



CONTACT INFORMATION
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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

The following file is part of the Walter E. Heinrichs, Jr. Mining Collection

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Gulf Mineral Resources Co.

2045 North Forbes Blvd
Suite 106
Tucson, AZ 85745

February 28, 1983

Walter E. Heinrichs, Jr., President
Heinrichs GEOExploration Company
P. O. Box 5964
Tucson, Arizona 85745

Re: Arizona State Prospecting Permit No. 83801
La Paz County, AZ (TAO 80-21)



Dear Mr. Heinrichs:

Gulf Mineral Resources accomplished the following annual labor and expenditures for the Arizona state prospecting permit number 83801 which is located in the eastern half of Section 36 of T4N R21W, La Paz County, AZ.

1. Field expenses for 5 days field work . . .	\$ 250
2. Salary and benefit charges for 5 days. . .	1,100
3. Geochemical analyses of 10 samples . . .	300
4. Air photo interpretation by Geoscience Dept.	200
5. Drafting costs	50
Total expenditures	<u>\$1,900</u>

Enclosed are assay sheets for the analyzed samples and the geologic data from the mapped area. This work was accomplished by Joe Wilkins, geologist from the Tucson office, and by P. V. Furgason of the Denver office. Please contact me if you need clarification of these items.

Sincerely,

Norman E. Lehman
Area Geologist

NEL/jw



A DIVISION OF GULF OIL CORPORATION

TELEPHONE (602) 882-4030



HEINRICHS GEOEXPLORATION COMPANY

P.O. BOX 5964, TUCSON, ARIZONA 85703, 806 WEST GRANT ROAD, PHONE: (602) 623-0578

September 6, 1983

Amoco Minerals Company
Post Office Box 3299
Englewood, CO 80155

Attention: Mr. ~~M. T. Nesbitt~~

Jerry J. Bensing

Re: La Paz, Arizona - Heinrichs -
Assignment of State Prospecting
Permit No. 83801

Gentlemen:

As requested in your letter of August 30, 1983, we have signed and are returning herewith the assignment form conveying Prospecting Permit No. 83801 to Amoco Minerals Company.

Thought we should point out that Mr. Bauer's has not been notarized.

Sincerely,

Walter E. Heinrichs, Jr.
Walter E. Heinrichs, Jr., Pres.

WEH:mt
Enclosure

CC: WCH
RIL ✓
JDL



M.T. Nesbitt
Land Supervisor



Amoco Minerals Company

7000 South Yosemite Street
Post Office Box 3299
Englewood, Colorado 80155
Negotiations & Land Department
303-740-5283

August 30, 1983

Mr. Walter E. Heinrichs, Jr.
President
Heinrichs Geoexploration Company
P.O. Box 5964
Tucson, Arizona 85703

Dear Walt:

LA PAZ, ARIZONA - HEINRICHS - Assignment of State Prospecting Permit No. 83801

Please find enclosed for your signature, on behalf of Heinrichs Geoexploration Company, the assignment form conveying Prospecting Permit No. 83801 to Amoco Minerals Company. As Jerry Bensing and you discussed earlier, this assignment is for the convenience of not having to submit our entire agreement to the Arizona State Land Department for approval. This assignment does not modify or amend our Sublease and Mining Lease With Option to Purchase dated August 3, 1983. Subject to Amoco's option to purchase all of Heinrichs' right, title and interest in the defined Premises and upon the termination of the sublease and lease agreement, Amoco will assign the Prospecting Permit to Heinrichs.

You should sign and return the assignment form to Jerry Bensing. He will file it with the state. You will be copied on all correspondence. Call either Jerry (303-740-5279) or myself if you have any questions.

Best regards,

Mark Nesbitt

MTN:tms

J. J. Bensing
W. D. Burton
J. C. Hiatt
W. P. Taylor

Enc.

NOTE:

Failure to comply with A.R.S. 33-401 (the so-called Blind Trust Law) may render this assignment void. Strict compliance with the instructions on the reverse hereof may assist you to avoid that result.

ARIZONA STATE LAND DEPARTMENT
1624 West Adams
Phoenix, Arizona 85007

APPLICATION TO ARIZONA STATE LAND DEPARTMENT (hereinafter called ASLD) TO ASSIGN AND FOR ASSUMPTION OF INTEREST, RIGHT OR PRIVILEGE IN STATE LANDS.

The undersigned Heinrichs Geoexploration Company (hereinafter called Assignor) not being in default of payments due ASLD and of State, County and Municipal taxes thereto related, do hereby apply for permission to assign and do request ASLD to assign all right, title and interest of the Assignor in and to ASLD Prospecting Permit instrument No. 83801 dated March 17, 1982 for the following described property:

E/2 Section 36
Township 4N Range 21 West G&SRB&M, Arizona containing 320.00 acres, more or less, to Amoco Minerals Company
Assignee, and as an inducement to ASLD's approval of this assignment, Assignor represents to ASLD that the name, address, age, citizenship and marital status of each of the beneficiaries, principals or wards for whom the Assignor held and presently holds title in said instrument are:

NAME	ADDRESS	AGE	CITIZEN- SHIP	MARITAL STATUS
Heinrichs Geoexploration Company	P.O. Box 5964 Tucson, Arizona 85703			

and the assignor identifies the trust or other agreement under which the undersigned holds title as N/A or the proper description by reference to book, page and document number of file of the instrument, order, decree or other writing, which is of record in the County in which the related land is located in which such matters shall appear is as follows: N/A

By and with the consent of the State Land Commissioner, and in consideration of the sum of ten Dollars (\$ 10.00) paid to the Assignor by Assignee, the Assignor does hereby assign, transfer and sell unto the said Assignee:

Amoco Minerals Company
and Assignee's heirs, successors and assigns, all right, title, interest and claim of the Assignor in and to the above described interest, right or privilege and in and to such part or all of said ASLD Prospecting Permit No. 83801 instrument as is necessary to effect said assignment.

Subscribed to by the undersigned at Tucson, County of Pima, State of Arizona on the 6th day of September A.D. 1983.

STATE OF ARIZONA)
COUNTY OF PIMA) ss

This instrument was acknowledged before me, the undersigned, this 6th day of SEPT, 1983, by Walter E. Heinrichs, Jr.

My commission expires: 11-16-84

Heinrichs Geoexploration Company
Assignor
By: Walter E. Heinrichs, Jr.
Assignor Walter E. Heinrichs, Jr., President
P.O. Box 5964
Address Tucson, Arizona 85703

Mary H. Turner
Notary Public

APPLICATION FOR THE ASSUMPTION OF ASSIGNOR'S INTEREST DESCRIBED ABOVE

The undersigned, Amoco Minerals Company (hereinafter called Assignee) of Englewood County of Arapahoe State of Colorado and being years of age, and a citizen of the United States and being otherwise qualified to hold the interest of Assignor assigned above to Assignee, does hereby apply for the transfer and assignment to the Assignee of all of the right, title and interest of the Assignor as described above, together with the right of Assignee thereafter to hold the same under the terms of said instrument, and as an inducement to ASLD's approval of this assignment, Assignee represents to ASLD that the name, address, age, citizenship and marital status of each of the beneficiaries, principals or wards for whom the Assignee will hold title in said instrument are:

NAME	ADDRESS	AGE	CITIZEN- SHIP	MARITAL STATUS
Amoco Minerals Company	7000 S. Yosemite Street P.O. Box 3299 Englewood, Colorado 80155			

and the Assignee identifies the trust or other agreement under which the Assignee will hold title as N/A or the proper description by reference to book, page and document number of file to the instrument, order, decree or other writing, which is of record in the County in which the related land is located in which such matters shall appear is as follows: N/A

In consideration of the approval of this Application to Assign the Assignor's interest described above, the Assignee agrees to all and singular the covenants, conditions and requirements contained in said ASLD instrument to be kept, performed and observed by the Assignor, and to assume and all the obligations therein assumed by Assignor above, and to that effect bind the heirs, executors and assigns of the Assignor.

(Sign here) By: H.L. Bauer, Jr.
Amoco Minerals Company
Assignee Vice President

Assignee
Address 7000 S. Yosemite Street, P.O. Box 3299
Englewood, Colorado 80155

STATE OF Colorado)
COUNTY OF Arapahoe) ss

This instrument was acknowledged before me, the undersigned this day of September, 1983, by H.L. Bauer, Jr.

My commission expires

February 5, 1986

(SEAL)

Notary Public



GOLD FIELDS MINING CORPORATION
A Consolidated Gold Fields Group Company

Please reply to the address indicated.

☒ P. O. Box 329
1201 West Ninth Street
Yuma, Arizona 85364
Telephone (602) 782-1695

☐ 200 Union Boulevard—Suite 500
Lakewood, Colorado 80228
Telephone (303) 988-0360/Telex 45-653

Telecopier (303) 989-6786

April 17, 1985

Walter Heinrichs, Jr.
Heinrichs Geoexploration Co.
P.O. Box 5964
Tucson, AZ 85703



Dear Mr. Heinrichs:

Thank you for sending us your SE Property summary sheet located in La Paz County, Arizona. I will review the data for any developments since the last time this property was submitted to Gold Fields.

Frankly, I thought Rich Lundin was going to submit several properties from the Prescott area. Do you know anything about those properties?

Sincerely,

Bruce Yeomans

Bruce Yeomans
Geologist

BY:rl

Ans: Sorry, I cannot directly help you regarding the Prescott area properties that Rich apparently mentioned. But, I will forward to him a copy of this and maybe that will prompt him to get with it! Meanwhile, I assume you will get back to me in due course on the SE property. Many thanks for your prompt response in acknowledging receipt of the summary data.

WHL

Encl Copy: R. Lundin.



February 28, 1984

W. E. Heinrichs, Jr.
Heinrichs Geoexploration Co.
P. O. Box 5964
Tucson, Arizona 85703

Amoco Minerals Company

U.S.A. Minerals Exploration
7200 South Alton Way
P.O. Box 3986
Englewood, Colorado 80155
303-740-5638



SE Claims, La Paz Co., Arizona

A. G. Humphrey has requested that I send you copies of the results of work performed on your SE Claim group, while it was part of Amoco's La Paz project.

Enclosed are copies of a drill hole log (SE-1), surface geochem results, and a location map for the above work. My understanding is that the core from this project is still in our Parker, Arizona, core shack. I will be in Arizona shortly and will make arrangements to deliver the reference half of the core during March.

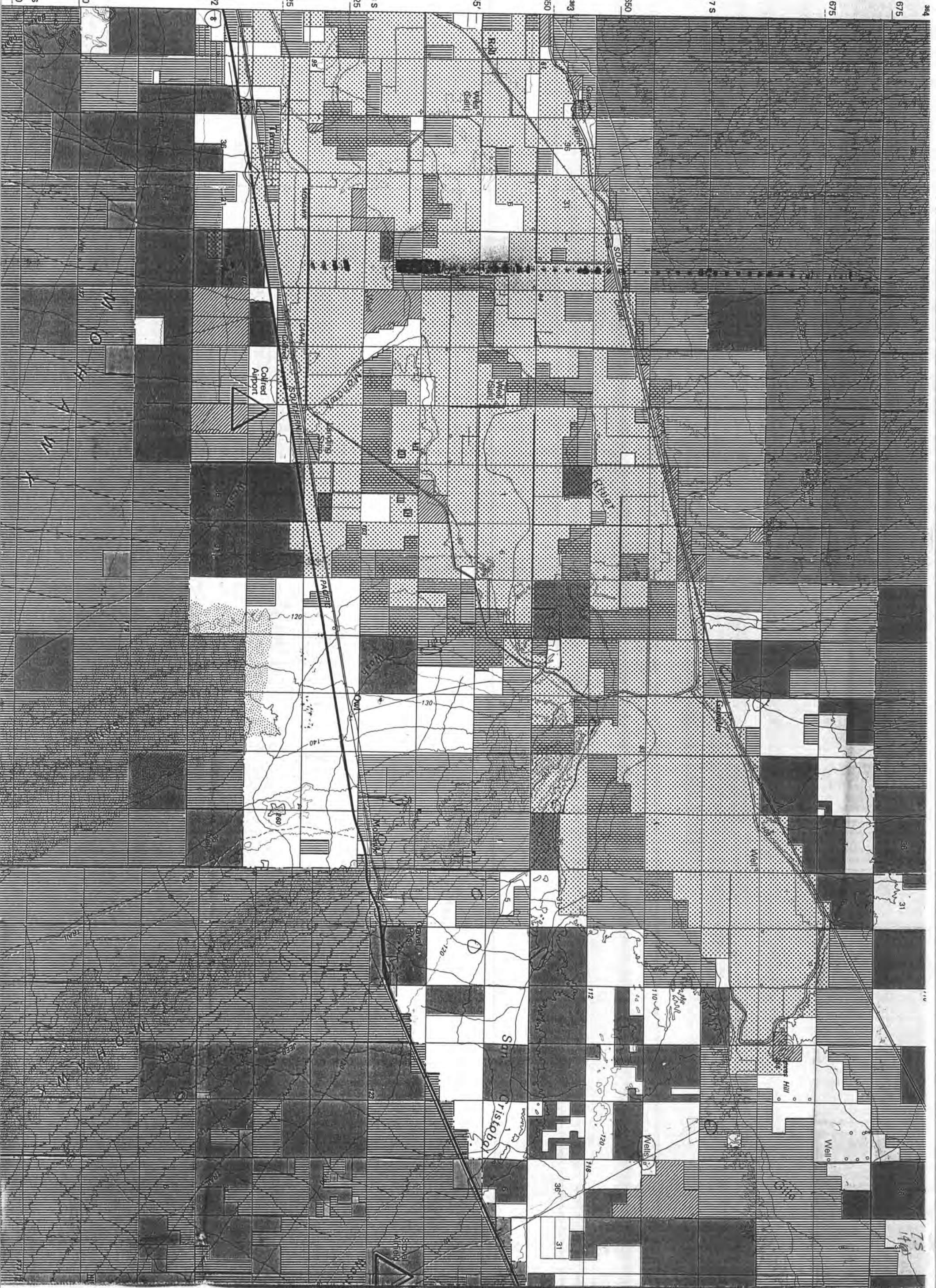
Sincerely,

C. A. Rautman
Project Geologist

CAR/ams

enclosures

*Leivings
Preliminary
24-25 April?
23-28 -*





February 21, 1984

Amoco Minerals Company

U.S.A. Minerals Exploration
7200 South Alton Way
P.O. Box 3986
Englewood, Colorado 80155
303-740-5638

Mr. W. E. Heinrichs, Jr.
Heinrichs Geoexploration Company
P. O. Box 5964
808 West Grant Road
Tucson, Arizona 85703



Dear Walt:

Please find enclosed two copies each of geologic maps for the Arizona State Prospecting Section and the 25 SE claims situated in Section 31. As you are aware, we had intended to do considerably more exploration on your properties, but we suffered a significant budget cut that precluded any work on this project in 1984. We have also terminated our agreement with Dan Patch on the adjacent Goodman claims, and we never did enter into an agreement with Westworld.

The geologic mapping and the geochemical sampling represent the total amount (\$3,800) of allowable assessment-type work accomplished on your properties since the end of the 1982-1983 assessment year. You will remember that we completed the required 1982-1983 assessment work for the entire claim group through drilling during the summer of 1983.

Should you wish to make use of the geologic data gathered by Amoco for assessment purposes, I have prepared the information in a form so that it may be filed with the appropriate agencies. We will be pleased to provide additional copies of these materials if they are desired.

I am sorry that our work completed during the 1983-1984 assessment year was not sufficient to cover all of the expenditures required to maintain valid status of both the State Land and the mining claims. Perhaps the mapping and brief report will help defray at least some of the expenses of annual assessment work. We will be sending you some additional exploration data in the near future.

I am also sorry that we were not able to carry our planned evaluation of your properties on through to a more meaningful conclusion. Thank you for entering easily into an agreement with Amoco, and please convey my best to your partners.

Sincerely,

A. G. Humphrey
Manager, Minerals Exploration - U.S.A.

AGH/ams

enclosures



HEINRICH'S GEOEXPLORATION COMPANY

P.O. BOX 5964, TUCSON, ARIZONA 85703. 806 WEST GRANT ROAD. PHONE: (602) 623-0576

February 9, 1982

SE Property Geological Synopsis

The SE property is in the Middle Camp - Oro Fino Mining District in Yuma County, Arizona. Past production from the district includes over 12,000 ounces of gold with 1500 ounces of contained silver from placer operations and minor production of lead, zinc, copper, gold and silver from several small lode mines.

The dominant rocks exposed within the district in the Dome Rock Mountains are Precambrian schist and granite. In the SE property area, these rocks have been intruded by a stock of probable Laramide age. Extrusion of a Tertiary quartz porphyry flow followed; outcrops of this rock are found capping Sugarloaf Peak and scattered north of I-10. Late Tertiary gravels and Quaternary alluvium lap up onto the mountains.

Porphyry copper-type alteration is well developed within the property; alteration types include propylitic, pyritic, phyllic, and potassic. The original geometric relations between the various alteration zones have been obscured by structural dislocations along faults.

Surface geochemical sampling has disclosed anomalous ^{gold,} lead, zinc, molybdenum, bismuth, and tin values. [^]

Primary copper mineralization (disseminated chalcopyrite now partially oxidized to various copper oxide minerals) is found on the surface in the Hancock Wash area (Hancock Wash is the large wash in the south half of section 31 T4N R20W). This mineralization is associated with a block of exposed potassic alteration.

A minimum of 18,500 feet of recorded rotary and core drilling has been carried out in the Sugarloaf Peak area by various companies; data from some of this drilling is available in addition to other reports and maps and is included in the larger body of text which is available on request. The reader's attention is drawn to DDH Q-1 through Q-6. These holes were drilled in the Hancock Wash area intercepting schist and quartz monzonite (a phase of the

Laramide (?) intrusive). DDH Q-1, which was drilled mostly in schist, had intercepts of 200 feet of about 0.6% copper from the surface to a depth of about 200 feet; the copper is in the form of brochantite, chrysocolla, and malachite, partly disseminated and partly on fractures, and also disseminated and veinlet chalcopyrite. There is a further 30 feet of approximately 0.6% copper (disseminated chalcopyrite - bornite) at 400 - 430 feet. The mineralization in Q-1 is associated with sericite and biotite alteration.

DDH Q-3 intercepted 203 feet of 0.43% copper mineralization, mostly in quartz monzonite, from about 190 feet to about 400 feet of depth. The mineralization is in the form of chalcopyrite associated with phyllic alteration (quartz-sericite-pyrite).

Significant amounts of molybdenum are associated with copper mineralization intercepted in DDH Q-1 and Q-3, and probably elsewhere as well.

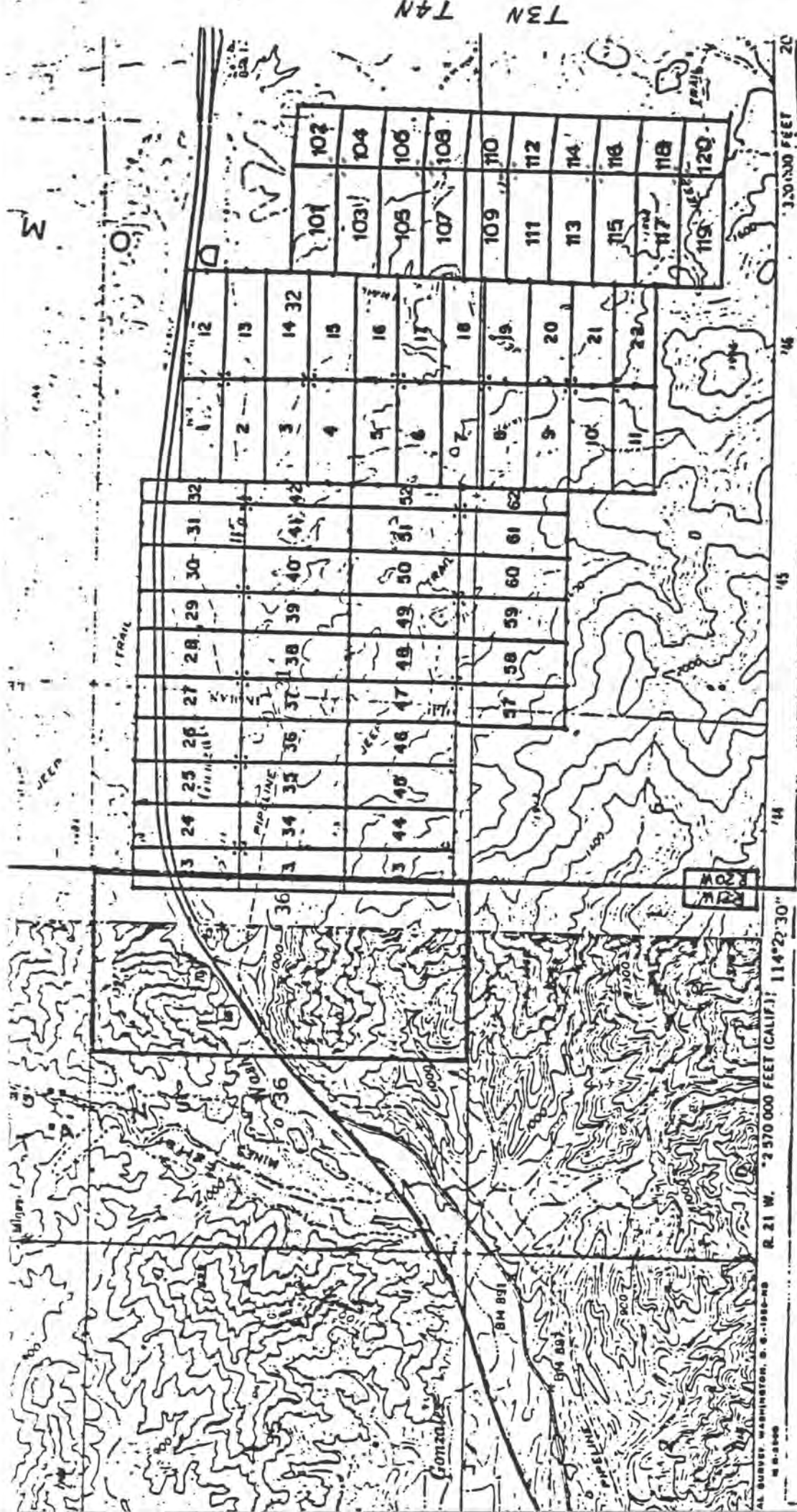
In DH Q-6 was found 50 feet of 0.2% copper in a faulted block of quartz monzonite. The mineralization is chalcopyrite associated with quartz-sericite-pyrite alteration and some tourmaline.

Tourmaline was noted in all of the Q holes, but most strongly in holes Q-2, Q-4, and Q-6, both disseminated and in veinlets.

Many of the earmarks of economic porphyry copper deposits found elsewhere in the Southwest are present in the Sugarloaf Peak area. These include the Pb-Zn-Mo geochemical anomalies, the well developed and widespread alteration zoning, presence of abundant alunite and tourmaline, and outcrops of disseminated copper mineralization in a potassic alteration zone. All these favorable geological characteristics indicate that more work is warranted to test for the presence of economic quantities of disseminated copper - molybdenum mineralization in the Sugarloaf Peak area.

Recent geochemical sampling and mapping (Jan.-Feb. 1982) have revealed the presence of anomalous gold values in host rocks favorable for lode gold mineralization. These results suggest the possibility of a stockwork gold deposit and/or Goldfield, Nevada - type mineralization which could have acted as a source for the placer gold mined in the early days of the district. More work is needed to define the areas of gold anomalism, favorable host rocks and to determine if potential economic targets for gold mineralization exist.

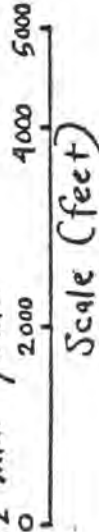
William C. Hirt
Geological Engineer
and Metallurgist



SE PROPERTY La Paz County, Arizona

The property is comprised of 78 lode mining claims

Base map from USGS La Paz Mtn. and Middle
Camp Mtn. 7 1/2 min. quads.



78 SE Claims

Lease-option Terms and Conditions

Purchase price: \$10,000,000 or \$5,000,000 plus perpetual NSR or equivalent royalty commencing on initial date of production in the amount of 4% on Federal lands. All payments, including production royalties, apply towards the purchase price. Payments, toward the purchase price must be structured as capital gains, not advance royalties or rentals. If either of the above alternative purchase prices are acceptable to the optionees, the owners require no term to the agreement; if not acceptable and the optionees offer a reduced price, the owners insist on a 5 year term to the agreement.

Payment Schedule

(Minimum advance royalties)

<u>Year</u>	<u>Amount</u>
1	\$6,000 in advance for the first 6 months. \$7,500 in advance for the second 6 months.
2	\$18,000 in advance.
3	\$21,000 in advance.
4 and beyond	\$24,000 in advance.

Annual labor must be performed by optionee if the claims are held beyond Feb. 1 of any year. Labor must be physical labor (dozing, drilling, mining, etc.) on the federal claims, and must be at least \$7,800 per year.

Sixty days notice is required before dropping the lease or option.

Area of interest: There will be an area of interest extending one mile from the exterior boundary of the claim/prospecting permit block. Any claims staked by either party or prospecting permits acquired shall be subject to the terms of the agreement.

Data: All factual data acquired and developed by the optionees shall be released to the owners when and if the lease is dropped. Information or reports shall be made available to the owners periodically during the term of the lease. The owners will hold these data confidential.



March 1984

Paul Gilmore

HEINRICHS GEOEXPLORATION COMPANY

P.O. BOX 5964. TUCSON, ARIZONA 85703. 806 WEST GRANT ROAD. PHONE: (602) 623-0578

SE Property Summary Sheet

The SE property is in the Middle Camp-Oro Fino Mining District in the Dome Rock Mountains in La Paz County, Arizona. The property is on Interstate 10, about eight miles west of Quartzsite, Arizona and about thirteen miles east of Blythe, California. The property consists of 78 lode claims, located in sections 31, 32 and 33, T. 4 N., R. 20 W., sections 5 and 6, T. 4 N., R. 20 W., and section 36 T. 4 N., R. 21 W., totalling about 1,330 acres.

This area is shown on the Middle Camp Mountain USGS 7 1/2 minute topographic map. The claims bear US BLM Serial Numbers AMC105414 through AMC 105471 and AMC 186704 through 186723. They were staked in 1980 and 1982.

Ownership rests with four Arizona residents, each with a one quarter undivided interest. They are Walter E. Heinrichs, Jr., William C. Hirt, James D. Loghry of Tucson and Richard J. Lundin of Prescott, AZ.

The initial interest in the immediate claim area during recent times was for its porphyry copper-molybdenum potential. In this connection, during the period 1962 - 1975, mapping, sampling and rotary and diamond exploration drilling totalling approximately 18,500 feet was done by several concerns, one of them a major oil and mining company. More recently, the SE group has been re-evaluated in light of geochemical and geological data as a gold target, and the minerals division of a major oil company leased the property in 1983. This company drilled one hole required for annual labor purposes but, unfortunately, due to a sudden unexpected corporate-wide budget cut, they had to turn it back to the owners in January 1984. Results of some of the work done to date on the property are available to interested parties. We feel that the mineralization disclosed thus far warrants further investigation.

Further information may be obtained at the above address.

March 1984

SE Property Data and Reports

(in approximate chronological order)

1. McPhar Geophysics IP and Resistivity Survey Location Map (Fig.3), undated but probably between 1962 and 1971.
2. Congden and Carey report on "Geology of the Sugarloaf Prospect, Yuma County, Arizona" with Plates II, III and IV, March 1964.
3. Report titled "Base Metal Distribution at Sugarloaf Peak, Quartzite Mining District, Yuma County, Arizona" dated August 1971, text 4 pp., with drill hole data including core logs, drill chip logs and metal ratio graphs for drill holes DDH S-1, DDH S-2, DDH S-3, DDH SL-4, DDH-SL-5, DDH SL-6, RH SL-7, RH S-8, RH S-10, RH SL-13 and DDH SL-15 (these are partly rotary and partly core holes), accompanied by map titled "Generalized Alteration - Sugarloaf Peak Area", dated August 1971 (two copies, one with outline of claim block), and also by another map (undated) entitled "Dome Rock Mtns Quad" which shows the location of the S and SL holes.
4. Assay logs for RH V-1 through RH V-15 (all rotary drill holes except for three feet of NX core on hole RH V-15), drilled in 1972.
5. Report titled "Exploration Potential of the Sugarloaf Peak Area, Quartzsite Mining District, Yuma County, Arizona" dated May 25, 1973, 12 pp., with 3 pp. cover letter, accompanied by maps:
 - a. "Alteration Map-Sugarloaf Peak Prospect", May 25, 1973.
 - b. Molybdenum Geochemical Values, Lead Geochemical Values, and Mo/Pb Ratio Maps, all of the Sugarloaf Peak Prospect, dated May 1973.
 - c. Cross Section through Sugarloaf Peak, dated May 1973.
 - d. Magnetometer Survey Profiles, dated May 1973.
6. Assay and Core Logs for DDH Q-1 through Q-6 (NX core holes drilled in 1974-75).
7. Map titled "Quartzsite Geology and Alteration" dated February 1975 showing location of Q holes.
8. Map titled "Quartzsite Project, Yuma County, Arizona" dated May 30, 1975 showing location of Q holes.
9. Undated Map showing drill hole locations and claim block outline.
10. Geologic Map of the Central Dome Rock Mountains by W. J. Crowl, 1975 (University of Arizona thesis).
11. SE Property Map 1982.



HEINRICHS GEOEXPLORATION COMPANY

P. O. BOX 5964, TUCSON, ARIZONA 85703. 806 WEST GRANT ROAD, PHONE: (602) 623-0578

March 14, 1984

W. C. Hirt
J. D. Loghry
R. L. Lundin

Re: Sale terms
S. E. Claims & Map.

Dear Partners:

Never did receive Rich's proposed revised terms in writing nor a reproducible sepia or vellum copy of 1" = 500' scale topo base with claims and geochem sample sites shown as open hexigons. Regarding the latter, I do not immediately recall ever seeing the presumed geochem results obtained from this sampling. What's the story on that?

Regarding sale terms, Bill and I reviewed matters in the light of Rich's recent suggestions and I come up with the following revision: I believe Bill and Jim more or less agree with the table part. If Rich has a particular candidate he thinks this is too easy on he can make appropriate revisions but, ideally, a written record should be kept and the other three partners so advised in writing so we don't get crosswise with each other:

Year	Amount				
1	\$6000	in advance for	first 6 months		
	\$7500	"	"	"	second 6 months.
2	\$18,000	"	"	"	" year.
3	\$24,000	"	"	"	third "
4	\$31,500	"	"	"	fourth "
5	\$40,500	"	"	"	fifth "
6 & beyond	\$50,000	"	"	"	sixth " and thereafter.

Purchase price: \$10,000,000 buy out at any time. Royalty, NSR or equivalent, at 4% from Federal land and 2% from State land reduced to 3% and 1% respectively after \$5,000,000 paid out. Term, 10 years - if not in production. If in production term automatically extended so long as production continues. If production after having commenced, ceases for over one year, optionees must renegotiate minimum royalty or give up lease. If above principal figures are reduced in any way, then term will reduce from ten years to five years.

Please edit and/or comment by return mail.

Partners

-2-

March 14, 1984

Enclosed AMOCO correspondence copies are for your records. Incidentally, this includes a copy of recently revised terms prior to Rich's recent suggestions which I have been using since before Gulf and will continue to use until we jointly decide otherwise. It's main inconsistency is relative to the \$5,000,000 and perpetual royalty which is contradictory and/or meaningless as stated.

Cheers,



Walter E. Heinrichs, Jr.

WEH/jh

Enclosures: 3

2/28/84

Rich Called Re: S.E. Claims

~~\$320~~ \$640⁰⁰

Pete Domes Jones Calif.

Hold State Lease.

Condor Min ^{term} Maint. North Air
1/2 Meridian

Tom Ballard

Meridian Billings
B.S.N.

10 year term

1 yr. initial period

1500/mo 1st yr = 18,000

2000/mo 2nd yr = 24,000

2500 " 3rd yr = 30,000

3000 " 4th yr = 36,000

3500 " 5th yr = 42,000

4000 " 6th yr = 48,000

Dave Spatz

Rio Algon. D. M. B.

Pat. Cavanaugh.

Copper Queen.

400 people mail list.

50% NSR. Perpetual if \$5MM
Price

400' a - Werner. \$ 1000⁰⁰/day.

4% NSR if \$10MM ^{buyout} Price

THOMAS INTERNATIONAL



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NEW ELECTRONIC PRODUCTS - JAPAN

SPECIAL CHARTER OFFER



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Japan's recent decision to open its markets to more foreign goods makes this a particularly opportune time to explore or expand your sales in the immensely profitable Japanese electronic-computer market. And if you act quickly, you can take advantage of NEP - JAPAN's special charter offer. Run an advertisement in the May issue at our low charter rates, and we will give you the same amount of space and color - FREE OF CHARGE - in June and July.

Please complete and return the coupon below and we will be happy to send a full media package and specimen pilot issue for your evaluation. I would also encourage you to send us a new product press release for the consideration of our editors in Japan. The deadline for editorial new product releases in the May issue of NEP is March 1st, 1982, for advertising March 17th.

Yours sincerely,

Joaquim N. Vieira
Vice President

TO: J.N. Vieira, Thomas International Publishing Company, Inc.,
1 Penn Plaza, New York, New York 10119

☐ Please reserve _____ space for us in your May issue.

☐ Please have a representative call me.

☐ Please send full details on NEW ELECTRONIC PRODUCTS-JAPAN.

NAME _____ TITLE _____

COMPANY _____ ADDRESS _____

CITY _____ STATE _____ ZIP _____ PHONE _____

300.⁰⁰ 5%

Russell
Corn

300.⁰⁰ 5%

Richard
Ahern.

$$\begin{array}{r} 6,000 \\ 600 - \\ \hline 4 \overline{) 5400} \\ 1350 \end{array}$$

Jim Loggery called:

2/17/88

Dean Douglas

Hardy Schmidt quit

Graham Kelsey

Tom O'Neil

Moon Mts. Quad.
W/cents.

Copper Stone project

2 holes N/W

on a Au vein.

La Paz area

5. October, 1968 to September, 1976: TETON EXPLORATION DRILLING COMPANY in Casper, Wyoming (1968-1975) and Albuquerque, New Mexico (1975-1976). Project Geologist duties included the exploration and development of uranium, coal and base metal properties; and mining geology.
6. April 1967 to October, 1968: DENISON MINES, LTD. at their uranium operations near Eliot Lake, Ontario, Canada. Mine Geologist duties included ore extraction control, production and ore reserve calculations, mine mapping, drafting, core logging and interpretation.
7. June, 1966 to April, 1967: KERR-MCGEE CORPORATION at their uranium operations near Grants, New Mexico. Grade Control Engineer duties included production and reserve calculations, mine mapping and ore extraction control.
8. September, 1965 to January, 1966: BEAR CREEK MINING COMPANY at their base metals exploration office in Reno, Nevada. Junior Geologist duties included claim staking and reconnaissance for copper and molybdenum.

Publications

"Uranium Roll-Front Zonation in the Southern Powder River Basin, Wyoming", WGA Earth Science Bulletin, Dec. 1970.

Associate Editor, RMAG Guidebook, 1981

Associate Editor, RMAG Guidebook, 1982

Date: October 11, 1982

WALLABY ENTERPRISES

Mining District Data Base Program

1. Mine or Property Name: SE Grp.
(Stray Elephant)
2. Mining District, County & State:
Middle Camp-Oro Fino Dist., Yuma Co. AZ
- 3a. Quadrangles or Map Names:
LaPaz Mtn. 7½ (1955)
Middle Camp Mtn. 7½ (1980)
- 3b. Location:

T	3N	R	20W	S	5,6,4
	4N		20W		31,32,33
	4N		21W		36
- 3c. Lat. _____ Long. _____
4. Any Former Names: Scott-Weaver Grp., Zales Grp., Hancock Wash Cu Prospect, Weaver Mine, Apodaca Mine, McIntyre Mine, Begg Mine
5. Owner: Heinrichs GEOEXploration Inc., J.D. Lohry, W.C. Hirt, Wombat Mng. Co.
6. Address (Owner): P.O. Box 5964
Tucson, AZ 85703
7. Operator: same as above
8. Address (Operator):
same as above
9. Principal Metals: Cu,Au,Ag,Mo,U
10. Mining & Milling Operations: Kinds & Capacities

Present: currently inactive

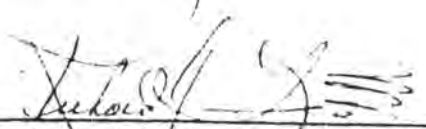
Past: Mining and quarrying activity in the 1950's with shipments of Cu-Ag-Au ore that averaged approximately 1.10% Cu, .13 ozs. Ag and .002 ozs. Au per ton (approx. 100 tons of oxide ore shipped)
11. Number of Claims, Title, etc. (Please include a sketch map or plat showing location, T. R. & Sec., and the general outline of each group)
78 unpatented lode mining claims held by location and performance of annual work;
320 acres of state land under prospecting permit #83801
12. Previous Published or Unpublished Reports: Kincannon, 1926 (private report); Lee, W.T., 1908; Bancroft, H., 1911; Darton, N.H., 1925; Lausen, C., 1927; Housholder, E.R., 1956; (private report), Ahern, R., 1972; (private report) Crowl, W., 1978; ADMR file data
13. Names of Mining Companies or Governmental Agencies that have worked, or are now working on this property. Royal Investment Corp, Kerr-McGee Corp., McIntyre-Porcupine, Congdon & Carey, ADMR, Newmont Exploration Ltd., Gulf Minerals
14. Ore & Gangue Minerals: malachite, azurite, chrysocolla, tenorite, auriferous pyrite, galena, sphalerite, tetrahedrite, molybdenite, native gold and uraninite

15. Geology: Mapping has defined the following rock sequence:
(please include any Geologic Maps, Sketches or Cross Sections)
Paleozoic sediments, Triassic-Cretaceous intrusive and extrusive igneous rocks of basaltic, dacitic and felsic composition (rhyolites or felsic quartz crystal tuffs) Cata-clastically deformed Cretaceous-Tertiary volcanics, volcaniclastics and sediments (conglomerate and arkose sequences) Miocene? dacitic flows and intrusives. Quaternary bench gravels and alluvium.
16. Type of Mineralization-Metallurgical Considerations:
(please check appropriate box or boxes)
- | | | | |
|---|-------------------------------------|--------------|---------------------|
| 1. Syngenetic Au-Ag mineralization assoc. with siliceous, pyritic volcanic and volcaniclastic units. Associated with areas of argillic-sericitic alteration and alunite mineralization. | <input checked="" type="checkbox"/> | Vein or Lode | py,ccpy,ga,sphal,Au |
| | <input type="checkbox"/> | Stratiform | |
| | <input checked="" type="checkbox"/> | Disseminated | py,ccpy,mo |
| 2. Disseminated and veinlet controlled Cu-Ag-Mo-U mineralization assoc. with potassically altered volcanics, metasediments and a qmp intrusive | <input checked="" type="checkbox"/> | Placer | Au |
| | <input checked="" type="checkbox"/> | Oxide | mal,az,ten,chrys |
| | <input checked="" type="checkbox"/> | Sulfide | py,ccpy,ga,sphal,mo |
| 3. Vein Au-Ag-Cu-Pb-Zn mineralization assoc. with qtz-magnetite veins. | <input checked="" type="checkbox"/> | Other | uraninite |
| 4. Placer Au deposits | | | |
17. Ore Reserves: Dumps _____ tons @ _____ grade
untested Au placer reserves
Tailings _____ tons @ _____ grade
3.6 X 10⁶ tons of oxide ore @ 1.57% Cu, (Housholder, 1956)
15.0 X 10⁶ tons of oxide and sulphide ore that would average 1.0% Cu, (Ahern, 1973)
18. Mine, Mill Equipment & Flow Sheet:
None
19. Road Conditions, Route: (see map) The property is adjacent to Interstate Highway 10 and is fully accessible by old roads and jeep trails
20. Water & Power Supply: Limited water is probably available from Gonzales well or Quartzite. The Colorado River remains as a potential source of water for any mining or milling operation. Power available from Blythe or Quartzite, 500 KVA line runs two miles south of property. Natural gas pipeline runs through the property.
21. Extent of Development: (Please include any maps, plans, sketches, longitudinal or cross sections of underground or surface workings)
Numerous shallow pits, adits, shafts.

22. Brief History: Property originally located in 1906 by Miguel Apodaca, worked in the 1920's as the Weaver or Weaver-Scott Mine, developed in the 1950's by Royal Investment Corp. who shipped several carloads of oxide Cu-Ag ore. Operated in the 1960's by Hancock Oil Co., leased by Kerr-McGee in the 1970's who drilled four core holes (Q1-Q4) then abandoned the property. Located by the present ownership in 1980.
23. Previous Sampling, Drilling & Other Studies on Dumps or Tailings: Considerable surface sampling by Kerr-McGee, Gulf, Newmont, Royal Investment Corp., Congdon & Carey. Core drilling by Kerr-McGee and Royal Investment Corp.
24. Environmental-Social-Political Conditions & Considerations: Property located in a traditional area of past mining activity that has a large local small mine owner/operator group that supports mining and mineral exploration activity. The area is not within or adjacent to any proposed withdrawal or restricted use area.
25. Sampling: (see figure 1) numerous surface samples taken by Gulf and Newmont during the 1981-1982 period.
Sample Nos:
Sample Types or Types: rock chip and channel samples
26. Assaying:
27. Financial Terms, Conditions & Considerations: Property is open to lease with option to purchase from owners.
28. Remarks: Property has the potential for bulk tonnage Au-Ag deposits associated with pyritic, volcanic sequences; disseminated and stockwork Cu-Ag-Mo-U bulk tonnage deposits associated with extremely altered volcanic, volcanoclastic and intrusive units and placer gold deposits. Geological and geochemical surveys during 1981 and 1982 delineated areas with anomalous gold and copper mineralization and favorable rock types for the deposits described above. The property is only partially explored but has existing, developed reserves of Cu-Ag mineralization that can be currently mined by open pit methods. The potential of the property is largely untested.

29. Date: October 11, 1982

Signature


Richard J. Lundin

Mr. Lundin is a Mineral Exploration Consultant with 10 years of experience in the evaluation of base and precious metal deposits in the U.S. and abroad. He holds a BA degree in Anthropology and Geology from Beloit College, Wisconsin and is the President of Wallaby Enterprises Inc.

Date: October 11, 1982

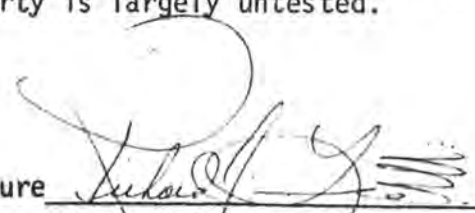
WALLABY ENTERPRISES

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(Stray Elephant)
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LaPaz Mtn. 7½ (1955)
Middle Camp Mtn. 7½ (1980)
- 3b. Location: T 3N R 20W S 5,6,4
4N 20W 31,32,33
4N 21W 36
- 3c. Lat. _____ Long. _____
4. Any Former Names: Scott-Weaver Grp., Zales Grp., Hancock Wash Cu Prospect, Weaver Mine, Apodaca Mine, McIntyre Mine, Begg Mine
5. Owner: Heinrichs GEOEXploration Inc., J.D. Loghry, W.C. Hirt, Wombat Mng. Co.
6. Address (Owner): P.O. Box 5964
Tucson, AZ 85703
7. Operator: same as above
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Past: Mining and quarrying activity in the 1950's with shipments of Cu-Ag-Au ore that averaged approximately 1.10% Cu, .13 ozs. Ag and .002 ozs. Au per ton (approx. 100 tons of oxide ore shipped)
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78 unpatented lode mining claims held by location and performance of annual work;
320 acres of state land under prospecting permit #83801
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Richard J. Lundin

Mr. Lundin is a Mineral Exploration Consultant with 10 years of experience in the evaluation of base and precious metal deposits in the U.S. and abroad. He holds a BA degree in Anthropology and Geology from Beloit College, Wisconsin and is the President of Wallaby Enterprises Inc.

SE Claims, State P.P., Yuma County, Arizona

Meeting with Norm Lehman
Gulf Mineral Resources Company
Jim Loghry and Walt Heinrichs

June 8, 1982

Purchase Price: \$10,000,000 or \$5,000,000 plus perpetual NSR or equivalent royalty 4% Federal, 2% State. All payments, including production royalties are applicable to Purchase Price. If above Purchase Price, either alternative, is acceptable to optionees, owners require no term to Agreement; if not acceptable and optionees offer a reduced price, owners insist on a 5 year term to the agreement. Payments toward purchase price; structured as capital gains, not advance royalties or rentals:

- 1) \$1,000 per month, first 6 months (\$6,000 minimum)
1,250 per month, second 6 months (\$7,500 minimum)
- 2) 1,500 per month, (\$18,000 minimum)
- 3) 1,750 per month (\$21,000 minimum)
- 4) 2,000 per month (\$24,000 minimum)
- 5) and beyond \$2,000 per month (\$24,000 minimum)

(Although it was not discussed, we should offer to accept payments on six months or yearly lump sum basis - not necessarily monthly)

30 day notice required prior to dropping claims

Annual labor must be performed if claims are held beyond February 1 of any one year; must be physical labor, i.e. drilling. 1981-82 labor may be non-physical, i.e. geologic mapping, geochem sampling - \$5,800 worth on SE claims. State Prospect Permit 320 acres - \$3,200

Assessment must be completed, filed pre March 16, 1983.

1984 - 87 rental is \$320 per year. \$3,200 assessment work must be done before March 16, 1984 and \$6,400 done in each of 3 succeeding years through March 16, 1987.

One mile perimeter protection. All factual data released to owners when option is dropped.
Periodic information to be made available by Gulf.

obsolete
Nash's Copies



HEINRICHS GEOEXPLORATION COMPANY

P. O. BOX 5964, TUCSON, ARIZONA 85703, 806 WEST GRANT ROAD, PHONE: (602) 623-0578

October 20, 1982

SE Claims and State Prospecting Permit No. 83801

Lease-option Terms and Conditions

Purchase price: \$10,000,000 or \$5,000,000 plus perpetual NSR or equivalent royalty in the amount of 4% on Federal lands and 2% on state lands. All payments, including production royalties, apply towards the purchase price. Payments toward the purchase price must be structured as capital gains, not advance royalties or rentals. If either of the above alternative purchase prices are acceptable to the optionees, the owners require no term to the agreement; if not acceptable and the optionees offer a reduced price, the owners insist on a 5 year term to the agreement.

Payment Schedule

<u>Year</u>	<u>Amount</u>
1	\$6,000 in advance for the first 6 months. \$7,500 in advance for the second 6 months.
2	\$18,000 in advance
3	\$21,000 in advance
4 and beyond	\$24,000 in advance

Annual labor must be performed by optionee if the claims are held beyond Feb. 1 of any year.

Labor must be physical labor (dozing, drilling, mining, etc.) on the federal claims, and must be at least \$7800 per year except for the 1982-1983 assessment year when the amount shall be at least \$5800.

For the state prospecting permit, annual assessment labor is \$3200 per year for the period ending March 16, 1984 and \$6400 per year for the period ending March 16, 1987. The annual rental for the period March 16, 1984 - March 16, 1987 is \$320. If option is held beyond 15 September in any given year, these obligations must be assumed by optionees.

Sixty days notice is required before dropping the lease or option.

Area of interest: There will be an area of interest extending one mile from the exterior boundary of the claim/prospecting permit block. Any claims staked by either party or prospecting permits acquired shall be subject to the terms of the agreement.

Data: All factual data acquired and developed by the optionees shall be released to the owners when and if the lease is dropped. Information or reports shall be made available to the owners periodically during the term of the lease. The owners will hold these data confidential.



HEINRICHS GEOEXPLORATION COMPANY

P.O. BOX 5964, TUCSON, ARIZONA 85703, 806 WEST GRANT ROAD, PHONE: (602) 623-0578

February 9, 1982

SE Property Geological Synopsis

The SE property is in the Middle Camp - Oro Fino Mining District in Yuma County, Arizona. Past production from the district includes over 12,000 ounces of gold with 1500 ounces of contained silver from placer operations and minor production of lead, zinc, copper, gold and silver from several small lode mines.

The dominant rocks exposed within the district in the Dome Rock Mountains are Precambrian schist and granite. In the SE property area, these rocks have been intruded by a stock of probable Laramide age. Extrusion of a Tertiary quartz porphyry flow followed; outcrops of this rock are found capping Sugarloaf Peak and scattered north of I-10. Late Tertiary gravels and Quaternary alluvium lap up onto the mountains.

Porphyry copper-type alteration is well developed within the property; alteration types include propylitic, pyritic, phyllic, and potassic. The original geometric relations between the various alteration zones have been obscured by structural dislocations along faults.

Surface geochemical sampling has disclosed anomalous lead, zinc, molybdenum, bismuth, and tin values.

Primary copper mineralization (disseminated chalcopyrite now partially oxidized to various copper oxide minerals) is found on the surface in the Hancock Wash area (Hancock Wash is the large wash in the south half of section 31 T4N R20W). This mineralization is associated with a block of exposed potassic alteration.

A minimum of 18,500 feet of recorded rotary and core drilling has been carried out in the Sugarloaf Peak area by various companies; data from some of this drilling is available in addition to other reports and maps and is included in the larger body of text which is available on request. The reader's attention is drawn to DDH Q-1 through Q-6. These holes were drilled in the Hancock Wash area intercepting schist and quartz monzonite (a phase of the



HEINRICHS GEOEXPLORATION COMPANY

P. O. BOX 5964, TUCSON, ARIZONA 85703. 806 WEST GRANT ROAD. PHONE: (602) 623-0578

January 1982

SE Property Summary Sheet

The SE property is in the Middle Camp-Oro Fino mining district in the Dome Rock Mountains in Yuma County, Arizona. The property is on Interstate 10, about eight miles west of Quartzsite, Arizona and about thirteen miles east of Blythe, California. The property consists of 58 lode claims, located in sections 31 and 32 T4N R20W, sections 5 and 6 T3N R20W, and section 36 T4N R21W, totalling about 1120 acres and a state prospecting permit on the east half of section 36 T4N R21W. This area is shown on the Middle Camp Mountain and La Paz Mountain USGS 7 1/2 minute topographic maps. The claims bear US BLM Serial Numbers AMC 105414 through AMC 105471. They were staked in 1980.

Ownership rests with four Arizona residents, each with a one quarter undivided interest. They are Walter E. Heinrichs, Jr., William C. Hirt, James D. Loghry, and Richard J. Lundin, all of Tucson, Arizona.

Exploration targets include porphyry copper-molybdenum and/or gold deposits. During the period 1962-1975, mapping, sampling and rotary diamond exploration drilling totalling approximately 18,500 feet was done by several concerns, one of them a major oil and mining company. Results of some of this work are available to interested parties. We feel that the mineralization disclosed thus far warrants further investigation.

Further information may be obtained by contacting any of the four owners at the above address.

January 1982

SE Property Data and Reports
(in approximate chronological order)

1. McPhar Geophysics IP and Resistivity Survey Location Map (Fig.3), undated but probably between 1962 and 1971.
2. Report titled "Base Metal Distribution at Sugarloaf Peak, Quartzsite Mining District, Yuma County, Arizona" dated August 1971, text 4 pp., with drill hole data including core logs, drill chip logs, and metal ratio graphs for drill holes DDH S-1, DDH S-2, DDH S-3, DDH SL-4, DDH SL-5, DDH SL-6, RH SL-7, RH S-8, RH S-10, RH SL-13, and DDH SL-15 (these are partly rotary and partly core holes), accompanied by map titled "Generalized Alteration - Sugarloaf Peak Area", dated August 1971 (two copies, one with outline of claim block), and also by another map (undated) entitled "Dome Rock Mtns Quad" which shows the location of the S and SL holes.
3. Assay logs for RH V-1 through RH V-15 (all rotary drill holes except for three feet of NX core on hole RH V-15), drilled in 1972.
4. Report titled "Exploration Potential of the Sugarloaf Peak Area, Quartzsite Mining District, Yuma County, Arizona" dated May 25, 1973, 12 pp., with 3 pp. cover letter, accompanied by maps:
 - a. "Alteration Map - Sugarloaf Peak Prospect", May 25, 1973.
 - b. Molybdenum Geochemical Values, Lead Geochemical Values, and Mo/Pb Ratio Maps, all of the Sugarloaf Peak Prospect, dated May 1973.
 - c. Cross Section through Sugarloaf Peak, dated May 1973.
 - d. Magnetometer Survey Profiles, dated May 1973.
5. Assay and Core Logs for DDH Q-1 through Q-6 (NX core holes drilled in 1974-1975).
6. Map titled "Quartzsite Geology and Alteration" dated February 1975 showing location of Q holes.
7. Map titled "Quartzsite Project, Yuma County, Arizona", dated May 30, 1975 showing location of Q holes.
8. Undated Map showing drill hole locations and claim block outline.
9. Geologic Map of the Central Dome Rock Mountains by W. J. Crowl, 1975 (University of Arizona thesis).
10. SE Property Map 1982



April 1981

HEINRICHS GEOEXPLORATION COMPANY

P. O. BOX 5964. TUCSON, ARIZONA 85703. 806 WEST GRANT ROAD. PHONE: (602) 623-0578

SE CLAIMS MAPS, REPORTS, AND DATA

1. SE Claim Group Map, 1980
2. Claim map (8 1/2" x 14") with location of Q series DDH, dated May 30, 1975
3. Quartzsite Geology and Alteration Map, dated February 1975
4. Report titled "Exploration Potential of the Sugarloaf Peak Area, Quartzsite Mining District, Yuma County, Arizona " dated May 25, 1973, 12 pp., with cover letter, 3 pp.
5. Alteration Map - Sugarloaf Peak Prospect dated May 25, 1973
6. Report titled "Base Metal Distribution at Sugarloaf Peak, Quartzsite Mining District, Yuma County, Arizona", dated August 1971, text 4 pp., with drill hole data including an assortment of core logs, drill chip logs, metal ratio graphs, and drill hole summaries for drill holes DDH S-1, DDH S-2, DDH S-3, DDH SL-4, DDH SL-5, DDH SL-6, RH SL-7, RH S-8, RH S-10, RH SL-13, DDH SL-15 (these are partly rotary and partly core holes), rotary holes V-1 through V-15, and DDH Q-1 through Q-6, totalling 182 pp.
7. Map showing drill hole locations and outline of a former claim block (8 1/2" x 14"), undated.
8. Topographic base map entitled "Dome Rock Mountains Quad" (8 1/2" x 11"), undated (shows location of S and SL holes)

Rolled Maps

1. Geologic Map of the Central Dome Rock Mountains by W. J. Crowl, 1975.
2. Mo/Pb Ratio, Mo Geochemical Values, Pb Geochemical Values Maps, all of the Sugarloaf Peak Prospect, dated May 1973 (two copies of each map, one large and one small)
3. Cross section through Sugarloaf Peak, dated May 1973
4. Alteration Map - Sugarloaf Peak Prospect, dated May 1973

SE CLAIM MAPS, REPORTS, AND DATA

Rolled Maps (cont.)

5. Magnetometer Survey Profiles, dated May 1973
6. Generalized Alteration - Sugarloaf Peak Area, dated August 1971 (two copies, one with former claims outlined on it)
7. McPhar Geophysics IP and Resistivity Survey Location Map, (Fig. 3), undated

Note: Data from the Hancock holes is extant, but not on hand as of this date. We expect to receive this data sometime in the fairly near future, but it will probably not add substantially to the amount of information now available.

Points to be highlighted in ~~a~~ new summary - JPL 2/24/84

1. Hg anomalies - over alluvium <100' deep (?) over oxidized Au
min/zn. susceptible to leaching
amenable

3. Au anomalies

4. altu. mapping of K-M, coupling this w. py &
gc anomalies

March 1984
~~January 1982~~

SE Property Data and Reports
(in approximate chronological order)

1. McPhar Geophysics IP and Resistivity Survey Location Map (Fig.3), undated but probably between 1962 and 1971.
2. > Congden & Casey report on "Geology of the Sugarloaf Prospect, Yuma County, Arizona", with Plates II, III, and IV, Mar. 1964
3. Report titled "Base Metal Distribution at Sugarloaf Peak, Quartzsite Mining District, Yuma County, Arizona" dated August 1971, text 4 pp., with drill hole data including core logs, drill chip logs, and metal ratio graphs for drill holes DDH S-1, DDH S-2, DDH S-3, DDH SL-4, DDH SL-5, DDH SL-6, RH SL-7, RH S-8, RH S-10, RH SL-13, and DDH SL-15 (these are partly rotary and partly core holes), accompanied by map titled "Generalized Alteration - Sugarloaf Peak Area", dated August 1971 (two copies, one with outline of claim block), and also by another map (undated) entitled "Dome Rock Mtns Quad" which shows the location of the S and SL holes.
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11. SE Property Map 1982

SE group

More recently, the ~~area~~ has been re-evaluated in light of geochemical data ~~regain~~ and geological data as a gold target, and the minerals division of a major oil company ~~optioned~~ leased the property in 1983. ~~This company required hole for annual lab purposes~~ Unfortunately, ~~a suddenly unexpected corporate-wide~~ due to budget ~~cut~~ at the company, they had to turn it back to the owners in ~~1984~~ January 1984. Results of some of the work done to date on the property are available to interested parties. We feel that the mineralization disclosed thus far warrants further investigation.

Further information may be obtained at the above address.

$$\begin{array}{r} 800 \times 20 \text{ acres} \times 20 = \\ \hline 1500 \\ 800 \times 400 \\ \hline 1500 \\ 213 \\ 15 \overline{) 3200} \\ 30 \\ \hline 20 \\ 15 \\ \hline 5 \end{array}$$
$$\begin{array}{r} 1120 \\ 210 \\ \hline 1330 \end{array}$$

..... mapping, sampling, and rotary and diamond exploration....

Corporate-wide budget cut. They

REVISED

2/24/84
WCH



HEINRICHS GEOEXPLORATION COMPANY

P.O. BOX 5964, TUCSON, ARIZONA 85703, 806 WEST GRANT ROAD, PHONE: (602) 623-0528

March 1984

~~January 1982~~

SE Property Summary Sheet

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and La Paz Mountain USGS 7 1/2 minute topographic maps. The claims bear US BLM Serial Numbers AMC 105414 through AMC 105471, ^{and AMC 186704 through 186723.} They were staked in 1980 and 1982.

Ownership rests with four Arizona residents, each with a one quarter undivided interest. They are Walter E. Heinrichs, Jr., William C. Hirt, James D. Loghry, ^{of Tucson AZ} and Richard J. Lundin, ^{of Tucson AZ} all of Tucson, Arizona.

The initial interest in the immediate claim area during recent times was for its porphyry copper-molybdenum potential. In this connection, exploration targets include porphyry copper-molybdenum and/or gold deposits. During the period 1962-1975, mapping, sampling and rotary diamond exploration drilling totalling approximately 18,500 feet was done by several concerns, one of them a major oil and mining company. ^{over} Results of some of this work are available to interested parties. We feel that the mineralization disclosed thus far warrants further investigation.

Further information may be obtained by contacting any of the four owners at the above address.

See over



HEINRICHS GEOEXPLORATION COMPANY

P.O. BOX 5964 TUCSON, ARIZONA 85703. 806 WEST GRANT ROAD. PHONE: (602) 623-0578

October 20, 1982

SE Claims and State Prospecting Permit No. 83801

Lease-option Terms and Conditions

Purchase price: \$10,000,000 or \$5,000,000 plus perpetual NSR or equivalent royalty in the amount of 4% on Federal lands and 2% on state lands. All payments, including production royalties, apply towards the purchase price. Payments toward the purchase price must be structured as capital gains, not advance royalties or rentals. If either of the above alternative purchase prices are acceptable to the optionees, the owners require no term to the agreement; if not acceptable and the optionees offer a reduced price, the owners insist on a 5 year term to the agreement.

Payment Schedule

<u>Year</u>	<u>Amount</u>
1	\$6,000 in advance for the first 6 months. \$7,500 in advance for the second 6 months.
2	\$18,000 in advance
3	\$21,000 in advance
4 and beyond	\$24,000 in advance

Annual labor must be performed by optionee if the claims are held beyond Feb. 1 of any year.

Labor must be physical labor (dozing, drilling, mining, etc.) on the federal claims, and must be at least \$7800 per year except for the 1982-1983 assessment year when the amount shall be at least \$5800.

For the state prospecting permit, annual assessment labor is \$3200 per year for the period ending March 16, 1984 and \$6400 per year for the period ending March 16, 1987. The annual rental for the period March 16, 1984 - March 16, 1987 is \$320. If option is held beyond 15 September in any given year, these obligations must be assumed by optionees.

Sixty days notice is required before dropping the lease or option.

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

Area of interest: There will be an area of interest extending one mile from the exterior boundary of the claim/prospecting permit block. Any claims staked by either party or prospecting permits acquired shall be subject to the terms of the agreement.

Data: All factual data acquired and developed by the optionees shall be released to the owners when and if the lease is dropped. Information or reports shall be made available to the owners periodically during the term of the lease. The owners will hold these data confidential.

Laramide (?) intrusive). DDH Q-1, which was drilled mostly in schist, had intercepts of 200 feet of about 0.6% copper from the surface to a depth of about 200 feet; the copper is in the form of brochantite, chrysocolla, and malachite, partly disseminated and partly on fractures, and also disseminated and veinlet chalcopryite. There is a further 30 feet of approximately 0.6% copper (disseminated chalcopryite - bornite) at 400 - 430 feet. The mineralization in Q-1 is associated with sericite and biotite alteration.

DDH Q-3 intercepted 203 feet of 0.43% copper mineralization, mostly in quartz monzonite, from about 190 feet to about 400 feet of depth. The mineralization is in the form of chalcopryite associated with phyllic alteration (quartz-sericite-pyrite).

Significant amounts of molybdenum are associated with copper mineralization intercepted in DDH Q-1 and Q-3, and probably elsewhere as well.

In DH Q-6 was found 50 feet of 0.2% copper in a faulted block of quartz monzonite. The mineralization is chalcopryite associated with quartz-sericite-pyrite alteration and some tourmaline.

Tourmaline was noted in all of the Q holes, but most strongly in holes Q-2, Q-4, and Q-6, both disseminated and in veinlets.

Many of the earmarks of economic porphyry copper deposits found elsewhere in the Southwest are present in the Sugarloaf Peak area. These include the Pb-Zn-Mo geochemical anomalies, the well developed and widespread alteration zoning, presence of abundant alunite and tourmaline, and outcrops of disseminated copper mineralization in a potassic alteration zone. All these favorable geological characteristics indicate that more work is warranted to test for the presence of economic quantities of disseminated copper - molybdenum mineralization in the Sugarloaf Peak area.

Recent geochemical sampling and mapping (Jan.-Feb. 1982) have revealed the presence of anomalous gold values in host rocks favorable for lode gold mineralization. These results suggest the possibility of a stockwork gold deposit and/or Goldfield, Nevada - type mineralization which could have acted as a source for the placer gold mined in the early days of the district. More work is needed to define the areas of gold anomalism, favorable host rocks and to determine if potential economic targets for gold mineralization exist.

William C. Hirt
Geological Engineer
and Metallurgist

January 1982

SE Property Data and Reports
(in approximate chronological order)

1. McPhar Geophysics IP and Resistivity Survey Location Map (Fig.3), undated but probably between 1962 and 1971.
2. Report titled "Base Metal Distribution at Sugarloaf Peak, Quartzsite Mining District, Yuma County, Arizona" dated August 1971, text 4 pp., with drill hole data including core logs, drill chip logs, and metal ratio graphs for drill holes DDH S-1, DDH S-2, DDH S-3, DDH SL-4, DDH SL-5, DDH SL-6, RH SL-7, RH S-8, RH S-10, RH SL-13, and DDH SL-15 (these are partly rotary and partly core holes), accompanied by map titled "Generalized Alteration - Sugarloaf Peak Area", dated August 1971 (two copies, one with outline of claim block), and also by another map (undated) entitled "Dome Rock Mtns Quad" which shows the location of the S and SL holes.
3. Assay logs for RH V-1 through RH V-15 (all rotary drill holes except for three feet of NX core on hole RH V-15), drilled in 1972.
4. Report titled "Exploration Potential of the Sugarloaf Peak Area, Quartzsite Mining District, Yuma County, Arizona" dated May 25, 1973, 12 pp., with 3 pp. cover letter, accompanied by maps:
 - a. "Alteration Map - Sugarloaf Peak Prospect", May 25, 1973.
 - b. Molybdenum Geochemical Values, Lead Geochemical Values, and Mo/Pb Ratio Maps, all of the Sugarloaf Peak Prospect, dated May 1973.
 - c. Cross Section through Sugarloaf Peak, dated May 1973.
 - d. Magnetometer Survey Profiles, dated May 1973.
5. Assay and Core Logs for DDH Q-1 through Q-6 (NX core holes drilled in 1974-1975).
6. Map titled "Quartzsite Geology and Alteration" dated February 1975 showing location of Q holes.
7. Map titled "Quartzsite Project, Yuma County, Arizona", dated May 30, 1975 showing location of Q holes.
8. Undated Map showing drill hole locations and claim block outline.
9. Geologic Map of the Central Dome Rock Mountains by W. J. Crowl, 1975 (University of Arizona thesis).
10. SE Property Map 1982



BARRINGER LABORATORIES

AUTHORITY: RON LONG

BARRINGER RESOURCES INC.
OFFICES & MINERALS
LABORATORY:
1455 DEMING WAY, SUITE 15
SPARKS, NEVADA 89431
PHONE: (702) 358-1158

REC'D MAR 25 1986

21-MAR-86

PAGE: 1 OF 2

COPY: 1 OF 2

LOGLAC MINERALS

1475 GREG ST.
SPARKS, NEVADA
89431

ATTN: RON LONG

PROJECT: AZ, RECON

SE/SP CLAIMS, LA PAZ CTY. AZ

WORK ORDER: 4469R-86

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: ROCK

FIRE ASSAY

SAMPLE NUMBER	FIRE ASSAY	
	AU PPB	AG PPM
A: 5613	10.0	0.6
A: 5614	26.0	0.4
A: 5615	4.0	0.6
A: 5616	19.0	1.3
A: 5617	7.0	0.3
A: 5618	13.0	<0.1
A: 5619	4.0	<0.1
A: 5620	8.0	<0.1
A: 5621	15.0	<0.1
A: 5622	13.0	0.2
A: 5623	8.0	<0.1
A: 5624	17.0	<0.1
A: 5625	110.0	0.8
A: 5626	411.0	<0.1
A: 5627	2123.0	0.4
A: 5628	788.0	0.2
A: 5645	142.0	0.5
A: 5646	61.0	<0.1
A: 5647	73.0	<0.1
A: 5648	327.0	0.9
A: 5649	219.0	0.2
A: 5650	314.0	0.4
A: 5651	154.0	<0.1
A: 5652	MS	MS
A: 5653	180.0	<0.1
A: 5654	<2.0	<0.1
A: 5655	181.0	1.6
A: 5656	7.0	<0.1

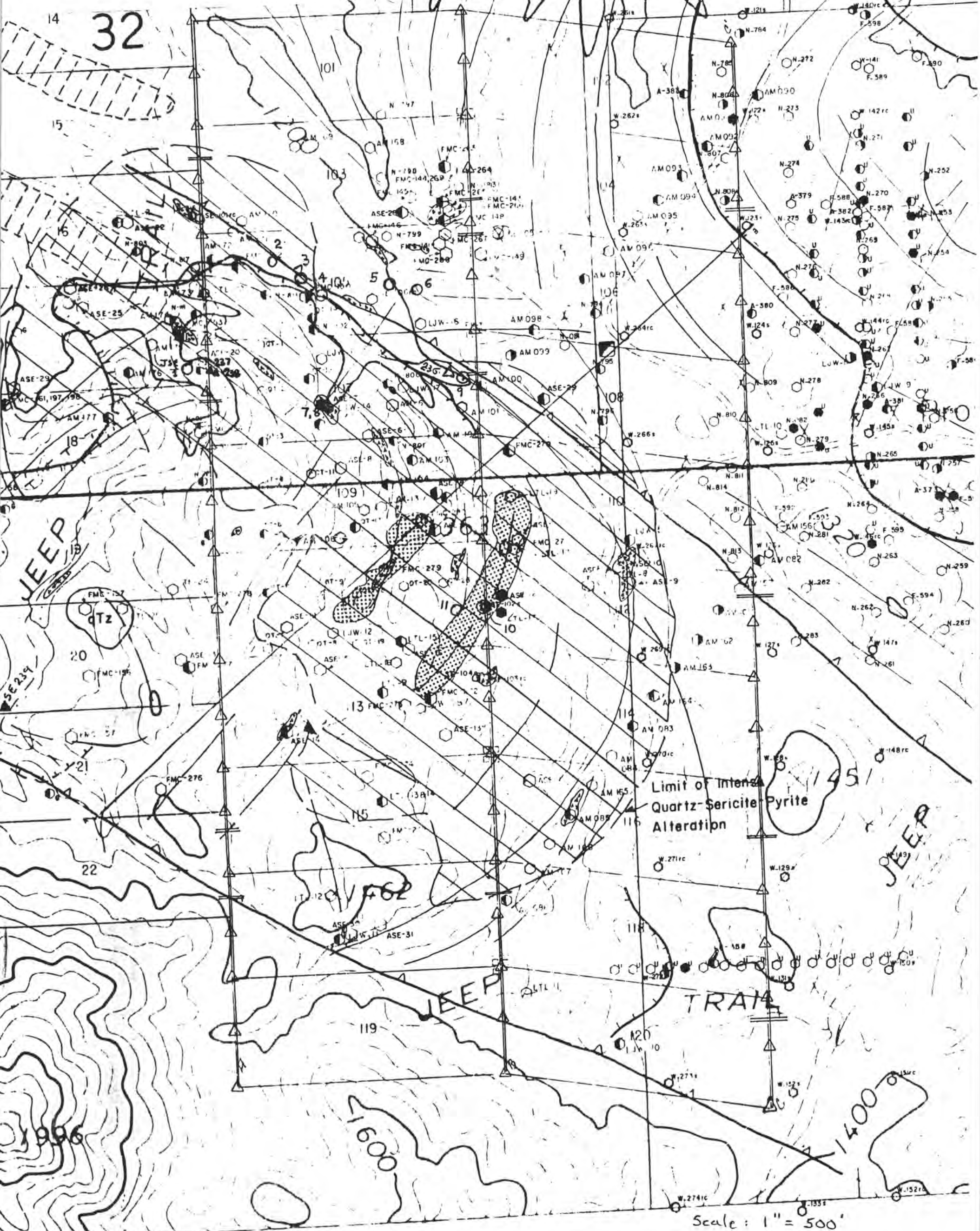
SE CLAIMS
La Paz County, AZ

SAMPLE LOCATIONS

JSE 1 - 11

J.C. Stewart, Placer U.S.
J.D. Loghry, SE Partners

April 1, 2, 1986



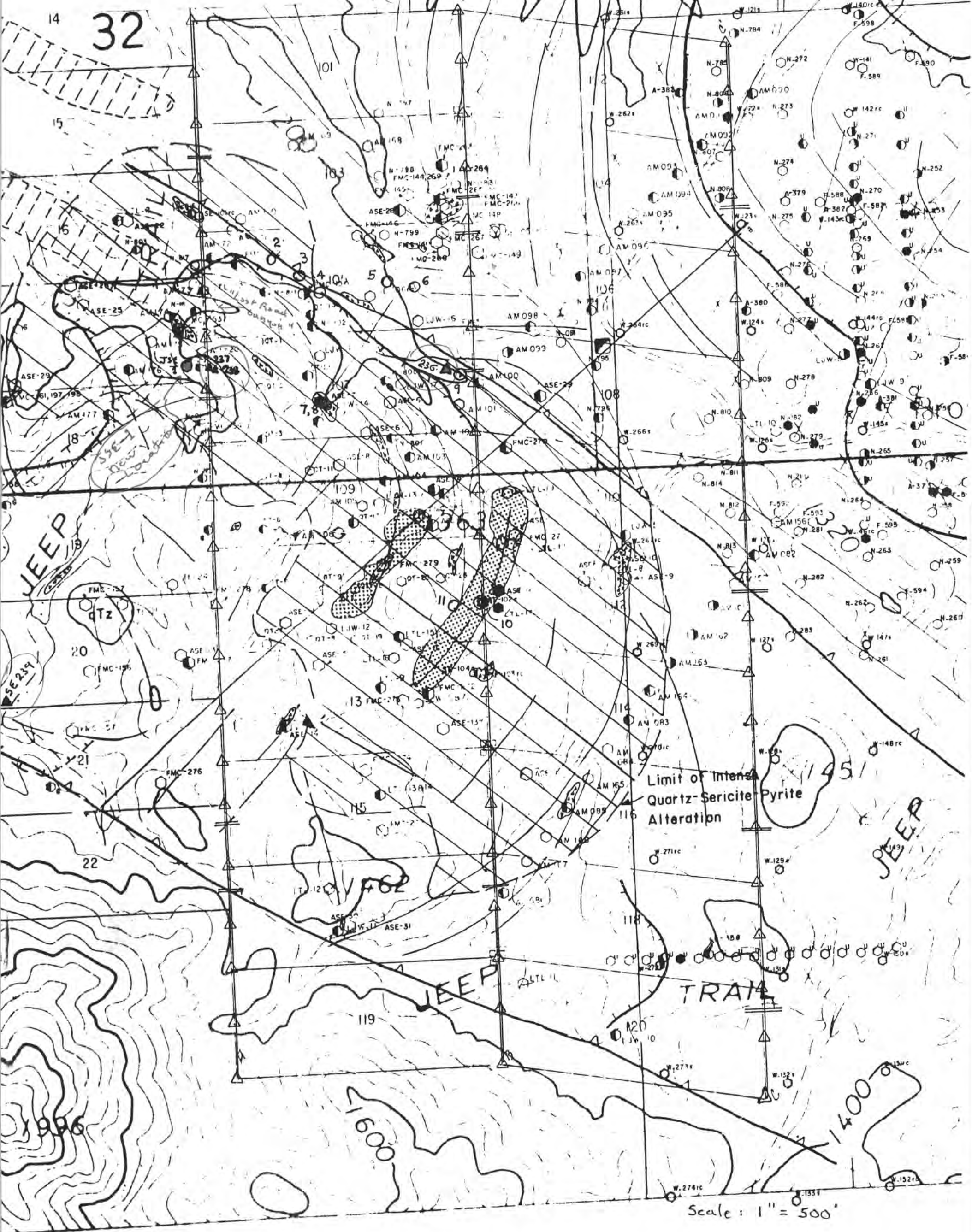
SE CLAIMS
La Paz County, AZ

SAMPLE LOCATIONS

JSE 1 - 11

J.C. Stewart, Placer U.S.
J.D. Loghry, SE Partners

April 1, 2, 1986



J. C. Stewart, Placer U.S.
Sample List

STRAY ELEPHANT

11 APRIL, 12 & 13TH

SE #235 - #259 - SURFACE ROCK CHIP

SE #

17 DRILL HOLE SAMPLES

COBRE DRILL

3' 9" DEPTH

2 in DIAMETER

ROCK CHIP

DRILL

SE-208 (No. 8, 10" qtz vein, Walt)

201-C

210 (was 208C) 8' wide qtz vein

202-C

235 RL JDL - "Old Road" Canyon

203-C

236

204-C

237

205-C

238

206-C (was 207-C) No. 6 hole

239

207-C

7 SAMPLES

209-C (on ridge west, with)

211-C

212-C

213-C

214-C

215-C

216-C

217-C

15



J.J. Bensing
Supervisor, Property Records

Amoco Minerals Company

7000 South Yosemite Street
Post Office Box 3299
Englewood, Colorado 80155
Negotiations & Land Department
303-740-5279

March 23, 1984

Express Mail

Mr. Walter E. Heinrichs, Jr.
President
Heinrichs Geoexploration Company
P.O. Box 5964
810 W. Grant Road
Tucson, Arizona 85703



Dear Mr. Heinrichs:

State of Arizona
Prospecting Permit No. 08-83801
LaPaz County, Arizona

Please find enclosed for your further handling a Decision and Order from the State of Arizona, State Land Department, stating Prospecting Permit No. 08-83801 is cancelled. Since the Decision and Order was addressed to Amoco Minerals Company as Permittee, the Assignment we provided you January 30, 1984, was evidently not filed with the State Land Department, or reinstatement of your restoration and damage bond with Aetna Life and Surety Company was not completed. Please note, at the top of the Decision and Order, reference is made to Prospecting Permit No. 08-83801 while in the decision, Prospecting Permit No. 08-84353 is ordered cancelled.

Should you want to obtain a State Prospecting Permit on the property covered by 08-83801, you will need to reapply to the State Land Department.

Sincerely,

J. J. Bensing

JJB/ms

C. A. Gardiner
A. G. Humphrey
M. T. Nesbitt

*W.C.H. ✓ Read.
3/27/84 cc. R.B.L. ✓
J.D.L.*

STATE LAND DEPARTMENT OF THE STATE OF ARIZONA
BEFORE THE STATE LAND COMMISSIONER

IN THE MATTER OF STATE MINERAL
PROSPECTING PERMIT NO. 08-83801
FOR THE STATE LAND DESCRIBED
THEREIN.

DECISION AND ORDER

PERMITTEE: AMOCO MINERALS COMPANY

The files of the Arizona State Land Department (the Department) reflect that:

1. On February 7, 1984, a letter from Aetna Life and Surety Company was received, notifying the Department of their intention to cancel the restoration and damage bond covering State Mineral Prospecting Permit No. 08-83801 for the State land described therein.

2. On February 16, 1984, a letter was sent certified mail to the above-named permittee, notifying them of cancellation of the restoration and damage bond and requesting that replacement bond be submitted to the Department within thirty (30) days of date of letter.

3. As of this date, no replacement bond or correspondence has been received.

The Department, therefore, finds for failure by permittee to provide a replacement restoration and damage bond, it is not in the best interest of the State Trust to continue State Prospecting Permit No. 08-83801.

IT IS ORDERED that State Prospecting Permit No. 08-84353 be, and the same hereby is cancelled.

This Order is effective immediately.

GIVEN under my hand and the official seal of the Arizona State Land Department this 21st day of March, 1984.

STATE
LAND
DEPARTMENT
SEAL

Richard B. [Signature]
for
STATE LAND COMMISSIONER

Certified No. 387490 Amoco Minerals Company
ATTN: H. L. Bauer, Jr.
P. O. Box 3299
Englewood, Colorado 80155

Copy to: Russell A. Kolsrud, Attorney General's Office

LJF/137

LABRADEX CORPORATION

1280 TERMINAL WAY
RENO, NEVADA 89502
TELEPHONE (702) 786-6428

April 6, 1984

Mr. James D. Loghry
2121 E. Monte Vista Drive
Tucson, Arizona 85716

RE: SE Claims
La Paz County, Arizona

Dear Jim:

I am enclosing herewith the following data relative to the SE claims:

1. Your original sample map.
2. Sample location map showing Labradex samples.
3. Chemex Labs, Ltd., assay report.
4. Sample descriptions for Labradex samples.

We collected fifty-one (51) rock samples on the SE claims and adjacent lands to the east. Sample sites are marked with aluminum tags. As you can see from our results, most samples contained detectable gold. Our reconnaissance examination suggested that silicification on the SE property is very localized and gold mineralization is quite spotty and confined. At this time we do not see a reasonable target where we could confine our efforts.

I discussed the West World Oil and Gas property with Art Humphrey of Amoco Minerals. Art said that he was allowed to see the assay results for the ten or so holes West World drilled last summer and that West World effectively killed their property. They had no decent gold assays. I know nothing about their drill program or assay technique. Our sample 84-JW-09 of West World drill cuttings did show 150 ppb gold.

Thank you for allowing us to examine this property and to utilize the enlarged topographic base map.

Related to another matter, I expect to be in Tucson on April 16 and 17 and would be able to show you our property data (Fit Claims, Pershing County, Nevada, and Mary Claims, Eureka County Nevada) if you are available. Our reports and map packages are

Mr. James D. Loghry

-2-

April 6, 1984

quite extensive and I have not been able to compile short summaries yet. Hope to see you in April.

Sincerely,

LABRADEX CORPORATION

A handwritten signature in dark ink, appearing to read "Jon", with a stylized flourish extending from the end of the word.

Jon P. Broderick

JPB:RMM

Encl.

└

Δ 0.560
O 0.19

0.10

Q. 3. 22

Sally's choice

☐ 0.22
☐ 0.72
☒ 3.78
☐ 0.16
☐ 0.46
☐ 0.03
☐ 0.64
☒ 0.03
5
☐
☐
☐ 0.91
☐ 0.91
☐ 0.91
☐ 0.91
☐
☐ 0.01
☐
☐
☐
☐ 0.12
☐ 0.03

	<input type="checkbox"/>	0.46
	<input type="checkbox"/>	0.32
	<input type="checkbox"/>	0.30
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0.46	<input type="radio"/>	0
0.40	<input type="radio"/>	0.5
	<input type="checkbox"/>	0.16
	<input type="checkbox"/>	0.08
	<input type="checkbox"/>	0.01
	<input type="checkbox"/>	0.01
	<input type="checkbox"/>	0.12
	<input type="checkbox"/>	
	<input type="checkbox"/>	

$\Delta 1.05$

0.16c

$\Delta 0.2485$

0.43
0.000
0.195

 $\Delta 0.125$ $\Delta 0.250$

$\Delta 0.035$
 0.24
 $\Delta 0.11$

$\Delta \Delta$

Δ 0.010 Δ 0.010

Δ 0.000

$$\begin{array}{r} \Delta 0.045 \\ \Delta 0.025 \\ \hline \Delta 0.070 \end{array}$$

○ ○ ○

0.17

A hand-drawn diagram consisting of a horizontal line. On the left side of the line, there are four short, parallel diagonal tick marks. On the right side, there is a wavy line that starts with a small semi-circle pointing down, followed by a larger, more complex wavy shape. Below the horizontal line, the word "North" is written vertically in a handwritten style.

Sugarloaf, Pleasant
Yuma Co., AZ

34	35
3	2

1"=500'

MGS 8/82

* ☐ Utah International Inc. rock chip sample; only 1% no value indicates Au < 0.01 ppm.

- Wallaby Enterprises rock chip sample; samples with values < 0.10 ppm do not available.
- △ Fairmont Oil Corporation rock chip sample.

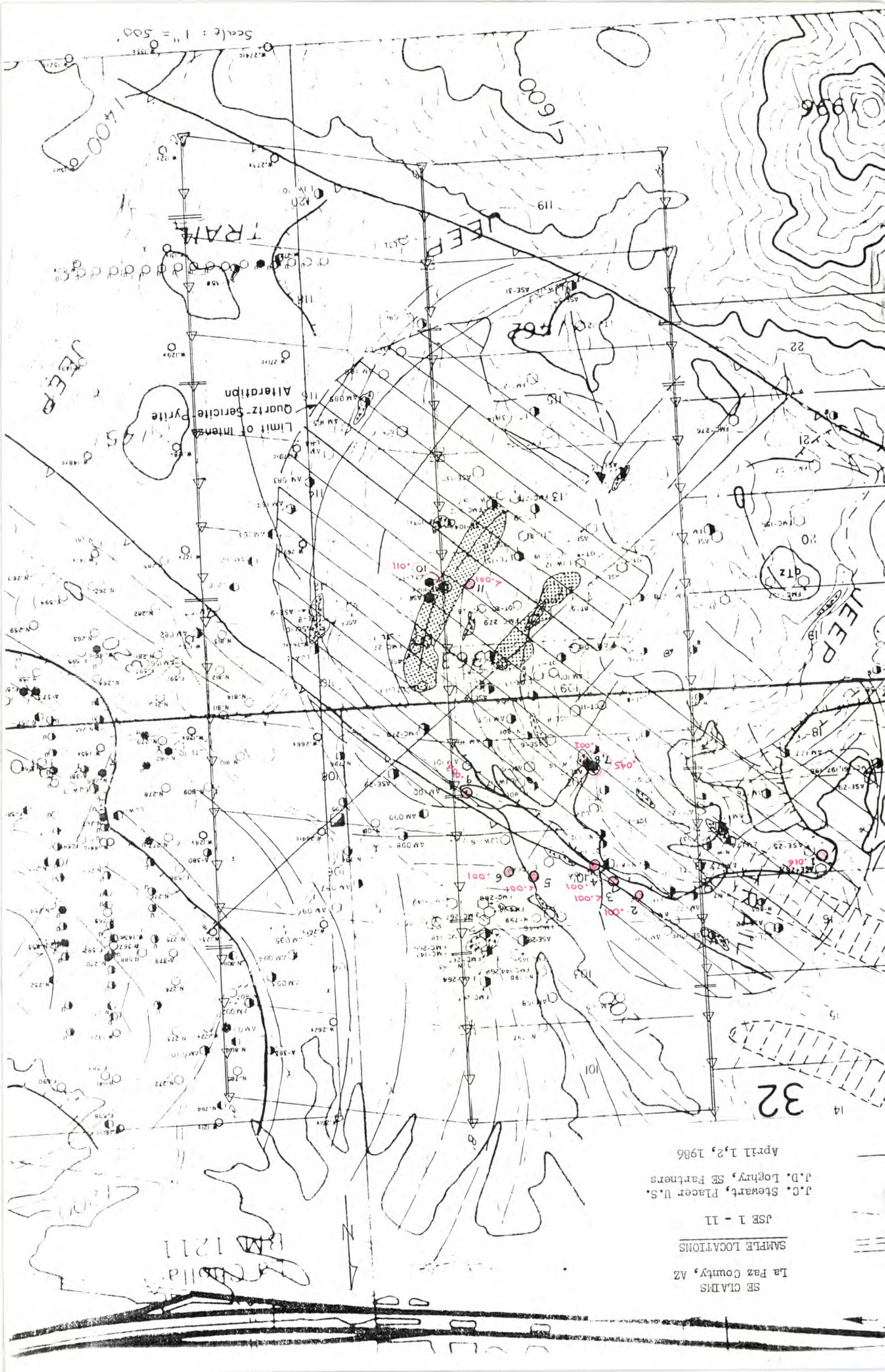
* nothing and nothing referred to 004,006
of southeast corner EP 72; indicates initial
sample point on him.

MARIC



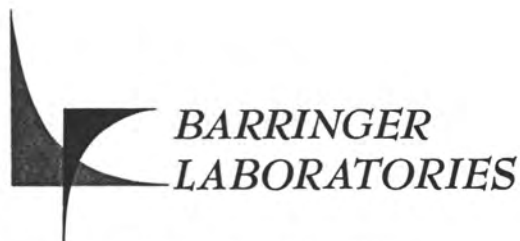
Figure 10. La Paz, Middle Camp-Oro Fino, and La Cholla districts

SE CLAIMS
La Paz County, AZ
SAMPLE LOCATIONS
JSE 1 - 11
J.C. Stewart, Placer U.S.
J.D. Loghry, SE Partners
April 1, 2, 1986



ABSTRACT OF ENTRIES

DATE	TYPE of LEASE	LEASE No.	SUBDIVISION	ACRES	NAME	APPRD	BEGINS	Expires	PAID TO
9/6/60	A	1591-B	All	640.00	James Pickett				
9/23/60	A	1637-B	All	640.00	Edd Midgett				
9/28/60	A	1642-B	All	640.00	Bill Burns				
3/23/61	A	1724-B	All	640.00	Edward C. Colson	3/23/61	3/23/61	3/22/63	
9/17/61	A	1750-B	All	640.00	W. I. Durant				
10/2/61	A	1943-B	All	640.00	V. H. Veckert	12/18/61	11/7/61	11/6/63	
8-15-63	LT	1926-B	ALL	640.00	MELVIN L. FIELDS	9/26/63	11/6/63	11/6/63	
9-24-63	A	1926-B	NZ	320.00	MELVIN L. FIELDS	11/7/63	11/7/63	11/6/65	
10-19-65	A	1926-B	NZ	320.00	MELVIN L. FIELDS	11/8/65	11/7/65	11/6/67	
11/14/67	A	1926-B	NZ	320.00	Melvin L. Fields	11/14/67	11/7/67	11/6/77	
2-14-63	LT	3263B	TRAV 52552	4.00	Yuma Co Hwy	11/8/63	7/6/63	INDEF	
12/23/81	D	83740 B	NZ	320.00	FRANK C. AMAVISEA	8/12/82	11/2/82	9/27/86	
12/5/83	LT	83740 B	NZ	320.00	Amavisea Land & Cattle, Inc	7/6/84		9/3/86	
7-7-86	OS	83740-B	NZ	320.00	AMAVISEA LAND & CATTLE INC	7-19-86	9-28-86	9-27-90	
					\$300 / acre / ft				
					65 / acre - ft for oil additional				



BARRINGER LABORATORIES

AUTHORITY: RON LONG

LONGLAC MINERALS
1475 GREG ST.
SUITE 6
SPARKS, NEVADA
89431
ATTN: RON LONG

BARRINGER RESOURCES INC.
OFFICES & MINERALS
LABORATORY:
1455 DEMING WAY, SUITE 15
SPARKS, NEVADA 89431
PHONE: (702) 358-1158

05-MAR-86
PAGE: 2 OF 3
COPY: 1 OF 3

PROJECT: AZ RECON

SE/SP CLAIMS, LA PAZ Cty, AZ

WORK ORDER: 4342R-86
*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: ROCK

S A M P L E N U M B E R		FIRE ASSAY	
		AU PPB	AG PPM
A:	5595	21.0	<0.1
A:	5596	22.0	<0.1
A:	5597	1199.0	18.6
A:	5598	67.0	<0.1
A:	5599	16.0	0.2
A:	55609	350.0	0.2
A:	55610	42.0	0.3
A:	55611	457.0	1.9
A:	55612	33.0	0.2

October 24, 1989

James D. Loghry
Consulting Geologist
2121 E. Monte Vista Dr.
Tucson, AZ 85719
(602) 323-2945

Walter E. Heinrichs
Heinrichs GEOXploration
P.O. Box 5964
Tucson, Arizona 85703-0964
(602) 623-0578

Stray Elephant Copper Deposit
La Paz County, AZ

Location and Ownership

The Stray Elephant copper deposit lies within the west block of the SE Claim group, the SE 23-52, and SE 57-62 claims, AMC Nos. 105436 - 105471, a block of 36 contiguous claims largely in Section 31, T4N, R20W, and Section 6, T3N, R20W (see enclosed maps), part of a group of 78 contiguous SE Claims. The east block of 42 claims covers an area with potential for large, low grade gold deposits, access roads that would support the copper operations, areas suitable for leach pads and SX-EW plant and a possible water supply. The claims are in the Middle Camp - Oro Fino mining district in the south Dome Rock Mountains, La Paz County, Arizona, along and south of Interstate 10, 7 - 8 miles west of Quartzsite, Arizona and about 13 miles east of Blythe, California (USGS Middle Camp Mountain 7.5' Quadrangle).

The property offers easy access, nearby electric power and natural gas. Water supply would come from wells to be drilled on the property or from a well to be drilled or leased in the Colorado River valley about 5 miles westerly. There appears to be a light power line 0.7 miles north of Outcrop Hill along I-10 but the closest heavy duty power is about 3 miles west and a big water well is at the Beacon service station and Ryder factory at Tom Wells Road 4.6 miles away, west of the property.

The claim owners, each owning an equal undivided 25% interest in the SE Claims are:

- 1) Heinrichs GEOEXploration Company, an Arizona Corporation, Walter E. Heinrichs, President, located at 810 West Grant Rd., Tucson, Arizona 85705; mailing address P.O. Box 5964, Tucson, Arizona 85703-0964, which addresses shall serve as the claimowners' address;
- 2) William C. Hirt, a single man, residing at 639 South 500 East, Salt Lake City, Utah 84102;
- 3) James D. Loghry and Margaret R. Loghry, husband and wife, residing at 2121 East Monte Vista Dr., Tucson, Arizona 85719;
- 4) Richard J. Lundin and Vicki J. Lundin, husband and wife, residing at 372 Hackberry Circle, Prescott, Arizona 86303.

Property History

The property was originally located in 1906 by Miguel Apodoes (spell?), later by Beggs and McIntyre who did shallow surface exploration and drove an adit and winze in the 1920's when the property was known as the Weaver mine. After the death of Beggs, Ben Scott located the property and it came to be called the Scott-Weaver mine.

Royal Investment Company - 1956

Royal Investment Corporation optioned the property from Scott and explored it in 1956 under the direction of E. Ross Householder, a well-known Kingman mining engineer. Royal dug and sampled numerous trenches, sampled ore grade material in the adit and winze, made at least two carload smelter shipments of oxide copper ore and drilled 4 vertical diamond drill holes.

Householder (9/29/56, 12/19/56) reported: 21 bulk samples taken from trenches, underground workings and outcrops that averaged 1.85% Cu; two car loads, 104 tons, that averaged 1.1% and 2.1% Cu; DDH No. 1, 0-101 feet, 24 feet lost, 77 feet average 1.02% Cu; DDH No. 2, 0-130 feet average 1.15% Cu; DDH No. 3, drilled a short distance north of the copper deposit was assayed to 102 feet, has three composite sample assays ranging from trace to 0.2% Cu; DDH No. 4, 0-156 feet average 1.4% Cu, bottomed in 3.7% Cu. When assayed, gold and silver values in the deposit were found ranging from 0.002 - 0.02 OPT Au and 0.1 - 1.2 OPT Ag. The highest grade surface sample taken from the #1 (drill hole?) access road assayed 3.41% Cu, 0.02 opt Au and 1.2 opt Ag.

Householder reported that the copper deposit is over 3900 feet long. From the above sampling program Householder assumed an average grade of 1.58% Cu for the entire deposit and 375,000 tons of positive and probable ore, 720,000 tons of possible ore plus 2,500,000 tons of expectant ore, totalling 3,595,000 tons. He recommended more core drilling which he believed would double those reserves. The recommended drilling was never accomplished.

Kerr McGee/Hancock Oil - 1960 - 1975

The property was further explored and developed by Hancock Oil Company in the 1960's. Burton Hancock apparently purchased the property from Ben Scott, continued surface exploration work and drilled one rotary hole S-1 in the wash beyond the east outcrop of the copper deposit, results unknown. He surveyed 9, perhaps 13 claims for patent, but died before completing the patent process. Kerr McGee staked most of the district and leased the Hancock property in 1973-75, as part of a large porphyry copper exploration project, drilling 6 diamond drill holes, Q-1 - Q-6. Q-1 is a vertical hole within the deposit which cut 190 feet of ore grade copper, the upper 110 feet being oxide copper ore. Q-3 is a vertical hole on the north boundary of the deposit which found chalcopyrite ore. The others are outside of the Stray Elephant copper deposit, Q-6 being an angle hole directed under

the deposit. Near the Q-6 collar, Q-2 is a vertical hole north of the deposit. Q-4 is an angle hole drilled on the presumed buried east extension of the deposit that missed the deposit. Q-5 is an angle hole that never reached the deposit. Kerr McGee personnel felt that the potential of the Stray Elephant copper deposit as known at the time was 15,000,000 to 20,000,000 tons of ore-grade copper mineralization at or near the surface in Hancock Wash. They thought that the deposit might be part of a much larger concealed porphyry copper ore body, so most of their holes were drilled outside and beneath the deposit, in an effort to expand it or discover its possible buried extensions. Vertical DDH Q-1 was drilled on a pad within an open cut in the deposit on the north side of Outcrop Hill, cut 0-110 feet of 0.52% Cu as the copper oxides chrysocolla and lesser malachite and brochantite and 110-190 feet of 0.82% Cu as chalcopryrite, a combined 190 feet of 0.65% Cu; also at 410-440 feet, 30 feet of 0.86% Cu as chalcopryrite. Vertical DDH Q-3, immediately north of the oxide copper deposit, found about 203 feet of quartz monzonite containing 0.43% Cu as chalcopryrite at 190-400 feet. Adjacent holes DDH H-2 and Cyprus RDH SE-3 were in oxide copper ore.

The property came open after Burton Hancock's death and the present owners staked the SE Claims in 1980 and 1982.

Amoco Minerals - 1983

In 1983, Amoco Minerals optioned the SE Claims, did a limited amount of geologic mapping and geochemical sampling and on August 22, 1983, drilled one 150 foot diamond drill hole (SE-1) in the silicified zone a short distance north of the alluvium-buried contact of the Stray Elephant copper deposit solely to fulfill assessment work requirements. They seemed to have selected a convenient site that required no cat work and made no attempt to drill the copper ore on Outcrop Hill. From 10 - 150 feet, the hole averaged 47 ppm Cu, 0.2 ppm Au and 1 ppm Ag. Because of its location, this hole has no bearing on the ore potential of the SE copper deposit. In November, 1983, Fuller, under the direction of F. Mack of Amoco collected 18 rock chip samples (F 2633 - F 2650), 11 of them (F 2637 - F 2647, range 485 - >10,000 ppm Cu, average >3663 ppm Cu) from leached outcrops in the copper deposit of Outcrop Hill (see 1" = 200' topographic map). Using a cutoff of 0.2% Cu, which excludes four samples, seven samples ranged from 2800 to >10,000 ppm Cu, averaging 5343 ppm or 0.53% Cu. Amoco dropped the lease abruptly in January, 1984 when budget cuts demolished their hardrock exploration program and dismembered their minerals exploration department.

Cyprus Metals Company - 1988

In November, 1987, Dr. William Rehrig, President of Applied Geologic Studies, Inc. (AGS), a Denver consulting firm, examined the Stray Elephant copper deposit for client Cyprus Metals Company. At that time, Cyprus was looking for copper oxide deposits with a potential greater than 5,000,000 tons @ 0.5% Cu,

or 50,000,000 pounds of copper. Cyprus felt that they could make a substantial fast profit from heap leaching and using portable SX-EW plants on such deposits. At that time Cyprus management agreed with Dr. Rehrig that the Stray Elephant met their requirements and optioned the property February 23, 1988. The prospect was assigned to the engineers of Cyprus Metals Development, Green Valley, Arizona, who were engaged in examining mines and buying ore reserves and plants. They were not interested in exploring the Stray Elephant or any pre-development property no matter how appealing and tried to skuttle the project. James Compton, President of Cyprus Metals insisted that they follow through with a drilling program and in May, 1988, they reluctantly ordered AGS to start work on the property with no advance preparation, limited time and a very small budget.

Dr. Rehrig assigned consulting geologist Dr. David Wahl to the project. Wahl did a fine job in spite of the limitations forced by Cyprus Metals Development. He examined the property for the first time with me and Rehrig on a hot May 4th. Within two weeks he collected surface samples and prepared a map of the west half of the copper zone, did the necessary BLM permitting, hired contractor Hollis Ramsey of Parker to rebuild old trails and construct new trails and drill sites he had selected for a mobile reverse circulation drill rig AGS had contracted for. It turned out that the driller was not licensed to operate in Arizona and Cyprus Development would not allow AGS the time to find another reverse circulation rig, but insisted that a large truck mounted rotary drill of Ventures Drilling Company be employed immediately, even though it had limited angle hole capability and was too large to get on the critical sites on Outcrop Hill, where the largest tonnage potential appeared to be.

Wahl's 16 surface samples in the copper deposit range 0.08-1.76% total Cu, averaging 0.55% total Cu. Using a 0.2% Cu cutoff, 11 samples average 0.74% Cu. Eleven samples with acid soluble copper assays range 0.08-1.58% A.S. Cu. With a 0.2% Cu cutoff, 9 samples range 0.37-1.58 A.S. Cu and average 0.70% A.S. Cu.

From June 3 thru June 11, 1988, 8 rotary holes, SE-1 - 8, ranging from 155 to 350 feet for a total footage of 1910 feet, were drilled by the Ventures Drilling Company of Tucson under Wahl's supervision. Five were vertical holes; three were angle holes directed S80W or S120W at -57-63°. They are scattered along 2600 feet of the copper deposit, 300 to 1,130 feet apart. All but two of them cut ore grade copper oxide and sulfide mineralization. Drill hole SE-5 does not show the ore body because it passes below the ore intercepts of Kerr McGee DDH Q-1 and DDH H-1. Drill hole SE-7 is a vertical hole that cut 155 feet of well-altered and mineralized granite (quartz monzonite) and schist with anomalous copper values. I suspect that the ore will be found by drilling a short distance south of RDH SE-7. Geology, mineralization, total copper and acid soluble copper assays are summarized in Table 1.

A cursory inspection of Wahl's cross sections drawn on the ore holes suggest the presence of a copper zone 50 to 100 feet wide, controlled by and spreading out from two well-mineralized vein-faults dipping northerly at 60-70°. The widths are actually much greater. On Outcrop Hill, the partly exposed deposit is about 200 feet to 400 feet wide. In the east target area, outcrops on both sides of the wash suggest possible widths of 600 to 900 feet. The Cyprus angle holes appear to have penetrated a zone of cupiferous veins and veinlets 50-100 feet wide, but did not test the broader surface and near-surface copper oxide deposit that promises substantial open pit tonnage.

At the conclusion of the preliminary program, AGS personnel reported to Cyprus that the deposit has a resource of about 5,000,000 tons of material greater than 0.5% Cu, and recommended more drilling to prove up ore reserves. Cyprus Development personnel replied that they had doubled their original tonnage and grade requirements and were not interested in any further testing of the Stray Elephant deposit. We were advised that Cyprus would be dropping the option in a letter of July 14, 1988 and the contract expired August 15, 1988.

Geology and Ore Potential

The Stray Elephant copper deposit occurs in a steep north dipping N60-70°W reverse fault zone along the contact of a strongly altered quartz monzonite porphyry stock and Jurassic metavolcanic schists and metasediments. The higher grade copper mineralization occurs in the schists, although there is ore grade mineralization in the quartz monzonite as well. Much of the deposit is concealed under the shallow alluvium of Hancock Wash, but outcrops of strong oxide copper mineralization and associated silicification and argillization can be observed over a length of more than 4200 feet. Refer to B. Leedy's 1" = 1000' geologic map for an independent survey.

The prospect area to be explored is over a mile long. Only a small amount of copper mineralization has been found west of the Stray Elephant property on the State-owned east half of Section 36 and we believe it has little potential for ore deposits. A middle block of prospective ground 1,100 feet long, completely covered by the sand and gravel of Hancock Wash has been prospected by only two drill holes, DDH Q-4 and RDH SE-7. I am certain that there is a substantial tonnage of oxide copper ore concealed in the middle block. To the east the copper zone is largely covered by the shallow alluvium of Hancock Wash and a covered extension is assured by RDH SE-6, copper oxides in outcrops and large areas of leached capping. My impression is that all of the alluvium in the wash is underlain by leached capping, suggesting a large amount of copper oxide mineralization below. The Eastern Target area that needs to be explored by drilling is at least 2,000 feet long and 600 to 900 feet wide. The largest ore potential on the property is obviously here, but

there is only one drill hole. The best known section of the property is the ore grade copper deposit on and west of Outcrop Hill. It appears to be 1500 feet long and 200-400 feet wide.

Possible Ore Reserves - Outcrop Hill

Since this report was originally written in January, 1989, I have had time to study the Cyprus data (D. Wahl, 1988) and draw some conclusions as to possible ore reserves and potential of the Stray Elephant copper deposit. On Wahl's 1"=200' Drill Hole Location Map, I have drawn the approximate limits of significant copper oxide mineralization and plotted areas of probable oxide copper ore on Wahl's cross sections. During a recent trip to the property, I concluded that those limits are larger. In these calculations, the Outcrop Hill deposit is considered to be 1480 feet long and 200 to 400 feet wide, with 7 blocks of possible ore.

The RDH SE 2 possible ore cross section has at least 20,000 sq ft; SE 1, 36,000 sq ft; SE 5, 36,000 sq ft; SE 3, 54,000 sq ft; SE 8, 36,000 sq ft; SE 4, 27,000 sq ft.

From West to East (12.5 cu ft/ton divisor):

				% Cu	%ASCu
1)	0 - RDH SE 2	350' X 20,000 sq ft	560,000 tons	.42	.36
2)	SE 2 - SE 1	350' X 45,000 sq ft	784,000 tons	.70	.33
3)	SE 1 - SE 5	180 X 36,000 sq ft	518,400 tons	.43	.36
4)	SE 5 - SE 3	200' X 45,000 sq ft	720,000 tons	.70	.38
5)	SE 3 - SE 8	160' X 45,000 sq ft	576,000 tons	.74	.40
6)	SE 8 - SE 4	170' X 31,500 sq ft	428,400 tons	.56	.36
7)	SE 4 - 1480W	70' X 27,000 sq ft	151,200 tons	.49	.36
	Total Possible Reserves		3,738,000 tons	.60	.36

It is recognized that there are not enough samples, nor are they widely and well enough distributed in each block to propose a reliable weighted average grade. None-the-less, it's a start. It is also proposed that the acid soluble or cold copper assays are considerably lower than the amounts of copper we can expect to recover. Bottle roll tests by Metcon Research (September 8, 1989) support this view. Arithmetic averages of surface and drill holes are discussed below.

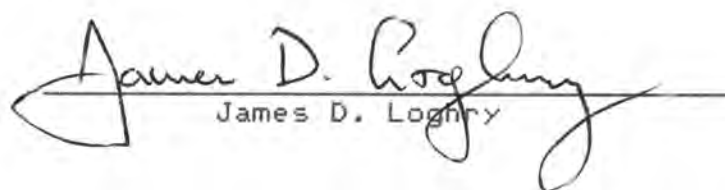
Average grade of oxide copper reserves is expected to exceed 0.5% Cu. This conclusion is based on a compilation of 220 surface and

drill hole assays from Outcrop Hill and RDH SE-6 (the only hole in the East Target) which range from 0.03% thru 3.70% Cu and average 0.64% Cu. Average assay of 122 of those samples assayed for Acid Soluble Cu is 0.43% A.S. Cu (range 0.01 - 2.95% A.S. Cu). With a 0.2% Cu cutoff, 175 of the 220 samples average 0.77% Cu, and 87 samples average 0.56% A.S. Cu. With a 0.1% Cu cutoff, judged to be reasonable at >85 cents/lb. copper, 202 of the 220 samples average 0.69% Cu, and 104 samples average 0.50% A.S. Cu.

Most of the samples taken to date are from Outcrop Hill. Until more data are available, they represent the possible grade of the 3,738,000 tons of possible reserves in blocks 1 thru 7 referred to above. In the reserve area, 194 samples range from 0.03 thru 3.70% Cu and average 0.64% Cu. 104 samples range from 0.01 - 1.73% A.S. Cu, averaging 0.38% Cu. With a 0.2% Cu cutoff, 175 samples average 0.77% Cu, and 87 samples average 0.56% A.S. Cu. With a 0.1% Cu cutoff, 184 samples average 0.67% Cu, and 86 samples average 0.45% A.S. Cu.

The 3.7 million tons proposed occupy only 1/3 of the length of the copper zone, so one could consider a total potential reserve of 11 million tons, triple the possible reserves of Outcrop Hill. However, drill holes Q-4 and SE-7 found no ore, although it is probably present in their vicinity, so a very conservative estimate of the potential is at least 7.5 million tons, double the possible reserves of Outcrop Hill.

The east target area has one drill hole, SE-6, which cut 0.81% Cu at 55-115 feet and 0.7% Cu at 160-180 feet, with limonitic leached capping above and between the oxide ore zones. The 80 foot thick ore section of this hole and the >500 foot width suggested by mineralized exposures on both sides of the wash over a 2,000 foot length suggest an exploration potential of over 6,000,000 tons in the east target. On this basis, the Stray Elephant property has a potential of over 10,000,000 tons of oxide copper ore.


James D. Loggins

January 3, 1990

Re: Proposed Deal, 78 SE Claims
Stray Elephant Copper Deposit
Stray Elephant Gold Prospects
Sections 31, 32, 33, T4N, R20W
Sections 4, 5, 6, T3N, R20W
La Paz County, Arizona

Mining Lease

\$50,000 down

\$3,000 per month advance royalty OR

4% NSR production royalty, whichever is greater

\$50,000 minimum annual work expenditure, to include drilling

Environmental and reclamation guarantees

Condemnation drilling of pads, facilities in the gold target areas

2 mile area of interest (excluding other existing claims)

30 day notice of lease relinquishment

Payments to be made to: Stray Elephant Claim Owners
Account No. 642-12128
First Interstate Bank of Arizona
Campbell Plaza Office
P.O. Box 40700
Tucson, AZ 85717

87-6287

STATE OF AZCOUNTY OF LA PAZ

Witness my hand and Official Seal.

Indexed

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RECORDED IN OFFICIAL RECORDS
OF LA PAZ COUNTY, ARIZONA

DEC 17 4 17 PM '87

Lois K. Hesse, COUNTY RECORDER

INDEXED

RE	5	+
CO. SUP	4	+
ST. SUP	5	+
P. II	5	+
TOWNSHIP	14	+
PAGES	1-4	+

REQUESTED BY AND

When recorded, mail to: Walter E. Heinrichs, P.O. Box 5964, Tucson AZ 85703-0964

AFFIDAVIT OF PERFORMANCE OF ANNUAL WORK

(Mining Claim)

 State of ARIZONA)
 County of PIMA) ss.

AMC # 105414-105471; 186704-186723

I, Walter E. Heinrichs

NAME

810 West Grant Rd.

ADDRESS

Tucson, Arizona 85705

CITY

STATE

ZIP

being first duly sworn according to law, depose and say that I am a citizen of the United States, more than eighteen years of age, and that all of the facts set forth in this affidavit are true and correct according to the best of my knowledge, information and belief:

- That I am personally acquainted with the mining claim named SE Nos. 1-52, 57-62, 101-120, AMC Nos. 105414-105471, 186704-186723, situated in the Middle Camp-Oro Fino Mining District, La Paz County, Arizona, the location of which is recorded in the office of the County Recorder of said County in Book 1168 & 1303, Page(s) 643-758 & 729-770. Notice of location is posted in Section 31 & 32, Township 4 N, Range 20 W and Section 4, 5 & 6, T3N, R20 W, Gila & Salt River Base and Meridian;
- That between the dates of September 1, 1986 and September 1, 1987 at least Seven Thousand Eight Hundred Dollars (\$ 7,800.00) dollars worth of work and improvements were done and performed upon this claim not including location work;
- That the work and improvements were made by and at the expense of Walter E. Heinrichs, William C. Hirt, James D. Loghry and Richard J. Lundin, owner(s) of the mine for the purpose of complying with the laws of the United States pertaining to assessments or annual work;
- That the following individuals were employed to perform the work and improvements alleged herein: Walter E. Heinrichs, Jr., William C. Hirt, James D. Loghry, Richard J. Lundin and others qualified by education and experience to perform the work.
- The work and improvements performed were Geological, Geochemical and geophysical surveys as described in the attached report

Dated

12/15/87

SIGNATURE

SUBSCRIBED AND SWORN TO before me, a Notary Public, this 15 day of December 19 87, by Walter E. HeinrichsMY COMMISSION EXPIRES My Commission Expires May 31, 1991

NOTARY PUBLIC



ANNUAL LABOR REPORT
of
GEOLOGICAL, GEOPHYSICAL AND GEOCHEMICAL WORK
SE CLAIM GROUP LA PAZ COUNTY, ARIZONA

AUGUST 1987

Introduction

This detailed report represents the basic findings of geological, geophysical and geochemical work which was conducted on the SE Calim Group to fulfill annual labor requirements for the period September 1986 thru August 1987. The work was carried out by Walter E. Heinrichs, Jr., a graduate geological engineer - geophysicist with 45 years experience who is a registered in Arizona by the State Board of Technical Registration #2447. Mr. Heinrichs was assisted by James D. Loghry, William C. Hirt and Richard J. Lundin, all graduates in geology and/or metallurgy and headquartered at 810 West Grant Road, Tucson, Arizona 85705.

Geochemistry

Rock samples, either outcrop, soil or dump, were taken. Samples weighed about five pounds and were taken on a representative grab basis or from random rock chips of outcropping bedrock.

Samples were analyzed for Au, Ag, Cu, Pb, Zn, and, in some cases for As, Hg, Sb, and Mo. Objective was to learn more about the nature of the obviously visible surface mineralization present.

In addition it was desired to observe if any particular metalliferous mineral correlation could be made with electrical geophysical work done on the claims.

Geology

Geology was also observed and mapped in relation to the geophysical and geochem sample sites and efforts were made to be able to roughly correlate surface exposures to sample results, and any geophysical anomalism.

Geophysics

One east west line of combination variable frequency induced polarization resistivity and self potential geophysics was run as shown on the accompanying map. Dipole spacing was 200 feet and frequencies were 3.0 Hz and 0.3 Hz. Equipment was GEOEX general purpose, multiple frequency Mark 5-7 Sender, GEOEX Mark 7 Briggs - GE power unit and GEOEX Mark 4-C IP, resistivity and SP receiver. The colinear dipole-dipole array was used with foil and copper clad current electrodes.

Conclusions

Results indicate some correlation between surface geology and geochemical data. However, definite correlation with the geophysical results was not established.

Nevertheless, it is suggested that mineralization is strong enough and exposures extensive enough to warrant detailed surface mapping at a scale of something ranging from 100 ft. per inch to 500 ft. per inch. Geochemical results are also anomalous enough to suggest that more systematic and detailed

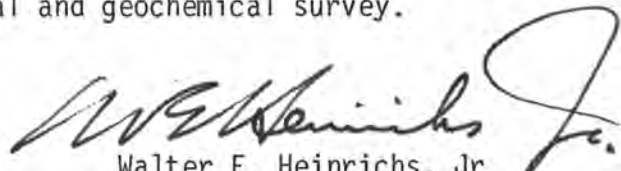
geochemical sampling coverage, designed to completely cover the whole claim group, may be in order. This could be accomplished effectively in concurrent conjunction with geologic mapping and, if results are sufficiently favorable will form an adequate basis for preliminary targeting of subsequent drilling and/or backhoe sampling etc.

Further investigation of the rock type and structural associations with precious metal mineralization is definitely in order as there is some suggestion in the results that such mineralization is present and may be localized in economic fashion within the claim group.

Accompanying Data

Attached illustration shows geochemical sample sites and geophysical line with claim boundaries and discovery points of each claim.

Attached plot, together with this report, represent the basic findings of the geological, geophysical and geochemical survey.


Walter E. Heinrichs, Jr.
Geological Engineer - Geophysicist
P.E. & C.P.G.S.



P. O. Box 5964
Tucson, AZ 85703
(602)623-0578
15 December 1987

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Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

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↑(Extra charge)↑ ↑(Extra charge)↑

3. Article Addressed to:

La Paz County Recorder
La Paz County Courthouse
Parker, AZ 85344

4. Article Number

P-567-578-504

Type of Service:

- ☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail

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5. Signature - Addressee

X

6. Signature - Agent

X

7. Date of Delivery

12-17-87



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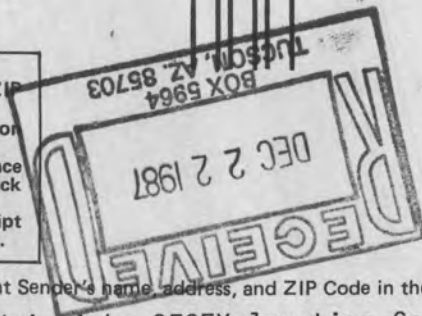


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Heinrichs GEOEXploration Co.

P. O. Box 5964

Tucson, AZ 85703



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USE, \$300

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RETAIN THE ATTACHED PHOTOCOPY AS IT IS YOUR OFFICIAL ACKNOWLEDGEMENT OF RECEIPT

In an effort to expedite the acknowledgement procedure, we have time-stamped and photocopied what was submitted to this office. This DOES NOT mean it has been reviewed or processed, only that it was received.

As a reminder, if you have elected to file a notice of intention to hold, do not forget to record such notices of intention to hold for lode and placer claims (not mill or tunnel sites) and all affidavits of labor, amendments and transfers of ownership with the proper county recorder.

In the future, always include the A MC serial numbers assigned to each of your claims when filing affidavits and other documents. For large groups of mining claims, it would help us a great deal to process them into the computer terminal if you would list them in serial number order consecutively. Also, please keep us advised as to your current mailing address.

Bureau of Land Management
Arizona State Office
Mining Claims Section
Siete Square
3707 North 7th St.
Phoenix, Arizona 85014
Phone: (602) 241-5550



Mailing Address:
Mining Claims Section
P.O. Box 16563
Phoenix, Arizona 85011

STATE OF
COUNTY OF
Witness my hand and Official Seal.
Indexed Paged Blotted

I hereby certify that the within instrument was
filed for record in _____ County,
State of _____

No. _____
Book _____ Page _____
Date: _____
Request of _____

County Recorder
By _____ Deputy _____ Fee: _____

When recorded, mail to: Walter E. Heinrichs, P.O. Box 5964, Tucson AZ 85703-0964

AFFIDAVIT OF PERFORMANCE OF ANNUAL WORK (Mining Claim)

State of ARIZONA)
County of PIMA) ss.

AMC # 105414-105471; 186704-186723

RECEIVED
B.L.M. AZ STATE OFFICE

DEC 17 1987

7:45 A.M.

PHOENIX, ARIZONA

I, Walter E. Heinrichs

NAME

P10 West Grant Rd.

ADDRESS

Tucson, Arizona 85705

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Dated

12/15/87

Walter E. Heinrichs
SIGNATURE

SUBSCRIBED AND SWORN TO before me, a Notary Public, this 15 day of December

in 57 by Walter E. Heinrichs

MY COMMISSION EXPIRES My Commission Expires May 31, 1991

NOTARY PUBLIC

ANNUAL LABOR REPORT
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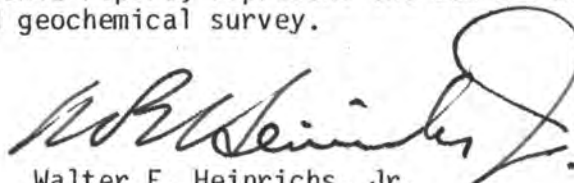
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15 December 1987



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7:45 A.M.
PHOENIX, ARIZONA

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IP LINE-1

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33	34	35	36	37	38	39	40	41	42	2	13
43	44	45	46	47	48	49	50	51	52	3	14 32
										4	15
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										6	17
										7	18
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										10	21
										11	22
										101	102
										103	104
										105	106
										107	108
										109	110
										111	112
										113	114
										115	116
										117	118
										119	120

320,000 FEET

'45

'44

114°22'30"

R 21 W. "2 570 000 FEET (CALIF.)"

LOGICAL SURVEY WASHINGTON, D.C. 1956-NS
M R-3800

RECEIVED
B.L.M. AZ STATE OFFICE

DEC 17 1987

7:45 A.M.
PHOENIX, ARIZONA

SE PROPERTY
La Paz County, Arizona

The property is comprised of 78 lode mining claims.

Base map from USGS La Paz Mtn and Middle
Camp Mtn. 7 1/2 min quadrants

2,000 4,000 5,000
Scale (feet)



TO

Arizona Office
Bureau of Land Management
Mining Claims Section
P. O. Box 16563
Phoenix ~~MMMM~~, AZ 85011

F
R
O
M

Heinrichs GEOEXploration Co.
P. O. Box 5964
Tucson, AZ 85703-0964

SUBJECT AMC #105414-105471; 186704-186723

DATE 12 / 15 / 87

MESSAGE As required evidence of assessment work done and pursuant to
The federal Land Policy and Management act of 1976, enclosed is a
machine copy of recorded affidavit concerning SE-1-52,57-62, 101-120
located in Middle Camp-Oro Fino Mining District, La Paz County, Arizona.

In order for us to be assured that these documents fulfill the
requirements of the current Federal regulations and law, as prima face
evidence of the assissment work done, your written acknowledgement
receipt or exceptions to same are respectfully requested to the
above address.

Enclosure as listed.

M. Jean Heinrichs
SIGNED M. Jean Heinrichs

REPLY

*Your 1987 assessment work has been
processed.*

RECEIVED

B.L.M. AZ STATE OFFICE

DEC 17 1987

7:45 A.M.

PHOENIX, ARIZONA

ENTERED IN COMPUTER

12/29/87

Courtney Davidson
Mining Claims Section

SIGNED

DATE / /

P-567 578 504
RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

U.S.G.P.O. 153-506

Sent to

La Paz County Recorder

Street and No.

La Paz County Courthouse

P.O. State and ZIP Code

Parker, AZ 85344

Postage

\$ 3.9

Certified Fee

1.75

Special Delivery Fee

Restricted Delivery Fee

Return Receipt showing
to whom and Date Delivered

Return Receipt showing to whom,
Date, and Address of Delivery

1.70

TOTAL Postage and Fees

\$ 7.84

Postmark or Date

December 15, 1987

PS Form 3800, June 1985

**STICK POSTAGE STAMPS TO ARTICLE TO COVER FIRST CLASS POSTAGE,
CERTIFIED MAIL FEE, AND CHARGES FOR ANY SELECTED OPTIONAL SERVICES. (see front)**

1. If you want this receipt postmarked, stick the gummed stub to the right of the return address leaving the receipt attached and present the article at a post office service window or hand it to your rural carrier. (no extra charge)
2. If you do not want this receipt postmarked, stick the gummed stub to the right of the return address of the article, date, detach and retain the receipt, and mail the article.
3. If you want a return receipt, write the certified mail number and your name and address on a return receipt card, Form 3811, and attach it to the front of the article by means of the gummed ends if space permits. Otherwise, affix to back of article. **Endorse front of article RETURN RECEIPT REQUESTED** adjacent to the number.
4. If you want delivery restricted to the addressee, or to an authorized agent of the addressee, endorse **RESTRICTED DELIVERY** on the front of the article.
5. Enter fees for the services requested in the appropriate spaces on the front of this receipt. If return receipt is requested, check the applicable blocks in item 1 of Form 3811.
6. Save this receipt and present it if you make inquiry.

TO

Arizona Office
Bureau of Land Management
Mining Claims Section
P. O. Box 16563
Phoenix, AZ 85011

F Heinrichs GEOEXploration Co.
R P. O. Box 5964
O Tucson, AZ 85703-0964
M

↓ SUBJECT AMC #105414-105471; 186704-186723

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Enclosure as listed.

SIGNED M. Jean Heinrichs

REPLY

SIGNED

DATE / /

GEOEXGEOPHYSICAL ENGINEERS
TUCSON, ARIZONA**HEINRICHS GEOEXPLORATION COMPANY**

808 WEST GRANT ROAD PH. 623-0578

MAILING ADDRESS: P.O. BOX 5964

TUCSON, ARIZONA 85703

CABLE: GEOEX, TUCSON

NION BANK
TUCSON, ARIZONA

No 11825

91-101
1221

December 15 19 87

PAY
TO THE ORDER
OF

DOLLARS \$ 14.00

Paz County Recorder
Parker, AZ 85344

HEINRICHS GEOEXPLORATION COMPANY

NON - NEGOTIABLE

⑈011825⑈ ⑆122101010⑆ 3048946⑈

HEINRICHS GEOEXPLORATION COMPANY

DATE	INVOICE NO.	DESCRIPTION	AMOUNT	DISC. OR DEDUC.	NET AMOUNT
		Record & return Affidavit of Labor 1987 SE Claims 1-52, 57-62, 101-120 4 pages	\$14.00		

TO
La Paz County Recorder
La Paz County Courthouse
Parker, AZ 85344

F Heinrichs GEOEXploration Co.
Rt. 0. Box 5964
Tucson, AZ 85703
M

↓ SUBJECT Affidavit of Labor - Record & Return

DATE 12 / 15 / 87

MESSAGE Enclosed find our check in the amount of \$14.00 and Affidavit of Labor performed on SE Claim Group Nos. 1-52-, 57-62, 101-120 located in Middle Camp-Oro Fino Mining District, La Paz County, AZ. (four pages)

Our self addressed envelope is enclosed.

SIGNED

M. Jean Heinrichs
M. Jean Heinrichs

REPLY

SIGNED

DATE / /

SEND PARTS 1 AND 3 WITH CARBON INTACT -
PART 3 WILL BE RETURNED WITH REPLY.

POLY PAK (50 SETS) 4P472

DETACH AND FILE FOR FOLLOW-UP

STATE OF _____ }
COUNTY OF _____ } ss.
Witness my hand and Official Seal.
Indexed _____ Paged _____ Blotted _____

I hereby certify that the within instrument was
filed for record in _____ County,
State of _____

No. _____
Book _____ Page _____
Date: _____
Request of: _____

County Recorder
By _____ Deputy _____ Fee _____

When recorded, mail to: Walter E. Heinrichs, P.O. Box 5964, Tucson AZ 85703-0964

AFFIDAVIT OF PERFORMANCE OF ANNUAL WORK (Mining Claim)

State of ARIZONA)
County of PIMA) ss.

AMC # 105414-105471; 186704-186723

Walter E. Heinrichs

NAME

810 West Grant Rd.

ADDRESS

Tucson, Arizona 85705

CITY

STATE

ZIP

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5. The work and improvements performed were Geological, Geochemical and geophysical surveys as described in the attached report.

Dated: 12/15/87

Walter E. Heinrichs
SIGNATURE

SUBSCRIBED AND SWORN TO before me, a Notary Public, this 15 day of December

19 87 by Walter E. Heinrichs

MY COMMISSION EXPIRES

My Commission Expires May 31, 1991

[Signature]
NOTARY PUBLIC

ANNUAL LABOR REPORT
of
GEOLOGICAL, GEOPHYSICAL AND GEOCHEMICAL WORK
SE CLAIM GROUP LA PAZ COUNTY, ARIZONA
AUGUST 1987

Introduction

This detailed report represents the basic findings of geological, geophysical and geochemical work which was conducted on the SE Calim Group to fulfill annual labor requirements for the period September 1986 thru August 1987. The work was carried out by Walter E. Heinrichs, Jr., a graduate geological engineer - geophysicist with 45 years experience who is a registered in Arizona by the State Board of Technical Registration #2447. Mr. Heinrichs was assisted by James D. Loghry, William C. Hirt and Richard J. Lundin, all graduates in geology and/or metallurgy and headquartered at 810 West Grant Road, Tucson, Arizona 85705.

Geochemistry

Rock samples, either outcrop, soil or dump, were taken. Samples weighed about five pounds and were taken on a representative grab basis or from random rock chips of outcropping bedrock.

Samples were analyzed for Au, Ag, Cu, Pb, Zn, and, in some cases for As, Hg, Sb, and Mo. Objective was to learn more about the nature of the obviously visible surface mineralization present.

In addition it was desired to observe if any particular metalliferous mineral correlation could be made with electrical geophysical work done on the claims.

Geology

Geology was also observed and mapped in relation to the geophysical and geochem sample sites and efforts were made to be able to roughly correlate surface exposures to sample results, and any geophysical anomalism.

Geophysics

One east west line of combination variable frequency induced polarization resistivity and self potential geophysics was run as shown on the accompanying map. Dipole spacing was 200 feet and frequencies were 3.0 Hz and 0.3 Hz. Equipment was GEOEX general purpose, multiple frequency Mark 5-7 Sender, GEOEX Mark 7 Briggs - GE power unit and GEOEX Mark 4-C IP, resistivity and SP receiver. The colinear dipole-dipole array was used with foil and copper clad current electrodes.

Conclusions

Results indicate some correlation between surface geology and geochemical data. However, definite correlation with the geophysical results was not established.

Nevertheless, it is suggested that mineralization is strong enough and exposures extensive enough to warrant detailed surface mapping at a scale of something ranging from 100 ft. per inch to 500 ft. per inch. Geochemical results are also anomalous enough to suggest that more systematic and detailed

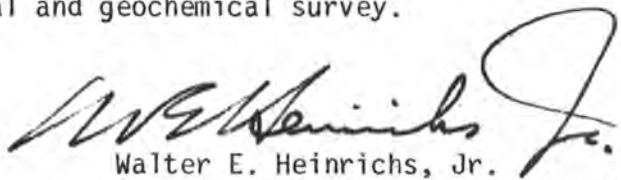
geochemical sampling coverage, designed to completely cover the whole claim group, may be in order. This could be accomplished effectively in concurrent conjunction with geologic mapping and, if results are sufficiently favorable will form an adequate basis for preliminary targeting of subsequent drilling and/or backhoe sampling etc.

Further investigation of the rock type and structural associations with precious metal mineralization is definitely in order as there is some suggestion in the results that such mineralization is present and may be localized in economic fashion within the claim group.

Accompanying Data

Attached illustration shows geochemical sample sites and geophysical line with claim boundaries and discovery points of each claim.

Attached plot, together with this report, represent the basic findings of the geological, geophysical and geochemical survey.



Walter E. Heinrichs, Jr.
Geological Engineer - Geophysicist
P.E. & C.P.G.S.



P. O. Box 5964
Tucson, AZ 85703
(602)623-0578
15 December 1987

STATE OF _____ } ss. I hereby certify that the within instrument was No. _____
COUNTY OF _____ } filed for record in _____ County. Book _____ Page _____
Witness my hand and Official Seal. State of _____ Date _____
Indexed _____ Paged _____ Blotted _____ Request of _____
County Recorder
By _____ Deputy _____ Fee: _____

When recorded, mail to: Walter E. Heinrichs, P.O. Box 5964, Tucson AZ 85703-0964

AFFIDAVIT OF PERFORMANCE OF ANNUAL WORK (Mining Claim)

State of ARIZONA)
County of PIMA) ss. AMC # 105414-105471; 186704-186723

I, Walter E. Heinrichs

NAME

810 West Grant Rd.

ADDRESS

Tucson, Arizona 85705

CITY

STATE

ZIP

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5. The work and improvements performed were Geological, Geochemical and geophysical surveys as described in the attached report

Dated _____

SIGNATURE

SUBSCRIBED AND SWORN TO before me, a Notary Public, this _____ day of _____, 19____, by _____

MY COMMISSION EXPIRES _____

NOTARY PUBLIC

STATE OF _____ } ss. I hereby certify that the within instrument was No. _____
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Indexed Paged Blotted _____ Request of _____
County Recorder _____
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Deputy

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Dated

12/15/87

SIGNATURE

Walter E. Heinrichs

SUBSCRIBED AND SWORN TO before me, a Notary Public, this 15 day of December 19 87, by Walter E. Heinrichs

MY COMMISSION EXPIRES My Commission Expires May 31, 1991

NOTARY PUBLIC

[Signature]

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COUNTY OF _____ } ss.
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State of _____

No. _____
Book _____ Page _____
Date _____
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County Recorder

By _____
Deputy

Fee _____

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STATE OF
COUNTY OF
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NOTARY PUBLIC

ANNUAL LABOR REPORT
of
GEOLOGICAL, GEOPHYSICAL AND GEOCHEMICAL WORK
SE CLAIM GROUP LA PAZ COUNTY, ARIZONA
AUGUST 1987

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In addition it was desired to observe if any particular metalliferous mineral correlation could be made with electrical geophysical work done on the claims.

Geology

Geology was also observed and mapped in relation to the geophysical and geochem sample sites and efforts were made to be able to roughly correlate surface exposures to sample results, and any geophysical anomalism.

Geophysics

One east west line of combination variable frequency induced polarization resistivity and self potential geophysics was run as shown on the accompanying map. Dipole spacing was 200 feet and frequencies were 3.0 Hz and 0.3 Hz. Equipment was GEOEX general purpose, multiple frequency Mark 5-7 Sender, GEOEX Mark 7 Briggs - GE power unit and GEOEX Mark 4-C IP, resistivity and SP receiver. The colinear dipole-dipole array was used with foil and copper clad current electrodes.

Conclusions

Results indicate some correlation between surface geology and geochemical data. However, definite correlation with the geophysical results was not established.

Nevertheless, it is suggested that mineralization is strong enough and exposures extensive enough to warrant detailed surface mapping at a scale of something ranging from 100 ft. per inch to 500 ft. per inch. Geochemical results are also anomalous enough to suggest that more systematic and detailed

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ANNUAL LABOR REPORT
GEOLOGICAL, GEOPHYSICAL AND GEOCHEMICAL WORK
SE CLAIM GROUP, LA PAZ COUNTY, ARIZONA
AUGUST 1987

Introduction

This detailed report represents the basic findings of geological, geophysical and geochemical work which was conducted on the SE Calim Group to fulfill annual labor requirements for the period September 1986 thru August 1987. The work was carried out by Walter E. Heinrichs, Jr., a graduate geological engineer - geophysicist with 45 years experience who is a registered in Arizona by the State Board of Technical Registration #2447. Mr. Heinrichs was assisted by James D. Loghry, William C. Hirt and Richard J. Lundin, all graduates in geology and/or metallurgy and headquartered at 810 West Grant Road, Tucson, Arizona 85705.

Geochemistry

Rock samples, either outcrop, soil or dump, were taken. Samples weighed about five pounds and were taken on a representative grab basis or from random rock chips of outcropping bedrock.

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geochemical sampling coverage, designed to completely cover the whole claim group, may be in order. This could be accomplished effectively in concurrent conjunction with geologic mapping and, if results are sufficiently favorable will form an adequate basis for preliminary targeting of subsequent drilling and/or backhoe sampling etc.

Further investigation of the rock type and structural associations with precious metal mineralization is definitely in order as there is some suggestion in the results that such mineralization is present, and may be localized in economic fashion within the claim group.

Accompanying Data

Attached illustration shows geochemical sample sites and geophysical line with claim boundaries and discovery points of each claim.

Attached plot, together with this report, represent the basic findings of the geological, geophysical and geochemical survey.

Walter E. Heinrichs, Jr.
Geological Engineer - Geophysicist
P.E. & C.P.G.S.

P. O. Box 5964
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(602)623-0578
15 December 1987

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15 December 1987

U

AFFIDAVIT OF ANNUAL ASSESSMENT LABOR
(Geological, Geochemical and Geophysical
work on a group of lode mining claims)

STATE OF ARIZONA

COUNTY OF YUMA La Paz

James D. Loghry

Before me personally appeared WILLIAM C. HIRT, a U.S. citizen over 18 years of age whose address is 810 West Grant Road, Tucson, AZ 85705 who, being first duly sworn, stated at least \$5800 ~~5800~~ 57300.00 worth of geological, geochemical, and/or geophysical work was done upon or for the benefit of all of the following described contiguous group of lode mining claims:

<u>Name of claim(s)</u>	<u>Recorded in Book/page(s)</u>	<u>BLM Serial Number</u>
SE 1-52, 57-62	1168/643-758	AMC 105414-105471
SE 101-120	1303/729-770	" 186704-186723

T. 34N, R. 20E21W (La Paz Mtns Middle Camp Mtn Quads) in
situated in the Middle Camp- Mining District of La Paz County,
State of Arizona Oro Fino and that he is personally acquainted with these claims.

Such expenditure was made by, for or at the expense of Heinrichs Associates GEOEXploration Company. Attached to this Affidavit is a copy of the Report of such work, as required by Title 30, United States Code, Section 28-1.

The foregoing work was performed and is intended to hold the above described mining claims during the annual assessment period ending at noon, Sept. 1, 1987.

Signature of Affiant: *William C. Hirt*

State of Arizona)

) ss

County of Pima)

Subscribed and sworn to before me this 11th day of October 1987.

Jim H. Jones
Notary Public

My commission expires 11-11-88

ANNUAL LABOR REPORT
Geophysical of
GEOLOGICAL AND GEOCHEMICAL WORK
~~SE~~ CLAIM GROUP ~~MOHAVE~~ COUNTY, ARIZONA
AUGUST 1985

Introduction

This detailed report presents the basic findings of a ~~preliminary~~ *geophysical* geological and geochemical ~~survey~~ *works* which was conducted on the ~~SE~~ claim group to fulfill annual labor requirements for the period September 1984 thru August 1985. The work was carried out by Walter E. Heinrichs Jr., a graduate geological engineer - geophysicist with 45 years experience who is registered in Arizona by the State Board of Technical Registration #2447. Mr. Heinrichs was assisted by ~~James D. Delaney, William C. Hart, and~~ *Richard J. Lundin,* office is located at 810 West Grant Road, Tucson, Arizona 85705. *all graduates in geology for metallurgy and head quarters*

Geochemistry

Soil
Rock samples, either outcrop or dump, were taken, ~~as available, and purposely in a somewhat random pattern.~~ Samples weighed about five pounds and were taken on a representative grab basis or from random rock chips of outcropping bedrock.

Start
~~all~~ Samples were analyzed for Au, Ag, Cu, Pb, Zn, and, in some cases for As, Hg, Sb, and Mo. Objective was to learn more about the nature of the obviously visible surface ~~and dump~~ mineralization present, ~~as to whether the mineralization was exclusively vein type or, whether possibilities also existed for significant disseminated mineralization and perhaps massive sulfide type mineralization as well.~~

done
In addition it was desired to observe if any particular metalliferous mineral correlation could be made with ~~the~~ electrical geophysical ~~anomalism~~ *WORK* previously established on the claims.

Geology

be able to *geophysical and*
Geology was also observed and mapped in relation to the geochem sample sites and efforts were made to roughly correlate surface exposures to sample results, and ~~the~~ *any* geophysical anomalism.

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suggested
Nevertheless, it is ~~indicated~~ *suggested* that mineralization is strong enough and exposures extensive enough to warrant ~~surface~~ *detected* surface mapping at a scale of something ranging from 100 ft. per inch to 500 ft. per inch. Geochemical results are also anomalous enough to suggest that more systematic and detailed geochemical sampling coverage, designed to completely cover the whole claim group, may be in order. This ~~could~~ *could* be accomplished effectively in concurrent conjunction with geologic mapping and, if results are sufficiently favorable will form an adequate basis for preliminary targeting of drilling

Subsequent

Geophysics insert see next page.

other 11/12 PAGE 4527

and/or backhoe sampling etc.

Further investigation of the rock type and structural associations with precious metal mineralization is definitely in order as there is some suggestion in the results that such mineralization may not be exclusively ~~is present~~ vein related. In addition, ~~any economic significance of the lack of correlation between surface exposures and the southern portion of the I.P. and anomaly needs to be further evaluated.~~ *may be localized in economic fashion within the claim group.*
Accompanying Data

Attached ~~seven~~ *sample* illustrations show geochemical sites in conjunction with claim boundaries and discovery points of each claim. ~~for Au, Ag, Cu, Nb, AZ, Hg, and As. Mo and Sb were not plotted because results at this point were not particularly definitive. Should further geochem work be done, these data should and would also be plotted.~~ *and geophysical line*

Attached plots, together with this report, represent the basic findings of the geochemical survey.

geological, geophysical &

W.E. Heinrichs, Jr.

Walter E. Heinrichs, Jr.
Geological Engineer - Geophysicist
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W.E. Heinrichs, Jr.
86



Insert above

Geophysics

variable frequency

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January 15, 1989; Revised September 12, 1989

James D. Loghry
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2121 E. Monte Vista Dr.
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(602) 323-2945

Walter E. Heinrichs
Heinrichs GEOXploration
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Stray Elephant Copper Deposit
La Paz County, AZ

Location and Ownership

The Stray Elephant copper deposit lies within the west block of the SE Claim group, the SE 23-52, and SE 57-62 claims, AMC Nos. 105436 - 105471, a block of 36 contiguous claims largely in Section 31, T4N, R20W, and Section 6, T3N, R20W (see enclosed maps). The claims are in the Middle Camp - Oro Fino mining district in the south Dome Rock Mountains, La Paz County, Arizona, along and south of Interstate 10, 7 - 8 miles west of Quartzsite, Arizona and about 13 miles east of Blythe, California (USGS Middle Camp Mountain 7.5' Quadrangle).

The property offers easy access, nearby electric power and natural gas. Water supply would come from wells to be drilled on the property or from a well to be drilled or leased in the Colorado River valley about 5 miles westerly. There appears to be a light power line 0.7 miles north of Outcrop Hill along I-10 but the closest heavy duty power is about 3 miles west and a big water well is at the Beacon service station and Ryder factory at Tom Wells Road 4.6 miles away, west of the property.

The claim owners, each owning an equal undivided 25% interest in the SE Claims are:

- 1) Heinrichs GEOEXploration Company, an Arizona Corporation, Walter E. Heinrichs, President, located at 810 West Grant Rd., Tucson, Arizona 85705; mailing address P.O. Box 5964, Tucson, Arizona 85703-0964, which addresses shall serve as the claimowners' address;
- 2) William C. Hirt, a single man, residing at 639 South 500 East, Salt Lake City, Utah 84102;
- 3) James D. Loghry and Margaret R. Loghry, husband and wife, residing at 2121 East Monte Vista Dr., Tucson, Arizona 85719;
- 4) Richard J. Lundin and Vicki J. Lundin, husband and wife, residing at 372 Hackberry Circle, Prescott, Arizona 86303.

Property History

The property was originally located in 1906 by Miguel Apodoes (spell?), later by Beggs and McIntyre who did shallow surface exploration and drove an adit and winze in the 1920's when the property was known as the Weaver mine. After the death of Beggs, Ben Scott located the property and it came to be called the Scott-Weaver mine.

Royal Investment Company - 1956

Royal Investment Corporation optioned the property from Scott and explored it in 1956 under the direction of E. Ross Householder, a well-known Kingman mining engineer. Royal dug and sampled numerous trenches, sampled ore grade material in the adit and winze, made at least two carload smelter shipments of oxide copper ore and drilled 4 vertical diamond drill holes. Householder (9/29/56, 12/19/56) reported: 21 bulk samples taken from trenches, underground workings and outcrops that averaged 1.85% Cu; two car loads, 104 tons, that averaged 1.1% and 2.1% Cu; DDH No. 1, 0-101 feet, 24 feet lost, 77 feet average 1.02% Cu; DDH No. 2, 0-130 feet average 1.15% Cu; DDH No. 3, drilled a short distance north of the copper deposit was assayed to 102 feet, has three composite sample assays ranging from trace to 0.2% Cu; DDH No. 4, 0-156 feet average 1.4% Cu, bottomed in 3.7% Cu. When assayed, gold and silver values in the deposit were found ranging from 0.002 - 0.02 OPT Au and 0.1 - 1.2 OPT Ag. The highest grade surface sample taken from the #1 (drill hole?) access road assayed 3.41% Cu, 0.02 opt Au and 1.2 opt Ag. Householder reported that the copper deposit is over 3900 feet long. From the above sampling program Householder assumed an average grade of 1.58% Cu for the entire deposit and 375,000 tons of positive and probable ore, 720,000 tons of possible ore plus 2,500,000 tons of expectant ore, totalling 3,595,000 tons. He recommended more core drilling which he believed would double those reserves. The recommended drilling was never accomplished.

Kerr McGee/Hancock Oil - 1960 - 1975

The property was further explored and developed by Hancock Oil Company in the 1960's. Burton Hancock apparently purchased the property from Ben Scott, continued surface exploration work and drilled one rotary hole S-1 in the wash beyond the east outcrop of the copper deposit, results unknown. He surveyed 9, perhaps 13 claims for patent, but died before completing the patent process. Kerr McGee staked most of the district and leased the Hancock property in 1973-75, as part of a large porphyry copper exploration project, drilling 6 diamond drill holes, Q-1 - Q-6. Q-1 is a vertical hole within the deposit which cut 190 feet of ore grade copper, the upper 110 feet being oxide copper ore. Q-3 is a vertical hole on the north boundary of the deposit which found chalcopyrite ore. The others are outside of the Stray Elephant copper deposit, Q-6 being an angle hole directed under

the deposit. Near the Q-6 collar, Q-2 is a vertical hole north of the deposit. Q-4 is an angle hole drilled on the presumed buried east extension of the deposit that missed the deposit. Q-5 is an angle hole that never reached the deposit. Kerr McGee personnel felt that the potential of the Stray Elephant copper deposit as known at the time was 15,000,000 to 20,000,000 tons of ore-grade copper mineralization at or near the surface in Hancock Wash. They thought that the deposit might be part of a much larger concealed porphyry copper ore body, so most of their holes were drilled outside and beneath the deposit, in an effort to expand it or discover its possible buried extensions. Vertical DDH Q-1 was drilled on a pad within an open cut in the deposit on the north side of Outcrop Hill, cut 0-110 feet of 0.52% Cu as the copper oxides chrysocolla and lesser malachite and brochantite and 110-190 feet of 0.82% Cu as chalcopryrite, a combined 190 feet of 0.65% Cu; also at 410-440 feet, 30 feet of 0.86% Cu as chalcopryrite. Vertical DDH Q-3, immediately north of the oxide copper deposit, found about 203 feet of quartz monzonite containing 0.43% Cu as chalcopryrite at 190-400 feet. Adjacent holes DDH H-2 and Cyprus RDH SE-3 were in oxide copper ore.

The property came open after Burton Hancock's death and the present owners staked the SE Claims in 1980 and 1982.

Amoco Minerals - 1983

In 1983, Amoco Minerals optioned the SE Claims, did a limited amount of geologic mapping and geochemical sampling and on August 22, 1983, drilled one 150 foot diamond drill hole (SE-1) in the silicified zone a short distance north of the alluvium-buried contact of the Stray Elephant copper deposit solely to fulfill assessment work requirements. They seemed to have selected a convenient site that required no cat work and made no attempt to drill the copper ore on Outcrop Hill. From 10 - 150 feet, the hole averaged 47 ppm Cu, 0.2 ppm Au and 1 ppm Ag. Because of its location, this hole has no bearing on the ore potential of the SE copper deposit. In November, 1983, Fuller, under the direction of F. Mack of Amoco collected 18 rock chip samples (F 2633 - F 2650), 11 of them (F 2637 - F 2647, range 485 - >10,000 ppm Cu, average >3663 ppm Cu) from leached outcrops in the copper deposit of Outcrop Hill (see 1" = 200' topographic map). Using a cutoff of 0.2% Cu, which excludes four samples, seven samples ranged from 2800 to >10,000 ppm Cu, averaging 5343 ppm or 0.53% Cu. Amoco dropped the lease abruptly in January, 1984 when budget cuts demolished their hardrock exploration program and dismembered their minerals exploration department.

Cyprus Metals Company - 1988

In November, 1987, Dr. William Rehrig, President of Applied Geologic Studies, Inc. (AGS), a Denver consulting firm, examined the Stray Elephant copper deposit for client Cyprus Metals Company. At that time, Cyprus was looking for copper oxide deposits with a potential greater than 5,000,000 tons @ 0.5% Cu,

or 50,000,000 pounds of copper. Cyprus felt that they could make a substantial fast profit from heap leaching and using portable SX-EW plants on such deposits. At that time Cyprus management agreed with Dr. Rehrig that the Stray Elephant met their requirements and optioned the property February 23, 1988. The prospect was assigned to the engineers of Cyprus Metals Development, Green Valley, Arizona, who were engaged in examining mines and buying ore reserves and plants. They were not interested in exploring the Stray Elephant or any pre-development property no matter how appealing and tried to skuttle the project. James Compton, President of Cyprus Metals insisted that they follow through with a drilling program and in May, 1988, they reluctantly ordered AGS to start work on the property with no advance preparation, limited time and a very small budget.

Dr. Rehrig assigned consulting geologist Dr. David Wahl to the project. Wahl did a fine job in spite of the limitations forced by Cyprus Metals Development. He examined the property for the first time with ~~Lohry~~ and Rehrig on a hot May 4th. Within two weeks he collected surface samples and prepared a map of the west half of the copper zone, did the necessary BLM permitting, hired contractor Hollis Ramsey of Parker to rebuild old trails and construct new trails and drill sites he had selected for a mobile reverse circulation drill rig AGS had contracted for. It turned out that the driller was not licensed to operate in Arizona and Cyprus Development would not allow AGS the time to find another reverse circulation rig, but insisted that a large truck mounted rotary drill of Ventures Drilling Company be employed immediately, even though it had limited angle hole capability and was too large to get on the critical sites on Outcrop Hill, where the largest tonnage potential appeared to be.

Wahl's 16 surface samples in the copper deposit range 0.08-1.76% total Cu, averaging 0.55% total Cu. Using a 0.2% Cu cutoff, 11 samples average 0.74% Cu. Eleven samples with acid soluble copper assays range 0.08-1.58% A.S. Cu. With a 0.2% Cu cutoff, 9 samples range 0.37-1.58 A.S. Cu and average 0.70% A.S. Cu.

From June 3 thru June 11, 1988, 8 rotary holes, SE-1 - 8, ranging from 155 to 350 feet for a total footage of 1910 feet, were drilled by the Ventures Drilling Company of Tucson under Wahl's supervision. Five were vertical holes; three were angle holes directed S80W or S120W at -57-63°. They are scattered along 2600 feet of the copper deposit, 300 to 1,130 feet apart. All but two of them cut ore grade copper oxide and sulfide mineralization. Drill hole SE-5 does not show the ore body because it passes below the ore intercepts of Kerr McGee DDH Q-1 and DDH H-1. Drill hole SE-7 is a vertical hole that cut 155 feet of well-altered and mineralized granite (quartz monzonite) and schist with anomalous copper values. ~~We~~ suspect that the ore will be found by drilling a short distance north of RDH SE-7. Geology, mineralization, total copper and acid soluble copper assays are summarized in Table 1.

A cursory inspection of Wahl's cross sections drawn on the ore holes suggest the presence of a copper zone 50 to 100 feet wide, controlled by and spreading out from two well-mineralized vein-faults dipping northerly at 60-70°. The widths are actually much greater. On Outcrop Hill, the partly exposed deposit is about 200 feet to 400 feet wide. In the east target area, outcrops on both sides of the wash suggest possible widths of 600 to 900 feet. The Cyprus angle holes appear to have penetrated a zone of cupiferous veins and veinlets 50-100 feet wide, but did not test the broader surface and near-surface copper oxide deposit that promises substantial open pit tonnage.

At the conclusion of the preliminary program, AGS personnel reported to Cyprus that the deposit has a resource of at least 5,000,000 tons of material greater than 0.5% Cu, and recommended more drilling to prove up ore reserves. Cyprus Development personnel replied that they had doubled their original tonnage and grade requirements and were not interested in any further testing of the Stray Elephant deposit. We were advised that Cyprus would be dropping the option in a letter of July 14, 1988 and the contract expired August 15, 1988.

Geology and Ore Potential

The Stray Elephant copper deposit occurs in a steep north dipping N60-70°W reverse fault zone along the contact of a strongly altered quartz monzonite porphyry stock and Jurassic metavolcanic schists and metasediments. The higher grade copper mineralization occurs in the schists, although there is ore grade mineralization in the quartz monzonite as well. Much of the deposit is concealed under the shallow alluvium of Hancock Wash, but outcrops of strong oxide copper mineralization and associated silicification and argillization can be observed over a length of more than 4200 feet. Refer to B. Leedy's 1" = 1000' geologic map for an independent survey.

The prospect area to be explored is over a mile long. Only a small amount of copper mineralization has been found west of the Stray Elephant property on the State-owned east half of Section 36 and we believe it has little potential for ore deposits. A middle block of prospective ground 1,100 feet long, completely covered by the sand and gravel of Hancock Wash has been prospected by only two drill holes, DDH Q-4 and RDH SE-7. I am certain that there is a substantial tonnage of oxide copper ore concealed in the middle block. To the east the copper zone is largely covered by the shallow alluvium of Hancock Wash and a covered extension is assured by RDH SE-6, copper oxides in outcrops and large areas of leached capping. My impression is that all of the alluvium in the wash is underlain by leached capping. The Eastern Target area that needs to be explored by drilling is at least 2,000 feet long and 600 to 900 feet wide. The largest ore potential on the property is obviously here, but there is only one drill hole. The best known section of the

property is the ore grade copper deposit on and west of Outcrop Hill. It appears to be 1500 feet long and 200-400 feet wide.

Possible Ore Reserves - Outcrop Hill

Since this report was originally written in January, 1989, I have had time to study the Cyprus data (D. Wahl, 1988) and draw some conclusions as to possible ore reserves and potential of the Stray Elephant copper deposit. On Wahl's 1"=200' Drill Hole Location Map, I have drawn the approximate limits of significant copper oxide mineralization and plotted areas of probable oxide copper ore on Wahl's cross sections. During a recent trip to the property, I concluded that those limits are larger. In these calculations, the Outcrop Hill deposit is considered to be 1480 feet long and 200 to 400 feet wide, with 7 blocks of possible ore.

The RDH SE 2 possible ore cross section has at least 20,000 sq ft; SE 1, 36,000 sq ft; SE 5, 36,000 sq ft; SE 3, 54,000 sq ft; SE 8, 36,000 sq ft; SE 4, 27,000 sq ft.

From West to East (12.5 cu ft/ton divisor):

				% Cu	%ASCu
1)	0 - RDH SE 2	350' X 20,000 sq ft	560,000 tons	.42	.36
2)	SE 2 - SE 1	350' X 45,000 sq ft	784,000 tons	.70	.33
3)	SE 1 - SE 5	180' X 36,000 sq ft	518,400 tons	.43	.36
4)	SE 5 - SE 3	200' X 45,000 sq ft	720,000 tons	.70	.38
5)	SE 3 - SE 8	160' X 45,000 sq ft	576,000 tons	.74	.40
6)	SE 8 - SE 4	170' X 31,500 sq ft	428,400 tons	.56	.36
7)	SE 4 - 1480W	70' X 27,000 sq ft	151,200 tons	.49	.36
	Total Possible Reserves		3,738,000 tons	.60	.36

It is recognized that there are not enough samples, nor are they well-distributed, in each block to propose a reliable weighted average grade. None-the-less, it's a start. It is also proposed that the acid soluble or cold copper assays are considerably lower than the amounts of copper we can expect to recover. Arithmetic averages are discussed below.


Average grade of oxide copper reserves is expected to exceed 0.5% Cu. This conclusion is based on a compilation of 220 surface and drill hole assays from Outcrop Hill and RDH SE-6 (the only hole in the East Target) which range from 0.03% thru 3.70% Cu and average 0.64% Cu. Average assay of 122 of those samples assayed

for Acid Soluble Cu is 0.43% A.S. Cu (range 0.01 - 2.95% A.S. Cu). With a 0.2% Cu cutoff, 175 of the 220 samples average 0.77% Cu, and 87 samples average 0.56% A.S. Cu. With a 0.1% Cu cutoff, judged to be reasonable at >85 cents/lb. copper, 202 of the 220 samples average 0.69% Cu, and 104 samples average 0.50% A.S. Cu.

Most of the samples taken to date are from Outcrop Hill. Until more data are available, they represent the possible grade of the 3,738,000 tons of possible reserves in blocks 1 thru 7 referred to above. In the reserve area, 194 samples range from 0.03 thru 3.70% Cu and average 0.64% Cu. 104 samples range from 0.01 - 1.73% A.S. Cu, averaging 0.38% Cu. With a 0.2% Cu cutoff, 175 samples average 0.77% Cu, and 87 samples average 0.56% A.S. Cu. With a 0.1% Cu cutoff, 184 samples average 0.67% Cu, and 86 samples average 0.45% A.S. Cu.

The 3.7 million tons proposed occupy only 1/3 of the length of the copper zone, so one could consider a total potential reserve of 11 million tons, triple the possible reserves of Outcrop Hill. However, drill holes Q-4 and SE-7 found no ore, although it is probably present in their vicinity, so a very conservative estimate of the potential is at least 7.5 million tons, double the possible reserves of Outcrop Hill.

The east target area has one drill hole, SE-6, which cut 0.81% Cu at 55-115 feet and 0.7% Cu at 160-180 feet, with limonitic leached capping above and between the oxide ore zones. The 80 foot thick ore section of this hole and the >500 foot width suggested by mineralized exposures on both sides of the wash over a 2,000 foot length suggest an exploration potential of over 6,000,000 tons in the east target. On this basis, the Stray Elephant property has a potential of over 10,000,000 tons of oxide copper ore.


James D. Loghry

2	H4	100-111	1.20
2	H4	111-126	1.30
2	H4	126-141	1.60

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2	H4	141-156	3.70						
BLOCK 2				.70	.33	784000.00	.70	548800.00	.33 258720.00

3	SE1 SEE ABOVE	C21-C48		
3	F2640	.28		
3	S11	.94	.84	
3	S19	1.76	1.58	
3	S20	.14		
3	S21	.21	.14	
3	SE5 BELOW ORE			
3	H3 N. OF ORE			

BLOCK 3				.43	.36	518400.00	.43	222912.00	.36 186624.00
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4	F2641	.10		
4	F2642	1.00		
4	F2643	.45		
4	F2646 PORTAL	.39		
4	F2647	.06		
4	S5 ADIT	.81	.72	
4	S6 ADIT	1.39	.68	
4	S7 ADIT	.53	.44	
4	S8 ADIT	.17		
4	S9 ADIT	.21	.08	
4	S10 ADIT	.09		
4	WINZE SULFIDE	1.58	LABEL	
4	PORTAL	1.45		
4	PORTAL	2.45		

4	Q-1	0-5	.54	
4	Q-1	5-10	.38	
4	Q-1	10-15	.37	
4	Q-1	15-20	.29	
4	Q-1	20-25	.48	
4	Q-1	25-30	.26	
4	Q-1	30-35	.44	
4	Q-1	35-40	.18	
4	Q-1	40-45	.41	
4	Q-1	45-50	.36	
4	Q-1	50-55	.41	
4	Q-1	55-60	.23	
4	Q-1	60-65	.59	
4	Q-1	65-70	.70	
4	Q-1	70-75	1.21	
4	Q-1	75-80	1.47	
4	Q-1	80-85	.72	
4	Q-1	85-90	.55	
4	Q-1	90-95	.50	
4	Q-1	95-100	.42	
4	Q-1	100-105	.32	
4	Q-1	105-110	.55	

4	Q-1 CPY ORE	110-190 .82% Cu		
4	Q-1	0-110 CuOx	.52	

4	SE3	0-5	.45	.33
4	SE3	5-10	.37	.26
4	SE3	10-15	.06	.03
4	SE3	15-20	.10	.05
4	SE3	20-25	.91	.70
4	SE3	25-30	1.01	.88
4	SE3	30-35	.54	.39
4	SE3	35-40	.28	.28

4	SE3 40-45	.33	.24
4	SE3 45-50	.40	.21
4	SE3 0-50 OXIDE	.46	.34 LABEL

File: SE ORE 1

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4	SE3 50-100 SULFIDE	.29	.05 LABEL
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4	H1 0-25 LOST CORE		
4	H1 25-30	1.60	
4	H1 30-36.5	.95	
4	H1 36.5-46	.85	
4	H1 46-51	.50	
4	H1 51-56.5	.60	
4	H1 56.5-59.5	2.40	
4	H1 59.5-64	.40	
4	H1 64-65.5	3.40	
4	H1 65.5-69.5	.60	
4	H1 69.5-73.5	.50	
4	H1 73.5-81	1.80	
4	H1 81-85	1.00	
4	H1 85-91	.90	
4	H1 91-101	.50	
4	H1 25-101		1.14

BLOCK 4		.70	.38	720000.00	.70	504000.00	.38	273600.00
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5	SE3 SEE ABOVE C,D 113-122		
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5	H1 SEE C127-143		
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5	SEE C77, 79-87		
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5	SE8 0-5	.30	.28
5	SE8 5-10	.31	.27
5	SE8 10-15	.31	.17
5	SE8 15-20	.48	.40
5	SE8 20-25	.80	.77
5	SE8 25-30	.52	.47
5	SE8 30-35	.41	.31
5	SE8 35-40	.41	.31
5	SE8 40-45	.62	.52
5	SE8 45-50	.48	.41
5	SE8 50-55	.83	.77
5	SE8 55-60	.67	.60
5	SE8 60-65	.73	.67
5	SE8 65-70	.37	.30
5	SE8 70-75	.27	.18
5	SE8 75-80	.15	
5	SE8 80-85	.11	
5	SE8 85-90	.74	.66
5	SE8 90-95	.38	.32
5	SE8 0-95		.47 .44

5	F2646	.39	
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5	#2 TRENCH	1.10	CAR 49.5 TONS AS&R
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5	#2 TRENCH	2.10	CAR 54.74 TONS MAGMA
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BLOCK 5		.74	.40	576000.00	.74	426240.00	.40	230400.00
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6	F2544	.05	
6	F2545	.49	
6	H2 0-6	.30	
6	H2 6-11	.50	
6	H2 11-15.5	1.10	
6	H2 15.5-20	.90	
6	H2 20-29.5	.70	
6	H2 29.5-33	.60	

6	H2 33-49.5	.10
6	H2 49.5-55	.40
6	H2 55-64.5	2.10

File: SE ORE 1

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6	H2 64.5-67	1.00
6	H2 67-72	1.70
6	H2 72-77	.20
6	H2 77-86.5	.10
6	H2 86.5-95.5	.20
6	H2 95.5-105.5	.20
6	H2 105.5-114	.80
6	H2 114-125	.20
6	H2 125-130.5	1.70
6	H2 0-130.5	.71

6	SE4 0-5	.03	.01
6	SE4 5-10	.05	.02
6	SE4 10-15	.18	.12
6	SE4 15-20	.10	.05
6	SE4 20-25	.11	.04
6	SE4 25-30	.11	.03
6	SE4 30-35	.12	.08
6	SE4 35-40	.14	.11
6	SE4 40-45	.60	.68
6	SE4 45-50	.47	.41
6	SE4 50-55	.36	.33
6	SE4 55-60	.57	.49
6	SE4 60-65	.59	.51
6	SE4 65-70	.44	.39
6	SE4 70-75	.23	.21
6	SE4 75-80	.41	.38
6	SE4 80-85	.54	.47
6	SE4 85-90	.18	.16
6	SE4 90-95	.32	.28
6	SE4 95-100	.35	.26
6	SE4 100-105	.45	.42
6	SE4 105-110	.86	.54
6	SE4 110-115	.34	.30
6	SE4 115-120	1.08	.44
6	SE4 120-125	1.25	1.18
6	SE4 125-130	1.57	.59
6	SE4 130-135	.97	.60
6	SE4 135-140	.96	.83
6	SE4 140-145	.81	.64
6	SE4 0-145	.49	.36

6 Q3 190-400 .43 SULFIDE

BLOCK 6 178-229	.56	.36	428400.00	.56	239904.00	.36	154224.00
BLOCK 7 SE4 0-145	.49	.36	151200.00	.49	74088.00	.36	54432.00

BLOCKS 1-7 AVG GRADE .64 .38 ARITHMETIC AVG %OUTCROP HILL TOTAL &

NUMBER OF SAMPLES 194.00 104.00

RANGE MINIMUM	.03	.01
RANGE MAXIMUM	3.70	1.73

0.2% Cu CUTOFF	.77	.56
NUMBER SAMPLES	175.00	87.00

0.1% Cu CUTOFF	.77	.45
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NUMBER SAMPLES	184.00	86.00
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BLOCKS 1-7 WTD GRADE	.60	.36	3738000.00	2251144.00	.60	1359600.00
File: SE ORE 1						

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MIDDLE BLOCK NO DATA

EAST BLOCK

SE6	55-60	1.28	1.08		
SE6	60-65	3.04	2.95		
SE6	65-70	1.70	1.58		
SE6	70-75	1.22	1.12		
SE6	75-80	1.08	.96		
SE6	80-85	.47	.39		
SE6	85-90	.24	.13		
SE6	90-100	.26	.14		
SE6	100-105	.28	.23		
SE6	105-110	.55	.50		
SE6	110-115	.61	.58		
SE6	115-120	.26	.20	.92	.82
SE6	120-125	.08			
SE6	125-130	.09			
SE6	130-135	.06			
SE6	135-140	.06			
SE6	140-145	.07			
SE6	145-150	.08			
SE6	150-155	.05			
SE6	155-160	.06		.07	
SE6	160-165	.27	.24		
SE6	165-170	.78	.67		
SE6	170-175	.92	.80		
SE6	175-180	1.38	1.10		
SE6	180-185	.20	.12		
SE6	185-190	.35	.13	.65	.51
SE6	55-180			.62	.79
SE6	55-190			.59	.72

BLOCKS 1-7+SE6 (EAST)	.64	.43
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NUMBER OF SAMPLES	220.00	122.00
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RANGE MINIMUM	.03	.01
RANGE MAXIMUM	3.70	2.95

0.2% Cu CUTOFF	.77	.56
NUMBER SAMPLES	175.00	87.00

0.1% Cu CUTOFF	.69	.50
NUMBER SAMPLES	202.00	104.00

October 24, 1989; Revised January 25, 1990

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Stray Elephant Copper Deposit
La Paz County, AZ

Location and Ownership

The Stray Elephant copper deposit lies within the west block of the SE Claim group, the SE 23-52, and SE 57-62 claims, AMC Nos. 105436 - 105471, a block of 36 contiguous claims largely in Section 31, T4N, R20W, and Section 6, T3N, R20W (see enclosed maps), part of a group of 78 contiguous SE Claims. The east block of 42 claims covers an area with potential for large, low grade gold deposits, access roads that would support the copper operations, areas suitable for leach pads and SX-EW plant and a possible water supply. The claims are in the Middle Camp - Oro Fino mining district in the south Dome Rock Mountains, La Paz County, Arizona, along and south of Interstate 10, 7 - 8 miles west of Quartzsite, Arizona and about 13 miles east of Blythe, California (USGS Middle Camp Mountain 7.5' Quadrangle).

The property offers easy access, nearby electric power and natural gas. Water supply would come from wells to be drilled on the property or from a well to be drilled or leased in the Colorado River valley about 5 miles westerly. There appears to be a light power line 0.7 miles north of Outcrop Hill along I-10 but the closest heavy duty power is about 3 miles west and a big water well is at the Beacon service station and Ryder factory at Tom Wells Road 4.6 miles away, west of the property.

The claim owners, each owning an equal undivided 25% interest in the SE Claims are:

- 1) Heinrichs GEOEXploration Company, an Arizona Corporation, Walter E. Heinrichs, President, located at 810 West Grant Rd., Tucson, Arizona 85705; mailing address P.O. Box 5964, Tucson, Arizona 85703-0964, which addresses shall serve as the claimowners' address;
- 2) William C. Hirt, a single man, residing at 639 South 500 East, Salt Lake City, Utah 84102;
- 3) James D. Loghry and Margaret R. Loghry, husband and wife, residing at 2121 East Monte Vista Dr., Tucson, Arizona 85719;
- 4) Richard J. Lundin and Vicki J. Lundin, husband and wife, residing at 372 Hackberry Circle, Prescott, Arizona 86303.

Property History

The property was originally located in 1906 by Miguel Apodoes (spell?), later by Beggs and McIntyre who did shallow surface exploration and drove an adit and winze in the 1920's when the property was known as the Weaver mine. After the death of Beggs, Ben Scott located the property and it came to be called the Scott-Weaver mine.

Royal Investment Company - 1956

Royal Investment Corporation optioned the property from Scott and explored it in 1956 under the direction of E. Ross Householder, a well-known Kingman mining engineer. Royal dug and sampled numerous trenches, sampled ore grade material in the adit and winze, made at least two carload smelter shipments of oxide copper ore and drilled 4 vertical diamond drill holes. Householder (9/29/56, 12/19/56) reported: 21 bulk samples taken from trenches, underground workings and outcrops that averaged 1.85% Cu; two car loads, 104 tons, that averaged 1.1% and 2.1% Cu; DDH No. 1, 0-101 feet, 24 feet lost, 77 feet average 1.02% Cu; DDH No. 2, 0-130 feet average 1.15% Cu; DDH No. 3, drilled a short distance north of the copper deposit was assayed to 102 feet, has three composite sample assays ranging from trace to 0.2% Cu; DDH No. 4, 0-156 feet average 1.4% Cu, bottomed in 3.7% Cu. When assayed, gold and silver values in the deposit were found ranging from 0.002 - 0.02 OPT Au and 0.1 - 1.2 OPT Ag. The highest grade surface sample taken from the #1 (near H-1 drill hole?) access road assayed 3.41% Cu, 0.02 opt Au and 1.2 opt Ag. Householder reported that the copper deposit is over 3900 feet long. From the above sampling program Householder assumed an average grade of 1.58% Cu for the entire deposit and 375,000 tons of positive and probable ore, 720,000 tons of possible ore plus 2,500,000 tons of expectant ore, totalling 3,595,000 tons. He recommended more core drilling which he believed would double those reserves. The recommended drilling was never accomplished.

Kerr McGee/Hancock Oil - 1960 - 1975

The property was further explored and developed by Hancock Oil Company in the 1960's. Burton Hancock apparently purchased the property from Ben Scott, continued surface exploration work and drilled one rotary hole S-1 in the wash beyond the east outcrop of the copper deposit, results unknown. He surveyed 9, perhaps 13 claims for patent, but died before completing the patent process. Kerr McGee staked most of the district and leased the Hancock property in 1973-75, as part of a large porphyry copper exploration project, drilling 6 diamond drill holes, Q-1 - Q-6. Q-1 is a vertical hole within the deposit which cut 190 feet of ore grade copper, the upper 110 feet being oxide copper ore. Q-3 is a vertical hole on the north boundary of the deposit which found chalcopryrite ore. The others are outside of the Stray Elephant copper deposit, Q-6 being an angle hole directed under the deposit. Near the Q-6 collar, Q-2 is a vertical hole north

of the deposit. Q-4 is an angle hole drilled on the presumed buried east extension of the deposit that missed the deposit. Q-5 is an angle hole that never reached the deposit. Kerr McGee personnel felt that the potential of the Stray Elephant copper deposit as known at the time was 15,000,000 to 20,000,000 tons of ore-grade copper mineralization at or near the surface in Hancock Wash. They thought that the deposit might be part of a much larger concealed porphyry copper ore body, so most of their holes were drilled outside and beneath the deposit, in an effort to expand it or discover its possible buried extensions. Vertical DDH Q-1 was drilled on a pad within an open cut in the deposit on the north side of Outcrop Hill, cut 0-110 feet of 0.52% Cu as the copper oxides chrysocolla and lesser malachite and brochantite and 110-190 feet of 0.82% Cu as chalcopryite, a combined 190 feet of 0.65% Cu; also at 410-440 feet, 30 feet of 0.86% Cu as chalcopryite. Vertical DDH Q-3, immediately north of the oxide copper deposit, found about 203 feet of quartz monzonite containing 0.43% Cu as chalcopryite at 190-400 feet. Adjacent holes DDH H-2 and Cyprus RDH SE-3 were in oxide copper ore.

The property came open after Burton Hancock's death and the present owners staked the SE Claims in 1980 and 1982.

Amoco Minerals - 1983

In 1983, Amoco Minerals optioned the SE Claims, did a limited amount of geologic mapping and geochemical sampling and on August 22, 1983, drilled one 150 foot diamond drill hole (SE-1) in the silicified zone a short distance north of the alluvium-buried contact of the Stray Elephant copper deposit solely to fulfill assessment work requirements. They seemed to have selected a convenient site that required no cat work and made no attempt to drill the copper ore on Outcrop Hill. From 10 - 150 feet, the hole averaged 47 ppm Cu, 0.2 ppm Au and 1 ppm Ag. Because of its location, this hole has no bearing on the ore potential of the SE copper deposit. In November, 1983, Fuller, under the direction of F. Mack of Amoco collected 18 rock chip samples (F 2633 - F 2650), 11 of them (F 2637 - F 2647, range 485 - >10,000 ppm Cu, average >3663 ppm Cu) from leached outcrops in the copper deposit of Outcrop Hill (see 1" = 200' topographic map). Using a cutoff of 0.2% Cu, which excludes four samples, seven samples ranged from 2800 to >10,000 ppm Cu, averaging 5343 ppm or 0.53% Cu. Amoco dropped the lease abruptly in January, 1984 when budget cuts demolished their hardrock exploration program and dismembered their minerals exploration department.

Cyprus Metals Company - 1988

In November, 1987, Dr. William Rehrig, President of Applied Geologic Studies, Inc. (AGS), a Denver consulting firm, examined the Stray Elephant copper deposit for client Cyprus Metals Company. At that time, Cyprus was looking for copper oxide deposits with a potential greater than 5,000,000 tons @ 0.5% Cu, or 50,000,000 pounds of copper. Cyprus felt that they could make

a substantial fast profit from heap leaching and using portable SX-EW plants on such deposits. At that time Cyprus management agreed with Dr. Rehrig that the Stray Elephant met their requirements and optioned the property February 23, 1988. The prospect was assigned to the engineers of Cyprus Metals Development, Green Valley, Arizona, who were engaged in examining mines and buying ore reserves and plants. They were not interested in exploring the Stray Elephant or any pre-development property no matter how appealing and tried to skuttle the project. James Compton, President of Cyprus Metals insisted that they follow through with a drilling program and in May, 1988, they reluctantly ordered AGS to start work on the property with no advance preparation, limited time and a very small budget.

Dr. Rehrig assigned consulting geologist Dr. David Wahl to the project. Wahl did a fine job in spite of the limitations forced by Cyprus Metals Development. He examined the property for the first time with me and Rehrig on a hot May 4th. Within two weeks he collected surface samples and prepared a map of the west half of the copper zone, did the necessary BLM permitting, hired contractor Hollis Ramsey of Parker to rebuild old trails and construct new trails and drill sites he had selected for a mobile reverse circulation drill rig AGS had contracted for. It turned out that the driller was not licensed to operate in Arizona and Cyprus Development would not allow AGS the time to find another reverse circulation rig, but insisted that a large truck mounted rotary drill of Ventures Drilling Company be employed immediately, even though it had limited angle hole capability and was too large to get on the critical sites on Outcrop Hill, where the largest tonnage potential appeared to be.

Wahl's 16 surface samples in the copper deposit range 0.08-1.76% total Cu, averaging 0.55% total Cu. Using a 0.2% Cu cutoff, 11 samples average 0.74% Cu. Eleven samples with acid soluble copper assays range 0.08-1.58% A.S. Cu. With a 0.2% Cu cutoff, 9 samples range 0.37-1.58 A.S. Cu and average 0.70% A.S. Cu.

From June 3 thru June 11, 1988; 8 rotary percussion drill holes, SE-1 - 8, ranging from 155 to 350 feet for a total footage of 1910 feet, were drilled by the Ventures Drilling Company of Tucson under Wahl's supervision. Five were vertical holes; three were angle holes directed S80W or S120W at -57-63°. They are scattered along 2600 feet of the copper deposit, 300 to 1,130 feet apart. Six of the 8 holes cut ore grade copper oxide and sulfide mineralization. Drill hole SE-5 does not show the ore body because it passes below the ore intercepts of Kerr McGee DDH Q-1 and DDH H-1. Drill hole SE-7 is a vertical hole that cut 155 feet of well-altered and mineralized granite (quartz monzonite) and schist with anomalous copper values. I suspect that the ore will be found by drilling a short distance south of RDH SE-7. Geology, mineralization, total copper and acid soluble copper assays are summarized in Table 1.

Table 1. Cyprus 1988 Rotary Drill Holes - SE Copper Claims

<u>RDH No.</u>	<u>Feet</u>	<u>% Cu</u>	<u>% A.S.</u>	<u>Geology-Minerals</u>
SE-1	0-140	.39	.31	Schist, Granite 0-125;
	0-100	.20	.16	
-90	100-140	.81	.66	Schist, 125-300;
300'	140-155	.14		FeOx, chrys 0-130; Do+Py,
	155-200	.032		Cc, Cp 130-165; Py, Cc, Cp, local
	200-300	NO ASSAY		FeOx 165-245; Py, Cp, Cc 245-300
				Water Table 135'
SE-2	0-40	.42	.36	Schist 0-200; FeOx, Chrys 0-40;
-90	15-30	.65	.52	FeOx, Cc 40-100; FeOx 100-125;
200'	40-115	.037	.015	Py, CuOx min'ls 125-200
	115-200	.011		Water Table 175'
SE-3	0-50	.40	.34	Oxide Ore Gran, Sch 0-25;
-57	50-100	.29	.05	Sulfide Sch 25-180;
180'	100-110	.08		FeOx, Chrys 0-80; Py, Cp, local
	110-180	NO ASSAY		FeOx 80-140; Py, rare Cp 140-180
				Water Table 160'
SE-4	0-145	.49	.36	Granite 0-80; Schist, local
-90	40-145	.64	.48	granite 80-225; FeOx 0-225;
225'	145-175	.10		Chrys 0-160; Py, local Cp
	175-200	.03		120-195; Water Table 100'
	200-225	NO ASSAY		
SE-5	0-125	NO ASSAY		Gran 0-215; Gran, Sch, Qtz,
-59	125-220	.014		215-280; Gran 280-330; Gran, Qtz
350'	220-300	.15		Sch 280-350; FeOx 0-160; FeOx,
	270-280	.30		Py 160-225; Do + Cp 225-285;
	300-350	NO ASSAY		Py, Cp, Cc, local FeOx 285-350;
				Water Table 95'
SE-6	0-55	.033		Leached Capping, Granite, FeOx
-90	55-190	.59		Granite, Schist? 90-100';
250'	55-120	.92	.82	Granite, 100-185'
	120-160	.07		Leached Capping, 120-160';
	160-190	.65	.51	Cc, 140-160', Water Table 155'
	190-250	.046		Schist, 185-250'
				Py, FeOx, 185-205'
SE-7	0-125	.042		Gran 0-60; Gran, sch 60-70;
-90	125-155	.09		Gran 70-85; Sch, Gran 85-100;
155'				FeOx 0-85; FeOx, Py 85-140;
				Sch 100-115; Sch, Gran 115-155;
				Py, Cp, FeOx 125-140; Py, Cp, Cc
				140-155; Water Table 155'.
SE-8	0-95	.47	.44	Gran 0-65; Sch 65-250;
-63	95-115	.153		FeOx, chrys 0-115; Py, Cp 110-
250'	115-130	.047		250; Water Table 105'.
	130-145	.233		
	145-175	.075		
	175-205	.037		
	205-250	.019		

A cursory inspection of Wahl's cross sections drawn on the ore holes suggest the presence of a copper zone 50 to 100 feet wide, controlled by and spreading out from two well-mineralized vein-faults dipping northerly at 60-70°. The widths of the deposit are actually much greater. On Outcrop Hill, the partly exposed deposit is about 200 feet to 400 feet wide. In the east target area, outcrops on both sides of the wash suggest possible widths of 600 to 900 feet. The Cyprus angle holes appear to have penetrated a zone of cupiferous veins and veinlets 50-100 feet wide, but the hole angles were too steep to demonstrate the true widths of the deposit. They did not test the broader surface and near-surface copper oxide deposit that promises substantial open pit tonnage.

At the conclusion of the preliminary program, AGS personnel reported to Cyprus that the deposit has a resource of about 5,000,000 tons of material greater than 0.5% Cu, and recommended more drilling to prove up ore reserves. Cyprus Development personnel replied that they had doubled their original tonnage and grade requirements and were not interested in any further testing of the Stray Elephant deposit. We were advised that Cyprus would be dropping the option in a letter of July 14, 1988 and the contract expired August 15, 1988.

Geology and Ore Potential

The Stray Elephant copper deposit occurs in a steep north dipping N60-70°W reverse fault zone along the contact of a strongly altered quartz monzonite porphyry stock and Jurassic metavolcanic schists and metasediments. The higher grade copper mineralization occurs in the schists, although there is ore grade mineralization in the quartz monzonite as well. Much of the deposit is concealed under the shallow alluvium of Hancock Wash, but outcrops of strong oxide copper mineralization and associated silicification and argillization can be observed over a length of more than 4200 feet. Refer to B. Leedy's 1" = 1000' geologic map for an independent survey.

The prospect area to be explored is over a mile long. Only a small amount of surface copper mineralization has been found west of the Stray Elephant property on the State-owned east half of Section 36. We believe it has little potential for ore deposits, but it should be re-examined by any party leasing the SE Claims. The west or northwest zone of ore grade copper oxide mineralization is about 1500 feet long, located on Outcrop Hill and lower ground west of the hill. A middle block of prospective ground 1,100 feet long, completely covered by the sand and gravel of Hancock Wash has been prospected by only two drill holes, DDH Q-4 and RDH SE-7. I am certain that there is a substantial tonnage of oxide copper ore concealed in the middle block. To the east the copper zone is largely covered by the shallow alluvium of Hancock Wash and a covered extension is assured by RDH SE-6, copper oxides in outcrops and large areas of leached

capping. My impression is that all of the alluvium in the wash is underlain by leached capping, suggesting a large amount of copper oxide mineralization below. The Eastern Target area that needs to be explored by drilling is at least 2,000 feet long and 600 to 900 feet wide. The largest ore potential on the property is obviously here, but SE-6 is the only drill hole. The best known section of the property is the ore grade copper deposit on and west of Outcrop Hill. It appears to be 1500 feet long and 200-400 feet wide.

Possible Ore Reserves - Outcrop Hill

Since this report was originally written in January, 1989, I have had time to study the Cyprus data (D. Wahl, 1988) and draw some conclusions as to possible ore reserves and potential of the Stray Elephant copper deposit. On Wahl's 1"=200' Drill Hole Location Map, I have drawn the approximate limits of significant copper oxide mineralization and plotted areas of probable oxide copper ore on Wahl's cross sections. During a recent trip to the property, I concluded that those limits are larger. In these calculations, the Outcrop Hill deposit (west or northwest zone) is considered to be 1480 feet long and 200 to 400 feet wide, with 7 blocks of possible ore defined by Wahl's drill hole cross sections.

The RDH SE 2 possible ore cross section has at least 20,000 sq ft; SE 1, 36,000 sq ft; SE 5, 36,000 sq ft; SE 3, 54,000 sq ft; SE 8, 36,000 sq ft; SE 4, 27,000 sq ft.

From West to East (12.5 cu ft/ton factor):

				% Cu	% ASCu
1)	0 - RDH SE 2	350' X 20,000 sq ft	560,000 tons	.42	.36
2)	SE 2 - SE 1	350' X 45,000 sq ft	784,000 tons	.70	.33
3)	SE 1 - SE 5	180 X 36,000 sq ft	518,400 tons	.43	.36
4)	SE 5 - SE 3	200' X 45,000 sq ft	720,000 tons	.70	.38
5)	SE 3 - SE 8	160' X 45,000 sq ft	576,000 tons	.74	.40
6)	SE 8 - SE 4	170' X 31,500 sq ft	428,400 tons	.56	.36
7)	SE 4 - 1480W	70' X 27,000 sq ft	151,200 tons	.49	.36
	Total Possible Reserves		3,738,000 tons	.60	.36

It is recognized that there are not enough samples, nor are they widely and well enough distributed in each block to propose a reliable weighted average grade. However, the 0.60% Cu weighted average is supported by the 0.64% Cu arithmetic mean of 220

reported and located surface and drill hole samples. Arithmetic averages of surface and drill hole samples are discussed below.

Average grade of oxide copper reserves is expected to exceed 0.5% Cu. This conclusion is based on a compilation of 220 surface and drill hole assays from Outcrop Hill and RDH SE-6 (the only hole in the East Target) which range from 0.03% thru 3.70% Cu and average 0.64% Cu. Average assay of 122 of those samples assayed for "Acid Soluble" Cu is 0.43% A.S. Cu (range 0.01 - 2.95% A.S. Cu). With a 0.2% Cu cutoff, 175 of the 220 samples average 0.77% Cu, and 87 samples average 0.56% A.S. Cu. With a 0.1% Cu cutoff, judged to be reasonable at >85 cents/lb. copper, 202 of the 220 samples average 0.69% Cu, and 104 samples average 0.50% A.S. Cu.

Most of the samples taken to date are from Outcrop Hill and vicinity, the west end of the deposit. Until more data are available, they represent the possible grade of the 3,738,000 tons of possible reserves in blocks 1 thru 7 referred to above. In the reserve area, 194 samples range from 0.03 thru 3.70% Cu and average 0.64% Cu. 104 samples range from 0.01 - 1.73% A.S. Cu, averaging 0.38% Cu. With a 0.2% Cu cutoff, 175 samples average 0.77% Cu, and 87 samples average 0.56% A.S. Cu. With a 0.1% Cu cutoff, 184 samples average 0.67% Cu, and 86 samples average 0.45% A.S. Cu.

It should be mentioned that the "acid soluble" or "cold copper" assays are considerably lower than the amounts of copper we can expect to recover by leaching and solvent extraction. Bottle roll tests of Cyprus SE drill hole cuttings by Metcon Research (September 8, 1989) support this view. Recoveries from three low grade (0.09 - 0.16% Cu) samples ranged from 60% to 88% and recoveries from the four higher grade (0.36 - 0.54% Cu) samples ranged from 86% - 96%, and recoveries from the 7 samples averaged 82%. Total recoveries after repeated rinse cycles of heaped, crushed ore are expected to be higher, possibly as much as 90%.

The 3.7 million tons proposed occupy only 1/3 of the known length of the copper zone, so one could consider a total potential reserve of 11 million tons, triple the possible reserves of Outcrop Hill. However, drill holes Q-4 and SE-7 found no ore, although it is probably present in their vicinity, so a very conservative estimate of the potential is at least 7.5 million tons, double the possible reserves of Outcrop Hill.

The east or southeast target area has one drill hole, SE-6, which cut 0.81% Cu at 55-115 feet and 0.7% Cu at 160-180 feet, with limonitic leached capping above and between the oxide ore zones. The 80 foot thick combined ore section of this hole and the more than 600 foot width suggested by mineralized exposures on both sides of the wash over a 2,000 foot length suggest an exploration potential of over 6,000,000 tons in the east target. On this basis, the Stray Elephant property has a potential of over 10,000,000 tons of oxide copper ore.

James D. Loghry
James D. Loghry

Laramide (?) intrusive). DDH Q-1, which was drilled mostly in schist, had intercepts of 200 feet of about 0.6% copper from the surface to a depth of about 200 feet; the copper is in the form of brochantite, chrysocolla, and malachite, partly disseminated and partly on fractures, and also disseminated and veinlet chalcopryite. There is a further 30 feet of approximately 0.6% copper (disseminated chalcopryite - bornite) at 400 - 430 feet. The mineralization in Q-1 is associated with sericite and biotite alteration.

DDH Q-3 intercepted 203 feet of 0.43% copper mineralization, mostly in quartz monzonite, from about 190 feet to about 400 feet of depth. The mineralization is in the form of chalcopryite associated with phyllic alteration (quartz-sericite-pyrite).

Significant amounts of molybdenum are associated with copper mineralization intercepted in DDH Q-1 and Q-3, and probably elsewhere as well.

In DH Q-6 was found 50 feet of 0.2% copper in a faulted block of quartz monzonite. The mineralization is chalcopryite associated with quartz-sericite-pyrite alteration and some tourmaline.

Tourmaline was noted in all of the Q holes, but most strongly in holes Q-2, Q-4, and Q-6, both disseminated and in veinlets.

Many of the earmarks of economic porphyry copper deposits found elsewhere in the Southwest are present in the Sugarloaf Peak area. These include the Pb-Zn-Mo geochemical anomalies, the well developed and widespread alteration zoning, presence of abundant alunite and tourmaline, and outcrops of disseminated copper mineralization in a potassic alteration zone. All these favorable geological characteristics indicate that more work is warranted to test for the presence of economic quantities of disseminated copper - molybdenum mineralization in the Sugarloaf Peak area.

Recent geochemical sampling and mapping (Jan.-Feb. 1982) have revealed the presence of anomalous gold values in host rocks favorable for lode gold mineralization. These results suggest the possibility of a stockwork gold deposit and/or Goldfield, Nevada - type mineralization which could have acted as a source for the placer gold mined in the early days of the district. More work is needed to define the areas of gold anomalism, favorable host rocks and to determine if potential economic targets for gold mineralization exist.

William C. Hirt
Geological Engineer
and Metallurgist



March 1984

HEINRICHS GEOEXPLORATION COMPANY

P.O. BOX 5964, TUCSON, ARIZONA 85703. 806 WEST GRANT ROAD. PHONE: (602) 623-0576

SE Property Summary Sheet

The SE property is in the Middle Camp-Oro Fino Mining District in the Dome Rock Mountains in La Paz County, Arizona. The property is on Interstate 10, about eight miles west of Quartzsite, Arizona and about thirteen miles east of Blythe, California. The property consists of 78 lode claims, located in sections 31, 32 and 33, T. 4 N., R. 20 W., sections 5 and 6, T. 4 N., R. 20 W., and section 36 T. 4 N., R. 21 W., totalling about 1,330 acres.

This area is shown on the Middle Camp Mountain USGS 7 1/2 minute topographic map. The claims bear US BLM Serial Numbers AMC105414 through AMC 105471 and AMC 186704 through 186723. They were staked in 1980 and 1982.

Ownership rests with four Arizona residents, each with a one quarter undivided interest. They are Walter E. Heinrichs, Jr., William C. Hirt, James D. Loghry of Tucson and Richard J. Lundin of Prescott, AZ.

The initial interest in the immediate claim area during recent times was for its porphyry copper-molybdenum potential. In this connection, during the period 1962 - 1975, mapping, sampling and rotary and diamond exploration drilling totalling approximately 18,500 feet was done by several concerns, one of them a major oil and mining company. More recently, the SE group has been re-evaluated in light of geochemical and geological data as a gold target, and the minerals division of a major oil company leased the property in 1983. This company drilled one hole required for annual labor purposes but, unfortunately, due to a sudden unexpected corporate-wide budget cut, they had to turn it back to the owners in January 1984. Results of some of the work done to date on the property are available to interested parties. We feel that the mineralization disclosed thus far warrants further investigation.

Further information may be obtained at the above address.

78 SE Claims

Lease-option Terms and Conditions

Purchase price: \$10,000,000 or \$5,000,000 plus perpetual NSR or equivalent royalty commencing on initial date of production in the amount of 4% on Federal lands. All payments, including production royalties, apply towards the purchase price. Payments, toward the purchase price must be structured as capital gains, not advance royalties or rentals. If either of the above alternative purchase prices are acceptable to the optionees, the owners require no term to the agreement; if not acceptable and the optionees offer a reduced price, the owners insist on a 5 year term to the agreement.

Payment Schedule

(Minimum advance royalties)

<u>Year</u>	<u>Amount</u>
1	\$6,000 in advance for the first 6 months. \$7,500 in advance for the second 6 months.
2	\$18,000 in advance.
3	\$21,000 in advance.
4 and beyond	\$24,000 in advance.

Annual labor must be performed by optionee if the claims are held beyond Feb. 1 of any year. Labor must be physical labor (dozing, drilling, mining, etc.) on the federal claims, and must be at least \$7,800 per year.

Sixty days notice is required before dropping the lease or option.

Area of interest: There will be an area of interest extending one mile from the exterior boundary of the claim/prospecting permit block. Any claims staked by either party or prospecting permits acquired shall be subject to the terms of the agreement.

Data: All factual data acquired and developed by the optionees shall be released to the owners when and if the lease is dropped. Information or reports shall be made available to the owners periodically during the term of the lease. The owners will hold these data confidential.

4/19/89

Billetos - (Georgia)

Dave Brown, Lancaster, CAL

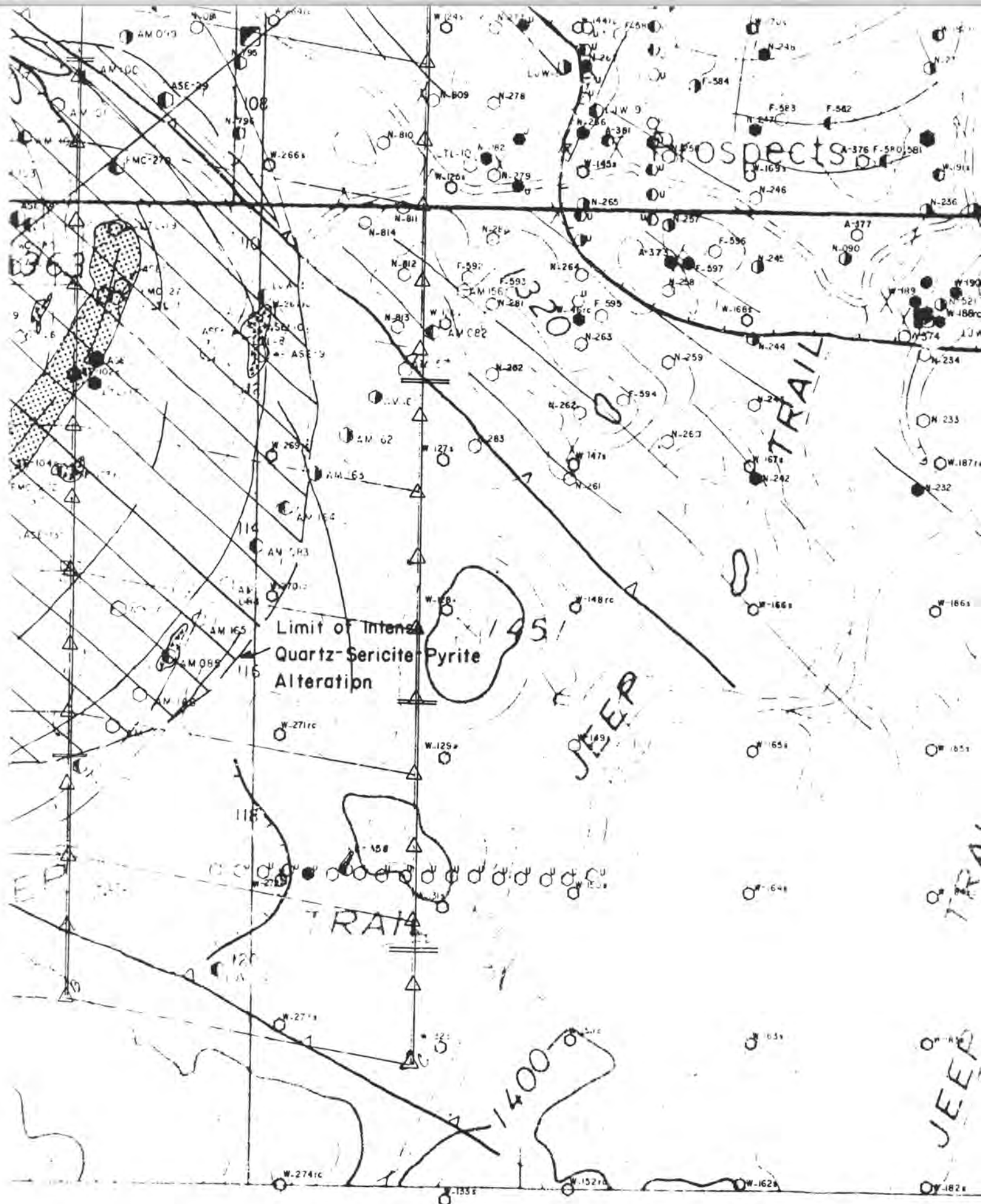
Steve Moore

326-2700

Clark Arnold

3131 N. C. Club. (near Ft. Lowell.)

File 110, So end.) 5716



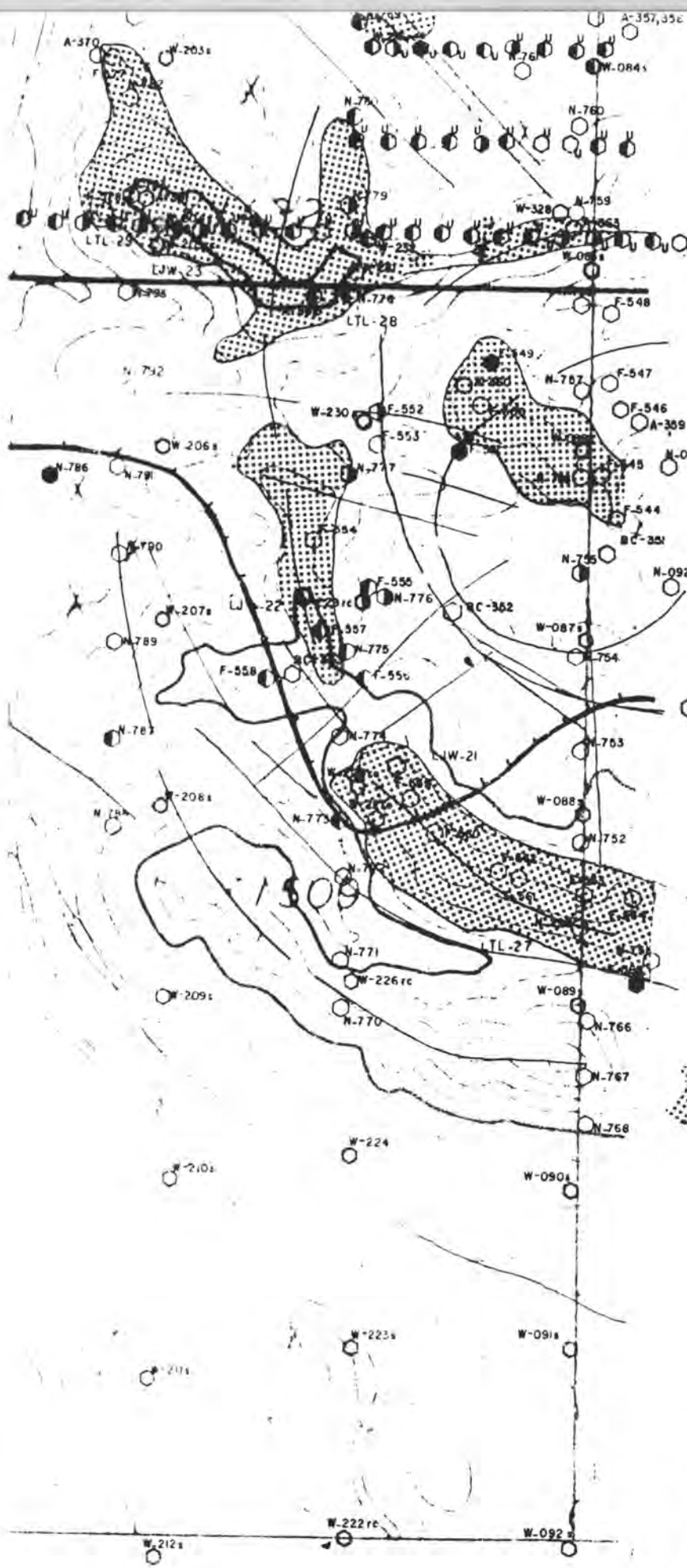


FIGURE 1:
GEOLOGIC & GEOCHEMICAL
SAMPLE LOCATION MAP
SE CLAIM GROUP
YUMA COUNTY ARIZONA

SCALE 1"=500'

EXPLANATION

- LOCATION MONUMENT
- SAMPLE SITES
- ANOMALOUS GOLD ZONES
- ANOMALOUS COPPER ZONES
- LOW ANGLE FAULT
- LINEAR STRUCTURES
- ANOMALOUS SILICIFIED ZONES
- <0.02 to 0.02 ppm Au
- 0.03 to 0.29 ppm Au
- 0.30 to 0.99 ppm Au
- >1.0 ppm Au

WALLABY
ENTERPRISES
INC.

Breccia Zones



△ 1984-1985 Geochemical Sample Sites

1984-1985 Radiometric/ULF-EM Traverses

ULF-EM Crossovers


9/19/89

Dear Walt -

I got your note ^{yesterday} ~~a couple days~~
~~ago~~ (Monday 9/18). Haven't had
time to digest the report yet,
but I will, and will send along
my comments. My mother is here for a
one-month visit, and between trying to
entertain her and working overtime at
the Bureau, it may be a few weeks
before I send my comments.

In the meantime, here is my check
for the filing fees. I hope Jim
is successful with his group.



Best regards to
you & Jean,
Bill


September 27, 1989

STRAY ELEPHANT COPPER PROJECT

The Stray Elephant Copper property is located 7 - 8 miles west of Quartzsite, Arizona and approximately 1/4 mile south of Interstate 10. The deposit has been drilled in the northern section of the claim groups in the area known as "outcrop hill". Outcrop hill will be the first area to be mined as it has the most drilling information, low stripping ratio, and high grade ore that is immediately accessible. The reserves are estimated to be 3.7 million tons at 0.6% copper in this northern zone. The southern zone has only one drill hole of significance and will need extensive drilling to further define the ore reserves.

The proposed mining rate is 3000 tons per day of ore, five days per week, with an average copper content of 0.60% copper. The ore is to be crushed with a primary crusher to produce a final product that will be 100% minus four inches. The crushed material will be transported to the plastic lined leaching area. One week of mining, i.e., 15,000 tons of ore, will constitute an individual leach pad. Each leach pad will nominally be 120' long, 120' wide, and 19' high. The ore will be leveled and then crossripped with a Kelly ripper prior to any solution application.

Cure leaching will be employed on the Stray Elephant ore to minimize acid consumption and maximize copper extraction from the ore. The cure solution will be applied in two applications with a rest period between applications. The rinse cycle will commence on the 15th day using the raffinate or barren solution from the solvent extraction facility. The rinse cycle will be between 90 and 120 days depending on the rate of mining and rate of copper extraction from the pads. Solution flowrate for both the cure and rinse solutions will be 0.0025 gallons per minute per square foot of leach area. Copper extractions are projected to be 80% on the first rinse cycle and approximately 90% with subsequent rinse cycles. The ore is overlaid in successive lifts as the mining progresses which enables the rinse solution to pass through the lower pads and leach additional copper.

The lined leach pad area will nominally be 500' wide by 600' long to allow a leaching grid of 4 pads in width by 5 pads in depth. With a 13 week rinse cycle there will be 13 pads under active rinse at any given time. One week is needed to construct a pad, one week is allowed to level and apply piping, and two weeks are needed to apply cure solution, therefore, four more pads are under some phase of development prior to rinsing. The pads need a minimum of one week for drying to remove the piping before they can be overlaid with new ore. This accounts for 18 pads and a twenty grid pad allows two pads for any upset in the production schedule. This is the minimum surface area needed if a 13 week (91 day) rinse cycle is used.



September 27, 1989

With a rinse flowrate of 0.0025 gpm/square foot of leach surface a flow of 36 gpm is needed for each pad. At steadystate conditions, i.e., 13 pads under rinse, a flowrate of 468 gallons per minute will report to the pregnant leach solution (PLS) surge pond at the base of the lined leach area. The PLS will contain 3.66 g/l copper at steadystate and will continue to increase as the height of the leach area increases and the overall extraction in the pads exceeds 80%.

The pregnant leach solution is pumped from the PLS surge pond to the solvent extraction facility. The purpose of the solvent extraction is to selectively extract the copper from the PLS with an organic extractant (LIX 984) and then to re-extract or strip the copper from the organic with a strong solution of sulfuric acid. The final product of the solvent extraction facility is a rich or strong extract which contains about 50 g/l copper in solution as copper sulfate. The PLS after solvent extraction which is now barren in copper is called raffinate and this solution is recycled back to the leach to be used as rinse solution. The raffinate is more acidic than the PLS as there is an exchange of hydrogen for copper in the extraction phase of solvent extraction. The raffinate is normally acidic enough to be used as rinse solution without additional acid being added.

The solvent extraction facility will consist of two stages of extraction and one stage of stripping. The extraction stages will be designed to handle 600 gpm of PLS which will allow the rinse cycle to be increased to 17 weeks in the future. This will permit the PLS to drop to 2.78 g/l copper and still maintain a daily production of 20,000 pounds of copper. At steadystate conditions with 13 pads under rinse the average daily production of copper will nominally be 20,000 pounds.

The organic will consist of 13 v/v % Lix 984 in a high flash point kerosene diluent. The organic flow will be equal to the PLS flow at all times in the extraction stages and strip stage. The strip aqueous flow will vary depending on the desired copper content in the strip extract. Aqueous recycles will be used to maintain organic to aqueous ratios in the mixers at 1/1.

The strip extract with approximately 50 g/l copper in solution will be pumped to the crystallization area. Sulfuric acid at 93 - 97% purity will be added to this solution to change the solubility of the copper sulfate. Copper sulfate pentahydrate crystals will form and be removed with a liquid-solid separation system such as a Sweco vibrating screen or a centrifuge. The crystals are washed with water to remove excess acid and dried prior to shipment. The spent solution that is lower in copper but higher in acid content is returned to the strip stage of solvent extraction to produce strip extract. The wash water is also added to the spent solution to provide the necessary water in the crystals.

The copper sulfate pentahydrate production will be 78,740 pounds per day with contained copper of 25.4%. These crystals can be sold as copper sulfate, sold to a smelter, or sold to an existing SX-EW facility that has plating capacity.

September 27, 1989

The maximum return for the copper sulfate pentahydrate is to sell into the copper sulfate market. The existing market in the United States is on the order of 80 million pounds per year. This will require some time to penetrate and an E.P.A. number will be required for us to sell into the retail market. Crystal size is one of the main parameters to sell into this market in addition to product purity. We are considering making a large crystal to begin with and then later put in a recrystallization facility to make the fine size crystals. The product sold in this form is a value added product and its price is somewhat independent of the Comex price of copper. Selling to the smelters or SX-EW will result in a discount from the Comex price of copper of between 20 - 30 cents per pound of contained copper.

J.M. SIERAKOSKI

STRAY ELEPHANT CYPRUS SAMPLES - METCON FERRIC ACID LEACH

M No.	SAMPLE	CALC %Cu	RECOV %Cu
1	SE2 40-45	.089	60.330
2	SE2 10-15	.160	59.100
3	SE1 30-35	.098	88.100
4	SE8 65-70	.362	91.380
5	SE8 15-20	.469	86.000
6	SE2 35-40	.488	92.040
7	SE1 5-10	.537	95.990
AVERAGE	M1 - M7	.315	81.849
AVERAGE	M2, M4 - M7	.403	84.902
AVERAGE	M4 - M7	.464	91.352

Metcon Research Inc.
1844 W. Grant Road, Suite #106
Tucson, AZ 85745
(602) 623-1327

08-Sep-89

M - 1

DATE:

1

PROJECT

SE-2 (40-45)

TEST No.

M. Sierakoski

SAMPLE No

J. L./E.I.

FEED

pulverized sample (-100 mesh)

BY

Ferric-Acid leach (95.6 gram per liter acid leach solution)

OBJECTIVE

		C O N D I T I O N S				I A C I D		F e r r i c		l b / l b	
OPERATION	-hr	TIME	%SOLIDS	pH/pHf	Ferric	CUMULATIVE CONSUMP (lb/lb)	(lb/Ton)	Added (g)	ICUMUL	CONSUMP	
PULVERIZATION			100.00								
ACID LEACH -0		10:00 A	33.33	1.1	5 gpl			5.00		20.49	
ACID LEACH -2											
ACID LEACH -4								0.00		20.49	
ACID LEACH -6											
ACID LEACH -8											
ACID LEACH -16											
ACID LEACH -20											
ACID LEACH -24		10:00 A	32.80	0.9		100.72	107.65			20.49	

		A S S A Y S				T O T A L C O N T E N T		D I S T R I B U T I O N %		
PRODUCTS	grams	mls	%Cu	%n.s.Cu	%Fe	Cu (mg)	n.s.Cu	(mg) Fe	%Cu	%n.s.Cu %Fe
PULP /SOLTN	1000									
PREG +WASH		1670	0.016			267.2			60.33	
LEACH TAILS	488		0.036			175.7			39.67	
CALC HEAD	500		0.089			442.9			100.00	
HEAD ASSAY			0.080							

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1844 W. Grant Road, Suite #106
Tucson, AZ 85745
(602) 623-1327

08-Sep-89

M - 1

DATE:

2

TEST No.

M. Sierakoski

PROJECT

SE-2 (10-15)

FEED

pulverized sample (-100 mesh)

SAMPLE No

J. L./E.I.

BY

Ferric-Acid leach (95.6 gram per liter acid leach solution)

OBJECTIVE

C O N D I T I O N S				FERRIC	
OPERATION	TIME	%SOLIDS	pH/pHf	Added (g)	lb/lb
PULVERIZATION		100.00			
ACID LEACH -0	10:00 A	33.33	0.9	5.00	20.79
ACID LEACH -2					
ACID LEACH -4				0.00	20.79
ACID LEACH -6					
ACID LEACH -8					
ACID LEACH -16					
ACID LEACH -20					
ACID LEACH -24	10:00 A	32.48	0.9		20.79
				92.85	

WEIGHT/VOLUME		A S S A Y S			T O T A L C O N T E N T			D I S T R I B U T I O N %		
PRODUCTS	grams	mls	%Cu	%n.s.Cu	%Fe	Cu (mg)	n.s.Cu	(mg) Fe	%Cu	%n.s.Cu
PULP /SOLTN	1000									
PREG +WASH		1630	0.029			472.7			59.10	
LEACH TAILS	481		0.068			327.1			40.90	
CALC HEAD	500		0.160			799.8			100.00	
HEAD ASSAY			0.132							

Metcon Research Inc.
1844 W. Grant Road, Suite #106
Tucson, AZ 85745
(602) 623-1327

08-Sep-89

DATE:

3

TEST No.

M. Sierakoski

FEED

Ferric-Acid leach (95.6 gram per liter acid leach solution)

OBJECTIVE

M - 1

PROJECT

SE-1 (30-35)

SAMPLE No

J. L./E.I.

BY

C O N D I T I O N S				FERRIC ADDED (g)	FERRIC lb/lb CUMUL CONSUMP
OPERATION	TIME	%SOLIDS	pH/pHf		
PULVERIZATION		100.00			
ACID LEACH -0	10:00 A	33.33	0.8	5.00	20.37
ACID LEACH -2					
ACID LEACH -4				0.00	20.37
ACID LEACH -6					
ACID LEACH -8					
ACID LEACH -16					
ACID LEACH -20					
ACID LEACH -24	10:00 A	32.93	0.8		20.37
				50.20	86.85

A S S A Y S				T O T A L C O N T E N T			D I S T R I B U T I O N %		
PRODUCTS	WEIGHT/VOLUME	grams	mls	%Cu	%n.s.Cu	%Fe	Cu (mg)	n.s.Cu	(mg) Fe
PULP /SOLTN	1000								
PREG +WASH			1730	0.025			432.5		
LEACH TAILS	491			0.012			58.9		
CALC HEAD	500			0.098			491.4		
HEAD ASSAY				0.086					
							88.01		
							11.99		
							100.00		

Metcon Research Inc.
1844 W. Grant Road, Suite #106
Tucson, AZ 85745
(602) 623-1327

DATE: 08-Sep-89

5

TEST No.

M. Sierakoski

pulverized sample (-100 mesh)

FEED

Ferric-Acid leach (95.6 gram per liter acid leach solution)

OBJECTIVE

M - 1

PROJECT

SE-8 (15-20)

SAMPLE No

J. L./E.I.

BY

C O N D I T I O N S				FERRIC		CUMULATIVE CONSUMPTION		FERRIC		CUMULATIVE CONSUMPTION	
OPERATION	-hr	TIME	%SOLIDS	PHI/pHf	Ferric	ACID (lb/lb)	(lb/Ton)	Added (g)	lb/lb	Added (g)	lb/lb
PULVERIZATION			100.00								
ACID LEACH -0		10:00 A	33.33	0.8	5 gpl			5.00	20.41		
ACID LEACH -2											
ACID LEACH -4								0.00	20.41		
ACID LEACH -6											
ACID LEACH -8											
ACID LEACH -16											
ACID LEACH -20											
ACID LEACH -24		10:00 A	32.89	0.8			75.52		20.41		

A S S A Y S				T O T A L C O N T E N T				D I S T R I B U T I O N %			
PRODUCTS	grams	mls	%Cu	%n.s.Cu	%Fe	Cu (mg)	n.s.Cu (mg)	%Cu	%n.s.Cu	%Fe	
PULP /SOLTN	1000										
PREG +WASH		1600	0.126			2016.0			86.00		
LEACH TAILS	490		0.067			328.3			14.00		
CALC HEAD	500		0.469			2344.3			100.00		
HEAD ASSAY			0.410								

Metcon Research Inc.
1844 W. Grant Road, Suite #106
Tucson, AZ 85745
(602) 623-1327

08-Sep-89

DATE:

7

TEST No.

M. Sierakoski

PROJECT

SE-1 (5-10)

SAMPLE No

J. L./E.I.

FEED

Ferric-Acid leach (95.6 gram per liter acid leach solution)

OBJECTIVE

M - 1

		C O N D I T I O N S				ACID		Ferric	lb/lb
		TIME		%SOLIDS	pHi/pHf	Ferric	CUMULATIVE CONSUMP	Added (g)	CUMUL
OPERATION	-hr						(lb/lb)	(lb/Ton)	CONSUMP
PULVERIZATION				100.00					
ACID LEACH -0		10:00 A		33.33	0.8	5 gpl		5.00	20.45
ACID LEACH -2									
ACID LEACH -4								0.00	20.45
ACID LEACH -6									
ACID LEACH -8									
ACID LEACH -16									
ACID LEACH -20									
ACID LEACH -24		10:00 A		32.84	0.8		13.97	143.95	20.45

JAMES D. LOGHRY

CONSULTING GEOLOGIST
2121 EAST MONTE VISTA DRIVE
TUCSON, ARIZONA 85719

(602) 323-2945

December 27, 1989

Mr. Dana Durgin
Alta Gold Company
P.O. Box 324
East Ely, Nevada 89315



Dear Dana:

It was good to talk with you several weeks ago. I have been buried under a project which I just completed; haven't had time to do anything else.

Enclosed is my report concerning our Stray Elephant oxide copper deposit, the basis for Bluestone Resources' business plan and proposals sent to you by Dave Hackman following your telephone conversation with him. I am enthusiastic about Bluestone's participation in a Stray Elephant project because they are the only people we have talked to who understand the immediate production potential of the property, and have the will, expertise and contacts to do the job. They are the only people I know who could go to production in the year's time it will probably take to complete the permitting.

You may decide you'd rather go it alone since you have the mining expertise. I encourage an alliance with Bluestone because it appears to be a quick and painless way to get into the leach copper mining business, and would probably lead to other projects with them.

I am pleased to hear you are considering exploration in this part of the world and will help you in any way I can.

Sincerely yours,

James D. Loghry

Recd: Tucson, AZ
1/17/89

January 17, 1989

To: Ramon Shannon

From: Jim Loghry

Re: Proposed Deal, 36 SE Copper Claims
La Paz County, Arizona

Mining Lease with Option to Purchase

5 year term

\$4,000,000 buyout

\$24,000 down

\$2,000 per month advance royalty OR

4% NSR production royalty, whichever is greater

\$50,000 minimum annual work expenditure, to include drilling

2 mile area of interest

30 day notice of lease relinquishment

Payments to be made to: Stray Elephant Claim Owners
Account No. 642-12128
First Interstate Bank of Arizona
Campbell Plaza Office
P.O. Box 40700
Tucson, AZ 85717



December 9, 1987

William A. Rehrig
Applied Geologic Studies, Inc.
3375 South Bannock-Suite 210
Englewood, Colorado 80110

Dear Bill,

It was good to be in the field with you again although it was too short a time.

Please return that target and claim map ASAP as I don't seem to have another copy. When you've copied Householder's report, please return it to me.

I'm sending under separate cover the Kerr McGee Q-1 - 7 diamond drill hole logs. They felt that the prospect had 15,000,000 - 20,000,000 tons of 0.50-0.60% Cu copper oxide and sulfide ore and were seeking to expand that potential with their drilling, so only spent one hole, Q-1, in the oxide deposit outcrop. That hole cut 0-110' (110') @ 0.52% Cu as chrysocolla with lesser malachite and brochantite; and 110-190' (80') @ 0.82% Cu as disseminated and veinlet chalcopryrite, to total 0-190' @ 0.65% Cu; also 30' (410-440') @ 0.86% Cu as chalcopryrite.

It's obvious that the Scott-Hancock copper deposit is associated with a high angle north dipping reverse fault zone in a Laramide stock or a late stage portion of the Jurassic Middle Camp pluton and metamorphosed Jurassic volcanics, tuffs and metasediments. Length of the copper-bearing alteration zone is at least 4,000 feet, much of it concealed under the alluvium of Hancock Wash.

The property was examined and sampled in 1956 for Royal Investment Co. by E. Ross Householder, a well-known and respected mining engineer of Kingman, Arizona. You have a copy of his 9/29/56 report and his supplementary letter-report of 12/19/87. Householder (12/19/56, p. 1, 13) reports that the copper deposit is over 3900 feet long. He reports 375,000 tons of positive and probable ore, and 720,000 tons of possible ore plus 2,500,000 tons of expectant ore, totaling 3,595,000 tons and proposes the possibility of doubling those reserves with more core drilling. The average grade of samples collected by various means was 1.575% Cu.

Royal drilled 4 diamond drill holes dubbed H-1 - 4 by Kerr McGee. Since Householder uses them in his ore reserve calculations, they were probably all ore grade holes. Our copy of the report shows assays for three of the holes but those for H-3 are not present. Possibly another examination of the ADMMR

files might turn up these assays. Since H-3 is described by Householder as being 200' NW of the adit portal, I assume it was an ore hole like the others. H-1 was at the portal mouth; assayed 24-101' TD (77') @ 1.02% Cu; the first 24' were lost; bottomed in .5% Cu. This hole apparently went deeper, because Householder reports that sulphide ores were encountered at 172' in this hole. Samples cut on either side of the portal assayed 1.45% and 2.15% Cu.

H-2 was 200' SE of the portal, a vertical hole; I've seen the casing. Assays were 130.5' @ 1.15% Cu, according to Householder, who averaged in a 1.7% Cu composite assay of the whole hole with the individual core assays which averaged .6% Cu. The hole bottomed in 1.7% Cu.

H-3 was 200' NW of the portal. Assays and depth unknown.

H-4 was on the west side of outcrop hill, 800' NW of H-2. It was 156' deep, averaged 1.4% Cu, bottomed in 3.7% Cu.

The information available suggests that the Scott-Hancock copper deposit meets Cyprus' specifications of 5 million tons of .5% Cu. If it proves to be somewhat smaller, the grade will probably make up for it. Now we need a lot of drilling to prove up an economic deposit.

Kerry McDonald called last night to initiate discussions. His limited proposal for the copper area is OK so far. A problem I am trying to resolve is that a competitor has made a similar offer with a higher NSR and doesn't want to release the copper area of the claim group. Kerry called again tonight and made a proposal we can accept. If the letter of intent confirms it, I'll advise my partners to go with it.

Regards,

James D. Loghry

1161.08 - Checking
1835.92

SE F

Bus Corn - I.D. Partnership.

How to make Check.

I.D. 86-0358467

Corn + Ahern

8425 Desert Steps Dr.

Tucson 85710

2-16-88

4 Joint tenants - (S.E. Claims)
Not tenants in common.

Compensate Russ Corn + ~~the other~~ ^{Dick Ahern}
(as a finder's fee) together i.e. the both
of them a total of 10% of ^{income} ~~and~~ received
by joint tenants.

In other words, each joint
tenant contributes effectively of his
income which effectively amounts
to 5% of the whole to Russ Corn
+ Dick Ahern respectively.

~~XXXXXX~~



Cyprus Metals Company
An Affiliate of Cyprus Minerals Company

Post Office Box 1126
Green Valley, Arizona 85622-1126
Telephone (602) 628-4000

July 14, 1988

Received: 7/15/88
A. D. Loghry

Mr. James D. Loghry
2121 East Monte Vista Drive
Tucson, Arizona 85719

Reference: Mining Lease and Option to Purchase Agreement,
Dated February 23, 1988 (Stray Elephant)

Subject: Termination of Agreement

Dear Mr. Loghry:

In accordance with Clause 3.2 of the above referenced Agreement, Cyprus Metals Company, hereby gives you thirty (30) day written notice that we are terminating this Agreement.

We are in the process of preparing our Quitclaim Document and the Affidavit of Assessment work, which we will forward to you under separate cover letter.

Please, advise us of a shipping address where you would like for us to ship all drill hole cores and other documents in accordance with Clause 3.2 Paragraph (ii).

Sincerely,

C. W. Reno
Executive Vice President
Cyprus Metals Development

CWR/mb

cc: J. C. Compton, M/C 200A
P. Brady, M/C 267-A
M. Clarke
D. Tritthart

File: 14-14
CWR.001



CYPRUS

2121 E. Monte Vista Dr.
Tucson, Arizona 85719
(602)323-2945
July 18, 1988

Mr. Charles W. Reno, Executive Vice President
Cyprus Metals Development
Cyprus Metals Company
P.O. Box 1126
Green Valley, Arizona 85622-1126

Re: Stray Elephant Cyprus Agreement (2/23/88) Termination

Dear Mr. Reno:

Your thirty day Notice of Termination, sent by Registered Mail, was received here July 16, 1988 and our Agreement terminates August 15, 1988. The partners thank Cyprus personnel and consultants for their efforts in exploring our Stray Elephant copper prospect, La Paz County, Arizona.

We shall expect to receive the Quitclaim Document and the Affidavit of Assessment Work in the near future.

In accord with Section 3.2 (ii) of the Agreement, please deliver factual geological, geochemical and assay data and maps, drill hole logs, reference cuttings or sample boards and sample pulps to:

Walter E. Heinrichs (602) 623-0578
Heinrichs GEOEXploration Company
P.O. Box 5964
Tucson, Arizona 85703-0964

810 W. Grant Rd.
Tucson, AZ 85705

It won't be necessary to save the sample rejects.

Yours truly,

James D. Loghry



ARIZONA DEPARTMENT OF WATER RESOURCES

99 E. Virginia Avenue, Phoenix, Arizona 85004



HEINRICHS GEOEXP. CO.
806 W. Grant Road
Tucson, Az. 85703

Registration No.
File No.

JUNE 8, 1988

55-521336 B(4-20)31

Dear Well Owner:

Enclosed for your records is an annotated copy of the Notice of Intention to Drill an exploration well which was recently filed with this Department. This is returned to you as evidence of compliance with A.R.S. §45-596. Your designated driller has been mailed separately a Well Drilling Card which he is required to have in his possession before commencing to drill the well.

☐ Since this well is being drilled as a monitor well, or for cathodic protection, grounding, geotechnical or piezometer purposes, our standard driller report form is also being furnished to the driller which he is required to complete and return to the Department within 30 days after the completion of drilling. A Completion Report form is being furnished for monitor wells where pump equipment is authorized to be installed as part of this packet so that you may submit the report within 30 days after the installation of pumping equipment on a monitor well as required by A.R.S. §45-600.

☒ This well is authorized to be drilled for mineral exploration purposes. Because of this, no pump equipment may be installed. A Project Completion Report is being furnished your designated driller for each hole to be drilled. Your driller is required to submit this Project Completion Report within 30 days after completion of drilling. You should insist that this is done.

For monitor, geotechnical, cathodic protection, grounding and piezometer wells, you should obtain the written permission of the Department of Water Resources before proceeding with the drilling in the event that you determine it necessary to change the location of the proposed well. A properly signed amended Drilling Card must be in the possession of the driller before drilling commences at a different location than originally authorized.

For your future use, a Change of Well Information form is enclosed should it become needed. Per A.R.S. §45-593, the person to whom a well is registered shall notify this Department of a change of ownership of the well and/or information pertaining to the physical characteristics of the well, including abandonment, in order to keep the well registration file current and accurate.

Sincerely,

R. A. Gessner
R. A. Gessner

Chief, Operations Division

RAG:
Enclosures
DWR-55-8-8/84



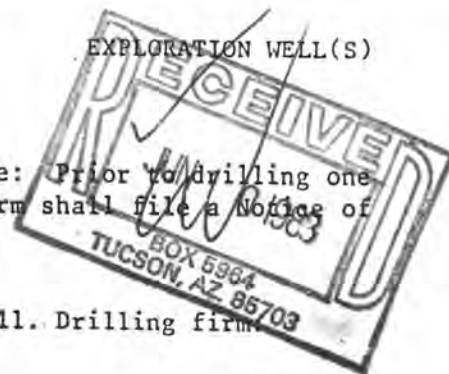
SE - West
(C4PR45)

EXPLORATION WELL(S)

FILING FEE \$10.00

DEPARTMENT OF WATER RESOURCES (DWR)
NOTICE OF INTENTION TO DRILL
EXPLORATION WELL(S)

EXPLORATION WELL(S)



Section 45-596, Arizona Revised Statutes and Rule R12-15-817 provide: Prior to drilling one or more exploration wells, the well owner, lessee or exploration firm shall file a Notice of Intention to Drill on a form provided by the Department.

WELL/LAND LOCATION

1. Township 4 N/S
Range 20 E/W
Section 31

7. Number of wells ~8
(See Condition 3 on reverse)

11. Drilling firm

In the case of a single well,
list 10-acre subdivision

1/4, 1/4, 1/4

2. County LA PAZ

3. Applicant:

CYPRUS METALS CO.

Name

7200 S. ALTON WAY

Address

ENGLEWOOD, CO 80115

City State Zip

4. DAVID WAHL

NAME OF CONTACT PERSON

Phone (602) 946-0559

5. Owner of well:

HEINRICH'S GEOEXP. CO.

Name

806 W. GRANT ROAD

Address

TUCSON, AZ 85703

City State Zip

6. Purpose of well(s) drilled pursuant to this Notice:

Mineral Exploration ☒
Geotechnical ☐
Cathodic Protection ☐
Grounding ☐

8. Owner of land:

HEINRICH'S GEOEXP. CO.

Name

806 W. GRANT ROAD

Address

TUCSON, AZ 85703

City State Zip

9. DESCRIPTION OF WELL:

Diameter 6 1/2 inchesDepth = 250 feetType of casing NONE
(If none, so state)

10. Construction will start:

6 2 88
Month Day Year

VENTURE DRILLING

Name

P.O. Box 35938

Address

TUCSON, AZ 85740

City State Zip

144 A-4

DWR License Number

12. Period well will remain in use < 1 months.

13. Proposed method of abandonment of well(s) after project is completed:

PLUG SET AT
22' 20' OF
CEMENT WITH
TOP 2' OF
HOLE FILLED
WITH DRILL
CUTTINGS

DO NOT WRITE IN THIS SPACE
OFFICE RECORDFile No. B(4-20)31Filed 5-27-88 By SV

Input _____ By _____

Duplicate Mailed 6-7-88 By SVRegistration 55-521336

AMA/INA _____

W/S 02 S/B _____14. Is the proposed wellsite within 100 feet of a septic tank system, sewage disposal area, landfill, hazardous waste facility or storage area of hazardous materials? Yes ☒ No ☐

If yes, a request for a variance must accompany this application pursuant to R12-15-820.

GENERAL INSTRUCTIONS

- Fill out this form in duplicate and mail to Department of Water Resources, Suite 100, 99 East Virginia, Phoenix, Arizona 85004.
- Proper filing fee of \$10.00 must accompany Notice.

I state that this Notice is filed in compliance with Rule R12-15-809 and is complete and correct to the best of my knowledge and belief and that I understand the conditions set forth on the reverse side of this form.

DATE

5/27/88

DWR 55-40-8/86 (Revised)

Signature of Applicant

David Wahl
Signature of Applicant

CONDITIONS

1. Construction and abandonment standards for all wells shall be in accordance with DWR Rules R12-15-811 and R12-15-816.
 2. Drilling of the well(s) shall be completed within one (1) year after the date of Notice.
 3. Mineral exploration, geotechnical, cathodic protection or grounding holes of 100 feet of depth or less do not apply to these provisions and do not require filing. However, if water is encountered during the drilling of these wells, then the well(s) must be properly abandoned in accordance with Condition 1 above.
 4. More than one well may be drilled under a single notice for mineral exploration, geotechnical, cathodic protection and grounding purposes, so long as they are located within a single section.
 5. A Project Completion Report, DWR-55-42-10/83, for each hole is required within 30 days of completion of the project.
 6. Pump equipment may not be installed on wells drilled for mineral exploration, geotechnical, cathodic protection or grounding purposes.
 7. Special construction standards required pursuant to R12-15-821: _____
- _____
- _____



DEPARTMENT OF WATER RESOURCES
99 East Virginia Avenue
Suite 100
Phoenix, Arizona 85004

CHANGE OF WELL INFORMATION

55-521336

Registrar

B(4-20)31

I request the following information be changed in Well

Date _____, 19 _____

Signature of Well Owner _____

STATEMENT OF CHANGE OF WELL OWNERSHIP

I, _____, state that I am (no longer) the
(new) owner of the well described below:

Township _____ Range _____ Section _____, _____ $\frac{1}{4}$ _____ $\frac{1}{4}$ _____ $\frac{1}{4}$

Registration #55- _____ File No. _____

Previous Owner _____

New Owner _____

Address _____

Address _____

City _____

State _____

Zip _____

City _____

State _____

Zip _____

NOTE: ARS §45-593 requires that the Department be notified of change of well ownership and that the well owner is required to keep the Department's Well Registration records current and accurate. Well data and ownership changes must be submitted within 30 days after changes take place.

NOTE: SAVE THIS FORM TO REPORT FUTURE
CHANGES IN OWNERSHIP OR WELL
DATA SUCH AS PUMP CAPACITY, ETC.

SE 101 4hr 120

Docket 1303 pages 729 thru 769

$$\frac{62}{57} \frac{5}{5}$$

$$\frac{1-52}{51} \frac{5}{51}$$

Docket 1168 pages 643 thru 746

~~2 pages 747 thru 758~~

$$\frac{247}{12}$$

$$\frac{12}{114}$$

Recorded in La Paz County
Recorder's Office

$$\frac{40}{2} = 20 \text{ Claims}$$
$$\frac{58}{78} \frac{4}{82}$$

Cypress Ind. Minerals
Terry McDonald

Jim Loggery Re: S.E.
12/4/87 Claims,

Bill Kuehlig,

6 feet off #18K water

St Fe

Loghry called Re:

11/18/87

SB Claims #1425 Farmout interests:
also Harry Gare. Aust.
Bill Rehreig. Daves.

Tom Roefch St. Fe #3 land man.

Denny Cole, Dale Touhey made definite offer:

10 year lease, no buy out,
\$2000⁰⁰ down + \$2000/yr escalation.

4% net smelter.

12/10/87

Cyprus Metals: \$12,000 down 3% N.S.R.
Cal Isles, ex Duval
Copper portion only.
Intent letter.
4mm buy out?
\$2000/mo rental.

International Mining

Cii House, 31 Theobalds Road, London WC1, England.
Tel: 01-242 3771 Telex: 299656 (Cii G)

URGENT

October 1987

THE NEW 1988 BUYERS' GUIDE

Dear Sir,

Preparations for the new 1988 edition of the **International Mining** Equipment Buyers' Guide are now well-advanced. A great deal of time has been spent by the staff of **International Mining** to try to ensure that the guide will be comprehensive, and yet at the same time, easy to use.

International Mining, by its very nature, is an international publication. The new guide is designed to be a standard reference for equipment buyers in the international market, so if your company is only involved in selling its products on a national or domestic basis, and does not participate in the export market, please let us know at once.

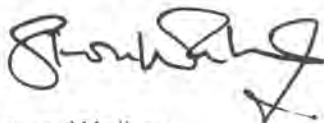
I enclose details of the records that we have on file for your company. Please may I ask you, as a matter of urgency, to check these listings, which you will find on the half-size sheets, against the main list of products category headings which is also enclosed with this letter.

If you find that any of the information contained in our records is not correct, please mark the necessary corrections next to the relevant entry. If, as well, you find that there are product categories for your company that have not been included in our records, please mark these categories on the main reference list.

Please also check your company details that we have included; please make any amendments necessary to the address, and include your telephone and telex numbers so that these can be included in our records.

Finally, please return all the details about your company and your products to us, using the enclosed pre-addressed envelope. Please do this now.....the 1988 **International Mining** Equipment Buyers' Guide is due for publication in the December issue of the magazine, so there is no time to lose.

Thank you for your help.
Yours sincerely



Simon Walker
Technical Editor, **International Mining**



A Construction Industry International Publication

1/8 SE Claims

Lease-option Terms and Conditions

Purchase price: \$10,000,000 or \$5,000,000 plus perpetual NSR or equivalent royalty commencing on initial date of production in the amount of 4% on Federal lands and 2% on State lands. All payments, including production royalties, apply towards the purchase price. Payments, toward the purchase price must be structured as capital gains, not advance royalties or rentals. If either of the above alternative purchase prices are acceptable to the optionees, the owners require no term to the agreement; if not acceptable and the optionees offer a reduced price, the owners insist on a 5 year term to the agreement.

Payment Schedule

(Minimum advance royalties)

<u>Year</u>	<u>Amount</u>
1	\$6,000 in advance for the first 6 months. \$7,500 in advance for the second 6 months.
2	\$18,000 in advance.
3	\$21,000 in advance.
4 and beyond	\$24,000 in advance.

Annual labor must be performed by optionee if the claims are held beyond Feb. 1 of any year. Labor must be physical labor (dozing, drilling, mining, etc.) on the federal claims, and must be at least \$7,800 per year.

Sixty days notice is required before dropping the lease or option.

Area of interest: There will be an area of interest extending one mile from the exterior boundary of the claim/prospecting permit block. Any claims staked by either party or prospecting permits acquired shall be subject to the terms of the agreement.

Data: All factual data acquired and developed by the optionees shall be released to the owners when and if the lease is dropped. Information or reports shall be made available to the owners periodically during the term of the lease. The owners will hold these data confidential.

10/23/87

Log# 323-2945

SE Claims

Willis Rhea ex Simpbt etc
Galone, Az (Dan Patch father on
Copperstone)
927-6304

Says Indians going after old reservation land.
may affect our claims?

also George Dean^(out) of SLC, Utah is
overstating and selling interests to
3rd parties. Rhea believes he has (may have?)
overstated SE's at least in part.

W.

Enclosures

John Murphy
Bill McDonald

Sincerely,

I look forward to serving you.

To solve the problems you face, and do it in a cost-effective manner, I've enclosed ordering information on our business response card for your convenience. For additional information, check the box on the reply card. Or, don't hesitate to call.

Please take a moment to look over the literature for a better idea of what these performance proven sorbents can do for you.

In short, no matter what kind of spill or leak you have potential problems with, I can help you with a Conwed® Sorbent solution.

You may also have experienced the slippery, hazardous conditions that develop as chemical and oil spills spread to walkways and driveways. Conwed® Sorbents offer greater control over those situations than almost any other material.

Sorbent materials from Conwed® also allow you to respond effectively to emergency situations. They are easily handled and immediately begin absorbing up to 26 times their weight in oil and chemicals.

The brochure I've enclosed with this letter gives the message "soak up leaks and spills...fast, as they occur". The Conwed® Sorbent products described in the literature are preventative maintenance kinds of materials that can save you time and money by reducing expensive clean up operations after, and during, the spill.

Dear Sir:

↓
The Boons of Gold Mine Production
Bust
September 21, 1987

M CHEMICAL COMPANY, INC.
15324 So. Broadway • Gardena, California 90248

February 1984

78 SE Claims and State Prospecting Permit No. 83801

Lease-option Terms and Conditions

Purchase price: \$10,000,000 or \$5,000,000 plus perpetual NSR or equivalent royalty commencing on initial date of production in the amount of 4% on Federal lands and 2% on State lands. All payments, including production royalties, apply towards the purchase price. Payments, toward the purchase price must be structured as capital gains, not advance royalties or rentals. If either of the above alternative purchase prices are acceptable to the optionees, the owners require no term to the agreement; if not acceptable and the optionees offer a reduced price, the owners insist on a 5 year term to the agreement.

Payment Schedule

(Minimum advance royalties)

<u>Year</u>	<u>Amount</u>
1	\$6,000 in advance for the first 6 months. \$7,500 in advance for the second 6 months.
2	\$18,000 in advance.
3	\$21,000 in advance.
4 and beyond	\$24,000 in advance.

Annual labor must be performed by optionee if the claims are held beyond Feb. 1 of any year. Labor must be physical labor (dozing, drilling, mining, etc.) on the federal claims, and must be at least \$7,800 per year.

For the state prospecting permit, annual assessment labor is \$3,200 per year for the period ending March 16, 1984 and \$6,400 per year for the period ending March 16, 1987. The annual rental for the period March 16, 1984 - March 16, 1987 is \$320. If option is held beyond 15 September in any given year, these obligations must be assumed by optionees.

Sixty days notice is required before dropping the lease or option.

Area of interest: There will be an area of interest extending one mile from the exterior boundary of the claim/prospecting permit block. Any claims staked by either party or prospecting permits acquired shall be subject to the terms of the agreement.

Data: All factual data acquired and developed by the optionees shall be released to the owners when and if the lease is dropped. Information or reports shall be made available to the owners periodically during the term of the lease. The owners will hold these data confidential.

WEDNESDAY

26

SEPT. 1984

AUGUST

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

OCTOBER

S	M	T	W	T	F	S
1	2	3	4	5	6	
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

Answers

7:00
7:30
8:00
8:30
9:00
9:30
10:00
10:30
11:00
11:30
12:00
1:00
1:30
2:00
2:30
3:00
3:30
4:00
4:30
5:00

Amelco, Tex

*Sail answered
Nicks (602) 863-2969*

Left word

Re St. Claims. etc.

Box #1425

7/8/84

TUESDAY

25

SEPT. 1984

SEPTEMBER						
S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

Success

DAY OF THE YEAR

269 -

TUESDAY, SEPT. 25

DAYS REMAINING

- 97

July 1985

F. J. Kary

Sr. Prof. Geol.

Barry

E. B. Rayment

Expl. Mgr.

AMSEL CO.



**AMSELCO
EXPLORATION INC.**

17602 North Black Canyon Highway, Suite 105
Phoenix, Arizona 85023
Telephone: (602) 863-2969

EXPLORATION HEAD OFFICE:
90 West Grove Street, Suite 100
Reno, Nevada 89509
Telephone: (702) 827-2270

July 24, 1985

Mr. Walter E. Heinrichs, Jr.
Heinrichs Exploration Co.
P. O. Box 5964
Tucson, AZ 85703



RE: S E Claims, La Paz County, Arizona

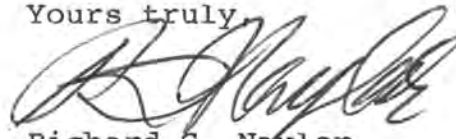
Dear Mr. Heinrichs:

I did receive your December 14th letter, and I apologize for not getting back to you sooner.

I regret to inform you that Amselco has no further interest in the S E Claims.

Thank you for the chance to examine your property.

Yours truly,


Richard G. Naylor
Project Geologist

RGN/jcm

cc: S.J. Kay
T.H. Young
D.W. Blenkarn

*Copies: 7/26/85:
Hirt
Loghry
Wombat.*



HEINRICHS GEOEXPLORATION COMPANY

P.O. BOX 5964, TUCSON, ARIZONA 85703, 806 WEST GRANT ROAD, PHONE (602) 623-0576

July 12, 1985

Amselco Exploration Inc.
17602 North Black Canyon Highway
Suite 105
Phoenix, AZ 85023

Attn: Mr. Richard Naylor
Project Geologist

Re: SE Claims La Paz County, AZ
GEOEX #1425

Dear Mr. Naylor:

Never received response to my letter of 14 December 1984 which was our counter proposal to your proposal letter of 12 December 1984. Now, after recent discussions between Rich Lundin and Jim Loghry, I gather the possibility exists that you may not have ever received my 14 December letter. Accordingly, I am enclosing a duplicate copy herewith. Also, it was suggested that maybe a copy should be sent to Tom Young in Yuma which I am doing since I gather you are often away from your Phoenix office which is confirmed by my few attempts to call you, the latest being earlier this week.

I trust we may expect to hear from someone regarding the status of your interest in our claims in the reasonably near future.

Sincerely,

HEINRICHS, HIRT, LOGHRY, WOMBAT PARTNERSHIP

Walter E. Heinrichs, Jr., Partner

WEH:jh

Encl: Letter dated 14 December 1984

cc: Tom Young, Amselco, P.O. Box 427, Yuma, AZ 85364 w/encl.
Bill Hirt w/o encl.
Jim Loghry w/o encl.
Rich Lundin, Wombat w/o encl.



HEINRICHS GEOEXPLORATION COMPANY

P.O. BOX 5964. TUCSON, ARIZONA 85703. 806 WEST GRANT ROAD. PHONE: (602) 623-0578

December 14, 1984

Amselco Exploration Inc.
17602 North Black Canyon Highway
Suite 105
Phoenix, AZ 85023

Re: SE Claims La Paz County, AZ
GEOEX #1425

Attn: Mr. Richard G. Naylor
Project Geologist

Dear Mr. Naylor:

Thank you for your proposal letter of 12 December 1984 and for sending a copy to Rich Lundin.

I tried to reach you by phone last Wednesday, 5 December, but you were not available and I have been away from my office much of the time the past several days since then.

Because your proposal terms are considerably less than those we originally asked for, we needed time to formulate a definitive response acceptable to us. That has now been accomplished, and follows below. You will note that we have met you more than half way over all.

Term

Six (6) years or as long as property is in production.

Payments

Minimum advance payments toward ultimate purchase price and deductible royalties:

Year 1

Upon signing:

Amount

\$10,000 or \$5,000 (for first 6 months)
(for full year) Then \$6,000 (for second
6 months in advance)

Year 2

\$15,000

in advance

Year 3 and Beyond

\$20,000

in advance (for each year)

Production Royalty

4% NSR toward purchase price or minimum advance payments,
which ever is greater.

Amselco Exploration Inc.
December 14, 1984
Page 2

Purchase price

\$7,000,000, including all advance payments, royalties and minimum work requirements expenditures made prior to exercise of purchase option.

Minimum Annual Work

A minimum expenditure of \$10,000 in direct costs of exploration drilling will be done on the SE claims each year that Amselco is still in possession on 1 February of any year.

Termination

Upon 30 days written notice to owners by Amselco and subject to delivery by Amselco of all factual data acquired by them on the SE Claims while in their possession including, but not limited to such things as drilling logs, core, sample assays, geologic plan maps, land surveys, geophysical work, geochemical work, etc.

Receipt of the Recon. Geochemical results already acquired and which accompanied your letter of December 12, 1984 is acknowledged with our thanks.

Sincerely,
Heinrichs, Hirt, Loghry, Wombat Partnership


Walter E. Heinrichs, Jr., Partner

WEH:jh

cc: W. C. Hirt
J. D. Loghry
R. J. Lundin



**AMSELCO
EXPLORATION INC.**

17602 North Black Canyon Highway, Suite 105
Phoenix, Arizona 85023
Telephone: (602) 863-2969

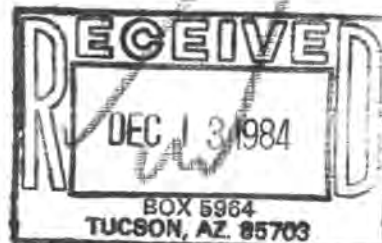
EXPLORATION HEAD OFFICE:
90 West Grove Street, Suite 100
Reno, Nevada 89509
Telephone: (702) 827-2270

December 12, 1984

Mr. Walter E. Heinrichs, Jr.
Heinrichs Geoexploration Co.
P.O. Box 5964
Tucson, Arizona 85703

Re: The SE Claims, La Paz Co., AZ

Dear Mr. Heinrichs:



Amselco is pleased to present the following proposal for the main terms of a Lease/Option Agreement on the SE Claim Group comprising 78 lode claims totaling about 1,330 acres, located in Sections 31, 32, and 33, Township 4N, Range 20W; Sections 5 and 6, Township 4N, Range 20W; and Section 36, Township 4N, Range 21W, about 8 miles west of Quartzsite, Arizona. These terms are subject to confirmation by the owners of the Claim Group and by Senior Management of Amselco Exploration Inc.:

Term

The term of the Agreement shall be for 7 years, and as long thereafter as the property is in production.

Payments

The following payments shall be Minimum Advance Royalties, the total of which shall be deductible from Production Royalties:

<u>Date</u>	<u>Amount</u>
<u>Year 1</u>	
upon signing	\$3,000
6 month anniversary of signing	\$5,000
<u>Year 2</u>	\$10,000 payable in advance
<u>Year 3 and Beyond</u>	\$15,000 per year payable in advance



Mr. Walter E. Heinrichs, Jr.

Page 2.

12/12/84

Production Royalty

Production Royalty shall be 4% NSR, payable after recapture of total Advance Royalties. Total Advance Royalties and Production Royalties are deductible from the purchase price (below).

Purchase Price

The Purchase Price for all rights to the SE Claims shall be \$4,000,000, less total Advance Royalties and Production Royalties paid to date of purchase.

Other

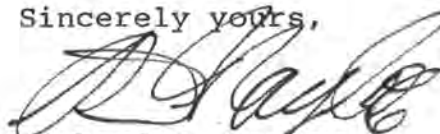
Annual labor will be performed by Amselco if the claims are held beyond February 1st of any year.

The Agreement may be terminated by Amselco upon 30 days notice.

All non-interpretive data resulting from Amselco's work on the property will be released to the owners when and if Amselco terminates the Agreement.

Attached are sample results from the Reconnaissance work which Amselco carried out on the SE Claims; we appreciate the opportunity to take a look at your property. I await your response to this proposal.

Sincerely yours,



Richard G. Naylor
Project Geologist

RGN/gk

cc: Richard J. Lundin, President
Wallaby Enterprises, Inc. (w/encl.)

B.D. Rayment (w/encl.)

S.J. Kay (w/encl.)

D.W. Blenkarn (w/encl.)

12/13/84 Copies " to J.D.L. & W.C.H.

Anselco

12/14/84

J.D.L. & WBL

On signing	\$10,000	{	\$5,000	<u>option period</u>
			6,000	1st 6mo.
				2nd 6mo.

Year 2	\$15,000	2nd yr.
--------	----------	---------

Year 3 & thereafter	20,000	3rd yr. etc.
------------------------	--------	--------------

6 year term \$105,000 \$106,000

\$7,000,000 end price

Minimum annual work requirements of \$10,000 in direct costs of exploration drilling will be performed by Anselco on the SE claims, which work will apply to annual labor.



AMSELCO
EXPLORATION INC.
17602 North Black Canyon Highway
Suite 105
Phoenix, Arizona 85023

phx 892204 - Amseco
pup 842010 - Skyline
PROJECT NAME SWPM 09550 OFFICE PHOENIX
PROPERTY SE CLAIMS RECON GEOLOGIST R. KNOWLING
No. R- 8513
AS, Hg 11/2

ROCK GEOCHEM.

CONTINUED ON R-8514

SAMPLE DESCRIPTION	SAMPLE LOCATION	NO.	ASSAY RESULTS IN		
			Au	Ag	A>
SE-1 5x5 PANEL, AS LBS QZ-SS SCHIST; PY, LIM, TE JAR, SILIC		1	4001	1009	10 .09
SE-2 " " AS ABOVE, BUT LESS SER, LIM		2	4001	1009	10 .03
SE-3 " " SILICIFIED SCHIST, W/ HEM, LIM ON FRAX. SER		3	1001	1020	1 .05
SE-4 " " AS ABOVE; W/ PY, LESS FROX		4	1001	1045	1 .09
SE-5 " " QZ-SS SCHIST, SILICIFIED, W/ QZ STRENGTH, FROX		5	4001	1012	1 .07
SE-6 " " GREENISH SCHIST (CHL DUSSEM), THIN FROX ON FRAX (LOW ANGLE FLT ZONE)		6	4001	1009	10 .08
CONTROL		7	034	1009	
SE-7 " " SILICIFIED ZONE W/ STRONG FROX, QZ UNITS, ALUNITE		8	1013	1059	130 .03
SE-8 " " THINLY FOLIATED SCHIST, W/ MOD SER, W/ FROX DUSSEM		9	4001	1014	110 .03
SE-9 " " AS ABOVE, W/ ABBT LIM, JAR, ALUNITE		10	1	1009	30 .06
SE-10 " " AS ABOVE BUT MORE W/ABT: MOD ARGILLIC, MORE ALUNITE		11	1	1009	20 .04
SE-11 " " BLEACHED SCHIST, STRONG SER, W/ FROX, ALUNITE		12	4001	1009	20 .03
SE-12 " " SILICIFIED ZONE, W/ DUSSEM PY, PARTLY OXIDIZED		13	057	135	110 .10
CONTROL		14	024	1053	
SE-13 " " FRESHER, DARKER SCHIST, W/ FROX ON FRAX, PY		15	4001	1024	40 .03
SE-14 " " BLEACHED ZONE, W/ MOD FROX, TE ALUNITE, TOURMALINE		16	1001	1009	20 .02
SE-15 " " AS ABOVE, BUT SILICIFIED, W/ " " "		17	4001	1010	20 .06
SE-16 " " BLEACHED ZONE, ARGILLIZED, W/ MOD JAROSITE		18	1	1009	20 .05
SE-17 " " SHEARED SCHIST W/ QZ UNITS, FROX, PY SITES		19	1	1	110 .08
SE-18 " " TAIN SCHIST W/ ALUNITE UNITS, W/ FROX, JAR, ARGILL		20	1	20	20 .07
CONTROL		21	1	1	
SE-19 " " AS ABOVE, W/ MOD TO STRONG LIM; PY MINDS		22	1	20	20 .05
SE-20 " " SCHIST W/ LOW ANGLE STRIKE, QZ UNITS, JAR, ALUNITE		23	1	110	107 .07
SE-21 " " F.G.R. SCHIST: DUSSEM FROX, QZ-JAR UNITS		24	1	1009	10 .03
SE-22 " " FRESHER SCHIST, SHEARED, GOULEY-ARGILLIC		25	1	1010	40 .03

STATE AZ COUNTY LA PAZ

SPECIAL INSTRUCTIONS Am, Ag AMSELCO LAB

LAB NAME Amseco, Skyline ASSAY METHOD fa/aa

SHIPPED FROM FIELD OCT 12, 1984 VIA DELIVERED RECEIVED OCT 15 PREPARED OCT 16

SHIPPED TO LAB OCT 17 VIA up REPORTED OCT 29



AMSELCO
EXPLORATION INC.
17602 North Black Canyon Highway
Suite 105
Phoenix, Arizona 85023

phy 842207 - Hmselco
prep 842208 - skyline

ROCK GEOCHEM.

No. R- 8514

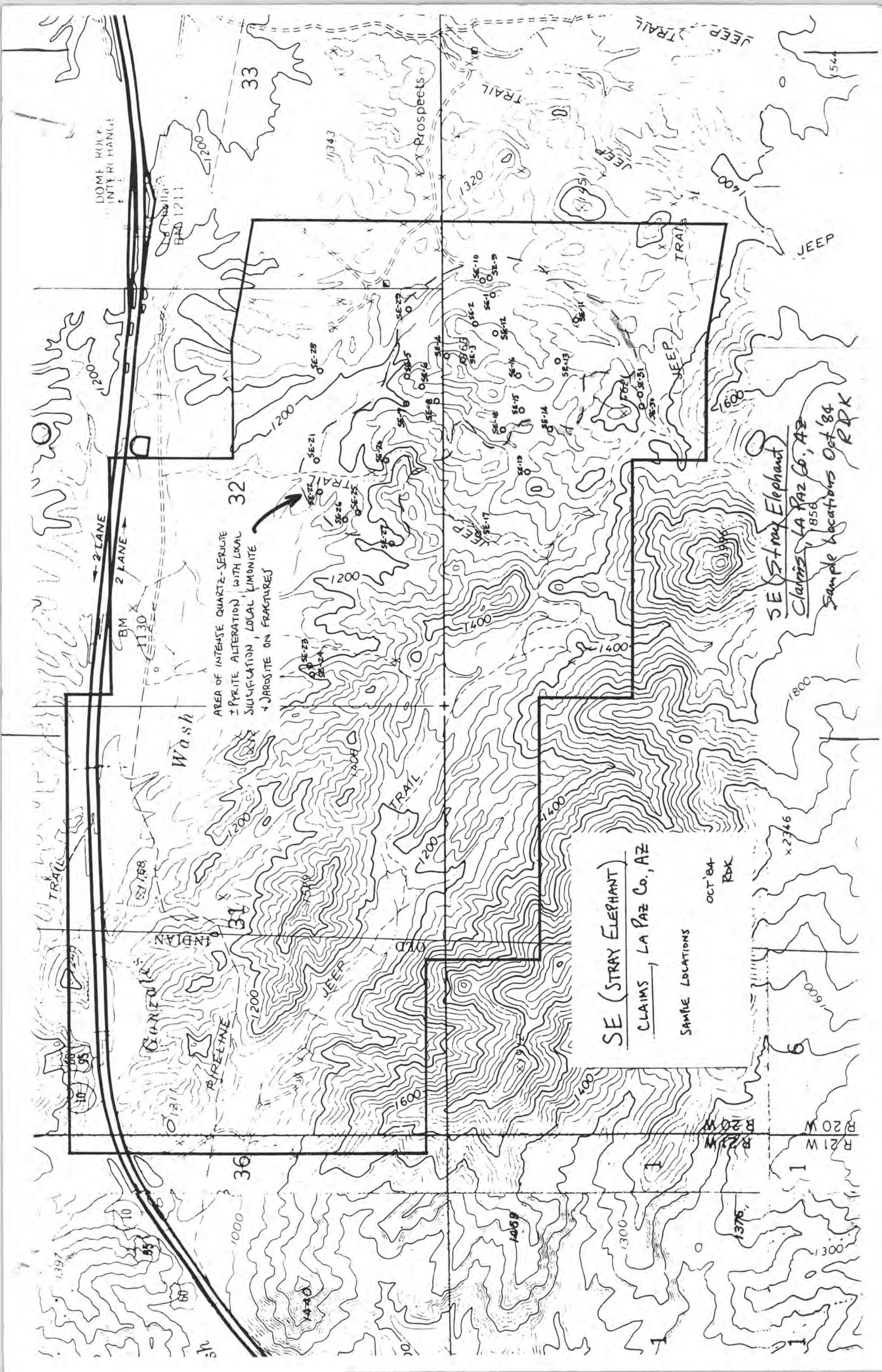
AS, Hg

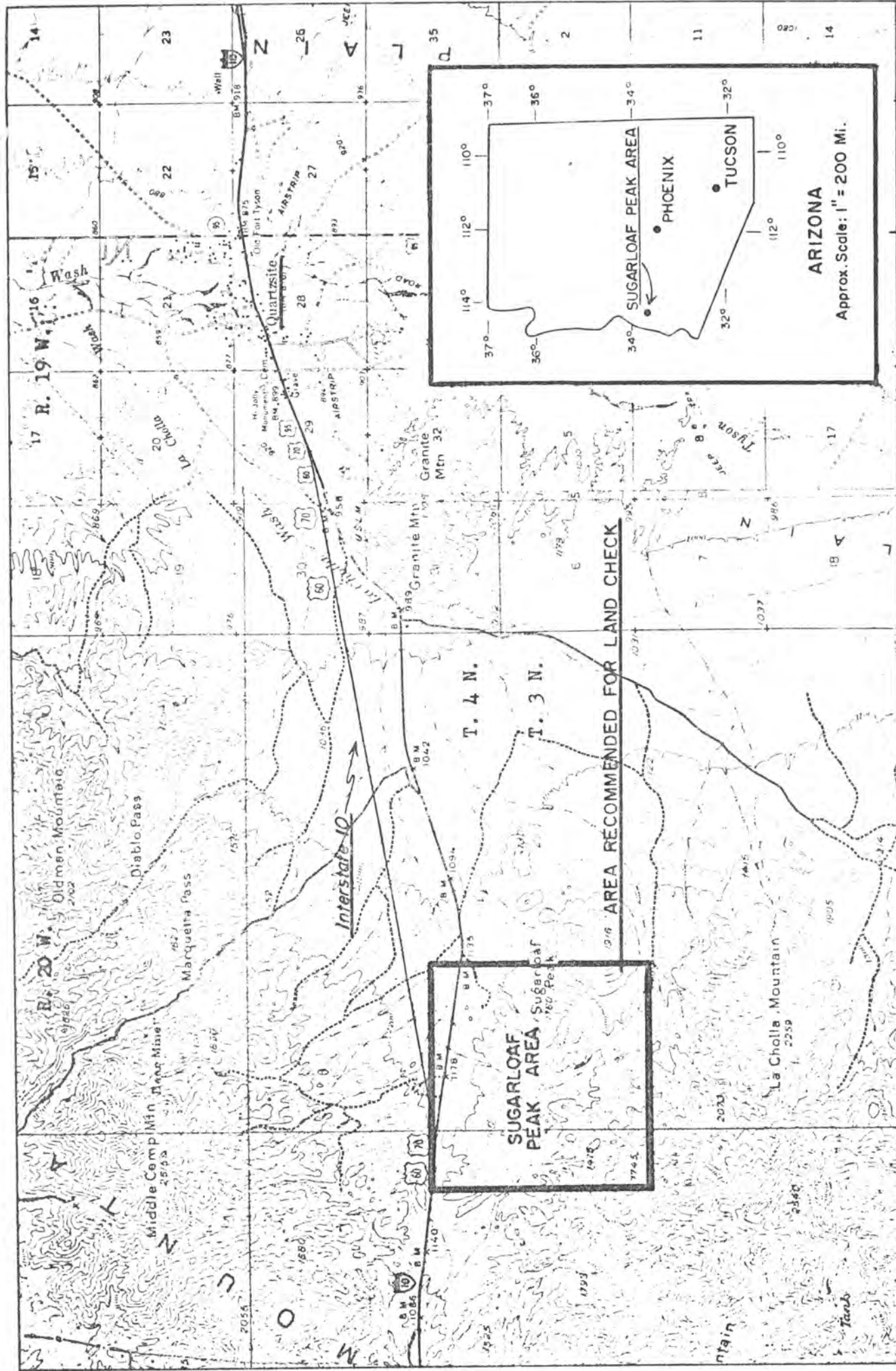
PROJECT NAME SWPM 09580 OFFICE PHOENIX

PROPERTY SE CLAIMS RECON GEOLOGIST R. KNUTTING

SAMPLE DESCRIPTION	SAMPLE LOCATION	NO.	ASSAY RESULTS IN			
			As	As	As	Hg
SE-23 5x5 PANEL, AD 165 FET ZONE, STRONG BAX, COMBET, STRONG THEM	PROSPECT PIT	1	0.001	0.009	0.10	0.13
SE-24 " " AS ABOVE W/ STRONG SER, DUTEM PY	" (UPPER)	2	0.055	0.30	0.10	0.13
SE-25 " " GTSCHIST, SILICED, MOD FEX, PY, SER. V.G. (3)	"	3	0.009	0.10	0.03	0.03
SE-26 " " SCHIST W/ STRONG FEX, TO JAR, DIZ STRONGERS	"	4	0.012	0.10	0.05	0.05
SE-27 " " TAN SCHIST, W/ DUTEM FEX, PY; FRESHER	"	5	0.009	0.10	0.02	0.02
SE-28 " " WELLY SILICED REDDISH FEX, SCHIST, NARROW BAX, ZHET	"	6	0.001	0.09	0.20	0.03
CONTROL	"	7	0.054	0.13		
SE-29 " " SCHIST, W/ STRONG JAR, SPOTTY LIM	"	8	0.001	0.17	0.04	0.04
SE-30 " " " IN LEU ANGLE PIT, JAR ON FEX, TOURMALINE	"	9	0.001	0.009	0.02	0.02
SE-31 " " AS ABOVE W/ DIZ VINTS, ALUMINITE VINTS	"	10	0.001	0.009	0.02	0.02
END OF SAMPLING		11				
		12				
		13				
		14				
		15				
		16				
		17				
		18				
		19				
		20				
		21				
		22				
		23				
		24				
		25				

STATE AZ COUNTY LA PAZ
SPECIAL INSTRUCTIONS Au, Ag AMSELCO LAB
TO SKYLINE FOR Hg, AS
LAB NAME Amseco, Skyline ASSAY METHOD Se/a
SHIPPED FROM FIELD OCT 12, 1984 VIA DELIVERED RECEIVED OCT 15, 1984 PREPARED 10/16
SHIPPED TO LAB 10/17 VIA UPS REPORTED 10/29





SUGARLOAF PEAK AREA, YUMA COUNTY, ARIZONA

1:62 500

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PRELIMINARY GEOLOGIC MAP OF THE OLAF KNOLLS QUADRANGLE,
MOHAVE COUNTY, ARIZONA

By

I. Lucchitta and S. Beard

Open-File Report 81-1322

1981

This report is preliminary and has not
been edited or reviewed for conformity
with U.S. Geological Survey standards
and nomenclature.

GEOLOGIC SETTING

This map is part of a regional study of the Grand Wash Fault. Geologic mapping was carried out by Lucchitta in 1973, and by Lucchitta and Beard in 1981.

The Grand Wash fault forms the boundary between the Colorado Plateau and the Basin and Range Province to the west. The fault is a high-angle normal fault that trends approximately north and is down to the west. Along most of its trace, the fault is buried by the Tertiary Muddy Creek Formation and other upper Cenozoic deposits. In this quadrangle, however, the fault is composed of a complex system of subparallel breaks, many of which are excellently exposed along the Grand Wash Cliffs. Typically, these breaks are of small displacement and up to the west. Where the fault system is widest and best developed, the up-to-the-west faults are associated with westerly tilts of 15-30° in the Paleozoic beds. The faulting and tilting combine to maintain structural elevation as one goes west. Substantial net down-to-the-west displacement is attained only at the main breaks. The first of these is composed of en-echelon segments located at or near the base of the Grand Wash Cliffs, and typically drops the uppermost Paleozoic units (Kaibab, Toroweap and Hermit Formations, and possibly part of the Esplanade Sandstone) against Mississippian rocks. One or more additional breaks are located west of the Grand Wash Cliffs and are buried by basin fill and other upper Cenozoic deposits. Most of the displacement that formed the basin occurred along these buried faults.

The map area is in a region where stratigraphic units change and thicken rapidly westward from the platform sequence of the Grand Canyon to the shelf sequence of the eastern Great Basin. The changes in stratigraphy, which are matched by changes in nomenclature, are not yet studied adequately. To avoid potential conflicts and to facilitate structural mapping, which is the main purpose of this study, we have simplified parts of the stratigraphic column into map units with distinctive lithologic and outcrop characteristics.

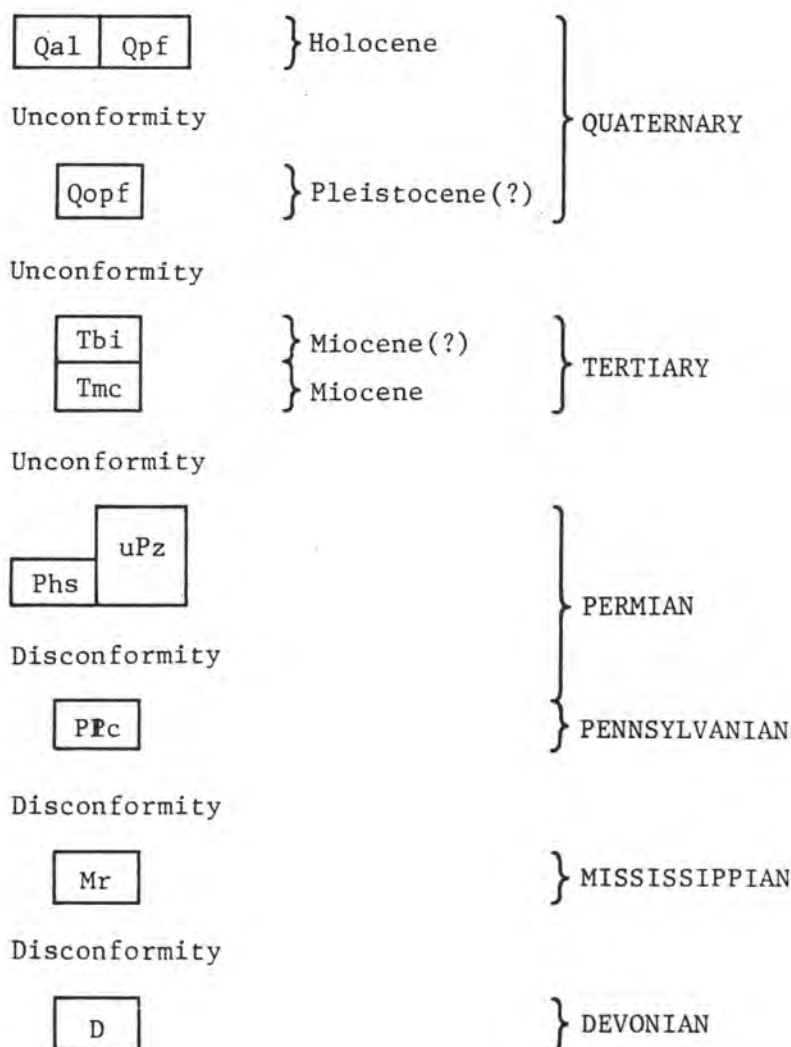
In the classic Grand Canyon section, a thick sequence of redbeds occupies the interval between the Redwall Limestone and the Coconino Sandstone. The redbeds are subdivided into the Supai Group of McKee (1975) and the overlying Hermit Shale. Both are composed of hematitic sandstone, siltstone and shale in various proportions. To the west, the Supai Group becomes increasingly calcareous. At the Grand Wash Cliffs, in rocks equivalent to the Supai Group of McKee, 1975 are composed of well bedded limestone with interbedded reddish cross-bedded sandstone and red shale. Only the upper part of the uppermost unit of the Supai, the Esplanade Sandstone remains carbonate-free. McNair (1951) referred to the underlying calcareous units as the Pennsylvanian Callville Limestone and the Permian Pakoon Limestone. Although disconformities separate many of these units, the main break in lithology and weathering characteristics occurs between the cliff-forming limestones and the overlying slope-forming redbeds of the upper Esplanade and Hermit. We therefore have mapped the former as the Permian and Pennsylvanian Pakoon and Callville Limestones undivided and the latter as the Permian Hermit and Esplanade Formations undivided. The Callville as mapped thus includes rocks equivalent to all the Supai Group of the Grand Canyon except the upper part of the Esplanade Sandstone. A more extensive discussion of the nomenclature and correlations of these rocks is given by G. H. Billingsley (1978).

The Devonian as mapped includes the interval between the unclassified dolomites of McKee and Resser (1945), also called undifferentiated dolomites by Billingsley (1978), and the Redwall Limestone. These rocks are equivalent to the Middle Devonian Temple Butte Formation of the Grand Canyon and the Muddy Peak Formation of the Lake Mead area.

The Muddy Creek Formation is a term applied by Longwell (1936) and Lucchitta (1966) to Miocene interior-basin deposits filling the Grand Wash Trough, even though these rocks are not physically continuous with beds in the type locality (Muddy Valley of Nevada) which were called "Muddy Creek beds" by Stock (1921).

Several inactive copper prospects and mines occur within the quadrangle. In the surface workings, mineralization occurs in cross bedded sandstone beds of the Callville Limestone (*sensu lato*). Structural control of mineralization appears likely. The presence of basaltic dikes in the vicinity also suggests the possibility of hydrothermal mineralization.

CORRELATION OF MAP UNITS



DESCRIPTION OF MAP UNITS

[Areas marked with queried unit symbols have not been field checked]

- Qa1 ALLUVIUM (HOLOCENE)--Silt, sand, gravel, cobbles and boulders in active washes. Consists of angular to subangular, poorly sorted, unconsolidated material of local derivation. Thickness unknown; probably less than 2 m. Grade into, and locally includes pediment gravels
- Qpf **PIEDMONT-SLOPE DEPOSITS (HOLOCENE AND PLEISTOCENE)**
Pediment and fan gravels (Holocene)--Silt, sand, gravel, cobbles and boulders on active pediments and fans. Consists of angular, poorly sorted, unconsolidated material of local derivation. Thickness unknown; probably less than a few meters. Pediment and fan gravels grade laterally into each others. Both grade laterally into, and locally include recent alluvium
- Qopf Older pediment and fan gravels (Pleistocene?)--Silt, sand, gravel, cobbles and boulders on gently sloping surfaces that are at various elevations above modern washes, by which they are being dissected. Consists of angular, poorly sorted, unconsolidated material of local derivation. Thickness generally less than 10 m. Pediment and fan gravels grade laterally into each other
- Tb1 **BASALTIC DIKES (MIOCENE)**--Porphyritic basaltic dikes, less than 1 m wide. Typically very altered and weathered. The matrix is relatively fresh in a few samples, and is finely crystalline with visible plagioclase and iddingsitized olivine groundmass crystals. The phenocrysts are altered, comprise 5-30 percent of the total rocks, range in size from less than 1 mm to 5 mm, and are composed of iddingsitized olivine, clinopyroxene(?), and probable plagioclase
- Tmc **MUDDY CREEK FORMATION (MIOCENE)**--Claystone, siltstone, sandstone, pebble to boulder fanglomerate, freshwater limestone, dolomite and gypsum, deposited under conditions of interior drainage in the Grand Wash basin, which was formed by basin-range faulting. The various facies grade into each other both laterally and vertically. In quadrangle, unit consists chiefly of well- to poorly bedded, moderately consolidated sandstone and fanglomerate containing subangular to subrounded pebbles to boulders of Paleozoic rocks derived from the east. The fanglomerate locally fills steep and narrow canyons and cuts into the Grand Wash Cliffs. Unit is at least 600 m, and probably several thousand meters thick
- uPz **(PERMIAN) ROCKS, UNDIVIDED**--Includes all or part of the Kaibab Limestone, Toroweap Formation, Coconino Sandstone, Hermit Shale, and Esplanade Sandstone. Present as intricately broken downfaulted wedges

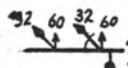



- Phs HERMIT SHALE AND UPPER PART OF ESPLANADE SANDSTONE OF SUPAI GROUP UNDIVIDED (PERMIAN)--Redbed sequence that includes the Hermit Shale and that part of the Esplanade Sandstone of White (1922) that overlies the highest carbonate beds. The Hermit comprises moderately to poorly indurated deep-red siltstone and light-red thin-bedded sandstone. Upper part of the Esplanade includes moderately indurated, brick-red to white, fine-grained, cross stratified, cliff-forming sandstone as well as poorly indurated deep-red gypsiferous shale
- PPc PAKOON LIMESTONE OF MCNAIR, 1951 (PERMIAN) AND CALLVILLE LIMESTONE (PENNSYLVANIAN) UNDIFFERENTIATED--Predominantly light-gray, fossiliferous, locally cherty, well-bedded limestone that forms ledges and ledgy slopes, with interbeds of purplish-red cliff-forming cross bedded sandstone and red slope-forming shale. Thickness about 300 m
- Mr REDWALL LIMESTONE (MISSISSIPPIAN)--Light-gray, aphanitic to crystalline, fossiliferous, mostly thick bedded limestone, cherty in lower part. Forms massive, conspicuous cliff. Thickness 180-200 m
- D DEVONIAN ROCKS--Medium- to dark-gray, medium-grained, medium- to thick-bedded, typically fetid dolomite, limestone, and dolomitic sandstone. Upper part forms alternating ledge and slope; lower part forms color banded cliff. Thickness 140-200 m

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- Longwell, C. R., 1936 Geology of the Boulder Reservoir flow, Arizona-Nevada: Geological Society of America Bulletin, v. 47, p. 1393-1476.
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- McKee, E. D., and Resser, C. E., 1945, Cambrian history of the Grand Canyon region: Carnegie Institute of Washington Publication 563, pt. II, p. 171-232.
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White, D., 1929, Flora of the Hermit Shale, Grand Canyon, Arizona: Carnegie
Institute of Washington Publication 405, 219 p.

EXPLANATION OF MAP SYMBOLS

- CONTACT—Dashed where approximate
-  ? FAULT—Showing dip, direction and plunge of slickensides, or rake of
slickensides. Bar and ball on downthrown side. Dashed where
approximately located or probable, queried where doubtful, dotted
where concealed.
- STRIKE AND DIP OF BEDS
-  Inclined
-  Horizontal
-  —mb— MARKER BED

US Sprint
Communications
Company

P. O. Box 11315
Kansas City, MO 64112-0315



August 29, 1986



Heinrichs Geoexploration Co.
Box 5964
Tucson, AZ 85703

Mining Claim SE#23
#AMC 192059

RE: US Sprint Fiber Optic Cable

Dear Sir:

US Sprint plans to construct a fiber optic telecommunication system extending from El Paso, Texas to Los Angeles, California. I have enclosed a brochure to better explain the scope of the project.

On August 7, 1986 the United States Department of Interior, through the Bureau of Land Management, issued a Right-of-Way Grant through Public Lands to US Sprint for the purpose of constructing this fiber optic system. In accordance with BLM instructions, it is the responsibility of US Sprint to identify all mining claims that lie within the limits of the Right-of-Way Grant, and to notify the claimants of our fiber optic cable location.

Enclosed please find a sketch showing the outline of your claim and the approximate location of our fiber optic cable. We will take the necessary precautions to avoid any mining operations and equipment and no material will be removed from the premises.

If you have any questions or need any additional information, please feel free to contact me at our Kansas City office at 913-676-3158.

Sincerely,

A handwritten signature in cursive script that reads "James H. Lindhome".

James H. Lindhome
Network Route Development

JHL:b1

TOWNSHIP _____
RANGE _____

TOWNSHIP _____
RANGE _____

TOWNSHIP _____
RANGE _____

TOWNSHIP _____
RANGE _____



TOWNSHIP 4N

RANGE 21W

COUNTY OR PARISH: La Paz

STATE Arizona

Card 22 page 5797, 5798, 5798

Serial No 220947a Muleshoe #11 Lead File 220942 North of I-10

220948a " #12 " " " " " "

220953LD Farrer #1 " " " " " "

220954LD " #2 " " " " " "

220955LD " #3 " " " " " "

220960LD SH #2 " " " " " "

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247327LD " #6 " " " " " "

247328LD " #7 " " " " " "

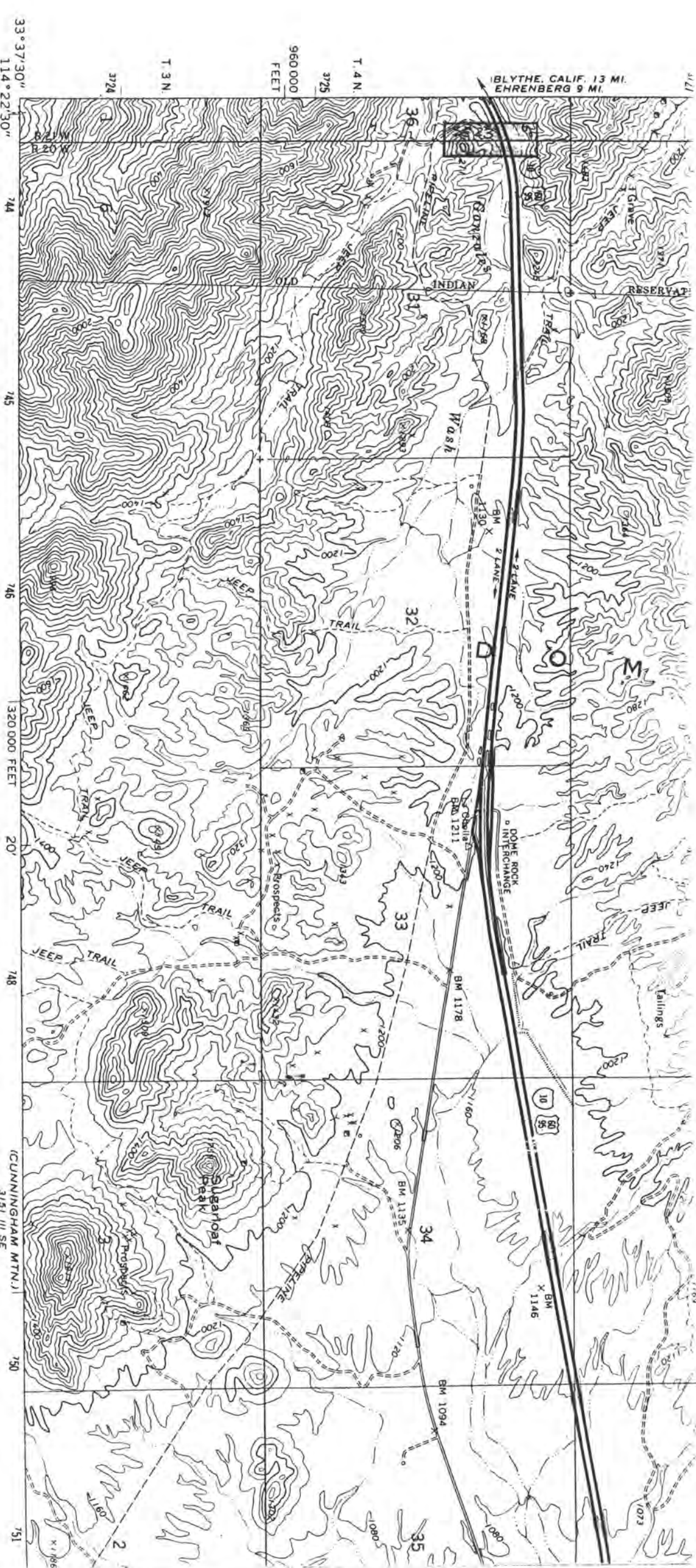
247329LD " #8 " " " " " "

247330LD " #10 " " " " " "

105436LD SE #23 " " 105414 In Area

220958 Sydalg " " 220942

247324 Slick #4 " " 247321



33°37'30" N
114°22'30" W

Mapped, edited, and published by the Geological Survey
Control by USGS and USC&GS

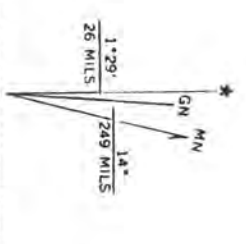
Topography by photogrammetric methods from aerial
photographs taken 1970. Field checked 1971

Projection and 10,000-foot grid ticks: Arizona coordinate
system, west zone (transverse Mercator)

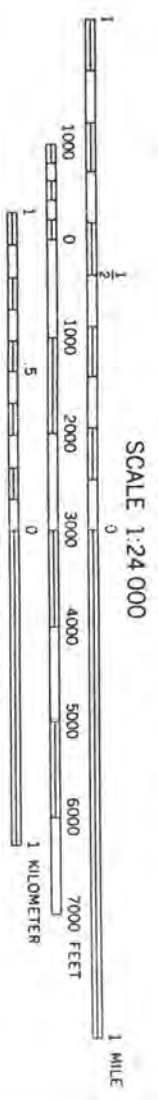
1000-meter Universal Transverse Mercator grid ticks,
zone 11, shown in blue. 1927 North American datum

To place on the predicted North American Datum 1983
move the projection lines 2 meters south and
72 meters east as shown by dashed corner ticks

Where omitted, land lines have not been established
and may be private inholdings within the boundaries of
National or State reservations shown on this map



UTM GRID AND 1971 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET



CONTOUR INTERVAL 40 FEET
DOTTED LINES REPRESENT 20-FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

I hereby certify that the within instrument was filed and recorded

Fee No.:

ss. 1168 1980 JUN 16 PM 29 27 at 1168 M.

14759

Page 687-688 at the request of

Heinrichs Geoexploration Co.

MICROFILMED

When recorded mail to:

HEINRICHS

GEOEXPLORATION CO.

Box 5964 Tucson, Arizona 85703

Phone: (602) 623-0578

Cable: GEOEX



Witness my hand and official seal.

GLENYS E. SCHMITT

County Recorder

Fee: \$

By

Charles J. Dilling
Deputy Recorder

30

MAP OF MINING CLAIM LOCATION

1. ☒ Location ☐ Amendment ☐ Relocation
2. ☐ Placer ☒ Lode ☐ Millsite ☐ Tunnelsite

3. The name of the claim is SE # 23

The name of the locator is Heinrichs GEOEXploration Co.

4. The location of the claim is in Section 31, Township 4N, Range 20W

G&SRB&M, Middle Camp Mining District, Yuma County, Arizona.

The SE corner of the claim is 5900 feet in a SE direction

to a survey monument or permanent natural object described as

SE corner of section 31

5. The type of Location monument is 2X2 wooden stake

The type of corner and end monuments are 2X2 wooden stakes

6. The bearing and distance between the corners of the claim are beginning at the SE

corner of the claim, 600 feet in a westerly direction to the SW corner,

then 1500 feet in a northerly direction to the NW corner, then

600 feet in a easterly direction to the NE corner, then 1500

feet in a southerly direction to the point of beginning.

7. If amending, relocating or previously recorded, this claim was recorded in Docket _____, Page

_____, Mining District, _____ County, Arizona.

Date 4/5/80

William C. Hirt

William C. Hirt, agent
Signature

ARIZONA STATE OFFICE
BU. LAND MANAGEMENT

JUN 30 1980

MAP

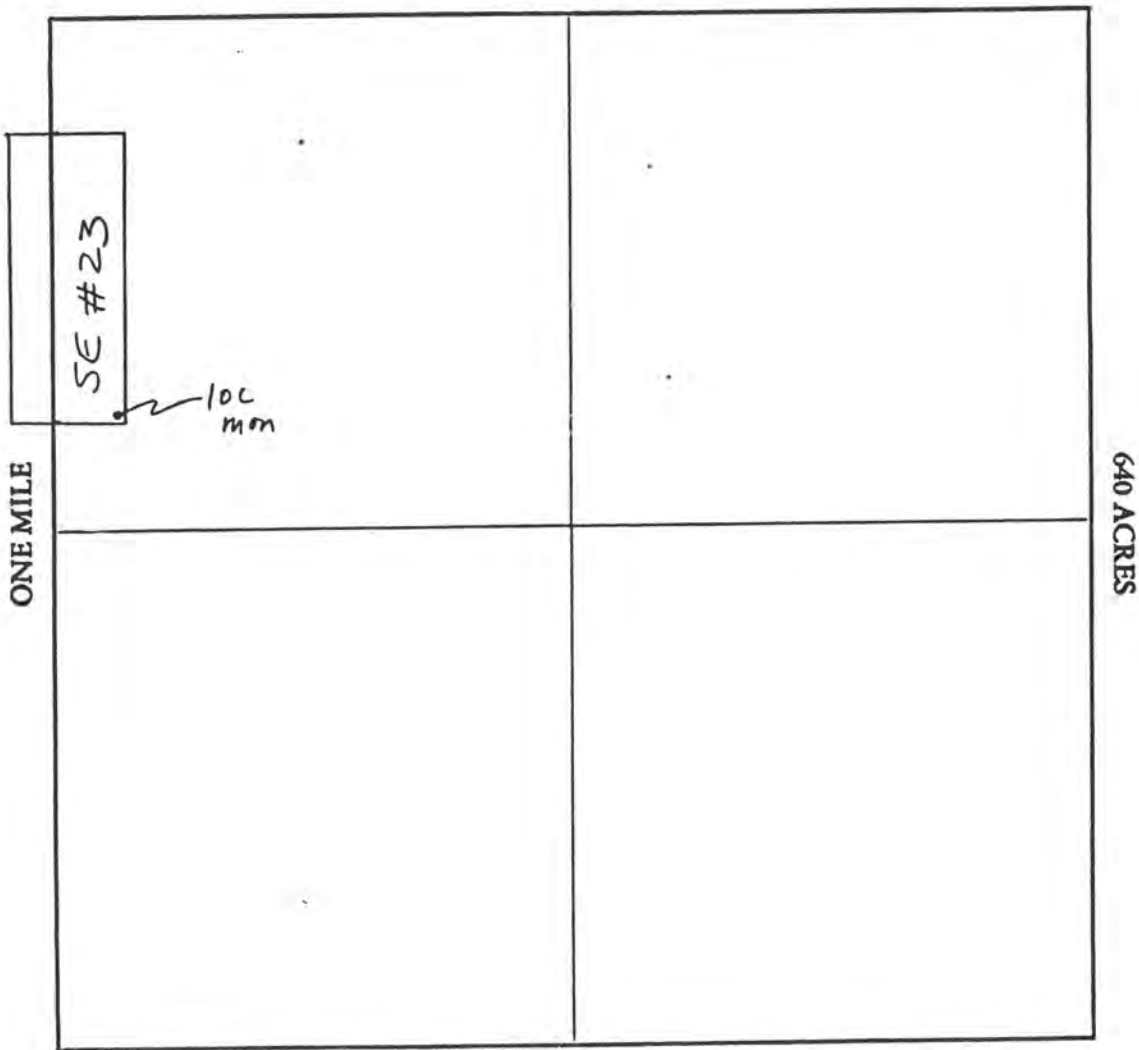
7:45 A.M.
PHOENIX, ARIZONA

One inch = One thousand feet

North Arrow



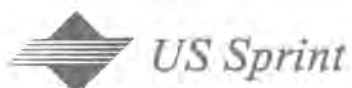
ONE MILE



Section 31 Range 20W Township 4N, G&SRB&M

Date 4/3/80

William C. Hitt
Signature



August 29, 1986

Heinrichs Geoexploration Co.,
Box 5964
Tucson, AZ 85703

Mining Claims SE#1
#AMC 105414
SE#12
#AMC 105425
SE#32
#AMC 105445

RE: US Sprint Fiber Optic Cable

Dear Sir:

US Sprint plans to construct a fiber optic telecommunication system extending from El Paso, Texas to Los Angeles, California. I have enclosed a brochure to better explain the scope of the project.

On August 7, 1986 the United States Department of Interior, through the Bureau of Land Management, issued a Right-of-Way Grant through Public Lands to US Sprint for the purpose of constructing this fiber optic system. In accordance with BLM instructions, it is the responsibility of US Sprint to identify all mining claims that lie within the limits of the Right-of-Way Grant, and to notify the claimants of our fiber optic cable location.

Enclosed please find a sketch showing the outline of your claim and the approximate location of our fiber optic cable. We will take the necessary precautions to avoid any mining operations and equipment and no material will be removed from the premises.

If you have any questions or need any additional information, please feel free to contact me at our Kansas City office at 913-676-3158.

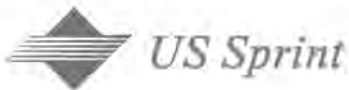
Sincerely,

James H. Lindhome
Network Route Development

JHL:b1

US Sprint
Communications
Company

P. O. Box 11315
Kansas City, MO 64112-0315



Mining Claims	SE#23	#AMC 105436
	SE#24	#AMC 105437
	SE#25	#AMC 105438
	SE#26	#AMC 105439
	SE#27	#AMC 105440
	SE#28	#AMC 105441
	SE#29	#AMC 105442
	SE#30	#AMC 105443
	SE#31	#AMC 105444

August 29, 1986

Heinrichs Geoexploration Co.
Box 5964
Tucson, AZ 85703

RE: US Sprint Fiber Optic Cable

Dear Sir:

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Enclosed please find a sketch showing the outline of your claim and the approximate location of our fiber optic cable. We will take the necessary precautions to avoid any mining operations and equipment and no material will be removed from the premises.

If you have any questions or need any additional information, please feel free to contact me at our Kansas City office at 913-676-3158.

Sincerely,

A handwritten signature in cursive script, reading "James H. Lindhome".

James H. Lindhome
Network Route Development

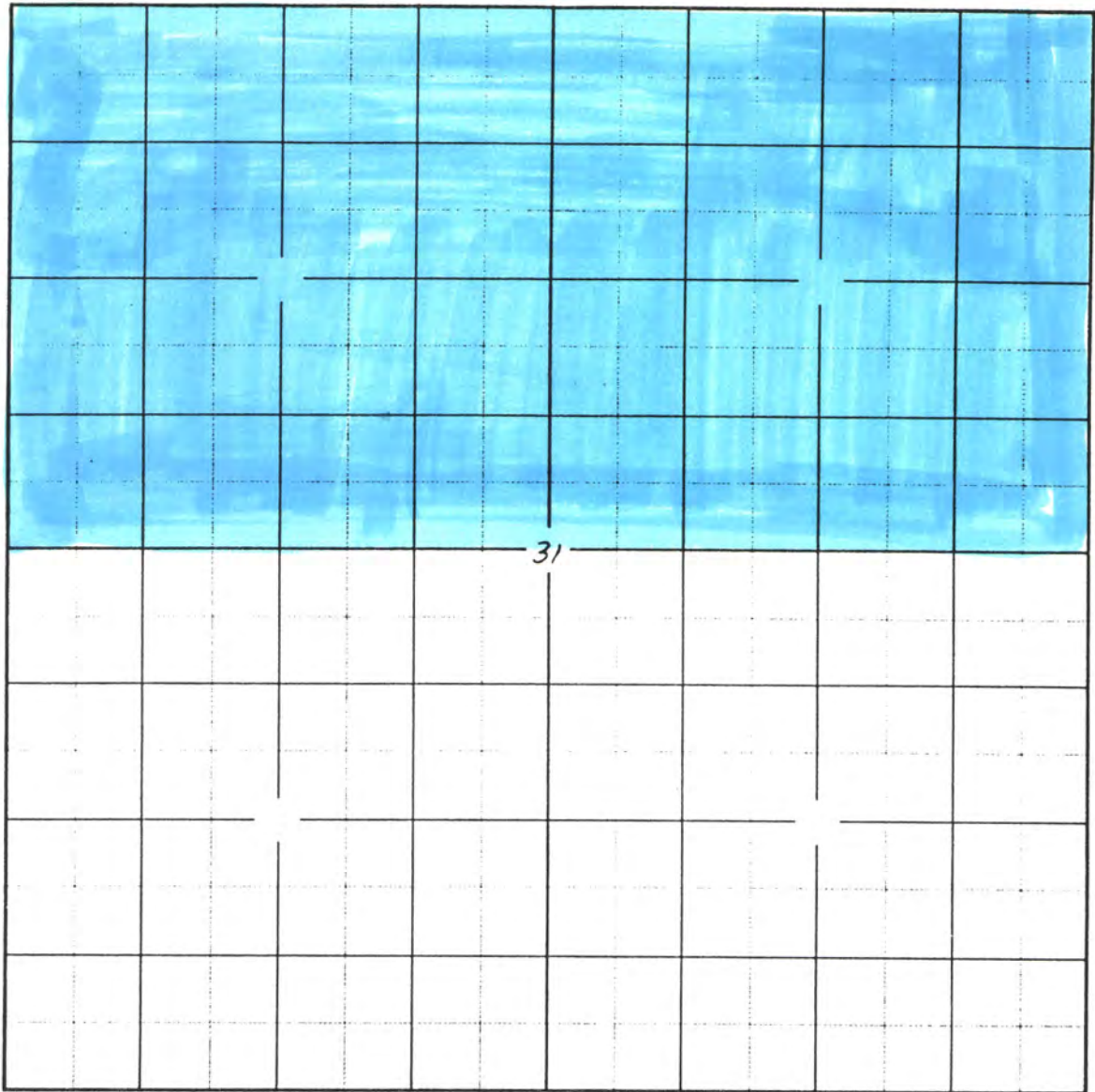
JHL:bl

TOWNSHIP _____
RANGE _____

TOWNSHIP _____
RANGE _____

TOWNSHIP _____
RANGE _____

TOWNSHIP _____
RANGE _____



TOWNSHIP 4N

RANGE 20W

COUNTY OR PARISH: La Paz

STATE Arizona

Card 21 Pg 5574, 5575

Lead file 105414

Ser No 105436 LD SE 23	"	In area of cable
105437 LD SE 24	"	" "
105438 LD SE 25	"	" "
105439 LD SE 26	"	" "
105440 LD SE 27	"	" "
105446 LD SE 33	"	Out of area
105447 LD SE 34	"	"
105448 LD SE 35	"	"
105449 LD SE 36	"	"
105450 LD SE 37	"	"
124540 PL Reservation #1	124532	Closed
161262 PL Last Nugget Pliers	?	out of Area
163429 LD Black Bear Ext	163429	in Area
206026 LD Vortex #5	206022	abandoned

TOWNSHIP _____
RANGE _____

TOWNSHIP _____
RANGE _____

TOWNSHIP _____
RANGE _____

TOWNSHIP _____
RANGE _____

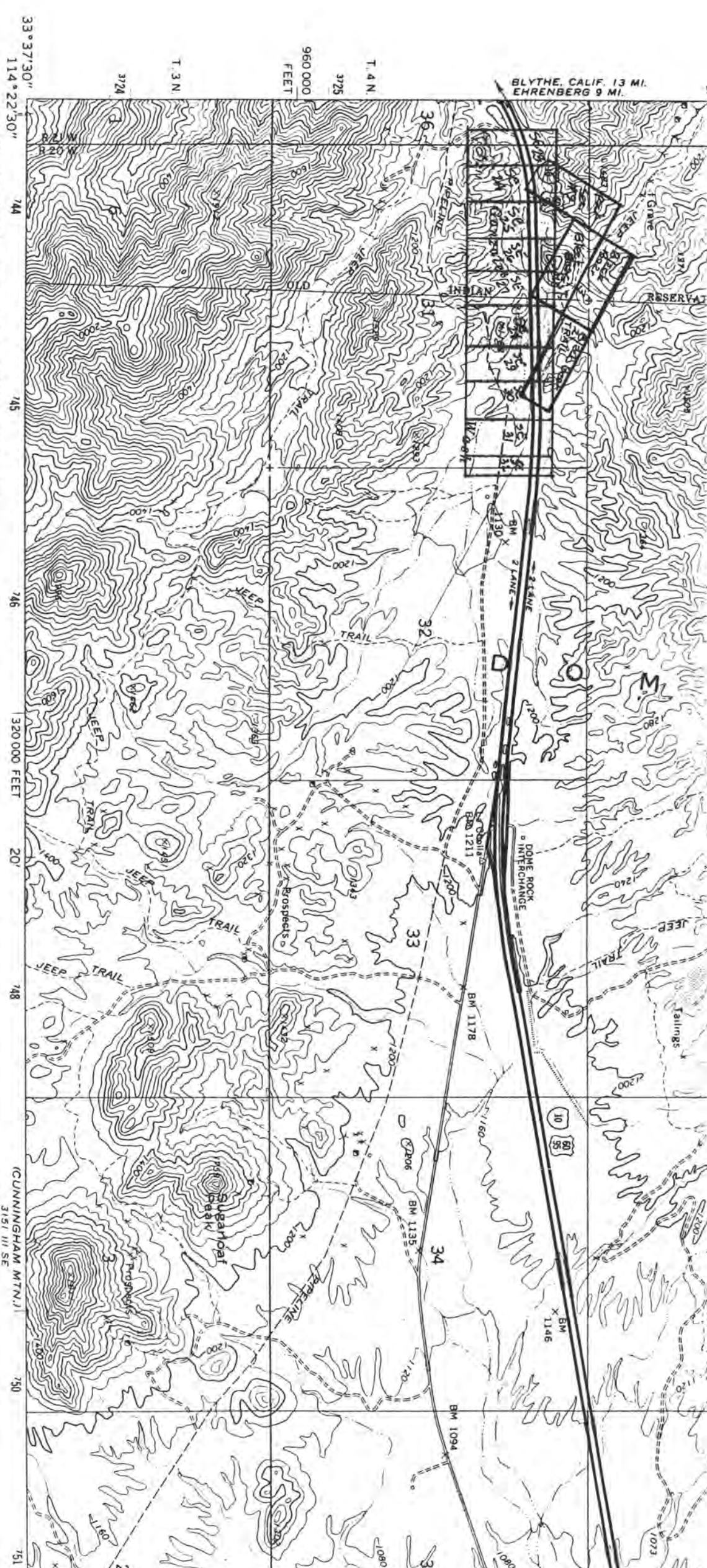
				31			

TOWNSHIP 4N

RANGE 20W

COUNTY OR PARISH: _____ STATE _____

206027 LD	Vortex #6	206022	Abandoned
206028 LD	" #7	"	✓
206029 LD	" #8	"	✓
206030 LD	" #9	"	✓
105441 LD	SE No 28	105414	Area of Cible
105442 LD	" 29	"	"
105443 LD	" 30	"	"
105444 LD	" 31	"	"
105445 LD	" 32	"	"
102348		102348	
163429 LD	Black Bear #2	163429	" ✓
102349 LD	" " #3	102349	" ✓
98675 LD	Peck Sxk #9	98665	"



BLYTHE, CALIF. 13 MI.
EHRENBURG 9 MI.

T. 4 N.
3725
960 000
FEET

T. 3 N.

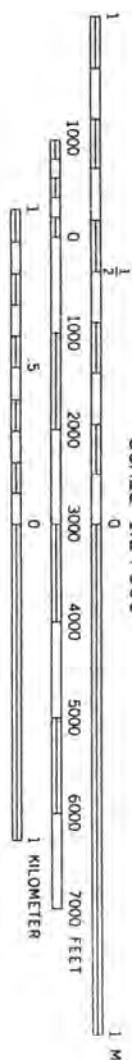
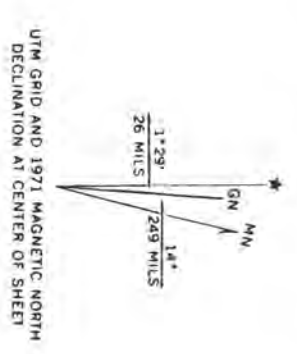
3724

33° 37' 30"
114° 22' 30"

Mapped, edited, and published by the Geological Survey
Control by USGS and USC&GS

Topography by photogrammetric methods from aerial
photographs taken 1970. Field checked 1971
Projection and 10,000-foot grid ticks: Arizona coordinate
system, west zone (transverse Mercator)
1000-meter Universal Transverse Mercator grid ticks,
zone 11, shown in blue. 1927 North American datum
To place on the predicted North American Datum 1983
move the projection lines 2 meters south and
72 meters east as shown by dashed corner ticks

Where omitted, land lines have not been established
There may be private inholdings within the boundaries of
the National or State reservations shown on this map



CONTOUR INTERVAL 40 FEET
DOTTED LINES REPRESENT 20-FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

STATE OF ARIZONA, } ss. I hereby certify that the within instrument was filed and recorded
 County of Yuma 1980 JUN 16 PM 29 27 at _____ M.
 In Docket No. 1168 Page 687-689 at the request of
Heinrichs Geoexploration Co.

Fee No.:

14759

MICROFILMED

When recorded mail to:

HEINRICHS
 GEOEXPLORATION CO.



Box 5964 Tucson, Arizona 85703
 Phone: (602) 623-0578
 Cable: GEOEX

Witness my hand and official seal.

GLENYS E. SCHMITT

County Recorder

By

Charles J. Dally
 Deputy Recorder

Fee: \$

30

MAP OF MINING CLAIM LOCATION

1. ☒ Location ☐ Amendment ☐ Relocation
 2. ☐ Placer ☒ Lode ☐ Millsite ☐ Tunnelsite

3. The name of the claim is SE # 23
 The name of the locator is Heinrichs GEOEXploration Co.

4. The location of the claim is in Section 31, Township 4N, Range 20W
G&SRB&M, Middle Camp Mining District, Yuma County, Arizona.
 The SE corner of the claim is 5900 feet in a SE direction
 to a survey monument or permanent natural object described as _____
SE corner of section 31

5. The type of Location monument is 2X2 wooden stake
 The type of corner and end monuments are 2X2 wooden stakes

6. The bearing and distance between the corners of the claim are beginning at the SE
 corner of the claim, 600 feet in a westerly direction to the SW corner,
 then 1500 feet in a northerly direction to the NW corner, then
600 feet in a easterly direction to the NE corner, then 1500
 feet in a southerly direction to the point of beginning.

7. If amending, relocating or previously recorded, this claim was recorded in Docket _____, Page _____,
 _____ Mining District, _____ County, Arizona.

Date

4/5/80

William C. Hirt

William C. Hirt, agent
 Signature

ARIZONA STATE OFFICE
BU. LAND MANAGEMENT

MAP

JUN 30 1980

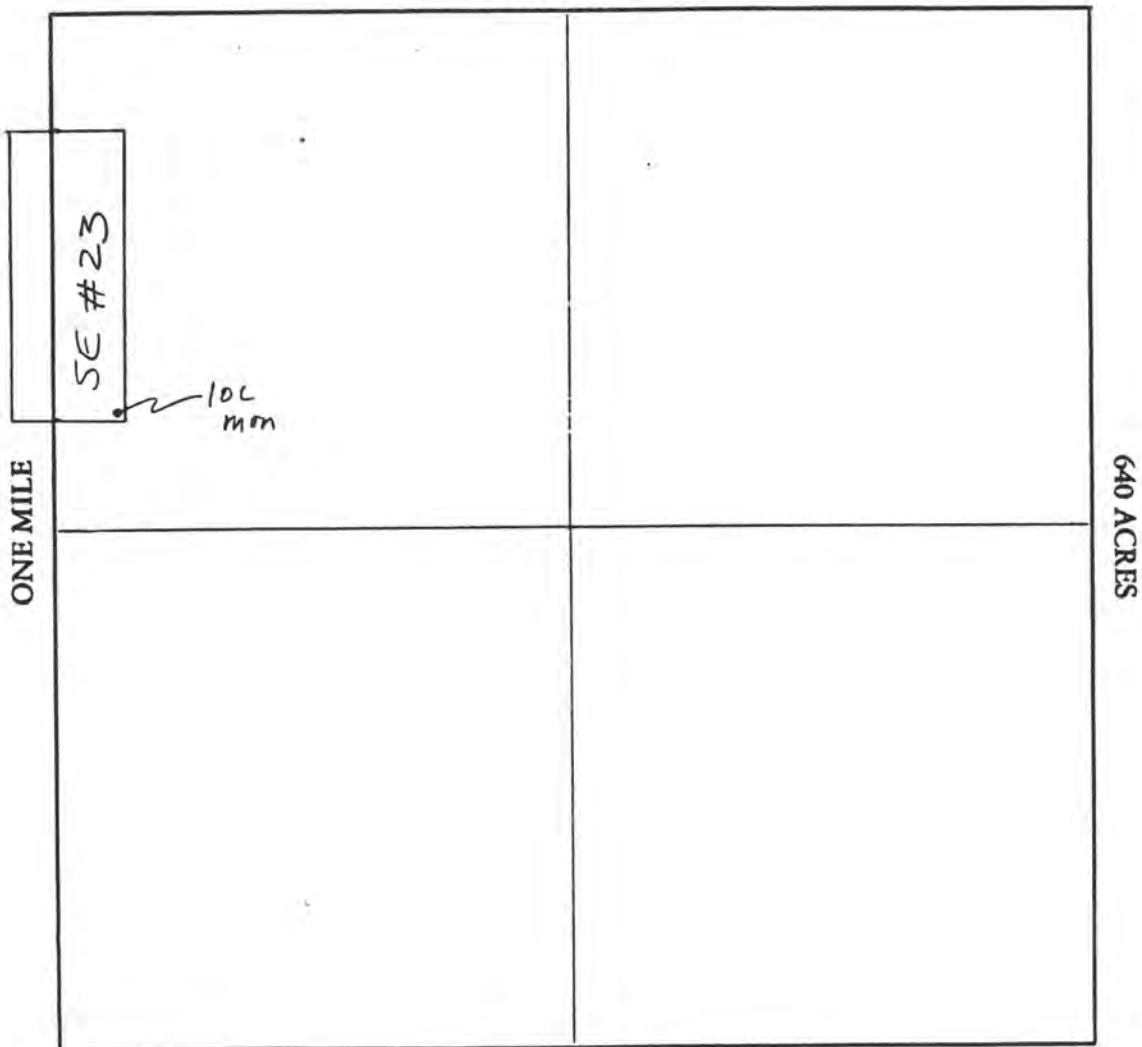
7:45 A.M.
PHOENIX, ARIZONA

One inch = One thousand feet

North Arrow



ONE MILE



Section 31 Range 20W Township 4N, G&SRB&M

Date 4/5/80

William C. Hitt
Signature

STATE OF ARIZONA, } ss. I hereby certify that the within instrument was filed and recorded
County of Yuma } 1980 Jun 15 PM 2:27, at _____ M.
In Docket No. 1168 Page 689-690, at the request of

Fee No.:

14760

MICROFILMED

When recorded, mail to:

HEINRICH

GEOEXPLORATION CO.



Box 5964 Tucson, Arizona 85703
Phone: (602) 623-0578
Cable: GEOEX

Witness my hand and official seal

GLENYS E. SCHMITT

County Recorder

By

Charles J. Diller

Deputy Recorder

Fee: \$

30

MAP OF MINING CLAIM LOCATION

1. ☒ Location ☐ Amendment ☐ Relocation
2. ☐ Placer ☒ Lode ☐ Millsite ☐ Tunnelsite

3. The name of the claim is SE # 24

The name of the locator is Heinrichs GEOEXploration Co.

4. The location of the claim is in Section 31, Township 4N, Range 20W

G&SRB&M, Middle Camp Mining District, Yuma County, Arizona.

The SW corner of the claim is 5900 feet in a SE direction

to a survey monument or permanent natural object described as _____

SE corner of section 31

5. The type of Location monument is 2X2 wooden stake

The type of corner and end monuments are 2X2 wooden stakes

6. The bearing and distance between the corners of the claim are beginning at the SW

corner of the claim, 1500 feet in a northerly direction to the N corner,

then 600 feet in a easterly direction to the NE corner, then

1500 feet in a southerly direction to the SE corner, then 600

feet in a westerly direction to the point of beginning.

7. If amending, relocating or previously recorded, this claim was recorded in Docket _____, Page

_____, _____ Mining District, _____ County, Arizona.

Date 4/5/80

William C. Hirt

William C. Hirt, agent

Signature

A MC 105437

ARIZONA STATE OFFICE
BU. LAND MANAGEMENT

JUN 30 1980

7:45 A.M.
PHOENIX, ARIZONA

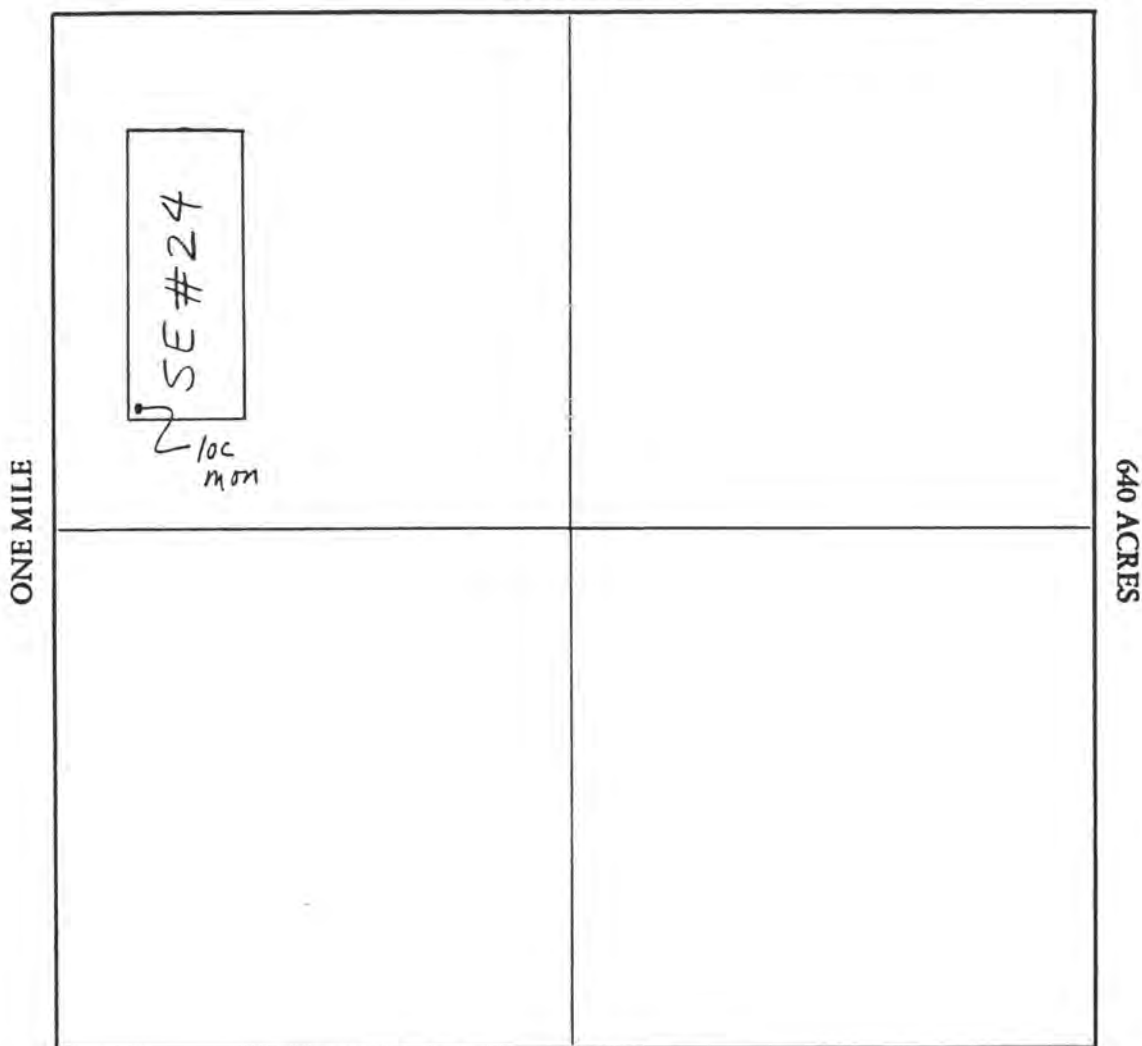
MAP

One inch = One thousand feet

North Arrow



ONE MILE



Section 31 Range 20W Township 4N, G&SRB&M

Date

4/5/80

William C. Hitt

Signature

STATE OF ARIZONA, } ss. I hereby certify that the within instrument was filed and recorded
 County of Yuma } 1980 Jul. 15 PM 2 27 at _____ M.
 In Docket No. 1168 Page 691-692 at the request of

Fee No.:

14761

MICROFILMED

When recorded mail to:

HEINRICH'S
 GEOEXPLORATION CO.
 Box 5964 Tucson, Arizona 85703
 Phone: (602) 623-0578
 Cable: GEOEX

Witness my hand and official seal.

GLENYS E. SCHMITT

County Recorder

By

Charles L. Dill
 Deputy Recorder

Fee: \$

30

MAP OF MINING CLAIM LOCATION

1. ☒ Location ☐ Amendment ☐ Relocation
 2. ☐ Placer ☒ Lode ☐ Millsite ☐ Tunnelsite

3. The name of the claim is SE # 25

The name of the locator is Heinrichs GEOEXploration Co.

4. The location of the claim is in Section 31, Township 4N, Range 20W

G&SRB&M, Middle Camp Mining District, Yuma County, Arizona.

The SE corner of the claim is 4900 feet in a SE direction

to a survey monument or permanent natural object described as _____

SE corner of section 31

5. The type of Location monument is 2X2 wooden stakes

The type of corner and end monuments are 2X2 wooden stakes

6. The bearing and distance between the corners of the claim are beginning at the SE

corner of the claim, 600 feet in a westerly direction to the SW corner,

then 1500 feet in a northerly direction to the NW corner, then

600 feet in a easterly direction to the NE corner, then 1500

feet in a southerly direction to the point of beginning.

7. If amending, relocating or previously recorded, this claim was recorded in Docket _____, Page

_____, _____ Mining District, _____ County, Arizona.

Date

4/5/80

William C. Hirt
 William C. Hirt, agent
 Signature

ARIZONA STATE OFFICE
BU. LAND MANAGEMENT

MAP

JUN 30 1980

7:45 A.M.
PHOENIX, ARIZONA

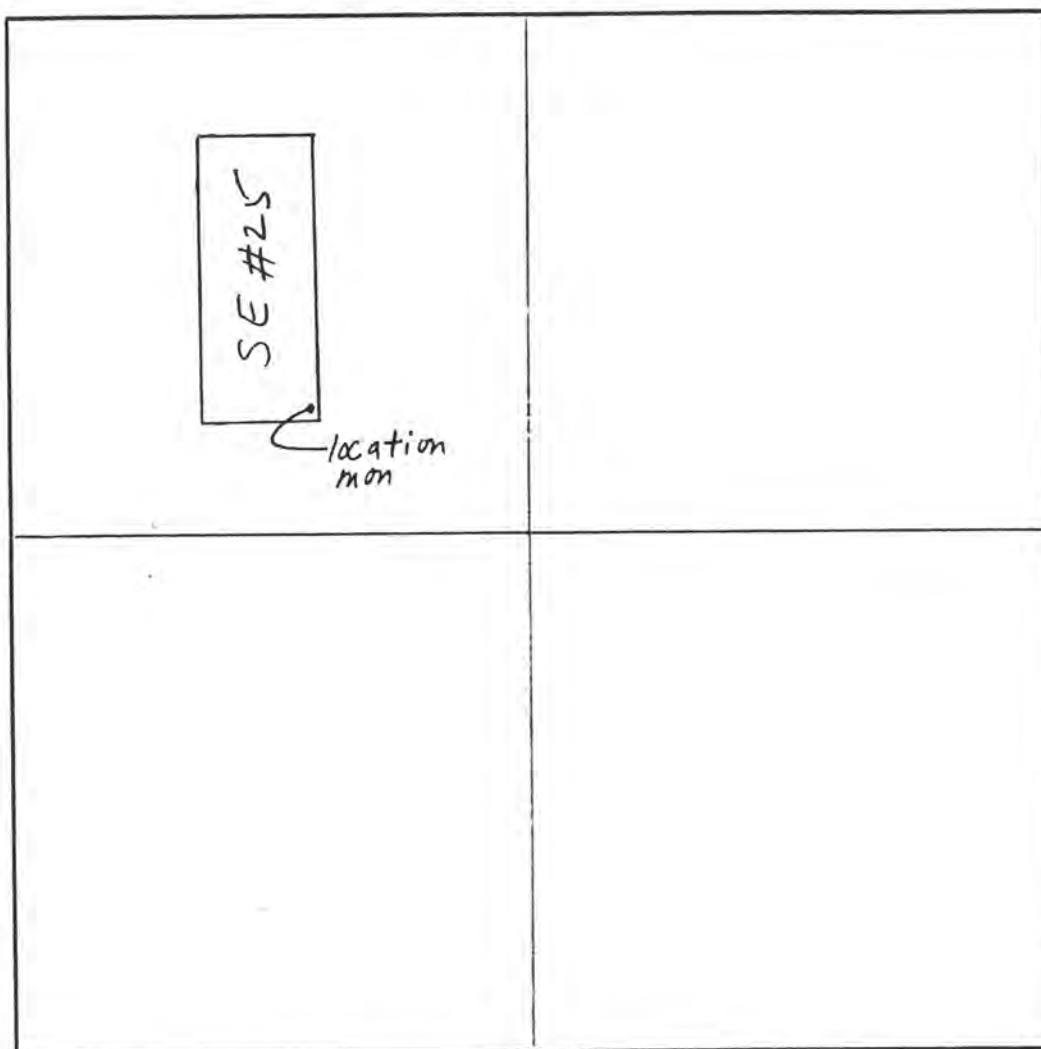
One inch = One thousand feet

North Arrow



ONE MILE

ONE MILE



640 ACRES

Section 31 Range 20W Township 4N G&SRB&M

Date

4/5/80

William C. Hunt

Signature

STATE OF ARIZONA, } ss. I hereby certify that the within instrument was filed and recorded
 County of yuma } 1980 JUN 16 PM 2 27 at _____ M.
 In Docket No. 1168 Page 693-694 at the request of

Fee No.:
14762

MILK FILMED

When recorded mail to:

HEINRICHS
 GEOEXPLORATION CO.
 Box 5964 Tucson, Arizona 85703
 Phone: (602) 623-0578
 Cable: GEOEX



Witness my hand and official seal.

GLENYS E. SCHMITT

County Recorder

Fee: \$
300

By

Charles J. Dilling

Deputy Recorder

MAP OF MINING CLAIM LOCATION

- ☒ Location ☐ Amendment ☐ Relocation
- ☐ Placer ☒ Lode ☐ Millsite ☐ Tunnelsite
- The name of the claim is SE #26
 The name of the locator is Heinrichs GEOEXploration Co.
- The location of the claim is in Section 31, Township 4N, Range 20W
G&SRB&M, Middle Camp Mining District, Yuma County, Arizona.
 The SE corner of the claim is 1900 feet in a SE direction
 to a survey monument or permanent natural object described as _____
SE corner of section 31
- The type of Location monument is 2X2 wooden stake
 The type of corner and end monuments are 2X2 wooden stakes
- The bearing and distance between the corners of the claim are beginning at the SW
 corner of the claim, 1500 feet in a northerly direction to the NW corner,
 then 600 feet in a easterly direction to the NE corner, then
1500 feet in a southerly direction to the SE corner, then 600
 feet in a westerly direction to the point of beginning.
- If amending, relocating or previously recorded, this claim was recorded in Docket _____, Page _____,
 _____ Mining District, _____ County, Arizona.

Date

4/5/80

William C. Hirt

William C. Hirt, agent
 Signature

7 MC 105439

ARIZONA STATE OFFICE
BU. LAND MANAGEMENT

MAP

JUN 30 1980

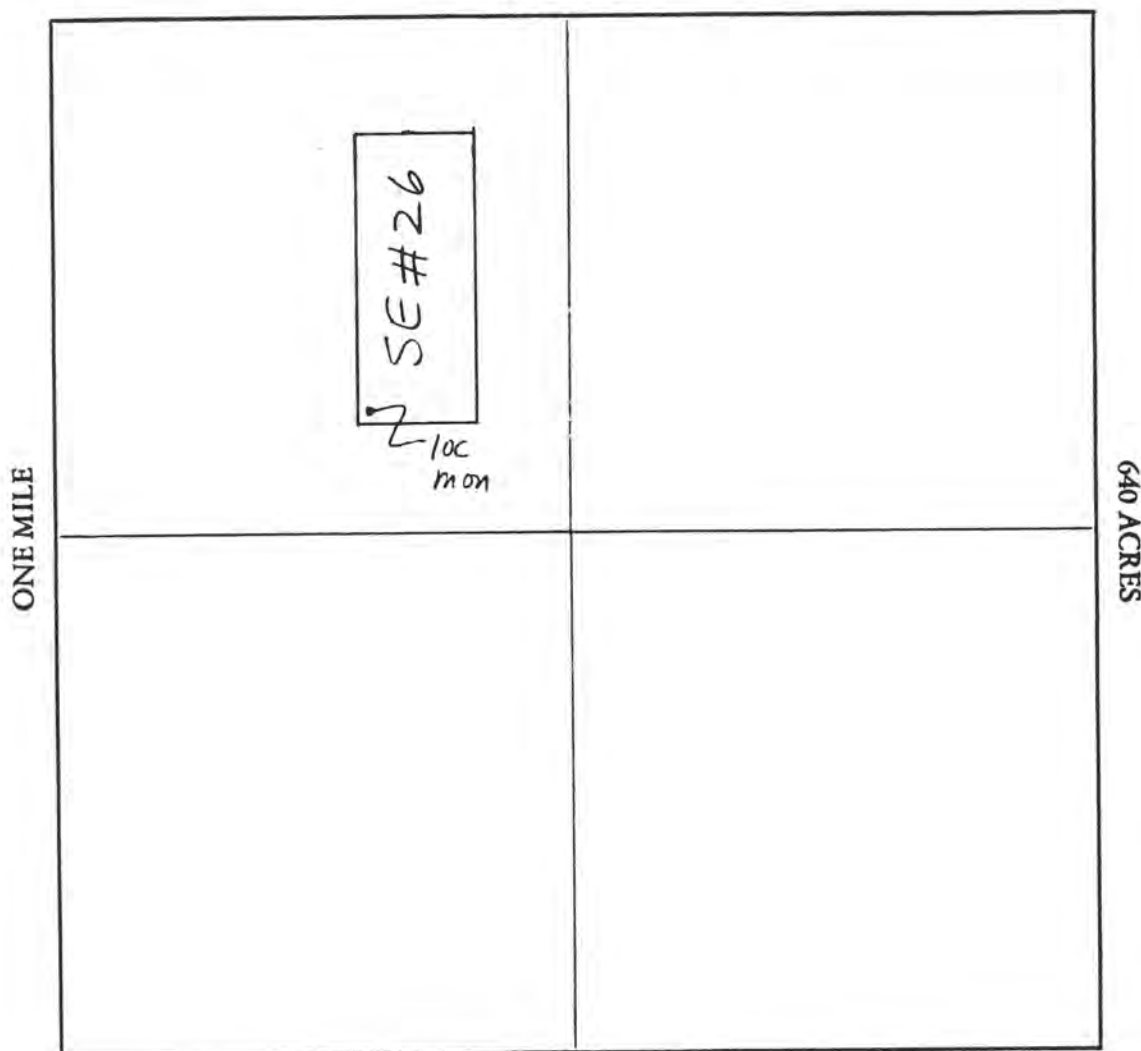
7:45 A.M.
PHOENIX, ARIZONA

One inch = One thousand feet

North Arrow



ONE MILE



Section 31 Range 20W Township 4N G&SRB&M

Date 4/6/80

William C. Hitt

Signature

STATE OF ARIZONA, } ss. I hereby certify that the within instrument was filed and recorded
 County of Yuma 1980 Jul, 16 PM 2 27, at M.
 In Docket No. 1168, Page 695-696, at the request of
Heinrichs Geoexploration Co.

Fee No.:

14763

MICROFILMED

Fee: \$

3.00

When recorded mail to:

HEINRICHS
 GEOEXPLORATION CO.
 Box 5964 Tucson, Arizona 85703
 Phone: (602) 623-0578
 Cable: GEOEX



Witness my hand and official seal.

GLENYS E. SCHMITT

County Recorder

By

Charles J. Dill

Deputy Recorder

MAP OF MINING CLAIM LOCATION

1. ☒ Location ☐ Amendment ☐ Relocation
 2. ☐ Placer ☒ Lode ☐ Millsite ☐ Tunnelsite

3. The name of the claim is SE #27
 The name of the locator is Heinrichs GEOEXploration Co.

4. The location of the claim is in Section 31, Township 1N, Range 20W
G&SRB&M, Middle Camp Mining District, Yuma County, Arizona.
 The SE corner of the claim is 4100 feet in a SE direction
 to a survey monument or permanent natural object described as
SE corner of section 31

5. The type of Location monument is 2X2 wooden stake
 The type of corner and end monuments are 2X2 Wood n stakes

6. The bearing and distance between the corners of the claim are beginning at the SE
 corner of the claim, 600 feet in a westerly direction to the SW corner,
 then 1500 feet in a Northerly direction to the NW corner, then
600 feet in a easterly direction to the NE corner, then 1500
 feet in a southerly direction to the point of beginning.

7. If amending, relocating or previously recorded, this claim was recorded in Docket , Page
 Mining District, County, Arizona.

Date

4/5/80

William C. Hirt

William C. Hirt, agent
 Signature

A MC 105440

ARIZONA STATE OFFICE
BU. LAND MANAGEMENT

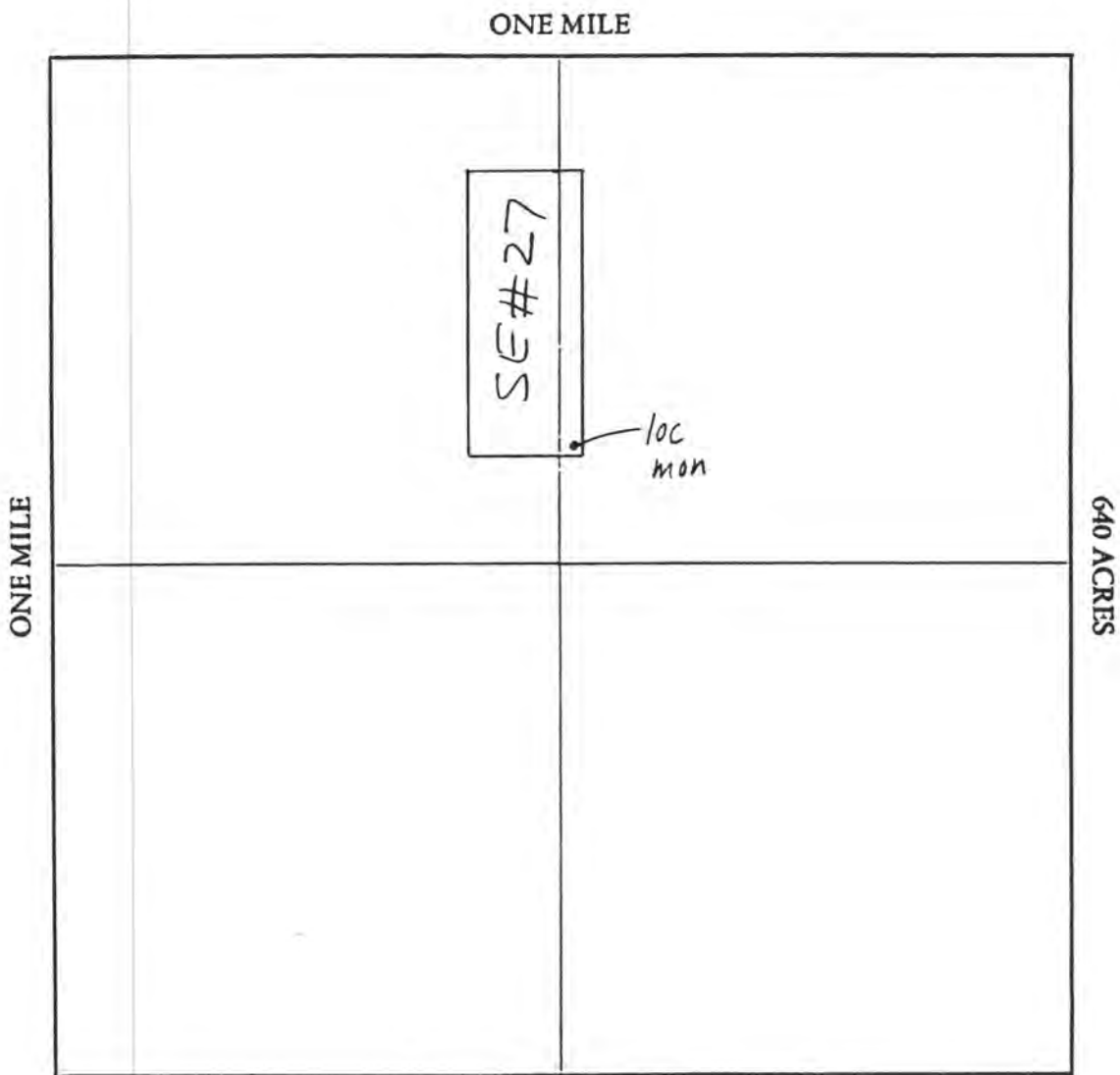
MAP

JUN 30 1980

7:45 A.M.
PHOENIX, ARIZONA

One inch = One thousand feet

North Arrow



Section 31 Range 20W Township 4N, G&SRB&M

Date 4/5/80

William E. Hitt
Signature

STATE OF ARIZONA, } ss. I hereby certify that the within instrument was filed and recorded
 County of Yuma 1980 JUL 16 PM 2 1927 M.
 In Docket No. 1168 Page 697-698 at the request of
Heinrichs Geoexploration Co.

Fee No.:

14764

MINUTEMAN

When recorded mail to:

HEINRICHS

GEOEXPLORATION CO.

Box 5964 Tucson, Arizona 85703

Phone: (602) 623-0578

Cable: GEOEX



Witness my hand and official seal.

GLENYS E. SCHMITT

County Recorder

By

Cherlene A. Dilling

Deputy Recorder

Fee: \$

30

MAP OF MINING CLAIM LOCATION

1. ☒ Location ☐ Amendment ☐ Relocation
2. ☐ Placer ☒ Lode ☐ Millsite ☐ Tunnelsite

3. The name of the claim is SE # 28

The name of the locator is Heinrichs GEOEXploration Co.

4. The location of the claim is in Section 31, Township 4N, Range 20W

G&SRB&M, Middle Camp Mining District, Yuma County, Arizona.

The SW corner of the claim is 4100 feet in a SE direction

to a survey monument or permanent natural object described as _____

SE corner of section 31

5. The type of Location monument is 2X2 wooden stake

The type of corner and end monuments are 2X2 wooden stakes

6. The bearing and distance between the corners of the claim are beginning at the SW

corner of the claim, 1500 feet in a northerly direction to the NW corner,

then 600 feet in a easterly direction to the NE corner, then

1500 feet in a southerly direction to the SE corner, then 600

feet in a westerly direction to the point of beginning.

7. If amending, relocating or previously recorded, this claim was recorded in Docket _____, Page

_____, _____ Mining District, _____ County, Arizona.

Date 4/5/80

William C. Hirt

William C. Hirt, agent

Signature

ARIZONA STATE OFFICE
BU. LAND MANAGEMENT

MAP

JUN 30 1980

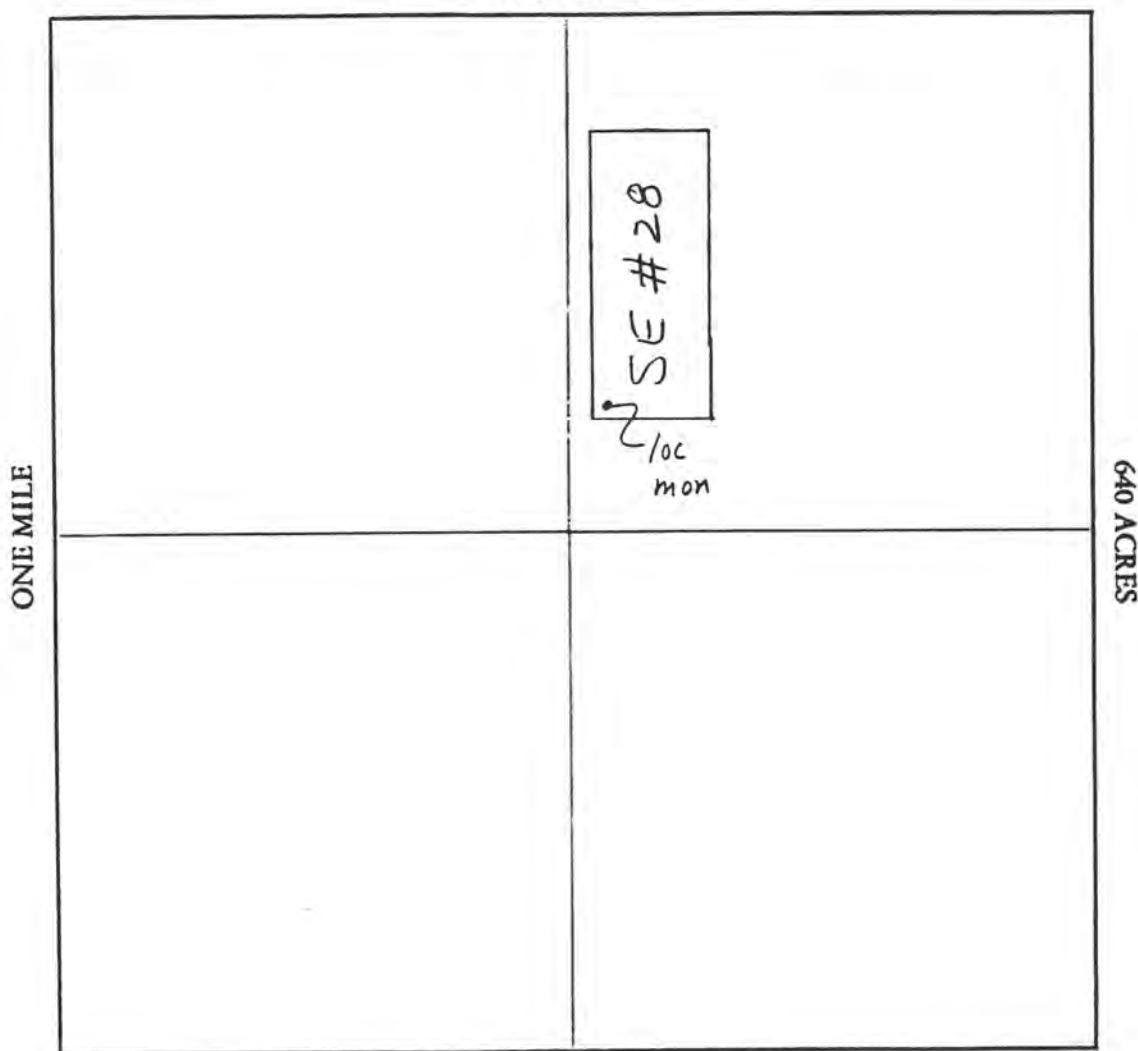
7:45 A.M.
PHOENIX, ARIZONA

One inch = One thousand feet

North Arrow



ONE MILE



Section 31 Range 20 W Township 4N, G&SRB&M

Date 4/5/80

William C. Hunt
Signature

STATE OF ARIZONA, } ss. I hereby certify that the within instrument was filed and recorded
 County of yuma } 1980 JUL 15 PM 2:27, at _____ M.
 In Docket No. 1168 Page 699-700 at the request of
Heinrichs Geoexploration Co.

Fee No.:
14765

MICROFILMED

When recorded mail to:
 HEINRICHS
 GEOEXPLORATION CO.
 Box 5964 Tucson, Arizona 85703
 Phone: (602) 623-0578
 Cable: GEOEX

Witness my hand and official seal.
GLENYS E. SCHMITT
 County Recorder
 By Charlene L. Dickey
 Deputy Recorder

Fee: \$
3.00

MAP OF MINING CLAIM LOCATION

HC 105442

1. ☒ Location ☐ Amendment ☐ Relocation
 2. ☐ Placer ☒ Lode ☐ Millsite ☐ Tunnelsite

3. The name of the claim is SE # 29
 The name of the locator is Heinrichs GEOEXploration Co.

4. The location of the claim is in Section 31, Township 4N, Range 20W
G&SRB&M, Middle Camp Mining District, Yuma County, Arizona.
 The SE corner of the claim is 3500 feet in a SE direction
 to a survey monument or permanent natural object described as _____
SE corner of section 31

5. The type of Location monument is 2X2 wooden stake
 The type of corner and end monuments are 2X2 wooden stakes

6. The bearing and distance between the corners of the claim are beginning at the SE
 corner of the claim, 600 feet in a westerly direction to the SW corner,
 then 1500 feet in a northerly direction to the N corner, then
600 feet in a easterly direction to the NE corner, then 1500
 feet in a southerly direction to the point of beginning.

7. If amending, relocating or previously recorded, this claim was recorded in Docket _____, Page
 _____, _____ Mining District, _____ County, Arizona.

Date 4/3/80

William C. Hirt

William C. Hirt, agent
 Signature

DKT 1168 PAGE 700

ARIZONA STATE OFFICE
BU. LAND MANAGEMENT

MAP

JUN 30 1980

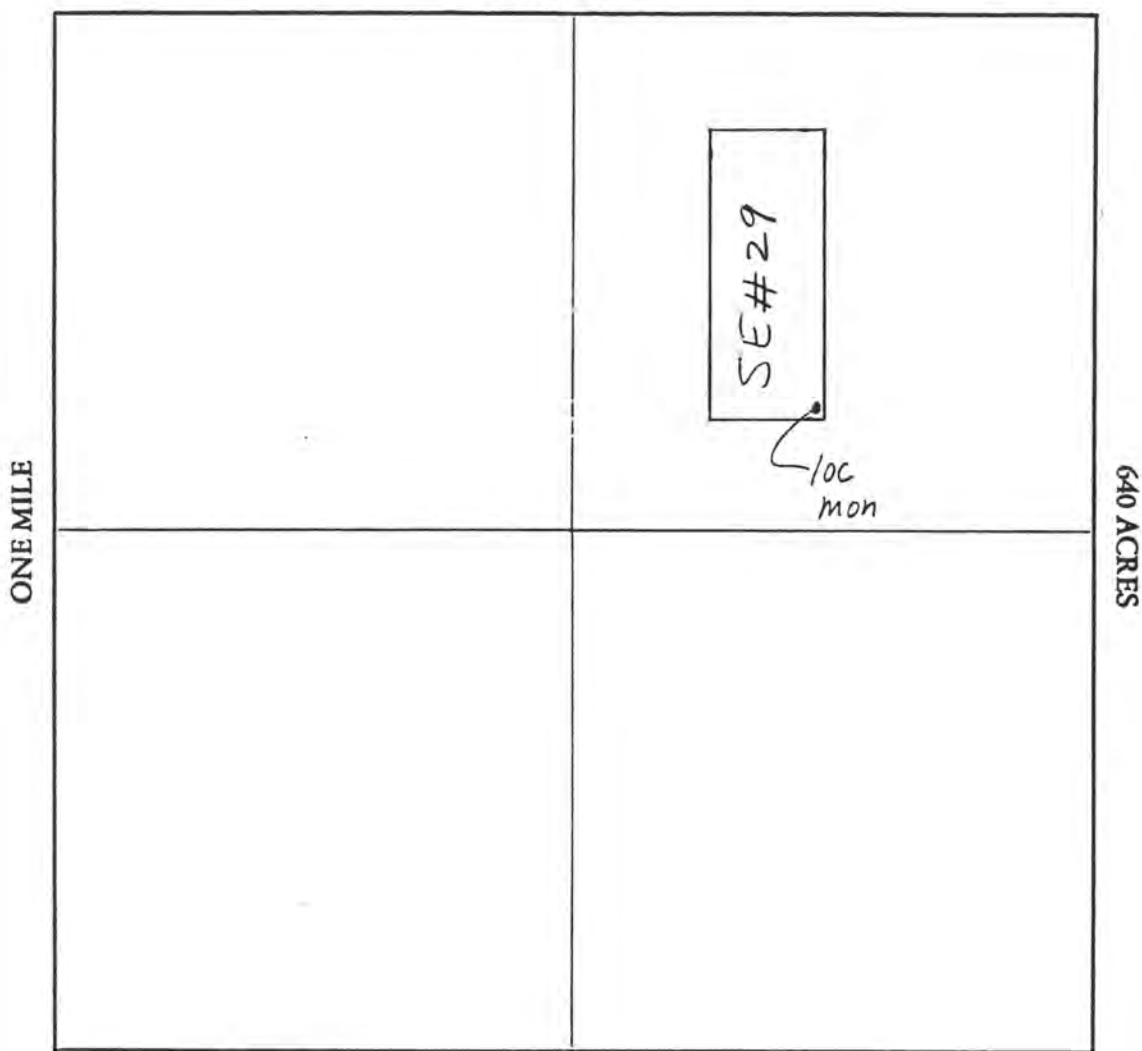
7:45 A.M.
PHOENIX, ARIZONA

One inch = One thousand feet

North Arrow



ONE MILE



Section 31 Range 20W Township 4N G&SRB&M

Date

4/5/80

William C. Hunt
Signature

STATE OF ARIZONA, } ss. I hereby certify that the within instrument was filed and recorded
 County of Yuma 1980 JUL 16 PM 2 27, at _____ M.
 In Docket No. 1168, Page 701-702, at the request of

Fee No.:

14766

MICROFILMED

When recorded mail to:

HEINRICH'S
 GEOEXPLORATION CO.



Box 5964 Tucson, Arizona 85703
 Phone: (602) 623-0578
 Cable: GEOEX

Witness my hand and official seal.

GLENYS E. SCHMITT

County Recorder

By

Charlene J. Dwyer
 Deputy Recorder

Fee: \$

3.00

MAP OF MINING CLAIM LOCATION

1. ☒ Location ☐ Amendment ☐ Relocation
 2. ☐ Placer ☒ Lode ☐ Millsite ☐ Tunnelsite

3. The name of the claim is Heinrichs GEOEXploration Co. SE # 30

The name of the locator is Heinrichs GEOEXploration Co.

4. The location of the claim is in Section 31, Township 4N, Range 20W

G&SRB&M, Middle Camp Mining District, Yuma County, Arizona.

The SW corner of the claim is 3500 feet in a SE direction

to a survey monument or permanent natural object described as _____

SE corner of section 30

5. The type of Location monument is 2X2 wooden stake

The type of corner and end monuments are 2X2 wooden stakes

6. The bearing and distance between the corners of the claim are beginning at the SW

corner of the claim, 1500 feet in a northerly direction to the NW corner,

then 600 feet in a easterly direction to the NE corner, then

1500 feet in a southerly direction to the SE corner, then 600

feet in a westerly direction to the point of beginning.

7. If amending, relocating or previously recorded, this claim was recorded in Docket _____, Page

_____, Mining District, _____ County, Arizona.

Date

4/5/80

William C. Hirt

William C. Hirt, Agent
 Signature

ARIZONA STATE OFFICE
BU. LAND MANAGEMENT

MAP

JUN 30 1980

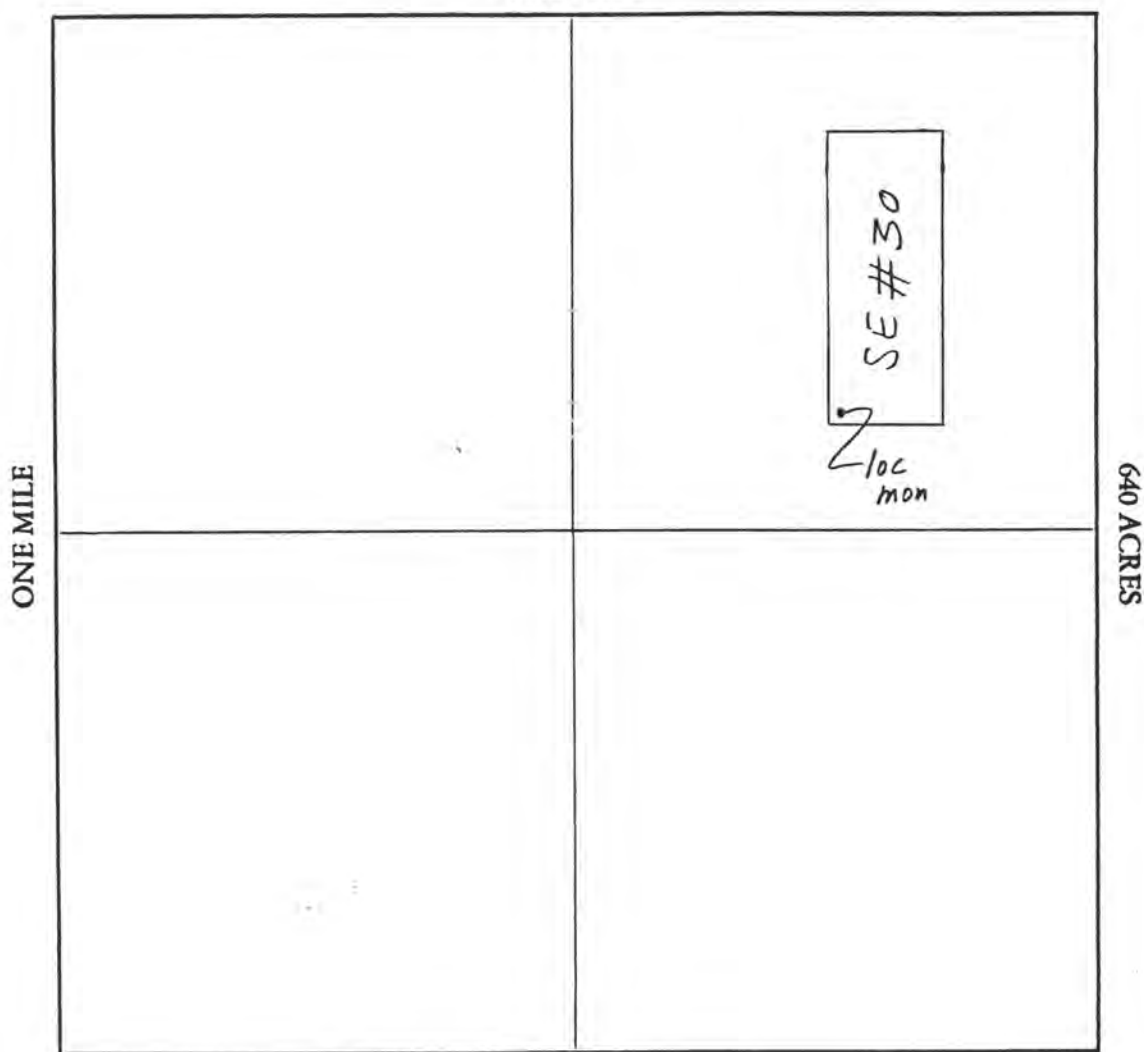
7:45 A.M.
PHOENIX, ARIZONA

One inch = One thousand feet

North Arrow



ONE MILE



Section 31 Range 20W Township 4N G&SRB&M

Date

4/5/80

William C. Hirt

Signature

INDEXED

STATE OF ARIZONA, } ss. I hereby certify that the within instrument was filed and recorded
 County of Yuma 1980 JUN 15 PM 2 27 at _____ M.
 In Docket No. 1168 Page 703-704 at the request of
Heinrichs Geoexploration Co.

Fee No.:

14767

MICROFILMED

When recorded mail to:

HEINRICHS
 GEOEXPLORATION CO.



Box 5964 Tucson, Arizona 85703
 Phone: (602) 623-0578
 Cable: GEOEX

Witness my hand and official seal.

GLENYS E. SCHMITT

County Recorder

By

Charles J. Dittley
 Deputy Recorder

Fee: \$ 3.00

MAP OF MINING CLAIM LOCATION

A MC 105444

1. ☒ Location ☐ Amendment ☐ Relocation
 2. ☐ Placer ☒ Lode ☐ Millsite ☐ Tunnelsite

3. The name of the claim is SE # 31

The name of the locator is Heinrichs GEOEXploration Co.

4. The location of the claim is in Section 31, Township 4N, Range 20W

G&SRB&M, Middle Camp Mining District, Yuma County, Arizona.

The SE corner of the claim is 3300 feet in a southerly direction

to a survey monument or permanent natural object described as _____

SE corner of section 31

5. The type of Location monument is 2X2 wooden stake

The type of corner and end monuments are 2X2 wooden stakes

6. The bearing and distance between the corners of the claim are beginning at the SE

corner of the claim, 600 feet in a westerly direction to the Sh corner,

then 1500 feet in a northerly direction to the N corner, then

600 feet in a easterly direction to the NE corner, then 1500

feet in a southerly direction to the point of beginning.

7. If amending, relocating or previously recorded, this claim was recorded in Docket _____, Page

_____, Mining District, _____ County, Arizona.

Date 4/3/80

William C. Hirt

William C. Hirt, agent

Signature

STATE OF ARIZONA, } I hereby certify that the within instrument was filed and recorded
 County of Yuma } ss. 1980 Jul, 15 PM, 2 27 at M.
 In Docket No. 1168 Page 705-726 at the request of Heinrichs Geoexploration Co

Fee No.:

14768

MICROFILMED

When recorded mail to:

HEINRICHS
 GEOEXPLORATION CO.
 Box 5964 Tucson, Arizona 85703
 Phone: (602) 623-0578
 Cable: GEOEX



Witness my hand and official seal.

GLENYS E. SCHMITT

County Recorder

By

Charlene J. Dilly
 Deputy Recorder

Fee. \$

3.00

MAP OF MINING CLAIM LOCATION

1. ☒ Location ☐ Amendment ☐ Relocation
2. ☐ Placer ☒ Lode ☐ Millsite ☐ Tunnelsite

3. The name of the claim is SE # 32
 The name of the locator is Heinrichs GEOEXploration Co.

4. The location of the claim is in Section 31, Township 4N, Range 20W
G&SRB&M, Middle Camp Mining District, Yuma County, Arizona.
 The SW corner of the claim is 3300 feet in a southerly direction
 to a survey monument or permanent natural object described as SE corner of section 31

5. The type of Location monument is 2X2 wooden stake
 The type of corner and end monuments are 2X2 wooden stakes

6. The bearing and distance between the corners of the claim are beginning at the SE
 corner of the claim, 1500 feet in a northerly direction to the NE corner,
 then 600 feet in a easterly direction to the NE corner, then
1500 feet in a southerly direction to the SE corner, then 600
 feet in a westerly direction to the point of beginning.

7. If amending, relocating or previously recorded, this claim was recorded in Docket , Page
 Mining District, County, Arizona.

Date 4/3/80

William C. Hirt

William C. Hirt, agent
 Signature

ARIZONA STATE OFFICE
BU. LAND MANAGEMENT

MAP

JUN 30 1980

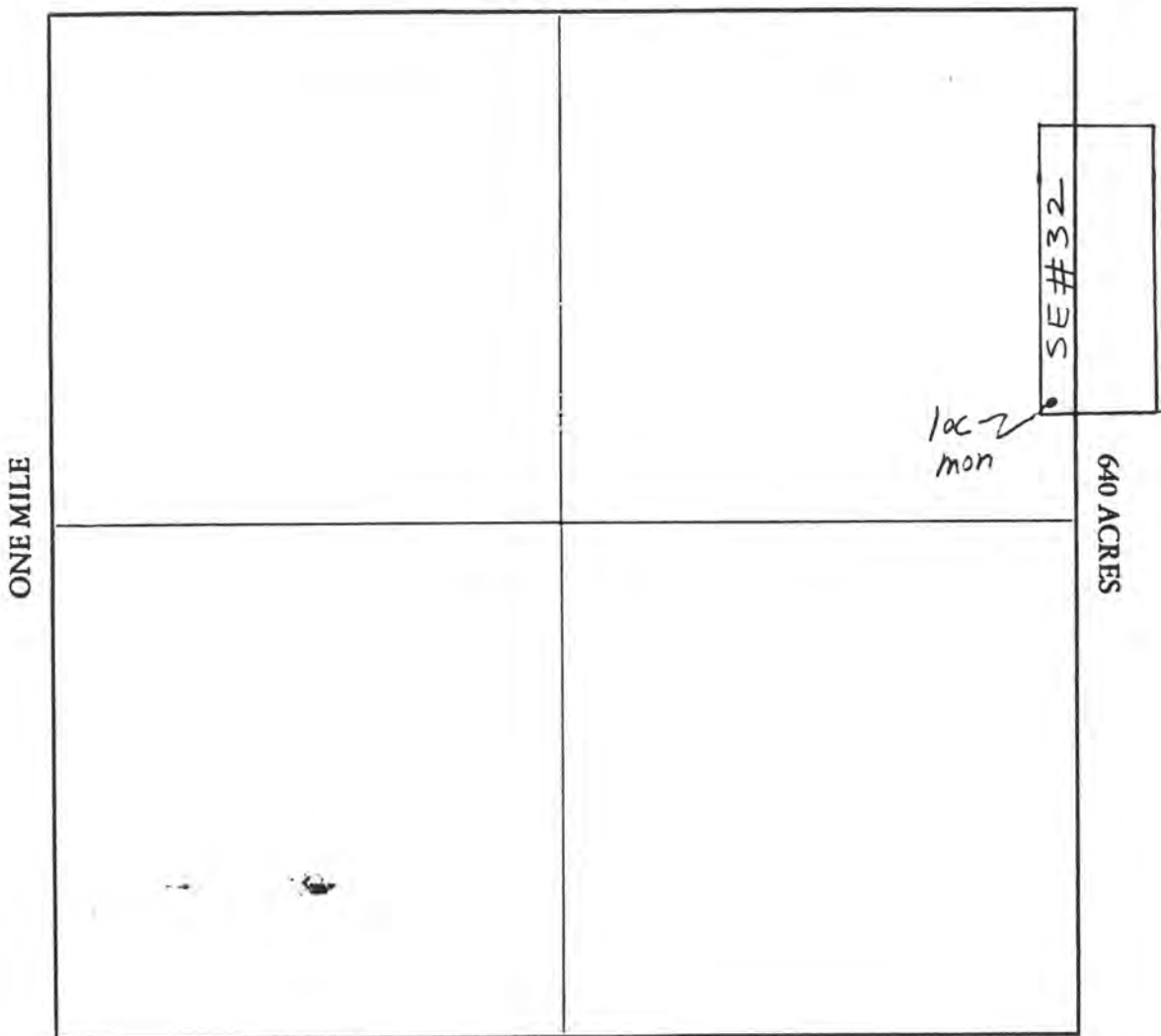
7:45 A.M.
PHOENIX, ARIZONA

One inch = One thousand feet

North Arrow



ONE MILE



Section 31 Range 20W Township 4N G&SRB&M

Date 4/5/80

William C. Hitt
Signature

DEL TIERRA ENGINEERING & MINING CORP.

HARVEY W. SMITH, E.M. PRESIDENT

Registered Mining Engineer

U.S. Mineral Surveyor

U.S. Approved Title Abstracter

Member Board of Governors of the Arizona Dept. of Mines & Mineral Resources

4310 North Brown Avenue / Suite 3

Scottsdale, Arizona 85251

Tel. 602 / 946-3996

May 13, 1986

AMC 163429

102348

97158

98667



Bureau of Land Management
Department of the Interior
P. O. Box 16563
Phoenix, AZ 85011

Gentlemen:

Enclosed are 19 amended lode claim location notices
with 1 map attached for the following claims which have been
recorded with the La Paz County Recorder:

Pack Sack #s 1-9, Black Boar Ext.,
Black Boar #s 2-4, Blue Bird #s 2-6 and
Millsite Blue Bird #1
lodes

While these are amended notices, we are enclosing a check
for \$95.00 for the filing fee inasmuch as the original notices
may be defective. Please advise when filing has been completed.

ASHIER
RETURNED
CHECK
6/2/1986

Sincerely,

Harvey W. Smith, E.M.
President

HWS/hm

Enclosures - hand carried

RECEIVED
F.L.M. AZ STATE OFFICE
PHOENIX, ARIZONA
MAY 30 AM 9 44

SV computer 6/3/86 cgy

24

19

MINING CLAIMS

of

Dan Patch
P.O. Box 124
Quartzsite, AZ 85346

known as

Pack Sack #s 1-9, Black Boar Ext.,
Black Boar #s 2-4, Blue Bird #s 2-6,
and Millsite Blue Bird #1 lodes.

situate in

Secs. 30 & 31, T. 4 N., R. 20 W., G. & S.R.M.
Secs. 25 & 36, T. 4 N., R. 21 W., G. & S.R.M.
La Paz Mining District
La Paz County, Arizona
scale 1" = 1000' April 4, 1986

surveyed by

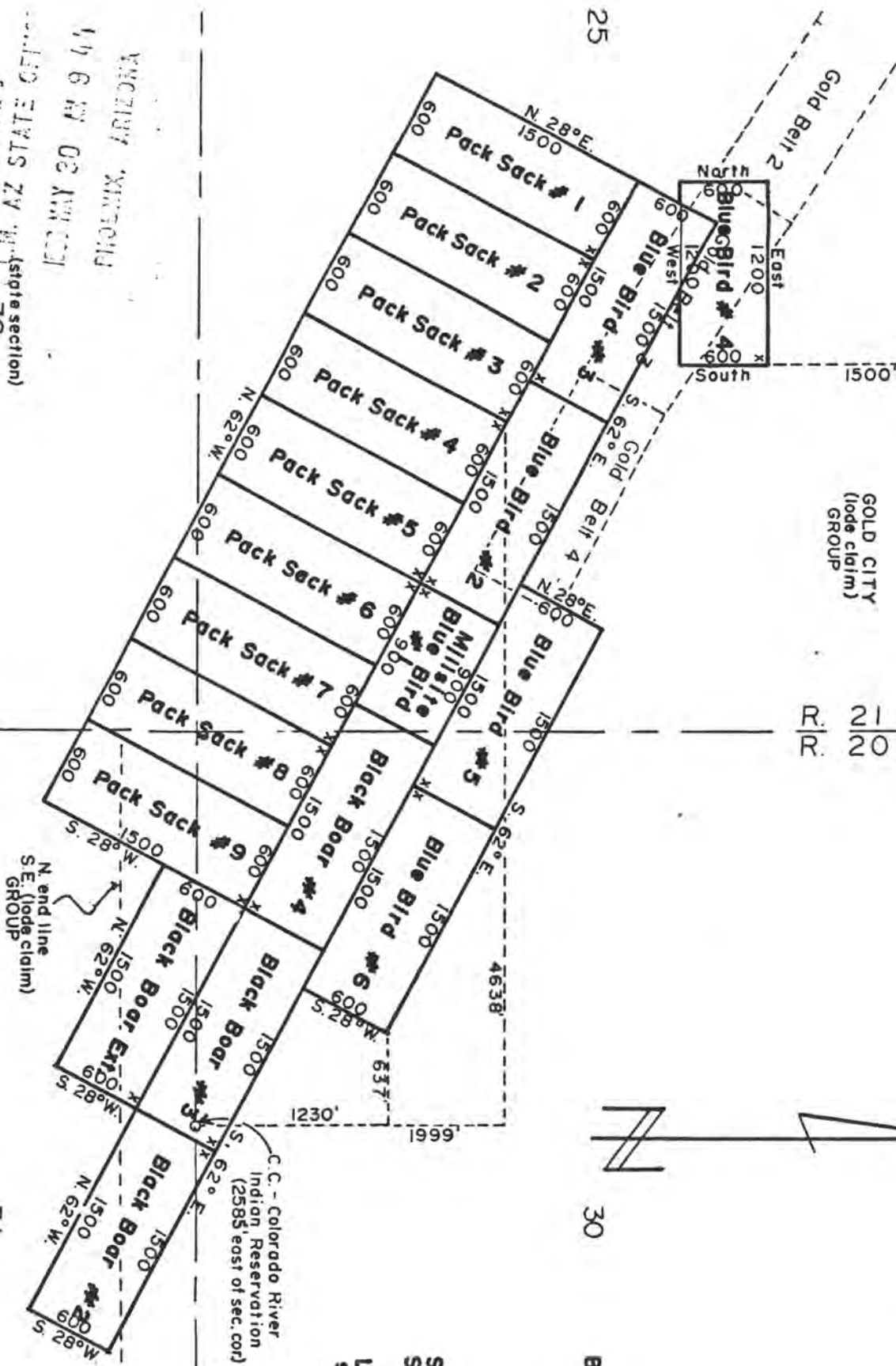
Del Tierra Engineering
& Mining Corporation

Note: x - denotes location n.o.n.
All monuments are
2" x 2" x 4' 6" wood posts.

N. end line
S.E. (lode claim)
GROUP

31

RECORDED
176 MAY 02 AM '86
STATE OF ARIZONA
COUNTY OF MARICOPA
SECTION 36



INDEXED

MICROFILMED

STATE OF ARIZONA,

County of La Paz

ss.

I hereby certify that the within instrument was filed and recorded

19

at

Fee No.:

JAN 30 11 05 AM '86

Indexed:

Compared:

Photostated:

5-

Fee: \$

OF 2 PGS.



SASE

Dan Patch
P.O. Box 124
Quartzsite, AZ
85346

Lois R. Howe

County Recorder

Deputy Recorder

Quit-Claim Deed

For the consideration of Ten Dollars, and other valuable considerations, I or we,

Dorris Parker
P.O. Box 1005
Quartzsite, AZ
85346

hereby quit-claim to Dan Patch
P.O. Box 124
Quartzsite, AZ 85346

all right, title, or interest in the following real property situated in La Paz County, Arizona:

Nineteen lode mining claims as described below and recorded at Yuma, AZ

Claim Name	Docket	Pages	BLM Federal Serial No.
Black Boar #2	1126	105	AMC-102348
Black Boar #3	1126	107	AMC-102349
Black Boar #4	1126	108	AMC-102350
Black Boar Ext.	1274	744-745	AMC-163429
Millsite Blue Bird #1	1139	255	AMC-97158
Blue Bird #2	1139	796	AMC-97159
Blue Bird #3	1139	253	AMC-97160
Blue Bird #4	1139	250	AMC-97161
Blue Bird #5	1139	251	AMC-97162
Blue Bird #6	1139	798	AMC-97163
Pack Sack #1	1150	992-993-994	AMC-98667
Pack Sack #2	1150	995-996	AMC-98668
Pack Sack #3	1150	997-998	AMC-98669
Pack Sack #4	1150	999-1000	AMC-98670
Pack Sack #5	1151	01-02	AMC-98671
Pack Sack #6	1151	03-04	AMC-98672
Pack Sack #7	1151	05-06	AMC-98673
Pack Sack #8	1151	07-08	AMC-98674
Pack Sack #9	1151	09-10	AMC-98675

The mining claims herein described are located in Sections 25, 30, 31, Township 4 North Range 20 and 21 West G.S.R.B.M. and are warranted to be free and clear of any and all liens or encumbrances.

RECEIVED
B.L.M. AZ STATE OFFICE

FEB 12 1986

EX A-6

01.45 A.M.
PHOENIX, ARIZONA

Dated this 21 day of Jan, 1986

Dorris Parker

STATE OF Arizona
County of La Paz ss.

This instrument was acknowledged before me this 21 day of January, 1986, by

Dorris Parker

Celia Combs

SEAL

My commission will expire

My Commission Expires Jan. 10, 1987

Notary Public.

an computer 2/18/86 ceg

STATE OF ARIZONA)
COUNTY OF LA PAZ) ss.
Recorded at the request of:
Del Tierra Engineering & Mining Corp.
4310 N. Brown Ave., Ste. 3
Scottsdale, AZ 85251

86- 2235 163429



INDEXED

RECORDED IN OFFICIAL RECORDS
OF LA PAZ COUNTY, ARIZONA
MAY 7 12 04 PM '86

AMENDED
NOTICE OF MINING LOCATION
LODE CLAIM

Lois K. Hesse, COUNTY RECORDER

PGS 1-2

NOTICE IS HEREBY GIVEN THAT Dan Patch, a citizen of the United States, hereby claims the land hereinafter described as a Lode Mining Claim, under and pursuant to the laws of the United States of America and the State of Arizona, having discovered a lode, vein or deposit of valuable minerals within the limits of this claim as hereinafter established.

THAT Black Boar Ext. lode mining claim was located by Dorris Parker on March 15, 1982, the Location Notice of which is recorded in Docket 1274, pages 744-745 Yuma County Records. B.L.M. Serial # A MC 163429.

THE NAME of the claim is Black Boar Ext. lode, and the claim so located, is 1,500 feet in length and 600 feet along the surface in width, claiming 300 feet on each side of the centerline; the "location monument," at which a copy of this notice is posted, is adjacent to the NE corner of this claim on a separate 2" x 2" post. A copy of this notice is also posted on the centerline, 10 ft. from the east end center. The general course of this claim is Northwest to Southeast.

THE UNDERSIGNED has distinctly marked the said location on the ground, so that its surface boundaries may be readily traced, by six substantial posts at least 2" x 2" x 4'6", one at each corner and one at each end center, each so marked or inscribed as to indicate the intended location.

SAID CLAIM is situated in the La Paz Mining District, La Paz County, State of Arizona, and is more particularly described as follows:

BEGINNING at the Northeast corner monument, which is located ~~North~~/South 391 ft. and ~~East~~/West 141 ft. from the Closing Corner of Sections 30 & 31, Tp. 4 North, R.20 West, Gila & Salt River Meridian; thence,

300 feet	<u>S. 28° W.</u>	to the East end center; thence
300 feet	<u>S. 28° W.</u>	to the S.E. corner; thence
1,500 feet	<u>N. 62° W.</u>	to the S.W. corner; thence
300 feet	<u>N. 28° E.</u>	to the West end center; thence
300 feet	<u>N. 28° E.</u>	to the N.W. corner; thence
1,500 feet	<u>S. 62° E.</u>	to the point and place of beginning.

Said claim is located in the:

<u>SW</u>	1/4 of Sec. <u>30</u> , Twp. 4 N., Range <u>20</u> W.
<u>NW</u>	1/4 of Sec. <u>31</u> , Twp. 4 N., Range <u>20</u> W.
	1/4 of Sec. <u> </u> , Twp. 4 N., Range <u> </u> W.
	1/4 of Sec. <u> </u> , Twp. 4 N., Range <u> </u> W.

Gila and Salt River Meridian.

THE PURPOSE of this amended notice is to more definitely describe the locality and boundaries of the claim and to correct any irregularities, errors or defects which may have existed or may exist in the original location of the record thereof, and is made without waiving any rights acquired under and by virtue of the original location. If the original location is, at the time of this amendment, ineffective for any reason, it is the intent of the owner that this amended notice be an original Notice of Location.

Dated and posted on the ground this 27 day of March, 1986.

By:

[Signature]
Agent

LOCATOR:

DAN PATCH
P. O. Box 124
Quartzsite, AZ 85346

RECEIVED
B.L.M. AZ STATE OFFICE
MAY 30 1986
PHOENIX, ARIZONA

ENTERED IN COMPUTER

6/3/86 ceg

GEOGRAPHIC INDEX

LEAD	COUNTY	LOCATION	LATEST	CASE
FILE	BOOK, PAGE	DATE	ASMT-YR	CLOSED

118090 1196;998 10/15/1980 198

ALL	120233	LD	JIM	MARGO	LD	CLM91	MILES	MARGARET	12/30/1980	1981
E2	118094	LD	C	D	LOOE	NO	5		10/15/1980	1981
E2	118093	LD	C	D	LOOE	NO	5		10/15/1980	1981
E2	118092	LD	C	D	LOOE	NO	5		10/15/1980	1981
E2	118091	LD	C	D	LOOE	NO	5		10/15/1980	1981
E2	118090	LD	C	D	LOOE	NO	5		10/15/1980	1981
E2	118089	LD	C	D	LOOE	NO	5		10/15/1980	1981
E2	118088	LD	C	D	LOOE	NO	5		10/15/1980	1981
E2	118087	LD	C	D	LOOE	NO	5		10/15/1980	1981
E2	118086	LD	C	D	LOOE	NO	5		10/15/1980	1981
E2	118085	LD	C	D	LOOE	NO	5		10/15/1980	1981
E2	118084	LD	C	D	LOOE	NO	5		10/15/1980	1981
E2	118083	LD	C	D	LOOE	NO	5		10/15/1980	1981
E2	118082	LD	C	D	LOOE	NO	5		10/15/1980	1981
E2	118081	LD	C	D	LOOE	NO	5		10/15/1980	1981
E2	118080	LD	C	D	LOOE	NO	5		10/15/1980	1981
E2	118079	LD	C	D	LOOE	NO	5		10/15/1980	1981
E2	118078	LD	C	D	LOOE	NO	5		10/15/1980	1981
E2	118077	LD	C	D	LOOE	NO	5		10/15/1980	1981
E2	118076	LD	C	D	LOOE	NO	5		10/15/1980	1981
E2	118075	LD	C	D	LOOE	NO	5		10/15/1980	1981
E2	118074	LD	C	D	LOOE	NO	5		10/15/1980	1981
E2	118073	LD	C	D	LOOE	NO	5		10/15/1980	1981
E2	118072	LD	C	D	LOOE	NO	5		10/15/1980	1981
E2	118071	LD	C	D	LOOE	NO	5		10/15/1980	1981
E2	118070	LD	C	D	LOOE	NO	5		10/15/1980	1981
E2	118069	LD	C	D	LOOE	NO	5		10/15/1980	1981
E2	118068	LD	C	D	LOOE	NO	5		10/15/1980	1981
E2	118067	LD	C	D	LOOE	NO	5		10/15/1980	1981
E2	118066	LD	C	D	LOOE	NO	5		10/15/1980	1981
E2	118065	LD	C	D	LOOE	NO	5		10/15/1980	1981
E2	118064	LD	C	D	LOOE	NO	5		10/15/1980	1981
E2	118063	LD	C	D	LOOE	NO	5		10/15/1980	1981
E2	118062	LD	C	D	LOOE	NO	5		10/15/1980	1981
E2	118061	LD	C	D	LOOE	NO	5		10/15/1980	1981
E2	118060	LD	C	D	LOOE	NO	5		10/15/1980	1981
E2	118059	LD	C	D	LOOE	NO	5		10/15/1980	1981
E2	118058	LD	C	D	LOOE	NO	5		10/15/1980	1981
E2	118057	LD	C	D	LOOE	NO	5		10/15/1980	1981
E2	118056	LD	C	D	LOOE	NO	5		10/15/1980	1981
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E2	118054	LD	C	D	LOOE	NO	5		10/15/1980	1981
E2	118053	LD	C	D	LOOE	NO	5		10/15/1980	1981
E2	118052	LD	C	D	LOOE	NO	5		10/15/1980	1981
E2	118051	LD	C	D	LOOE	NO	5		10/15/1980	1981
E2	118050	LD	C	D	LOOE	NO	5		10/15/1980	1981
E2	118049	LD	C	D	LOOE	NO	5		10/15/1980	1981
E2	118048	LD	C	D	LOOE	NO	5		10/15/1980	1981
E2	118047	LD	C	D	LOOE	NO	5			

ALL	120234 PL	JIM	MARGO	PLR N 1	REMIK JAMES	120233	1200.99	12/30/1980	1981
NE	128730 PL	BIG HORN	07		MILES MARGARET REMIK JAMES SHAFFER RICHARD BROWN	1209123	2/10/1981	0000	

NE	128731 PL	BIG HORN #8	PEARL PARTY	128730	1209:25	2/10/1981	0000
			NOBLE CLIFF				
			SHAFER RICHARD				
			STAND				

WESTWORLD OIL GAS

148593	1259,317	11/03/1981	0000
148593	1259,319	11/03/1981	0000

148629	LD	SP 036	148593	1259	317	11/03/1981	0000
148630	LD	SP 037	148593	1259	319	11/03/1981	0000
148631	LD	SP 038	148593	1259	321	11/03/1981	0000
148632	LD	SP 039	148593	1259	323	11/03/1981	0000
148633	LD	SP 040	148593	1259	325	11/03/1981	0000
148634	LD	SP 041	148593	1259	326	11/03/1981	0000
148635	LD	SP 042	148593	1259	328	11/03/1981	0000
148636	LD	SP 043	148593	1259	330	11/03/1981	0000
148637	LD	SP 044	148593	1259	332	11/03/1981	0000
148638	LD	SP 045	148593	1259	334	11/03/1981	0000
148639	LD	SP 046	148593	1259	336	11/03/1981	0000
148640	LD	SP 047	148593	1259	338	11/03/1981	0000
148641	LD	SP 048	148593	1259	340	11/03/1981	0000
148642	LD	SP 049	148593	1259	342	11/03/1981	0000
148643	LD	SP 050	148593	1259	344	11/03/1981	0000
148644	LD	SP 051	148593	1259	346	11/03/1981	0000
148645	LD	SP 052	148593	1259	348	11/03/1981	0000
148646	LD	SP 053	148593	1259	350	11/03/1981	0000
148647	LD	SP 054	148593	1259	352	11/03/1981	0000
148648	LD	SP 055	148593	1259	354	11/03/1981	0000
148649	LD	SP 056	148593	1259	356	11/03/1981	0000
148650	LD	SP 057	148593	1259	358	11/03/1981	0000
148651	LD	SP 058	148593	1259	360	11/03/1981	0000
148652	LD	SP 059	148593	1259	362	11/03/1981	0000
148653	LD	SP 060	148593	1259	364	11/03/1981	0000
148654	LD	SP 061	148593	1259	366	11/03/1981	0000
148655	LD	SP 062	148593	1259	368	11/03/1981	0000
148656	LD	SP 063	148593	1259	370	11/03/1981	0000
148657	LD	SP 064	148593	1259	372	11/03/1981	0000
148658	LD	SP 065	148593	1259	374	11/03/1981	0000
148659	LD	SP 066	148593	1259	376	11/03/1981	0000
148660	LD	SP 067	148593	1259	378	11/03/1981	0000
148661	LD	SP 068	148593	1259	380	11/03/1981	0000
148662	LD	SP 069	148593	1259	382	11/03/1981	0000
148663	LD	SP 070	148593	1259	384	11/03/1981	0000
148664	LD	SP 071	148593	1259	386	11/03/1981	0000
148665	LD	SP 072	148593	1259	388	11/03/1981	0000
148666	LD	SP 073	148593	1259	390	11/03/1981	0000
148667	LD	SP 074	148593	1259	392	11/03/1981	0000
148668	LD	SP 075	148593	1259	394	11/03/1981	0000
148669	LD	SP 076	148593	1259	396	11/03/1981	0000
148670	LD	SP 077	148593	1259	398	11/03/1981	0000
148671	LD	SP 078	148593	1259	400	11/03/1981	0000
148672	LD	SP 079	148593	1259	402	11/03/1981	0000
148673	LD	SP 080	148593	1259	404	11/03/1981	0000
148674	LD	SP 081	148593	1259	406	11/03/1981	0000
148675	LD	SP 082	148593	1259	408	11/03/1981	0000
148676	LD	SP 083	148593	1259	410	11/03/1981	0000
148677	LD	SP 084	148593	1259	412	11/03/1981	0000
148678	LD	SP 085</					

[illegible]

14852	14853	14854	14855	14856	14857	14858	14859	14860	14861	14862	14863	14864	14865	14866	14867	14868	14869	14870	14871	14872	14873	14874	14875	14876	14877	14878	14879	14880	14881	14882	14883	14884	14885	14886	14887	14888	14889	14890	14891	14892	14893	14894	14895	14896	14897	14898	14899	14900	14901	14902	14903	14904	14905	14906	14907	14908	14909	14910	14911	14912	14913	14914	14915	14916	14917	14918	14919	14920	14921	14922	14923	14924	14925	14926	14927	14928	14929	14930	14931	14932	14933	14934	14935	14936	14937	14938	14939	14940	14941	14942	14943	14944	14945	14946	14947	14948	14949	14950	14951	14952	14953	14954	14955	14956	14957	14958	14959	14960	14961	14962	14963	14964	14965	14966	14967	14968	14969	14970	14971	14972	14973	14974	14975	14976	14977	14978	14979	14980	14981	14982	14983	14984	14985	14986	14987	14988	14989	14990	14991	14992	14993	14994	14995	14996	14997	14998	14999	15000
-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

148556	LD	148593	1259:369	11/10/1981	0000
148555	LD	148593	1259:371	11/10/1981	0000
148554	LD	148593	1259:373	11/10/1981	0000
148553	LD	148593	1259:375	11/10/1981	0000
148552	LD	148593	1259:377	11/10/1981	0000
148551	LD	148593	1259:379	11/10/1981	0000
148550	LD	148593	1259:381	11/10/1981	0000
148549	LD	148593	1259:383	11/10/1981	0000
148548	LD	148593	1259:385	11/10/1981	0000
148547	LD	148593	1259:387	11/10/1981	0000
148546	LD	148593	1259:389	11/10/1981	0000
148545	LD	148593	1259:391	11/10/1981	0000
148544	LD	148593	1259:393	11/10/1981	0000
148543	LD	148593	1259:395	11/10/1981	0000
148542	LD	148593	1259:397	11/10/1981	0000
148541	LD	148593	1259:399	11/10/1981	0000
148540	LD	148593	1259:401	11/10/1981	0000
148539	LD	148593	1259:403	11/10/1981	0000
148538	LD	148593	1259:405	11/10/1981	0000
148537	LD	148593	1259:407	11/10/1981	0000
148536	LD	148593	1259:409	11/10/1981	0000
148535	LD	148593	1259:411	11/10/1981	0000
148534	LD	148593	1259:413	11/10/1981	0000
148533	LD	148593	1259:415	11/10/1981	0000
148532	LD	148593	1259:417	11/10/1981	0000
148531	LD	148593	1259:419	11/10/1981	0000
148530	LD	148593	1259:421	11/10/1981	0000
148529	LD	148593	1259:423	11/10/1981	0000
148528	LD	148593	1259:425	11/10/1981	0000
148527	LD	148593	1259:427	11/10/1981	0000
148526	LD	148593	1259:429	11/10/1981	0000
148525	LD	148593	1259:431	11/10/1981	0000
148524	LD	148593	1259:433	11/10/1981	0000
148523	LD	148593	1259:435	11/10/1981	0000
148522	LD	148593	1259:437	11/10/1981	0000
148521	LD	148593	1259:439	11/10/1981	0000
148520	LD	148593	1259:441	11/10/1981	0000
148519	LD	148593	1259:443	11/10/1981	0000
148518	LD	148593	1259:445	11/10/1981	0000
148517	LD	148593	1259:447	11/10/1981	0000
148516	LD	148593	1259:449	11/10/1981	0000
148515	LD	148593	1259:451	11/10/1981	0000
148514	LD	148593	1259:453	11/10/1981	0000
148513	LD	148593	1259:455	11/10/1981	0000
148512	LD	148593	1259:457	11/10/1981	0000
148511	LD	148593	1259:459	11/10/1981	0000
148510	LD	148593	1259:461	11/10/1981	0000
148509	LD	148593	1259:463	11/10/1981	0000
148508	LD	148593	1259:465	11/10/1981	0000
148507	LD	148593	1259:467	11/10/1981	0000
148506	LD	148593	1259:469	11/10/1981	0000
148505	LD	148593	1259:471	11/10/1981	0000
148504	LD	148593			

198671	LD	148593	1259;403	11/10/1981	0000
5M	SP	148593	1259;405	11/10/1981	0000
5M	SP	148672	1259;405	11/10/1981	0000
5M	SP	148673	1259;407	11/10/1981	0000
5M	SP	148673	1259;407	11/10/1981	0000

[illegible]

15475-D	TIN HORN NO 3	FLEICHER AL	1260;548	12/27/1981	0000
15006-B	TIN HORN NO 3	BURDINE STEVE	1264;620	1/25/1982	0000
15006-B	TIN HORN NO 3	BURDINE STEPHEN			

34	13709 PL	PRINTBUSH	1267430	2/10/1982	0000
35	93519 PL	SMOUBIRD	113710	12/20/1979	0000
		WATSON VIRGIL			
		SMITH EUGEN ROBERTA			
		SMITH FRANKY RONALD			

97174 LD	SMOBIRO	SMITH LINDA JOSIE	1145:0	1/17/1980	1981
		CHESTNUT SANDRA GARY			
		SMITH EMMET L			

NAME	C	D	NO	I	1148:444	1/25/1980	1981
SMITH DIAN E							
DERANS GEORGE							
DERANS MARJORIE							

JENSEN JACKLYN
DENNIS GEORGE L SR
CARERON E H

* * DISCLOSURE * * ALL INFORMATION RECEIVED IN THIS OFFICE MAY NOT YET BE LISTED ON THIS REPORT. NAMES AND ADDRESSES ARE ENTERED AS THEY APPEAR ON THE LOCATION NOTICE OR ARE ABBREVIATED TO FIT LIMITED SPACE; THEREFORE THEY MAY NOT APPEAR IN THE EXPECTED SEQUENCE.

REPORT DATE: JUN 22, 1982
STATE: ARIZONA

PCN: LT892PP1

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

PAGE NO: 3185

MERIDIAN: GILA-SALT R.

GEOGRAPHIC INDEX

LEGAL DESCRIPTION - GEO BLM SERIAL CASE
TANSHIP RANGE SEC SUBDV CTY DIST NO. TYPE

CLAIM NAME/NUMBER CLAIMANT(S)

LEAD COUNTY LOCATION LATEST CASE
FILE BOOK/PAGE DATE ASSMT-YR CLOSED

4 N 20 W 29 NE 27 S 133168 PL	CAJON	BROWN JOHN SEIM CAROLYN	1235,201	6/08/1981	0000	
52	140267 PL	H. B. HILL	1247,980	9/17/1981	0000	
NE	144055 PL	BROWN HAROLD BROWN BERNETTE STEVENS PAUL STEVENS ANNA	1254,722	10/07/1981	0000	
NE	149353 LD	BRAINERD DAVID BRAINERD CAROL BRAINERD DAVID BRAINERD CAROL KENYON MYRON S	149352 1261,885	12/10/1981	0000	
NE	149354 LD	LADY LUCK III	149352 1261,887	12/10/1981	0000	
30 E2 E2 N2 N2	94018 PL 94019 PL 98665 LD 98666 LD 98667 LD 98668 LD 98669 LD 98670 LD 98671 LD 98672 LD 98673 LD 98674 LD 98675 LD	HOPEWELL II HOPE WELLS II SADDLE STAR NO 1 SADDLE STAR NO 2 PACK SACK NO 1 PACK SACK NO 2 PACK SACK NO 3 PACK SACK NO 4 PACK SACK NO 5 PACK SACK NO 6 PACK SACK #7 PACK SACK #8 PACK SACK #9	94018 1137,722 1137,842 1150,988 1150,990 98665 1150,992 98665 1150,995 98665 1150,997 98665 1150,999 98665 1151,01 98665 1151,03 98665 1151,05 98665 1151,07 98665 1151,09	12/21/1979 12/24/1979 2/03/1980 2/03/1980 2/03/1980 2/03/1980 2/03/1980 2/03/1980 2/03/1980 2/03/1980 2/03/1980 2/03/1980	1980 1980 1981 1981 1982 1982 1982 1982 1982 1982 1982 1982	
SM SM SM SE	102348 LD 102349 LD 102350 LD 124541 PL	BLACK BOAR #2 BLACK BOAR #3 BLACK BOAR #4 RESERVATION #2	102348 1126,105 102349 1126,107 102350 1126,108 124532 1210,64	8/26/1979 8/26/1979 8/26/1979 2/11/1981	1982 1982 1982 0000	
52	144776 LD	PROSPECTORS PICK	1256,791	12/01/1981	0000	
SM	161262 PL	LAST MAGNET PLACERS	1272,481	3/16/1982	0000	
52 NM NM NM NM NM NM NM NM NM NM NM NM	163429 LD 105436 LD 105437 LD 105438 LD 105439 LD 105440 LD 105441 LD 105442 LD 105443 LD 105444 LD 105445 LD 105446 LD	BLACK BOAR EXT SE #23 SE #24 SE #25 SE #26 SE #27 SE #28 SE #29 SE #30 SE #31 SE #32 SE #33	1274,744 1168,687 1168,689 1168,691 1168,693 1168,695 1168,697 1168,699 1168,701 1168,703 1168,705 1168,707	3/15/1982 4/05/1980 4/05/1980 4/05/1980 4/05/1980 4/05/1980 4/05/1980 4/05/1980 4/05/1980 4/05/1980 4/05/1980 4/05/1980	0000 1981 1981 1981 1981 1981 1981 1981 1981 1981 1981 1981	

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ATTACHMENT A

Name of Claim	BLM Serial Number AMC No.	La Paz County Book	Page
SE #1-52	105414-105465	1168	643-746
SE #57-62	105466-105471	1168	747-758
SE #101-120	186704-186723	1303	729-770

RECEIVED
B.L.M. AZ STATE OFFICE
DEC 31 1985

07.45 A.M.
PHOENIX, ARIZONA

"Postmarked timely" AH

AFFIDAVIT OF PERFORMANCE OF ANNUAL WORK

State of Arizona)
) ss.
County of La Paz)

I, Richard J. Lundin
of 372 Hackberry Circle
Prescott, Arizona 86301

being duly sworn according to law deposes and says that he is a citizen of the United States more than eighteen years of age and that all of the facts set forth in this affidavit are true and correct according to the best of his knowledge, information and belief.

That he is personally acquainted with the mining claims named in Attachment A that are situate in the Middle Camp Mining District, La Paz County, Arizona, the location of which are recorded in the office of the County Recorder of that County in various Books and Pages. (see Attachment A) Notices of Location are posted located in Sections 6,7,18, Township 12N, Range 2E, G&SRB&M.

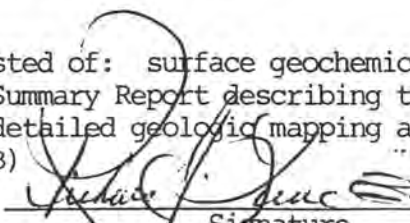
That between the dates of September 1, 1984 and August 31, 1985 at least Eight Thousand Three Hundred (\$8,300,00) dollars worth of work and improvements were made and performed upon this claim not including location work.

The work and improvements were made by and at the expense of Walter E. Heinrichs, James D. Loghry, William C. Hirt and Richard J. Lundin, owners of the property for the purpose of complying with the laws of the United States pertaining to assessments or annual work.

Richard J. Lundin, James D. Loghry, Michael Russ, William Fiern, and Chris Herald were the names of the persons employed by the owners who labored to do the work and improvements. All of the above mentioned individuals are senior Geologists or Mining Engineers with many years experience in all phases of mineral exploration.

The work and improvements done consisted of: surface geochemical surveys, and the preparation of a Summary Report describing the results of an integrated program of detailed geologic mapping and geophysical studies. (See Attachment B)

Dated 11/27/85


Signature

Subscribed to and sworn before me, a Notary Public, this 27th day of November, 1985, by Richard J. Lundin

My Commission expires 1/25/89

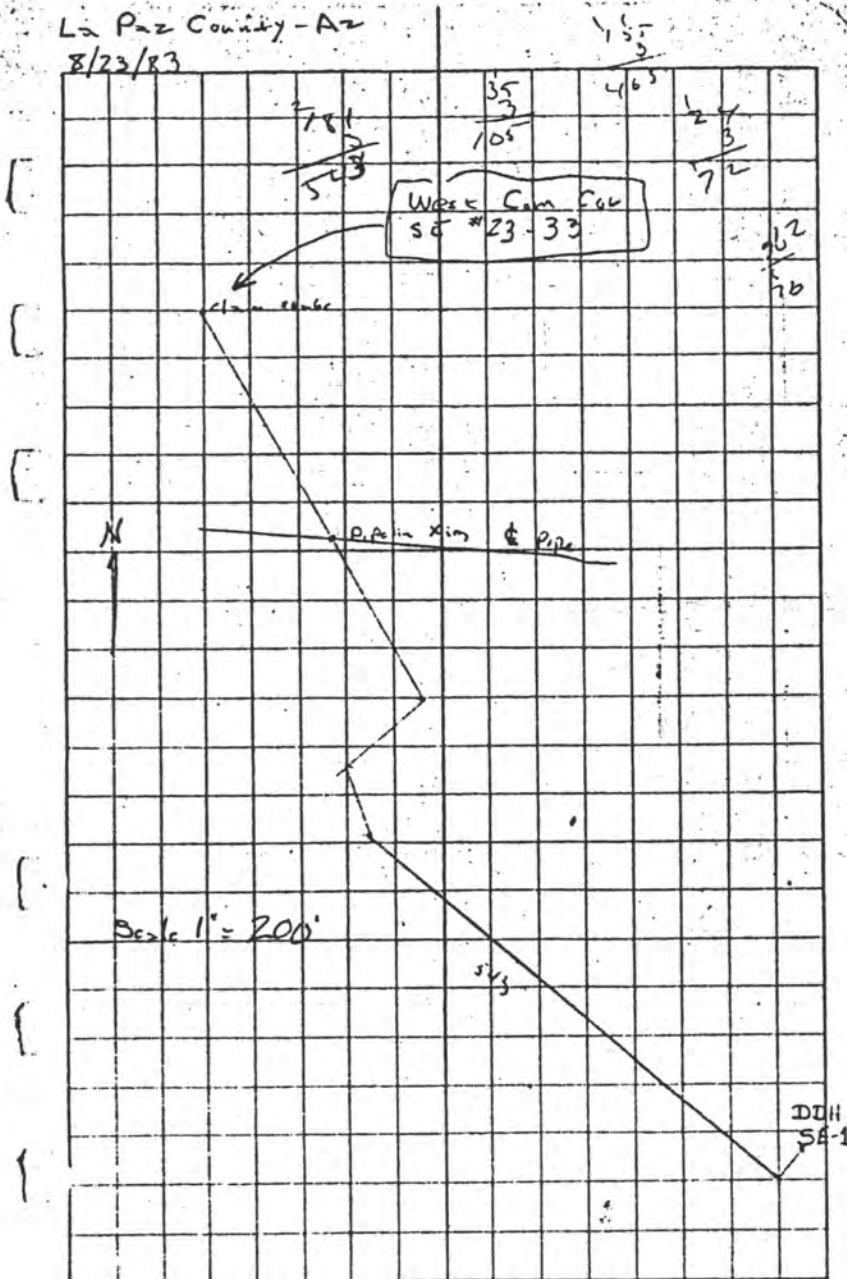
Kathryn S. Smith

Notary Public

"Postmarked timely" 1/4

RECEIVED
B.L.M. AZ STATE OFFICE
DEC 31 1985
07:45 A.M.
PHOENIX, ARIZONA

La Paz County - Az
8/23/83



Surveyed Location
Drill Hole SE-1

F.W. Mack
8/83



CHEMEX LABS LTD.

212 BROOKSBANK AVE
NORTH VANCOUVER, B.C.
CANADA V7J 2C1

TELEPHONE: (604) 984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO : AMOCO MINERALS COMPANY
U.S.A. MINERALS EXPLORATION DIVISION
P.O. BOX 3986
7200 SOUTH ALTON WAY
ENGLEWOOD, COLORADO 80155

CERT. # : A8316681-001-A
INVOICE # : I8316681
DATE : 7-DEC-83
P.O. # : NONE
E-82-109-8

ATTN: FRANK MACK CC: AMOCO MINERALS

Sample description	Prep code	Cu ppm	AU-AA ppb				
F 2633	205	32	10	--	--	--	--
F 2634	205	35	<10	--	--	--	--
F 2635	205	57	<10	--	--	--	--
F 2636	205	138	<10	--	--	--	--
F 2637	205	1080	<10	--	--	--	--
F 2638	205	5600	<10	--	--	--	--
F 2639	205	5500	<10	--	--	--	--
F 2640	205	2800	<10	--	--	--	--
F 2641	205	965	<10	--	--	--	--
F 2642	205	>10000	20	--	--	--	--
F 2643	205	4500	10	--	--	--	--
F 2644	205	485	<10	--	--	--	--
F 2645	205	4900	<10	--	--	--	--
F 2646	205	3900	10	--	--	--	--
F 2647	205	560	<10	--	--	--	--
F 2648	205	195	<10	--	--	--	--
F 2649	205	110	<10	--	--	--	--
F 2650	205	165	<10	--	--	--	--

SE Claims / Ariz State Permit
FW Mack Mapping + Sampling
1983



MEMBER
CANADIAN TESTING
ASSOCIATION

Certified by

Hart Buchler

AMOCO MINERALS COMPANY
333 W. Hampden Ave., Suite 508
Englewood, Colorado, 80110
(303) 761-5921

F 2633

Name FULLER Date 11/12/83
Project LA PAZ District _____
Quad _____ Sec. _____ T. _____ R. _____
Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
ROCK SAMPLE Rock Type Qtz. matrix porph
Color _____ Texture _____
% Qtz _____ % Feld _____ % Mafics _____ % Grdm _____
Alteration: silicified - calcareous
Mineralization: Fe Limonite, J _____ G _____ H _____
% Pyrite _____
Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

AMOCO MINERALS COMPANY
333 W. Hampden Ave., Suite 508
Englewood, Colorado, 80110
(303) 761-5921

F 2636

Name FULLER Date 11/14/83
Project LA PAZ District _____
Quad _____ Sec. _____ T. _____ R. _____
Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
ROCK SAMPLE Rock Type intrusive schist
Color _____ Texture _____
% Qtz _____ % Feld _____ % Mafics _____ % Grdm _____
Alteration: silicified w/ clay pit
Mineralization: Limonite, J _____ G _____ H _____
% Pyrite _____
Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

AMOCO MINERALS COMPANY
333 W. Hampden Ave., Suite 508
Englewood, Colorado, 80110
(303) 761-5921

F 2634

Name FULLER Date 11/14/83
Project LA PAZ District _____
Quad _____ Sec. _____ T. _____ R. _____
Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
ROCK SAMPLE Rock Type _____
Color _____ Texture _____
% Qtz _____ % Feld _____ % Mafics _____ % Grdm _____
Alteration: bleached - oxidized
Mineralization: Limonite, J _____ G _____ H _____
% Pyrite _____
Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

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Englewood, Colorado, 80110
(303) 761-5921

F 2637

Name FULLER Date 11/14/83
Project LA PAZ District _____
Quad _____ Sec. _____ T. _____ R. _____
Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
ROCK SAMPLE Rock Type _____
Color _____ Texture _____
% Qtz _____ % Feld _____ % Mafics _____ % Grdm _____
Alteration: silicified - strongly oxidized
Mineralization: Limonite, J _____ G _____ H _____
% Pyrite _____
Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

AMOCO MINERALS COMPANY
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Englewood, Colorado, 80110
(303) 761-5921

F 2635

Name FULLER Date 11/14/83
Project LA PAZ District _____
Quad _____ Sec. _____ T. _____ R. _____
Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
ROCK SAMPLE Rock Type Qtz matrix porph
Color _____ Texture _____
% Qtz _____ % Feld _____ % Mafics _____ % Grdm _____
Alteration: oxidized - carbonized
Mineralization: Limonite, J _____ G _____ H _____
% Pyrite _____
Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

AMOCO MINERALS COMPANY
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(303) 761-5921

F 2638

Name FULLER Date 11/14/83
Project LA PAZ District _____
Quad _____ Sec. _____ T. _____ R. _____
Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
ROCK SAMPLE Rock Type _____
Color _____ Texture _____
% Qtz _____ % Feld _____ % Mafics _____ % Grdm _____
Alteration: silicified (at various)
Mineralization: Limonite, J _____ G _____ H _____
% Pyrite _____
Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

AMOCO MINERALS COMPANY
333 W. Hampden Ave., Suite 508
Englewood, Colorado, 80110
(303) 761-5921

F 2639

Name Fuller Date 11/15/83
Project La Paz District _____
Quad. _____ Sec. _____ T. _____ R. _____
Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
ROCK SAMPLE Rock Type g.p.a.p
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdm
Alteration: oxidized
Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite CuOx
Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

AMOCO MINERALS COMPANY
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Englewood, Colorado, 80110
(303) 761-5921

F 2642

Name Fuller Date 11/15/83
Project La Paz District _____
Quad. _____ Sec. _____ T. _____ R. _____
Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
ROCK SAMPLE Rock Type ?
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdm
Alteration: highly siliceous
Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite Cu₂S, MnO
Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

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Englewood, Colorado, 80110
(303) 761-5921

F 2640

Name Fuller Date 11/15/83
Project La Paz District _____
Quad. _____ Sec. _____ T. _____ R. _____
Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
ROCK SAMPLE Rock Type g.m.p
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdm
Alteration: oxidized, carbonized
Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite CuOx, MnO
Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

AMOCO MINERALS COMPANY
333 W. Hampden Ave., Suite 508
Englewood, Colorado, 80110
(303) 761-5921

F 2643

Name Fuller Date 11/15/83
Project La Paz District _____
Quad. _____ Sec. _____ T. _____ R. _____
Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
ROCK SAMPLE Rock Type _____
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdm
Alteration: _____
Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite _____
Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

AMOCO MINERALS COMPANY
333 W. Hampden Ave., Suite 508
Englewood, Colorado, 80110
(303) 761-5921

F 2641

Name Fuller Date 11/15/83
Project La Paz District _____
Quad. _____ Sec. _____ T. _____ R. _____
Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
ROCK SAMPLE Rock Type Qtz. vein
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdm
Alteration: oxidized
Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite CuOx
Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

AMOCO MINERALS COMPANY
333 W. Hampden Ave., Suite 508
Englewood, Colorado, 80110
(303) 761-5921

F 2644

Name Fuller Date 11/15/83
Project La Paz District _____
Quad. _____ Sec. _____ T. _____ R. _____
Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
ROCK SAMPLE Rock Type pegmatite intr.
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdm
Alteration: clay altered, oxidized
Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite _____
Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

AMOCO MINERALS COMPANY
333 W. Hampden Ave., Suite 508
Englewood, Colorado, 80110
(303) 761-5921

F 2645

(Name Fuller Date 11/15/83
Project La Paz District _____
Quad _____ Sec. _____ T. _____ R. _____
(Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
(ROCK SAMPLE Rock Type monzonite intrusive
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdm
Alteration: extreme clay alteration,
oxidized
Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite CuOx, MnO
(Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

AMOCO MINERALS COMPANY
333 W. Hampden Ave., Suite 508
Englewood, Colorado, 80110
(303) 761-5921

F 2646

(Name Fuller Date 11/15/83
Project La Paz District _____
Quad _____ Sec. _____ T. _____ R. _____
(Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
(ROCK SAMPLE Rock Type monzonite intrusive
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdm
Alteration: oxidized
Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite CuOx, MnO
(Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

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Englewood, Colorado, 80110
(303) 761-5921

F 2647

(Name Fuller Date 11/15/83
Project La Paz District _____
Quad _____ Sec. _____ T. _____ R. _____
(Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
(ROCK SAMPLE Rock Type monzonite intrusive
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdm
Alteration: oxidized
Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite _____
(Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

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F 2648

(Name Fuller Date 11/15/83
Project La Paz District _____
Quad _____ Sec. _____ T. _____ R. _____
(Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
(ROCK SAMPLE Rock Type _____
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdm
Alteration: _____
Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite _____
(Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

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F 2649

(Name Fuller Date 11/15/83
Project La Paz District _____
Quad _____ Sec. _____ T. _____ R. _____
(Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
(ROCK SAMPLE Rock Type _____
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdm
Alteration: _____
Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite _____
(Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

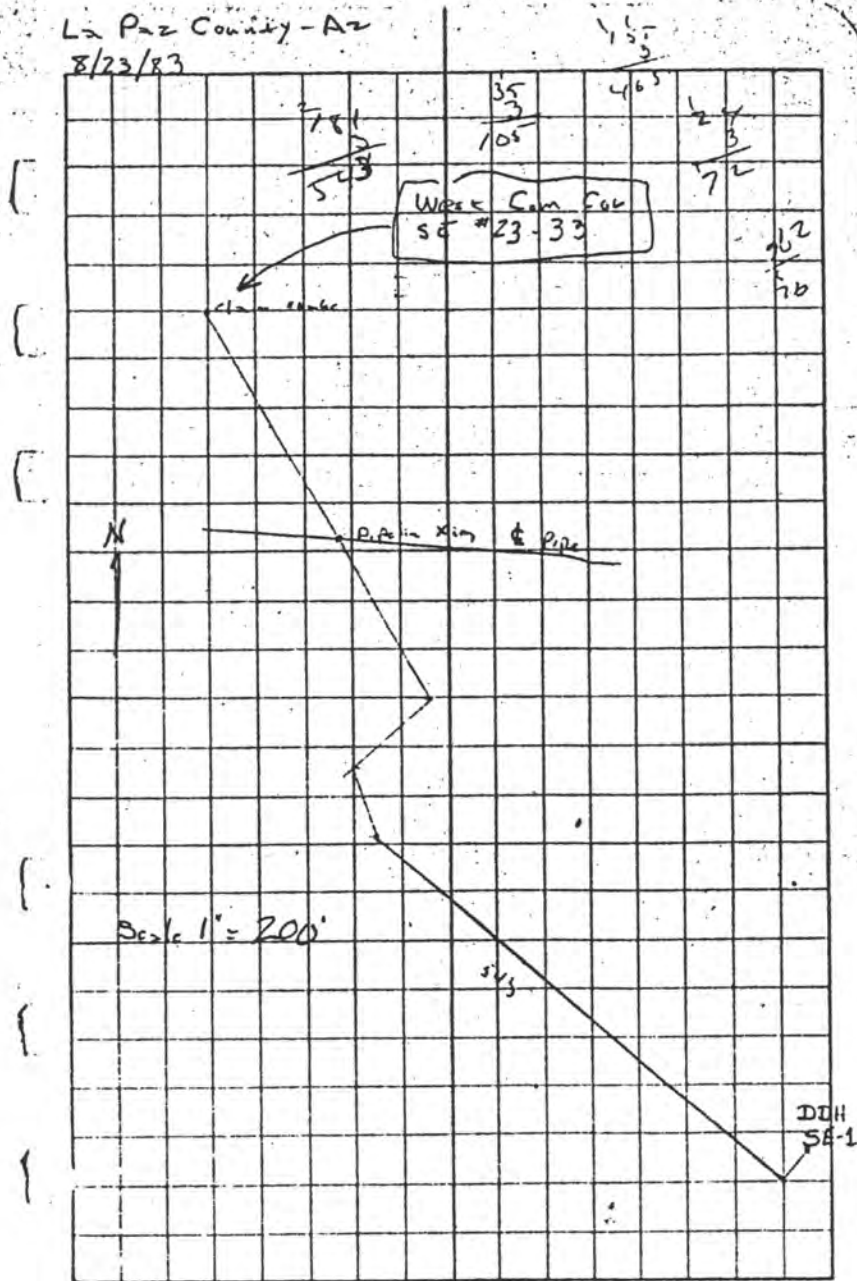
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333 W. Hampden Ave., Suite 508
Englewood, Colorado, 80110
(303) 761-5921

F 2650

(Name Fuller Date 11/15/83
Project La Paz District _____
Quad _____ Sec. _____ T. _____ R. _____
(Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
(ROCK SAMPLE Rock Type _____
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdm
Alteration: _____
Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite _____
(Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

La Paz County - Az

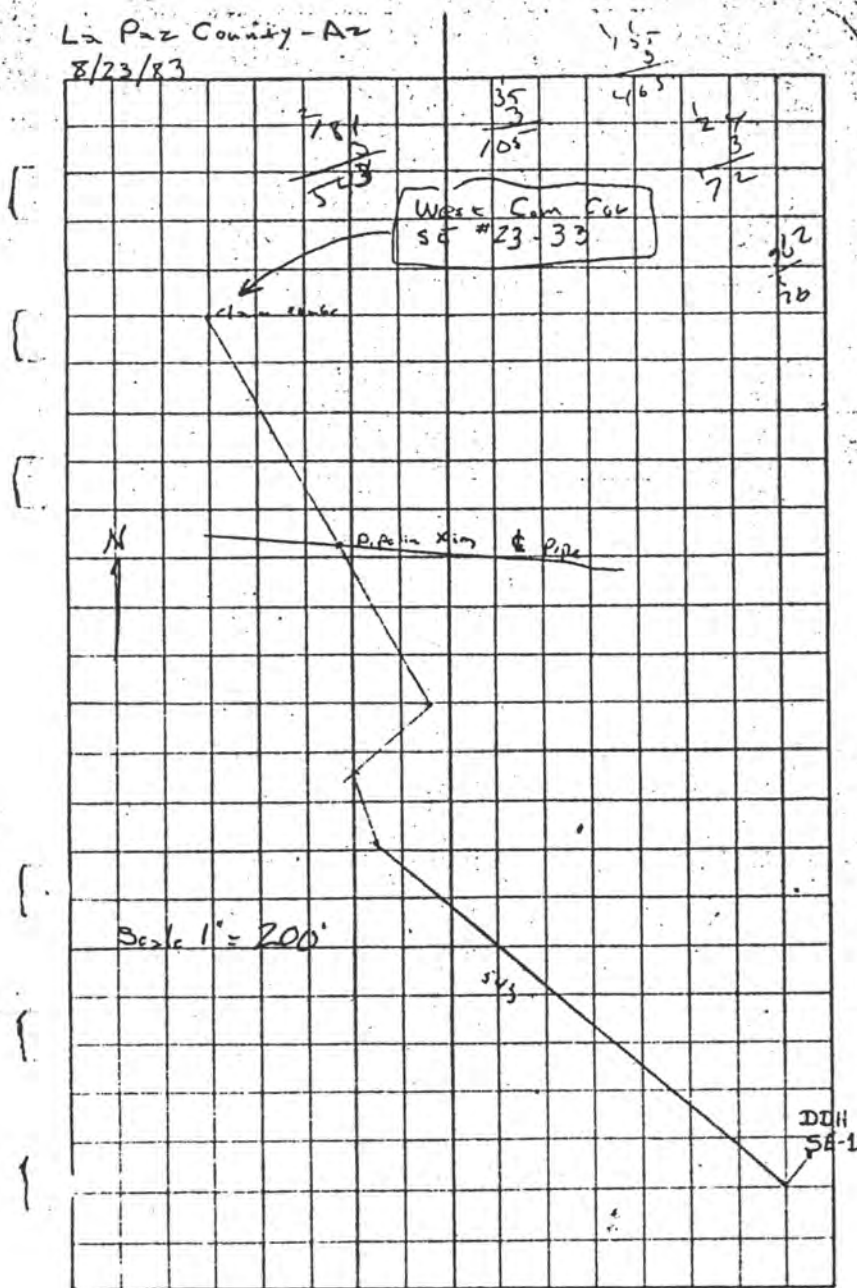
8/23/83



Surveyed Location
Drill Hole SE-1

F.W. Mack
8/83

La Paz County - Az
8/23/83



Surveyed Location
Drill Hole SE-1

F.W. Mack
8/83

AMOCO MINERALS COMPANY
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(303) 761-5921

F 2633

Name FULLER Date 11/12/83
Project LA PAZ District _____
Quad _____ Sec _____ T _____ R _____
Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
ROCK SAMPLE Rock Type Qtz. matrix, porph
Color _____ Texture _____
% Qtz _____ % Feld _____ % Mafics _____ % Grdm _____

Alteration: silicified - calcareous
silicified str Fe ch. crosscut by Qtz veins
Mineralization: Limonite, J _____ G _____ H _____
% Pyrite _____

Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

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333 W. Hampden Ave., Suite 508
Englewood, Colorado, 80110
(303) 761-5921

F 2636

Name FULLER Date 11/14/83
Project LA PAZ District _____
Quad _____ Sec _____ T _____ R _____
Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
ROCK SAMPLE Rock Type Intensive schist
Color _____ Texture _____
% Qtz _____ % Feld _____ % Mafics _____ % Grdm _____

Alteration: schistose w/ clay pit.
Mineralization: Limonite, J _____ G _____ H _____
% Pyrite _____

Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

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(303) 761-5921

F 2634

Name FULLER Date 11/14/83
Project LA PAZ District _____
Quad _____ Sec _____ T _____ R _____
Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
ROCK SAMPLE Rock Type _____
Color _____ Texture _____
% Qtz _____ % Feld _____ % Mafics _____ % Grdm _____

Alteration: bleached - oxidized
Mineralization: Limonite, J _____ G _____ H _____
% Pyrite _____

Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

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(303) 761-5921

F 2637

Name FULLER Date 11/14/83
Project LA PAZ District _____
Quad _____ Sec _____ T _____ R _____
Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
ROCK SAMPLE Rock Type _____
Color _____ Texture _____
% Qtz _____ % Feld _____ % Mafics _____ % Grdm _____

Alteration: silicified - strongly oxidized
Mineralization: Limonite, J _____ G _____ H _____
% Pyrite _____

Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

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F 2635

Name FULLER Date 11/14/83
Project LA PAZ District _____
Quad _____ Sec _____ T _____ R _____
Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
ROCK SAMPLE Rock Type Qtz matrix, porph
Color _____ Texture _____
% Qtz _____ % Feld _____ % Mafics _____ % Grdm _____

Alteration: oxidized - carbonized
Mineralization: Limonite, J _____ G _____ H _____
% Pyrite _____

Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

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Englewood, Colorado, 80110
(303) 761-5921

F 2638

Name FULLER Date 11/14/83
Project LA PAZ District _____
Quad _____ Sec _____ T _____ R _____
Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
ROCK SAMPLE Rock Type _____
Color _____ Texture _____
% Qtz _____ % Feld _____ % Mafics _____ % Grdm _____

Alteration: silicified (Qtz veins) - strongly oxidized - carbonate
Mineralization: Limonite, J _____ G _____ H _____
% Pyrite _____

Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

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Englewood, Colorado, 80110
(303) 761-5921

F 2639

(Name Fuller Date 11/15/83
Project La Paz District _____
Quad _____ Sec. _____ T. _____ R. _____
(Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
(ROCK SAMPLE Rock Type g.m.p.
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdm

Alteration: oxidized

Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite CuOx

(Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

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Englewood, Colorado, 80110
(303) 761-5921

F 2642

(Name Fuller Date 11/15/83
Project La Paz District _____
Quad _____ Sec. _____ T. _____ R. _____
(Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
(ROCK SAMPLE Rock Type ?
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdm

Alteration: clay altered, oxidized

Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite Cu, Fe, MnO

(Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

AMOCO MINERALS COMPANY
333 W. Hampden Ave., Suite 508
Englewood, Colorado, 80110
(303) 761-5921

F 2640

(Name Fuller Date 11/15/83
Project La Paz District _____
Quad _____ Sec. _____ T. _____ R. _____
(Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
(ROCK SAMPLE Rock Type g.m.p.
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdm

Alteration: oxidized, carbonate

Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite CuOx, MnO

(Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

AMOCO MINERALS COMPANY
333 W. Hampden Ave., Suite 508
Englewood, Colorado, 80110
(303) 761-5921

F 2643

(Name Fuller Date 11/15/83
Project La Paz District _____
Quad _____ Sec. _____ T. _____ R. _____
(Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
(ROCK SAMPLE Rock Type _____
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdm

Alteration: _____

Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite _____

(Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

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Englewood, Colorado, 80110
(303) 761-5921

F 2641

(Name Fuller Date 11/15/83
Project La Paz District _____
Quad _____ Sec. _____ T. _____ R. _____
(Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
(ROCK SAMPLE Rock Type Qtz vein
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdm

Alteration: oxidized

Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite CuOx

(Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

AMOCO MINERALS COMPANY
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(303) 761-5921

F 2644

(Name Fuller Date 11/15/83
Project La Paz District _____
Quad _____ Sec. _____ T. _____ R. _____
(Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
(ROCK SAMPLE Rock Type carbonate inter.
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdm

Alteration: clay altered, oxidized

Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite _____

(Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

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(303) 761-5921

F 2645

(Name Fuller Date 11/15/83
Project La Paz District _____
Quad _____ Sec. _____ T. _____ R. _____
(Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
(ROCK SAMPLE Rock Type igneous intrusive
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grd
Alteration: extreme clay alteration, oxidized
Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite Cu, Mn
(Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

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Englewood, Colorado, 80110
(303) 761-5921

F 2646

(Name Fuller Date 11/15/83
Project La Paz District _____
Quad _____ Sec. _____ T. _____ R. _____
(Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
(ROCK SAMPLE Rock Type igneous intrusive
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grd
Alteration: oxidized
Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite Cu, Mn
(Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

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(303) 761-5921

F 2647

(Name Fuller Date 11/15/83
Project La Paz District _____
Quad _____ Sec. _____ T. _____ R. _____
(Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
(ROCK SAMPLE Rock Type igneous intrusive
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grd
Alteration: oxidized
Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite _____
(Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

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333 W. Hampden Ave., Suite 508
Englewood, Colorado, 80110
(303) 761-5921

F 2648

(Name Fuller Date 11/15/83
Project La Paz District _____
Quad _____ Sec. _____ T. _____ R. _____
(Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
(ROCK SAMPLE Rock Type _____
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grd
Alteration: _____
Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite _____
(Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

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(303) 761-5921

F 2649

(Name Fuller Date 11/15/83
Project La Paz District _____
Quad _____ Sec. _____ T. _____ R. _____
(Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
(ROCK SAMPLE Rock Type _____
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grd
Alteration: _____
Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite _____
(Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

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333 W. Hampden Ave., Suite 508
Englewood, Colorado, 80110
(303) 761-5921

F 2650

(Name Fuller Date 11/15/83
Project La Paz District _____
Quad _____ Sec. _____ T. _____ R. _____
(Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
(ROCK SAMPLE Rock Type _____
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grd
Alteration: _____
Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite _____
(Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

**WOMBAT MINING COMPANY**

3425 W. Bardot St.

Tucson, Arizona 85741

October 13, 1985

Mr. R. W. McPherson, Vice President-Finance
Haber Inc.
470 Main Rd., Towaco NJ 07082

Dear Mr. McPherson:

As per our conversations of yesterday, please find enclosed copies of information on the SE holdings in the La Paz-Middle Camp Mining District, La Paz County, AZ. As you know, Jim Lohry, Walt Heinrichs, Bill Hirt and I hold the SE claim group and I was responsible for the discovery of the adjacent Westworld-AMSELCO deposit(see figure 1 enclosed). Recently, Haber Chemical Co. has issued a series of announcements that it has a major, "world-class" gold system associated with an extensive vein system that outcrops at the Goodman mine and continues on to the southeast and disappears under alluvial cover. The system appears to cross the Parker Holdings and has been found to extend through our holdings onto the holdings of Westworld-AMSELCO. Recent work on our ground by Gulf Minerals delineated a series of Mercury geochemical anomalies along the buried trace of this system and three, large and extensively fractured areas with surface gold values up to 25 ppm Au/T. (.729 ozs. Au/T.). Recent drilling (reportedly up to 50 shallow holes) in two of these areas on the Westworld-AMSELCO claims has delineated up to 100,000,000 tons of material that would contain 1.5 million ounces of gold and 25 million ounces of silver(Dausinger, N.E.,(1981)). There has been no drilling in the adjacent area of alteration and anomalous gold values on the SE claims but sampling efforts of Labradorex and Echo Bay have turned up gold values up to 5.0 ppm Au/T. (.146 ozs. Au/T.) This area of intense alteration and anomalous gold values is found in the hanging wall of another low-angle shear system that is parallel to the Goodman vein-shear system. Past drilling along this system to the northwest by Royal Investment Corp. and Kerr-McGee Corp. delineated a 3-10 million ton copper-gold system that outcrops along the Interstate. This system may dip into the Goodman vein-shear system at depth according to some Anschutz seismic data that I saw in 1969.

After discussing the situation with my partners, it was decided that we would be willing to deal with Haber, Inc. on a lease/option or sale basis. I was appointed agent for the partnership and asked to follow up this letter with a meeting with your technical people on the ground. Towards this end and in light of our conversations, I have enclosed some summary



WOMBAT MINING COMPANY

3425 W. Bardot St.

Tucson, Arizona 85741

information on the SE group. Some of it is quite old and reflects our thoughts prior to my work on the Westworld SP property. It and our recently compiled and published Property Submittal Sheet should give you some basic data on the property. Also enclosed is a rough copy of our Geological and Geochemical Sample Location Map with the various company sample locations and values plotted. We have the original company data and are currently working on a more detailed surface map of the gold-rich area in sections 32 and 5. The various company samples are indicated thus:

N=Newmont
ASE=American Selco
G=Gulf Minerals
FMC=FMC Corp.
AM=AMOCO
QT=Texas Gulf
SE=Wallaby Enterprises
A=AMAX
LTL & LJW=Labradorex
BC=Bear Creek
W=Wallaby Enterprises for Westworld Oil & Gas
U=Utah International
F=Felmont

Currently, both Gold Fields and Echo Bay are looking at the property and have both expressed an interest in a lease/option agreement.

The deal that we have specifically in mind is outlined below and is similar to the agreements that we had with AMOCO and Gulf Minerals.

Purchase Price: \$12,000,000 or \$6,000,000 + a PERPETUAL NSR OR EQUIVALENT ROYALTY OF 4% ON FEDERAL LAND AND 2% ON STATE LAND. ALL PAYMENTS, INCLUDING PRODUCTION ROYALTIES ARE APPLICABLE TO THE PURCHASE PRICE.

Payments toward Purchase Price:

1st Year: \$12,000.00
2nd Year: \$18,000.00
3rd Year: \$24,000.00
4th Year: \$30,000.00
5th Year: \$36,000.00

ALL PAYMENTS, EXCEPTING PRODUCTION ROYALTIES, STRUCTURED AS CAPITAL GAINS. 5 YEAR TERM TO THE AGREEMENT.



WOMBAT MINING COMPANY

3425 W. Badol St.

Tucson, Arizona 85747

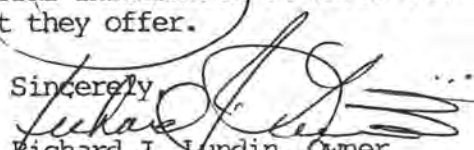
Notice: 90 DAY NOTICE REQUIRED PRIOR TO DROPPING THE CLAIMS.
ANNUAL LABOR MUST BE PERFORMED IF CLAIMS HELD BEYOND FEBRUARY 1
OF ANY YEAR.

Work Requirement: \$7,800.00 WORTH OF DRILLING DURING THE 1985-
1986 ASSESSMENT WORK PERIOD.

Payment Schedule: ALL PAYMENTS MUST BE PAID AT THE BEGINNING OF
EACH LEASE PERIOD.

I hope that this letter will answer most of your questions
and provide a starting point for a mutually beneficial business
relationship. I have also included some general information on
other properties that I have an ownership interest through Wombat
Mining Company am listing through our Mining Property Brokerage,
IREN/Western Property Specialists Inc. and am managing through
our geologic consulting company, Wallaby Enterprises Inc. In
addition, I have included some general information on these other
organizations and the services that they offer.

Sincerely,


Richard J. Lundin, Owner
Wombat Mining Co. & President,
Wallaby Enterprises Inc.



WOMBAT MINING COMPANY

3425 W. Borden St.

Tucson, Arizona 85741

April 1981

SE Claims Summary Sheet

The SE claims are in the Middle Camp-Oro Fino mining district in the Dome Rock Mountains in Yuma County, Arizona. The claims are immediately south of Interstate 10, about eight miles west of Quartzsite, Arizona and about thirteen miles east of Blythe, California. The claim group consists of ⁷⁸~~58~~ lode claims, located in sections 31 and 32 T4N R20W, sections 5 and 6 T3N R20W, and section 36 T4N R21W, totalling about 1120 acres. This area is shown on the Middle Camp Mountain USGS 7 1/2 minute topographic map. The claims bear US BLM Serial Numbers AMC 105414 through AMC 105471. They were staked in 1980.

Ownership of the claims rests with four Arizona residents, each with a one quarter undivided interest. These people are Walter E. Heinrichs, Jr., William C. Hirt, James D. Loghry, and Richard J. Lundin, all of Tucson, Arizona.

The exploration target is a porphyry copper-molybdenum deposit. During the period 1962-1975, mapping, sampling and rotary and diamond exploration drilling totalling approximately 18,500 feet was done by several concerns, one of them a major oil and mining company. Results of some of this work are available and are included as a part of this submittal. We feel that the mineralization disclosed thus far warrants further investigation.

Further information may be obtained by writing to any of the four owners at the above address or by telephoning 602-623-0578.



WOMBAT MINING COMPANY

3425 W. Bardot St.

Tucson, Arizona 85741

June 12, 1981

SE Claims Geological Synopsis

The SE claims are in the Middle Camp - Oro Fino Mining District in Yuma County, Arizona. Past production from the district includes over 12,000 ounces of gold with 1500 ounces of contained silver from placer operations and minor production of lead, zinc, copper, gold and silver from several small lode mines.

The dominant rocks exposed within the district in the Dome Rock Mountains are Precambrian schist and granite. In the SE claim area, these rocks have been intruded by a stock of probable Laramide age. Extrusion of a Tertiary quartz porphyry flow followed; outcrops of this rock are found capping Sugarloaf Peak and scattered north of I-10. Late Tertiary gravels and Quaternary alluvium lap up onto the mountains.

Porphyry copper-type alteration is well developed within the claim area; alteration types include propylitic, pyritic, phyllic, and potassic. The original geometric relations between the various alteration zones have been obscured by structural dislocations along faults.

Surface geochemical sampling has disclosed anomalous lead, zinc, molybdenum, bismuth, and tin values.

Primary copper mineralization (disseminated chalcopyrite now partially oxidized to various copper oxide minerals) is found on the surface in the Hancock Wash area (Hancock Wash is the large wash in the south half of section 31 T4N R20W). This mineralization is associated with a block of exposed potassic alteration.

A minimum of 18,500 feet of recorded rotary and core drilling has been carried out in the Sugarloaf Peak area by various companies; data from some of this drilling is available in addition to other reports and maps and is included in the larger body of text which is available on request. The reader's attention is drawn to DDH Q-1 through Q-6. These holes were drilled in the Hancock Wash area intercepting schist and quartz monzonite (a phase of the



WOMBAT MINING COMPANY

34425 W. Bardot St.

Tucson, Arizona 85747

Laramide (?) intrusive). DDH Q-1, which was drilled mostly in schist, had intercepts of 200 feet of about 0.6% copper from the surface to a depth of about 200 feet; the copper is in the form of brochantite, chrysocolla, and malachite, partly disseminated and partly on fractures, and also disseminated and veinlet chalcopryite. There is a further 30 feet of approximately 0.6% copper (disseminated chalcopryite - bornite) at 400 - 430 feet. The mineralization in Q-1 is associated with sericite and biotite alteration.

DDH Q-3 intercepted 203 feet of 0.43% copper mineralization, mostly in quartz monzonite, from about 190 feet to about 400 feet of depth. The mineralization is in the form of chalcopryite associated with phyllic alteration (quartz-sericite-pyrite).

Increased amounts of molybdenum are associated with the copper mineralization intercepted in DDH Q-1 and Q-3, and probably elsewhere as well.

In DDH Q-6 was found 50 feet of 0.2% copper in a faulted block of quartz monzonite. The mineralization is chalcopryite associated with quartz-sericite-pyrite alteration and some tourmaline.

Tourmaline was noted in all of the Q holes, but most strongly in holes Q-2, Q-4, and Q-6, both disseminated and in veinlets.

Many of the earmarks of economic porphyry copper deposits found elsewhere in the Southwest are present in the Sugarloaf Peak area. These include the Pb-Zn-Mo geochemical anomalies, the well developed and widespread alteration zoning, presence of abundant alunite and tourmaline, and outcrops of disseminated copper mineralization in a potassic alteration zone. All these favorable geological characteristics taken with the data gathered thus far, indicate that more work is warranted to test for the presence of economic quantities of disseminated copper - molybdenum mineralization in the Sugarloaf Peak area.

William C. Hirt
Geological Engineer
and Metallurgist

May 1981

SE Claims Data and Reports

(in approximate chronological order)

1. McPhar Geophysics IP and Resistivity Survey Location Map (Fig.3), undated but probably between 1962 and 1971.
2. Report titled "Base Metal Distribution at Sugarloaf Peak, Quartzsite Mining District, Yuma County, Arizona" dated August 1971, text 4 pp., with drill hole data including core logs, drill chip logs, and metal ratio graphs for drill holes DDH S-1, DDH S-2, DDH S-3, DDH SL-4, DDH SL-5, DDH SL-6, RH SL-7, RH S-8, RH S-10, RH SL-13, and DDH SL-15 (these are partly rotary and partly core holes), accompanied by map titled "Generalized Alteration - Sugarloaf Peak Area", dated August 1971 (two copies, one with outline of claim block), and also by another map (undated) entitled "Dome Rock Mtns Quad" which shows the location of the S and SL holes.
3. Assay logs for RH V-1 through RH V-15 (all rotary drill holes except for three feet of NX core on hole RH V-15), drilled in 1972.
4. Report titled "Exploration Potential of the Sugarloaf Peak Area, Quartzsite Mining District, Yuma County, Arizona" dated May 25, 1973, 12 pp., with 3 pp. cover letter, accompanied by maps:
 - a. "Alteration Map - Sugarloaf Peak Prospect", May 25, 1973.
 - b. Molybdenum Geochemical Values, Lead Geochemical Values, and Mo/Pb Ratio Maps, all of the Sugarloaf Peak Prospect, dated May 1973.
 - c. Cross Section through Sugarloaf Peak, dated May 1973.
 - d. Magnetometer Survey Profiles, dated May 1973.
5. Assay and Core Logs for DDH Q-1 through Q-6 (NX core holes drilled in 1974-1975).
6. Map titled "Quartzsite Geology and Alteration" dated February 1975 showing location of Q holes.
7. Map titled "Quartzsite Project, Yuma County, Arizona", dated May 30, 1975 showing location of Q holes.
8. Undated Map showing drill hole locations and claim block outline.
9. Geologic Map of the Central Dome Rock Mountains by W. J. Crowl, 1975 (University of Arizona thesis).
10. SE Claim Group Map, 1980.

PROPERTY SUBMITTAL

1. Mineral Commodity(ies): Cu,Au,Ag,Mo
2. Location: Sections: 31,32,5,6,36 Twp.: 3N,4N Range: 20W & 21W
County: La Paz State: AZ
Property Name: SE (Stray Elephant) Group
Property I.D. Number: WOM05
3. Land Controlled
 - a) Mining Claims: 78 unpatented lode claims
 - b) Fee Leases: N/A
 - c) Federal Leases: N/A
 - d) State Leases: 320 acres under State of Arizona Prospecting Permit
 - e) Indian Leases: N/A
4. Information available
 - a) Geologic Report: Numerous unpublished company reports by Royal Investment Corp., Kerr-McGee Corp., Gulf Minerals Corp. Wallaby Enterprises Inc., AMOCO Minerals Inc.-all available
 - b) Drill Hole Data: 12 core or rotary holes have been drilled on the property by Royal Investment Corp., Kerr-McGee Corp. & AMOCO Minerals Inc.- partially available
 - c) Assay Data: Royal Investment Corp., Kerr-McGee, Newmont, Gulf Minerals, AMSELCO, Texasgulf Western, Labradorex, AMAX, First Mississippi Corp., Pelmont Oil Co., FMC, Echo Bay, Meridian Minerals and Wallaby Enterprises Inc.-all available
 - d) Feasibility Study: N/A
 - e) Other:
5. Production History (if any): minor, high grade Cu-Au-Ag production.
6. Offering Conditions
 - a) Are there any limitations on access to information or to the site? There are no restrictions on the data. Anyone visiting the property should be accompanied by the owner's representative.

b. Size range of the deposit: According to a Royal Investment Corp. Report on the property, the drill indicated reserves of the copper-rich portion of the property are reported at 3,600,000 tons of mixed oxide and sulphide copper bearing ore that would probably average 1.575% Cu/T., .002 ozs. Au/T. On the basis of later work, Kerr-McGee personnel estimated that the reserve potential might be in the order of 10,000,000 tons of material that would average 1% Cu.

The potential tonnage of the gold-rich portion of the system is unknown at this time. On the adjacent SP property of Westworld Oil & Gas, a recently completed, shallow, drilling program delineated a potential of up to 100,000,000 tons of material that would contain 1.5 million ounces of gold and 25 million ounces of silver (Dausinger, N.E. (1983) It is felt that a major portion of this system extends on to the SE claim group.

c) Is the primary interest to sell the property or to obtain a joint venture partner? The owners are primarily interested in a lease/option arrangement.

d) May the property be shown on an exclusive basis?

The property may be shown on a cooperative listing basis with IREN/WPS Inc.

7. Owner or Person to contact

Name: Richard J. Lundin, owner

Wombat Mining Co. (25% owner & agent)

Address: 1555 Iron Springs Rd. #39, Prescott AZ 86301

Phone: (602) 445-9354 (office)

8. General Comments(optional): The property is an old Copper-Gold-Silver producer. Past drilling efforts by several major mining companies delineated a near-surface Cu-Au system. Recent work has delineated extensive areas of intense low-angle shearing and alunite-sericite alteration and silicification with associated gold and molybdenum mineralization. In the gold-rich portion of the property are bodies of strongly fluidized breccia that have anomalous gold contents (up to 5.00 ppm Au/T.)

From the data at hand, it appears that there is the potential for a 5,000,000-10,000,000 ton copper-silver-gold deposit in the copper-rich portion of the property and several other large gold-silver-molybdenum deposits in the gold-rich portion. The gold-rich portion of the property has not been tested by drilling. Ore-grade drillholes on the adjacent SP group are within 500' of the eastern boundary of the common SE claim boundary.

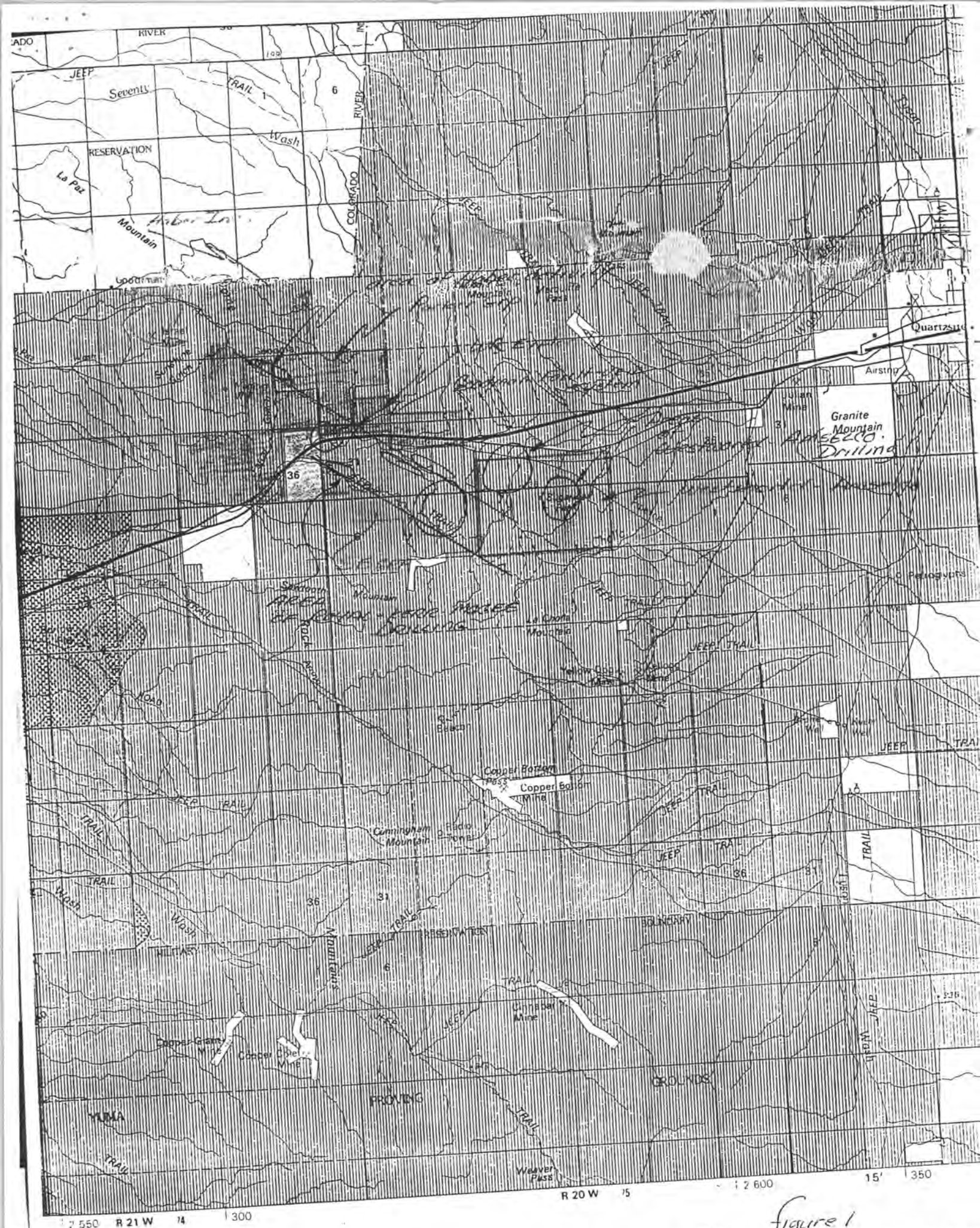


Figure 1

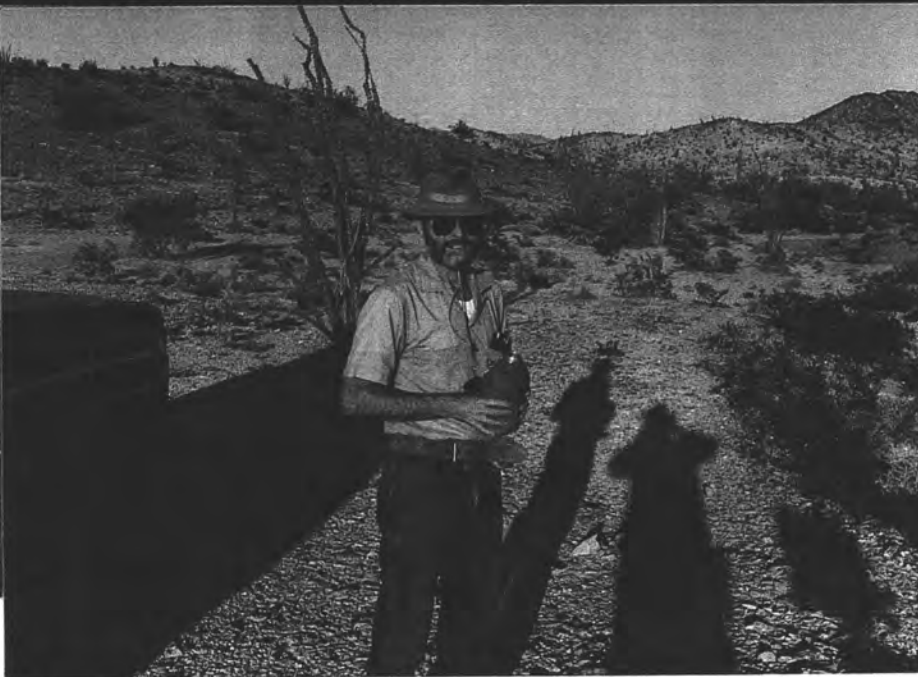
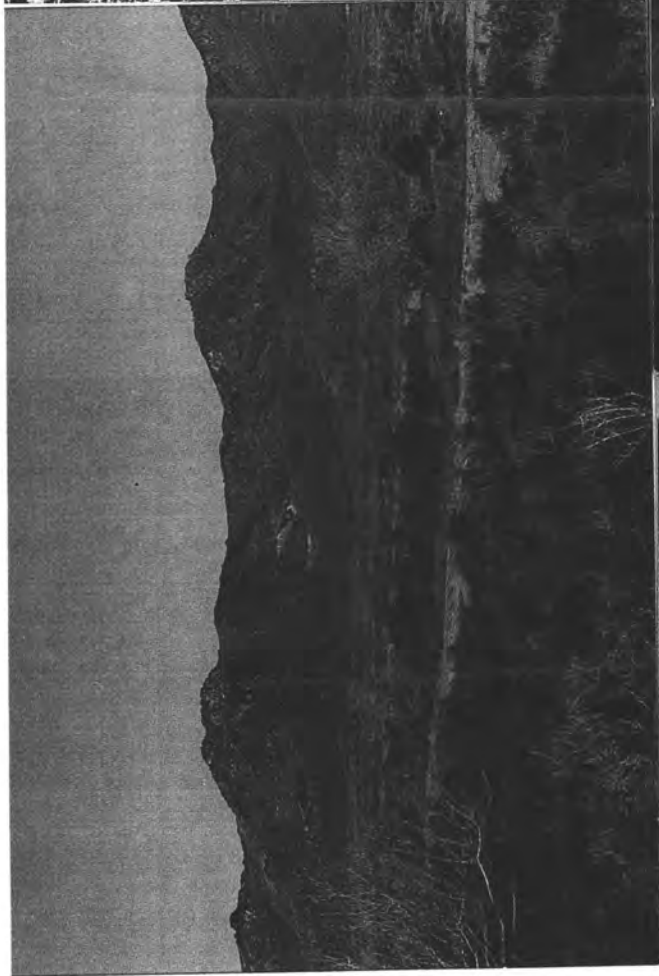
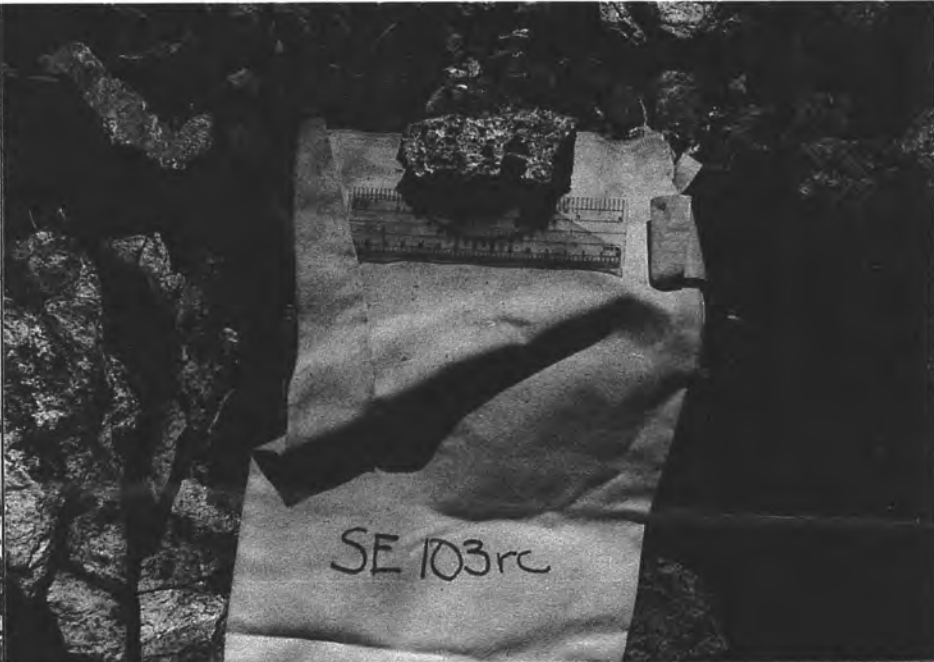
geochemical anomalies

R. J. Lundy

CALIFORNIA

Western Property Specialists, Inc.
1555 Iron Springs Road, Suite 39
Prescott, Arizona 86301

P.O. Box 1086
1617 Sheward Drive
Prescott AZ



STATEMENT OF COSTS OF WORK
SE #23 THROUGH SE #30, SE #33 THROUGH SE #40,
AND SE #43 THROUGH SE #51 MINING CLAIMS
LA PAZ COUNTY, ARIZONA

October, 1983

1. Salaries and Benefits:

A. G. Humphrey (1 day)	\$ 365.24
F. W. Mack (3 days)	728.58
M. L. Fuller (7 days)	739.72

2. Room and Board Expenses:

A.G. Humphrey (1 day)	52.00
F. W. Mack (3 days)	104.00
M. L. Fuller (7 days)	364.00

3. Geochemical Sample Analyses:	169.00
Total:	<u>\$ 2,522.54</u>

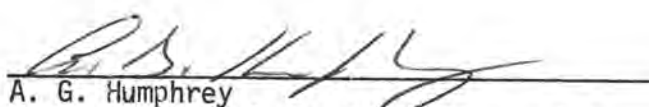

A. G. Humphrey
Manager, Minerals Exploration - U.S.A.
Amoco Minerals Company
Englewood, Colorado

February 2, 1984
Date

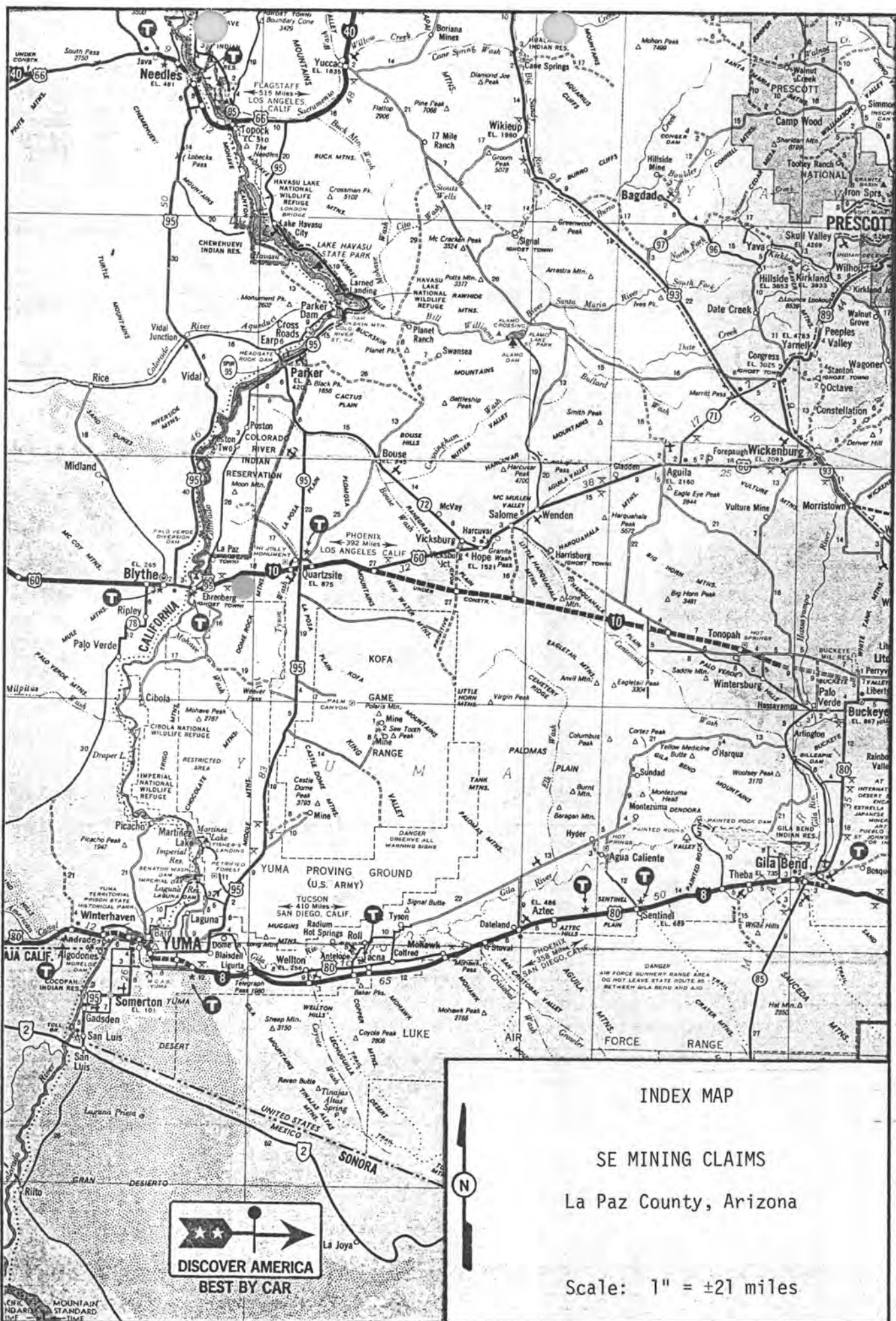
STATEMENT OF QUALIFICATIONS

I, A. G. Humphrey, residing at 5798 South Galena Street, Englewood, Colorado:

- Possess a B. A. Degree in Geology from DePauw University, Greencastle, Indiana, 1950.
- Possess an M. S. Degree in Geology from the University of Colorado, Boulder, Colorado, 1955.
- Have continuously practiced the profession of mining geology since 1955.
- Am Manager, Minerals Exploration - U.S.A. for Amoco Minerals Company, Englewood, Colorado, in charge of all exploration activities for that Company in the United States.
- Am a Registered Professional Geologist (No. 156) in the State of Idaho.


A. G. Humphrey
Manager, Minerals Exploration - U.S.A.
Amoco Minerals Company
Englewood, Colorado

Feb. 2, 1984
Date

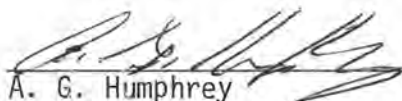


Geologic Report on the
SE #23 Through SE #30, SE #33 Through SE #40 and
SE #43 Through SE #51 Mining Claims, La Paz County, Arizona

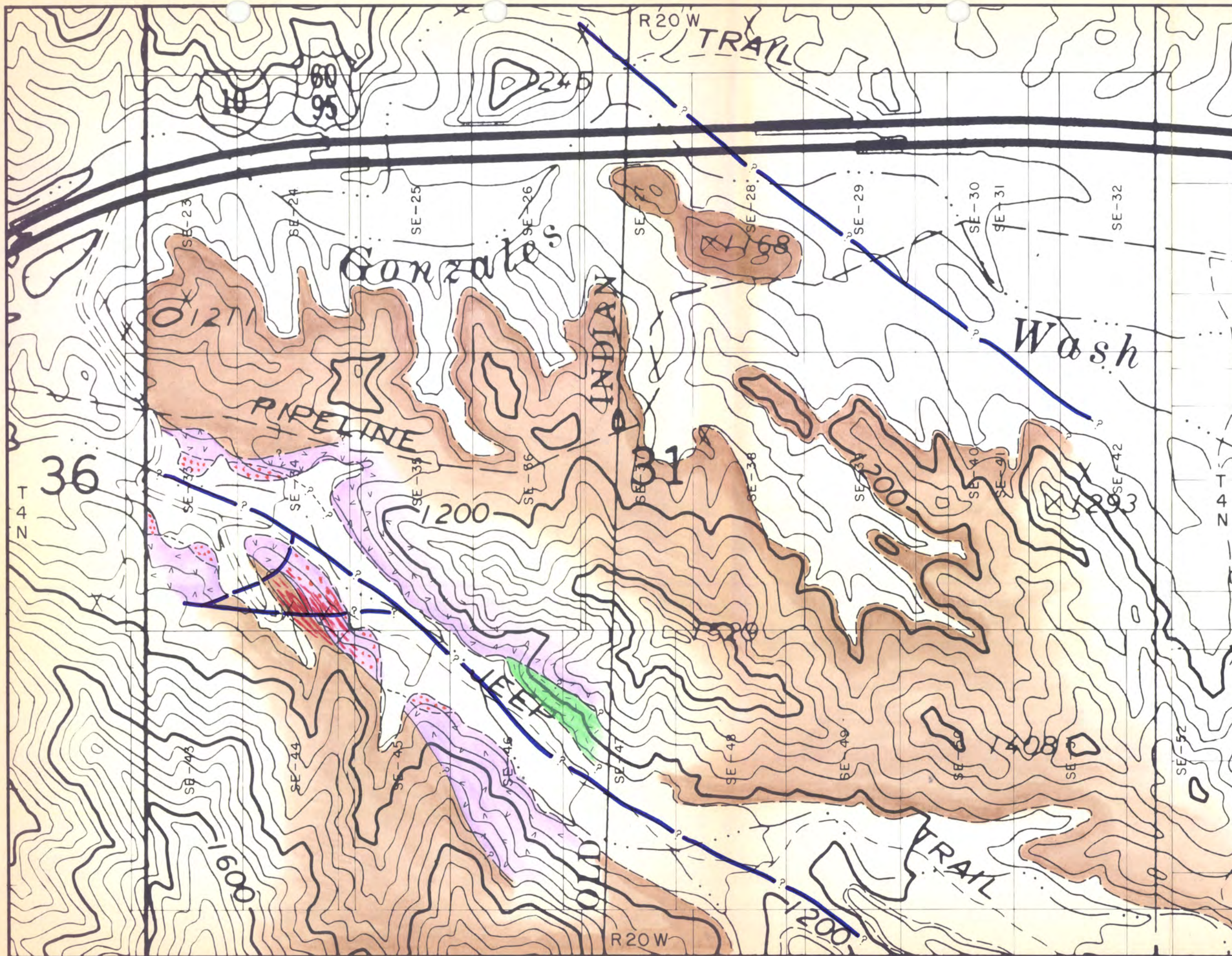
During the latter portion of October, 1983 geologic mapping on a scale of one inch to 500 feet and geochemical sampling was accomplished over the SE #23 through SE #30, SE #33 through SE #40 and SE #43 through SE #51 mining claims in southwestern La Paz County, Arizona. The location of these claims is shown on the accompanying Index Map.

The geology of the mapped area consists of schists and felsic to intermediate volcanics. The volcanic rocks and, to a lesser extent, the schists have been moderately to strongly silicified and display considerable iron staining. The volcanic rocks have been invaded by a felsic intrusive in the vicinity of the SE #46 and SE #47 claims.

Weak to moderate copper-oxide mineralization is evident over local areas in the western part of the claim group. Moderate to quite intense copper-oxide mineralization may be observed in the vicinity of the SE #34, SE #35, SE #44 and SE #45 claims. This mineralization, occurring both in schist and the volcanic rocks is accompanied by moderate to strong iron staining and manganese oxides. A copy of the geologic map constructed during the examination of the mining claims is included with this report.

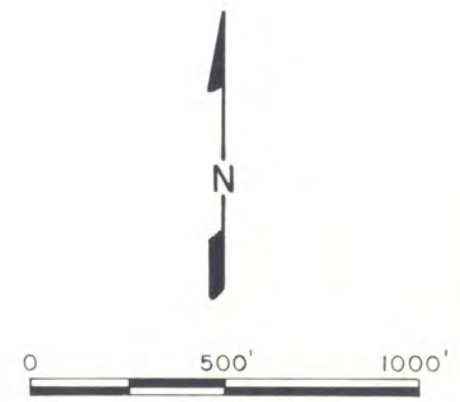

A. G. Humphrey
Manager, Minerals Exploration - U.S.A.
Amoco Minerals Company
Englewood, Colorado

February 2, 1984
Date



EXPLANATION

- Iron Staining
- Copper Oxide Mineralization
- Felsic Intrusive
- Metavolcanics
- Schist
- Fault



GEOLOGIC MAP
SE CLAIMS
Nos. 23-30 & Nos. 33-52
La Paz Co., Arizona
1" = 500' 2-21-84

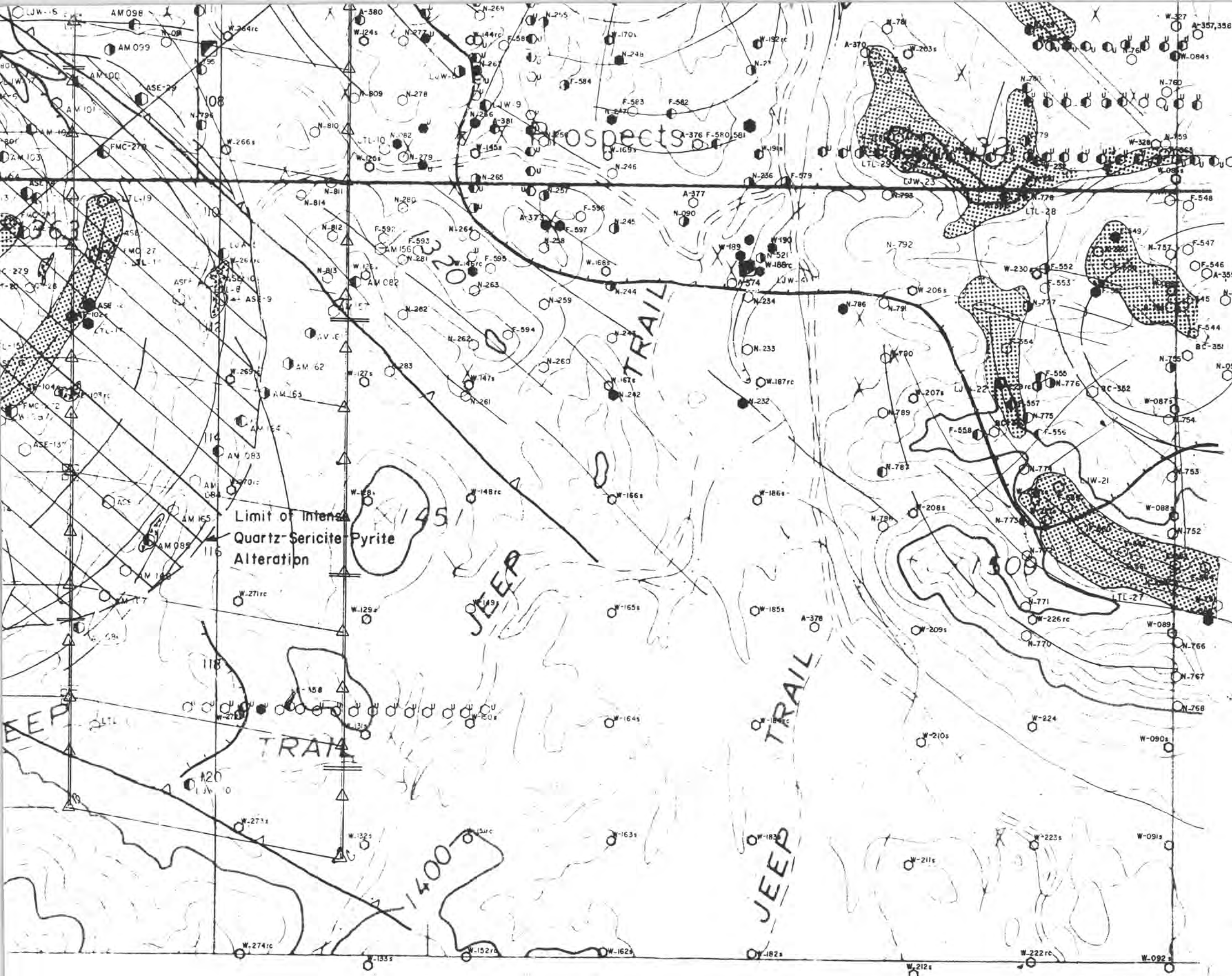



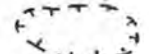

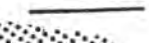







FIGURE 1:
GEOLOGIC & GEOCHEMICAL
SAMPLE LOCATION MAP
SE CLAIM GROUP
YUMA COUNTY ARIZONA


SCALE 1"=500'


EXPLANATION


-  LOCATION MONUMENT
-  SAMPLE SITES
-  ANOMALOUS GOLD ZONES
-  ANOMALOUS COPPER ZONES
-  LOW ANGLE FAULT
-  LINEAR STRUCTURES
-  ANOMALOUS SILICIFIED ZONES
-  <0.02 to 0.02 ppm Au
-  0.03 to 0.29 ppm Au
-  0.30 to 0.99 ppm Au
-  >1.0 ppm Au

WALLABY
ENTERPRISES
INC.



 Breccia Zones

 1984-1985 Geochemical Sample Sites

 1984-1985 Radiometric/ULF-EM Traverses

 ULF-EM Crossovers

EXPLANATION



<0.02-0.02 ppm Au



0.03-0.29 ppm Au



0.3 -0.99 ppm Au



>1.0 ppm Au

REPORT DATE: JUN 22, 1982
STATE: ARIZONA

PCN: L1892PP1

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

PAGE NO: 3791

PERIDIAN: GILA-SALT R.

GEOGRAPHIC INDEX

- LEGAL DESCRIPTION - GEO BLM SERIAL CASE
TOWNSHIP RANGE SEC SUBV CTY DIST NO. TYPE

CLAIM NAME/NUMBER CLAIMANT(S)

LEAD COUNTY LOCATION LATEST CASE
FILE BOOK PAGE DATE ASSMT-YR CLOSED

4 N 20 W 32 NE 27 S 101810 PL B B PLACERS	BROWN WILLMA BEHM GEORGE BEHM ANN ARENS RAYMOND J H GEODEXPLORATION CO	1157,696	4/09/1980	1981	
SE 103190 LD R J MINE		1160,922	4/24/1980	1982	
NW 103414 LD SE #1		1168,643-	4/05/1980	1981	
NW 103415 LD SE #2		1168,645-	4/05/1980	1981	
W2 103416 LD SE #3		105414 1168,647-	4/06/1980	1981	
SW 103417 LD SE #4		105414 1168,649-	4/06/1980	1981	
SW 103418 LD SE #5		105414 1168,651-	4/05/1980	1981	
SW 103419 LD SE #6		105414 1168,653-	4/05/1980	1981	
SW 103420 LD SE #7		105414 1168,655-	4/06/1980	1981	
N2 103425 LD SE #12		105414 1168,665-	4/05/1980	1981	
N2 103426 LD SE #13		105414 1168,667-	4/05/1980	1981	
AL 103427 LD SE #14		105414 1168,669-	4/06/1980	1981	
S2 103428 LD SE #15		105414 1168,671-	4/06/1980	1981	
S2 103429 LD SE #16		105414 1168,673-	4/05/1980	1981	
S2 103430 LD SE #17		105414 1168,675-	4/05/1980	1981	
S2 103431 LD SE #18		105414 1168,677-	4/05/1980	1981	
NW 103445 LD SE #32		105414 1168,705-	4/05/1980	1981	
W2 103445 LD SE #32		105414 1168,725-	4/05/1980	1981	
SW 103465 LD SE #52		105414 1168,745-	4/09/1980	1981	
ALL 105982 PL MONEY MEKERSITE	SPOON-OUR DAVID A SPOON-OUR MILDRED BEADRY ROBERT N BRKER GEARD A BRKER VIOLET ASCHRAFT RAY HARRIS WILFORD JONTGARD PAL	105981 1160,535-	4/21/1980	1981	
SE 117129 PL HEB PLACER #1	LEGER HENRY LEGER EUNICE GREEN IRVIN	1193,82	11/13/1980	1981	
SE 118095 LD C D LODG NO 7	ROBISON ELMO ROBISON NANCY	118090 1197,6	10/15/1980	1981	
E2 118096 LD C D LODG NO 8	LEGER HENRY LEGER EUNICE GREEN IRVIN	1197,8	10/15/1980	1981	
N2 119417 PL HEB #7	LEGER HENRY LEGER EUNICE KINCAID JOE KINCAID SHERI BROWN LOU BROWN WILLMA GREEN IRVIN GREEN PAMELA FROMBERG JEFFREY E MAG TECH SYSTEMS INC BROWN JOHN	1196,994	11/13/1980	1981	
SE 120412 LD J S		1201,138	1/05/1981	1981	
N2 130878 PL WILLOW PLACERS		1229,158	6/01/1981	0000	
W2 132360 PL C D #3A		1232,724	5/27/1991	0000	
SE 133168 PL CAJON		1235,201	6/08/1981	0000	

* * DISCLOSURE * * ALL INFORMATION RECEIVED IN THIS OFFICE MAY NOT YET BE LISTED ON THIS REPORT, NAMES AND ADDRESSES ARE ENTERED AS THEY APPEAR ON THE LOCATION NOTICE OR ARE ABBREVIATED TO FIT LIMITED SPACE; THEREFORE THEY MAY NOT APPEAR IN THE EXPECTED SEQUENCE.

REPORT DATE: JUN 22, 1982

STATE: ARIZONA

PCN: L7892PPI

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

MERIDIAN: GILA-SALT R.

GEOGRAPHIC INDEX

PAGE NO: 3160

LEGAL DESCRIPTION: GEO BLM SERIAL CASE
TOWNSHIP RANGE SEC SUBDV CTY DIST NO. TYPE

CLAIM NAME/NUMBER CLAIMANT(S)

LEAD COUNTY LOCATION LATEST CASE
FILE BOOK:PRICE DATE ASSMT-YR CLOSED

3 N	20 E	3 SE	27 S	5	148595 LD	SP 03	148595	1259:249	11/03/1981	0000		
SE					148596 LD	SP 04	148596	1259:251	11/03/1981	0000		
E2					148597 LD	SP 05	148597	1259:253	11/03/1981	0000		
NE					148598 LD	SP 06	148598	1259:255	11/03/1981	0000		
NE					148599 LD	SP 07	148599	1259:257	11/03/1981	0000		
N2					148600 LD	SP 08	148600	1259:259	11/03/1981	0000		
N2					148609 LD	SP 017	148609	1259:259	11/03/1981	0000		
ALL					148611 LD	SP 019	148611	1259:277	11/03/1981	0000		
S2					148612 LD	SP 020	148612	1259:283	11/03/1981	0000		
S2					148613 LD	SP 021	148613	1259:285	11/03/1981	0000		
S2					148614 LD	SP 022	148614	1259:287	11/03/1981	0000		
S2					148615 LD	SP 023	148615	1259:289	11/03/1981	0000		
S2					148616 LD	SP 024	148616	1259:291	11/03/1981	0000		
S2					148617 LD	SP 025	148617	1259:293	11/03/1981	0000		
S2					148618 LD	SP 026	148618	1259:295	11/03/1981	0000		
S2					148619 LD	SP 027	148619	1259:297	11/03/1981	0000		
S2					148620 LD	SP 028	148620	1259:299	11/03/1981	0000		
S2					148621 LD	SP 029	148621	1259:301	11/03/1981	0000		
S2					148622 LD	SP 030	148622	1259:303	11/03/1981	0000		
S2					148623 LD	SP 031	148623	1259:305	11/03/1981	0000		
S2					148624 LD	SP 032	148624	1259:307	11/03/1981	0000		
S2					148625 LD	SP 033	148625	1259:309	11/03/1981	0000		
S2					148626 LD	SP 034	148626	1259:311	11/03/1981	0000		
S2					148627 LD	SP 035	148627	1259:313	11/03/1981	0000		
S2					148628 LD	SP 036	148628	1259:315	11/03/1981	0000		
S2					148629 LD	SP 037	148629	1259:317	11/03/1981	0000		
S2					148630 LD	SP 038	148630	1259:319	11/03/1981	0000		
S2					148631 LD	SP 039	148631	1259:321	11/03/1981	0000		
S2					148632 LD	SP 040	148632	1259:323	11/03/1981	0000		
S2					148633 LD	SP 041	148633	1259:325	11/03/1981	0000		
S2					148634 LD	SP 042	148634	1259:327	11/03/1981	0000		
S2					148635 LD	SP 043	148635	1259:329	11/03/1981	0000		
S2					148636 LD	SP 044	148636	1259:331	11/03/1981	0000		
S2					148637 LD	SP 045	148637	1259:333	11/03/1981	0000		
S2					148638 LD	SP 046	148638	1259:335	11/03/1981	0000		
S2					148639 LD	SP 047	148639	1259:337	11/03/1981	0000		
S2					148640 LD	SP 048	148640	1259:339	11/03/1981	0000		
S2					148641 LD	SP 049	148641	1259:341	11/03/1981	0000		
S2					148642 LD	SP 050	148642	1259:343	11/03/1981	0000		

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ROBISON E B
ROBISON NANCY
LEGER HENRY
KINCAID JOE
KINCAID SHEPHERD
OHNSON JIMMY
ESTWOLD OIL

117129 1193:88 11/13/1980 1981
1203:496 1/14/1981 1981
1204:395 1/10/1981 1981
148593 1259:325 11/03/1981 0000
148593 1259:327 11/03/1981 0000
148593 1259:329 11/03/1981 0000
148593 1259:331 11/03/1981 0000
148593 1259:333 11/03/1981 0000
148593 1259:335 11/03/1981 0000
148593 1259:337 11/03/1981 0000
148593 1259:339 11/03/1981 0000
148593 1259:341 11/03/1981 0000
148593 1259:343 11/03/1981 0000

Au, par
(Rock Sample)



HEINRICHS GEOEXPLORATION COMPANY

P. O. BOX 5964, TUCSON, ARIZONA 85703. 806 WEST GRANT ROAD. PHONE: (602) 623-0578

January 1982

SE Property Summary Sheet

The SE property is in the Middle Camp-Oro Fino mining district in the Dome Rock Mountains in Yuma County, Arizona. The property is on Interstate 10, about eight miles west of Quartzsite, Arizona and about thirteen miles east of Blythe, California. The property consists of 58 lode claims, located in sections 31 and 32 T4N R20W, sections 5 and 6 T3N R20W, and section 36 T4N R21W, totalling about 1120 acres and a state prospecting permit on the east half of section 36 T4N R21W. This area is shown on the Middle Camp Mountain and La Paz Mountain USGS 7 1/2 minute topographic maps. The claims bear US BLM Serial Numbers AMC 105414 through AMC 105471. They were staked in 1980.

Ownership rests with four Arizona residents, each with a one quarter undivided interest. They are Walter E. Heinrichs, Jr., William C. Hirt, James D. Loghry, and Richard J. Lundin, all of Tucson, Arizona.

Exploration targets include porphyry copper-molybdenum and/or gold deposits. During the period 1962-1975, mapping, sampling and rotary diamond exploration drilling totalling approximately 18,500 feet was done by several concerns, one of them a major oil and mining company. Results of some of this work are available to interested parties. We feel that the mineralization disclosed thus far warrants further investigation.

Further information may be obtained by contacting any of the four owners at the above address.

January 1982

SE Property Data and Reports
(in approximate chronological order)

1. McPhar Geophysics IP and Resistivity Survey Location Map (Fig.3), undated but probably between 1962 and 1971.
2. Report titled "Base Metal Distribution at Sugarloaf Peak, Quartzsite Mining District, Yuma County, Arizona" dated August 1971, text 4 pp., with drill hole data including core logs, drill chip logs, and metal ratio graphs for drill holes DDH S-1, DDH S-2, DDH S-3, DDH SL-4, DDH SL-5, DDH SL-6, RH SL-7, RH S-8, RH S-10, RH SL-13, and DDH SL-15 (these are partly rotary and partly core holes), accompanied by map titled "Generalized Alteration - Sugarloaf Peak Area", dated August 1971 (two copies, one with outline of claim block), and also by another map (undated) entitled "Dome Rock Mtns Quad" which shows the location of the S and SL holes.
3. Assay logs for RH V-1 through RH V-15 (all rotary drill holes except for three feet of NX core on hole RH V-15), drilled in 1972.
4. Report titled "Exploration Potential of the Sugarloaf Peak Area, Quartzsite Mining District, Yuma County, Arizona" dated May 25, 1973, 12 pp., with 3 pp. cover letter, accompanied by maps:
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8. Undated Map showing drill hole locations and claim block outline.
9. Geologic Map of the Central Dome Rock Mountains by W. J. Crowl, 1975 (University of Arizona thesis).
10. SE Property Map 1982

February 22, 1984

the effective date that we became ethically tied up by Amoco, that \$3,200.00 worth of State work needed to be done to maintain the State Prospecting Permit. If it was your intent to tie the Federal work obligation anniversary of 1 April also to the State ground as well, then you were definitely NOT protecting our interests as lessors.*

Effectively, we were in the sole possession of the State Permit (that is, without any Amoco involvements) for less than three months whereas Amoco was in actual possession, by agreement for six months and, we held it exclusively for Amoco's benefit for an additional two months (the time it took you to draft the agreement) which makes a total Amoco benefit of eight months.

We had verbal promises from both Messers Humphrey and Nesbitt that we would be kept reasonably informed regarding Amoco progress and thus, obviously having no inkling whatsoever to the contrary, were not concerned about having to cover the State permit obligations for Amoco. Then to be suddenly faced with having to assume the obligation and get it done in only six weeks puts us in a very untenable position to say the least.

Before we consider seeking legal advice regarding any legal rights we may have regarding the matter, we wish to appeal first to Amoco's principles of fair business practice and will await your prompt response.

Sincerely,
Heinrichs GEOExploration Co.



Walter E. Heinrichs, Jr.

WEH/jh

CC: A. Humphrey
M. Nesbitt
W. Hirt
J. Loghry
R. Lundin ✓
File

*and the result is at best, evasive, insensible
and ambiguous if not intentionally deceptive.



HEINRICHS GEOEXPLORATION COMPANY

P. O. BOX 5964, TUCSON, ARIZONA 85703. 806 WEST GRANT ROAD. PHONE: (602) 623-0578

February 22, 1984

Amoco Minerals Company
P. O. Box 3299
Englewood, CO 80155

Re: AMC #L-100183, Ariz. State
Prospecting Permit No. 83801
LaPaz County, Arizona

Attn: Mr. James C. Hiatt
Sr. Land Representative

Dear Mr. Hiatt:

Receipt of your letter of 16 February 1984 is acknowledged.

We will look forward to receiving the information from Art Humphrey concerning work done on the Arizona State Prospecting Permit ground. You did not indicate when we can expect to receive that information. You also did not indicate when we should expect to receive the factual information due regarding ALL the work that Amoco did on the Federal ground as well.

You indicate work done on the State ground was less than the minimum \$3,200.00 required during the period ending 16 March 1984. The timing question as to when rights change to obligations, was discussed at considerable length in negotiation discussions with Mr. Humphrey and Nesbitt at this office in Tucson on 8 June 1983. At that time we agreed to yield on the matter of the Federal annual labor obligation date from February to April 1 as is correctly reflected in the written agreement. However, none of us recalls any discussions regarding changing our original written proposal to you that if the State ground were under the control of the Lessor beyond September of any given year that then the said holding costs would become the Lessor's obligation. What we do remember are discussions to the effect that your forthcoming efforts during the rest of 1983 and 1984 would easily take care of that burden at least initially. Curiously, although the written agreement is quite specific regarding the Federal ground, it is totally silent on the matter with regard to the State ground. That is an obvious strange omission that I did not catch here and of course now raises the question of intent or omission or what on your part? Certainly it was clear to everyone that as of 8 June 1983,



WALLABY ENTERPRISES INCORPORATED

TUCSON OFFICES:

810 WEST GRANT ROAD - P.O. BOX 5964 - TUCSON, ARIZONA 85703 - (602) 623-0579
3425 WEST BARDOT STREET - TUCSON, ARIZONA 85741 - (602) 744-2700

PRESCOTT OFFICE:

122 EAST GURLEY - SUITE 203 - PRESCOTT, ARIZONA 86301 - (602) 445-8498

March 4, 1983

Mr. Tom Patten
7725 E. Manor Pl.
Tucson AZ 85715

Dear Tom:

I quickly put together some of the most basic information on the SE claim grp. and will try to get together with you next week. The map that I have enclosed does not include any of the AMAX, Utah, Bear Creek or Texas Gulf data. We have that information and will be plotting it this weekend. It generally confirms and enlarges the area of anomalous gold values. The key to the samples are below:

N=Newmont

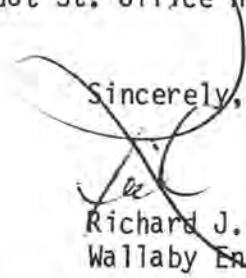
F=Felmont

W=Wallaby for Westworld Oil & Gas

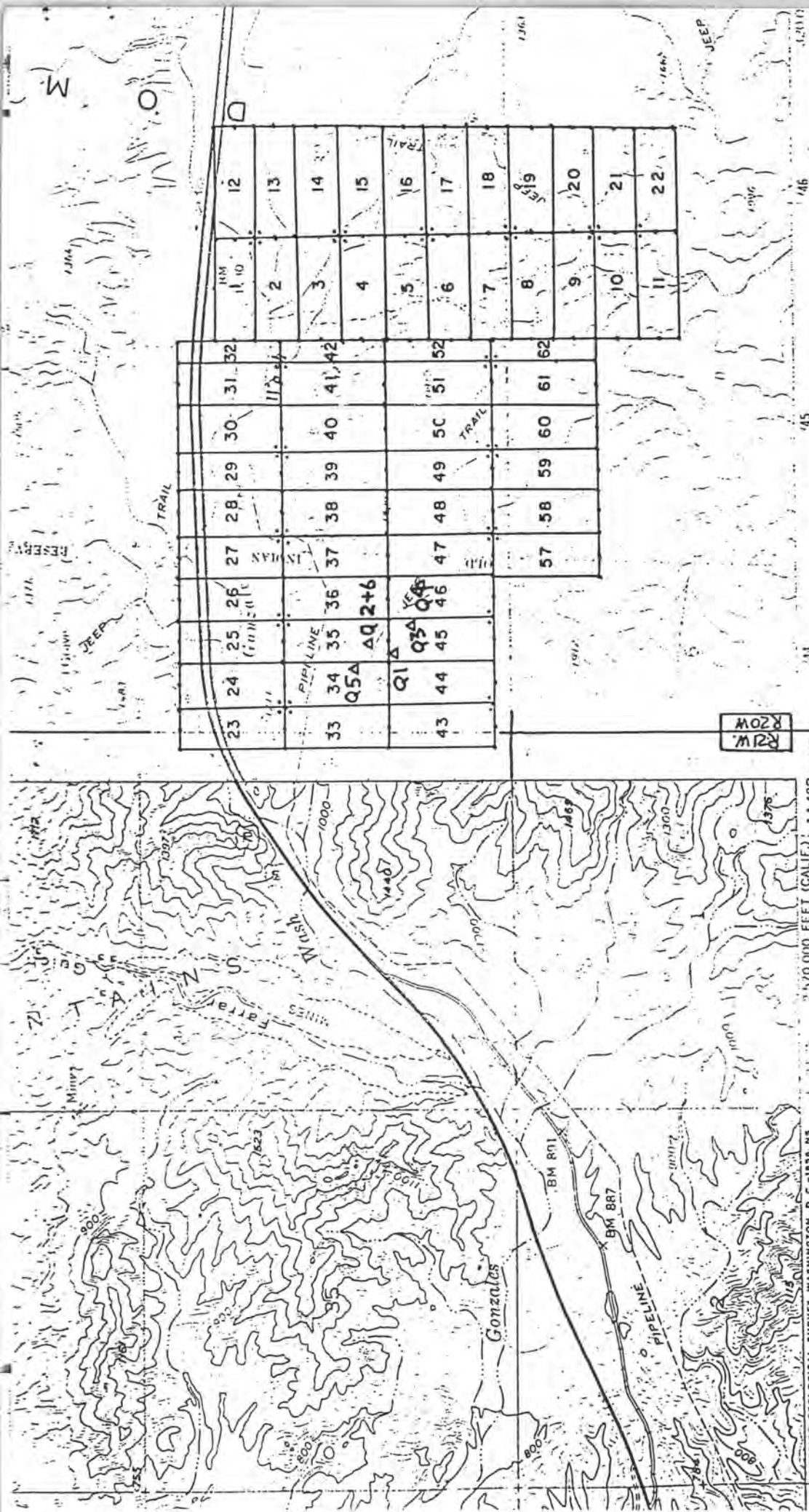
SE=Wallaby for Heinrichs GEOEX et al

I hope that the attached information will suffice until next week. If you need additional information before then, give me a call at our Bardot St. office number

Sincerely,


Richard J. Lundin, President
Wallaby Enterprises Inc.

P.S. Paul mentioned that you might be interested in our Michigan program. Give me a call so that I can fill you in.



INTERIOR-GEOLOGICAL SURVEY, WASHINGTON, D. C. 20508

LA PAZ MTN., ARIZ.—CALIF

NW/4 DOME ROCK MTS 15' QUADRANGLE

N 3337.5—W 11422.5/7.5

1955

SE CLAIM GROUP

MIDDLE CAMP MTN. QUADRANGLE

YUMA COUNTY ARIZONA

1983

ROAD CLASSIFICATION

Heavy-duty ————— Light-duty ————

Medium-duty ———— Unimproved dirt =====

U. S. Route State Route

Control by U.S.G.S. and the GCSGS

Topography by photogrammetric methods from aerial photography taken 1970. Field checked 1971

Projection and 10,000-foot grid ticks: Arizona coordinate system, west zone (Transverse Mercator)

100-meter Universal Transverse Mercator grid ticks, shown 11, shown in blue. 1927 North American datum

Large omitted, land lines have not been established

Scale: 1 inch = 1000 feet

3500'

3000'

2000'

1000'

500'

R.A.
108 pages

[REDACTED]
INTERNAL CORRESPONDENCE

TO [REDACTED] DATE May 25, 1973
FROM [REDACTED] SUBJECT Sugarloaf Peak Area,
Quartzsite Mining District,
Yuma County, Arizona

The geologic relationships, alteration, mineralization, and exploration potential of the Quartzsite prospect are thoroughly covered in [REDACTED]'s report, and in my opinion, he has done an excellent job in deciphering the complex structural relationships of the prospect. I would like to add a few comments emphasizing certain general features of the porphyry copper alteration system at Quartzsite and its indicated favorable exploration potential.

The alteration system at Quartzsite contains an impressive amount of disseminated base-metal mineralization. ~~The area of quartz-sericite-alunite-pyrite alteration near Sugarloaf Peak in the eastern part, and originally higher part, of the alteration system contains large volumes of mineralized rock, exhibiting lead and zinc values in excess of .15 to .20 percent each, combined with molybdenum values that vary~~

100 to 1000 parts per million. These relatively high lead-zinc and molybdenum values are similar to, and higher than, metal values encountered in a similar alteration environment at Red Mountain, Arizona, where they appear to be a direct reflection of the ore-grade primary copper mineralization, occurring at greater depth in the alteration system.

Both alunite and tourmaline are abundant minerals in the Quartzsite alteration system. The occurrence of both of these minerals is believed to indicate that major amounts of the volatile elements, sulfur,


fluorine, and boron were introduced into the alteration system during the period of hydrothermal alteration and metallization. ~~The widespread and abundant alunite, associated with relatively high lead-zinc and molybdenum values, is believed to reflect a center of potassic alteration that should contain abundant anhydrite associated with copper and molybdenum mineralization at greater depth in the alteration system. Surface exposures of quartz-sericite-alunite-pyrite alteration are known to reflect deeper potassic alteration with associated anhydrite and ore-grade primary copper mineralization at El Salvador, Chile, Cananea, Mexico, and Red Mountain, Arizona.~~ Although drilling has not been carried to sufficient depth at Red Mountain, Colorado? to define ore-grade copper mineralization, the *Arizona* quartz-sericite-alunite-pyrite alteration exposed at the surface has been shown to be a direct reflection of abundant anhydrite and increasing copper values at depth. Intense quartz-sericite-alunite-pyrite alteration, similar to that at Quartzsite, is considered to be a direct indication of centers of potassic alteration and ore-grade copper mineralization that occur at depth at Cananea, Mexico. Interestingly, tourmaline is also a widespread constituent of the alteration system at Cananea.

The occurrence of disseminated copper mineralization on the Hancock claims in the western part of the altered area is of considerable interest, not just because this represents several million tons of potential ore-grade copper mineralization, but primarily because it represents the copper mineralization expected to be associated with potassic alteration in a position originally at greater depth in the alteration system. Although the copper mineralization is obscured by faulting, oxidation, and alluvial cover, detailed examination of exposures near the Hancock workings

indicates that both the intrusive and metamorphic rocks formerly contained disseminated primary chalcopyrite mineralization of ore-grade or near ore-grade values. The indicated disseminated primary chalcopyrite mineralization on the Hancock property is believed to be part of, and a reflection of, primary chalcopyrite mineralization that is associated with potassic alteration toward the center of the alteration system in the western part of the Quartzsite prospect.

In summary, the combination of the features described above, widespread intense quartz-sericite-alunite-pyrite alteration associated with substantial disseminated lead, zinc, and molybdenum values, within what appears to have originally been the upper part of the alteration system, together with the indicated primary copper mineralization, associated with potassic alteration at a position originally at greater depth in the alteration system, is believed indicative of a very favorable exploration potential for ore-grade primary copper mineralization within the Quartzsite porphyry copper alteration system.

RMC/ps



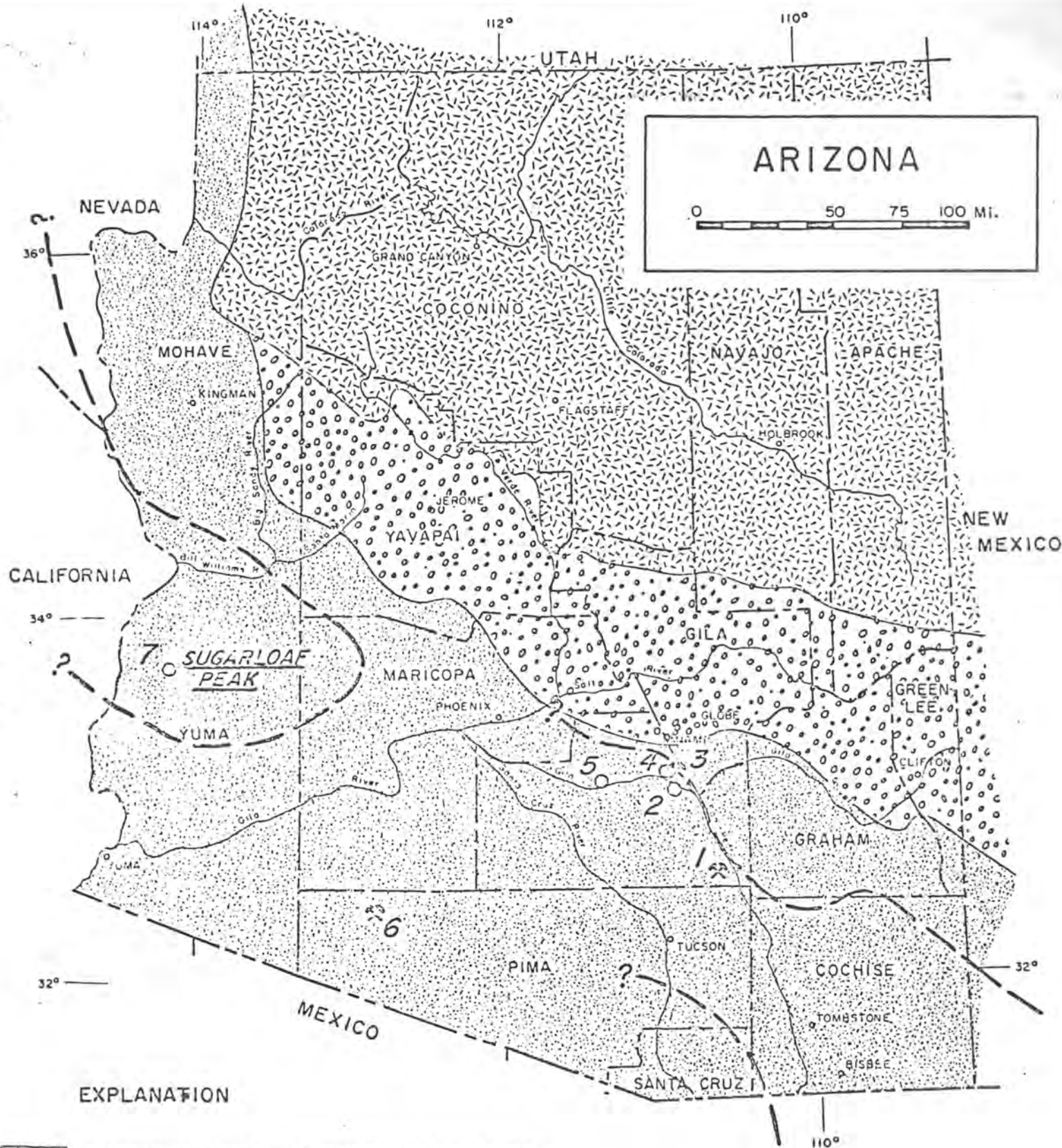
SUMMARY

The Sugarloaf Peak prospect is an area of porphyry copper type alteration and mineralization located in west-central Yuma County, Arizona. The area has a history of placer gold production, but only minor base metal values. Consequently the district has not received much attention from major mining companies.

Detailed mapping of the alteration system together with extensive geochemical sampling indicates that Sugarloaf Peak was originally a vertical alteration-mineralization system similar to that associated with other porphyry copper deposits. The system has been structurally rotated 90° to the east and offset by major faults, with strike and/or dip movement.

The most favorable target for ore-grade copper mineralization is at, or near, the surface in the zone of exposed potassic alteration near the west end of the Kerr-McGee claims. Results of surface sampling and reported values from shallow drill holes indicate the presence of a triangular shaped area of ore-grade copper mineralization at or near the surface which could contain 10,000,000 tons of ore-grade copper mineralization for each hundred feet of depth. Projection of this zone beneath the adjacent zone of potassic alteration would yield substantially greater tonnage with a prospect target of 48,000,000 tons per hundred feet of thickness.

To test this prospect, a 1000 to 1500 foot diamond drill hole is recommended, to be collared near the center of exposed copper mineralization in Hancock Wash. This would yield the most useful geologic information, as well as give a third dimension to our estimate of the potential copper mineralization.



EXPLANATION



- PLATEAU PROVINCE — CONSISTENT STRUCTURES
- MOUNTAIN ZONE — CONSISTENT TO INCONSISTENT STRUCTURES
- BASIN AND RANGE PROVINCE — INCONSISTENT STRUCTURES

POSTULATED LOCATION OF FLAT OR THRUST FAULT LOBE

PROSPECTS ○ AND MINES ⚡ WITH POST MINERAL STRUCTURAL ROTATION

- | | |
|-------------------------------------|----------------------------------|
| 1. San Manuel — Kalamazoo (Newmont) | 4. Granite Mountain (Kerr-McGee) |
| 2. Kelvin (Kerr-McGee) | 5. Florence (Continental Oil) |
| 3. Ray (Kennecott) | 6. Ajo (Phelps Dodge) |
| | 7. Sugarloaf Peak (Kerr-McGee) |

FIGURE 1

GENERAL

The Sugarloaf Peak prospect is an area of porphyry copper type alteration and mineralization located in the Quartzsite Mining District of west central Yuma County, Arizona. The area of interest lies south of U.S. Highway 60 & 70, now I-10, and east of Quartzsite Pass, where I-10 cuts through the Dome Rock Mountains.

The district is credited with over 10,000 ounces of placer gold production, however there has been no significant base metal production from this part of Arizona. Burton Hancock is reported to have shipped two carloads of material from the Surprise Claims, running 49 tons of 1.1 percent copper and 54 tons of 2.1 percent copper. Lehre Eardman reports shipping a truckload of lead-silver ore from the Leadville Mine. Exposed mineralization and sampling by us indicates that these figures are at least reasonable.

This report is based on extensive field work in the district, including geologic mapping and geochemical sampling of the area covered by Kerr-McGee's claims, some ground magnetic work and evaluation of results from shallow validation drill holes, as well as on data obtained from other sources, such as Congdon and Carrey. They controlled the area by location and options from 1962 thru 1971 and did more than 14,500 feet of rotary and diamond drilling, as well as conducting extensive Induced Polarization and aeromagnetic surveys.

GEOLOGY

The Sugarloaf Peak area is underlain by Precambrian schist and granite, which has been intruded by a complex stock of probable Laramide age and overlain by a Tertiary quartz porphyry flow. These units are partially covered by Late Tertiary and Quaternary gravels.

The main mass of the Dome Rock Mountains south of U.S. Highway I-10 is schist, with a few outcrops of schist north of the highway. The schist is representative of the greenschist facies of regionally metamorphosed intermediate volcanics and interbedded sedimentary units. Previous workers in the district from the Arizona Bureau of Mines have considered the schist to be of Cretaceous age, however there is little or no evidence for this. The rock is very similar to nearby outcrops in California and northern Yuma County that are of Precambrian age, and correlated with the Yavapai schist of central Arizona. There are no other schists of Cretaceous age in the region, however the metamorphosed volcanics were equated with unmetamorphosed Cretaceous-Tertiary andesites exposed in central and southern Yuma County. The lithologic similarity to Precambrian schists, the large extent of outcrop, and the lack of any real evidence correlating the metamorphosed volcanics with the unmetamorphosed Tertiary volcanics all suggest that the schist is better correlated with the Precambrian Yavapai schist.

The Precambrian granite is exposed in the mountains north of the highway except for a few exposures to the south where I-10 cuts through the mountains at Quartzsite Pass near the western edge of the map. The granite is generally coarse with less than five percent mafic minerals, mostly biotite and chlorite.

The Cretaceous intrusive stock varies in composition from aplite to biotite-diorite porphyry, but most exposures are monzonite porphyry. The biotite-diorite phase appears to be confined to the contact with the Precambrian granite. Aplite occurs as occasional dikes and possibly as a breccia zone in the NW 1/4, SE 1/4 Section 31, Township 4 North, Range 20 West.

A quartz porphyry or rhyolite porphyry caps Sugarloaf Peak. Large outcrops of porphyry occur along the flanks of Brown Mountain to the east, and capping a small hill just north of Brown Mountain. Scattered outcrops found north of the Dome Rock exit ramp appear to be remnants of a major flow. A very small block of rhyolite is exposed south of Brown Mountain, however this occurrence appears to be intrusive whereas those on Brown Mountain are flows. The outcrop at Sugarloaf Peak could be a cap or it could represent a neck or plug. It is at an elevation considerably above the other occurrences, and the contact is covered with talus. Adits along the flanks of Sugarloaf Peak do not penetrate to the core. A caliche cemented conglomerate surrounds the small hill of quartz porphyry near the southeast corner of Section 34, Township 4 North, Range 20 West. Late Tertiary gravels and Quaternary alluvium fill deep valleys along both the east and west flanks of the mountain range and lap up onto the pediments at Sugarloaf Peak, partially obscuring outcrops.

STRUCTURE

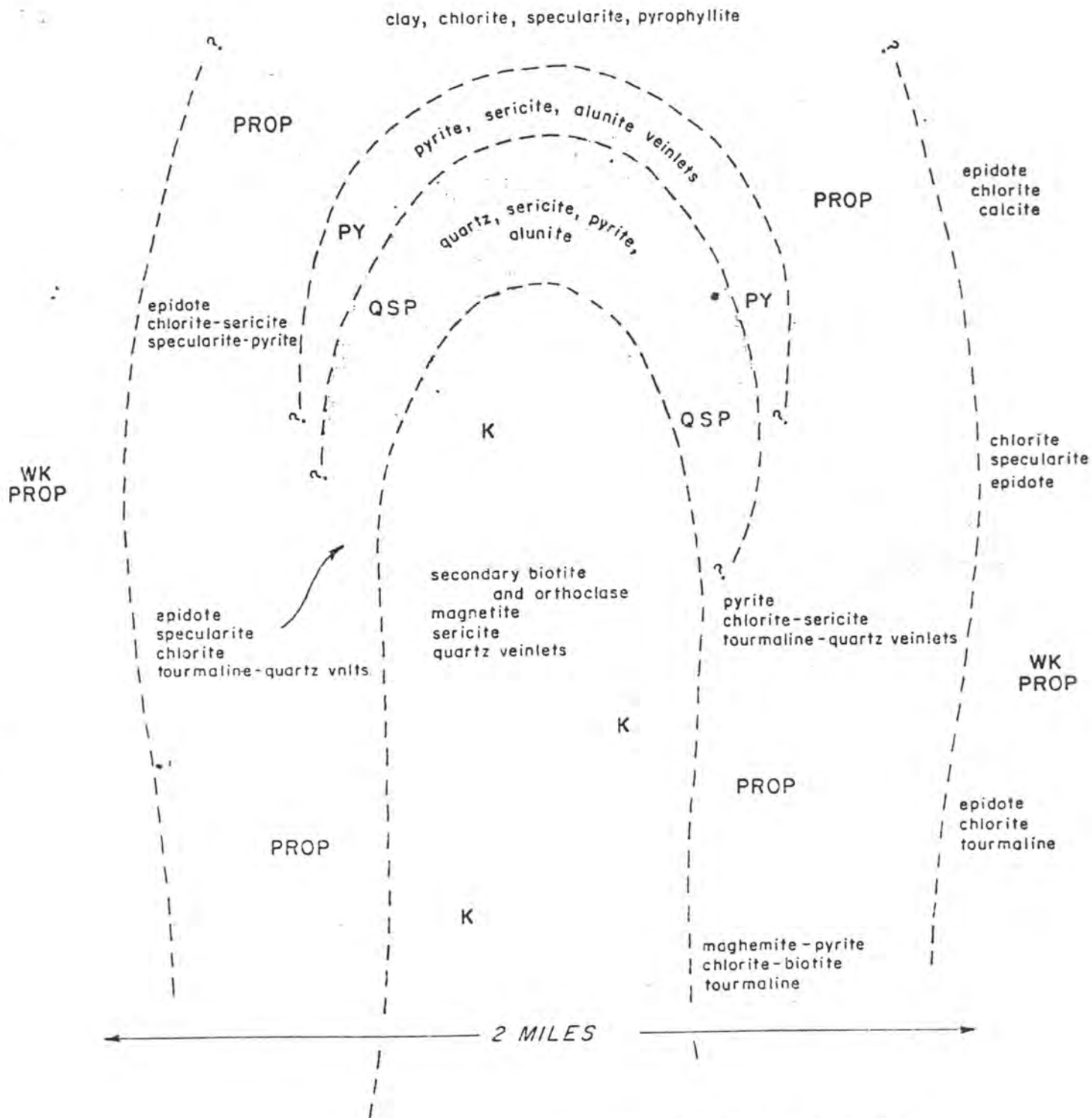
The Sugarloaf Peak prospect lies within a province of structural rotation and low-angle faulting. These structural elements are related to crustal distension and are similar to those observed along the west side of the San Pedro River, such as have been described at the San Manuel-Kalamazoo Mine and at Kerr-McGee's Kelvin and Granite Mountain prospects.

There are no marker horizons in the schist, however structural rotation to the east has been interpreted from detailed mapping of the alteration pattern and from the metal zoning relationships. Fault offsets are evidenced by abrupt discontinuities in the alteration pattern and are generally corroborated by corresponding changes in the geochemical pattern.

The horizontal position of the alteration pattern has been determined from review of drill hole information evidencing a decrease in alteration grade with depth in the area of drilling just west of Sugarloaf Peak. Northeast striking faults, dipping steeply westward to nearly flat lying, are related to gravity sliding during structural rotation and/or post rotation block faulting. Their displacements are generally of only a few hundred feet. In addition to these faults, major northwest trending, right lateral strike slip faults have been mapped. This structural trend can be projected into the Sugarloaf Peak area from the Plomosa Mountains to the east and appears to extend across the Dome Rock Mountains into the area of alluvial cover to the west. Displacement, as indicated by offset segments of the alteration system, may be 500 to 1000 feet along any one slip plane, however there are numerous slip planes within the area mapped and the total offset may be on the order of 5000 feet within that area.

ALTERATION

The observed alteration and metal dispersion patterns are shown on the accompanying maps of the Sugarloaf Peak area. Figure 2 is a diagrammatic presentation of the original alteration pattern. The alteration types and their associated metals are described in order of their probable occurrence, extending downward from the ore time surface above the central core of a typical porphyry copper alteration system. At Quartzsite this is equivalent to starting about one-half mile east of Sugarloaf Peak and moving westward over the surface along a horizontal axis.



ALTERATION

K	POTASSIC
QSP	PHYLIC
PY	PYRITIC
PROP	PROPYLITIC
WK PROP	WEAK PROPYLITIC

HYPOTHETICAL SYSTEM OF PORPHYRY COPPER ALTERATION

WITH RESTRICTED ENVELOPE OF QUARTZ-SERICITE-PYRITE
MODELED AFTER RED MOUNTAIN, SANTA CRUZ CO., ARIZONA

SUGARLOAF PEAK
QUARTZSITE DISTRICT YUMA COUNTY ARIZONA

Propylitic alteration is both the exterior and the uppermost facies of alteration and is generally characterized by epidote, chlorite, carbonate, and an absence of sulfides or quartz veinlets. This type of alteration is gradational into unaltered rock at a distance from the center of the alteration system. The change is particularly difficult to recognize in greenschist, however, because the metamorphic mineral assemblage is nearly the same as that of propylitic alteration.

Exposures of hydrothermal propylitic alteration immediately west of Sugarloaf Peak are typical of the upper high level of alteration occurring near the core of the alteration system. Chlorite and epidote are accompanied by specularite with lenses and zones of sericite and pyrophyllite. Occasional major quartz specularite vein zones and some calcite veinlets are also present. Exposures north of highway I-10 exhibit chlorite, epidote and specularite with quartz tourmaline veinlets. This is characteristic of deeper propylitic alteration than that discussed above, and probably reflects a position near the propylitic-phyllitic interface, with the quartz veinlets extending out beyond the zone of pyritic alteration. The area of propylitic alteration along the southern edge of Kerr-McGee's claims is generally weaker than the two areas just described. Chlorite, epidote, and specularite are associated with calcite veins to the southeast, and with minor calcite and moderate tourmaline to the west.

~~Pyritic alteration at Sugarloaf Peak~~ is characterized by disseminated pyrite controlled by planes of schistosity, generally without quartz veinlets. Abundant alunite veinlets occur along the north slope of Sugarloaf Peak, with intense sericite and clay on the south edge. The pyrite zone occurs at Sugarloaf Peak as a cap which separated the

propylitic and phyllic zones when in their original upright position. This zone does not generally extend to any great depth along the flanks of the system.

Phyllic alteration consisting of quartz, sericite, and pyrite is exposed over an area one mile long and from 3000 to 5000 feet wide just west of Sugarloaf Peak. This facies is generally characterized by intense sericitization with abundant disseminated pyrite and closely spaced quartz pyrite veinlets. Within the Sugarloaf Peak alteration system the phyllic alteration zone appears to grade downward or westward into altered rock characterized by variably spaced quartz pyrite veinlets and sericite envelopes within a phase of alteration reflecting the transition from weak potassic to propylitic alteration. This type of alteration is exposed adjacent to the potassic hill in the center of Section 31. The gradation from near potassic to propylitic appears to take place over a width of from 300 to 500 feet.

A block of potassic alteration measuring 2000 by 3000 feet is exposed in the center of Section 31, Township 4 North, Range 20 West. The block is bounded on the north, south and west sides by major faults. The east side is the gradational change from potassic to phyllic, to the deep propylitic type of alteration discussed above. The potassic alteration is characterized by secondary orthoclase, minor magnetite and quartz-chalcopyrite veinlets with disseminated sulfides. Capping indicates a fairly high chalcopyrite to pyrite ratio in the Hancock Wash area with slightly decreasing chalcopyrite to the east.

It should be emphasized that changes in alteration are gradational, sometimes taking place over considerable distances, even though they are shown as distinct contacts on a map. It should also be pointed out that a single alteration facies may be represented by different sets of mineral assemblages at different levels within the system. For example, the propylitic alteration near the top of the system may be characterized by epidote, calcite and pyrophyllite, while the propylitic zone at great depth would be identified by an association of chlorite, sericite, and magnetite. In addition to this, a single mineral species may be associated with more than one facies of alteration. For example, chlorite is pervasive in the propylitic zone, a minor constituent of the pyritic or argillic zone, and absent in the phyllic zone. It reappears replacing biotite in the near or weak potassic zone and gives way to biotite in the zone of potassic alteration, however it is present in the deep barren core of some deposits.

METAL ZONING

The dispersion pattern of both lead and molybdenum reflect the exposed alteration pattern and corroborate the structural rotation inferred from the overall alteration pattern. ~~Lead values ranging from 100ppm to greater than 1000ppm are reported from the pyritic altered area adjacent to Sugarloaf Peak.~~ The area of intense phyllic alteration west of Sugarloaf Peak is characterized by only moderate lead values accompanied by highly anomalous molybdenum with values ranging from 5ppm to greater than 100ppm in an angular pattern concentric with the observed alteration pattern. Drill hole information from both the high lead and the high molybdenum ~~areas define a zone averaging over 1000ppm zinc from the surface to a depth of 500 feet.~~ Testing of selected surface samples shows that the

area contains anomalous ~~bismuth~~ and ~~tin~~ along with ~~gold~~ and ~~silver~~ values typical of porphyry copper environments elsewhere. Copper values of from 100ppm to 600ppm are reported from drilling in this zone of extremely high metal values. Minor chalcocite was noted in DDH S-5 and in validation drill hole, V-2, along the western margins of the phyllic alteration and turquoise coats a few fractures in a prospect pit along the southern edge of Kerr-McGee's claims.

MINERALIZATION

Primary copper mineralization occurs in the Hancock Wash area, associated with the favorable potassic alteration exposed there. Copper oxides fill fractures with copper pitch after disseminated chalcopyrite exposed in several prospect pits. A grab sample of unoxidized rock containing disseminated chalcopyrite taken from an adit assayed .38 percent copper and grabs of oxidized material ran between .04 and 1.14 percent copper. Hancock's drill holes in the bottom of the wash reportedly intersected values greater than 1.0 percent copper.

This zone of strong copper mineralization exposed at the surface covers a triangular shaped area 3000 feet long, reaching a maximum of 800 feet in width and enclosing 1,200,000 square feet. An area this size would contain 10,000,000 tons of rock for each 100 feet of depth. Although the actual copper values reported by Hancock may be in error, they do indicate the presence of a zone of intense disseminated copper mineralization down to a depth of at least 150 feet, which would indicate 15,000,000 tons of ore-grade copper mineralization exposed at the surface and amenable to open pit mining methods. This zone, together with the presence of scattered copper prospects in the adjacent potassic block of alteration,

strongly suggest the presence of a much larger zone of primary copper mineralization within shallow to moderate drilling depths. The potassic block measures 2000 by 3000 feet in plan, giving a target of 48,000,000 tons per hundred feet of thickness. The potassic block is bounded on three sides by faults, so additional targets exist along the direction of fault offset and their presence may be inferred from surface alteration features.

GEOPHYSICS

Congdon and Carrey had McPhar conduct an extensive Induced Polarization survey over their claims and, while McIntyre held an option on the prospect, they extended the survey somewhat and positioned two drill holes on the basis of that work. The opinion of a Kerr-McGee geophysist who reviewed this work concurred with the McPhar people, who felt that the major anomaly near Sugarloaf Peak is the reflection of a broad near-surface feature with decreasing sulfides below. The presence of the broad pyritic area could have been mapped by visual inspection and the shallow nature inferred from the six drill holes completed prior to doing the I. P. survey. McIntyre's work repeated the process but did not lead to any significant new ideas. Of interest however, are the weak anomalies in the Hancock Wash area at the west end of the map (Lines "H" and "H"12E) which indicate moderate sulfide content in an area of visible chalcopyrite.

Minex conducted a ground magnetometer survey which showed that their claims in Section 34, Township 4 North, Range 20 West generally overlie a magnetic low reflecting a very structurally complex area, possibly the regional schist-granite contact. Congdon and Carrey contracted an

aeromagnetic survey, which showed the pyritic area of alteration as a pronounced trough flanked by magnetic highs on both the north and south. These magnetics also show a regional gradient to the east of Kerr-McGee's claims under alluvial cover which has been interpreted to be the magnetic reflection of a regional contact between granite and schist.

A ground magnetometer survey was conducted by Company personnel over the ZALES Claims area in an attempt to locate faults and to get some information on the downdropped potassic zone covered by part of this claim group, however the results are generally inconclusive.

CONCLUSIONS AND RECOMMENDATIONS

The Sugarloaf Peak prospect is an area of porphyry copper type alteration and mineralization which exhibits favorable potential for a large tonnage of ore-grade copper mineralization, at least part of which would be amenable to open-pit mining methods. The most favorable target is the block of potassic alteration near the west end of Kerr-McGee's claims, on ground presently controlled by Burton Hancock of San Jose, California.

Results of surface sampling and values reported from shallow drilling on Hancock's claims indicate the presence of at least 15,000,000 tons of ore-grade copper mineralization at or near the surface in Hancock Wash. Projection of this zone beneath the adjacent potassic block gives a target potential of 48,000,000 tons per 100 feet of thickness.

A drill hole collared in Hancock Wash near the center of stronger copper mineralization would yield the most useful geologic information with regard to structure and alteration, as well as giving a third dimension to our estimate of potential copper mineralization. A 1000 to 1500 foot drill

hole is recommended to test this prospect, however, since the hole would be located on the Hancock Claim group, it will be necessary to obtain control of these claims prior to doing the work. The estimated cost of this drilling project is \$20,000, which would be more than enough to cover our annual work requirements for the 1973-74 assessment year.



HEINRICHS GEOEXPLORATION COMPANY

P.O. BOX 5964, TUCSON, ARIZONA 85703, 806 WEST GRANT ROAD, PHONE: (602) 623-0578

February 2, 1983

Mr. Norman E. Lehman
Area Geologist
Gulf Mineral Resources Company
2045 North Forbes Blvd., Suite 106
Tucson, Arizona 85745

Dear Mr. Lehman:

In reply to your letter of January 31, 1983 (ref. TAO 80-21), we (Heinrichs Geoexploration Company, Inc., Hirt, Loghry and Wombat Mining Company) accept the terms of your recommended proposal for the exploration, development and production of our SE claims and Arizona State prospecting permit in La Paz County, AZ subject to the following:

1. Item 5 - Annual Labor for the state prospecting permit.
GMRC shall perform the annual labor for the State Prospecting permit in the amount of \$6400 per year for the period March 16, 1984 to March 16, 1987.
2. Item 6 - The claim map (Fig. 1) corrected as per attached copy relative to area of interest and area covered by claims. Refer to Wallaby Enterprises' one inch to 500 feet map as the standard as to the area covered by our claims; the east boundary of the area of interest shall be the north-south line bounding the SE and SP claim groups and its extension.
3. Item 7 - Data. All factual data acquired and developed by GMRC shall be released to the owners at the time when and if the lease is dropped.
4. GMRC shall mitigate, reclaim, and repair all surface disturbance and environmental damage created by GMRC exploration, development, and mining activities so as to comply with applicable state and federal environmental laws and regulations.
5. GMRC agrees to pay all taxes, assessments, and other governmental charges imposed upon the property while this agreement is in effect.

Mr. Norman E. Lehman
February 2, 1983
Page Two

6. GMRC shall pay all expenses incurred by it in its operations on the property and shall allow no liens or liabilities arising from any act of GMRC to remain upon the property.
7. GMRC shall indemnify us against and hold us harmless from any suit, claim, judgement, or demand whatsoever arising out of actions or negligence of GMRC in the exercise of any of its rights pursuant to this agreement.
8. GMRC will complete the remaining assessment work due on the state prospecting permit before March 16, 1983; GMRC has already completed a substantial part of this work.

Sincerely yours,

William C. Hirt

William C. Hirt
General Partner

For:

Heinrichs GEOEXploration Company, Inc. General Partner
James D. Loghry, General Partner
Wombat Mining Company, General Partner
William C. Hirt, General Partner
P.O. Box 5964
Tucson, AZ 85703

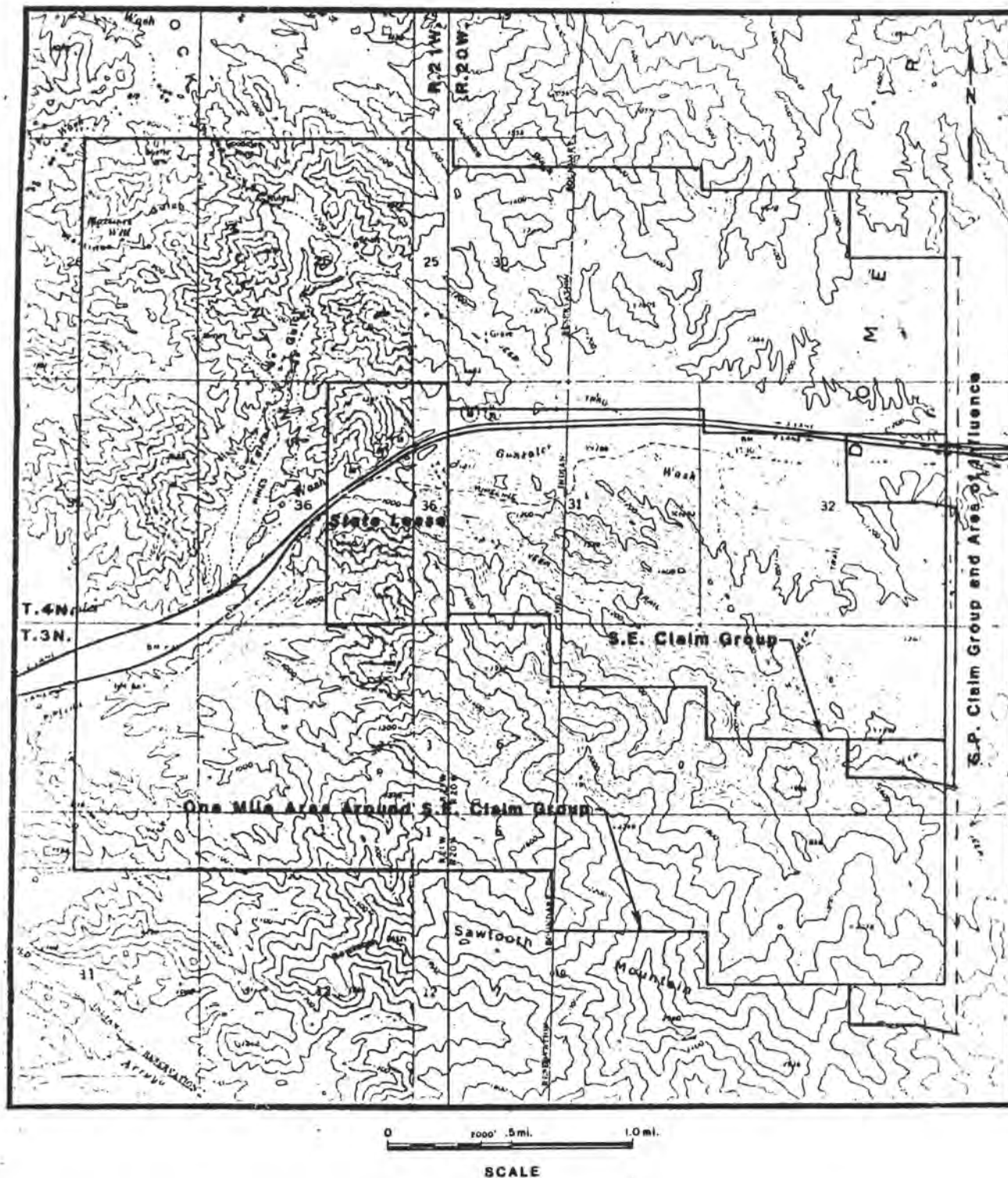


Figure 1. Location Map of the S. E. Claim Group and State Lease With One Mile Area of Influence Surrounding These Lands; La Paz County, AZ

MEMORANDUM

TO: G. N. Hall

FROM: R. A. Newell

SUBJECT: SE Claim Expenditures; Cholla Prospect
Yuma Co., Arizona
File No. 3128-E

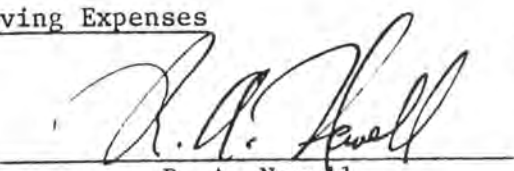
DATE: August 17, 1982

NEL initiated active investigation of the SE Claims, Dome Rock Mtns., Yuma Co., Arizona on March 18, 1982. Ninety-three rock geochemical samples have been collected during the course of our activities, and expenditures total \$1,698.33.

The two samplers, Mr. E. Owens and Steve van Kouteren, are graduate geologists with about 1 year of professional experience each. Mr. Owens earned a B.Sc. geology degree from University of California, Riverside, 1981, and Mr. van Kouteren obtained his B.Sc. in geology from Penn. State University, 1981. Both individuals, employed by NEL for about one year, were directed by J. O. Guthrie, Senior Newmont Geologist, with 13 years' experience and B.Sc. from University of California, Santa Barbara, and M.Sc. University of Mass., Amherst, Mass. Our expenditures are summarized in the following table:

SE CLAIM EXPENDITURES
(Year to Date)

<u>Assaying Charges</u>	93 samples	\$ 653.80
<u>Labor Charges</u>	8 man days	780.35
<u>Travel & Living Expenses</u>		<u>264.18</u>
		\$1,698.33


R. A. Newell

RAN:re

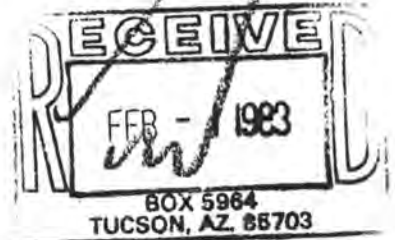
Rich

Gulf Mineral Resources Co.

2045 North Forbes Blvd.
Suite 106
Tucson, AZ 85745

January 31, 1983

Mr. Walter Heinrichs
Heinrichs Geoexploration Co.
P. O. Box 5964
Tucson, Arizona 85703



Re: S.E. Claims and Prospecting Permit No. 83801
La Paz County, AZ (TAO 80-21)

Dear Mr. Heinrichs:

Please consider the following recommended proposal for the exploration, development and production of the above-captioned mining prospect as related to the lease-option terms and conditions that your group outlined in a letter dated October 20, 1982.

1. Purchase price: If GMRC elects to purchase this property, it will pay a total of \$5 million to the owners plus perpetual NSR or equivalent royalty in the amount of 4% on Federal lands and 2% on State lands. All payments, including production royalties, apply toward the purchase price. Payments toward the purchase price will be structured as capital gains if you desire.

2. Term of lease: The lease will remain in effect as long as GMRC elects to make the yearly payments described below. GMRC may drop interest in all, or any portion, of the Federal and/or State lands but GMRC must give the claim owners a 30 day notice prior to such a release.

3. Payment schedule: GMRC will pay the claim owners \$15,000 upon signing the final contract and, if we elect to continue the term of the lease, GMRC will pay the owners \$18,000 on the first year anniversary of the contract, \$21,000 on the second anniversary and \$24,000 per year for each subsequent anniversary that the contract is in force.

4. Annual labor for Federal claim maintenance: GMRC will perform the annual assessment work for the claims if the contract between GMRC and the claim owners is in force prior to May 1 of any year. If this contract is not in force after May 1, the claim owners are responsible for performing the annual assessment work. GMRC will perform physical labor



(dozing, drilling, mining, etc.) to fulfill the requirements of the annual assessment work and GMRC will spend at least \$5,800 for the 1982-83 assessment year and \$7,800 per year after the 1982-83 assessment year, on the Federal claims.

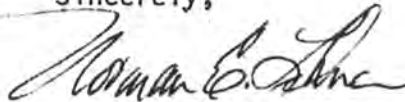
5. Annual labor for the State prospecting permit: As long as our lease-option contract is in force, GMRC will perform the annual assessment work for the prospect permit in the amount of \$3,200 per year for the period ending March 16, 1987, and GMRC will pay the annual rental fee of \$320 for the period March 16, 1984 to March 16, 1987. If our lease-option contract is in force after November 15 of any given year, GMRC will be responsible for these obligations.

6. Area of interest: There will be an area of interest extending one mile from the northern, western and southern exterior boundaries of the claim and prospecting permit blocks as shown in Figure 1. Any claims staked by either party or prospecting permits acquired, shall be subject to the terms of the agreement.

7. Data: All factual data acquired and developed by GMRC shall be released to the owners when and if the lease is dropped. Information of reports shall be made available to the owners periodically during the term of the lease. The owners will hold these data confidential.

If the terms of my recommended proposal are acceptable to your group, I will send these terms to the GMRC senior management in Denver so that a contract can be drafted for your final approval. We appreciate the opportunity to explore your property and I look forward to your positive response to my recommended proposal.

Sincerely,



Norman E. Lehman
Area Geologist

NEL/jw

cc: James D. Loghry
T. Heidrick
J. Wilkins

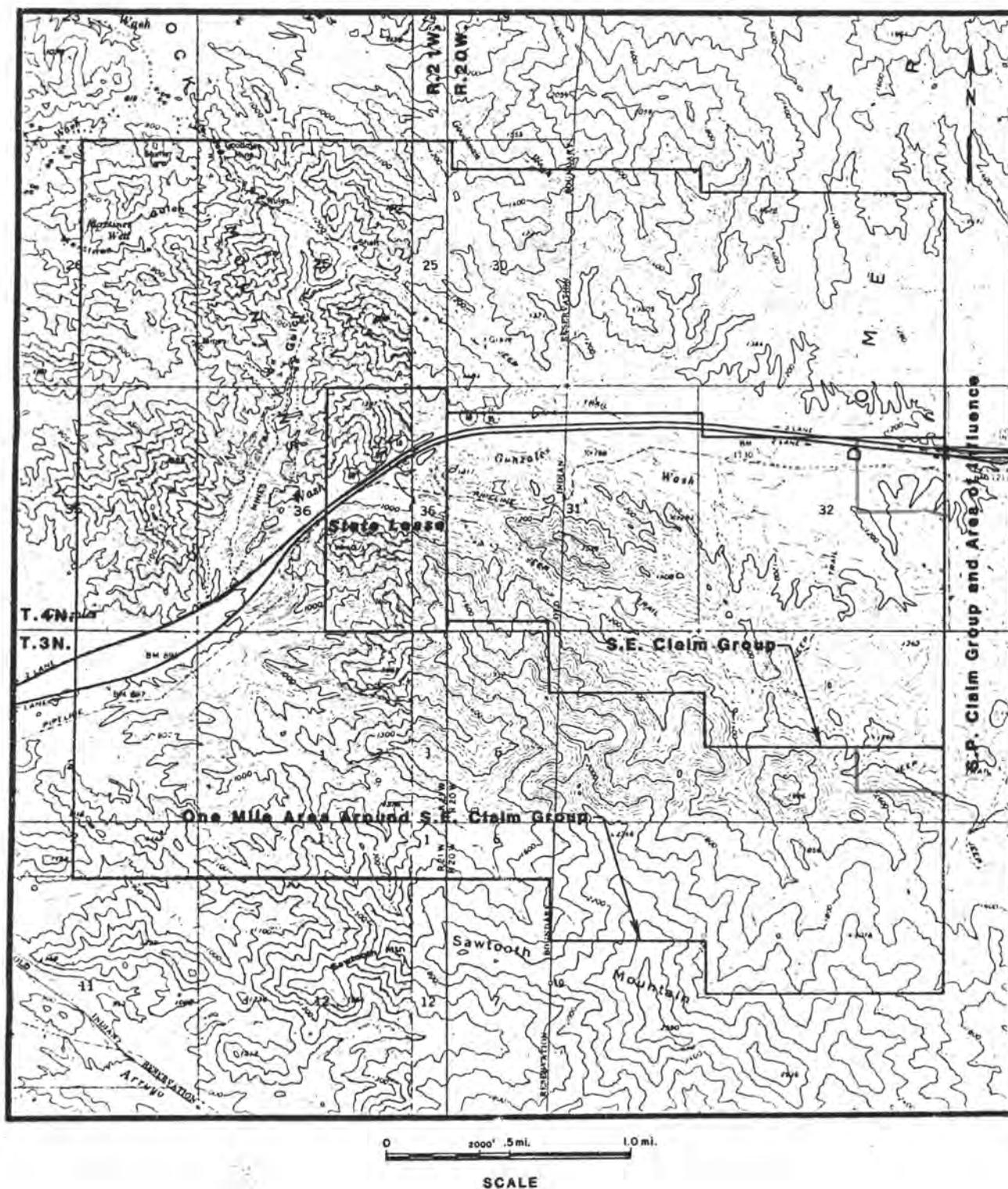
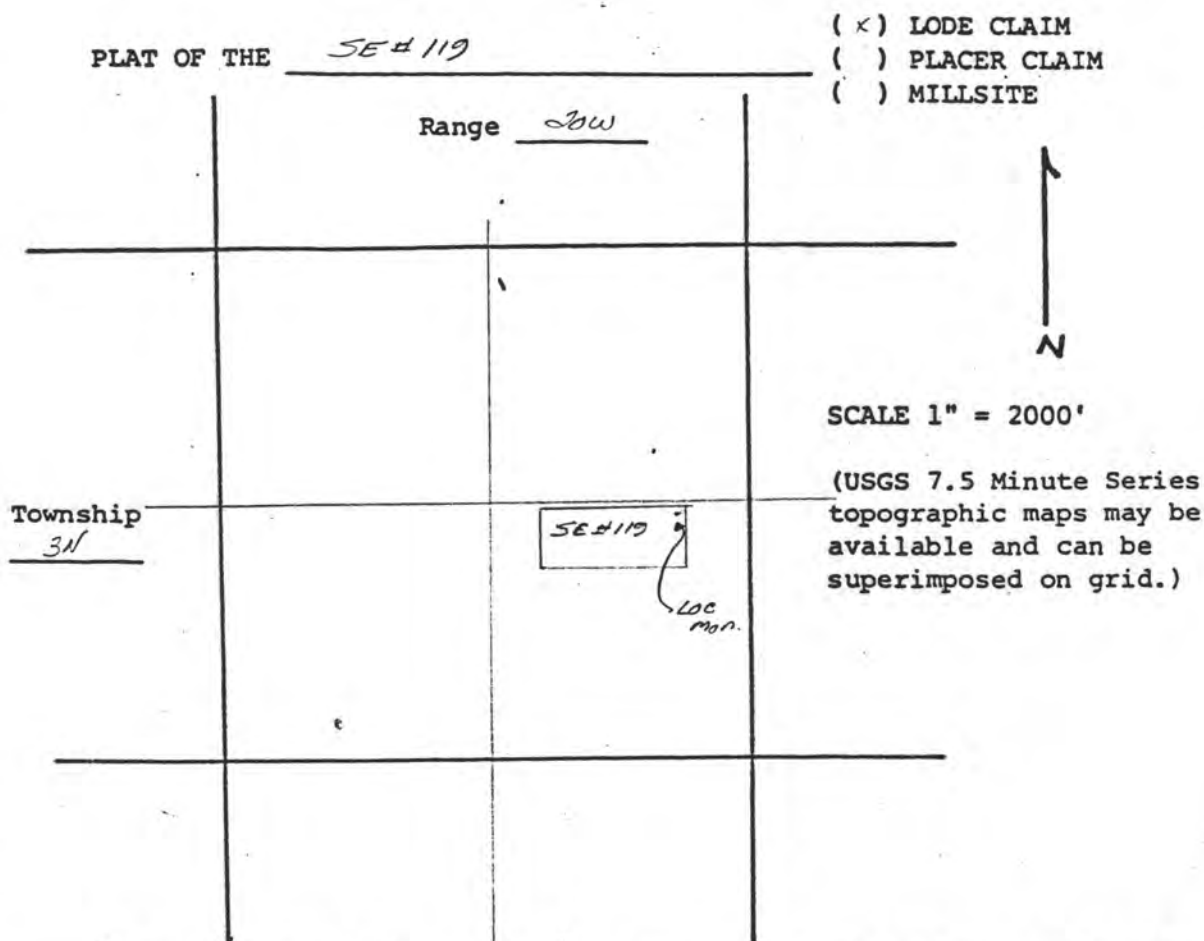


Figure 1. Location Map of the S. E. Claim Group and State Lease With One Mile Area of Influence Surrounding These Lands; La Paz County, AZ



¹The bearing and distance between corners is as follows: beginning at the NE corner, a 2x2 wooden post ² monument at which the location notice is posted, thence South ³ a distance of 600 feet to a 2x2 wooden post monument the SE corner; thence West a distance of 1500 feet to a 2x2 wooden post monument the SW corner; thence North a distance of 600 feet to the place of beginning. The NE corner thence NE east 1500' to the place of beginning. The corner of the claim bears S 80° W a distance of 700 feet from the (Quarter) Section corner common to Sections 4, 8 and 5, Township 3N, Range 20W, G&SRM.⁴

1. A description by legal subdivision may be substituted for the boundary description and the tie to a monument of the public survey where a placer claim or millsite is located by legal subdivisions of the public survey.
2. The type of monument must be described.
3. Provide direction.
4. If land has not been surveyed, the map must show the protracted public survey grid and the course and distance from one corner of the claim to some prominent natural object or other permanent monument (topographic, hydrographic, or man-made feature) shown or described on the map.



WALLABY ENTERPRISES INCORPORATED

TUCSON OFFICES:

810 WEST GRANT ROAD - P.O. BOX 5964 - TUCSON, ARIZONA 85703 - (602) 623-0579
3425 WEST BARDOT STREET - TUCSON, ARIZONA 85741 - (602) 744-2700

PRESCOTT OFFICE:

122 EAST GURLEY - SUITE 203 - PRESCOTT, ARIZONA 86301 - (602) 445-8498

October 14, 1982

Mr. James Quinlan
Sr. Staff Geologist
Kerr-McGee Corp.
P.O. Box 25861
Oklahoma City, OK

Dear Mr. Quinlan:

As per our recent discussions, I am hereby proposing an exchange of information which I feel will be of mutual benefit to Wallaby and Kerr-McGee. Wallaby, through it's mining subsidiary, Wombat Mining Co. has control of certain old Kerr-McGee properties in Pinal and Yuma Cos. Arizona. Specifically, we are seeking any information that Kerr-McGee might have in it's files on the Kelvin-Ripsey Wash property in Pinal Co. and the Sugarloaf Peak-Gonzales Wash property west of Quartzite in Yuma Co.

Of most critical interest to us is the Gulf data on the Kelvin-Ripsey Wash area and access to the core and cuttings material from the drilling efforts in the Sugarloaf Peak-Gonzales Wash area. Mr. Russell Corn has assured us that the pulps and some of the core from the Yuma County property do exist and might be found in storage in Tucson. It is our intention to reassay these materials for their gold content and would furnish Kerr-McGee the results of any reanalysis.

As per our conversations, I am proposing that Wallaby furnish information that may be useful to Kerr-McGee in exchange for the information and access that we are requesting. We propose to furnish a copy of Wallaby's information data base on the Upper Peninsula of Michigan. This information is proprietary to Wallaby and has been sold to a number of major mining companies who have productively used it in their search for base and precious metal Precambrian exhalite deposits. We would be willing to exchange a complete copy of this data base which includes: three maps of the area identifying all base, precious and energy occurrences and deposits, and detailed descriptions of the various deposits in a questionnaire format. (For a further description see attached information)

We feel that this data base would be very useful in any search for Precambrian metal environments and that Kerr-McGee would be getting good value for it's efforts. We are anxious to consummate the exchange as the winter field season is an ideal time to work on both of these properties. If you have and further questions feel free to call me at our Tucson, Bardot St. office.

Sincerely,

Richard J. Lundin
President, Wallaby Enterprises Inc.



Wallaby Enterprises Inc. Mineral Industry Consultants

TUCSON OFFICE:

810 West Grant Rd.

Tucson, Arizona 85705

(602) 623-0578

PRESCOTT OFFICE:

1555 Iron Springs Rd., Suite 39

Prescott, Arizona 86301

(602) 445-9354

October 1, 1984

Mr. Richard Naylor
Project Geologist
AMSELCO Exploration Inc.
17602 North Black Canyon Highway
Suite 105
Phoenix, AZ 85023

Dear Mr. Naylor:

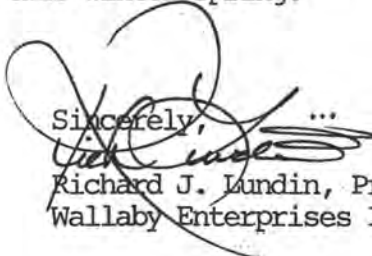
As per a recent request from Tom Young, I am sending along a copy of the most recent information that has been made available to us on the SE claim group in La Paz County Arizona. I have enclosed a copy of the information that was supplied to us by Labradorex and an updated geochemical sample map showing the Labradorex sample sites.

We are very anxious to make a deal with a responsible mining company and are actively talking with several other parties. It would be to our mutual advantage if a lease could be consummated with AMSELCO and we hope that this is still a possibility. From our past conversations and earlier discussions with Tom Young, I was under the impression that the property was under active consideration and so informed my partners. After quite a while of not hearing from AMSELCO, we decided to offer the property to other parties and have received a positive response from two major companies and serious inquiries from several others.

If AMSELCO is still interested, I would suggest that you send to us a sample contract for our review. The best contact point for this sort of exchange would be Mr. Walter Heinrichs, the senior partner of the venture.

I hope that we can get together on this matter and that you can make some of our Central Arizona Geological Society functions later this winter-spring.

Sincerely,


Richard J. Lundin, President
Wallaby Enterprises Inc.

3757

WALLABY ENTERPRISES, INC.

RICHARD J. or VICKI LUNDIN

1555 IRON SPRINGS RD. #39

PRESCOTT, ARIZONA 86301

(602) 445-9354

Nov 30 1985PAY Five & 00/100 DOLLARS \$ 5⁰⁰La Paz Co RecorderTO
THE ORDER
OFVALLEY NATIONAL BANK of Arizona
CASA BLANCA OFFICE TUCSON, ARIZONAVicki Lundin

⑈003757⑈

⑆122100024⑆

2037⑈0711⑈

AFFIDAVIT OF PERFORMANCE OF ANNUAL WORK

State of Arizona)
) ss.
County of La Paz)

I, Richard J. Lundin
of 372 Hackberry Circle
Prescott, Arizona 86301

being duly sworn according to law deposes and says that he is a citizen of the United States more than eighteen years of age and that all of the facts set forth in this affidavit are true and correct according to the best of his knowledge, information and belief.

That he is personally acquainted with the mining claims named in Attachment A that are situate in the Middle Camp Mining District, La Paz County, Arizona, the location of which are recorded in the office of the County Recorder of that County in various Books and Pages. (see Attachment A) Notices of Location are posted located in Sections 31, 32, 5, 6, & 36 Townships 3N & 4N Range 20W & 21W G&SRB&M.

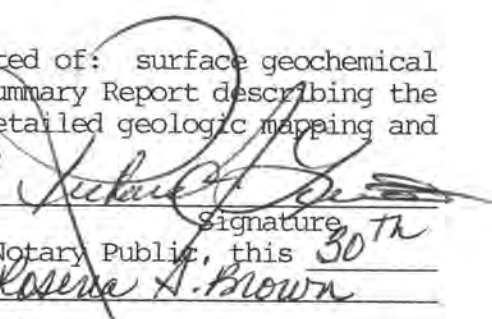
That between the dates of September 1, 1984 and August 31, 1985 at least Eight Thousand Three Hundred (\$8,300,00) dollars worth of work and improvements were made and performed upon this claim not including location work.

The work and improvements were made by and at the expense of Walter E. Heinrichs, James D. Loghry, William C. Hirt and Richard J. Lundin, owners of the property for the purpose of complying with the laws of the United States pertaining to assessments or annual work.

Richard J. Lundin, James D. Loghry, Michael Russ, William Fiern, and Chris Herald were the names of the persons employed by the owners who labored to do the work and improvements. All of the above mentioned individuals are senior Geologists or Mining Engineers with many years experience in all phases of mineral exploration.

The work and improvements done consisted of: surface geochemical surveys, and the preparation of a Summary Report describing the results of an integrated program of detailed geologic mapping and geophysical studies. (See Attachment B)

Dated 11/30/85


Signature
30th

Subscribed to and sworn before me, a Notary Public, this 30th day of November, 1985, by Rosena A. Brown

My Commission expires July 25, 1986
Rosena A. Brown

Notary Public

ATTACHMENT A

Name of Claim	BLM Serial Number AMC No.	La Paz County Book	Page
SE #1-52	105414-105465	1168	643-746
SE #57-62	105466-105471	1168	747-758
SE #101-120	186704-186723	1303	729-770

ATTACHMENT B

SUMMARY REPORT SE CLAIM GROUP

by Richard J. Lundin, Mineral Exploration Consultant

1. Mine or Property Name: SE Claim Group
2. Mining District, County & State: Middle Camp-Oro Fino Mining District, La Paz County, Arizona
3. Quadrangles or Map Names: Middle Camp Mountain AZ (1:24,000)
4. Location: T. 3N & 4N, R. 20W & 21W, Sections 31, 32, 5, 6 & 36
5. Any Former Names: Scott Copper, Royal Investment Corp. Property, Scott-Weaver Copper Mine, Weaver Mine, Sugarloaf Peak Project (Kerr-McGee Corp.)
6. Owners: Walter E. Heinrichs, James D. Loghry, Wombat Mining Co. (Richard J. Lundin, owner) & William C. Hirt
7. Address of Owners: C/O Heinrich's GEOEXploration Inc., 810 W. Grant Rd., Tucson AZ 85705; Telephone: (602) 623-0578
8. Operator: same as above
9. Address of Operators: same as above
10. Principal Metals: Cu, Au, Ag, U
11. Number of Claims, Title etc.: 78 unpatented lode claims,
12. Previous Published or Unpublished Reports: Bancroft, H., (1911), Heikes, V.C., and Vale, C.G. (1913); Jones, E.L., Jr. (1916b); Kincannon, R.B. (1926); Gardner, E.D. and Johnson, (1934); Householder, E. Ross (1956a & 1956b); Wilson, E. (1961) Kerr-McGee Private Reports (1971, 1973a & 1973b); Johnson, M.G. (1972) numerous other private company reports, maps and file data, Arizona Department of Mines and Mineral Resources File Data, Crowl, W.J. (1975); Keith, S.B. (1978); Lundin, R. (1982a & 1982b) Dausinger, N.E. (1983)
13. Names of Mining Companies or Governmental Agencies that have worked or are now working on this property: Royal Investment Corp., Congdon & Carey, McIntyre-Porcupine, Kerr-McGee, Newmont, Gulf Minerals, Texasgulf Western, Bear Creek, Echo Bay, Felmont, Gold Fields, AMSELCO, AMAX, FMC, Labradorex, AMOCO and Meridian Minerals.
14. Ore & Gangue Minerals: Auriferous and argentiferous pyrite and chalcopyrite, malachite, azurite, chrysocolla, tenorite, molybdenite, alanite, iron and manganese oxides associated with extensive areas of sericite-chlorite-alunite-pyrophyllite alteration and extensive silicification, areas of extensive talc-serpentine and tourmaline veining, placer gold
15. Geology: Triassic felsic intrusives and metavolcanics that are overlain by a highly sheared and deformed sequence of Cretaceous volcanics, volcanoclastics, sediments, and cataclastics. These units were then strongly fractured and extremely altered to a alunite-pyrophyllite-quartz-sericite-chlorite-clay assemblage and intruded by a series of intermediate-felsic Laramide-Tertiary volcanic plugs and associated silicious, base and precious metal vein systems. Quaternary gravels and alluvium.

16. Type of Mineralization-Metallurgical Considerations:

1. "Porphyry" Cu-Mo-Ag-Au-U mineralization associated with areas of potassic, phyllic and argillic in the general vicinity of the "Open Pit" area in Hancock Wash. Adjacent to this area are extensive areas of quartz-tourmaline veining associated with a quartz-chlorite-epidote-potassium feldspar alteration assemblage in metavolcanics and felsic intrusives. From the existing Kerr-McGee drilling information, it appears that the mineralization is of a sulphide character and should be amenable to standard floatation treatment.

2. Disseminated pyritic Au-Mo-Pb-Zn mineralization associated with extensive areas of alunite-pyrophyllite-quartz-sericite-clay alteration in silicified metavolcanics, volcaniclastics, cataclastics and sediments. Mineralization is associated with zones of silicification adjacent to or within radial, concentric and low-angle fracture systems.

3. "Stockwork" Au-Mo-Pb-Zn bearing quartz vein systems that contain masses of free-milling gold. These systems are quite extensive and outcrop in the northeast portion of the property.

17. Ore Reserves: According to a Royal Investment Corp. report on the property, the drill indicated reserves of the copper-rich portion of the property are reported at 3,600,000 tons of mixed oxide and sulphide copper bearing ore that would probably average 1.575% Cu/T., .002 ozs. Au/T. (Householder, E. Ross (1956b)) On the basis of later work, Kerr McGee personnel estimated that the reserve potential of this area might be in the order of 10,000,000 tons of material that would average 1% Cu.

The potential tonnage of the gold-rich portion of the system is unknown at this time. On the adjacent SP property of Westworld Oil and Gas, a recently completed, shallow, drilling program delineated a potential of up to 100,000,000 tons of material that would contain 1.5 million ounces of gold and 25 million ounces of silver (Dausinger, N.E. (1983)) It is felt that a major portion of this system extends on to the SE claim group.

18. Mine, Mill Equipment & Flow Sheet: none

19. Road Conditions: The property is readily accessible by system of roads and jeep trails. Interstate (figure 1)

20. Water & Power Supply: Water is available for mining and milling activities from the Colorado River by application. An El Paso Natural Gas pipeline runs through the property. Three phase electrical power is locally available.

21. Extent of Development: Considerable, shallow, open cut workings and stripped areas in and along Hancock Wash

22. Brief History and Past Production: District originally located in the 1890's and worked for high-grade, placer gold deposits. During this period there was only small production from high grade pockets on top of strongly veined bedrock outcrops in the eastern portion of the property. The property was originally located by Miguel Apodoca, and worked in the 1920's as the Weaver or Weaver-Scott Mine. The mine was further developed in the 1950's by Royal Investment Corp. who shipped initiated a drilling program, developed some reserves and shipped several carloads of oxide Cu-Ag-Au ore. It was again operated in the the 1960's by Hancock Oil Co., who then leased to Kerr-McGee. Kerr-McGee drilled six core holes (Q1-Q6) in the Hancock Wash area of the property (Q1-Q6). Located by the present ownership in 1980 and leased to AMOCO in 1983. AMOCO drilled one, shallow, hole in the Hancock Wash area and returned the property to the present ownership. Intensive surface sampling, geological-geophysical studies of areas in the gold-rich portion of the property by several major mining companies (1984-1985)

23. Previous Sampling, Drilling & Other Studies on Dumps or Tailings: Considerable surface sampling by several major mining companies (see figure 1 for results) Core drilling by Royal Investment Corp., Kerr-McGee Corp and AMOCO.

24. Environmental-Social-Political Conditions & Considerations: The area is one of past, extensive and recent mining and prospecting activity and is not within any area considered for Wilderness or Restricted Use Status.

25. Sampling: Sampling by various major companies and Wallaby personnel of the surface exposures. (see figure 1 for results)

26. Financial Terms, Conditions & Considerations: The property is currently available for lease or purchase.

Remarks: The property is an old Copper-Gold-Silver producer with drill indicated reserves. Past drilling efforts by several major mining companies have delineated a major, near-surface Cu-Au-Ag-U system. Recent work has delineated extensive areas of intense low-angle shearing, and alunite-sericite alteration and silicification with associated gold and molybdenum mineralization. In the gold-rich portion of the the property are bodies of strongly fluidized breccia that have anomalous gold contents (up to 5.00 ppm Au/T.) Low-angle fracture-vein systems that are known to have anomalous to ore grade gold values on adjacent properties (i.e. the Goodman Mine Vein System) are thought to cross the SE property under alluvial cover. (see figure 1) Detailed geological mapping and geophysical studies carried out during the 1984-1985 Assessment Work Year, delineated numerous small bodies of highly fluidized breccia that may cotain anomalous gold values. Structural mapping studies confirmed the radial and concentric pattern to fracturing in the gold-rich portion of the property.

From the data at hand, it appears that there is a potential for a 5,000,000-10,000,000 ton copper-silver-gold deposit in the Hancock Wash, copper-rich, portion of the property and the potential for several other gold-silver-molybdenum deposits in the gold-rich portion. The gold-rich portion of the property has not been tested by drilling. Ore-grade drillholes on the adjacent S.P. group are within 500' of the eastern boundary of the common SE claim boundary.

Date: October 28, 1985

Signature


Richard J. Lundin

Richard J. Lundin, Mineral Exploration Consultant and President of Wallaby Enterprises Inc. has a BA degree in Anthropology and Geology from Beloit College, Wisconsin and 10 years experience in the evaluation of base and precious metal deposits in the United States and abroad. In addition, he is a Licensed Real Estate Professional in the State of Arizona and a Specialist in Mining Properties and Mineral Industry Investments.

that all of the facts set forth in this affidavit are true and correct according to the best of his knowledge, information and belief.

That he is personally acquainted with the mining claims named in Attachment A that are situate in the Middle Camp Mining District, La Paz County, Arizona, the location of which are recorded in the office of the County Recorder of that County in various Books and Pages. (see Attachment A) Notices of Location are posted located in Sections 31, 32, 5, 6, & 36 Townships 3N & 4N Range 20W & 21W G&SRB&M.

That between the dates of September 1, 1984 and August 31, 1985 at least Eight Thousand Three Hundred (\$8,300,00) dollars worth of work and improvements were made and performed upon this claim not including location work.

The work and improvements were made by and at the expense of Walter E. Heinrichs, James D. Loghry, William C. Hirt and Richard J. Lundin, owners of the property for the purpose of complying with the laws of the United States pertaining to assessments or annual work.

Richard J. Lundin, James D. Loghry, Michael Russ, William Fierm, and Chris Herald were the names of the persons employed by the owners who labored to do the work and improvements. All of the above mentioned individuals are senior Geologists or Mining Engineers with many years experience in all phases of mineral exploration.

The work and improvements done consisted of: surface geochemical surveys, and the preparation of a Summary Report describing the results of an integrated program of detailed geologic mapping and geophysical studies. (See Attachment B)

Dated 11/30/85

Richard J. Lundin
Signature

Subscribed to and sworn before me, a Notary Public, this 30th day of November, 1985, by Rosena A. Brown

My Commission expires July 25, 1986
Rosena A. Brown

Notary Public

THIS DOESN'T HELP US
EVEN A LITTLE BIT
WHEN IT COMES
TO ENTERING YOUR LABOR
HT IN OUR STR
FILE. PLEASE
READ THE
ENCLOSED MEMO
& SEE IF YOU
WOULDN'T LIKE TO
GO ALONG WITH
OUR SUGGESTED
FORMAT ON AN
EXHIBIT "A".
WE COULD HAVE
A LOT MORE
ACCURATE
FILE IF YOU
WOULD.
hp



LOIS K. HESSE
RECORDER
(602) 669-6136

La Paz County Recorder

1121 ARIZONA AVENUE
MAILING ADDRESS - P.O. BOX 940
PARKER, ARIZONA 85344

SUSANNA OLGUIN
CHIEF DEPUTY RECORDER
(602) 669-6136

BETTY J. CULP
VOTER REGISTRATION DEPUTY
(602) 669-6137

M E M O

We keep a geographical card file on all mining activity in our county filed by Section, Township & Range. Normally, only new claims get listed in this file, but so many of our clients claims were filed before we became a county we do not have these on our cards. Consequently, we have added a new dimension to our file out of necessity.

New claims are listed on colored 3X5 index cards, anything else such as Labor, Quit Claim Deeds, Notice of Intent to Hold etc, etc are listed on white 3X5 cards so that whoever looks at the file is able to discern any activity in a given area.

WE FIRMLY SUGGEST THE FOLLOWING FORMAT, for everyones benefit!!!!!!!!!!!!!!

Claim Name	Dte/Pg or Recording #'s	BLM #'s	S	T	R
Example: SAMPLE 1	1307/692	AMC 89023	36	4N	20W
SAMPLE 2	84-924	AMC 90678	35,36	4N	20W

The numbers in this circle
are supposed to be the #'s
of your original Mining Claims, NOT last years Aff/Labor

If there is not room on the actual document you wish to file you could add this information on another piece of paper, attach it to whatever you are filing and title it "Exhibit A". In the space calling for this info on a Labor Affidavit you could just print in "see Ex A".

Thanking you in advance for your consideration in this matter.

Sincerely,

Lois K. Hesse

DEADLINES

Complete ACTUAL WORK on mines by September 1 (noon)

File Affidavit of Labor with County Recorder DECEMBER 30

Copy of Aff/Labor to be received by BLM by DECEMBER 30

The above deadlines were verified by telephone by me, with Marsha Luke, Supervisor, Public Services 8/30/85, who represents BLM.

IMPORTANT NOTICE!!!!

[illegible]

SAMPLE 1-10	85-1-10 <u>or</u> Dkt/Pg #	AMG 19640-49	36	4N	20W
	1025/1-10				

County

County Recorder

1121 ARIZONA AVENUE
POST OFFICE BOX 940
PARKER, ARIZONA 85344

LUNDIN

PHONE 669-6136
AREA CODE 602

Lois K. Hesse

12-5-85

WE RETURN HERewith THE FOLLOWING:

AND

- ☒ Insufficient fee enclosed.
Recording fee is 6.00 PLUS 1.00 postage and handling ~~OR~~ a self-addressed
prepaid envelope for each recorded document.
- ☐ Insufficient fee enclosed. Total amount due is _____.
- ☐ Recording fee is _____ if Affidavit of Value required.
- ☐ Recording fee is _____ if Affidavit of Value not required.
- ☐ Postage and handling fee is _____.
- ☐ Please make check payable for correct amount and/or U.S. Currency.
- ☐ Please make check payable to LA PAZ COUNTY RECORDER.
- ☐ Arizona law requires caption stating the nature of the document.
- ☐ Death certificate/instrument not certified copy. MUST be certified by issuing agency.
- ☐ Document not sufficiently legible to make certified copies therefrom.
- ☐ Photostatic copies not recordable. Document MUST have original signatures.
- ☐ Recording data of instrument being assigned/released/modified not given.
(Need book, page, and recording date written on face of instrument.)
- ☐ Notary Public's acknowledgement not completed/attached.
- ☐ Document not dated/signed.
- ☐ Document should be recorded in _____ County.
- ☐ Document should be recorded with the Secretary of States office; State Capitol Building; West Wing; Phoenix, AZ 85007.
- ☐ Affidavit of Value should be appended to each Deed or Contract for the sale of real estate which is presented for recording—unless exempt under ARS 42-1614.
IF EXEMPT-EXEMPTION MUST BE STATED ON THE FACE OF DEED.
- ☒ Other. WE DO NOT RECORD PAPER MAPS LARGER
THAN 8 1/2 X 14.
- ☐ Enclosed Acceptance Clause should be signed by the Grantees (buyers), notarized and attached to the deed.

We believe you would wish to complete the above items before recording of the instrument(s) is accomplished.

Lois K. Hesse
LA PAZ County Recorder

lv

SUMMARY REPORT
SE CLAIM GROUP

by Richard J. Lundin, Mineral Exploration Consultant

1. Mine or Property Name: SE Claim Group
2. Mining District, County & State: Middle Camp-Oro Fino Mining District, La Paz County, Arizona
3. Quadrangles or Map Names: Middle Camp Mountain AZ (1:24,000)
4. Location: T. 3N & 4N, R. 20W & 21W, Sections 31, 32, 5, 6 & 36
5. Any Former Names: Scott Copper, Royal Investment Corp. Property, Scott-Weaver Copper Mine, Weaver Mine, Sugarloaf Peak Project (Kerr-McGee Corp.)
6. Owners: Walter E. Heinrichs, James D. Loghry, Wombat Mining Co. (Richard J. Lundin, owner) & William C. Hirt
7. Address of Owners: C/O Heinrich's GEOEXploration Inc., 810 W. Grant Rd., Tucson AZ 85705; Telephone: (602) 623-0578
8. Operator: same as above
9. Address of Operators: same as above
10. Principal Metals: Cu, Au, Ag, U
11. Number of Claims, Title etc.: 78 unpatented lode claims,
12. Previous Published or Unpublished Reports: Bancroft, H., (1911), Heikes, V.C., and Yale, C.G. (1913); Jones, E.L., Jr. (1916b); Kincannon, R.B. (1926); Gardner, E.D. and Johnson, (1934); Householder, E. Ross (1956a & 1956b); Wilson, E. (1961) Kerr-McGee Private Reports (1971, 1973a & 1973b); Johnson, M.G. (1972) numerous other private company reports, maps and file data, Arizona Department of Mines and Mineral Resources File Data, Crowl, W.J. (1975); Keith, S.B. (1978); Lundin, R. (1982a & 1982b) Dausinger, N.E. (1983)
13. Names of Mining Companies or Governmental Agencies that have worked or are now working on this property: Royal Investment Corp., Congdon & Carey, McIntyre-Porcupine, Kerr-McGee, Newmont, Gulf Minerals, Texasgulf Western, Bear Creek, Echo Bay, Felmont, Gold Fields, AMSELCO, AMAX, FMC, Labradorex, AMOCO and Meridian Minerals.
14. Ore & Gangue Minerals: Auriferous and argentiferous pyrite and chalcopyrite, malachite, azurite, chrysocolla, tenorite, molybdenite, alunitite, iron and manganese oxides associated with extensive areas of sericite-chlorite-alunite-pyrophyllite alteration and extensive silicification, areas of extensive talc-serpentine and tourmaline veining, placer gold
15. Geology: Triassic felsic intrusives and metavolcanics that are overlain by a highly sheared and deformed sequence of Cretaceous volcanics, volcaniclastics, sediments, and cataclastics. These units were then strongly fractured and extremely altered to a alunite-pyrophyllite-quartz-sericite-chlorite-clay assemblage and intruded by a series of intermediate-felsic Laramide-Tertiary volcanic plugs and associated silicious, base and precious metal vein systems. Quaternary gravels and alluvium.

GIVING US THIS
INFO IN THIS
MANNER DOES
NOT HELP US
KEEP AN
ACCURATE
STR FILE.
PLEASE READ
MEMO !!

EXHIBIT "A"

IMPORTANT NOTICE!!!!

TYPE OR LEGIBLY PRINT
REQUESTED INFORMATION
IN BLACK INK.

[illegible]

P.S. If more than one claim was originally filed at the same time, have consecutive BLM #'s and are in the same STR they may be listed as follows:

SAMPLE 1-10

85-1-10 or Dkt/Pg #
1025/1-10

AMC 19640-49

36

4N

20W

CLIENT: AMOCO MINERALS

GEOLOGIST: M. BROCH

NUMBER OF SAMPLES: 168

GEOLOGIST ,

PRIORITY: 0

REPORT NUMBER: BV123-0487

PROJECT: NONE GIVEN

DATE: 15-APR-83

SEE APPENDIX FOR EXPLANATION OF DIGESTION, ANALYSIS, SAMPLE TYPE, AND SIEVE SIZE CODES.

DIGESTION / ANALYSIS CODE REC# / SAMPLE NUMBER / T / S	ELEMENT	AU F / I PPB
✓ 0074 S3-27	D 1	5
✓ 0075 S3-28	D 1	25
✓ 0076 S3-29	D 1	30
✓ 0077 S3-31	D 1	50
✓ 0081 S4-1	D 1	145
✓ 0082 S4-18	D 1	200
✓ 0083 S4-24	D 1	25
✓ 0084 S4-25	D 1	15
✓ 0085 S4-27	D 1	25
✓ 0086 S4-30	D 1	20
✓ 0087 S5-01	D 1	130
✓ 0088 S5-02	D 1	50
✓ 0089 S5-03	D 1	220
✓ 0090 S5-04	D 1	70
✓ 0091 S5-05	D 1	1100
✓ 0092 S5-06	D 1	100
✓ 0093 S5-07	D 1	20
✓ 0094 S5-08	D 1	20
✓ 0095 S5-09	D 1	10
✓ 0096 S5-10	D 1	15
✓ 0097 S5-11	D 1	100
✓ 0098 S5-12	D 1	55
✓ 0099 S5-13	D 1	535
✓ 0100 S5-14	D 1	95
✓ 0101 S5-15	D 1	15
✓ 0102 S5-16	D 1	50
✓ 0103 S5-18	D 1	10
✓ 0104 S5-19	D 1	105
✓ 0105 S5-20	D 1	L 5
✓ 0106 S5-21	D 1	5
✓ 0107 S7-2	D 1	35
✓ 0108 S7-3	D 1	L 5
✓ 0109 S7-4	D 1	5
✓ 0110 S7-09	D 1	L 5
✓ 0111 S7-10	D 1	L 5

---CONTINUED NEXT PAGE---



CHEMEX LABS LTD.

212 BROOKSBANK AVE
NORTH VANCOUVER, B.C.
CANADA V7J 2C1

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

TELEPHONE: (604) 984-0221

TELEX: 043-52597

CERTIFICATE OF ANALYSIS

1 : AMOCO MINERALS COMPANY
U.S.A. MINERALS EXPLORATION DIVISION
P.O. BOX 3986
7200 SOUTH ALTON WAY
ENGLEWOOD, COLORADO 80155

CERT. # : A8316681-001-A
INVOICE # : I8316681
DATE : 7-DEC-83
P.O. # : NONE
E-82-109-B

ATTN: FRANK MACK CC: AMOCO MINERALS

Sample description	Prep code	Cu ppm	AU-AA ppb				
F 2633	205	32	<10	--	--	--	--
F 2634	205	35	<10	--	--	--	--
F 2635	205	57	<10	--	--	--	--
F 2636	205	138	<10	--	--	--	--
F 2637	205	1080	<10	--	--	--	--
F 2638	205	5800	<10	--	--	--	--
F 2639	205	5500	<10	--	--	--	--
F 2640	205	2800	<10	--	--	--	--
F 2641	205	965	<10	--	--	--	--
F 2642	205	>10000	20	--	--	--	--
F 2643	205	4500	10	--	--	--	--
F 2644	205	485	<10	--	--	--	--
F 2645	205	4900	<10	--	--	--	--
F 2646	205	3900	10	--	--	--	--
F 2647	205	560	<10	--	--	--	--
F 2648	205	195	<10	--	--	--	--
F 2649	205	110	<10	--	--	--	--
F 2650	205	165	<10	--	--	--	--

SE Claims / Ariz State Permit
FW Mack Mapping + Sampling
1983



MEMBER
CANADIAN TESTING
ASSOCIATION

Certified by

Hart Bichler

AMOCO MINERALS COMPANY
333 W. Hampden Ave., Suite 508
Englewood, Colorado, 80110
(303) 761-5921

F 2633

Name FULLER Date 11/12/83
Project LA PAZ District _____
Quad _____ Sec _____ T _____ R _____
Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
ROCK SAMPLE Rock Type Qtz. f. r. & porph
Color _____ Texture _____
% Qtz _____ % Feld _____ % Mafics _____ % Grdm _____

Alteration: silicified + carbonaceous
silicified str. Fe & crosscut by Qtz
Mineralization: Limonite, J _____ G _____ H _____
% Pyrite _____

Geochem ☒ Assay _____ Spec _____ T. Sec. _____
☒ Mo _____ Pb _____ Zn _____ Sn _____
F _____ Au ☒ Ag _____

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F 2636

Name FULLER Date 11/14/83
Project LA PAZ District _____
Quad _____ Sec _____ T _____ R _____
Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
ROCK SAMPLE Rock Type Intensive schist
Color _____ Texture _____
% Qtz _____ % Feld _____ % Mafics _____ % Grdm _____

Alteration: schistose w/ clay alt.
Mineralization: Limonite, J _____ G _____ H _____
% Pyrite _____

Geochem ☒ Assay _____ Spec _____ T. Sec. _____
☒ Mo _____ Pb _____ Zn _____ Sn _____
F _____ Au ☒ Ag _____

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F 2634

Name FULLER Date 11/14/83
Project LA PAZ District _____
Quad _____ Sec _____ T _____ R _____
Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
ROCK SAMPLE Rock Type _____
Color _____ Texture _____
% Qtz _____ % Feld _____ % Mafics _____ % Grdm _____

Alteration: bleached - oxidized
Mineralization: Limonite, J _____ G _____ H _____
% Pyrite _____

Geochem ☒ Assay _____ Spec _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

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F 2637

Name FULLER Date 11/14/83
Project LA PAZ District _____
Quad _____ Sec _____ T _____ R _____
Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
ROCK SAMPLE Rock Type _____
Color _____ Texture _____
% Qtz _____ % Feld _____ % Mafics _____ % Grdm _____

Alteration: silicified - strongly oxidized
Mineralization: Limonite, J _____ G _____ H _____
% Pyrite _____

Geochem ☒ Assay _____ Spec _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

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F 2635

Name FULLER Date 11/14/83
Project LA PAZ District _____
Quad _____ Sec _____ T _____ R _____
Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
ROCK SAMPLE Rock Type Qtz. m. & porph
Color _____ Texture _____
% Qtz _____ % Feld _____ % Mafics _____ % Grdm _____

Alteration: oxidized - carbonaceous
Mineralization: Limonite, J _____ G _____ H _____
% Pyrite _____

Geochem ☒ Assay _____ Spec _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

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F 2638

Name FULLER Date 11/14/83
Project LA PAZ District _____
Quad _____ Sec _____ T _____ R _____
Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
ROCK SAMPLE Rock Type _____
Color _____ Texture _____
% Qtz _____ % Feld _____ % Mafics _____ % Grdm _____

Alteration: silicified (late veins) -
strongly oxidized - silicified
Mineralization: Limonite, J _____ G _____ H _____
% Pyrite _____

Geochem ☒ Assay _____ Spec _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

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F 2639

Name Fuller Date 11/15/83
Project La Paz District _____
Quad _____ Sec. _____ T. _____ R. _____
Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
(ROCK SAMPLE Rock Type Q.M.P.
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdn

Alteration: Oxidized

Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite CuOx

Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

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F 2642

Name Fuller Date 11/15/83
Project La Paz District _____
Quad _____ Sec. _____ T. _____ R. _____
Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
(ROCK SAMPLE Rock Type _____
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdn

Alteration: clay altered, oxidized

Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite Cu, Fe, MnO

Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

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F 2640

Name Fuller Date 11/15/83
Project La Paz District _____
Quad _____ Sec. _____ T. _____ R. _____
Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
(ROCK SAMPLE Rock Type Q.M.P.
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdn

Alteration: oxidized, copper-rich

Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite CuOx, MnO

Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

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F 2643

Name Fuller Date 11/15/83
Project La Paz District _____
Quad _____ Sec. _____ T. _____ R. _____
Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
(ROCK SAMPLE Rock Type _____
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdn

Alteration: _____

Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite _____

Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

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F 2641

Name Fuller Date 11/15/83
Project La Paz District _____
Quad _____ Sec. _____ T. _____ R. _____
Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
(ROCK SAMPLE Rock Type Qtz, Vein
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdn

Alteration: oxidized

Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite CuOx

Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

AMOCO MINERALS COMPANY
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(303) 761-5921

F 2644

Name Fuller Date 11/15/83
Project La Paz District _____
Quad _____ Sec. _____ T. _____ R. _____
Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
(ROCK SAMPLE Rock Type quartzite intr.
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdn

Alteration: clay altered, oxidized

Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite _____

Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

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F 2645

(Name Fuller Date 11/15/83
Project La Paz District _____
Quad _____ Sec. _____ T. _____ R. _____
(Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
(ROCK SAMPLE Rock Type monzonite
Color _____ Texture intrusive
_____% Qtz _____% Feld _____% Mafics _____% Grdm
Alteration: extreme clay alteration,
oxidized
Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite CuOx, MnO
(Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

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F 2646

(Name Fuller Date 11/15/83
Project La Paz District _____
Quad _____ Sec. _____ T. _____ R. _____
(Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
(ROCK SAMPLE Rock Type monzonite
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdm
Alteration: oxidized
Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite CuOx, MnO
(Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

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F 2647

(Name Fuller Date 11/15/83
Project La Paz District _____
Quad _____ Sec. _____ T. _____ R. _____
(Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
(ROCK SAMPLE Rock Type monzonite
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdm
Alteration: oxidized
Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite _____
(Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

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F 2648

(Name Fuller Date 11/15/83
Project La Paz District _____
Quad _____ Sec. _____ T. _____ R. _____
(Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
(ROCK SAMPLE Rock Type _____
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdm
Alteration: _____
Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite _____
(Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

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F 2649

(Name Fuller Date 11/15/83
Project La Paz District _____
Quad _____ Sec. _____ T. _____ R. _____
(Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
(ROCK SAMPLE Rock Type _____
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdm
Alteration: _____
Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite _____
(Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

AMOCO MINERALS COMPANY
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(303) 761-5921

F 2650

(Name Fuller Date 11/15/83
Project La Paz District _____
Quad _____ Sec. _____ T. _____ R. _____
(Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
(ROCK SAMPLE Rock Type _____
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdm
Alteration: _____
Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite _____
(Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____



HEINRICH'S GEOEXPLORATION COMPANY

P. O. BOX 5964, TUCSON, ARIZONA 85703. 806 WEST GRANT ROAD. PHONE: (602) 623-0578

February 24, 1984

Amoco Minerals Company
P. O. Box 3299
Englewood, CO 80155

Re: AMC #L-100183, Ariz. State Prospecting
Permit No. 83801, La Paz County, AZ

Attn: Mr. James C. Hiatt
Sr. Land Representative.

Dear Mr. Hiatt:

Furthering my letter to you of 22 February 1984 this will acknowledge receipt today of Art Humphrey's letter and attachments of 21 February 1984 which document Amoco work on the State Prospecting Permit ground during 1983 in the amount of \$1,259.44. We appreciate receiving this detail from him. We still need the one 1982-1983 assessment drill hole log and the drill site location to complete the factual record of all work done by Amoco although, we thought there was also some geochem sampling done and if so we should get those results & locations.

Regarding the State Land dilemma, now that we have Art Humphrey's detail, we would propose to call matters square if we receive the difference in cash from Amoco, i.e., \$3,200.00 required to be spent, less \$1,259.44 actually spent, equals \$1,940.56 difference in cash to be received from Amoco. In that context, a statement in that amount is herewith enclosed.

Sincerely,
Heinrichs GEOEXploration Co.


Walter E. Heinrichs, Jr., President

WEH:jh

cc: A. Humphrey
M. Nesbit
W. Hirt
J. Loghry
R. Lundin ✓
File



HEINRICHS GEOEXPLORATION COMPANY

P. O. BOX 5964, TUCSON, ARIZONA 85703. 806 WEST GRANT ROAD. PHONE: (602) 623-0578

STATEMENT

February 24, 1984

Amoco Minerals Company
P. O. Box 3299
Englewood, CO 80155

Re: AMC #L-100183, Ariz. State Prospecting
Permit No. 83801, La Paz County, AZ

Amount agreed to spend-----\$3,200.00

Amount spent----- 1,259.44

BALANCE DUE:-----\$1,940.56

AMOCO MINERALS COMPANY
333 W. Hampden Ave., Suite 508
Englewood, Colorado, 80110
(303) 761-5921

F 2639

(Name Fuller Date 11/15/83
Project La Paz District _____
Quad. _____ Sec. _____ T. _____ R. _____
(Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
(ROCK SAMPLE Rock Type g.m.p.
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdm

Alteration: oxidized

Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite CuOx

(Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

AMOCO MINERALS COMPANY
333 W. Hampden Ave., Suite 508
Englewood, Colorado, 80110
(303) 761-5921

F 2642

(Name Fuller Date 11/15/83
Project La Paz District _____
Quad. _____ Sec. _____ T. _____ R. _____
(Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
(ROCK SAMPLE Rock Type ?
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdm

Alteration: thinly bedded

Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite CuOx, MnO

(Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

AMOCO MINERALS COMPANY
333 W. Hampden Ave., Suite 508
Englewood, Colorado, 80110
(303) 761-5921

F 2640

(Name Fuller Date 11/15/83
Project La Paz District _____
Quad. _____ Sec. _____ T. _____ R. _____
(Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
(ROCK SAMPLE Rock Type g.m.p.
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdm

Alteration: oxidized, carbonitized

Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite CuOx, MnO

(Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

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333 W. Hampden Ave., Suite 508
Englewood, Colorado, 80110
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F 2643

(Name Fuller Date 11/15/83
Project La Paz District _____
Quad. _____ Sec. _____ T. _____ R. _____
(Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
(ROCK SAMPLE Rock Type _____
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdm

Alteration: _____

Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite _____

(Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

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F 2641

(Name Fuller Date 11/15/83
Project La Paz District _____
Quad. _____ Sec. _____ T. _____ R. _____
(Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
(ROCK SAMPLE Rock Type Qtz. vein
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdm

Alteration: oxidized

Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite CuOx

(Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

AMOCO MINERALS COMPANY
333 W. Hampden Ave., Suite 508
Englewood, Colorado, 80110
(303) 761-5921

F 2644

(Name Fuller Date 11/15/83
Project La Paz District _____
Quad. _____ Sec. _____ T. _____ R. _____
(Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
(ROCK SAMPLE Rock Type magmatic intrusion
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdm

Alteration: clay altered, oxidized

Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite _____

(Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

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Englewood, Colorado, 80110
(303) 761-5921

F 2645

(Name Fuller Date 11/15/83
Project La Paz District _____
Quad _____ Sec. _____ T. _____ R. _____
Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
(ROCK SAMPLE Rock Type monzonite
intrusive
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdm
Alteration: extreme clay alteration,
oxidized
Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite CuOx, MnO
Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

AMOCO MINERALS COMPANY
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(303) 761-5921

F 2646

(Name Fuller Date 11/15/83
Project La Paz District _____
Quad _____ Sec. _____ T. _____ R. _____
Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
(ROCK SAMPLE Rock Type monzonite intrusive
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdm
Alteration: oxidized
Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite CuOx, MnO
Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

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(303) 761-5921

F 2647

(Name Fuller Date 11/15/83
Project La Paz District _____
Quad _____ Sec. _____ T. _____ R. _____
Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
(ROCK SAMPLE Rock Type monzonite intrusive
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdm
Alteration: oxidized
Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite
Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

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(303) 761-5921

F 2648

(Name Fuller Date 11/15/83
Project La Paz District _____
Quad _____ Sec. _____ T. _____ R. _____
Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
(ROCK SAMPLE Rock Type _____
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdm
Alteration: _____
Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite
Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

AMOCO MINERALS COMPANY
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(303) 761-5921

F 2649

(Name Fuller Date 11/15/83
Project La Paz District _____
Quad _____ Sec. _____ T. _____ R. _____
Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
(ROCK SAMPLE Rock Type _____
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdm
Alteration: _____
Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite
Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

AMOCO MINERALS COMPANY
333 W. Hampden Ave., Suite 508
Englewood, Colorado, 80110
(303) 761-5921

F 2650

(Name Fuller Date 11/15/83
Project La Paz District _____
Quad _____ Sec. _____ T. _____ R. _____
Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
(ROCK SAMPLE Rock Type _____
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdm
Alteration: _____
Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite
Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

2781
523

35
105

465

27
3
72

22
70

Wet Cam Cor
st #23-33

clim. shack

N

P. A. in Xim & P. A.

Scale 1" = 200'

543

D. S.

F.W. Mack
8/83



CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1

TELEPHONE: (604) 984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

1 : AMOCO MINERALS COMPANY
U.S.A. MINERALS EXPLORATION DIVISION
P.O. BOX 3986
7200 SOUTH ALTON WAY
ENGLEWOOD, COLORADO 80155

CERT. # : A8316681-001-A
INVOICE # : I8316681
DATE : 7-DEC-83
P.O. # : NONE
E-82-109-B

ATTN: FRANK MACK CC: AMOCO MINERALS

Sample description	Prep code	Cu ppm	AU-AA ppb				
F 2633	205	32	10	--	--	--	--
F 2634	205	35	<10	--	--	--	--
F 2635	205	57	<10	--	--	--	--
F 2636	205	138	<10	--	--	--	--
F 2637	205	1080	<10	--	--	--	--
F 2638	205	5800	<10	--	--	--	--
F 2639	205	5500	<10	--	--	--	--
F 2640	205	2800	<10	--	--	--	--
F 2641	205	965	<10	--	--	--	--
F 2642	205	>10000	20	--	--	--	--
F 2643	205	4500	10	--	--	--	--
F 2644	205	485	<10	--	--	--	--
F 2645	205	4900	<10	--	--	--	--
F 2646	205	3900	10	--	--	--	--
F 2647	205	560	<10	--	--	--	--
F 2648	205	195	<10	--	--	--	--
F 2649	205	110	<10	--	--	--	--
F 2650	205	165	<10	--	--	--	--

SE Claims / Ariz State Permit
FW Mack Mapping + Sampling
1983



CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1

TELEPHONE: (604) 984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS

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CERTIFICATE OF ANALYSIS

1 : AMOCO MINERALS COMPANY
U.S.A. MINERALS EXPLORATION DIVISION
P.O. BOX 3986
7200 SOUTH ALTON WAY
ENGLEWOOD, COLORADO 80155

CERT. # : A8316681-001-A
INVOICE # : 18316681
DATE : 7-DEC-83
P.O. # : NONE
E-82-109-8

ATTN: FRANK MACK CC: AMOCO MINERALS

Sample description	Prep code	Cu ppm	AU-AA ppb				
F 2633	205	32	10	--	--	--	--
F 2634	205	35	<10	--	--	--	--
F 2635	205	57	<10	--	--	--	--
F 2636	205	138	<10	--	--	--	--
F 2637	205	1080	<10	--	--	--	--
F 2638	205	5800	<10	--	--	--	--
F 2639	205	5500	<10	--	--	--	--
F 2640	205	2800	<10	--	--	--	--
F 2641	205	965	<10	--	--	--	--
F 2642	205	>10000	20	--	--	--	--
F 2643	205	4500	10	--	--	--	--
F 2644	205	485	<10	--	--	--	--
F 2645	205	4900	<10	--	--	--	--
F 2646	205	3900	10	--	--	--	--
F 2647	205	560	<10	--	--	--	--
F 2648	205	195	<10	--	--	--	--
F 2649	205	110	<10	--	--	--	--
F 2650	205	165	<10	--	--	--	--

SE Claims / Ariz State Permit
FW Mack Mapping + Sampling
1983



MEMBER
CANADIAN TESTING
ASSOCIATION

Certified by

Hart Buchler

AMOCO MINERALS COMPANY
333 W. Hampden Ave., Suite 508
Englewood, Colorado, 80110
(303) 761-5921

F 2633

Name FULLER Date 11/12/83
Project LA PAZ District _____
Quad _____ Sec _____ T _____ R _____
Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
ROCK SAMPLE Rock Type Qtz. martz, porph
Color _____ Texture _____
% Qtz _____ % Feld _____ % Mafics _____ % Grdm _____
Alteration: silicified - carbonized
silicified str FeOx cement by Qtz
Mineralization: Limonite, J _____ G _____ H _____
% Pyrite _____
Geochem ☒ Assay _____ Spec _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

AMOCO MINERALS COMPANY
333 W. Hampden Ave., Suite 508
Englewood, Colorado, 80110
(303) 761-5921

F 2636

Name FULLER Date 11/14/83
Project LA PAZ District _____
Quad _____ Sec _____ T _____ R _____
Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
ROCK SAMPLE Rock Type Intrusive schist
Color _____ Texture _____
% Qtz _____ % Feld _____ % Mafics _____ % Grdm _____
Alteration: schistose w/ clay mlt.
Mineralization: Limonite, J _____ G _____ H _____
% Pyrite _____
Geochem ☒ Assay _____ Spec _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

AMOCO MINERALS COMPANY
333 W. Hampden Ave., Suite 508
Englewood, Colorado, 80110
(303) 761-5921

F 2634

Name FULLER Date 11/14/83
Project LA PAZ District _____
Quad _____ Sec _____ T _____ R _____
Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
ROCK SAMPLE Rock Type _____
Color _____ Texture _____
% Qtz _____ % Feld _____ % Mafics _____ % Grdm _____
Alteration: bleached - oxidized
Mineralization: Limonite, J _____ G _____ H _____
% Pyrite _____
Geochem ☒ Assay _____ Spec _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

AMOCO MINERALS COMPANY
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Englewood, Colorado, 80110
(303) 761-5921

F 2637

Name FULLER Date 11/14/83
Project LA PAZ District _____
Quad _____ Sec _____ T _____ R _____
Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
ROCK SAMPLE Rock Type _____
Color _____ Texture _____
% Qtz _____ % Feld _____ % Mafics _____ % Grdm _____
Alteration: silicified - strongly oxidized
Mineralization: Limonite, J _____ G _____ H _____
% Pyrite _____
Geochem ☒ Assay _____ Spec _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

AMOCO MINERALS COMPANY
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Englewood, Colorado, 80110
(303) 761-5921

F 2635

Name FULLER Date 11/14/83
Project LA PAZ District _____
Quad _____ Sec _____ T _____ R _____
Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
ROCK SAMPLE Rock Type Qtz martz porph
Color _____ Texture _____
% Qtz _____ % Feld _____ % Mafics _____ % Grdm _____
Alteration: oxidized - carbonized
Mineralization: Limonite, J _____ G _____ H _____
% Pyrite _____
Geochem ☒ Assay _____ Spec _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

AMOCO MINERALS COMPANY
333 W. Hampden Ave., Suite 508
Englewood, Colorado, 80110
(303) 761-5921

F 2638

Name FULLER Date 11/14/83
Project LA PAZ District _____
Quad _____ Sec _____ T _____ R _____
Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
ROCK SAMPLE Rock Type _____
Color _____ Texture _____
% Qtz _____ % Feld _____ % Mafics _____ % Grdm _____
Alteration: silicified (Qtz veins) -
silicified oxidized - silicified
Mineralization: Limonite, J _____ G _____ H _____
% Pyrite _____
Geochem ☒ Assay _____ Spec _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

AMOCO MINERALS COMPANY
333 W. Hampden Ave., Suite 508
Englewood, Colorado, 80110
(303) 761-5921

F 2639

Name Fuller Date 11/15/83
Project La Paz District _____
Quad _____ Sec. _____ T. _____ R. _____
Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
ROCK SAMPLE Rock Type g.m.p.
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdn

Alteration: oxidized

Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite CuOx

Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

AMOCO MINERALS COMPANY
333 W. Hampden Ave., Suite 508
Englewood, Colorado, 80110
(303) 761-5921

F 2642

Name Fuller Date 11/15/83
Project La Paz District _____
Quad _____ Sec. _____ T. _____ R. _____
Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
ROCK SAMPLE Rock Type ?
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdn

Alteration: clay altered, iron

Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite CuOx, MnO

Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

AMOCO MINERALS COMPANY
333 W. Hampden Ave., Suite 508
Englewood, Colorado, 80110
(303) 761-5921

F 2640

Name Fuller Date 11/15/83
Project La Paz District _____
Quad _____ Sec. _____ T. _____ R. _____
Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
ROCK SAMPLE Rock Type g.m.p.
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdn

Alteration: oxidized, clay altered

Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite CuOx, MnO

Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

AMOCO MINERALS COMPANY
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Englewood, Colorado, 80110
(303) 761-5921

F 2643

Name Fuller Date 11/15/83
Project La Paz District _____
Quad _____ Sec. _____ T. _____ R. _____
Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
ROCK SAMPLE Rock Type ?
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdn

Alteration: _____

Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite _____

Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

AMOCO MINERALS COMPANY
333 W. Hampden Ave., Suite 508
Englewood, Colorado, 80110
(303) 761-5921

F 2641

Name Fuller Date 11/15/83
Project La Paz District _____
Quad _____ Sec. _____ T. _____ R. _____
Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
ROCK SAMPLE Rock Type Qtz vein
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdn

Alteration: oxidized

Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite CuOx

Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

AMOCO MINERALS COMPANY
333 W. Hampden Ave., Suite 508
Englewood, Colorado, 80110
(303) 761-5921

F 2644

Name Fuller Date 11/15/83
Project La Paz District _____
Quad _____ Sec. _____ T. _____ R. _____
Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
ROCK SAMPLE Rock Type maficite intr.
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdn

Alteration: clay altered, oxidized

Mineralization: Limonite, J _____ G _____ H _____
_____% Pyrite _____

Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

AMOCO MINERALS COMPANY
333 W. Hampden Ave., Suite 508
Englewood, Colorado, 80110
(303) 761-5921

F 2645

(Name Fuller Date 11/15/83
Project La Paz District _____
Quad _____ Sec. _____ T. _____ R. _____
(Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
(ROCK SAMPLE Rock Type monzonite intrusive
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdn
Alteration: extreme clay alteration, oxidized
Mineralization: Limonite, J. _____ G. _____ H. _____
_____% Pyrite Cu, Mn
(Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

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Englewood, Colorado, 80110
(303) 761-5921

F 2646

(Name Fuller Date 11/15/83
Project La Paz District _____
Quad _____ Sec. _____ T. _____ R. _____
(Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
(ROCK SAMPLE Rock Type monzonite intrusive
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdn
Alteration: oxidized, c
Mineralization: Limonite, J. _____ G. _____ H. _____
_____% Pyrite Cu, Mn
(Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

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Englewood, Colorado, 80110
(303) 761-5921

F 2647

(Name Fuller Date 11/15/83
Project La Paz District _____
Quad _____ Sec. _____ T. _____ R. _____
(Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
(ROCK SAMPLE Rock Type monzonite intrusive
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdn
Alteration: oxidized
Mineralization: Limonite, J. _____ G. _____ H. _____
_____% Pyrite _____
(Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

AMOCO MINERALS COMPANY
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Englewood, Colorado, 80110
(303) 761-5921

F 2648

(Name Fuller Date 11/15/83
Project La Paz District _____
Quad _____ Sec. _____ T. _____ R. _____
(Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
(ROCK SAMPLE Rock Type _____
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdn
Alteration: _____
Mineralization: Limonite, J. _____ G. _____ H. _____
_____% Pyrite _____
(Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

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(303) 761-5921

F 2649

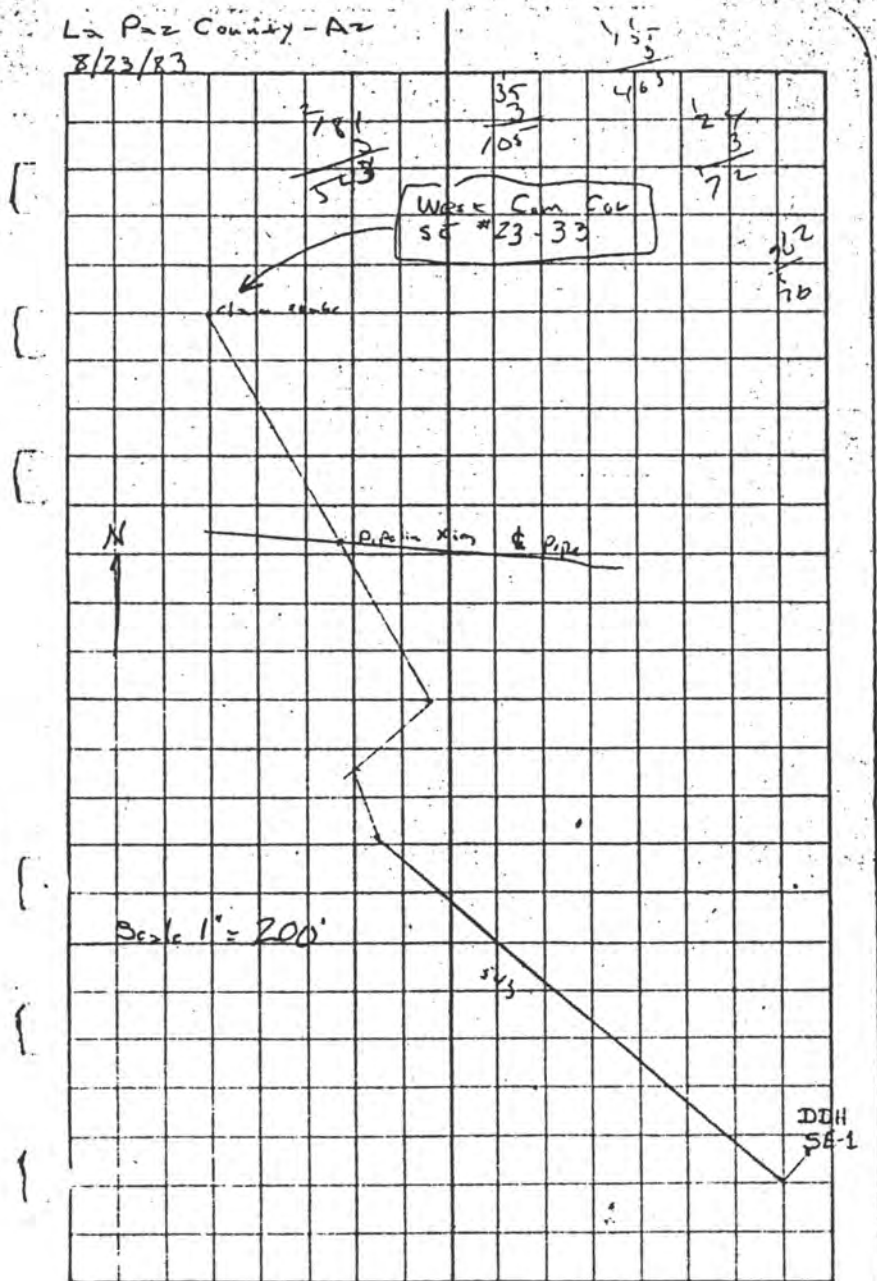
(Name Fuller Date 11/15/83
Project La Paz District _____
Quad _____ Sec. _____ T. _____ R. _____
(Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
(ROCK SAMPLE Rock Type _____
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdn
Alteration: _____
Mineralization: Limonite, J. _____ G. _____ H. _____
_____% Pyrite _____
(Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

AMOCO MINERALS COMPANY
333 W. Hampden Ave., Suite 508
Englewood, Colorado, 80110
(303) 761-5921

F 2650

(Name Fuller Date 11/15/83
Project La Paz District _____
Quad _____ Sec. _____ T. _____ R. _____
(Coordinates _____
Rock ☒ Core _____ Soil _____ Strm. Sed. _____ Water _____
Elevation _____ Footage _____ to _____
(ROCK SAMPLE Rock Type _____
Color _____ Texture _____
_____% Qtz _____% Feld _____% Mafics _____% Grdn
Alteration: _____
Mineralization: Limonite, J. _____ G. _____ H. _____
_____% Pyrite _____
(Geochem ☒ Assay _____ Spec. _____ T. Sec. _____
Cu ☒ Mo _____ Pb _____ Zn _____ Sn _____
W _____ F _____ Au ☒ Ag _____

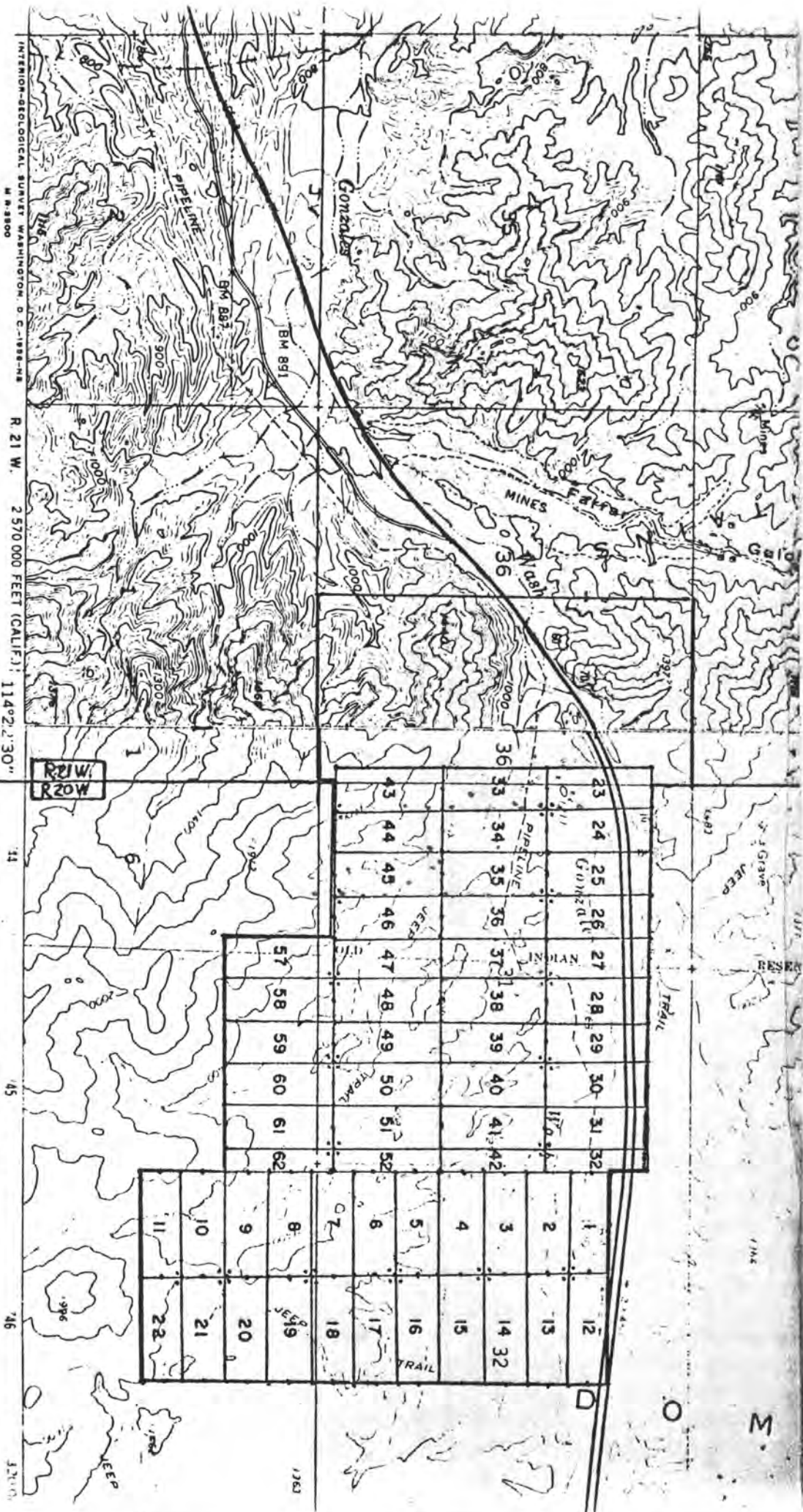
La Paz County - Az
8/23/83



Surveyed Location
Drill Hole SE-1

F.W. Mack
8/83

Au, par
(Rock Samples)



ROAD CLASSIFICATION

- Heavy-duty ——— Light-duty
- Medium-duty ——— Unimproved dirt
- U.S. Route ——— State Route

LA PAZ MTN., ARIZ.-CALIF.

NW/4 DOME ROCK MTS 15' QUADRANGLE

N3337.5-W11422.5/7.5

1955

Mapped, edited and published by the Geological Survey
Control by USGS and USCGS

Photography by photogrammetric method: from aerial
Photographs taken 1970. Field checked 1971

Projection and 10,000-foot grid tics: Arizona coordinate
system, west zone (transverse Mercator)

1000-meter Universal Transverse Mercator grid tics,
zone 11, shown in blue. 1927 North American datum

Where omitted, land lines have not been established

MIDDLE CAMP MTN.
QUADRANGLE

SE CLAIM GROUP
YUMA COUNTY ARIZONA

1980

Scale 1:50,000
1000' 2000' 3000' 3500'

MEMORANDUM


TO: G. N. Hall
FROM: R. A. Newell
SUBJECT: SE Claim Expenditures; Cholla Prospect
Yuma Co., Arizona
File No. 3128-E
DATE: August 17, 1982

NEL initiated active investigation of the SE Claims, Dome Rock Mtns., Yuma Co., Arizona on March 18, 1982. Ninety-three rock geochemical samples have been collected during the course of our activities, and expenditures total \$1,698.33.

The two samplers, Mr. E. Owens and Steve van Kouteren, are graduate geologists with about 1 year of professional experience each. Mr. Owens earned a B.Sc. geology degree from University of California, Riverside, 1981, and Mr. van Kouteren obtained his B.Sc. in geology from Penn. State University, 1981. Both individuals, employed by NEL for about one year, were directed by J. O. Guthrie, Senior Newmont Geologist, with 13 years' experience and B.Sc. from University of California, Santa Barbara, and M.Sc. University of Mass., Amherst, Mass. Our expenditures are summarized in the following table:

SE CLAIM EXPENDITURES
(Year to Date)

<u>Assaying Charges</u>	93 samples	\$ 653.80
<u>Labor Charges</u>	8 man days	780.35
<u>Travel & Living Expenses</u>		<u>264.18</u>
		\$1,698.33


R. A. Newell

RAN:re

August 30, 1982

SE Claims, and State Prospect Permit, Yuma County, AZ.

Purchase Price: \$10,000,000 or \$5,000,000 plus perpetual NSR or equivalent royalty 4% Federal lands, 2% State lands. All payments, including production royalties, are applicable to purchase price.

Payments toward purchase price:

Year 1), first 6 months \$6,000

second 6 months \$7,500

2) \$18,000

3) \$21,000

4) \$24,000

5) and beyond \$24,000

All payments, excepting production royalties, structured as capital gains.

If above terms are acceptable, owners require no term to agreement. If a reduced price is offered and accepted, owners insist on a 5 year term.

^{30?}
60 day notice required prior to dropping claims. Annual labor must be performed if claims are held beyond February 1 of any one year; must be physical labor, i.e. drilling. 1981-82 labor may be non-physical, i.e. geologic mapping, geochemical sampling - \$5800 on SE claims; State P.P. 320 acres, \$3200, before March 16, 1983 1984-87 P.P. rental is \$320 per year, \$3200 assessments work must be accomplished before March 16, 1983 and the same before March 16, 1984 and \$6400 accomplished in each of 3 succeeding years through March 16, 1987.

One mile perimeter protection.

All factual data released to owners when option is dropped.

Periodic information to be made available; confidentiality observed.



WOMBAT MINING COMPANY

3425 W. Bardot St.

Tucson, Arizona 85741

April 1981

SE Claims Summary Sheet

The SE claims are in the Middle Camp-Oro Fino mining district in the Dome Rock Mountains in Yuma County, Arizona. The claims are immediately south of Interstate 10, about eight miles west of Quartzsite, Arizona and about thirteen miles east of Blythe, California. The claim group consists of 58 lode claims, located in sections 31 and 32 T4N R20W, sections 5 and 6 T3N R20W, and section 36 T4N R21W, totalling about 1120 acres. This area is shown on the Middle Camp Mountain USGS 7 1/2 minute topographic map. The claims bear US BLM Serial Numbers AMC 105414 through AMC 105471. They were staked in 1980.

Ownership of the claims rests with four Arizona residents, each with a one quarter undivided interest. These people are Walter E. Heinrichs, Jr., William C. Hirt, James D. Loghry, and Richard J. Lundin, all of Tucson, Arizona.

The exploration target is a porphyry copper-molybdenum deposit. During the period 1962-1975, mapping, sampling and rotary and diamond exploration drilling totalling approximately 18,500 feet was done by several concerns, one of them a major oil and mining company. Results of some of this work are available and are included as a part of this submittal. We feel that the mineralization disclosed thus far warrants further investigation.

Further information may be obtained by writing to any of the four owners at the above address or by telephoning 602-623-0578.



WOMBAT MINING COMPANY

3425 W. Bardot St.

Tucson, Arizona 85741

June 12, 1981

SE Claims Geological Synopsis

The SE claims are in the Middle Camp - Oro Fino Mining District in Yuma County, Arizona. Past production from the district includes over 12,000 ounces of gold with 1500 ounces of contained silver from placer operations and minor production of lead, zinc, copper, gold and silver from several small lode mines.

The dominant rocks exposed within the district in the Dome Rock Mountains are Precambrian schist and granite. In the SE claim area, these rocks have been intruded by a stock of probable Laramide age. Extrusion of a Tertiary quartz porphyry flow followed; outcrops of this rock are found capping Sugarloaf Peak and scattered north of I-10. Late Tertiary gravels and Quaternary alluvium lap up onto the mountains.

Porphyry copper-type alteration is well developed within the claim area; alteration types include propylitic, pyritic, phyllic, and potassic. The original geometric relations between the various alteration zones have been obscured by structural dislocations along faults.

Surface geochemical sampling has disclosed anomalous lead, zinc, molybdenum, bismuth, and tin values.

Primary copper mineralization (disseminated chalcopyrite now partially oxidized to various copper oxide minerals) is found on the surface in the Hancock Wash area (Hancock Wash is the large wash in the south half of section 31 T4N R20W). This mineralization is associated with a block of exposed potassic alteration.

A minimum of 18,500 feet of recorded rotary and core drilling has been carried out in the Sugarloaf Peak area by various companies; data from some of this drilling is available in addition to other reports and maps and is included in the larger body of text which is available on request. The reader's attention is drawn to DDH Q-1 through Q-6. These holes were drilled in the Hancock Wash area intercepting schist and quartz monzonite (a phase of the



WOMBAT MINING COMPANY

3425 W. Bardot St.

Tucson, Arizona 85741

Laramide (?) intrusive). DDH Q-1, which was drilled mostly in schist, had intercepts of 200 feet of about 0.6% copper from the surface to a depth of about 200 feet; the copper is in the form of brochantite, chrysocolla, and malachite, partly disseminated and partly on fractures, and also disseminated and veinlet chalcopyrite. There is a further 30 feet of approximately 0.6% copper (disseminated chalcopyrite - bornite) at 400 - 430 feet. The mineralization in Q-1 is associated with sericite and biotite alteration.

DDH Q-3 intercepted 203 feet of 0.43% copper mineralization, mostly in quartz monzonite, from about 190 feet to about 400 feet of depth. The mineralization is in the form of chalcopyrite associated with phyllic alteration (quartz-sericite-pyrite).

Increased amounts of molybdenum are associated with the copper mineralization intercepted in DDH Q-1 and Q-3, and probably elsewhere as well.

In DDH Q-6 was found 50 feet of 0.2% copper in a faulted block of quartz monzonite. The mineralization is chalcopyrite associated with quartz-sericite-pyrite alteration and some tourmaline.

Tourmaline was noted in all of the Q holes, but most strongly in holes Q-2, Q-4, and Q-6, both disseminated and in veinlets.

Many of the earmarks of economic porphyry copper deposits found elsewhere in the Southwest are present in the Sugarloaf Peak area. These include the Pb-Zn-Mo geochemical anomalies, the well developed and widespread alteration zoning, presence of abundant alunite and tourmaline, and outcrops of disseminated copper mineralization in a potassic alteration zone. All these favorable geological characteristics taken with the data gathered thus far, indicate that more work is warranted to test for the presence of economic quantities of disseminated copper - molybdenum mineralization in the Sugarloaf Peak area.

William C. Hirt
Geological Engineer
and Metallurgist

May 1981

SE Claims Data and Reports

(in approximate chronological order)

1. McPhar Geophysics IP and Resistivity Survey Location Map (Fig.3), undated but probably between 1962 and 1971.
2. Report titled "Base Metal Distribution at Sugarloaf Peak, Quartzsite Mining District, Yuma County, Arizona" dated August 1971, text 4 pp., with drill hole data including core logs, drill chip logs, and metal ratio graphs for drill holes DDH S-1, DDH S-2, DDH S-3, DDH SL-4, DDH SL-5, DDH SL-6, RH SL-7, RH S-8, RH S-10, RH SL-13, and DDH SL-15 (these are partly rotary and partly core holes), accompanied by map titled "Generalized Alteration - Sugarloaf Peak Area", dated August 1971 (two copies, one with outline of claim block), and also by another map (undated) entitled "Dome Rock Mtns Quad" which shows the location of the S and SL holes.
3. Assay logs for RH V-1 through RH V-15 (all rotary drill holes except for three feet of NX core on hole RH V-15), drilled in 1972.
4. Report titled "Exploration Potential of the Sugarloaf Peak Area, Quartzsite Mining District, Yuma County, Arizona" dated May 25, 1973, 12 pp., with 3 pp. cover letter, accompanied by maps:
 - a. "Alteration Map - Sugarloaf Peak Prospect", May 25, 1973.
 - b. Molybdenum Geochemical Values, Lead Geochemical Values, and Mo/Pb Ratio Maps, all of the Sugarloaf Peak Prospect, dated May 1973.
 - c. Cross Section through Sugarloaf Peak, dated May 1973.
 - d. Magnetometer Survey Profiles, dated May 1973.
5. Assay and Core Logs for DDH Q-1 through Q-6 (NX core holes drilled in 1974-1975).
6. Map titled "Quartzsite Geology and Alteration" dated February 1975 showing location of Q holes.
7. Map titled "Quartzsite Project, Yuma County, Arizona", dated May 30, 1975 showing location of Q holes.
8. Undated Map showing drill hole locations and claim block outline.
9. Geologic Map of the Central Dome Rock Mountains by W. J. Crowl, 1975 (University of Arizona thesis).
10. SE Claim Group Map, 1980.



October 24, 1989

To: Vicki & Rich Lundin

From: Jim Loghry

Re: Stray Elephant Partner Responsibilities

Walt Heinrichs sent you a request for payment of \$102.50 for SE assessment fees payable to Stray Elephant Claimowners one month ago; it doesn't matter when ; you have failed to respond.

You can:

- 1) Send check for \$102.50 to me payable to Stray Elephant Claimowners now; letter will be postmarked no later than 10/30/89;
- 2) Accept partners' offer to buy you out for \$2000.00. OR,
- 3) I will advertise you out of the partnership.

It's time you stopped stiffing your friends and partners.
I recommend course #1!

VERY SINCERELY,

James D. Loghry

cc: Walt Heinrichs
Bill Hirt



HEINRICHS GEOEXPLORATION COMPANY

P.O. BOX 5964, TUCSON, ARIZONA 85703 806 WEST GRANT ROAD. PHONE: (602) 623-0578

February 9, 1982

SE Property Geological Synopsis

The SE property is in the Middle Camp - Oro Fino Mining District in Yuma County, Arizona. Past production from the district includes over 12,000 ounces of gold with 1500 ounces of contained silver from placer operations and minor production of lead, zinc, copper, gold and silver from several small lode mines.

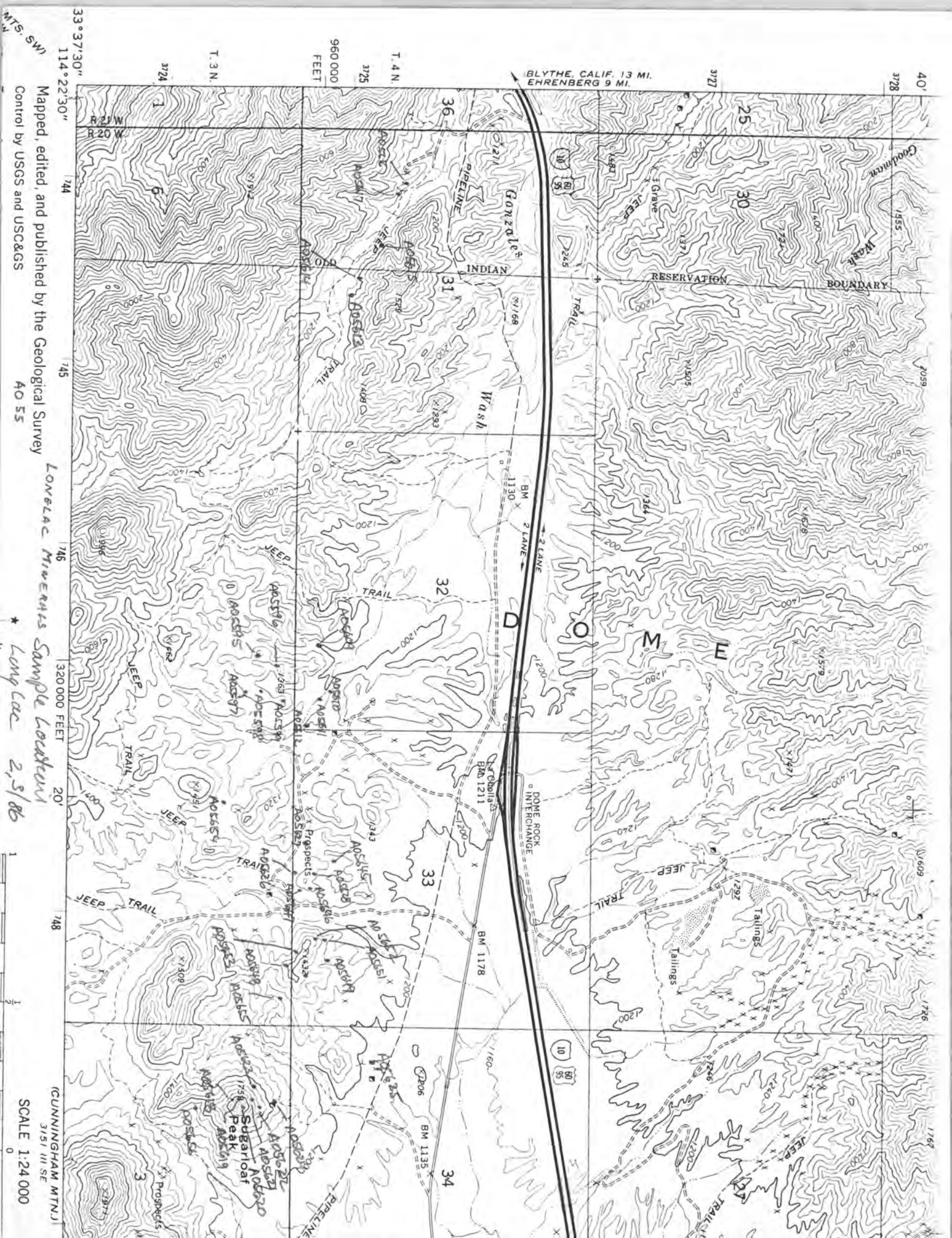
The dominant rocks exposed within the district in the Dome Rock Mountains are Precambrian schist and granite. In the SE property area, these rocks have been intruded by a stock of probable Laramide age. Extrusion of a Tertiary quartz porphyry flow followed; outcrops of this rock are found capping Sugarloaf Peak and scattered north of I-10. Late tertiary gravels and Quaternary alluvium lap up onto the mountains.

Porphyry copper-type alteration is well developed within the property; alteration types include propylitic, pyritic, phyllic, and potassic. The original geometric relations between the various alteration zones have been obscured by structural dislocations along faults.

Surface geochemical sampling has disclosed anomalous lead, zinc, molybdenum, bismuth, and tin values. ^{gold,}
^

Primary copper mineralization (disseminated chalcopryite now partially oxidized to various copper oxide minerals) is found on the surface in the Hancock Wash area (Hancock Wash is the large wash in the south half of section 31 T4N R20W). This mineralization is associated with a block of exposed potassic alteration.

A minimum of 18,500 feet of recorded rotary and core drilling has been carried out in the Sugarloaf Peak area by various companies; data from some of this drilling is available in addition to other reports and maps and is included in the larger body of text which is available on request. The reader's attention is drawn to DDH Q-1 through Q-6. These holes were drilled in the Hancock Wash area intercepting schist and quartz monzonite (a phase of the



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Lone Lac Minerals Sample Location
* Lone Lac 2,5/86
CUNNINGHAM MTN.
3151 III SE
SCALE 1:24 000



WALLABY ENTERPRISES INCORPORATED

TUCSON OFFICES:

810 WEST GRANT ROAD - P.O. BOX 5964 - TUCSON, ARIZONA 85703 - (602) 623-0579
3425 WEST BARDOT STREET - TUCSON, ARIZONA 85741 - (602) 744-2700

PRESCOTT OFFICE:

122 EAST GURLEY - SUITE 203 - PRESCOTT, ARIZONA 86301 - (602) 445-8498

November 9, 1982

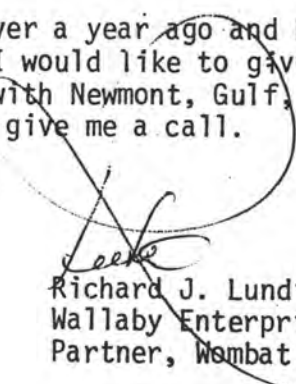
Mr. C. Arnold
Sr. Staff Geologist
Phelps Dodge Corp.
Western Exploration Office
Drawer 1217
Douglas, AZ 85607

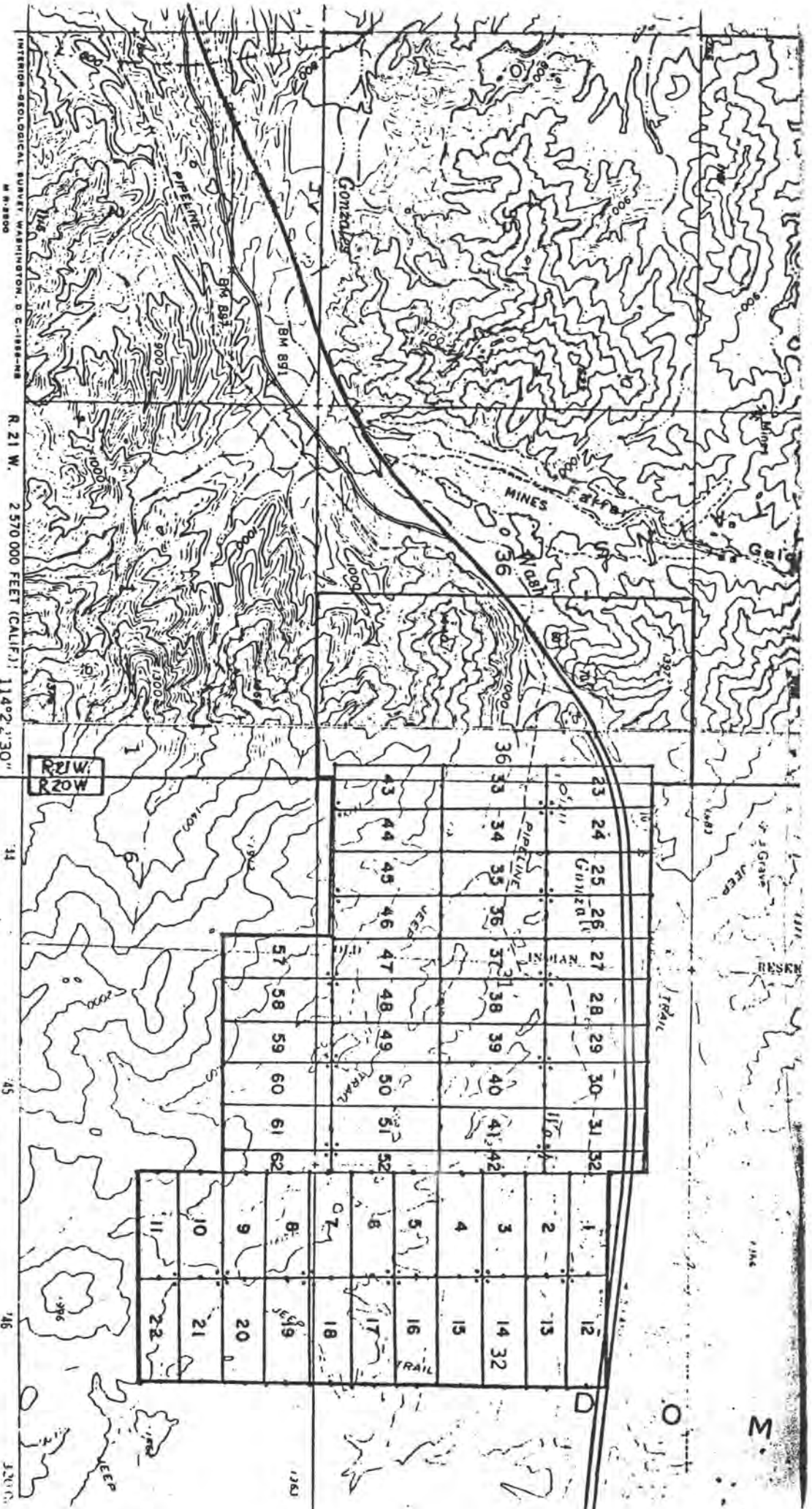
Dear Chuck:

Please find enclosed the latest information on the SE group at Quartzite. The numbers are quite good and indicative of a large pyritic gold system. The letter prefixes refer to the company that gathered the samples. (e.g. Newmont=N, Felmont=F, Gulf=G; Wallaby=W or SE) The red colored areas are zones of silicified quartz crystal tuff that are strongly pyritic (1-10% py).

The situation is that Westworld Oil & Gas have the adjacent SP group and have plans for me to finish up the mapping at a 1"=200' scale in anticipation of initiating a drilling program around the first of the year. I feel that the altered area on the SE group has similar promise but needs more work to better define the geochemical anomaly. We are looking for an outfit to finish up this geochemical work and take a look at the remobilized Au-magnetite mineralization on the State Prospecting Permit area.

We originally submitted this to Phelps Dodge over a year ago and have heard nothing since. Could you get DuHamel off the dime? I would like to give P.D. some sort of opportunity to deal with us prior to signing up with Newmont, Gulf, Westworld or one of the others. If you are not interested please give me a call.


Richard J. Lundin, President
Wallaby Enterprises & Managing
Partner, Wombat Mng. Co.



ROAD CLASSIFICATION

- Heavy-duty ————
- Medium-duty ————
- Light-duty ————
- Unimproved dirt ————
- U. S. Route □
- State Route ○

LA PAZ MTN., ARIZ.—CALIF

NW/4 DOME ROCK MTS 15' QUADRANGLE
N3337.5—W11422.5/7.5

1955

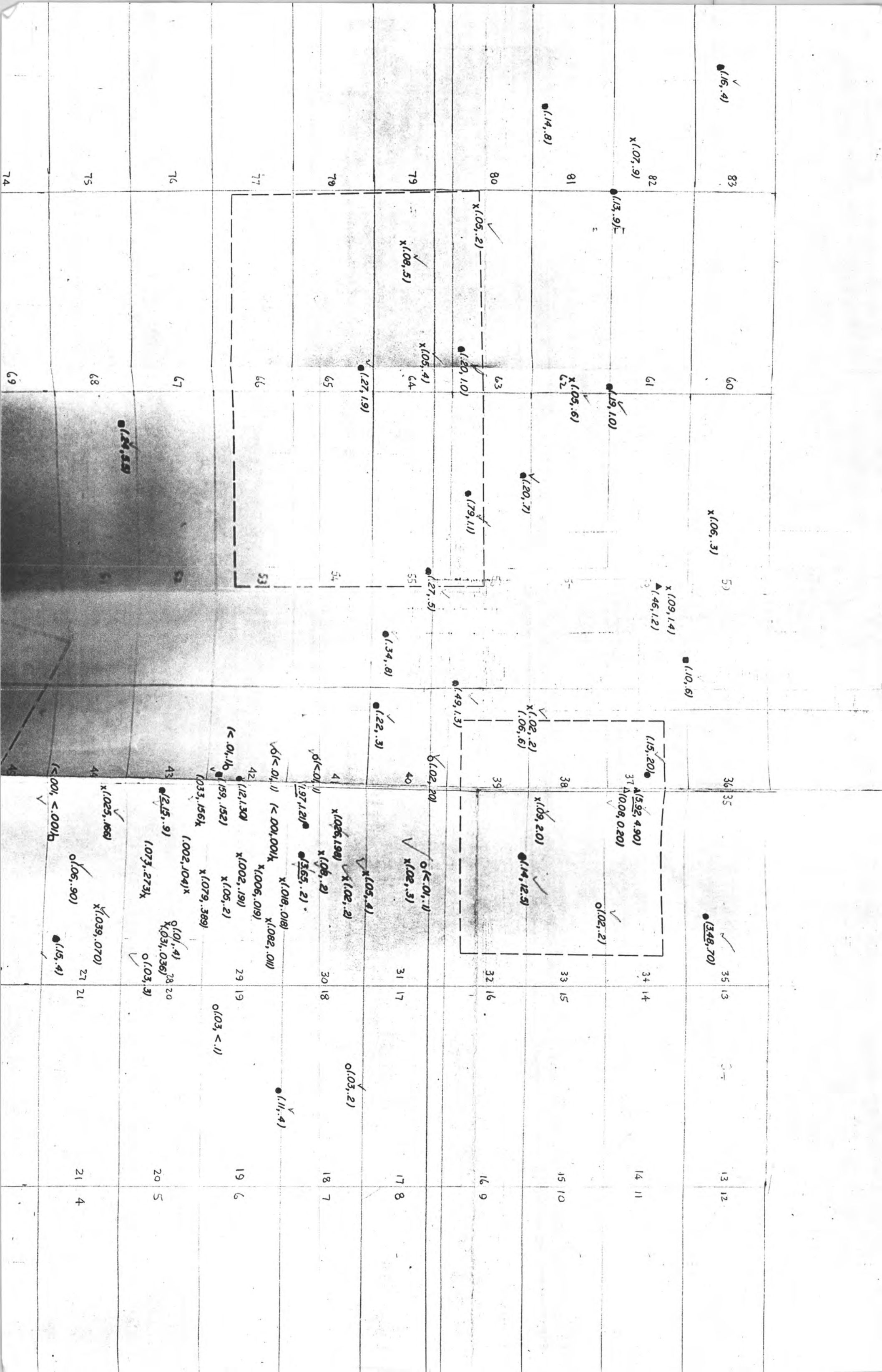
Mapped, edited and published by the Geological Survey
Control by USGS and USCGS

Photography by photogrammetric method; from aerial
photographs taken 1970. Field check 11/71
Projection and 10,000-foot grid ticks. Arizona coordinate
system, west zone (transverse Mercator)
1000-meter Universal Transverse Mercator grid ticks;
zone 11, shown in blue. 1927 North American datum
Where omitted, land lines have not been established

0 1000' 2000' 3000' 3500'

SE CLAIM GROUP
YUMA COUNTY ARIZONA

1980



ATTACHMENT B

SUMMARY REPORT
SE CLAIM GROUP

by Richard J. Lundin, Mineral Exploration Consultant

1. Mine or Property Name: SE Claim Group
2. Mining District, County & State: Middle Camp-Oro Fino Mining District, La Paz County, Arizona
3. Quadrangles or Map Names: Middle Camp Mountain AZ (1:24,000)
4. Location: T. 3N & 4N, R. 20W & 21W, Sections 31, 32, 5, 6 & 36
5. Any Former Names: Scott Copper, Royal Investment Corp. Property, Scott-Weaver Copper Mine, Weaver Mine, Sugarloaf Peak Project (Kerr-McGee Corp.)
6. Owners: Walter E. Heinrichs, James D. Loghry, Wombat Mining Co. (Richard J. Lundin, owner) & William C. Hirt
7. Address of Owners: C/O Heinrich's GEOEXploration Inc., 810 W. Grant Rd., Tucson AZ 85705; Telephone: (602) 623-0578
8. Operator: same as above
9. Address of Operators: same as above
10. Principal Metals: Cu, Au, Ag, U
11. Number of Claims, Title etc.: 78 unpatented lode claims,
12. Previous Published or Unpublished Reports: Bancroft, H., (1911), Heikes, V.C., and Yale, C.G. (1913); Jones, E.L., Jr. (1916b); Kincannon, R.B. (1926); Gardner, E.D. and Johnson, (1934); Householder, E. Ross (1956a & 1956b); Wilson, E. (1961) Kerr-McGee Private Reports (1971, 1973a & 1973b); Johnson, M.G. (1972) numerous other private company reports, maps and file data, Arizona Department of Mines and Mineral Resources File Data, Crowl, W.J. (1975); Keith, S.B. (1978); Lundin, R. (1982a & 1982b) Dausinger, N.E. (1983)
13. Names of Mining Companies or Governmental Agencies that have worked or are now working on this property: Royal Investment Corp., Congdon & Carey, McIntyre-Porcupine, Kerr-McGee, Newmont, Gulf Minerals, Texasgulf Western, Bear Creek, Echo Bay, Felmont, Gold Fields, AMSELCO, AMAX, FMC, Labradorex, AMOCO and Meridian Minerals.
14. Ore & Gangue Minerals: Auriferous and argentiferous pyrite and chalcopryite, malachite, azurite, chrysocolla, tenorite, molybdenite, alanite, iron and manganese oxides associated with extensive areas of sericite-chlorite-alunite-pyrophyllite alteration and extensive silicification, areas of extensive talc-serpentine and tourmaline veining, placer gold
15. Geology: Triassic felsic intrusives and metavolcanics that are overlain by a highly sheared and deformed sequence of Cretaceous volcanics, volcanoclastics, sediments, and cataclastics. These units were then strongly fractured and extremely altered to a alunite-pyrophyllite-quartz-sericite-chlorite-clay assemblage and intruded by a series of intermediate-felsic Laramide-Tertiary volcanic plugs and associated silicious, base and precious metal vein systems. Quaternary gravels and alluvium.

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16. Type of Mineralization-Metallurgical Considerations:

1. "Porphyry" Cu-Mo-Ag-Au-U mineralization associated with areas of potassic, phyllic and argilic in the general vicinity of the "Open Pit" area in Hancock Wash. Adjacent to this area are extensive areas of quartz-tourmaline veining associated with a quartz-chlorite-epidote-potassium feldspar alteration assemblage in metavolcanics and felsic intrusives. From the existing Kerr-McGee drilling information, it appears that the mineralization is of a sulphide character and should be amenable to standard floatation treatment.

2. Disseminated pyritic Au-Mo-Pb-Zn mineralization associated with extensive areas of alunite-pyrophyllite-quartz-sericite-clay alteration in silicified metavolcanics, volcaniclastics, cataclastics and sediments. Mineralization is associated with zones of silicification adjacent to or within radial, concentric and low-angle fracture systems.

3. "Stockwork" Au-Mo-Pb-Zn bearing quartz vein systems that contain masses of free-milling gold. These systems are quite extensive and outcrop in the northeast portion of the property.

17. Ore Reserves: According to a Royal Investment Corp. report on the property, the drill indicated reserves of the copper-rich portion of the property are reported at 3,600,000 tons of mixed oxide and sulphide copper bearing ore that would probably average 1.575% Cu/T., .002 ozs. Au/T. (Householder, E. Ross (1956b)) On the basis of later work, Kerr McGee personnel estimated that the reserve potential of this area might be in the order of 10,000,000 tons of material that would average 1% Cu.

The potential tonnage of the gold-rich portion of the system is unknown at this time. On the adjacent SP property of Westworld Oil and Gas, a recently completed, shallow, drilling program delineated a potential of up to 100,000,000 tons of material that would contain 1.5 million ounces of gold and 25 million ounces of silver (Dausinger, N.E. (1983)) It is felt that a major portion of this system extends on to the SE claim group.

18. Mine, Mill Equipment & Flow Sheet: none

19. Road Conditions: The property is readily accessible by system of roads and jeep trails. Interstate (figures 1 & 2)

20. Water & Power Supply: Water is available for mining and milling activities from the Colorado River by application. An El Paso Natural Gas pipeline runs through the property. Three phase electrical power is locally available.

21. Extent of Development: Considerable, shallow, open cut workings and stripped areas in and along Hancock Wash

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22. Brief History and Past Production: District originally located in the 1890's and worked for high-grade, placer gold deposits. During this period there was only small production from high grade pockets on top of strongly veined bedrock outcrops in the eastern portion of the property. The property was originally located by Miguel Apodoca, and worked in the 1920's as the Weaver or Weaver-Scott Mine. The mine was further developed in the 1950's by Royal Investment Corp. who shipped initiated a drilling program, developed some reserves and shipped several carloads of oxide Cu-Ag-Au ore. It was again operated in the 1960's by Hancock Oil Co., who then leased to Kerr-McGee. Kerr-McGee drilled six core holes (Q1-Q6) in the Hancock Wash area of the property (Q1-Q6). Located by the present ownership in 1980 and leased to AMOCO in 1983. AMOCO drilled one, shallow, hole in the Hancock Wash area and returned the property to the present ownership. Intensive surface sampling, geological-geophysical studies of areas in the gold-rich portion of the property by several major mining companies (1984-1985)

23. Previous Sampling, Drilling & Other Studies on Dumps or Tailings: Considerable surface sampling by several major mining companies (see figure 1 for results) Core drilling by Royal Investment Corp., Kerr-McGee Corp and AMOCO.

24. Environmental-Social-Political Conditions & Considerations: The area is one of past, extensive and recent mining and prospecting activity and is not within any area considered for Wilderness or Restricted Use Status.

25. Sampling: Sampling by various major companies and Wallaby personnel of the surface exposures. (see figure 1 for results)

26. Financial Terms, Conditions & Considerations: The property is currently available for lease or purchase.

Remarks: The property is an old Copper-Gold-Silver producer with drill indicated reserves. Past drilling efforts by several major mining companies have delineated a major, near-surface Cu-Au-Ag-U system. Recent work has delineated extensive areas of intense low-angle shearing, and alunite-sericite alteration and silicification with associated gold and molybdenum mineralization. In the gold-rich portion of the the property are bodies of strongly fluidized breccia that have anomalous gold contents (up to 5.00 ppm Au/T.) Low-angle fracture-vein systems that are known to have anomalous to ore grade gold values on adjacent properties (i.e. the Goodman Mine Vein System) are thought to cross the SE property under alluvial cover. (see figure 1) Detailed geological mapping and geophysical studies carried out during the 1984-1985 Assessment Work Year, delineated numerous small bodies of highly fluidized breccia that may contain anomalous gold values. Structural mapping studies confirmed the radial and concentric pattern to fracturing in the gold-rich portion of the property.

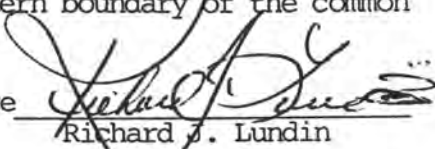
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From the data at hand, it appears that there is a potential for a 5,000,000-10,000,000 ton copper-silver-gold deposit in the Hancock Wash, copper-rich, portion of the property and the potential for several other gold-silver-molybdenum deposits in the gold-rich portion. The gold-rich portion of the property has not been tested by drilling. Ore-grade drillholes on the adjacent S.P. group are within 500' of the eastern boundary of the common SE claim boundary.

Date: October 28, 1985

Signature


Richard J. Lundin

Richard J. Lundin, Mineral Exploration Consultant and President of Wallaby Enterprises Inc. has a BA degree in Anthropology and Geology from Beloit College, Wisconsin and 10 years experience in the evaluation of base and precious metal deposits in the United States and abroad. In addition, he is a Licensed Real Estate Professional in the State of Arizona and a Specialist in Mining Properties and Mineral Industry Investments.

"Postmarked timely" *AK*

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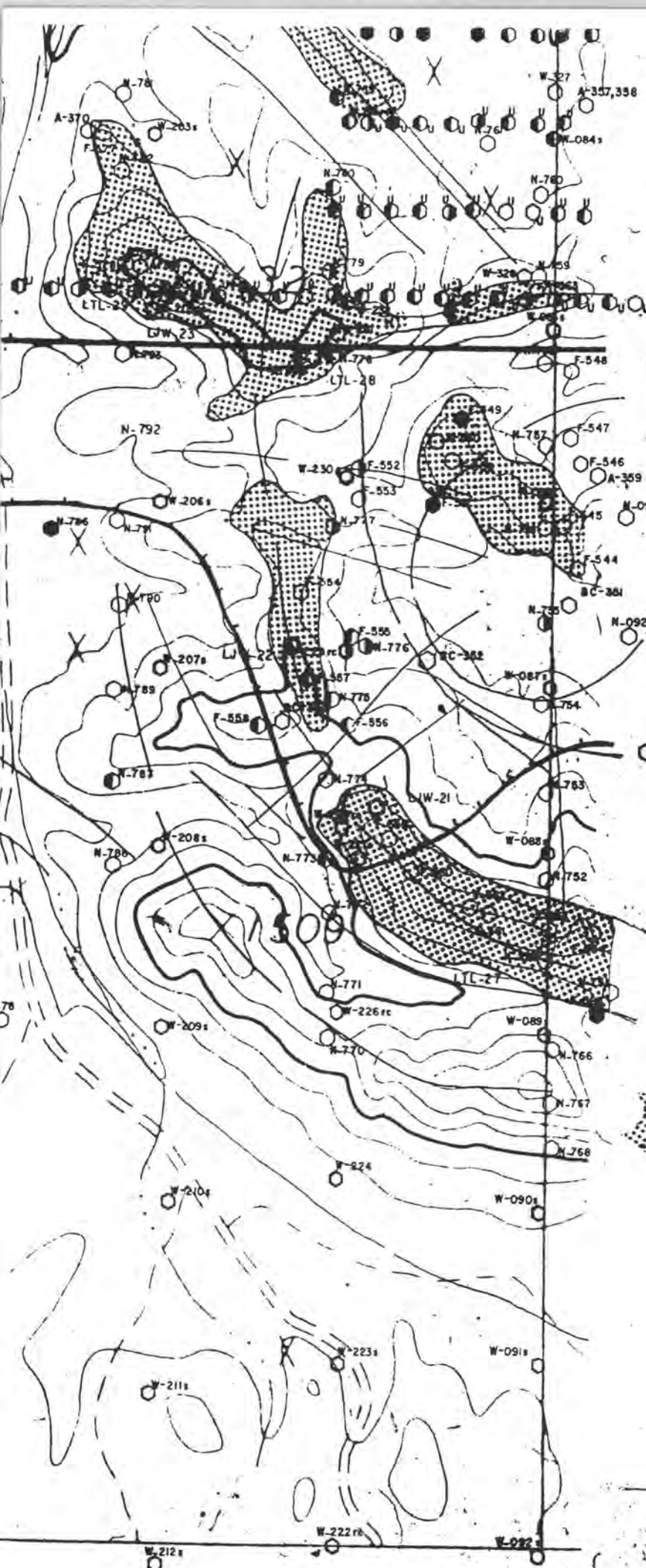


FIGURE 1a
GEOLOGIC & GEOCHEMICAL
SAMPLE LOCATION MAP
SE CLAIM GROUP
YUMA COUNTY ARIZONA

SCALE 1"=500'

EXPLANATION

- LOCATION MONUMENT
- SAMPLE SITES
- ANOMALOUS GOLD ZONES
- ANOMALOUS COPPER ZONES
- LOW ANGLE FAULT
- LINEAR STRUCTURES
- ANOMALOUS SILICIFIED ZONES
- <0.02 to 0.02 ppm Au
- 0.03 to 0.29 ppm Au
- 0.30 to 0.99 ppm Au
- >1.0 ppm Au

WALLABY
ENTERPRISES
INC.

Breccia Zones

1984-1985 Geochemical Sample Sites

1984-1985 Radiometric/ULF-EM Traverses

ULF-EM Crossovers

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PHOENIX, ARIZONA

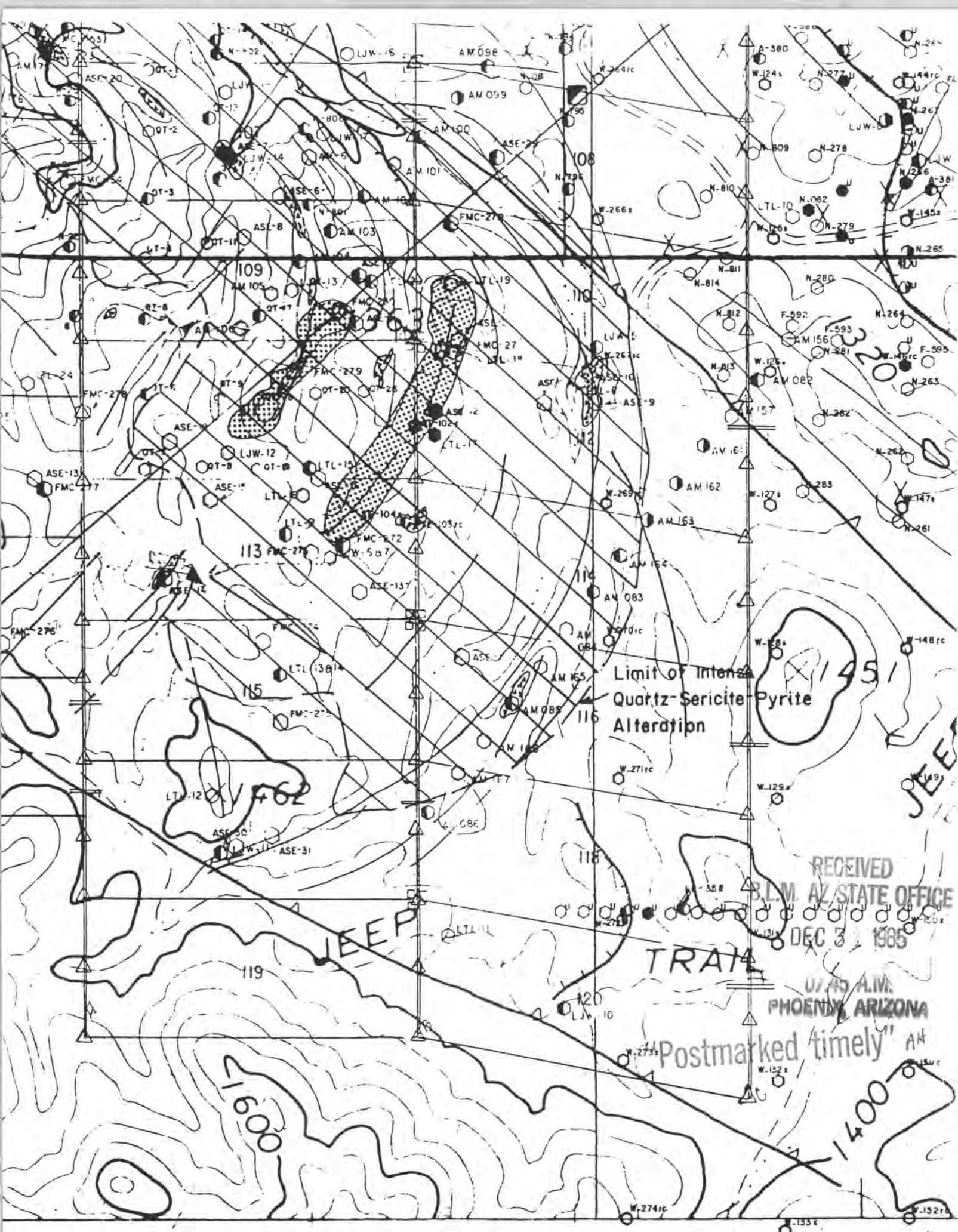


Figure 1b

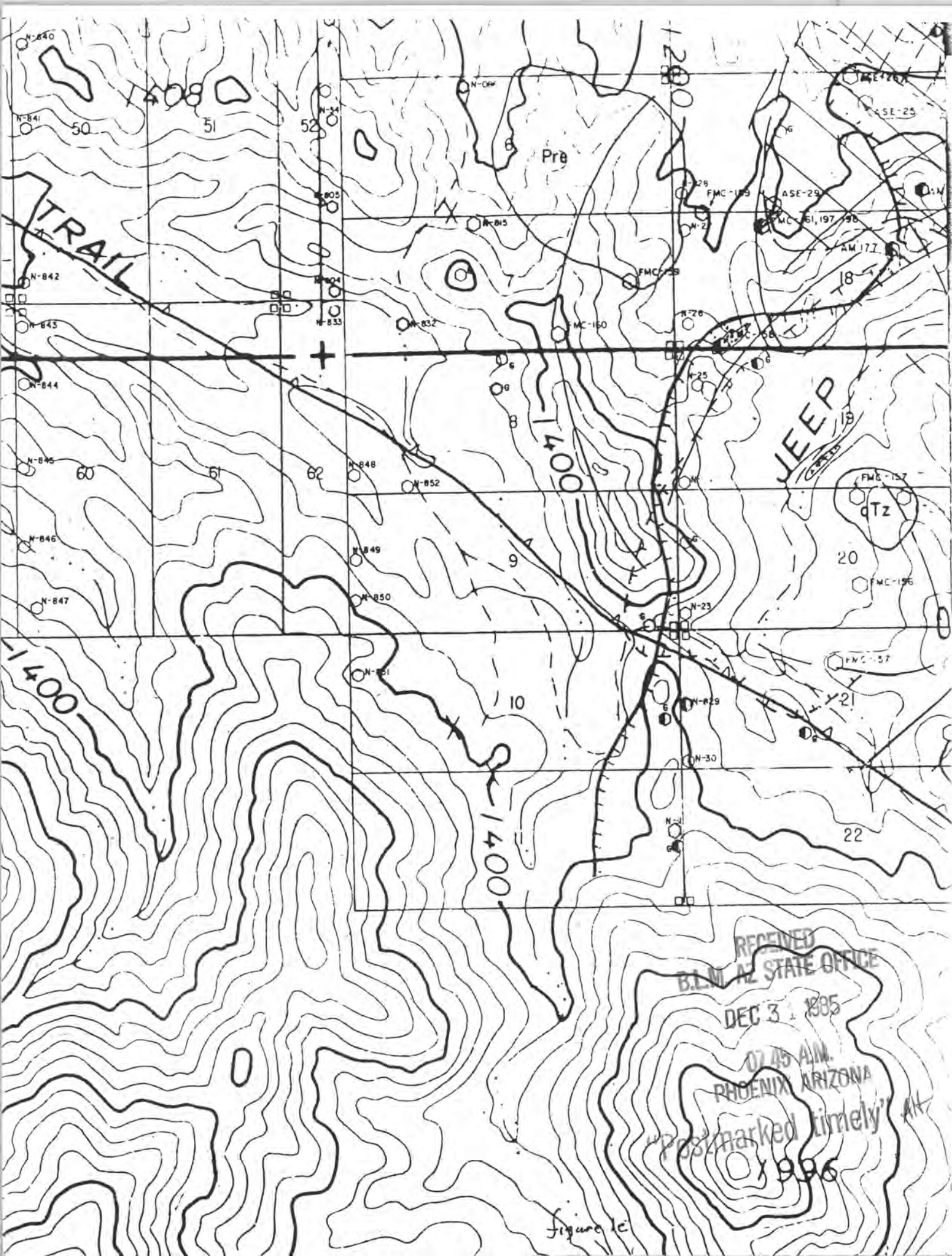
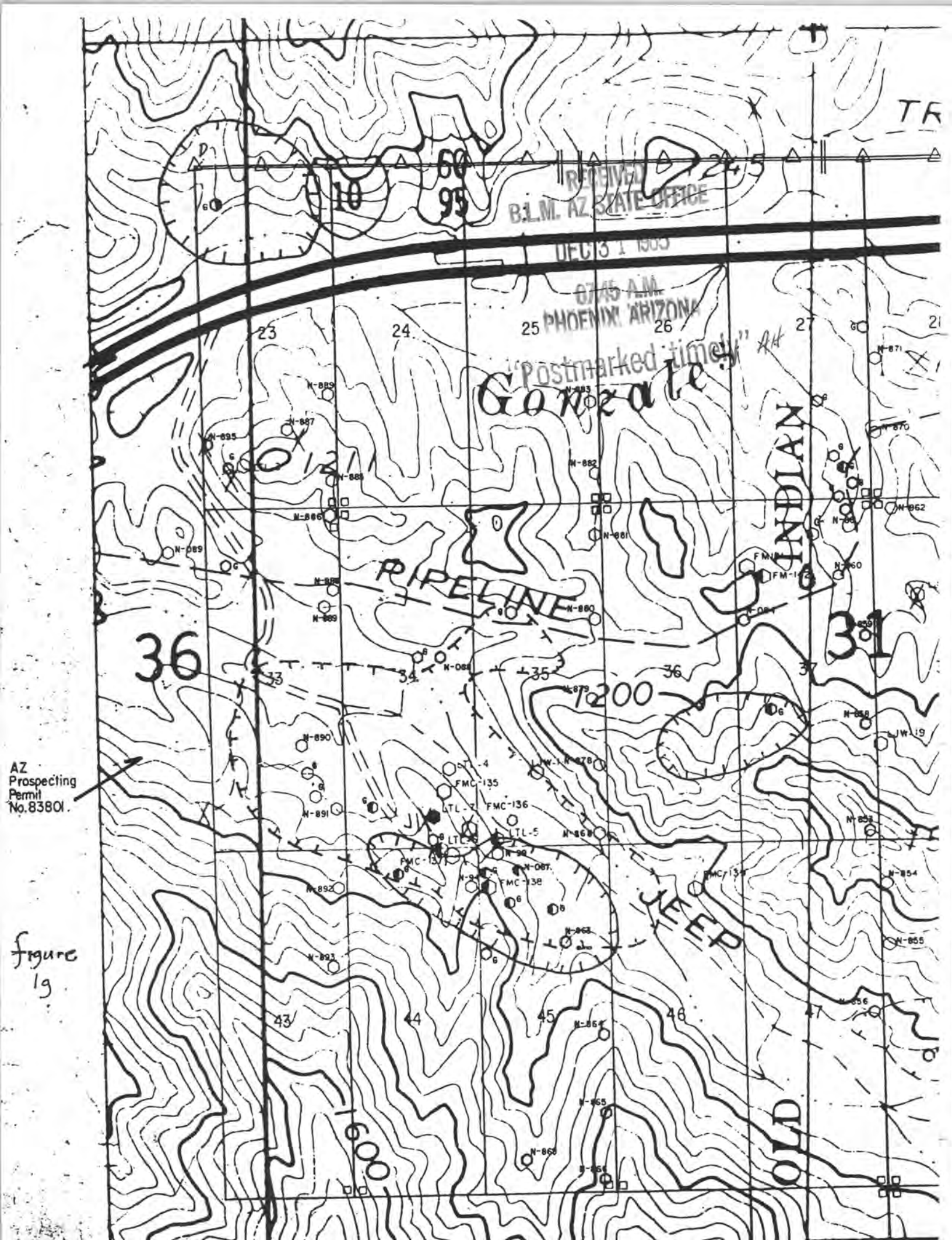
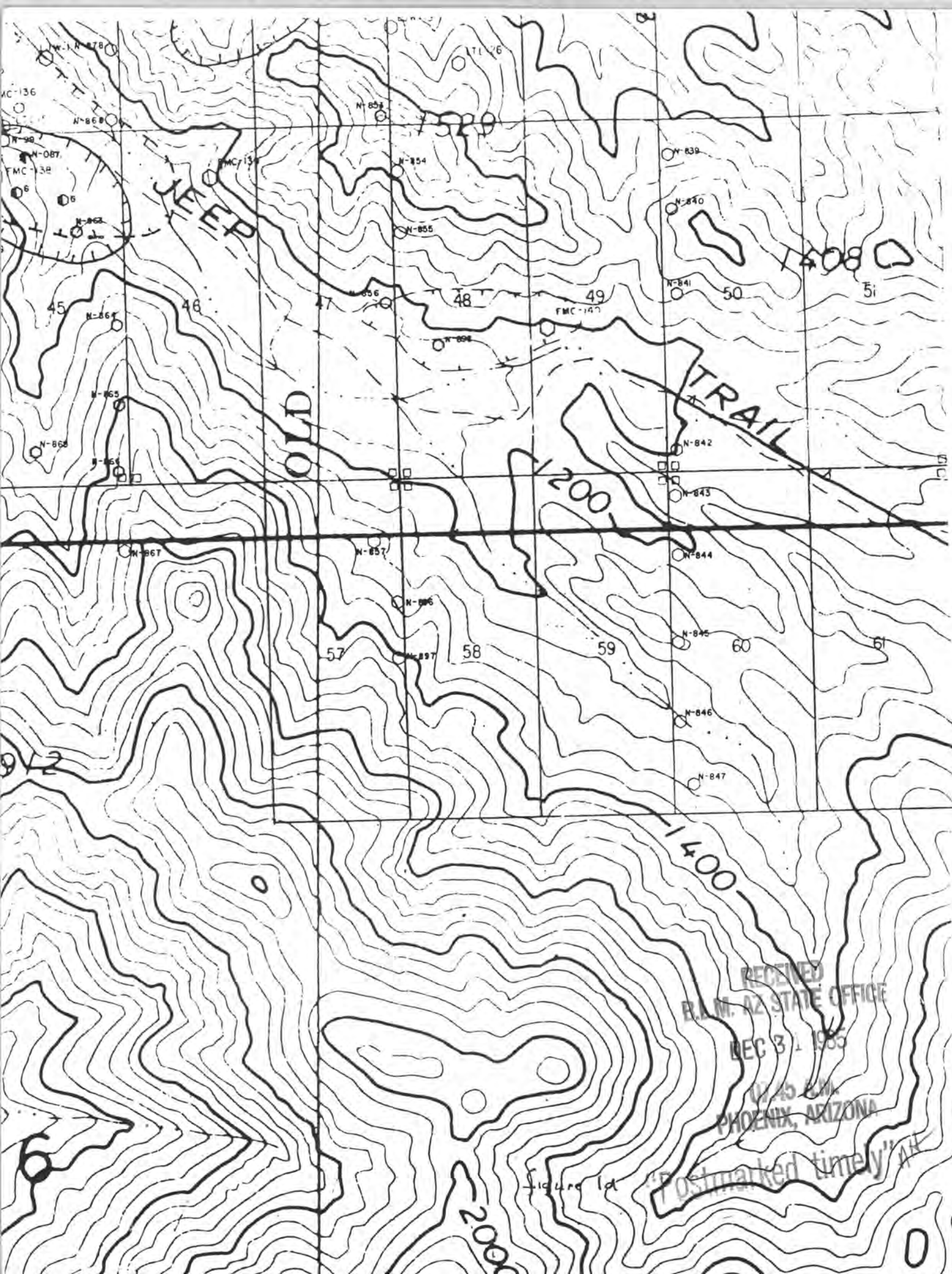


Figure 1c



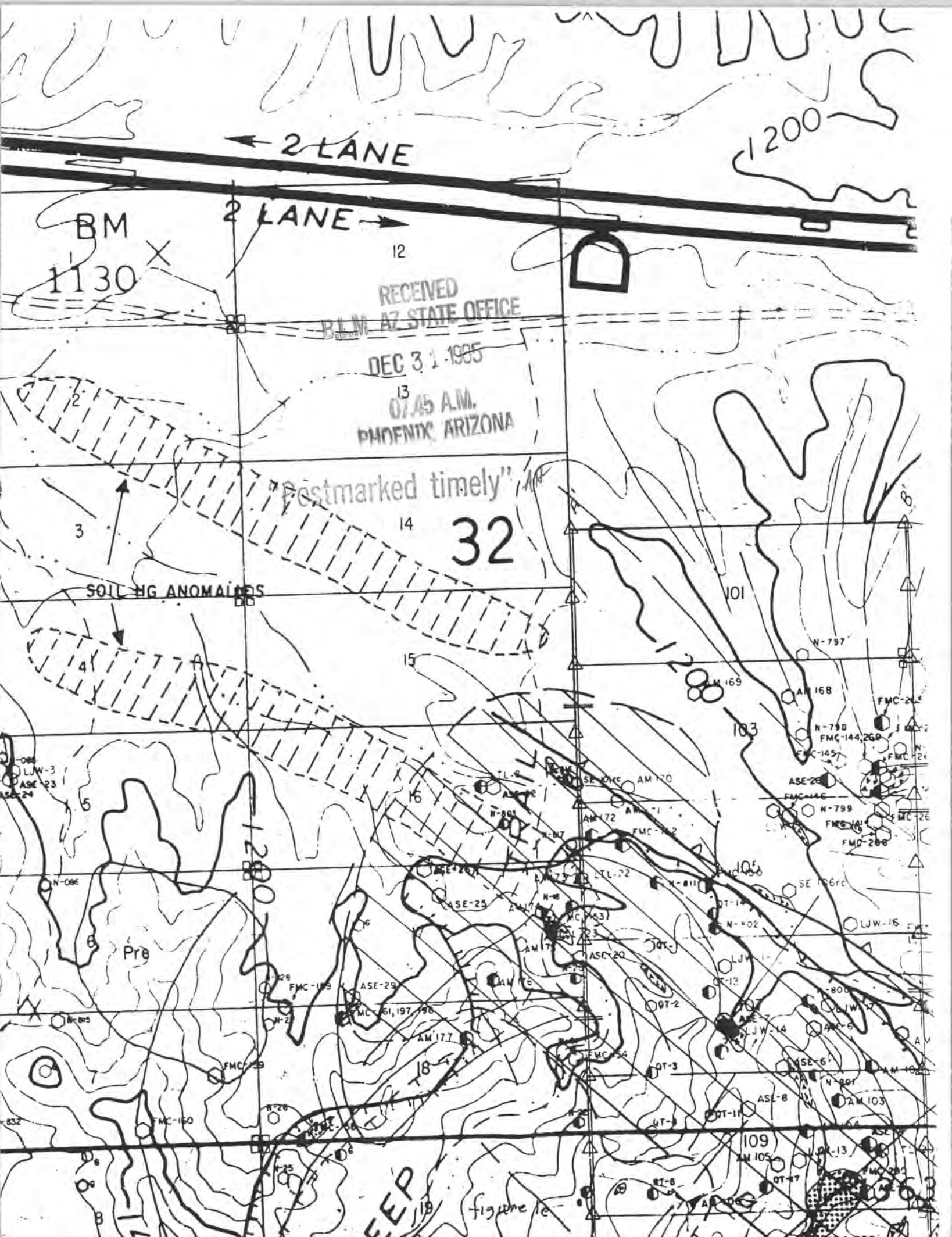


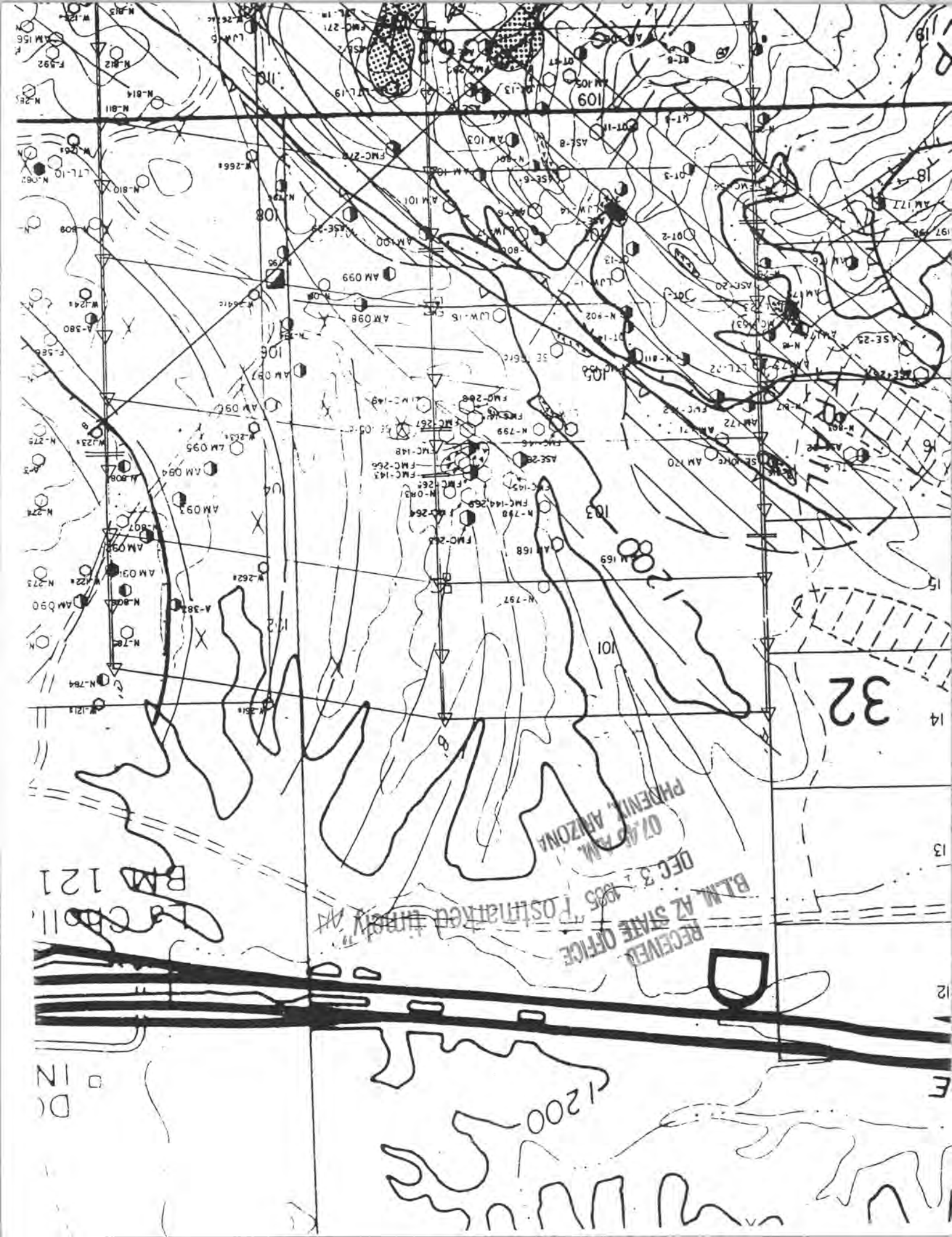
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U.S. BLM
PHOENIX, ARIZONA

Figure 1d

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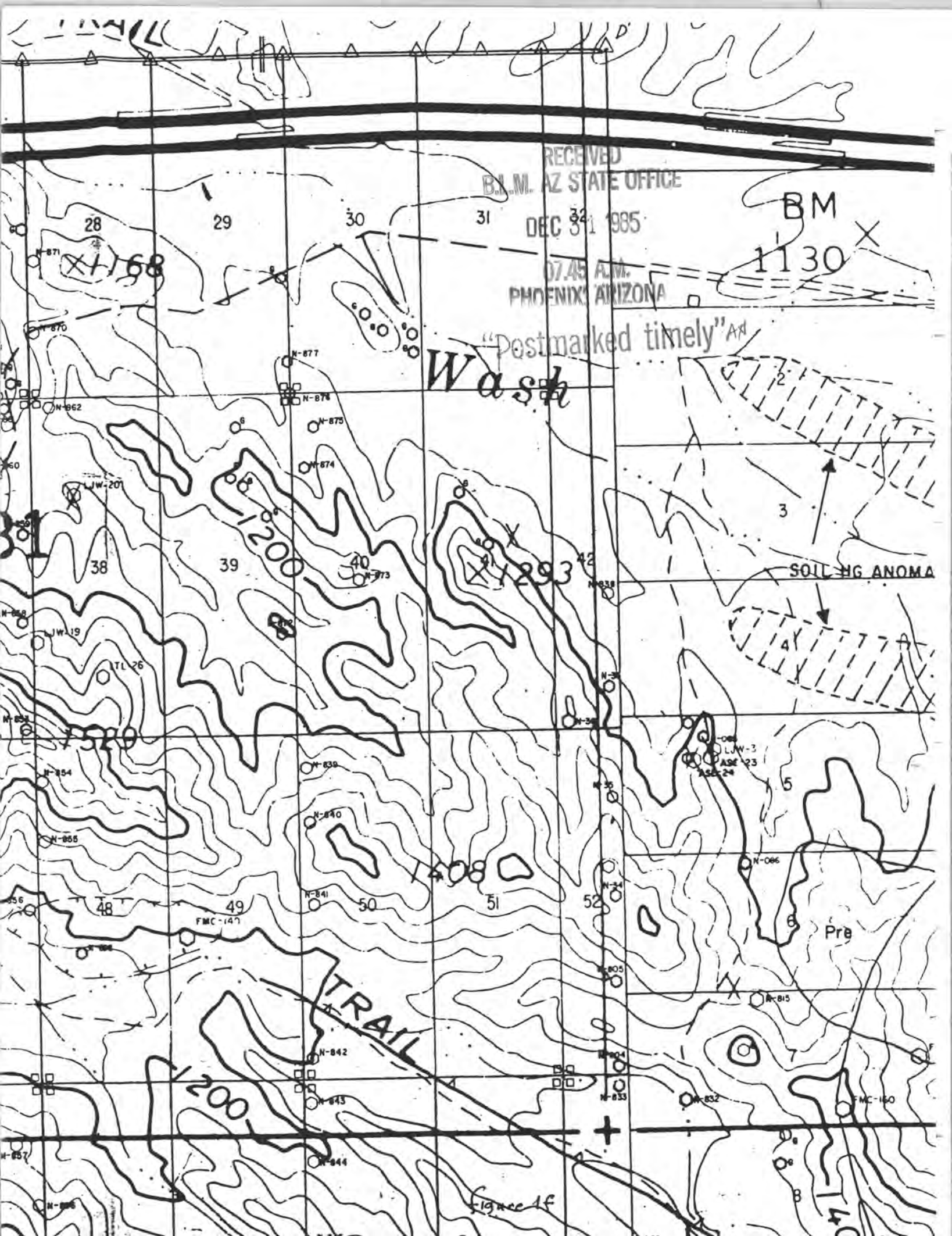
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B.L.M. AZ STATE OFFICE

DEC 31 1985

07:45 A.M.
PHOENIX, ARIZONA

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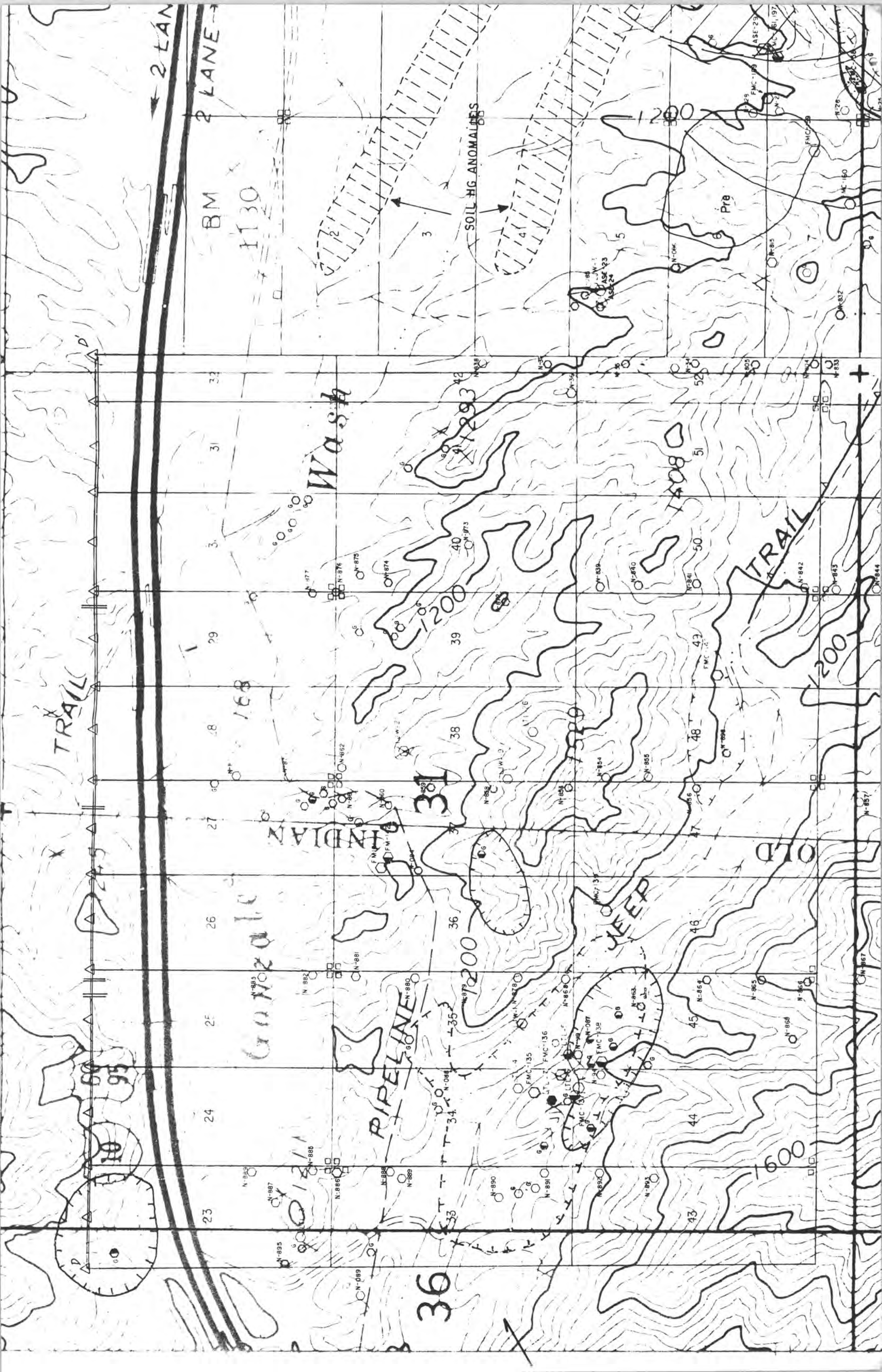
TRAIL

Figure 1f

ATTACHMENT A

Name of Claim	BLM Serial Number AMC No.	Yavapai County Book	Page
Azure Blue	28667	182	457
Copper Ridge	28671	182	458
Lucky Three	28672	183	117
Treasure	28668	183	118
Bonanza	28669	203	243
Copper Moon	28674	204	407
Jump Off	28666	204	408
Payoff	28675	204	409
Red Copper	28673	204	410
Surprise	28670	204	411
D. & D.	28676	208	142
Winner	28677	209	16
Hillside	68587	517	590
Rover Nos. 1-10	68588-68597	449	359-368

BOD. 1776 PAGE 68



PROSPECT Sugar Loaf, Middle Camp or Quartzite District
COUNTY La Paz STATE Arizona

SAMPLE LOG

Rev 3/21/85
R. Corn
SP. CORN

SAMPLE NUMBER	LEGAL	LOCATION		DESCRIPTION	RADIOACTIVE ELEMENTS			PATHFINDER ELEMENTS				BASE METALS					SULFO-SALTS		PRECIOUS METALS	
		GEOGRAPHIC			U ³ O ₈	eu	eth	W	Acid Sol ¹	Total ²	F	Hg	Cu	Mo	Pb	Zn	As	Sb	Au	Ag
4737				Standard Alaskaite.				10				.10	19	<5	113	55	6		<.02	.2
4738	SW/NE Sec. 4, T3N, R20W	W end of lead Hill		Silicified schistose rhyolite.				2				.11	55	<5	146	15	14		<.02	.6
4738-A	NW/SE Sec. 4 T3N, R20W	Val. Drill Hole cent Claim 51.		Cuttings from validation Drill Hole.				12				.27	477	22	.158	540	57		.06	2.6
4738-B	SE/SE Sec. 4 T3N, R20W	Drill Hole.		Cuttings from Drill Hole CH #1.				6				.29	21	10	110	96	24		<.02	1.0
4738-C	"	Cut on vein.		Quartz-limonite vein material in cut.															<.02	
4739	NE/NW Sec. 4 T3N, R20W	Drill Hole WW-4.		Cuttings of pyritic schistose, rhyolite.				11				.14	45	19	456	586	9		.17	1.2
4739-A	"	West end Hill.		Silicified pyritic rhyolite, between holes SL 6 & SL 7.				18				.55	75	45	334	238	5		.17	1.4
4739-B	"	Drill Hole SL-4.		Cuttings of intensely pyritized schistose rhyolite.				11				.10	81	27	336	.128	7		.25	1.2
4740	NW/NE Sec. 4 T3N, R20W	Leadville Mine Area.		Pyritic schist on Dump.				11				.10	16	27	346	504	8		.17	1.0
4740-A	"	"		Siliceous "cap" above adit.				30				.12	33	199	317	66	6		.29	1.2
4740-B	"	"		Lead-bismuth ore on Dump.															.93	
4740-C	"	Drill Hole WW 4.		Select sample of 2-3 foot qtz-limonite vein on N side.															.45	
4741	Cent SE 1/4 2R T4N R20W	Recent Drill Hole.		Cuttings - Granite gneiss epidote & disseminated pyrite.				18				.08	189	7	36	73	8		<.02	.5

1 VALUES IN PPM EXCEPT "TOTAL BARIUM" WHICH IS IN %
2 COPPER STATE ANALYTICAL, TUCSON
3 US BORAX RESEARCH CENTER, ANAHEIM



HEINRICHS GEOEXPLORATION COMPANY

P. O. BOX 5964, TUCSON, ARIZONA 85703, 806 WEST GRANT ROAD, PHONE: (602) 623-0578

March 14, 1984

W. C. Hirt
J. D. Loghry
R. L. Lundin

Re: Sale terms
S. E. Claims & Map.

Dear Partners:

Never did receive Rich's proposed revised terms in writing nor a reproducible sepia or vellum copy of 1" = 500' scale topo base with claims and geochem sample sites shown as open hexagons. Regarding the latter, I do not immediately recall ever seeing the presumed geochem results obtained from this sampling. What's the story on that?

Regarding sale terms, Bill and I reviewed matters in the light of Rich's recent suggestions and I come up with the following revision: I believe Bill and Jim more or less agree with the table part. If Rich has a particular candidate he thinks this is too easy on he can make appropriate revisions but, ideally, a written record should be kept and the other three partners so advised in writing so we don't get crosswise with each other:

Year	Amount	
1	\$6000	in advance for first 6 months
	\$7500	" " " second 6 months.
2	\$18,000	" " " year.
3	\$24,000	" " " third "
4	\$31,500	" " " fourth "
5	\$40,500	" " " fifth "
6 & beyond	\$50,000	" " " sixth " and thereafter.

Purchase price: \$10,000,000 buy out at any time. Royalty, NSR or equivalent, at 4% from Federal land and 2% from State land reduced to 3% and 1% respectively after \$5,000,000 paid out. Term, 10 years - if not in production. If in production term automatically extended so long as production continues. If production after having commenced, ceases for over one year, optionees must renegotiate minimum royalty or give up lease. If above principal figures are reduced in any way, then term will reduce from ten years to five years.

Please edit and/or comment by return mail.

Partners

-2-

March 14, 1984

Enclosed AMOCO correspondence copies are for your records. Incidentally, this includes a copy of recently revised terms prior to Rich's recent suggestions which I have been using since before Gulf and will continue to use until we jointly decide otherwise. It's main inconsistency is relative to the \$5,000,000 and perpetual royalty which is contradictory and/or meaningless as stated.

Cheers,



Walter E. Heinrichs, Jr.

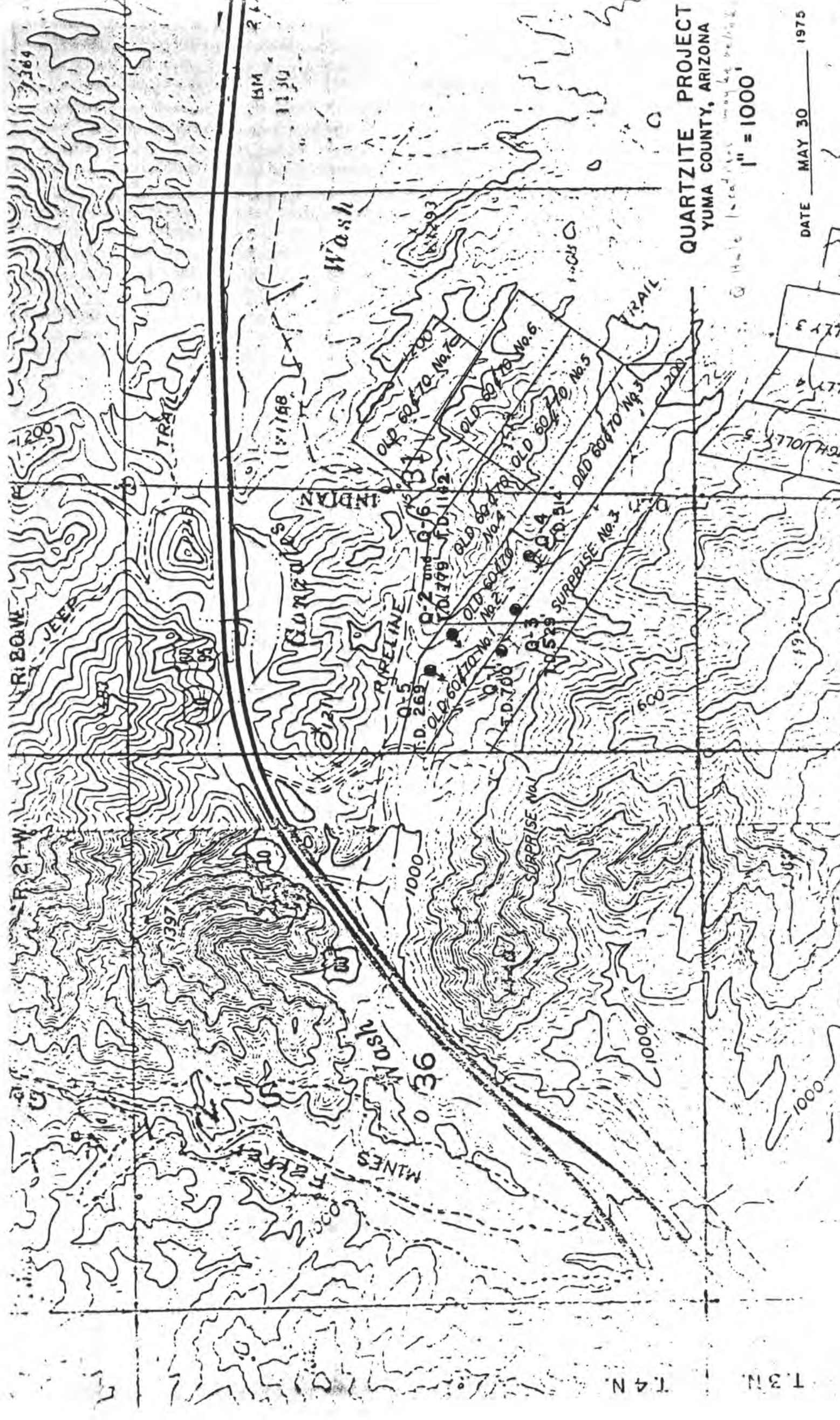
WEH/jh

Enclosures: 3

ATTACHMENT A

Name of Claim	BLM Serial Number AMC No.	La Paz County Book	Page
SE #1-52	105414-105465	1168	643-746
SE #57-62	105466-105471	1168	747-758
SE #101-120	186704-186723	1303	729-770

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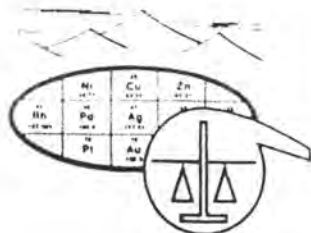


QUARTZITE PROJECT
YUMA COUNTY, ARIZONA

1" = 1000'

DATE MAY 30 1975

T.3N. T.4N.



SKYLINE LABS, INC.
1775 W. Sahuarro Dr. • P.O. Box 50106
Tucson, Arizona 85703
(602) 622-4836

REPORT OF ANALYSIS

JOB NO. TRQ 009A

March 4, 1986

PROJ. NO. NEW DYNASTY SAMPLES

PAGE 1 OF 1

MR. JAMES D. LOGHRY
Attn: Mr. James D. Loghry
2121 East Monte Vista Drive
Tucson, Arizona 85719

Analysis of 3 Pulp Samples

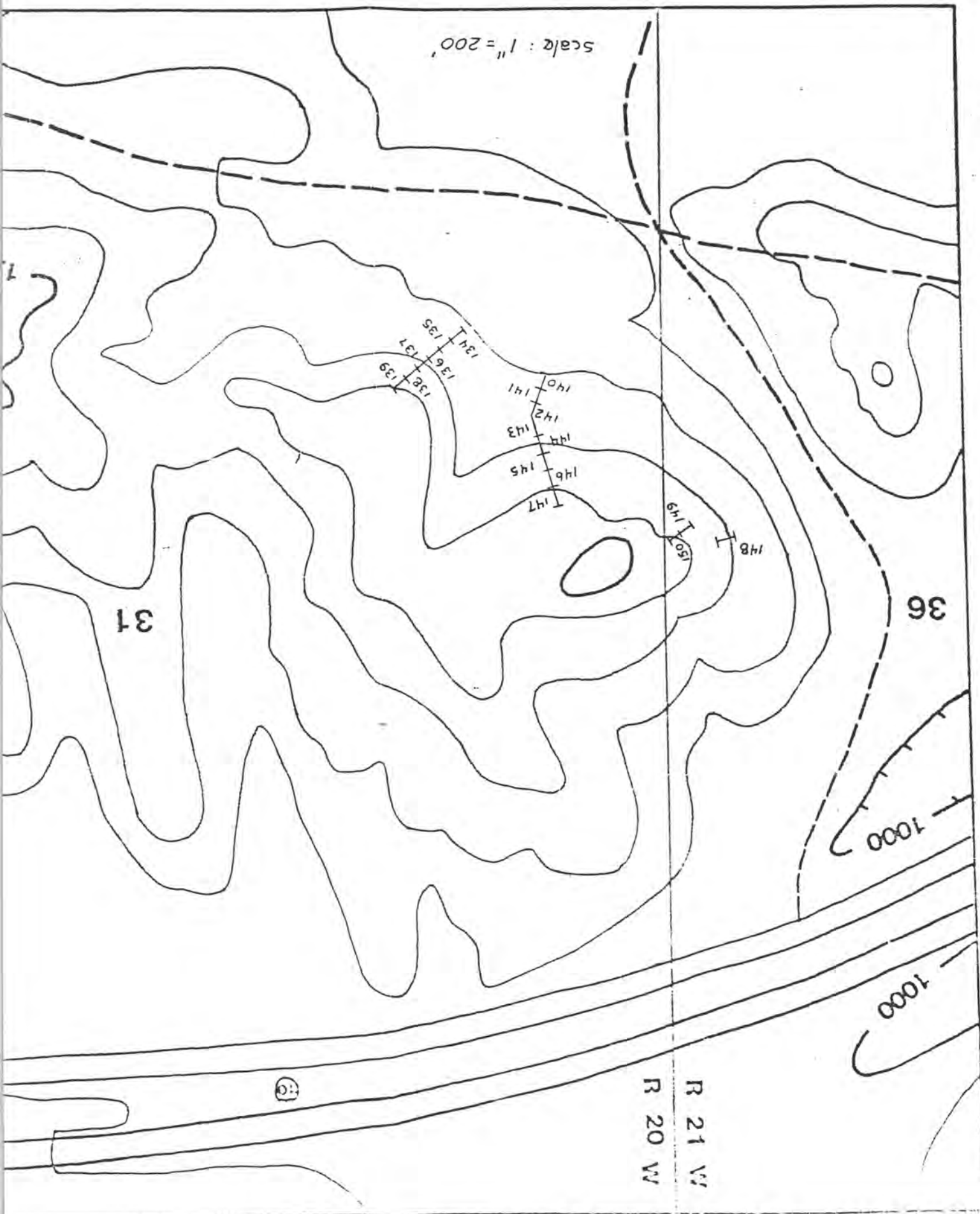
FIRE ASSAY

ITEM SAMPLE NO. Au
(oz/t)

1	H-009	1.110
2	H-010	.030
16	SE-1	.050

cc: NORTHERN DYNASTY EXPLORATION LTD.
Attn: Mr. David Jennings
844 W. Hastings St.
Vancouver, B.C. V6C1C8
CANADA





AFFIDAVIT OF PERFORMANCE OF ANNUAL WORK

State of Arizona)
) ss.
County of La Paz)

I, Richard J. Lundin
of 1919 Thumb Butte Rd.
Prescott, Arizona 86301

RECEIVED
B.L.M. AZ STATE OFFICE
DEC 28 1984
7:45 A.M.
PHOENIX, ARIZONA

being duly sworn according to law deposes and says that he is a citizen of the United States more than eighteen years of age and that all of the facts set forth in this affidavit are true and correct according to the best of his knowledge, information and belief.

That he is personally acquainted with the mining claims named in Attachment A that are situate in the Middle Camp Mining District, La Paz County, Arizona, the location of which are recorded in the office of the County Recorder of that County in various Books and Pages. (see Attachment A) Notices of Location are posted located in Sections 6,7,18, Township 12N, Range 2E, G&SRB&M.

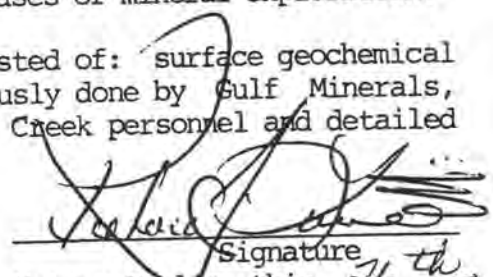
That between the dates of September 1, 1983 and August 31, 1984 at least Eight Thousand Three Hundred (\$8,300,00) dollars worth of work and improvements were made and performed upon this claim not including location work.

The work and improvements were made by and at the expense of Walter E. Heinrichs, James D. Loghry, William C. Hirt and Richard J. Lundin, owners of the property for the purpose of complying with the laws of the United States pertaining to assessments or annual work.

Richard J. Lundin, James D. Loghry, A. Humphreys, Peter Dohms, Rick Knowling, John Pierson, Brad Margeson, David Spatz, and Jon Broderick were the names of the persons employed by the owners who labored to do the work and improvements. All of the above mentioned individuals are senior Geologists or Mining Engineers with many years experience in all phases of mineral exploration.

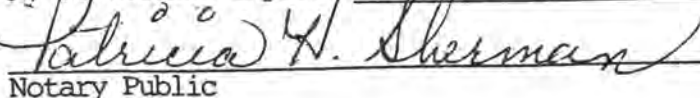
The work and improvements done consisted of: surface geochemical surveys to complement work previously done by Gulf Minerals, Newmont, Texas Gulf Western and Bear Creek personnel and detailed geologic mapping. (See Attachment B)

Dated 12/26/84


Signature

Subscribed to and sworn before me, a Notary Public, this 26th day of December, 1984, by Richard J. Lundin

My Commission expires/ My Commission Expires Dec. 17 1986


Notary Public

June 1982

32

W-43



X

dis. FeO₂ & tr- 3% pyrite
tr. CuO₂

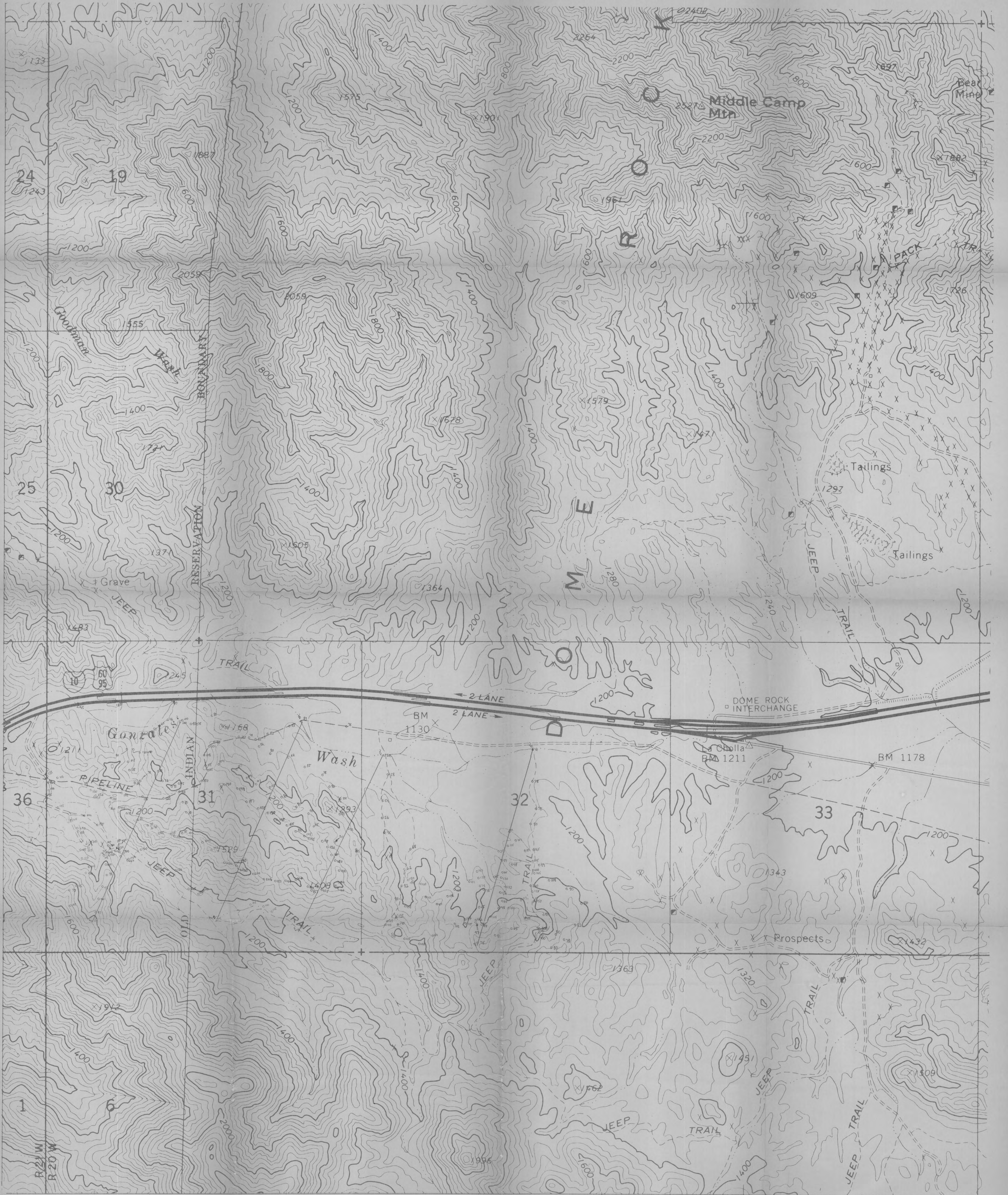
dis. FeO₂ & tr- 3% pyrite
tr. CuO₂

dis. FeO₂ & tr- 3% pyrite
tr. CuO₂

dis. FeO₂ & tr- 3% pyrite
tr. CuO₂

dis. FeO₂ & tr- 3% pyrite
tr. CuO₂

31^X





TELEX: 364412 INTR ID 894
FAX: 602/326-4019

HEINRICHS GEOEXPLORATION COMPANY

P. O. BOX 5964, TUCSON, ARIZONA 85703 806 WEST GRANT ROAD, PHONE: (602) 623-0578

April 9, 1990

Kiewit Mining Group, Inc.
3100 Mill Street, Suite 108
Reno, NV 89502

Attn: Michael Easdon, Consultant

Re: Amy Creek, Alaska and
Mineral Hill, Idaho

Dear Mike:

This is in response to your letter of 9 March 1990.

We hold a minority interest in each of these two properties but not control. Ownership of Amy Creek is held by Jeff Knaebel of Fairbanks, Alaska and it is managed by Carl Hannaman, whose address is P. O. Box 81467, Fairbanks, Alaska 99708. Same is true of Mineral Hill except in that case, control is held by Frontino Corporation, c/o George Scholey, President, 1280 Panorama Drive, Tucson, AZ 85704, phone (602) 575-8435.

We are 25% interest co-owners with three others of a copper, gold, silver property, 82 unpatented SE claims, 7 miles west of Quartzite, La Paz County, Arizona, bordering on I-10 on the south. There is considerable drill data and estimated reserves of 5 - 10 million tons 0.6% acid soluble surface minable, copper, leachable and LIX recoverable.

A thoroughly capable and experienced consulting and contracting group have done a proprietary pre-feasibility study which appears favorable and they seek J/V means to bring the property into production. Participation with this group is not mandatory however, as far as we are concerned. If this is of any interest, let me know and we will send you summary data.

Thanks for contacting us and please keep us apprised of your interests.

Sincerely,
Heinrichs GEOEXploration Co.

Walter E. Heinrichs, Jr., Pres.
Geological Engineer - Geophysicist
P.E. & C.P.G.

WEH/jh

cc: Carl Hannaman
George Scholey



TELEX: 364412 INTR ID 894
FAX: 602/326-4019

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Heinrichs GEOEXploration Co.

Walter E. Heinrichs, Jr., Pres.
Geological Engineer - Geophysicist
P.E. & C.P.G.

WEH/jh

cc: Carl Hannaman
George Scholey

Kiewit Mining Group, Inc.

3100 MILL STREET, SUITE 108 • RENO, NV 89502
Phone: 702-348-6600 – Telefax 348-6602

March 9, 1990

Mr. W.E. Heinrichs Jr., President
Heinrichs Geoexploration & Associates
PO Box 5964
Tucson, AZ 85703

Dear Mr. Heinrichs:

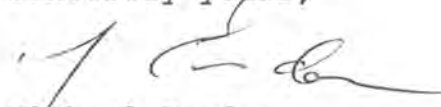
Kiewit Mining Group (KMG) is aggressively scouting for advanced properties in which their mining and construction expertise can be utilized. They are the mining subsidiary of Peter Kiewit & Sons, a major US construction company. KMG has currently completed the construction of the Rawhide Mine, NV in which Kiewit has a 25% interest. This project was completed on time and well within budget.

In reviewing the trade literature, I note that you control the Amy Creek Gold Prospect, Alaska, and the Mineral Hill Mine property in Idaho. KMG are desirous of acquiring properties on which a minimum potential (their share) of 100,000 ounces of open pitable gold can be envisioned. If you believe that either of these properties may have this kind of potential, I would appreciate receiving additional information.

KMG would also be interested in reviewing data on any other project which Heinrichs Exploration is working on, and on which consideration is being given to a joint venture.

Should you have any questions with regard to this query, please contact me at the above address, or directly at 702-826-8500.

Sincerely yours,


Michael Easdon
Consultant to Kiewit Mining Group

cc Mr. Ralph Bennett, Manager
Kiewit Mining Group





TELEX: 364412 INTR ID 894

FAX: 602/3264019

HEINRICH'S GEOEXPLORATION COMPANY

P.O. BOX 5964, TUCSON, ARIZONA 85703. 806 WEST GRANT ROAD. PHONE (602) 623-0578

December 24, 1989

Carole A. O'Brien
A. F. Budge (Mining) Ltd.,
4301 North 75th St., Suite 101
Scottsdale, AZ 85251-3504

Dear Carole:

Just a thank you note for the material accompanying yours of 5 December 1989. The photos were a most pleasant surprise. It was very kind and thoughtful of you to send them. Thank you very much.

Hope you had a great Christmas and all the best for 1990. *1/2 Jean joins me in that.*

Sincerely,

Walter E. Heinrichs, Jr.

Walter E. Heinrichs, Jr.



TELEX: 364412 INTR ID 894

FAX: 602/3264019

HEINRICHS GEOEXPLORATION COMPANY

P.O. BOX 5964, TUCSON, ARIZONA 85703. 806 WEST GRANT ROAD. PHONE: (602) 623-0578

December 24, 1989

Carole A. O'Brien
A. F. Budge (Mining) Ltd.,
4301 North 75th St., Suite 101
Scottsdale, AZ 85251-3504

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me in that.

1/2 Jan joins

Sincerely,

Walter E. Heinrichs, Jr.

Walter E. Heinrichs, Jr.



A.F. Budge (Mining) Limited

December 5, 1989

4301 North 75th Street
Suite 101
Scottsdale, AZ 85251-3504

(602) 945-4630

Walter E. Heinrichs, Jr. FAX (602) 949-1737
Heinrichs Geoexploration Company
P.O. Box 5964
Tucson, AZ 85703

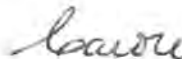
Dear Walt:

So nice to see yourself and Jean. I must try to get down to Tucson more often, especially for AIME Conference. I enjoyed it albeit I wasn't there for it.

Enclosed, as promised, is the original proposal from Bluestone as well as their executive summary. And am also enclosing a set of photos I took when we visited the property back in October. (2nd set I had done; cheap).

Best of the holiday season to you and Jean.

Sincerely,


Carole A. O'Brien

encls.





TELEX: 364412 INTR ID 894
FAX: 602/326-4019

HEINRICH'S GEOEXPLORATION COMPANY

P.O. BOX 5964, TUCSON, ARIZONA 85703, 806 WEST GRANT ROAD, PHONE (602) 623-0578

November 28, 1989

Carole A. O'Brien
A.F. Budge Mining Limited
4301 North 75th St., Suite 101
Scottsdale, AZ 85251

Dear Carole:

I hope things are continuing well at the Korn Cob.

While at Gold '89 in Reno, you may remember our discussing the Blue Stone Group relative to the development of our S/E Claim Group in La Paz County, near Quartzite. At the time, I asked you if it would be appropriate for me to see a copy of your counter proposal to them and you said, you would send me a copy. So far, I have not received anything and wonder if you forgot or if you simply decided not to send it instead? If not the latter, and you are planning to attend the Arizona Conference in Tucson next week-end and Monday, perhaps you could bring it along and give it to me sometime during the meeting. Otherwise, mail would be fine.

Best wishes to Budge, et al for the Season and to yourself personally.

Kindest regards,

Walter E. Heinrichs, Jr.

WEH:jh

BLUESTONE RESOURCES, Inc.

4228 E. Grant Road, No. 3
Tucson, AZ 85712
(602) 795-8380
FAX (602) 795-8389



2 November 1989

Mr. Ronald R. Short, General Manager
A.P. Budge (Mining) Limited
4301 North 75th Street, Suite 101
Scottsdale, AZ 85251-17307

Dear Mr. Short:

Thank you for your FAX of November 1, outlining your counter-proposal for joint venture operation of the Stray Elephant property.

After carefully reviewing your proposal, it would appear that your ideas and ours of an equitable arrangement are so different that the labor of preparing another formal counter-proposal is not justified.

However, the offer isn't closed; if you care to submit another proposal more along the lines of our proposal of October we will be glad to review it.

Thanks for your consideration.

Yours very truly,
Bluestone Resources, Inc.

David B. Hackman, President

November 1, 1989

David B. Hackman
President
Bluestone Resources, Inc.
4228 East Grant Road, #3
Tucson, AZ 85712



Re: Stray Elephant Project near Quartzsite, Arizona

Dear Mr. Hackman:

Thank you for your proposal concerning the referenced project. After reviewing all the available information which your group has provided, we would like to make the following counter-proposal:

Budge would enter into a joint venture agreement with Bluestone Resources for production of copper from the Stray Elephant project, subject to the following:

1. Budge would manage and fund the initial exploration of the Stray Elephant project; after expenditures of \$250,000 Budge would receive a 51% interest in the venture and the property.

2. Following the completion of Phase I, venture partners would contribute to the development of the property, based on their respective interest levels, i.e. 51-49. If one partner is unable or unwilling to fund its share of the development costs, that partner's interest would be reduced proportionately, and according to a generally accepted dilution formula designed for such venture agreements. If a venture partner has been reduced to a funding level of 15%, that interest shall be immediately converted to 10% net profits interest and no further participation will be expected from that partner.

3. Development plans would be developed jointly by both venture partners and acted upon by management committee comprised of representatives from both parties. Final decisions would be made by the partner having the majority interest.

4. The majority partner would recover its initial investment from 100% of the cash flow; during this time, the minority interest party would receive a negotiable, fixed sum annually; after payback, partners would receive their proportionate share, based on contribution level, of the net profits generated from the operation.

D. Hackman
November 1, 1989
Page 2

We feel this would be a more equitable arrangement, based on the investment Budge would be making for the possible development of this property.

If these terms are agreeable to Bluestone Resources, please advise, and we will instruct our legal council to prepare a formal agreement for execution.

Very truly yours,

Ronald R. Short
General Manager

BLUESTONE RESOURCES, Inc.
4228 East Grant Road, #3
Tucson, AZ 85712
Tel 602 795-8380
Fax 602 795-8389



4th 1/4-1989

Ms. Carol O'Brien
A.F. Budge (Mining) Limited
4301 N. 75th Street
Scottsdale, AZ 85251

Dear Carol:

Enclosed is our summary report for the Stray Elephant Project near Quartzsite, AZ.

It is our understanding that should Budge Mining choose to enter into a joint venture agreement with Bluestone Resources for the production of copper from the Stray Elephant Project: (1) policy decisions regarding the operation would be made jointly, (2) Bluestone Resources would operate the property, (3) Budge Mining would recover its investment and interest from 75% of the cash flow, and (4) the remainder of the cash flow would be divided equally between the parties.

If you have any questions or comments please feel free to call.

Yours very truly,
BLUESTONE RESOURCES, Inc.

David B. Hackman, President

STRAY ELEPHANT PROJECT

Executive Summary



The Stray Elephant copper property is located 7-8 miles west of Quartzsite, Arizona and approximately 1/4 mile south of Interstate 10 (Figure 1). There are 78 claims largely in sections 31 and 32, T4N, R20W, and section 4, 5 and 6, T3N, R20W. The claims are in the Middle Camp - Oro Fino mining district in the south Dome Rock Mountains, La Paz County, Arizona (Figure 2).

The property has easy access from Interstate 10 at the Dome Rock Interchange for both east and west travel. There is an additional entrance for east access to Interstate 10 approximately 1/4 mile north of the mineralized area known as "outcrop hill". Electricity is available from a light power line on the northern side of Interstate 10. The closest heavy duty power line is three miles to the west of the property. A water supply will have to be obtained from wells that will be drilled on the eastern portion of the property. There is water available at the Beacon service station and Ryder factory at Tom Wells Road, 4.6 miles to the west of the property.

The property was originally located in 1906 and has had only minor amounts of ore mined for direct shipment to various smelters. An adit and winze were driven in the 1920's into the base of outcrop hill. Outcrop hill is in the northern portion of the claim group and has the most drilling information. The reserves in the outcrop hill zone are estimated to be 3.7 million tons of 0.60% copper (Loghry, 1989). The southern zone has only one drill hole of significance and will need extensive drilling to further define the ore reserves which have the potential to be in the range of 5-6 million tons.

The Stray Elephant copper mineralization is localized in shear zones within a Mesozoic schist intruded by a quartz monzonite pluton. The northwest portion of the 4200 foot long zone of copper mineralization is exposed on outcrop hill. Most of the copper is contained in chrysocolla with minor amounts of cuprite, chalcocite, and chalcopyrite. The southeast portion of the deposit outcrops locally but most of the potential in this area is below leached outcrops or under alluvium.

The exploration program will consist of making a new topographic map at a scale of 1:1200, geologic mapping of the surface, and diamond core drilling. Core drilling will define the copper distribution and structural characteristics of the ore better than rotary drilling. The core will be used for bottle roll and column leach tests.

Bluestone Resources (Table 1) currently has an option from the property owners to explore and develop the Stray Elephant Copper Property. The plan of operations at this time is to finish the drilling program in the outcrop hill area, to develop a mining plan and finalize ore reserves in this area. Outcrop hill has the least amount of preproduction stripping and has several high grade copper oxide zones. Approximately four months of drilling will be necessary to complete the analysis of the northwestern part of the ore body. Permitting will proceed at the same time as the drilling program, as the permitting process is expected to take six to eight months for final approval. Basic engineering will start at the same time as the drilling program and continue directly into the detailed engineering-construction phase.

The production of copper sulfate pentahydrate crystals is currently planned at Stray Elephant. The ore is to be mined at 3000 tons per day, five days per week, using contract mining. The ore is to be leached using strong acid technology followed by solvent extraction-crystallization (Figure 3).

The ore reserves at this time are approximately 3.7 million tons in the northwest portion of the deposit, however, there is an additional potential for 5-6 million more tons undetermined grade in the southeast portion of the deposit. At the fixed mining rate of 15,000 tons of ore per week the known reserves will take 4.74 years to mine. The recoveries from the leaching area are shown in table 2 with an assumed final recovery of 89 to 90% of the total contained copper. This final recovery is after 6-7 rinse cycles of 91 days per rinse cycle (546-637 days) for each 15,000 ton pad. The layout for heap levels one and two are illustrated in Figures 4a and 4b.

The leach area will be actively rinsed 365 days per year and the solvent extraction circuit is designed to operate under the same schedule. Crystallization can be stopped for holidays or other necessary down-time as the system will be designed for batch processing.

The total for land, exploration, and capital cost should not exceed \$2,000,000 (Table 3). All of these funds are expected to be expended in a one-year period, which is anticipated to be required for exploration, permitting and development of the mine and metallurgical plant.

The operating costs are listed in Table 4. These costs are believed to be conservative and it is expected that leaching acid can be obtained without cost. Therefore, total operating costs are expected to be no more than \$0.4517 per pound of contained copper.

Tables 5a and 5b illustrate the cash flow anticipated for the Stray Elephant project. Don Nickerson, one of our associates, can market five tons of copper sulfate (1.25 tons of contained copper) per day at a minimum price of \$1.20 per pound of contained copper, F.O.B. plant site. He believes he can achieve substantial additional market penetration with time. In the meantime the remaining copper sulfate can be sold to the Cyprus Miami smelter for the COMEX price minus \$0.20.

The difference between the two cases illustrated in Tables 5a and 5b is the difference in the COMEX copper price, \$0.85/lb-Cu in Table 5a and \$1.30/lb-Cu in Table 5b. Even at a copper price of \$0.85/lb.-Cu the project has a satisfactory rate of return without further penetration of the copper sulfate market.

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2 of 2



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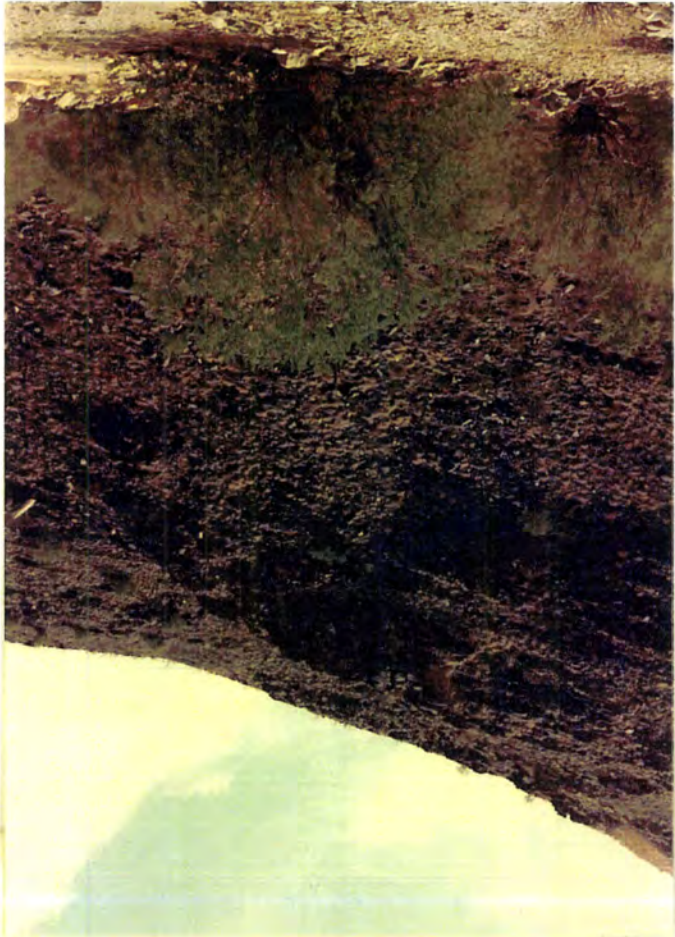


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