mine, in such a good state of preservation.

The several days put in on tailings sampling, in which I assisted, I wish to state, this sampling was done with utmost care, the results obtained can reliably be taken as accurate. We used a 2 and 3 inch posthole digger for this work, discharging the first 18 in. to 24 in. of all holes, in order to protect against any salting. All holes were put down from 8 ft. to 9 ft. depth, 3 inches wide, sample would be from 50 to 75 lbs., and put on clean canvas, then quartered down to sample size. I checked all holes, put down in tailings, before coming on the job. For a preliminary sampling of that tonnage of tailings, I will say, the work was done in all fairness, both to the property and the party interested in the sampling.

We did not concentrate our sampling to any one particular part of the tailings. We sampled appreximately every dump that represented any tonnage. The angle of all the holes were put down to X cut the strata as it was dumped in pile. Again I repeat, the samples of tailings are a good and fair representation of what the values are in the entire tonnage of tailings.

Note: While at the mine Mr. Bronson mailed to you, rough sketches of all the workings I have described in mine, if you can not recall receiving same or can not locate same, please let me know and I will make and send to you others from my notes.

Very truly yours,

Roy H. Barnes.

Roy H. Barnes,