



CONTACT INFORMATION  
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The following file is part of the John E. Kinnison mining collection

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PROPERTY & PROSPECT REPORT

PROPERTY, COMMODITY Roadside mine (Cu)  
 COUNTY, STATE Pima, AZ  
 DATE 10-16-75 BY J. E. Kinnison

REPORT REVIEWER COMMENT: TO: A. D. Wandke  
No further interest. TWM *Jum*

Examination  Data Review

SUMMARY, CONCLUSIONS, ACTIONS RECOMMENDED No potential for major tonnage. No action recommended.

SCOPE (TIME, DATES, REASONS FOR EXAM.) 10-7-75 field exam. Submittal by W. Knox. Had advised him I would examine when convenient.

INITIAL *JK*

LOCATION & ACCESSIBILITY 1 mile north of Tuc-Ajo Hwy (State 86), 2.1 miles W. of road to San Pedro (Viopuli), and about 33 miles by road SW of Tucson (see attached sketch).

OWNERS & INTERMEDIARIES, ADDRESS, PHONE William Knox, president of Knox-Arizona Corp. 8967 Ladue Road, St. Louis, MO 63124

PROPERTY DESCRIPTION, STATUS Federal claims on Papago Reservation. Details not discussed.

TERMS Not discussed.

HISTORY (PROD. DATA, DEVELOP., EXPLORATION) Main shaft, 800 feet deep. 3 other shallower shafts, all caved. No production recorded.

TOPOGRAPHY, WATER, POWER, TIMBER, LABOR, ETC. Low rolling hills with no nearby facilities

GENERAL GEOLOGY\* Andesitic agglomerate or laharc mudflows (Cretaceous). Typical of Silver Bell fm of Courtright and Richard. Laramide rhyolite ignimbrite (1000 ft.+ thick) is exposed on Bell Mtn. 1.5 miles to east, but is eroded in mine area. No intrusive rocks seen, but "qtz. monzonite material" reported on 800 level by DeKalb in an old private report (Circa 1920).

MINERALIZATION\* Dumps and alluvium cover all former mineral outcrops; nearby hills show no mineralization. Dumps show very sparse chrysocolla, Limonite/py, bleached andesite, and local traces of fine pyrite. Native copper assoc. with epidote reported in Cerro file and by DeKalb

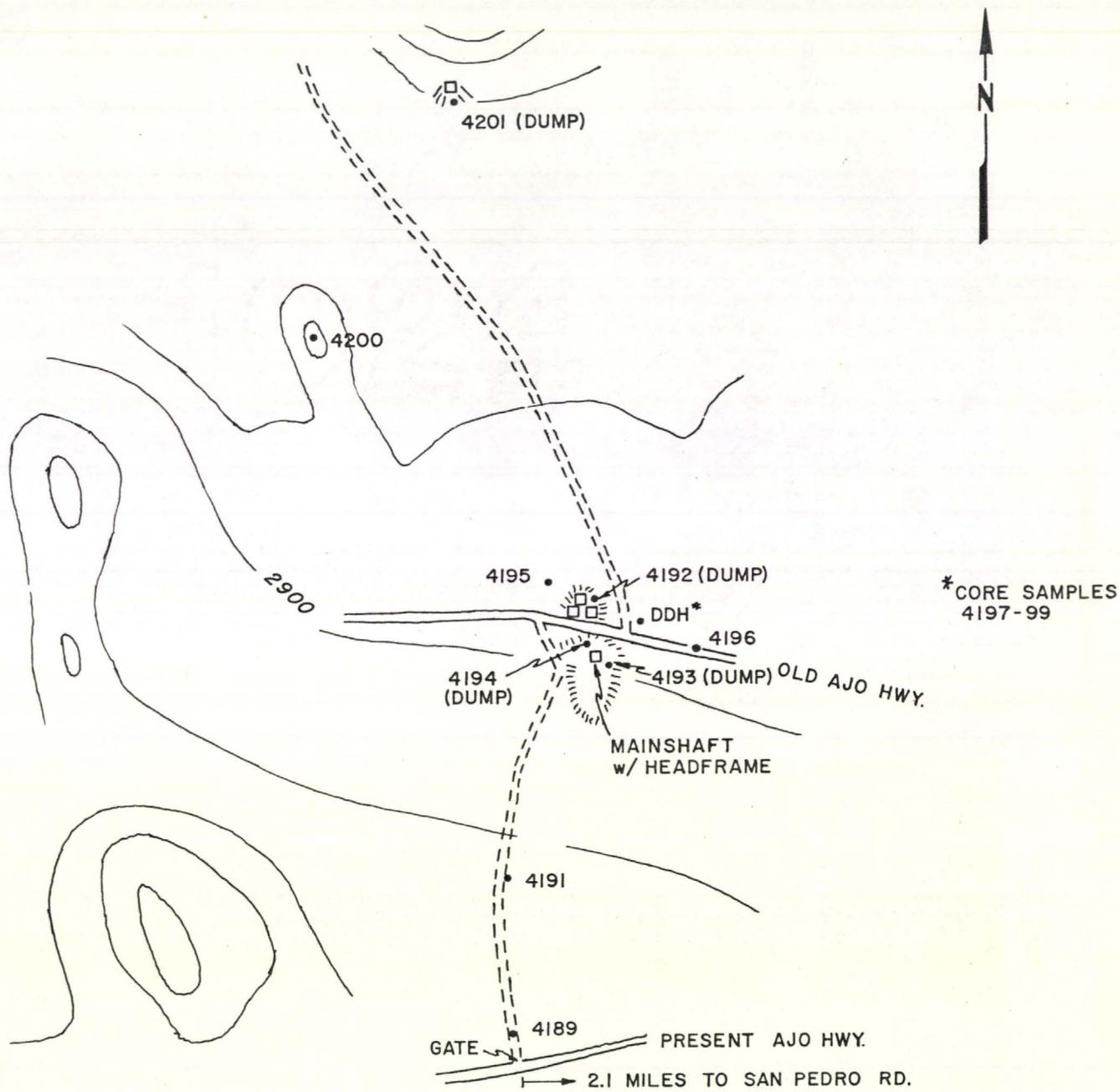
METALLURGY Not studied

RESERVES Unverified report by DeKalb of 40,000 tons 3% Cu in upper levels (Report to Knox- Arizona Corp. by Anthony Lane)

EXPLORATION & DEVELOPMENT RECOMMENDED, COST & TIME None

ATTACHMENTS: A) Location and sample sketch map, B) Geochem. results C) Sample Descr.

\*ATTACH GEOLOGIC MAP, SKETCH OR OTHERWISE, INCLUDING EXAMINER'S OBSERVATIONS WITH EMPHASIS ON MINERALIZATION AND ALTERATION AND THEIR RELATIONSHIPS TO OTHER GEOLOGICAL FEATURES. OTHER DESIRABLE ATTACHMENTS: INDEX MAP, PROPERTY MAP, SAMPLE RESULTS, ETC.



SKETCH MAP  
ROADSIDE MINE

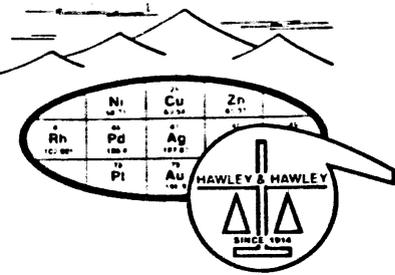
PIMA COUNTY, ARIZ.

SCALE: 1" = 2000'  
CONTOUR INTERVAL: 25 FT.

SKETCHED FROM 1938  
SAN VICENTE QUAD.

JEK 10/7/75

ATTACHMENT A



# SKYLINE LABS, INC.

Hawley & Hawley, Assayers and Chemists Division  
 1700 W. Grant Rd., P.O. Box 50106, Tucson, Arizona 85703  
 (602) 622-4836

*William L. Lehbeck*  
 Charles E. Thompson  
 Arizona Registered Assayer No 9427

William L. Lehbeck  
 Arizona Registered Assayer No 9425

## CERTIFICATE OF ANALYSIS

ITEM NO.	SAMPLE IDENTIFICATION	Cu ppm	Mo ppm						
1	4189	35	< 2						
2	4190	5	< 2						
3	4191	10	< 2						
4	4192	15	< 2						
5	4193	350	< 2						
6	4194	2700	< 2						
7	4195	60	< 2						
8	4196	10	< 2						
9	4197	30	< 2						
10	4198	10	< 2						
11	4199	15	< 2						
12	4200	20	< 2						
13	4201	40	< 2						

TO: Pangea Resources  
 202 North Forbes Blvd., Suite 101  
 Tucson, Arizona 85705

REMARKS: Trace analysis  
 \* No number on sample.

CERTIFIED BY: *William L. Lehbeck*



**ATTACHMENT B**

DATE REC'D: 10/9/75      DATE COMPL.: 10/13/75      JOB NUMBER: 752232

Attn.: Mr. J. E. Kinnison

JEK 10-7-75

Roadside

- 4189 - Silver Bell fm. Near present Ajo Rd. south of Roadside shaft.  
No visible alt.
- 4190 - Granite float-background sample
- 4191 - 1000' N of 4189 and 1500' S of Roadside shaft: typ.-looking Ksb  
with frags. No min. vis.
- 4192 - Hard dense Ksb from dump N of old Ajo Rd. Chl alt. (subdued)
- 4193 - oxidized dump sample, Jarosite after pyrite, st. ser + bleaching  
(clay) and  $\pm$  1% casts after py. (main shaft).
- 4194 - Dump sample - some goethite on frags.
- 4195 - trench 500' N30W from main shaft, st. goethite flooding of rock--  
origin apparently vy fine diss. grains py. Rock fn-gr--not specifi-  
cally identified--could be Ksb.
- 4196 - Road cut 500' E of main shaft. Ksb--purple. No miner. or alt. at all.
- 4197 - Old DDH 250-300', N56E from main shaft. Ksb-Core NC to Ax. NC and  
NX generally fresh but vy occas. lim seam after sulf. Ax pieces  
generally have epidote throughout. Core in general disarray near  
collar. (this sample NC pieces)
- 4198 - NX pieces
- 4199 - BX-Ax pieces
- 4200 - Ksb hill top 2000' NW of main shaft
- 4201 - Dump 100' shaft; Bell No. 1 - May 20, 1955 Ed Stone. Ksb - Geothite  
on seams. Base of hill of Ksb. 2500' N of main shaft and 800' NE  
of 4200'.

ATTACHMENT C

To A. D. Wandke  
FROM THOMAS W. MITCHAM  
DATE 11-1-74

PROPERTY & PROSPECT REPORT

REPORT REVIEWER COMMENT: No further interest.

PROPERTY, COMMODITY Las Guijas, Cu Mo  
COUNTY, STATE Pima, AZ  
DATE Nov. 1, 1974 BY John E. Kinnison

Examination  Data Review

SUMMARY, CONCLUSIONS, ACTIONS RECOMMENDED A zone of weak pyritic mineralization 1/2 x 3/4 miles is fronted by Alluvium. Mo geochem strong, Cu weak. Exposed area not attractive, and covered extension has been adequately explored by Quintana drill holes. No action recommended. Owner advised 9/6/74. INITIAL JK

SCOPE (TIME, DATES, REASONS FOR EXAM.) Review primarily for data collection purposes. Conference with Clark Arnold on Quintana drilling strengthens conclusions.

LOCATION & ACCESSIBILITY Reached by a dirt road from Sasabe highway to the Arivaca road (map attached).

OWNERS & INTERMEDIARIES, ADDRESS, PHONE William Lundby, 8840 Wrightson Road, 85715. 885-0941. Tucson

PROPERTY DESCRIPTION, STATUS Federal and State land

TERMS \$7,500 front plus participation

HISTORY (PROD. DATA, DEVELOP., EXPLORATION) Drilling by Austral oil and Quintana

TOPOGRAPHY, WATER, POWER, TIMBER, LABOR, ETC.

GENERAL GEOLOGY\* Laramide intrusives form core of Las Guijas Mts. (map attached). Major range-front fault 1/2 mile west of outcrops.

MINERALIZATION\* Generally spotty and less than 1% lim/py in alaskite (see map). Best limonite (after chalcocite) near Q-1 was not found in adjacent drill holes. The Mo geochem anomaly and some molybdenite was found in drill holes, but not of sufficient grade to be commercial.

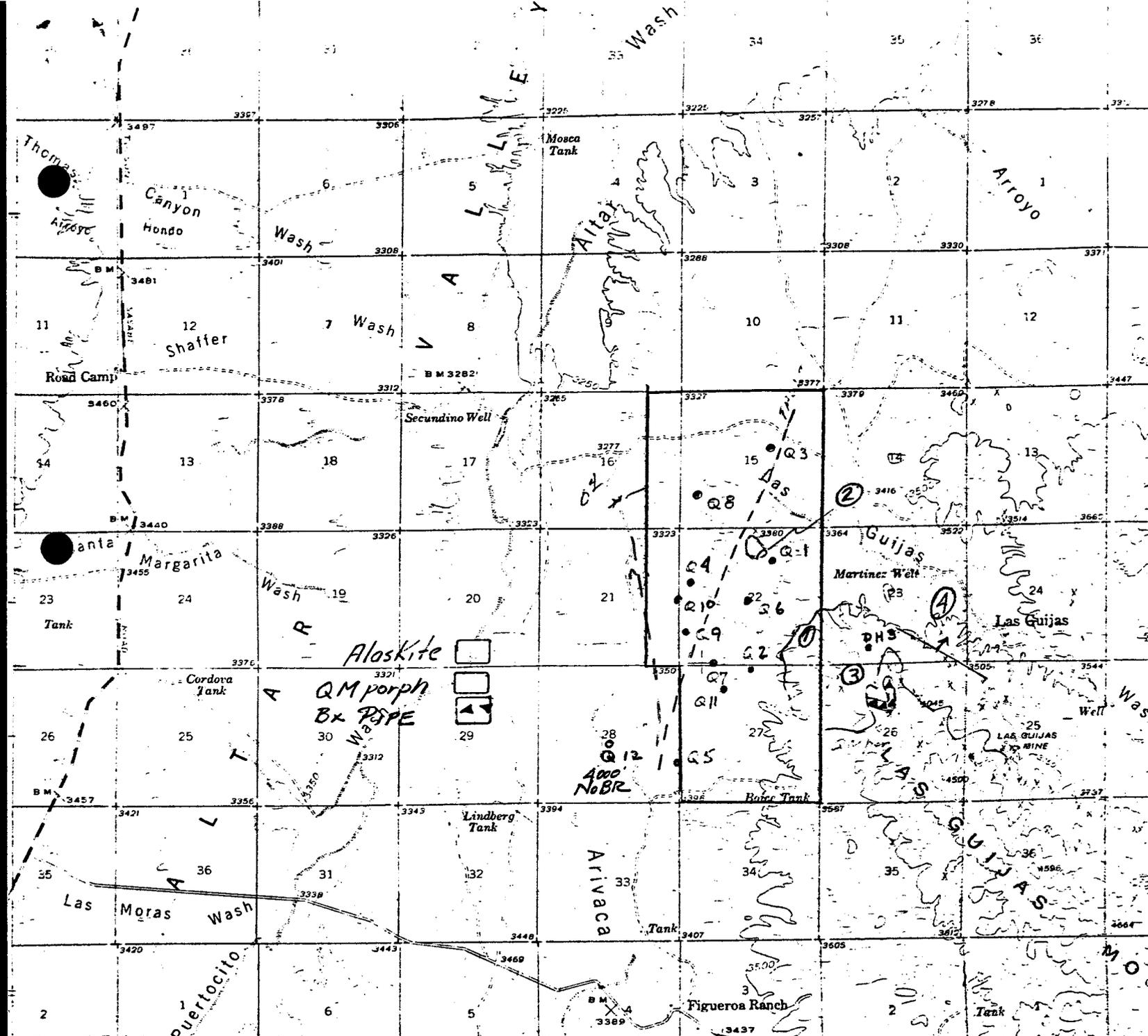
METALLURGY

RESERVES

EXPLORATION & DEVELOPMENT RECOMMENDED, COST & TIME

ATTACHMENTS A) Geol. sketch (In Tucson files: drill logs, IP plot, Lundby report)

\*ATTACH GEOLOGIC MAP, SKETCH OR OTHERWISE, INCLUDING EXAMINER'S OBSERVATIONS WITH EMPHASIS ON MINERALIZATION AND ALTERATION AND THEIR RELATIONSHIPS TO OTHER GEOLOGICAL FEATURES. OTHER DESIRABLE ATTACHMENTS: INDEX MAP, PROPERTY MAP, SAMPLE RESULTS, ETC.



- ① NW Tip of ridge is high-py zone and has brick-red capping.
- ② Small outcrop of st. alt. and limonite derived from chalcocite
- ③ Ridge is spotty alt (WK) and pyritic capping. LCA est. 1/2-1% orig. py
- ④ Rock east of fault is volcanic

Pozo V  
 BM 3552  
 11  
 Fuertocit  
 14  
 23

Tank  
 BM 3466  
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 Wash  
 Well  
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## CERRO MINERAL EXPLORATION COMPANY, INC.

SUBSIDIARY OF CERRO CORPORATION

EXPLORATION MANAGERS, GEOLOGIC &amp; MINING CONSULTANTS

2002 N. FORBES BLVD., SUITE 101  
TUCSON, ARIZONA 85705  
(602) 623-6316

September 6, 1974

Mr. William Lundby  
8840 Wrightstown Road  
Tucson, Arizona 85715BLIND SUBJECT: Las Guijas Mining District,  
Copper-Molybdenum Deposit  
Pima County, Arizona

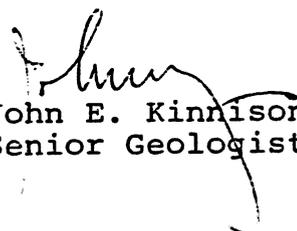
Dear Bill:

I have been unable to reach you by telephone, so I am sending you this letter regarding the maps which you kindly left with me to review.

I am leaving town next week, and the maps and other data will be available to you Monday morning at the receptionist's desk for your further use. After a review of the information, it would appear that the prospect is not quite suited for our company at this time. However, the widespread molybdenum values are certainly unusual, and if at a later date we become more involved in that area we will be glad to have this information regarding your property position, and geologic information.

Thank you for giving us this opportunity to consider the property, and I wish you every success in your continued efforts to obtain some favorable action.

Yours very truly,

  
John E. Kinnison  
Senior Geologist

JEK/mb

B.11 Lundby - has Grunjos 9/3/74 885-0941  
8840 Wrightstown Rd 85715

7500 Front to associate  
wants participation -- possibly  
a substantial carried interest -  
but this may not be work firm.

Target -

Mo deposit beneath a pyritic  
alabaster shell.

Review of Quntave maps of Clock Arnold -

Mo is anomalous over the ridge NW from  
Bx area - as Lundby claimed. 5-40 ppm.

1/2 - 1% sulphides indicated by luminescence.  
Spotty with better zones locally.

NW Tip is a brick red high-py area.

Also found a good high lum area at other -

This accounted for  
Quntave drilling -



(Bx)

**RIOAMEX-CERROMIN**  
ARIZONA - NEW MEXICO JOINT VENTURE

2002 N. FORBES BLVD., SUITE 101  
TUCSON, ARIZONA 85705  
(602) 623-6316

October 25, 1974

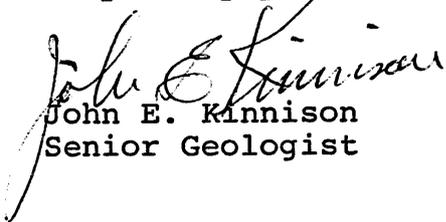
Mr. Jack Pemberton  
4454 S. Mission Road  
Tucson, AZ 85714

Dear Mr. Pemberton:

Your associate, Mr. Chapin, reached me by telephone yesterday, to ask about our decision regarding the claims which you hold near the Glove Mine, and also south of the Pauline Mine, both in the Santa Rita Mountains. I was able to locate notes and file data from previous work in these areas, and I am sorry to advise you that based on these earlier examinations, I conclude that the properties would not be of interest to us at this time.

I wish to thank you for bringing them to our attention, however, and wish you every success in their placement with a mining company.

Very truly yours,

  
John E. Kinnison  
Senior Geologist

JEK/mk

**RIOAMEX-CERRROMIN**  
ARIZONA - NEW MEXICO JOINT VENTURE

2002 N. FORBES BLVD., SUITE 101  
TUCSON, ARIZONA 85705  
(602) 623-6316

October 25, 1974

MEMO TO: Thomas W. Mitcham  
FROM: John E. Kinnison *JK*  
SUBJECT: Glove and Pauline area submittals, Pima County, AZ

Tom Chapin telephoned on October 24 to inquire of our decision regarding properties they hold near the Glove Mine, and also near the Pauline Mine, both in the Santa Rita Mountains.

I have a limited amount of field data on the Glove area, and it would seem unlikely that a deposit of interest to Rioamex could there exist without being known to us already. The area is totally exposed and the mineralization appears to be small, and restricted to breccia pipes, or else related to limestone replacements at the Glove Mine. The breccia pipes are geochemically high in molybdenum and relatively low in copper. The area near the Pauline Mine is also totally exposed, and it is unlikely that a major deposit there exists without our knowledge. Of passing interest, previous work by Mel See has found that a small porphyry is exposed in Sec 26 and 27, T 17 S, R 16 E, near the Pauline Mine. The porphyry, according to See, is weakly pyritized and has been tested by four short drill holes. Surface and drill hole geochemical values are about 100 ppm Cu, and 2 ppm Mo. The claims presented are south of this area, but it is clear that Mr. See did not find attractive looking float in the drainages from the higher elevations to the south.

No new ideas or concepts were presented by the owners. Accordingly, I have written Jack Pemberton, Mr. Chapin's associate, that no action will be taken on these properties.

JEK/mk

TO: A. D. Wandke  
FROM: Thomas W. Mitcham *Jam*  
DATE: 10-25-74

**RIOAMEX-CERROMIN**  
ARIZONA - NEW MEXICO JOINT VENTURE

2002 N. FORBES BLVD., SUITE 101  
TUCSON, ARIZONA 85705  
(602) 623-6316

October 23, 1974

Mr. Leslie Lawrence  
1349 W. Kleindale Road  
Tucson, AZ 85705

Stevens Mt. Copper prospect  
Pima County, AZ

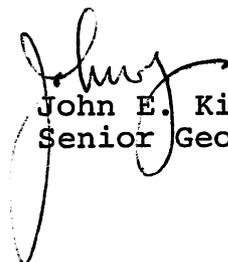
Dear Leslie:

I have now had a chance to review the geophysical data and to gather my old notes from previous work in the district for study. I am afraid that we will not be able to undertake work on your Sierrita Mountain project at this time, but I wish you every success in your further efforts to place this property.

The maps which you left with us are at the receptionist's desk where you may get them at your convenience. If I am in when you stop by, I will be very happy to discuss the property with you.

Best regards,

Very truly yours,

  
John E. Kinnison  
Senior Geologist

JEK/mk

*JEK copy*

# PROPERTY & PROSPECT REPORT

REPORT REVIEWER COMMENT: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

PROPERTY, COMMODITY Stevens Mountain Copper  
COUNTY, STATE Pima, Arizona  
DATE 10/17/74 BY John E. Kinnison

Examination  Data Review

SUMMARY, CONCLUSIONS, ACTIONS RECOMMENDED Concept that the West Sierrita district (Pb, Zn, Ag) could represent a district zoning halo with a covered copper center is valid. No action is recommended, however, on the subject submittal unless district study is programmed.

SCOPE (TIME, DATES, REASONS FOR EXAM.) Data submittal and office conference 10/10/74. Under-  
took initial IP evaluation before further negotiation. INITIAL *JEK*

LOCATION & ACCESSIBILITY Roads from Sasabe Highway.

OWNERS & INTERMEDIARIES, ADDRESS, PHONE Leslie Lawrence, 1349 W. Kleindale, Tucson, AZ  
87-3205

PROPERTY DESCRIPTION, STATUS State prospecting permits to Lawrence and others

TERMS No front money; work committment; details and purchase price not stated.

HISTORY (PROD. DATA, DEVELOP., EXPLORATION) IP Survey; 100 and 500 ft a-spacing time-domain. Anomaly interpreted by Gordon Weiduwilt to be largely a "fence" effect.

TOPOGRAPHY, WATER, POWER, TIMBER, LABOR, ETC. \_\_\_\_\_

GENERAL GEOLOGY\* \_\_\_\_\_

MINERALIZATION\* Drill hole 11; 2<sup>7</sup> diss py with traces of chalcopyrite. Collared in outcrop. TD 280 ft.

METALLURGY \_\_\_\_\_

RESERVES None

EXPLORATION & DEVELOPMENT RECOMMENDED, COST & TIME None

ATTACHMENTS: File Memo

\*ATTACH GEOLOGIC MAP, SKETCH OR OTHERWISE, INCLUDING EXAMINER'S OBSERVATIONS WITH EMPHASIS ON MINERALIZATION AND ALTERATION AND THEIR RELATIONSHIPS TO OTHER GEOLOGICAL FEATURES. OTHER DESIRABLE ATTACHMENTS: INDEX MAP, PROPERTY MAP, SAMPLE RESULTS, ETC.

**RIOAMEX-CERROMIN**  
ARIZONA - NEW MEXICO JOINT VENTURE

2002 N. FORBES BLVD., SUITE 101  
TUCSON, ARIZONA 85705  
(602) 623-6316

October 17, 1974

MEMO TO: File

FROM: John E. Kinnison *JEK*

SUBJECT: Stevens Mt. Copper prospect, Pima County, AZ

The subject property was submitted by Leslie Lawrence of 1349 W. Kleindale Rd., Tucson, AZ. Home telephone number: 887-3205.

The prospect, which is situated on the northwest flank of the Sierrita Mountains and on the northwesterly edge of outcrop, was represented to be a potential copper prospect surrounded by a regional lead/zinc district (the old mines of the west Sierrita Mts. have made a small production of lead, zinc, and silver from replacement deposits).

The merit of the Stevens mountain prospect rested largely on an IP anomaly obtained by Jim Sorrel, an individual contractor. The anomaly, which is about a mile in diameter, was obtained by 100 and 500 foot a-spacing, and by a single 1000 foot a-spacing. The anomaly partially overlaps a granitic rock of probable mesozoic age, which may contain a small amount of disseminated pyrite as indicated by a single drill hole (No. 11). The IP anomaly had been obtained by running lines across and parallel to grounded fences, and was suspected of being false. Gordon Wieduwilt of Mining Geophysical Services examined the data for me, and suggested that much of the IP response was undoubtedly due to fence effects. He detected two small anomalies which can be considered valid indicators of sulphides, but the remainder of the anomaly can not be interpreted. The IP data, being of deficient calibre, was not reproduced for the files.

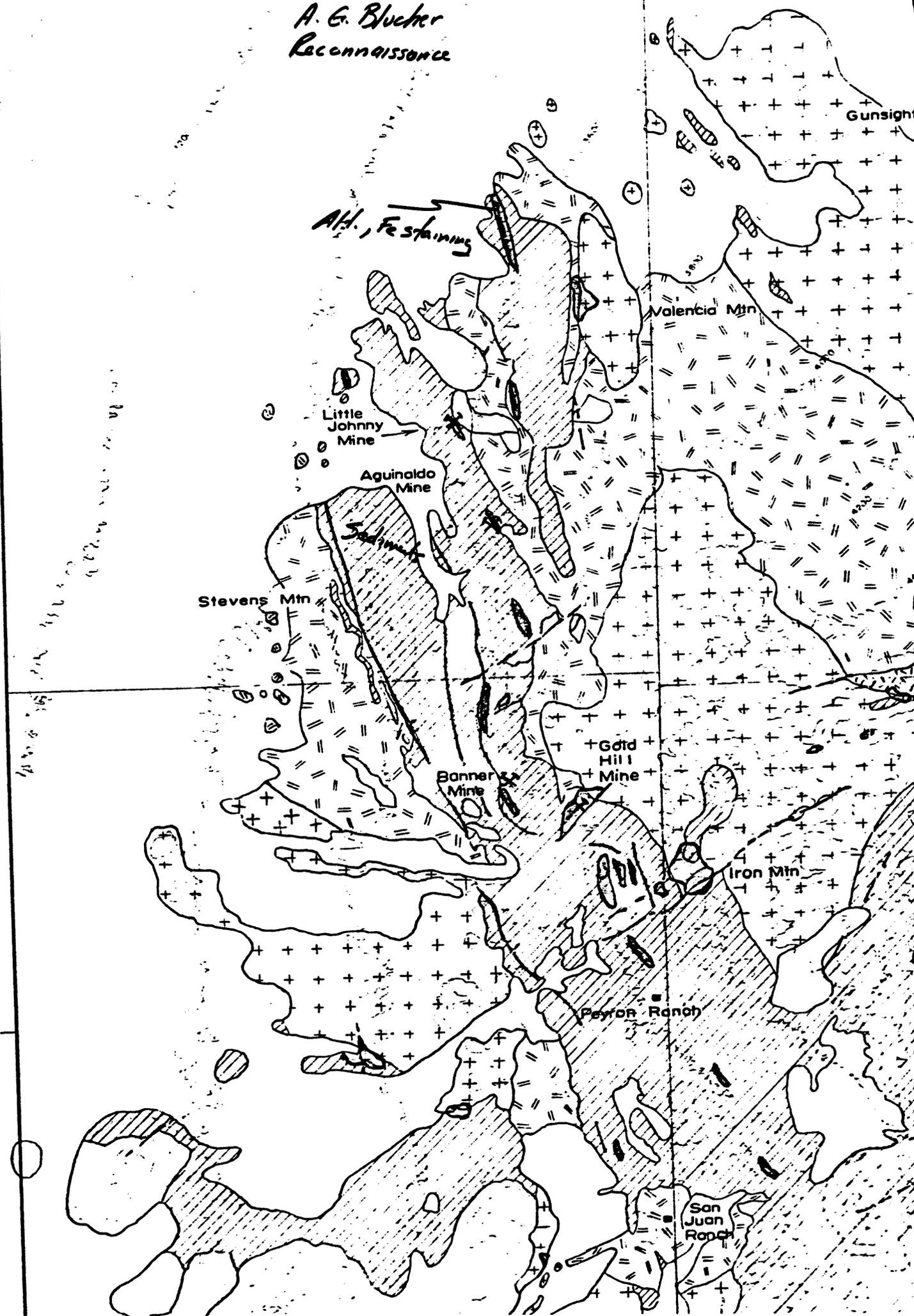
Previous reconnaissance by A. G. Blucher in this area had failed to indicate even weak porphyry copper type mineralization at the age of alluvial cover, and in the lack of a valid IP response there is no justification at this time for further consideration of the Stevens prospect.

The concept that the Pb/Zn/Ag district might be a marginal zone around a copper center covered by alluvium could, however, be considered as a possible district study in the future.

JEK/mk  
Attachments



A. G. Blucher  
Reconnaissance



# STEVENS MOUNTAIN PROJECT

T17S, R10E  
SECTION 34 (NW4)

102 FT. (AIR DRILL) VALIDATION HOLE

Charles E. Thompson  
Arizona Registered Assayer No. 9427  
William L. Lehmbbeck  
Arizona Registered Assayer No. 9425

SKYLINE LABS, INC.  
Hawley & Hawley, Assayers and Chemists Division  
1700 W. Grant Rd., P.O. Box 50106, Tucson, Arizona 85703  
(602) 622-4835

## CERTIFICATE OF ANALYSIS

SAMPLE IDENTIFICATION	GOLD	SILVER	LEAD ppm	ZINC ppm	COPPER ppm	MO ppm
<i>Locate valid hole #13 cuttings</i>						
P - 1642 60 - 70'			190	55	10	< 2
1643 70 - 80'			350	45	10	< 2
1644 80 - 90'			420	55	10	< 2
1645 90 - 100'			210	50	15	< 2
P - 1646 90 - 102'			175	30	5	< 2

TO: Minerals Exploration Company  
1708 West Grant Road  
Tucson, Arizona 85705

CERTIFIED COPY: *[Signature]*  
(Pulverized sample) \$2.50  
PREPARATION \$2.50  
ANALYSIS \$16.75

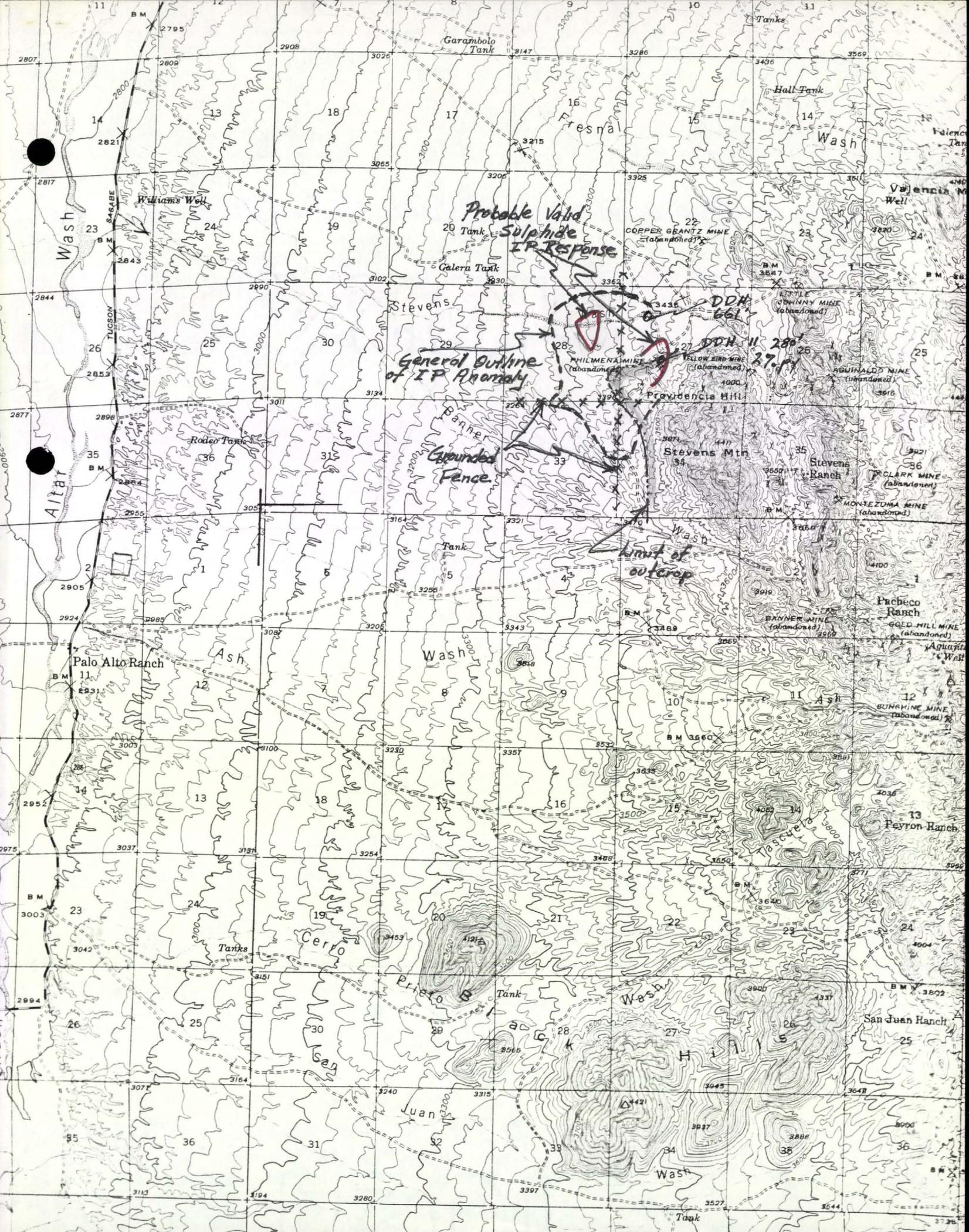


REMARKS:  
Trace analysis  
5 Copper, Lead & Zinc @ \$2.10  
5 Molybdenum @ \$1.25

SUBSIDIARY OF UNION OIL CO.

Attn.: Mr. P. H. Pickard

DATE REC'D: 4/9/74  
DATE COMPL.: 4/10/74  
JOB NUMBER: 740605  
\$ 19.25



*Probable Valid Sulphide IP Response*

*General outline of IP Anomaly*

*Circled Fence*

*Limit of outcrop*

DDH 661

DDH II 280  
27.01

Garambolo Tank

Hall Tank

Stevens

Stevens Mtn

Williams Well

Valencia Well

Rodeo Tank

Pacheco Ranch

Palo Alto Ranch

GOLD MILL MINE (abandoned)

Cerro Prieto

Peyron Ranch

Juan

San Juan Ranch

Wash

Wash

Ash

Aitar

Banner

Wash

Ash

Trascueta

Wash

Wash

Wash

Tank



File  
Tucson, Arizona

November 3, 1971

John E. Kinnison  
Tucson, Arizona

Gibson, Arroya, Pima County,  
Arizona

Jack Terry s subject property is now considered postponed until an indefinite point in the future. I have been on part of the property some years ago, and it is unlikely that the property would be of interest to Kaiser. Terry has been retained until now on the active list simply as a contact in the Ajo vicinity. He may remain so noted if work is ever done in that area.

JEK/bl

Perma County  
Zinc

Keith Miller  
N.P.S.  
Death Valley  
National  
Monument  
Death Valley, CA  
(714) 786-2331

ALVIN H. LENSE  
U.S. NAT. PARK SERVICE  
450 GOLDEN GATE  
SAN FRANCISCO, CA.