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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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J. E. K.

APR 16 1973

INTER-OFFICE MEMORANDUM

JEK file
3-14-1.0

TO (NAME, LOCATION, ZIP)
KEM File
Oakland, Calif.

DATE
April 10, 1973

FROM (NAME, DEPT., LOCATION, ZIP)
Joseph J. Durek
Oakland, 618-OB

COPIES TO
John E. Kinnison
Tucson, Arizona

SUBJECT
COPPER-ARIZONA
Hovatter Property

While working in Yuma County during March, the Hovatter property was re-examined to determine if there had been recent exploration activity and to review evidence regarding the origin of the deposit.

Access is now more limited because of cattle fencing along the new highway right-of-way. Easiest access is by graded road south from U.S. 60-70 ten miles west of Hope. This road has an unlocked gate at the old highway, and it passes under a bridge on the new highway.

One mile east of the above turnoff is another gated turnoff to the new Muller Mining Company's copper leaching and electrowinning plant (three-fourth mile south and visible from the highway). The owner is Cris Muller (Star Rt., Box 16, Salome, Arizona), who has unidentified partners in Phoenix.

The plant includes a jaw crusher, plastic-lined dirt leach tank, 12 concrete electrolytic tanks, and two DC generators "salvaged from the Queen Mary". Sulfuric acid, copper starting sheets, and antimonial lead anodes were purchased from Bagdad. The plant is only in testing stages, and problems seem to exist. One noticable one is severe warping and deterioration of the anodes; iron contamination may be another. (Muller is presently distracted with tests of a reagent that causes copper and silver in solution to "grow" up to forty times their initial concentration.)

A few tons of ore have been trucked from patented claims in the New Water Mountains, where Raymond Hovatter had located a large group of claims and alleged that he was owner of the patented claims.

RECEIVED
APR 16 1973
TUCSON
KAISER EXPLORATION & MINING CO.

KACC 155 (12/71)

The 23 patented claims of the Moore group appear to be owned by Cris Muller, who is paying taxes and removing some ore. A former partner named Cockrell, who was a Phoenix contractor, is now deceased. Muller denies ever optioning the claims to Hovatter, but he stated that Hovatter had once sought an agreement to sell them. All of the former copper mines or prospects are on these patented claims. There is no evidence of any recent assessment work on the adjacent claims located by Hovatter or by Russell and Gadberry. Muller also stated that these claims are not being maintained.

Muller's claims are now under a 200-day option to an unidentified promoter, with subsequent payments of $500 per month for six months and $1,500 per month thereafter. Royalty or advance royalty payments would total $3,000,000. Jon Thorson, of Exxon Exploration (Humble Oil), is examining the property.

Interpretation is unchanged, and the chrysocolla is confined to faults at the contact or in the hanging-wall zone of a northwest-striking rhyolite dike, in associated cross-faults, or in a fault vein in shale and quartzite which underlie the andesitic flows. Portions of the rhyolite are iron-stained, but iron oxides are generally sparse. There appears to be sporatic copper mineralization with considerable migration in faults during oxidation in a N60^{o}W-zone 9,000 feet long and 1,500 feet wide. Most of the exposed copper is at each end of this zone, however.

In the southern part of the range, the rhyolite is roughly conformable with the andesitic flows but irregular apophyses or dikes appear to extend across flow bedding (examined with binoculars, only).

Low-angle or bedding-plane faulting was not recognized as a significant control, although Muller obtained his leaching ore from such a local feature where chrysocolla is present in chloritic rubble breccia. Specular hematite is absent, but it is characteristic of the low-angle veins further north in the Bouse and Swansea districts.

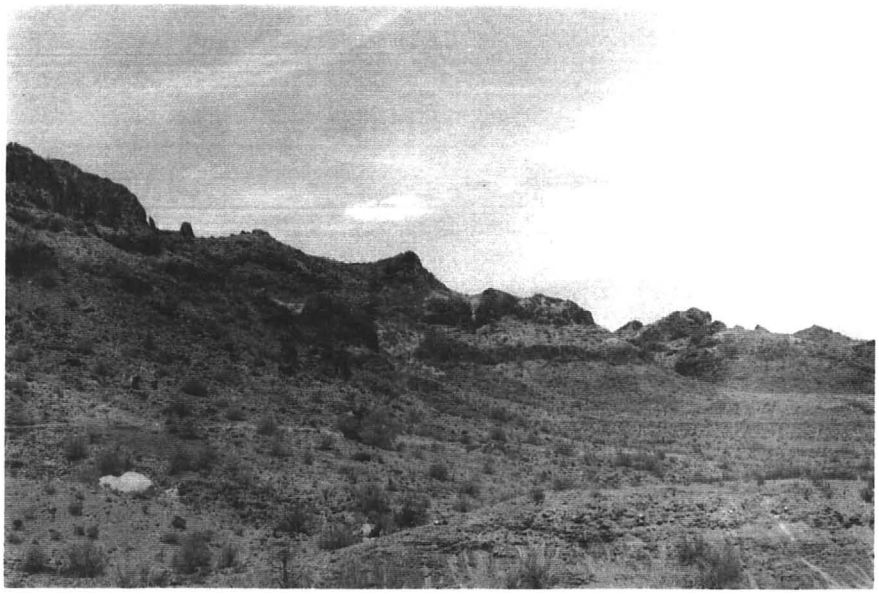
Muller stated that the drill holes in the principal chrysocolla area and east of the Eagle Eye mine were drilled by Bunker Hill in the early 1960's. The deepest hole was 1,200 feet and encountered sulfides, but "$35,000 was asked for the logs" and they were not obtained.

This deposit is concluded to consist of relative minor copper-silver fissure veins in a regional, northwest-striking fault zone. Mineralization is possibly related to rhyolite intruded into Cretaceous andesitic flows. The copper distribution is restricted, but transport during weathering has exaggerated its abundance.

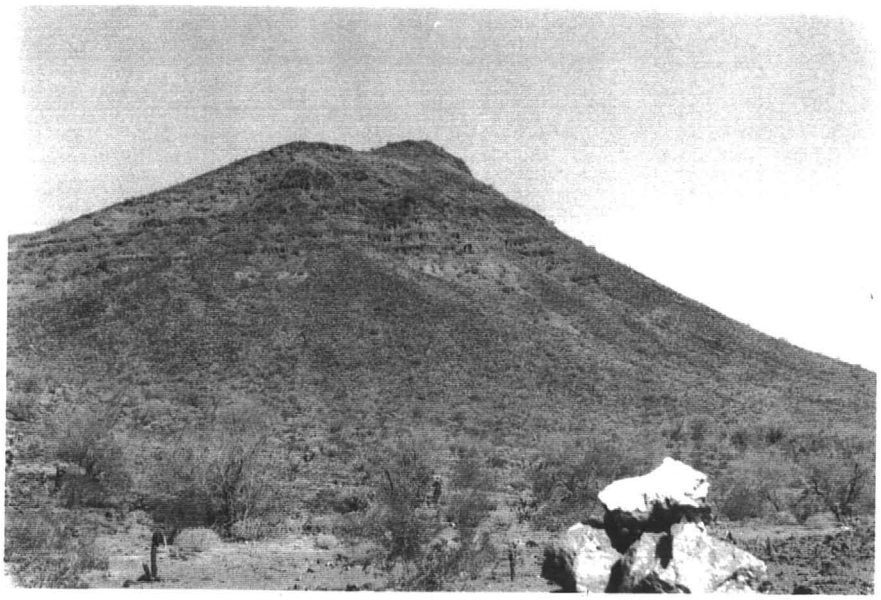
This district is tentatively grouped with the fissure vein deposits of silver, gold, and copper in the adjacent southern Plumosa and Little Harquahala Mountains.

JJD:la

JUN • 69



JUN • 69



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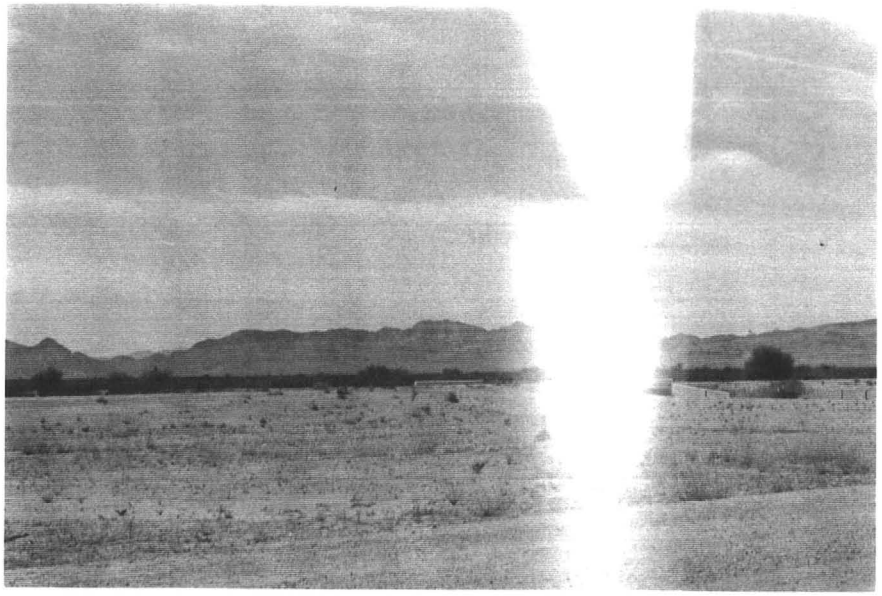

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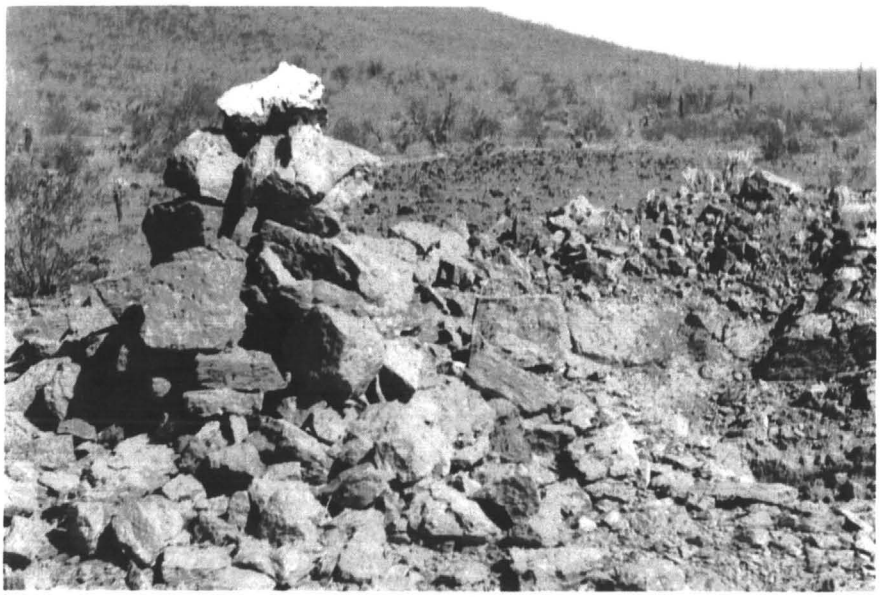


• JUN • 69

KINNISON

GEO-COMP EXPLORATION, INC.
SUBSIDIARY OF G.F.I. COMPUTER INDUSTRIES, INC.
1019 WEST PRINCE ROAD • TUCSON, ARIZONA 85705 • AREA CODE 602 887-6212

EXPLORATION OF NATURAL RESOURCES THRU COMPUTER TECHNOLOGY

June 25, 1969

Mr. Jack Fraser
Glen Exploration, Inc.
1204 Pretorian Building
Dallas, Texas

Dear Jack:

Enclosed please find my report on the Hovatter copper prospect in Yuma County, Arizona. You will note that I recommend the property be rejected. I also comment on and attempt to document a condition which I regard as serious -- namely, that those involved in promoting the property to you, including Mr. Hovatter, have grossly misrepresented the facts.

I believe I have covered all the pertinent details concerning the property, but if you need any further clarification please give me a call.

Very truly yours,

John E. Kinnison

John E. Kinnison

JEK:bnb

cc: C. L. Fair
H. Downey

3226 East 46th Street Phone 624-0049

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85713

SAMPLE SUBMITTED BY Geo-Comp Exploration DATE June 21, 1969

SAMPLE MARKED	GOLD OZ./TON	SILVER OZ./TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	Percent Ox. Cu
EE-1	.005	1.29	0.16					0.15
EE-2	.003	1.01	0.18					0.17
EE-3	Trace	1.36	0.02					
EE-4	.002	1.50	0.26					0.25
EE-5	.002	1.25	0.03					
EE-6	.008	2.21	0.05					
EE-7	.002	1.34	0.02					
EE-8	.003	1.04	0.10					0.09
EE-9	.005	1.61	0.16					0.15
EE-10	.002	2.06	0.07					
EER-1	.001	1.32	0.02					
EER-2	.001	0.69	0.01					
EER-3	.002	0.10	0.01					
EER-4	.001	0.09	Trace					
EER-5	Trace	0.20	Trace					
1918	Trace	0.22	0.60					0.55
1919	.006	1.37	1.93					1.80
1920	.003	0.16	0.10		Glen			0.09
1921	.002	0.40	0.36		Hovatter copper			0.33
1922	.003	0.18	0.38		Yuma County Ariz			0.20
1923	.004	0.09	0.01		003 003			

J. E. K.

JUN 24 1969

REGISTERED ASSAYER CERTIFICATE NO. 6852 PETE S. FLORES Date Signed Arizona U. S. A.

June 21 1969

CHARGES $ 130.25

ASSAYER-CHEMIST

3226 East 46th Street

Phone 624-0049

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85713

SAMPLE SUBMITTED BY Geo-Comp Exploration Inc.

DATE June 14, 1969

SAMPLE MARKED	GOLD OZ./TON	SILVER OZ./TON	PER CENT COPPER	PERCENT LEAD	PERCENT ZINC	PERCENT MOLYBDENUM	PERCENT IRON	Percent Ox. Cu
1915	.010	0.14	0.01					Trace
1916	.015	5.79	0.22					0.20
1917	.005	0.41	0.41					0.38

JUN 16 1969

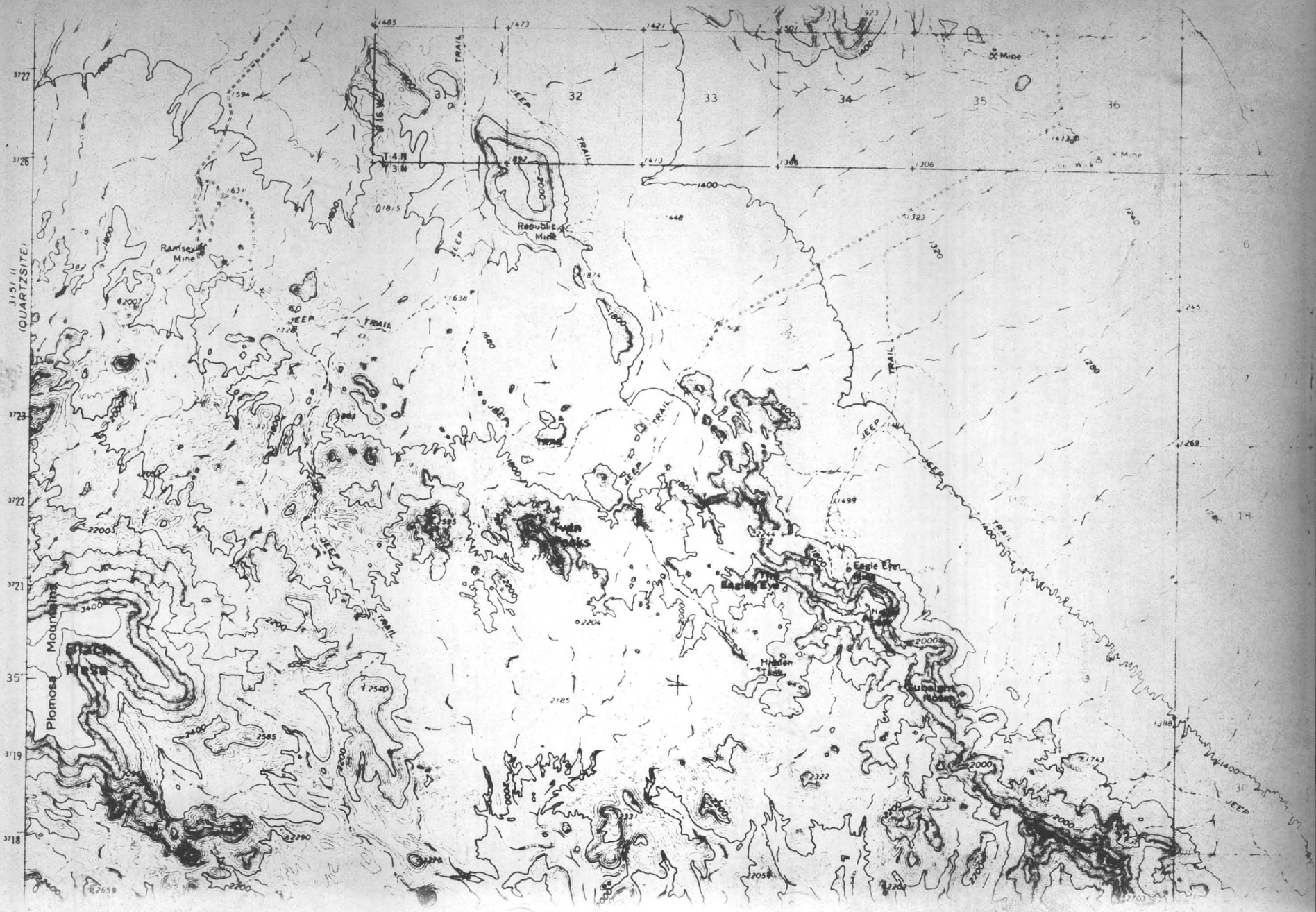
J.E. K.

JUN 16 1969

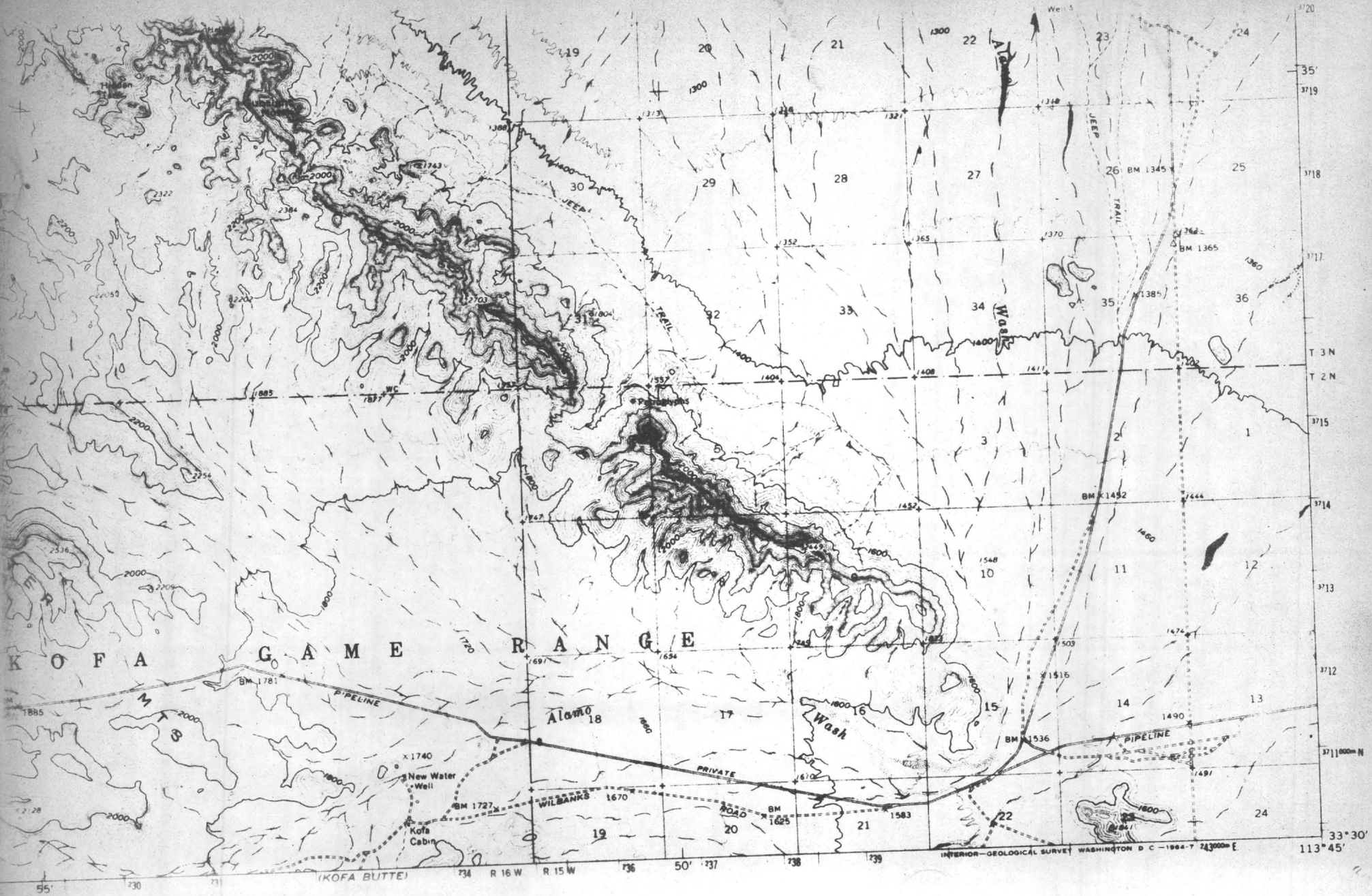
REGISTERED ASSAYER CERTIFICATE NO. 6852 PETE S. FLORES Signed Arizona U. S. A.

CHARGES $ 21.00

ASSAYER - CHEMIST



Ramsey Mine
Republic Mine
Mine
Eagle Eye
Hidden Tank
Plomosa Mountains
Black Mesa
JEEP TRAIL
T 4 N
T 3 N
R 16 W
31
32
33
34
35
36
3151 II (QUARTZSITE)


KOFA GAME RANGE
Alamo Wash
Alamo Wash
JEEP TRAIL
JEEP TRAIL
PIPELINE
PIPELINE
PRIVATE ROAD
WILBANKS
New Water Well
Kofa Cabin
(KOFA BUTTE)
BM 1345
BM 1365
BM 1385
BM 1452
BM 1536
BM 1781
BM 1727
BM 1625
T 3 N
T 2 N
R 16 W
R 15 W
33°30'
113°45'
INTERIOR—GEOLOGICAL SURVEY WASHINGTON D C—1964-T

		Au	Ag	Cu	Cu Ox
EE	B 1	.005	1.29	.16	.15
	2	.003	1.01	.18	.17
	3.	TR.	1.36	.02	
	4.	.002	1.50	.26	.25
	5	.002	1.25	.03	
	6	.008	2.21	.05	
	7	.002	1.34	.02	
	8	.003	1.04	.10	.09
	9	.005	1.61	.16	.15
	10	.002	2.06	.07	
	RS 1	.001	1.32	.02	
	2	.001	0.69	.01	
	3	.002	0.10	.01	
	4	.001	0.09	TR	
	5	TR	0.20	TR	
	1918	TR	0.22	.60	.55
	1919	.006	1.37	1.93	1.80
ROTARY	1920	.003	0.16	.10	.09
"	1921	.002	0.40	.36	.33
DDH	1922	.003	0.18	.38	.23
"	1923	.004	0.09	.01	

Bulk sample from CuOx dump #1919

Rotary	#
South (EAST) hole	1920
North (WEST) "	1921

DDH

Upper Angle	1922
Lower "	1923

EAGLE EYE SERIES

EE B-1-10 - Bulk samples from mineralized zones in quartzite

EE R 1-5 Rock chip samples from barren area of feldspar zite

EAGLE EYE AREA SAMPLE NOTES

SAMPLE	VALUES oz/ton AU	oz/ton AG	% CU	% CUOX	FOOTAGE	COMMENTS
B-10	.015	5.79	0.22	0.20		Dump near prospect pit
B-1	.005	1.29	0.16	0.15	22'	Along face of open cut
B-2	.003	1.01	0.18	0.17	10'	Side of zone.
B-3	TR.	1.36	0.02		12'	Across end of zone
B-4	.002	1.50	0.26	0.25	15'	Across zone of shearing (S40E)
B-5	.002	1.25	0.03		40'	Includes B-3, B-4 and barren intermediate zone.
B-6	.008	2.21	0.05		25'	Over top of outcrop - patchy bleaching.
B-7	.002	1.34	0.02		30'	End of main N-S zone or separate zone controlled by N80E faulting
B-8	.003	1.04	0.10	0.09	25'	Ditto
B-9	.005	1.61	0.16	0.15	20'	Across zone including some pieces from prospect pit.
B-10	.002	2.06	0.07		30'	Along extension of N80E fault
R-1	.001	1.32	0.02			Near main zone
R-2	.001	0.69	0.01			50' SW of B-10
R-3	.002	0.10	0.01			
R-4	.001	0.09	TR			Slightly bleached
R-5	TR	0.20	TR			

June 23, 1969

I hope you will take my comments in the spirit they are given -- I would not ordinarily have

Not Sent

Mr. Jack Fraser
Glen Exploration
1204 Pretorian Bldg.
Dallas, Texas

Dear Jack:

I have read the proposed contract of option between you and Hovatter and I feel that I should make the following comments, as some of the provisions therein relate to technical aspects of exploration and mining.

1. A 15% royalty on gross value is sufficiently high that it would bankrupt a mine operating with a normal profit margin. This is readily apparent if we keep in mind that the metal market is geared around the major metal producers operating with a return on capital of 12 to 14 percent. Mining royalties frequently are in the range of 3 to 8 percent net smelter return (return less freight). Five percent is common, while 8 percent approaches maximum. Ten percent (most Indian reservations, and high-grade deposits) is about the maximum tolerable for most ore deposits.

2. An option period should allow sufficient time to adequately test a property before major purchase payments are made. Six months, even if extended to one year, is not enough time to drill out a large deposit in sufficient detail to ~~the~~ be properly evaluated in terms of ore and profit therefrom.

Naturally, if an exceptionally good prospect is held out only at a high purchase price with little or no time for exploration, such a prospect may still be evaluated and purchased, but in this case the evaluation will be a judgment on prospective value, not on proven reserves.

Cherokee 180
No Wind or clouds
Visibility Good.

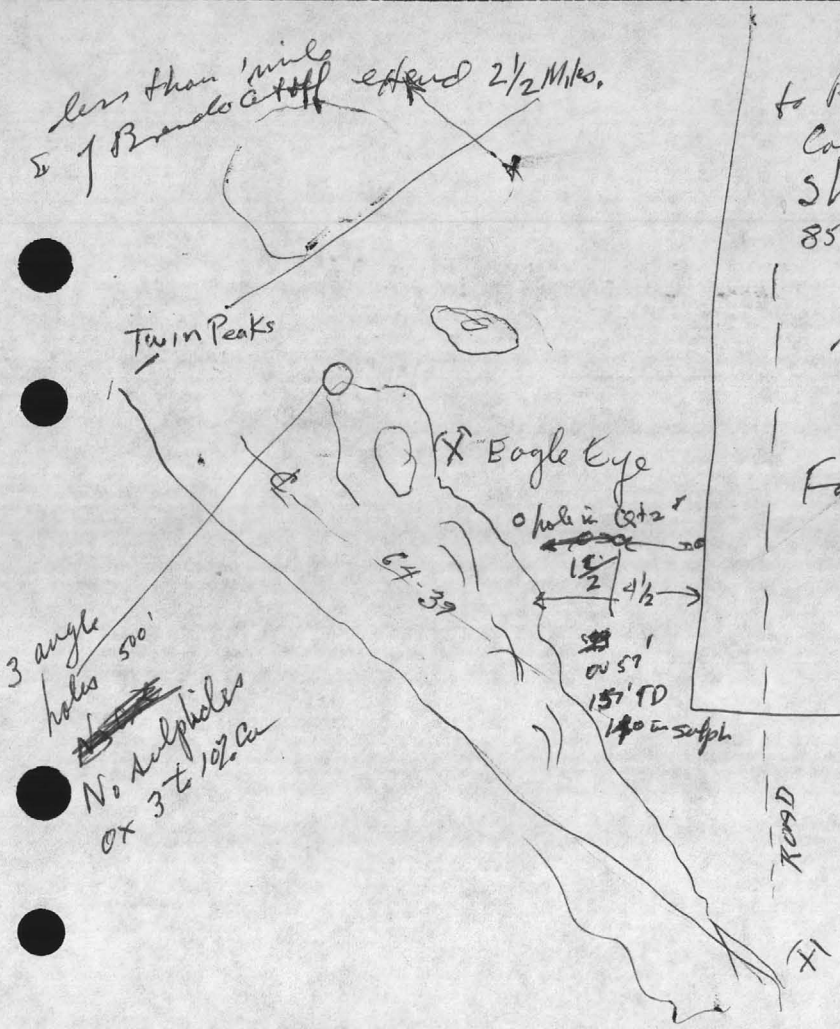
Koenig Aviation
Casa Grande
John Hanke pilot
8:10 AM June 13 1969
Takeoff Salome Airstrip.
Yuma Co Ariz
Areal Reconnaissance
New Water Mtns
Glen Yuma Co Copper

Fly SW to Newwater

8:20 - 8:35 AM

~~Pro~~ Location work seen only near access roads, Bulldozer cuts in alluv. ~~Seen~~ Did not see any pits in Rock. Circled E side to West. The orange oxidized-looking zone which yesterday I thought was hi-angle altered zone, is really an oxidized flow or tuff, cut by faults, but low dipping with the other flows. All rocks seen from south tip up to Eagle Eye mine are fresh. See steep dipping seds striking W or NW up to Eagle Eye.

Return to Salome. 8:40 Turn South to Harquahala Mine, Circle Harquahala. Red dumps & tailings. Red colored sch? On Rd m, several mines with stopes to surface of moderate length and 5-8' wide est.



to Reach Ray Hovater
Call
Sheffler's
859-9337

P.O. Box 206
Salome

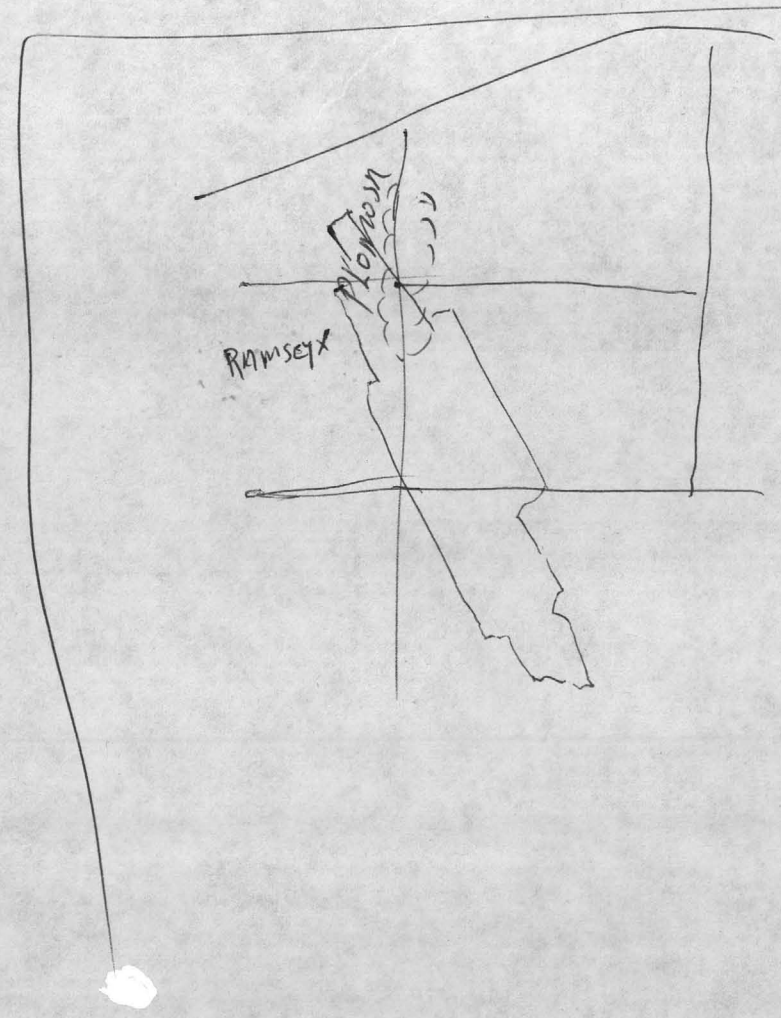
Leave Operators number

Usually Tues Friday
7AM – 3PM

For Emergencies Call Blyth info.
Mt Pass –

Franck Vaughan – will
drive out & deliver message

1000 + Claims
Many monuments
over a large area support
this claim – although
many claims have
not been validated by
the discovery pits required
by Arizona law.



extent of claims
R 17 W
R 15 W
T 2 N
T 4 N

Mr Ray Hovater. Having spent 11 hours in conversation this gentleman, during which he (mostly he) talked about every thing from the great scientists (geologists, Phd,) personal friends who ~~had visited~~ had visited the property here in question, to the time when, at Chateau Thierry in WW I, he led his troops to victory against Kaiser Wilhelms ~~first~~ crack troops, and that, afterward, he personally told off Douglas MacArthur, accusing him ~~of cowardice and saying that he was a~~ of being a yellow coward, I have formed an opinion, or appraisal, of Mr. Hovaters veracity. We are probaly all familiar with the comic strip character, scientist, scholar, historian, Phd, Lld, hero of the Boer War etc, the lovable Major Hoople, ~~of "Our Boarding House"~~. I am convinced that Mr Hovater is, in truth and in fact, a real life major Hoople, and that his entire sequence of reminiscences concerning this property, including the drill hole and alledged copper sulphide, and assays of surface outcrops values, are suspect of being non-existant.

Therefore, I recommend that no expenditure be made until

the ~~pr~~ drill holes ~~and~~ can be found on the ground and verified, and until the surface is ~~thoroughly~~ examined and sampled for the actual copper values which are claimed ~~by Hovater~~. The easternmost drills holes are reported by Hovater to have penetrated copper sulfides ~~at a dep~~ between 100 and 200 feet in depth. This ~~can be~~ presence of sulphides at such a depth can be ~~easily~~ either verified or disproven by an I.P. (induced polarization) expensive depth probe centered over the drill holes.
I recommend that a competant geophysical service group, such as Heinrich's Geo Ex Co run such a probe before any further ~~further~~ expenditure is made on the property.

U. S. HIGHWAY 60 - 70 TELEPHONE 859-9337

PLAN TO STOP

AT

SHEFFLERS'

OF SALOME

Where she danced

RESTAURANT MODERN MOTEL

FAMOUS CACTUS BAR SWIMMING POOL

COOLED BY REFRIGERATION