



## **CONTACT INFORMATION**

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

The following file is part of the

Arizona Department of Mines and Mineral Resources Mining Collection

## **ACCESS STATEMENT**

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

## **CONSTRAINTS STATEMENT**

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

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

## **QUALITY STATEMENT**

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

11/22/89

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: KATE WATERS

ALTERNATE NAMES:

DONA KAY

LA PAZ COUNTY MILS NUMBER: 756

LOCATION: TOWNSHIP 5 N RANGE 15 W SECTION 13 QUARTER C  
LATITUDE: N 33DEG 47MIN 26SEC LONGITUDE: W 113DEG 46MIN 15SEC  
TOPO MAP NAME: UTTING - 15 MIN

CURRENT STATUS: UNKNOWN

COMMODITY:

COPPER  
SILVER  
GOLD LODE

BIBLIOGRAPHY:

ADMMR FILE DATA  
ADMMR KATE WATERS PROPERTY FILE  
KEITH, S.B., 1978 AZBM BULL 192, P. 148  
WORKINGS EXTEND INTO SEC 12; SEC 7 OF 14W

Mr. Charles Robbins, president of Royal Agassiz Mines, Ltd. Canada, came in for information on the Yuma copper mine and the Kate Waters Au property in Yuma County northeast of Vicksburg. Our file information was given him; however, he had a very recent report by a Canadian mining geologist on the Kate Waters property which he allowed us to duplicate.

GW WR  
2-22-74

---

Mr. Charles Skinner, Vancouver, B.C. came in for geologic information on the southern part of the Dome Rock Mountains. He and Charles Robbins are officials of Royal Agassiz Mines Ltd., Cutlass & Highland Mines and are presently drilling the Kate Waters Au claims  $2\frac{1}{2}$  miles NE of Vicksburg. GW WR 3-25-74

---

Went on to the Kate Waters Au-Cu mine of the Highland Star Ltd. and found 4-6" dry holes drilled near the old workings. The holes are about 100 feet apart and appear to be vertical. No one was present. GW WR 4-24-74

---

Kate Waters Property (aka Kay Waters)

sec. 7, T. 6 N., R. 14 W.; sec 12-13, T. 6 N., R. 15 W

Yuma County

reference: Arizona Dept. of Mineral Resources  
Kate Waters Property Yuma County (file)

present owner: Royal Agassiz Mines, Ltd., Beloeil,  
Quebec, Canada

past owners: Ms. Patsy Curry of El Paso, Texas  
Mr. King and Mr. Crawford  
Mr. King  
C. H. Waters

history of the mine:

The minerals (Au, Ag, Cu) in this area were first discovered in the early 1900's. The property has been mined periodically with limited tonnages shipped. The mine was formerly known as the Stafford Gold Mine. In the 1940's the property was owned and operated by C. H. Waters of Vicksburg, Arizona. The property was then known as the C. H. Waters property. Later the property was owned by Mr. King Sr. and Mr. Crawford. When Mr. King Sr. died, his interest passed to his eldest son. Mr. King Jr. bought out Mr. Crawford. Mr. King Jr. was killed in an accident and the claims then passed to his widow, Ms. Patsy Curry of El Paso, Texas. In early 1974 Royal Agassiz Mines Ltd of Beloeil, Quebec, Canada bought the mine.

## Kate Waters Property (cont.)

minerals: Au, Ag, Cu

geology: the claims are on the western flank of the Harcuwas mountain range which is an elongated granite intrusion (Laramide granite). The mineralized areas occur in a folded series of altered sedimentary beds — impure limy material, silicified limestone, quartzite and a highly altered volcanic flow rock. The mineralization is malachite and azurite in the impure limy beds which have an abundance of limonite and hematite.

ore: two outcrops; no estimate of ore reserves made but possibilities are good.

assay: 1974 Arizona Testing Laboratories

gold	0.02 - 0.19 oz per ton	\$2.00 - 19.00
silver	0.05 - 0.45 oz per ton	\$.10 - .90
copper	0.09 - 1.11 oz per ton	

**Report**  
**on the**  
**Kay Water**  
**in**  
**Yuma County, Arizona**

**by**

**C. H. Donaldson, P. Eng.**

**January 25th, 1974**

TABLE OF CONTENTS

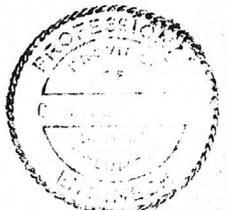
Page

Part A

Introduction . . . . . 1  
Summary and Recommendations. . . . . 1  
    Phase I. . . . . 4  
    Phase II . . . . . 4  
    Phase III. . . . . 4  
Costs. . . . . 5  
    Phase I. . . . . 5  
    Phase II . . . . . 5

Part B

Introduction . . . . . 6  
    Title. . . . . 6  
Location & Access. . . . . 6  
Topography . . . . . 7  
History. . . . . 7  
Work performed . . . . . 7  
    Geological mapping . . . . . 7  
    Geochemical sampling . . . . . 7  
    Geophysical Surveys. . . . . 8  
    Drilling . . . . . 8  
    Surface Trenching. . . . . 8  
    Underground development. . . . . 8  
Geology. . . . . 8  
Ore Reserves . . . . . 9  
Services . . . . . 9  
Conclusions and comments . . . . . 10  
CERTIFICATION. . . . . 11



Part A.

Introduction:

The writer visited and examined the Kay Waters property on January 17th, 1974, with Mr. Tom King of Florence, Arizona. Mr. King worked on this property with his father and brother some years ago. He is agent for his widowed sister-in-law, Ms. Patsy Curry of El Paso, Texas, who is the sole owner of the property.

The scope of this report is to review the previous work done and outline an exploration programme.

Summary and Recommendations:

The Kay Waters property is exceptionally well situated. It is about 2.5 miles from the Santa Fe Railway, first class highway and high tension power line. Water wells in the vicinity supply ample water for all purposes.

Geologically the property is near the western contact of the elongated Larimide granite intrusion in contact with a series of sedimentary beds. The sedimentary beds consist of limey formations, limestone, dolomite, shales, quartzite and what appears to be a highly altered volcanic flow rock.

The values occur in the reddish-brown sedimentary beds as well as the intervening altered volcanics which contain a network of mineralized quartz veinlets. This whole formation is covered by volcanics beyond the outcrops.

Only two of several similar mineralized outcrops have been tested and mined to a limited extent. These are designated as Kay Waters N.E. zone and Kay Waters S.W. zone.



There is evidence of a N.E.-S.W. fault between the two zones with lateral movement of about 1000'. The outcrops are, obviously, the anticlines of the tightly folded formation.

On the Kay Waters North East section, which is N.E. of a fault, a small rounded hill outcrops. The outcrop is 200' x 200' and is composed of limey beds intercalated with a hard, silicified, iron-stained formation with innumerable small mineralized quartz veinlets throughout.

Three samples were taken from this area: KW #4 from an old open cut on the S.E. side of the hill; KW #5 from an old reject dump on the West side of the hill and KW #6 was a general chip sample taken over the whole hill of only the hard silicified, iron stained formation containing the quartz veinlets. The results of the assays are as follows:

	Arizona Testing Laboratories Phoenix, Arizona			Iron King Assay Office Humbolt, Arizona		
	Au oz/ton	Ag oz/ton	Cu%	Au oz/ton	Ag oz/ton	Cu%
KW #4	0.18	0.15	1.11	0.16	0.80	1.32
KW #5	0.06	0.15	0.66	0.035	0.70	0.78
KW #6	0.19	0.10	0.63	0.285	0.20	0.71

There is a discrepancy between the two sets of assays, but even the lower values indicates economic ore for an open cut operation.

On the Kay Waters South West section, which is S.W. of the fault, an elongated hill outcrops from the alluvial flats. This hill shows 5 limey beds striking about NW and dipping SW @ -44° to -46° across a distance of 600'. The



outcrop is visible for about 150' for an area of 90,000 square feet. The veins are from 5' to 10' wide and the intervening material is a highly silicified ironstained metamorphosed rock with quartz veinlets throughout.

Three samples were taken from this zone; KW #1 was taken across 5'3" on No. 2 vein; KW #2 was taken across 8' on No. 5 vein which is badly leached; KW #3 was a general dump sample from rejects of Nos. 3, 4, & 5 veins.

The assay results are as follows:

	Arizona Testing Laboratories Phoenix, Arizona			Iron King Assay Office Humboldt, Arizona		
	Au oz/ton	Ag oz/ton	Cu%	Au oz/ton	Ag oz/ton	Cu%
KW #1	0.02	0.45	0.76	0.02	1.38	0.87
KW #2	0.09	0.05	0.09	0.09	0.27	0.15
KW #3	0.09	0.05	0.13	0.065	0.54	0.20

Again discrepancies are noted between the two assayers.

No samples were taken from the quartz veinlet formation in the S.W. area. However, the sampled sections were badly leached, but the above results are sufficiently encouraging to warrant further testing.

The N.E. zone of 200' x 200' shows about 4000 tons per foot of depth.

The S.W. zone of 600' x 150' shows about 9000 tons per foot of depth, for a total of 13,000 tons/ft. of depth on the outcropping area of the two zones.

In view of the above I recommend the following:



Phase I

- (a) Survey present workings on Kay Waters.
- (b) Commence drilling on the Kay Waters North East with 5 holes: one in the centre of the outcrop and 4 holes on a 100' step-out N, S, E & W, from the central hole. These holes to be drilled by percussion drilling to the water table i.e. approx. 250' to 300' deep. Samples to be taken of 10' sections from surface downward.

Phase II

In the event that Phase I proves satisfactory and encouraging, I recommend the following:

- (x) Cut bulldozer trenches across other similar outcrops - sample and assay.
- (y) Extend percussion drilling in favourable areas of Phase I and if (x) of Phase II is encouraging, drill such textured outcrops.
- (z) Diamond drilling: diamond drill near the good percussion holes to verify results and extend the diamond-drill holes below the water level to the limit of values or the limit of the drill whichever comes first.

Phase III

In the event that Phase II is successful there would be sufficient drill-proven ore to consider production.

At this stage shafts would probably be necessary to obtain fresh ore for mill testing.

However, when Phase II is completed satisfactorily, a separate report will be necessary to cover Phase III.



Costs:

Phase I

Surveying & mapping	1,000
Percussion drilling 2700' @ 5.00/ft	13,500
Site Preparation: bulldozer	
20 hrs @ \$30	600
Engineering & supervision	2,000
Sampling & labour 30 days @ \$30	900
Assaying 270 samples @ \$10	2,700
Travel & room & board	<u>1,300</u>
	22,000
Contingencies 15%      say -	<u>3,000</u>
	25,000

\$25,000

Phase II

Percussion drilling 3000' @ 5.00	\$15,000
Diamond drilling 5000' @ 10.00	50,000
Bulldozing 100 hrs @ 30.00	3,000
Engineering & supervision	4,000
Sampling & labour	2,000
Assaying	5,000
Travel, room & board	<u>2,000</u>
	81,000
Contingencies 15%	<u>12,000</u>
	93,000

93,000

Phase I & II      Total      \$118,000



Part B.

Introduction:

The property is known as the Kay Waters mine. The property is owned by Ms. Patsy Curry of El Paso, Texas.

Title: The claims are recorded at the Yuma recording office, Arizona, as follows:

Kay Waters Group:	<u>Name</u>	<u>Book</u>	<u>Page</u>
✓	Loralie	17	165
✓	Stafford	26	433
✓	Moore	26	444
✓	Western Bell	26	445
✓	Western Bound	26	446
✓	Ora Plata	26	447
✓	Waters	26	448
✓	Edwin B. Jones	26	449
✓	W. J. B.	26	450
✓	Mule	40	223
✓	Go Lucky	40	224

Total 11 claims or approx. 220 acres.

Some of the claims were checked on the ground and were in order. The recording in Yuma was not checked. The titles should be searched and verified by either a Title Company or an attorney prior to work commencement. The Claims are not patented but are held by location and assessment work.

Location & Access:

The claim group is located at approx. 30° 40' N. Latitude and 113° 45' West longitude. More specifically:



Kay Waters in Township 6N, Range 14W Section 7 and R15W  
Section 12 & 13.

From the village of Salome on highway 60, access to  
the claims is about 4 miles West on highway 60, thence 11  
miles North toward Parker on highway 72 to a cattleguard,  
thence Eastward across the Santa Fe Railway tracks along  
a good dirt road for 2.5 miles to the Kay Waters group.

Topography: The Kay Waters group of claims covers a  
group of low hills rising from the flat valley floor.

History:

The minerals in the area were discovered around the  
beginning of the century.

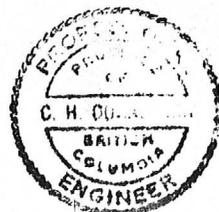
The Kay Waters deposit has been mined at various times  
over the years, but only limited tonnages have apparently  
been shipped. The foundations of a Huntington mill may be  
seen on Kay Waters South, but only a small amount of tail-  
ings remain.

Both properties were owned by Mr. King Sr. and his  
partner, Mr. Crawford. On Mr. King Sr.'s death, his interest  
passed to his eldest son (Tom's brother). Mr. King Jr.  
bought out his father's partner, Mr. Crawford, and when  
Mr. King Jr. was killed in an accident the claims passed  
to his widow, the present owner.

Work performed.

Geological mapping - nil

Geochemical sampling - nil



Geophysical Surveys: nil

Drilling: nil

Surface Trenching: Trenches were put in on the property many years ago.

Underground development: On the Kay Waters incline shafts were put in on both showings. Some drifting was done and some stoping.

Allowance has been made in the recommendations costs to survey the old workings.

The costs involved in the above are unknown and could not be estimated today, due to the changes in costs.

Geology:

The claim group is situated on the Western flank of the Harcuvar mountain range, which is an elongated granite intrusive. The intrusive is called the Larimide granite of the Cretaceous - Tertiary Age.

The intrusive is shown as TKg on the U.S.G.S. geological map of the State. This classification includes granite, quartz, monzonite, granodiorite, quartz, diorite and some porphyry equivalents of these rocks. It is noted that most of the major copper deposits in Southern Arizona are located beside or near this rock classification.

The intrusive at Kay Waters is a light grey quartz monzonite. Concurrent with the intrusion, the sedimentary overlying beds were metamorphosed, folded and faulted.

The Kay Waters mineralized areas occur in a folded series of altered sedimentary beds. The beds consist of

impure limey material, silicified limestone, quartzite and a highly altered volcanic flow rock. A N-S fault cut through the claim group separating the South Kay Waters on the S.W. side of the fault from the North Kay Waters on the N.E. side.

The mineralization is malachite and azurite in the impure limey beds together with an abundance of limonite and hematite. In the intervening formations the mineralization is an iron-staining of the rock which is cut by innumerable small quartz veinlets mineralized with limonite and hematite.

#### Ore Reserves:

No ore reserves as such can be stated on the property, but possibilities are good.

The indications are that on the two outcrops, open cutting of economic ore amounting to about 4000 tons per foot of depth on the N.E. zone and 9000 tons per ft. of depth on the S.E. zone with good possibilities of additional ore on the extensions of the outcrops and in others still to be tested.

#### Services:

The area is well supplied with all types of mining services such as drillers of all types, engineering, geophysical and contracting companies, etc., etc.

The properties are in close proximity to highways, a railway, power lines, water wells and supply centres.

Experienced labour is available from nearby towns.

Conclusions and comments:

From the above it is apparent that the property is ideally situated.

Access is extremely good with roads throughout the property.

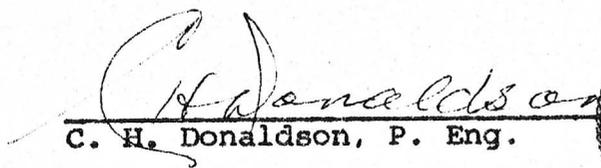
The group has the potential of becoming an open cut operation which can be quickly and relatively cheaply tested.

The mineralization could possibly extend well beyond the visible outcrop areas.

There are other possibilities in the area which could warrant investigation as exploration, as outlined, proceeds.

No time should be wasted in exploring this property, as production at the current high metal prices could be very lucrative.

Respectfully submitted

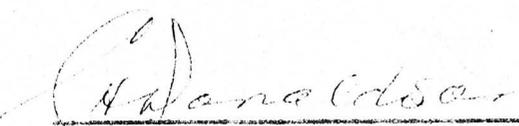
  
C. H. Donaldson, P. Eng.



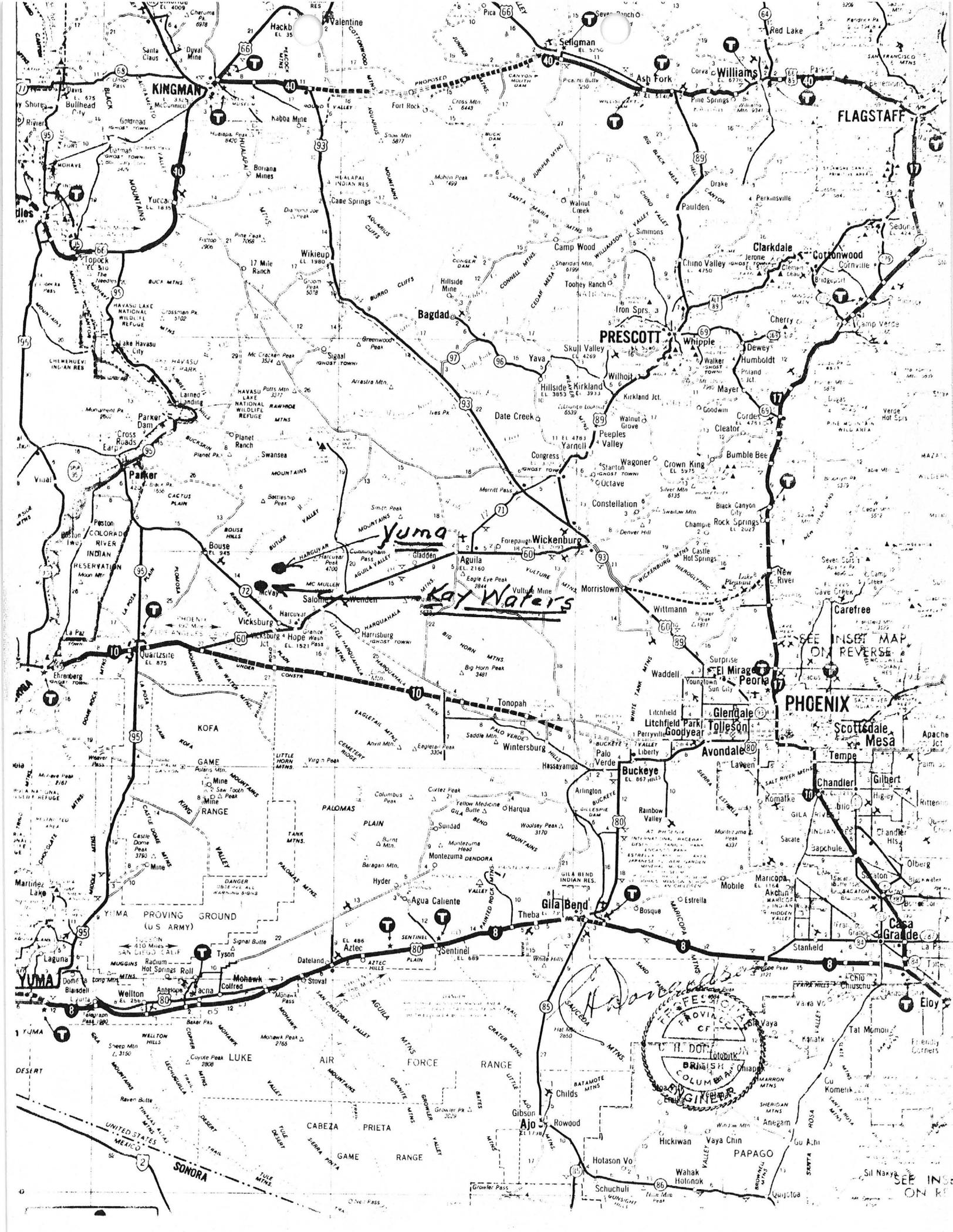
CERTIFICATION

I, CLARENCE HENRY DONALDSON of 101 Brentwood Apartments,  
2050 Barclay Street, Vancouver, B. C. certify the following:

1. That I am a registered Professional Engineer in the  
Association of Professional Engineers of B. C.
2. That I have had experience in all phases of mining and  
exploration in Canada, U.S.A., Mexico, Australia and  
the Fiji Islands, with some work in Scotland and Spain.
3. I have no direct nor indirect interest in the property.
4. I have no direct nor indirect interest, nor do I expect  
to receive any interest, direct or indirect in the  
properties or the securities of Highland Star Mines  
Ltd (N.P.L.), Vancouver, B. C., Canada or its affili-  
ates.
5. That this report is based on my personal examination of  
the property and information received from Mr. Tom King,  
agent for the owner, his sister-in-law.

  
C. H. Donaldson P. Eng.





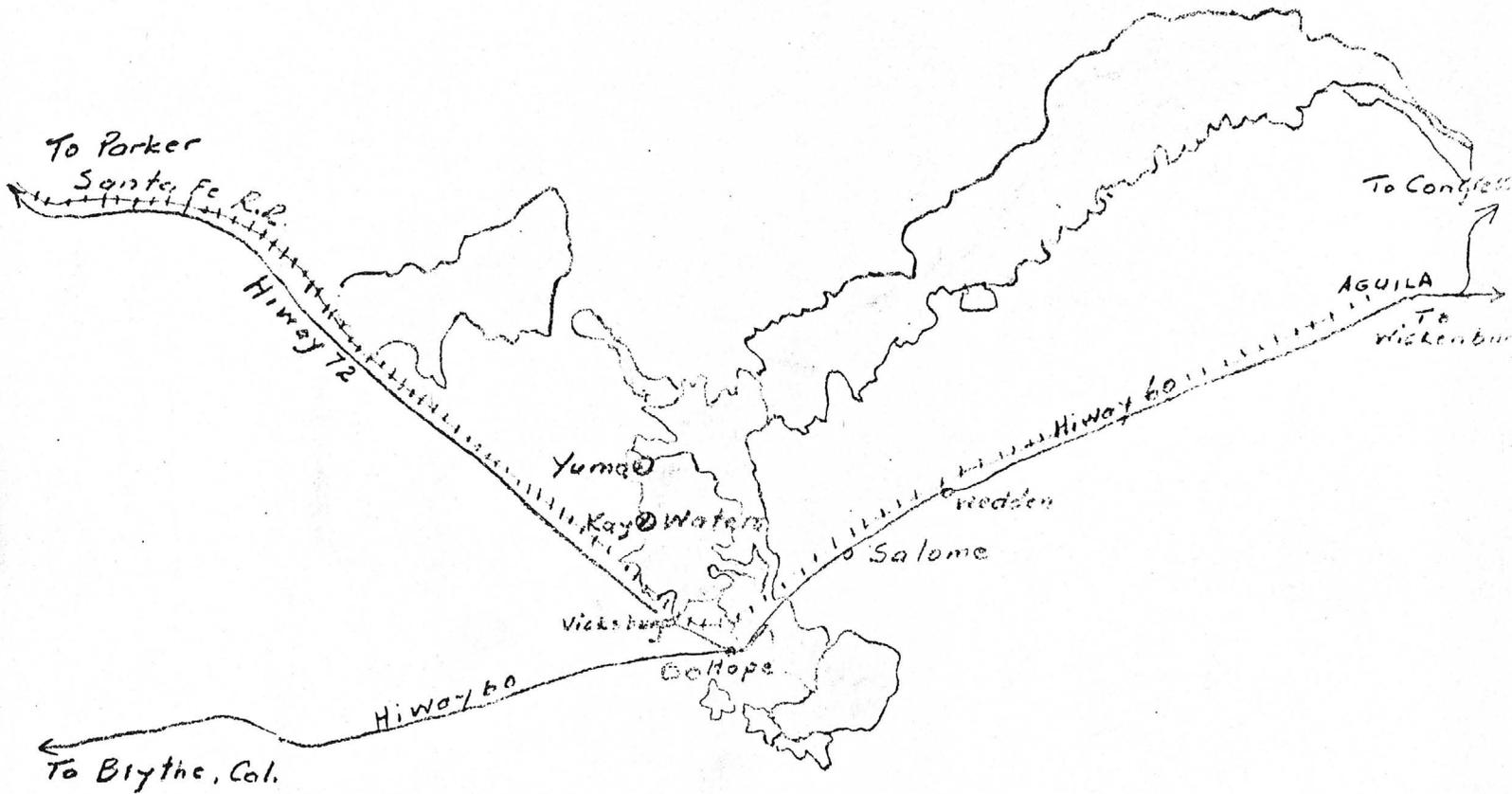
Yuma  
Kay Waters



SEE INSET MAP ON REVERSE

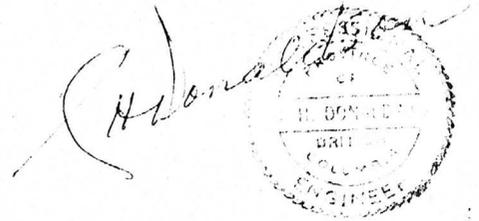
SEE INSET ON REVERSE

- Geology -  
 Taken from U.S.G.S. map  
 ==



Scale 1" = Approx 8 miles

- M2S - Mesozoic Sedimentary rocks.
- TKG - Intrusive
- PEGn Metamorphosed Sediments (Gneiss).
- Alluvium



# ASSAY CERTIFICATE

BOX 14 — PHONE 632-7410

HUMBOLDT, ARIZONA 86329

ASSAY  
MADE  
FOR

Clair Donaldson

DESCRIPTION	oz/ton Au	oz/ton Ag	%	% Fe	% Pb	% Zn	% Cu
1	1.00	1.00					
2	1.00	1.00					
3	1.00	1.00					
4	1.00	1.00					
5	1.00	1.00					
6	1.00	1.00					
7	1.00	1.00					
8	1.00	1.00					
9	1.00	1.00					
10	1.00	1.00					
11	1.00	1.00					
12	1.00	1.00					
13	1.00	1.00					
14	1.00	1.00					
15	1.00	1.00					
16	1.00	1.00					
17	1.00	1.00					
18	1.00	1.00					
19	1.00	1.00					
20	1.00	1.00					
21	1.00	1.00					
22	1.00	1.00					
23	1.00	1.00					
24	1.00	1.00					
25	1.00	1.00					
26	1.00	1.00					
27	1.00	1.00					
28	1.00	1.00					
29	1.00	1.00					
30	1.00	1.00					
31	1.00	1.00					
32	1.00	1.00					
33	1.00	1.00					
34	1.00	1.00					
35	1.00	1.00					
36	1.00	1.00					
37	1.00	1.00					
38	1.00	1.00					
39	1.00	1.00					
40	1.00	1.00					
41	1.00	1.00					
42	1.00	1.00					
43	1.00	1.00					
44	1.00	1.00					
45	1.00	1.00					
46	1.00	1.00					
47	1.00	1.00					
48	1.00	1.00					
49	1.00	1.00					
50	1.00	1.00					



ASSAYER

CHARLES

# ARIZONA TESTING LABORATORIES

A DIVISION OF CLAUDE E. McLEAN & SON LABORATORIES, INC.  
817 WEST MADISON ST. PHOENIX, ARIZONA 85007

PHONE 254-6181

For Mr. Clair Donaldson

Date January 22, 1974

Sample of Ore

Received: 1-18-74

Submitted by: -----

## ASSAY CERTIFICATE

Gold figured at \$ 100.00 per ounce

Silver figured at \$ 2.00 per ounce

LAB. NO.	IDENTIFICATION	GOLD		SILVER		PERCENTAGES	
		OZ. PER TON	VALUE	OZ. PER TON	VALUE	COPPER	
5976	KW #1	0.02	\$ 2.00	0.45	\$0.90	0.76	%
	KW #2	0.09	9.00	0.05	0.10	0.09	
	KW #3	0.09	9.00	0.05	0.10	0.13	
	KW #4	0.18	18.00	0.15	0.30	1.11	
	KW #5	0.06	6.00	0.15	0.30	0.66	
	KW #6	0.19	19.00	0.10	0.20	0.63	

Respectfully submitted,

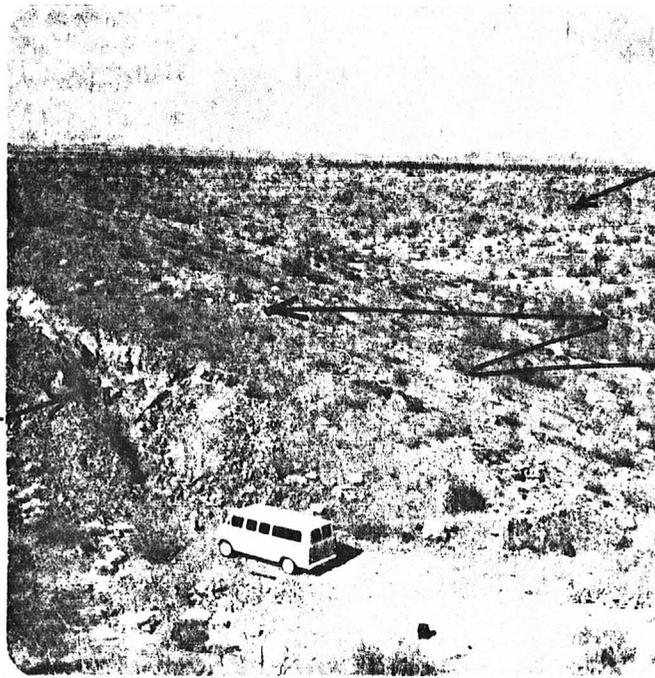
ARIZONA TESTING LABORATORIES

Claude E. McLean, Jr.

Claude E. McLean, Jr.



KEY WATERS N.E. Zone.



similar, untested  
formations  
Looking N

- Mineralized  
Hill - Sample KW6

Sample  
KW4



Sample  
KW5

Looking N

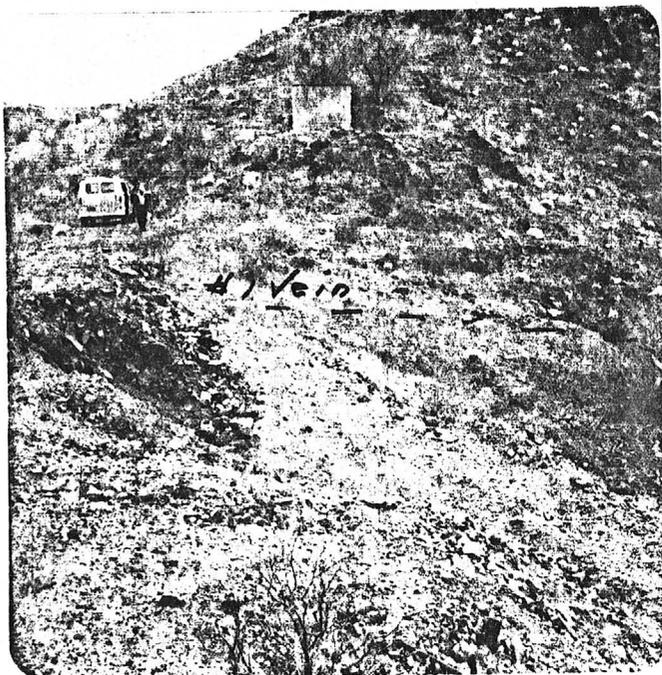
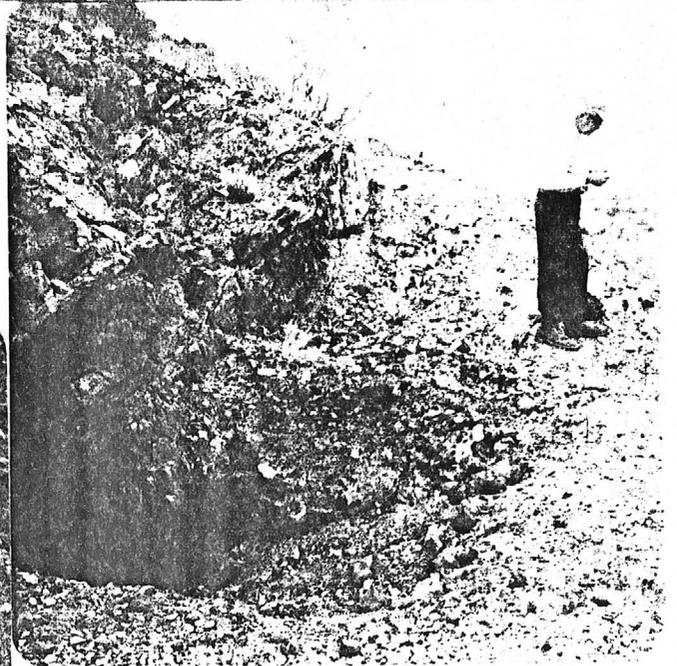


Looking N.W.

RAY WATERS S.W.



Looking N.E.



#5 Vein at "A" - Winze  
Sample KW

*(Handwritten signature)*



Looking South

MW-20

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
OWNERS MINE REPORT

Date June 13, 1940

Mine - C. H. Waters Property

Mining District & County - Ellsworth Dist.  
Yuma County

Location - 4 miles northerly from  
Vicksburg, Ariz.  
Pavement  $2\frac{1}{2}$  miles, rest  
graded road.

Former Name - Stafford Gold Mine Co.

Owner  C. H. Waters

Address - Vicksburg, Arizona

Operator - C. H. Waters

Address - Vicksburg, Arizona

President

Gen. Mgr.

Mine Supt.

Mill Supt.

Principal Metals - Gold, Copper, Silver

Men Employed - Two

Production Rate

Mill: Type & Cap.

Power: Amt. & Type.

Operations: Present - Mining shipping ore.

Operations Planned

Number Claims, Title, etc. - 16 claims held by location.  
Work done for this year.

Description: Topography & Geography

Mine Workings: Amt. & Condition - One shaft 86 ft. deep, drifts at bottom 120 ft. workings in good condition. Vein 6 to 12 ft. Shaft 50 ft., 30 ft. of drifting and 100 ft. crosscut. 300 ft. of opencuts from which 19 cars of ore have been shipped averaging  $1/2$  oz. in gold  $2\frac{1}{2}$  per cent copper and some silver. Ore exposed on all claims. One shallow shaft (12') shows 6 inches of ore.

Geology & Mineralization - The ore veins occur in a schist very much solidated and consist of quartz carrying values in gold, copper and silver. In some veins the values are gold, silver and lead. The lead occurring as Galena, Wulfenite and Vanadinite and with proper concentration should prove of a considerable commercial value.

Ore: Positive & Probable, Ore Dumps, Tailings - Prominent engineer says one whole hill will mill. This is the hill from which 19 cars have been shipped.

Vein Width, Length, Value, etc. - One ore body 86 ft. deep, 120 ft. drift values from \$8 to \$18.

Mine, Mill Equipment & Flow Sheet

Road Conditions, Route - From Vicksburg take highway No. 72 towards Parker,  $2\frac{1}{2}$  miles. Cross railroad track and follow graded road to mine.

Water Supply - Have used 25,000 gallons per 24 hours over a period of two months. Pumping plant and 5,000 gallon tank.

Brief History

Special Problems, Reports Filed

Remarks

If property for sale: Price, terms and address to negotiate - Total price \$75,000.  
Terms subject to agreement.  
C. H. Waters, Vicksburg, Arizona.

SIGNED - C. H. Waters

MW 20

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
OWNERS MINE REPORT

Date June 13, 1940

1. Mine C. H. Waters property
2. Mining District & County Ellsworth, Yuma Co.
3. Former name Stafford Gold Mine Co.
4. Location 4 miles northerly from Vicksburg, Ariz. Pavement  $2\frac{1}{2}$  miles, rest graded road.
5. Owner C. H. Waters
6. Address (Owner) Vicksburg, Arizona.
7. Operator "
8. Address (Operator) " "
9. President
10. Gen. Mgr.
11. Mine Supt.
12. Mill Supt.
13. Principal Metals Gold, Copper, Silver
14. Men Employed Two
15. Production Rate
16. Mill: Type & Cap.
17. Power: Amt. & Type
18. Operations: Present Mining shipping ore
19. Operations Planned
20. Number Claims, Title, etc. 16 claims held by location. Work done for this year.
21. Description: Topography & Geography
22. Mine Workings: Amt. & Condition One shaft 86 ft. deep, drifts at bottom 120 ft. workings in good condition. Vein 6 to 12 ft. Shaft 50 ft., 30 ft. of drifting and 100 ft. crosscut. 300 ft. of open cuts from which 19 cars of ore have been shipped averaging one half ounce in gold, two and one half percent copper and some silver. Ore exposed on all claims. One shallow shaft (12') shows 6' of ore.

(over)

23. **Geology & Mineralization** The ore veins occur in a schist very much soliditated and consist of quartz carrying values in gold, copper and silver. In some veins the values are gold, silver and lead. The lead occurring as Galena, Wulfenite and Vanadinite and with proper concentration should prove of a considerable commercial value. One vein is from 6 to 12 feet in width.

24. **Ore: Positive & Probable, Ore Dumps, Tailings** Prominent engineer says one whole hill will mill. This is the hill from which 19 cars have been shipped.

24-A **Vein Width, Length, Value, etc.** One ore body 86' deep, 120' drift values from \$8.00 to \$18.00/

25. **Mine, Mill Equipment & Flow Sheet**

26. **Road Conditions, Route** From Vicksburg take highway #72 towards Parker,  $2\frac{1}{2}$  miles. Cross railroad track and follow graded road to mine.

27. **Water Supply** Have used 25000 gallons per 24 hours over a period of two months. Pumping plant and 5000 gallon tank.

28. **Brief History**

29. **Special Problems, Reports Filed**

30. **Remarks**

31. **If property for sale: Price, terms and address to negotiate.** Total price \$75,000.00. Terms subject to agreement. C. H. Waters, Vicksburg, Arizona.

32. **Signed**..... C. H. Waters.

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

8207

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

Date 6-13-1940

- M/W-20
1. Mine C.H. Waters property
  2. Location 4 miles northerly from Vicksburg, Arizona  
Pavement 2 1/2 miles. rest graded
  3. Mining District & County Ellsworth, Yuma,
  4. Former name Stafford Gold Mine Co.
  5. Owner C.H. Waters ✓
  6. Address (Owner) Vicksburg, Arizona
  7. Operator C.H. Waters
  8. Address (Operator) Vicksburg, Arizona.
  9. President, Owing Co.
  - 9A. President, Operating Co. ✓
  10. Gen. Mgr.
  14. Principal Minerals Gold Copper silver ✓
  11. Mine Supt.
  15. Production Rate
  12. Mill Supt.
  16. Mill: Type & Cap.
  13. Men Employed Two
  17. Power: Amt. & Type
  18. Operations: Present Mining shipping ore

19. Operations: Planned

20. Number Claims, Title, etc.-16 claims held by location. Work done for this year.

21. Description: Topography & Geography

Gold mines, principally the Stafford property, have produced about \$25,000 since 1926. M/W-20 7/30/28

22. Mine Workings: Amt. & Condition

One shaft 86ft deep, drifts at bottom 120ft. workings in good condition. Vein 6 to 12 feet. Shaft 50 ft. 30 ft. of drifting & 100 ft cross cut. 300ft of open cuts from which 19 cars of ore have been shipped averaging one half ounce in gold two and one half percent copper and some silver.

**23. Geology & Mineralization**

The ore veins occur in a shist verry much (Soliditated) and consist of quartz carrying values in gold, copper and silver. In some veins the values are gold, silver & lead. The lead occuring as Galena, Wulfenite and Vanadinite and with proper concentration should prove of a considerable commercial value. One vein is from 6 to 12 feet in with.

**24. Ore: Positive & Probable, Ore Dumps, Tailings**

Prominent engineer says one whole hill will mill. This is the hill from which 19 cars have been shipped,

**24A. Dimensions and Value of Ore body**

One ore body 86' deep. 120' drift  
values from \$8.00 to \$18.00

**25. Mine, Mill Equipment & Flow-Sheet**

**26. Road Conditions, Route**

From Vicksburg take highway # 72-towards Parker, 2 1/2 miles. Cross railroad track and follow graded road to mine.

**27. Water Supply** Have used 25000 gallons per 24 hours over a period of two months.  
Pumping plant and 5000 gallon tank.

**28. Brief History**

**29. Special Problems, Reports Filed**

**30. Remarks**

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

Total price \$75000.00. Terms subject to agreement.  
C.H. Waters, Vicksburg, Arizona

32. Signature.....

*C.H. Waters*

33. Use additional sheets if necessary.

Mr. Charles Robbins, president of Royal Agassiz Mines, Ltd. Canada, came in for information on the Yuma copper mine and the Kate Waters Au property in Yuma County northeast of Vicksburg. Our file information was given him; however, he had a very recent report by a Canadian mining geologist on the Kate Waters property which he allowed us to duplicate. GW WR  
2-22-74

---

Mr. Charles Skinner, Vancouver, B.C. came in for geologic information on the southern part of the Dome Rock Mountains. He and Charles Robbins are officials of Royal Agassiz Mines Ltd., Cutlass & Highland Mines and are presently drilling the Kate Waters Au claims  $2\frac{1}{2}$  miles NE of Vicksburg. GW WR 3-25-74

---

Went on to the Kate Waters Au-Cu mine of the Highland Star Ltd. and found 4-6" dry holes drilled near the old workings. The holes are about 100 feet apart and appear to be vertical. No one was present. GW WR 4-24-74

---

Kate Waters Property (aka Kay Waters)

sec. 7, T. 6 N., R. 14 W.; sec 12-13, T. 6 N., R. 15 W

Yuma County

reference: Arizona Dept. of Mineral Resources  
Kate Waters Property Yuma County (file)

present owner: Royal Agassiz Mines, Ltd., Beloeil,  
Quebec, Canada

past owners: Ms. Patsy Curry of El Paso, Texas  
Mr. King and Mr. Crawford  
Mr. King  
C. H. Waters

history of the mine:

The minerals (Au, Ag, Cu) in this area were first discovered in the early 1900's. The property has been mined periodically with limited tonnages shipped. The mine was formerly known as the Stafford Gold Mine. In the 1940's the property was owned and operated by C. H. Waters of Vicksburg, Arizona. The property was then known as the C. H. Waters property. Later the property was owned by Mr. King Sr. and Mr. Crawford. When Mr. King Sr. died, his interest passed to his eldest son. Mr. King Jr. bought out Mr. Crawford. Mr. King Jr. was killed in an accident and the claims then passed to his widow, Ms. Patsy Curry of El Paso, Texas. In early 1974 Royal Agassiz Mines Ltd of Beloeil, Quebec, Canada bought the mine.

## Kate Waters Property (cont.)

minerals : Au, Ag, Cu

geology : the claims are on the western flank of the Harcuwas mountain range which is an elongated granite intrusive (Laramide granite). The mineralized areas occur in a folded series of altered sedimentary beds — impure limy material, silicified limestone, quartzite and a highly altered volcanic flow rock. The mineralization is malachite and azurite in the impure limy beds which have an abundance of limonite and hematite.

ore: two outcrops; no estimate of ore reserves made but possibilities are good.

assay: 1974 Arizona Testing Laboratories

gold	0.02 - 0.19 oz per ton	\$2.00 - 19.00
silver	0.05 - 0.45 oz per ton	\$.10 - .90
copper	0.09 - 1.11 oz per ton	

MW-20

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
OWNERS MINE REPORT

Date June 13, 1940

Mine - C. H. Waters Property

Mining District & County - Ellsworth Dist.  
Yuma County

Location - 4 miles northerly from  
Vicksburg, Ariz.  
Pavement 2 1/2 miles, rest  
graded road.

Former Name - Stafford Gold Mine Co.

Owner - C. H. Waters

Address - Vicksburg, Arizona

Operator - C. H. Waters

Address - Vicksburg, Arizona

President

Gen. Mgr.

Mine Supt.

Mill Supt.

Principal Metals - Gold, Copper, Silver

Men Employed - Two

Production Rate

Mill: Type & Cap.

Power: Amt. & Type.

Operations: Present - Mining shipping ore.

Operations Planned

Brief History

Number Claims, Title, etc. - 16 claims held by location.

Work done for this year.

Remarks

Description: Topography & Geography

Mine Workings: Amt. & Condition -

One shaft 86 ft. deep, drifts at bottom 120 ft.  
workings in good condition. Vein 6 to 12 ft.  
Shaft 50 ft., 30 ft. of drifting and 100 ft.  
crosscut. 300 ft. of opencuts from which 19 cars  
of ore have been shipped averaging 1/2 oz. in gold  
2 1/2 per cent copper and some silver. Ore exposed  
on all claims. One shallow shaft (12') shows  
6 inches of ore.

Geology & Mineralization - The ore veins occur in a schist very much solidated and consist of quartz carrying values in gold, copper and silver. In some veins the values are gold, silver and lead. The lead occurring as Galena, Wulfenite and Vanadinite and with proper concentration should prove of a considerable commercial value.

Ore: Positive & Probable, Ore Dumps, Tailings - Prominent engineer says one whole hill will mill. This is the hill from which 19 cars have been shipped.

Vein Width, Length, Value, etc. - One ore body 86 ft. deep, 120 ft. drift values from \$8 to \$18.

Mine, Mill Equipment & Flow Sheet

Road Conditions, Route - From Vicksburg take highway No. 72 towards Parker, 2 1/2 miles. Cross railroad track and follow graded road to mine.

Water Supply - Have used 25,000 gallons per 24 hours over a period of two months. Pumping plant and 5,000 gallon tank.

Brief History

Special Problems, Reports Filed

Remarks

If property for sale: Price, terms and address to negotiate - Total price \$75,000. Terms subject to agreement. C. H. Waters, Vicksburg, Arizona.

SIGNED - C. H. Waters

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA

MINE OWNER'S REPORT

Date 6-13-1940

- MW-20
1. Mine C.H.Waters property
  3. Mining District & County Ellsworth, Yuma,
  4. Former name Stafford Gold Mine Co.
  5. Owner C.H.Waters
  7. Operator C.H.Waters
  9. President, Owing Co.
  10. Gen. Mgr.
  11. Mine Supt.
  12. Mill Supt.
  13. Men Employed Two
  18. Operations: Present Mining shipping ore

2. Location 4 miles northerly from Vicksburg, Arizona  
Pavement 2 1/2 miles. rest graded road
6. Address (Owner) Vicksburg, Arizona
8. Address (Operator) Vicksburg, Arizona.
- 9A. President, Operating Co.
14. Principal Minerals Gold Copper silver
15. Production Rate
16. Mill: Type & Cap.
17. Power: Amt. & Type

19. Operations: Planned

20. Number Claims, Title, etc.-16 claims held by location. Work done for this year.

21. Description: Topography & Geography

Gold mines, principally the Stafford property, have produced about \$25,000 since 1926. MW-20 7/30/28

22. Mine Workings: Amt. & Condition

One shaft 86ft deep, drifts at bottom 120ft. workings in good condition. Vein 6 to 12 feet. Shaft 50 ft. 30 ft. of drifting & 100 ft cross cut. 300ft of open cuts from which 19 cars of ore have been shipped averaging one half ounce in gold two and one half percent copper and some silver. Ore exposed on all claims. One shallow shaft (12') shows 6' of ore.

(over)

23. Geology & Mineralization

The ore veins occur in a shist very much solidated and consist of quartz carrying values in gold, copper and silver. In some veins the values are gold, silver & lead. The lead occurring as Galena, Wulfenite and Vanadinite and with proper concentration should prove of a considerable commercial value. One vein is from 6 to 12 feet in with.

24. Ore: Positive & Probable, Ore Dumps, Tailings

Prominent engineer says one whole hill will mill. This is the hill from which 19 cars have been shipped,

24A. Dimensions and Value of Ore body

One ore body 86' deep. 120' drift values from \$8.00 to \$18.00

25. Mine, Mill Equipment & Flow-Sheet

26. Road Conditions, Route

From Vicksburg take highway # 72-towards Parker, 2 1/2 miles. Cross railroad track and follow graded road to mine.

27. Water Supply Have used 25000 gallons per 24 hours over a period of two months. Pumping plant and 5000 gallon tank.

28. Brief History

29. Special Problems, Reports Filed

30. Remarks

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

Total price \$75000.00. Terms subject to agreement. C.H. Waters, Vicksburg, Arizona

32. Signature *C.H. Waters*

33. Use additional sheets if necessary.

1. Mine  
2. Mining District & County  
3. Former name  
4. Owner  
5. Operator  
6. President, Owing Co.  
7. Gen. Mgr.  
8. Mine Sup.  
9. Mill Sup.  
10. Men Employed  
11. Operations: Present Mining  
12. Operations: Planned  
13. Number Claims, Title, etc.  
14. Location, Work done for this year.  
15. Description: Topography & Geography  
16. Mine Workings: Amt. & Condition  
17. One sheet 300 ft. x 400 ft. at bottom 100 ft. workings in good condition. Total 100 sheets 30 ft. x 40 ft. at bottom 100 ft. 3000 ft. of open cuts.  
18. been shipped everywhere one half mile in all two and one half miles copper and silver ore exposed on all sides.

MW-20

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
OWNERS MINE REPORT

Date June 13, 1940

- 1. Mine C. H. Waters property
- 2. Mining District & County Ellsworth, Yuma Co.
- 3. Former name Stafford Gold Mine Co.
- 5. Owner C. H. Waters
- 7. Operator "
- 9. President
- 11. Mine Supt.
- 13. Principal Metals Gold, Copper, Silver
- 15. Production Rate
- 17. Power: Amt. & Type
- 18. Operations: Present Mining shipping ore
- 4. Location 4 miles northerly from Vicksburg, Ariz. Pavement 2 1/2 miles, rest graded road.
- 6. Address (Owner) Vicksburg, Arizona.
- 8. Address (Operator) " "
- 10. Gen. Mgr.
- 12. Mill Supt.
- 14. Men Employed Two
- 16. Mill: Type & Cap.

19. Operations Planned

20. Number Claims, Title, etc. 16 claims held by location. Work done for this year.

21. Description: Topography & Geography

22. Mine Workings: Amt. & Condition One shaft 86 ft. deep, drifts at bottom 120 ft. workings in good condition. Vein 6 to 12 ft. Shaft 50 ft., 30 ft. of drifting and 100 ft. crosscut. 300 ft. of open cuts from which 19 cars of ore have been shipped averaging one half ounce in gold, two and one half percent copper and some silver. Ore exposed on all claims. One shallow shaft (12') shows 6' of ore.

(over)

23. **Geology & Mineralization** The ore veins occur in a schist very much soliditated and consist of quartz carrying values in gold, copper and silver. In some veins the values are gold, silver and lead. The lead occuring as Galena, Wulfenite and Vanadinite and with proper concentration should prove of a considerable commercial value. One vein is from 6 to 12 feet in width.

24. **Ore: Positive & Probable, Ore Dumps, Tailings** Prominent engineer says one whole hill will mill. This is the hill from which 19 cars have been shipped.

24-A **Vein Width, Length, Value, etc.** One ore body 86' deep, 120' drift values from \$8.00 to \$18.00/

25. **Mine, Mill Equipment & Flow Sheet**

26. **Road Conditions, Route** From Vicksburg take highway #72 towards Parker,  $2\frac{1}{2}$  miles. Cross railroad track and follow graded road to mine.

27. **Water Supply** Have used 25000 gallons per 24 hours over a period of two months. Pumping plant and 5000 gallon tank.

28. **Brief History**

29. **Special Problems, Reports Filed**

30. **Remarks**

31. **If property for sale: Price, terms and address to negotiate.** Total price \$75,000.00. Terms subject to agreement. C. H. Waters, Vicksburg, Arizona.

32. **Signed**..... C. H. Waters.

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