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Arizona Geological Survey
3550 N. Central Ave, 2nd floor
Phoenix, AZ, 85012
602-771-1601
<http://www.azgs.az.gov>
inquiries@azgs.az.gov

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Geological Reconnaissance
Buckskin Mountain Area
Yuma County, Arizona

Earl Wallace

GEOLOGICAL RECONNAISSANCE

BUCKSKIN MOUNTAINS AREA

YUMA COUNTY, ARIZONA

For

Mr. Earl Wallace

By

**Heinrichs Geoexploration Company
P. O. Box 5671 Tucson, Arizona 85703
Phone: 623-0578 Area Code: 602**

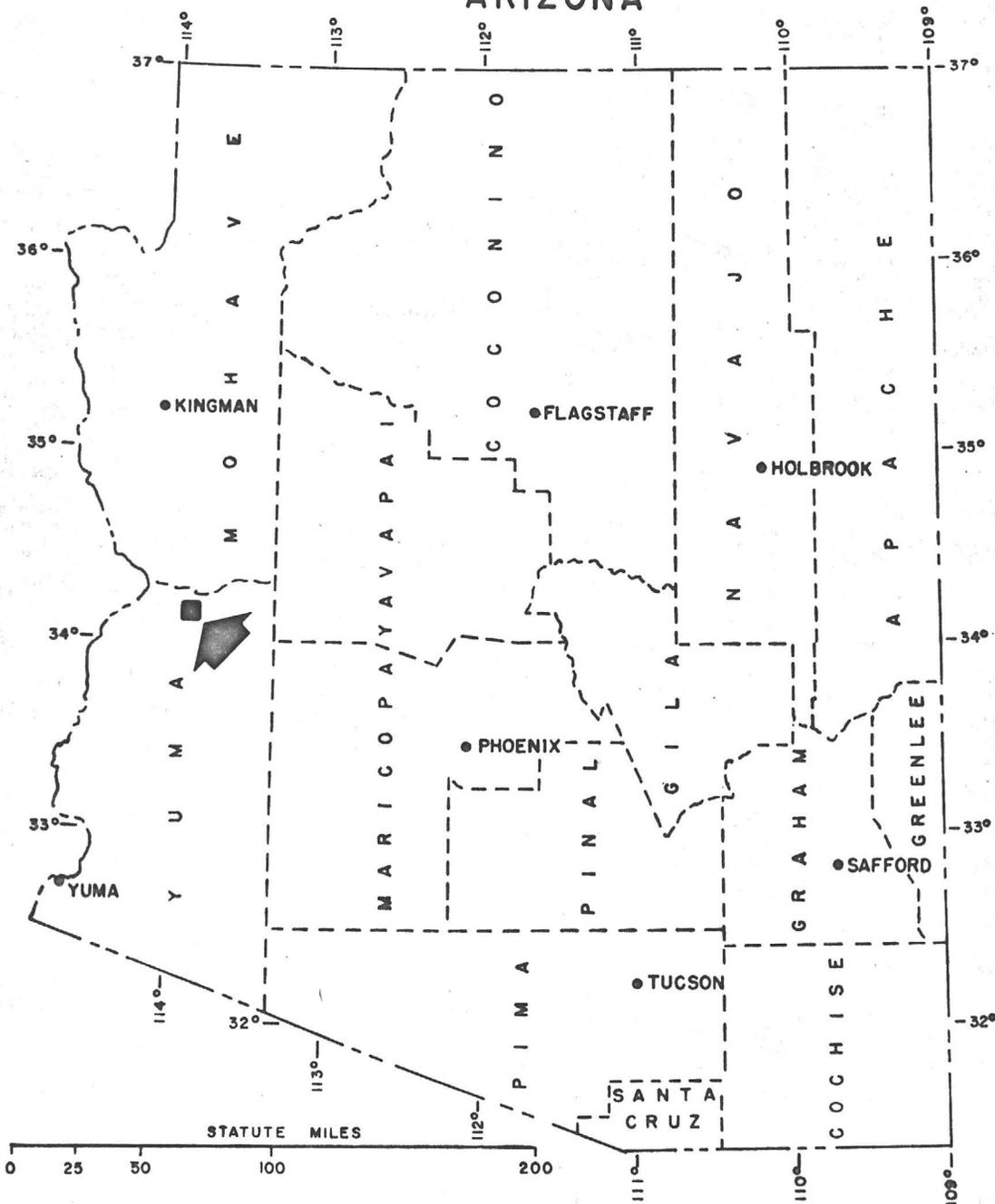
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GENERAL LOCATION OF

GEOLOGIC RECONNAISSANCE INVESTIGATION
BUCKSKIN MOUNTAINS - SWANSEA AREA

ARIZONA



INTRODUCTION

At the request of Mr. Earl Wallace of Merced, California, October 15 and 16 was spent in his company and that of the claim owners, making a brief geologic reconnaissance of some 52 mining claims located in and adjacent to Sections 32 and 33, R16W, T10N, Yuma County, Arizona in the Buckskin Mountains West, NW quadrangle sheet.

CONCLUSIONS AND RECOMMENDATIONS

The country rock in this area is a granitic gneiss with a steep southerly dipping foliation. Some epidote and chlorite are present and locally in considerable quantity. Very little limestone is seen and that noted is highly silicified and altered in places to wollastonite.

The mineralization is specular hematite with subsidiary copper oxides. In some places, magnetite is present. Some copper appears to be disseminated in the hematite but it is mostly along the contacts of the hematite and gneiss. No sulfide mineralization was observed on these exposures.

The number of exposures and possible economic amounts of copper make this area very interesting. This type of mineralization is spread over a very large area in the Bill Williams River country. At Swansea the ore is copper sulfide with more limestone there, and the ore is concentrated along the contacts. These conditions do not prevail on the claims investigated, however. At this time, Magma Copper Company is drilling at Swansea and Magma is considered to be quite conservative and competent in their exploration practices.

At this point, there is insufficient evidence to make a reliable decision on whether to proceed with exploring and development of the property, or to drop it completely. Therefore,

the following is a suggested program outline which will produce enough data to make a proper decision:

1. Samples from each of the larger outcrops and workings and one sample that is a composite of all of these should be sent to a metallurgist or metallurgical laboratory to determine if your idea of crushing, leaching the copper and concentrating the iron is potentially, technically, and economically feasible. From the results of such studies, would also be determined, possible cost, the type of equipment required and how long it would take to set up. It is conceivable that the natural gas line might be tapped a few miles south of the claim area and a power line is only a few miles distant. Very likely water will have to be brought from the Bill Williams River 10 miles north.
2. Samples (100 pounds plus or minus) should be sent to the major steel and copper companies in this area. I understand this has been done in the past but it seems advisable to do so again. If any offers to buy ore are returned, they can be compared at a similar price at one time. Conditions also change and some of those who gave negative answers before may reconsider, or vice versa. It is possible the hematite might be used in making sponge iron which can be used in oxidized ore beneficiation techniques. Samples should be composites of several areas and representative of the ore. Magma Copper Company should certainly receive some.

All locations sampled should be well and permanently marked on the ground with a number and also a record kept of this number.

If either or both of these suggestions return favorable results, the area should then be mapped geologically and systematically sampled, which will be fairly simple as the outcrops are obvious. This is necessary to obtain sufficient data for designing a preliminary drilling program which would be required to obtain more representative samples and information to determine the grade and amount of ore present. The mapping and sampling can be done in about one month's time at a cost of about \$3,500.00 or less, exclusive of assay costs.

Before mapping begins, the first thing done should be to survey the claims and locate them on the maps. At present, the only map available is the Buckskin Mountains West-NW, Arizona which is a preliminary work copy but may be published soon. Aerial photographs of the area are available from the U.S.G.S. as this map was made from photos which would be of considerable help in mapping and any follow up work.

Once the mapping and sampling are complete, the required drilling could be determined from these results. However, first the feasibility of extracting metal from the ore should be determined, and if this is impractical to do yourself, then to see if there is a market for your ore elsewhere.

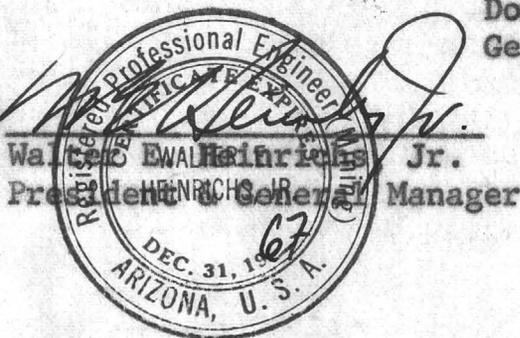
Respectfully submitted,

HEINRICHS GEOEXPLORATION COMPANY

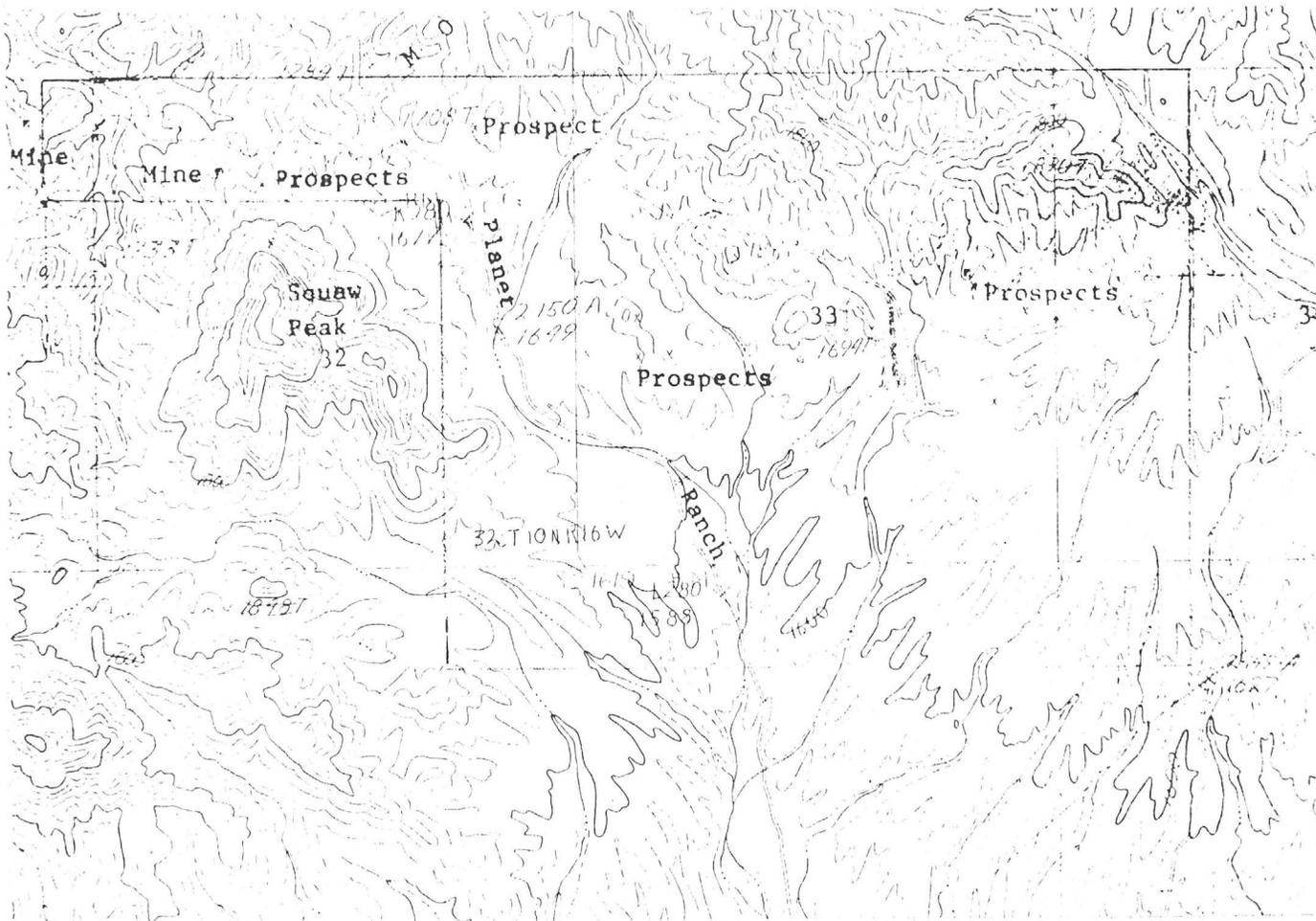
Donald B Cooley

Donald B. Cooley
Geologist

APPROVED:



October 20, 1967
Tucson, Arizona



GENERAL AREA OF CLAIMS

BOUNDARIES APPROXIMATE

Don C. / DBC

Heinrichs Geox Company
P. O. Box 5671
Tucson, Arizona

October 28, 1967

Attention: Mr. Walter Heinrichs, Jr.

Dear Mr. Heinrichs,

I received the report made out by Mr. Cooley, and from the report we have gained no knowledge of the claims at all. The report sounds like a re-run of what we already knew, and what we told Mr. Cooley.

As stated in your letter of October 10, 1967, we were looking for potential problems and possibilities, which I cannot find in the report. Mr. Cooley had quite a few samples of ore in his pick-up which he was going to run a lab. test on, and report on the contents. No such lab. work could have been done, as there is no mention of it in the report, however, I believe we were charged for it. A man of Mr. Cooley's background should be able to dictate a report such as I received in a matter of a few minutes, and the secretary should be able to type it in about the same amount of time. It looks like I was charged for about a day and one half. Either they are very slow, or part of the report is missing.

We intend to continue with exploration work on the claims, and have set up a considerable amount of money for the work, but the people I represent are afraid that all the reports from your firm might be so inconclusive and want me to look for someone else to finish the job. I guessed that part of the report was missing, and said I would check with you and find out.

I believe if you will state what the possibilities are, with a breakdown of the ore Mr. Cooley took with him, by per-cent, everything will be alright. If this isn't satisfactory, I would appreciate a corrected statement as to the office work performed.

Thank you very kindly,

Earle R. Wallace
Earle R. Wallace

Earle R. Wallace
839 E. Olive Ave.
Merced, Ca. 95340



November 8, 1967

Mr. Earle Wallace
839 East Olive Avenue
Merced, California 95304

Re: Buckskin Mts. Area Mining Claims
Yuma County, Arizona

Dear Mr. Wallace:

Your letter of 28 October 1967 acknowledging receipt of our 20 October report has been received.

Collectively, we have been in this business a long time, myself personally, all of my life. Our mission has been to find mines and our reputation has not been developed by being unsuccessful. However, as you well know, the odds favor hundreds more misses than hits. Therefore, we advise our clients in the manner which most certainly will investigate and identify the positive and at the same time eliminate the negative, with the least unnecessary expenditure of time and effort. In your instance, Mr. Cooley's report reflected a currently somewhat marginal situation and under such circumstances, we refuse to be led into pure hip-shot guesses but rather to promote concrete steps or the program which will gain the necessary facts that in turn can be fully conclusive and categorically stated.

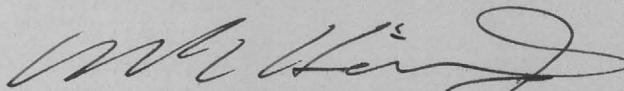
Upon reviewing our statement, it would appear to you that you had been over charged as to time spent, however, considerable time was spent in locating the non-standard maps of your area and checking the literature for additional information, but you were not charged for any laboratory work or analysis by the technical staff. At your request, samples were assayed for us and the results are included herewith. The purely guesstimated tonnages represent material which might be obtained from all methods of mining with related mining costs ranging anywhere from a minimum of \$0.50 to \$1.00 per ton, up to \$10.00 to over \$15.00 per ton. Considering this plus transportation problems and cost of at least several dollars per ton, the lack of representative sampling and associated geological mapping from which realistic

November 8, 1967

preliminary ore reserves can be valued, it is obvious that a reasonably favorable marketing situation must exist to enable you to safely initiate any "boot-strap" type production and make any money at it. It was for this precise reason that Don recommended a brief preliminary re-investigation of the current market situation, along with competent metallurgical analysis on a reasonably representative bulk type sample. You must realize that high iron-copper mineral is not a common and readily marketable product. Iron smelting cannot tolerate too much copper and copper smelters do not usually prefer high iron. Thus, without benefit of current and factual market considerations one must consider metallurgical separation of the two products. To do this requires an assured minimum proven tonnage to justify risking the capital investment costs for related plant facilities, with reasonable expectation of return and profit.

In order to do the above, on a sound and intelligent engineering basis, something like the recommendations on page two of our report and suggestions contained in the last three paragraphs on page three must be done. In summary, preliminary geological mapping and sampling, preliminary metallurgical testing of a representative bulk sample and re-examination of the current potential market. We are interested and ready to assist in any way we can, with estimated costs as stated in our report. Whatever your decision, we would appreciate your further response.

Sincerely yours,
HEINRICHS GEOEXPLORATION CO.



Walter E. Heinrichs, Jr.
President & General Manager

WEH:jh

SAMPLE DESCRIPTION TABLE

Sample No.	Location	Preliminary guess of possible representative tonnage available
BCC - 2 BCC-3	Composite samples from all over the property. Two were submitted as a control factor.	30,000 tons
BCC-4	From near tunnel on hill north of camp.	2,000 tons
BCC-5	Copper stained epidote and serpentine, mainly.	?

November 8, 1967
HEINRICHS GEOEXPLORATION CO.
P. O. Box 5671
Tucson, Arizona 85703

30 So. Main St.
P. O. Box 1889

Jacobs Assay Office

Registered Assayers



PHONE Main 2-0813

Certificate No. 58195

85702

Tucson, Arizona,

Nov 30

1967

Sample Submitted by Mr.

Heinrichs Geo exploration

IRON

SAMPLE MARKED	GOLD Ozs. per ton ore	GOLD Value per ton ore *	SILVER Ozs. per ton ore	COPPER Per cent Wet Assay	LEAD Per cent Wet Assay	Fe.	
						Per cent Wet Assay	Per cent Wet Assay
B-CC 2		\$ <u>Trace</u>	<u>0 2/10</u>	<u>2.61</u>	<u>0 2/10</u>	<u>45 7/10</u>	
3	<u>0.005</u>	<u>0.17</u>	<u>0 3/10</u>	<u>4.45</u>		<u>47 0/10</u>	
4				<u>0.46</u>		<u>52 8/10</u>	
5				<u>1.39</u>		<u>6 3/10</u>	



* Gold Figured \$35.00 per oz. Troy

Charges \$ 31.25

Very respectfully,

Ben P. Jacobs

GEOLOGICAL RECONNAISSANCE

BUCKSKIN MOUNTAINS AREA

YUMA COUNTY, ARIZONA

For

Mr. Earl Wallace

By

**Heinrichs Geoexploration Company
P. O. Box 5671 Tucson, Arizona 85703
Phone: 623-0578 Area Code: 602**

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Respectfully submitted,

HEINRICHS GEOEXPLORATION COMPANY

Donald B. Cooley
Geologist

APPROVED:



October 20, 1967
Tucson, Arizona

S T A T E M E N T

October 24, 1967

Mr. Earl Wallace
839 East Olive Street
Merced, California 95340

Re: Mineral Property Examination
Yuma County, Arizona
Our Job No. B198-67

Mr. Donald Cooley - 2 days @ \$150.00/day	\$300.00
Vehicle rental - 2 days @ \$12.00/day	24.00
Mileage - 570 miles @ 12¢/mile	68.40
Living expenses	22.59
Compilation and report	177.50
	<hr/>
Total	\$592.49
Advance	500.00
	<hr/>
Balance	\$ 92.49

SA

S T A T E M E N T

October 24, 1967

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839 E. Olive Street
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Living expenses	22.59
Compilation & report	177.50
Total	\$ 592.49
Advance	500.00
Balance	\$ 92.49

201 (675)

BILLING

CLIENT

Carl Wallace B198-67

BILLING NO. _____

AREA _____

TYPE OF WORK 1

DATE

CHARGE

AMOUNT

10/14 - Cooley - 2 hrs.

30.00

Don Cooley - 2 day @ 150.00/day

300.00

10/21 Cooley - 3 hrs

135.00

Janner - 3 hrs

22.50

Watts' time

VEHICLE RENTAL:

2 days @ 12.00/day

24.00

MILEAGE:

570 miles

68.40

EXPENSES:

LIVING & TRAVEL

19.64 + 15.90

22.59

MAPS _____

MISC. _____

PHONE _____

REPORT: _____

TOTAL HOURS: _____

REMARKS, ETC: _____

TOTAL

592.49

adv

570.00

92.49

Customer's Tax Receipt

DATE

Coffee Shop #1
Oct 16 1967



Newton's RESTAURANTS

I Spent \$ *5.36*

I Entertained

We Discussed

CHECK IDENTIFICATION
CORRAL DINING ROOM

12357
CHECK NO.

DATE	SERVER	TABLE NO.	PERSONS
<i>10/15/67</i>	<i>Go</i>		

2.69

GUEST
RECEIPT

TOTAL AMOUNT
OF CHECK

\$1.14

Branding Iron

Parker, Arizona

DATE

SERVER

PERSONS

CHECK NO.

10/16
Margie
90578

El Rancho Parker Motel

Phone 669-2231

P. O. BOX 686

PARKER, ARIZONA 85344

DATE Oct 15 1967

Received of

Don Cooley
Six and up

Dollars \$

6⁰⁰

For Rent of

Room

From

Oct 15 1967

to

Oct 16 1967

EL RANCHO PARKER MOTEL

Thank You

By

W.K. Hall owner

October 20, 1967

Mr. Earl Wallace
839 East Olive Street
Merced, California 95340

Dear Mr. Wallace:

Enclosed is an original and two copies of the Geological Reconnaissance Report on the 52 claims located near the Buckskin Mountains, Yuma County, Arizona. At this time there is insufficient evidence for a go-no go decision on the property in my opinion. I have outlined a program which should give this information for the least cost. If your plan of milling is feasible or someone will buy ore from you then we can determine if the ore can be extracted from the ground profitably and if there is enough there to be profitable.

If there are any questions, please don't hesitate to ask.

Very truly yours,

HEINRICHS GEOEXPLORATION COMPANY

INSTRUCTIONS TO DELIVERING EMPLOYEE

Show to whom and date delivered Show to whom, date, and address where delivered Deliver ONLY to addressee

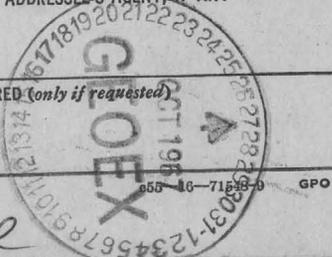
(Additional charges required for these services)

RECEIPT

Received the numbered article described below.

REGISTERED NO.	SIGNATURE OR NAME OF ADDRESSEE <i>(Must always be filled in)</i>
CERTIFIED NO. 580699	<i>Earl Wallace</i>
INSURED NO.	SIGNATURE OF ADDRESSEE'S AGENT, IF ANY
DATE DELIVERED 10-24-67	SHOW WHERE DELIVERED <i>(Only if requested)</i>

Re: Earl Wallace



Ed B. Cooley
Postmist

E. WALLACE

C. G. BLACK
391 - E 17th
MERCED, CA 95340

These men claim
owners - Wallace
is business man & money
for them

C. G. BLACK

MINERAL ORES FOR SALE
Copper - Gold - Silver - Iron

DIRECT FROM NINE MINES

391 E 17th St SA

~~115 WEST 19TH STREET~~
MERCED, CALIFORNIA

PHONE 723-0990
723-0406

Chester Chisholm

673-3225 - Madria

Phil Chambers
Dos Palos Calif.

392-3791

Earl Wallace ⊗

10/12/67

Called Walt & Don
Monday

Box 5671

Mail dishes
Check \$500⁰⁰
Tomorrow Fri?

pieces of Inc.

Bank of Am.
Bank of Cal.

Rochester Citizen's Journal.

Valley Bank.

W.

October 10, 1967

Mr. Earl Wallace:
839 E. Olive Street
Merced, California 95340

Re: Proposed Mineral Property Examination
Near Swansea, Yuma County, Arizona

Dear Mr. Wallace:

Thank you for your call of October 4th. Mr. Cooley has returned from his previous assignment on schedule and is anticipating making final arrangements to meet you.

It is our understanding you want a brief preliminary feasibility examination and report regarding potential problems and possibilities together with our recommendations. As stated to our mutual acquaintance, Mr. Noboru Tashiro, our charges are \$150.00 per man field day, Tucson to Tucson and \$125.00 per office day working on report plus all direct incidental expenses. Assuming no more than two or three days in the field and two or three days in the office, an estimate of total costs would not exceed \$1,000.00, especially if only a nominal amount of sampling is done and assaying required.

If the foregoing meets with your approval, you may so indicate by executing as provided below on the enclosed carbon copy and returning it to us in the stamped self addressed envelop attached. In lieu of credit information and prior business experience with you and your associates, we request an advance of \$500.00 to be applied to your account as proposed above.

Probably Don Cooley can arrange to meet you in Parker this coming week-end, either Friday the 13th or Monday the 16th, which ever is mutually preferable. This can best be ironed out by phone.

Sincerely yours,
HEINRICHS GEOEXPLORATION CO.

WEH:jh

Walter E. Heinrichs, Jr. President

Enclosures: Extra cc. w/envelope
Brochure & Services Cost Sheet

Accepted: _____

Date: _____



Your Phone's Been Ringing

For

Walt

Date

10-5-67

Time

11:15

Mr.

Earl Wallace

of

operator 25 Merced Calif.

Phone

209/722-7632

Home.

Please return call by

Will phone again

Operator

jc

U. prof

Mr. Wallace called Walt.

~~10/4/67~~

Engineers

Ins agency ^{the} partners.

Week or 10 days

Proposal letter.

Weekend or Monday.

Sat, Sun.

Sample

open pit possible?

stainer

\$39 E. Olive

\$500⁰⁰

Merced, Cal, 95340

Advance

~~///~~
Don Cooley.

John. prospect

Nobuo Tashiro called: 10/4/67

(ART. Wood. & Ridge Lite no in la area)

A Mr Earl Wallace from Merced, Calif has
lease 1000 acres near Jakes (22 Miles)

6 Mi west Swansea

6 " 20 Mineral Hill - Nobu recommends

an engineering report for them by us before flooting

\$100,000⁰⁰/_{to} work tailings first year + Mill etc.
\$100,000⁰⁰-
?

work tailings 1 yr

Short exam only: ✓

\$ < 1000⁰⁰

\$150⁰⁰/day field

\$125⁰⁰/ " office

} expenses

comprehensive
w/ mapping & Sampling
etc \$2000-3000⁰⁰+

We will need min
week to 20 days notice up
to 3 weeks possible

M.



October 10, 1967



HEINRICHS GEOEXPLORATION COMPANY

806 WEST GRANT ROAD, TUCSON, ARIZONA, 85703. P.O. BOX 5671. PHONE: (AREA CODE 602) 623-0578

Mr. Earl Wallace:
839 E. Olive Street
Merced, California 95340

JB 198-67

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Near Swansea, Yuma County, Arizona

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Sincerely yours,
HEINRICHS GEOEXPLORATION CO.

Walter E. Heinrichs, Jr. President

WEH:jh

Enclosures: Extra cc. w/envelope
Brochure & Services Cost Sheet

Accepted:

MINERAL ENGINEERING CONSULTANTS AND CONTRACTORS. GEOPHYSICAL, GEOLOGICAL AND ECONOMIC APPRAISALS.

Date: 10-12-67

Rebuttal

Package
\$7⁰⁰/costs
/ton.

1. Problems outlined in Report

Find out if ore is marketable & for what Cu or Fe, if not salable as is, is it feasible to make it so. need to survey & map claims properly - cost estimated

2. They seemed to feel they had another Swansea - told them no - Swansea sulfide ore in limestone contact - practically no limestone showing on these claims - no sulfides either

3. Samples not assayed - because they already have assays seemed an unnecessary expense - did look at them here carefully - Since receiving letter took comment to Jacobs

4. Time

1. Walt spent 1 1/2 hrs checking report for clarity
2. took time to locate map - advance unpublished copy
3. checked literature - no help there.
4. Grover overcharged them
5. Report not just dictated

They missed the main point - see if ore is marketable or if it can be made so profitably. That seems to me to be the first answer they need.

Don

the quote
\$400 under
were \$400