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

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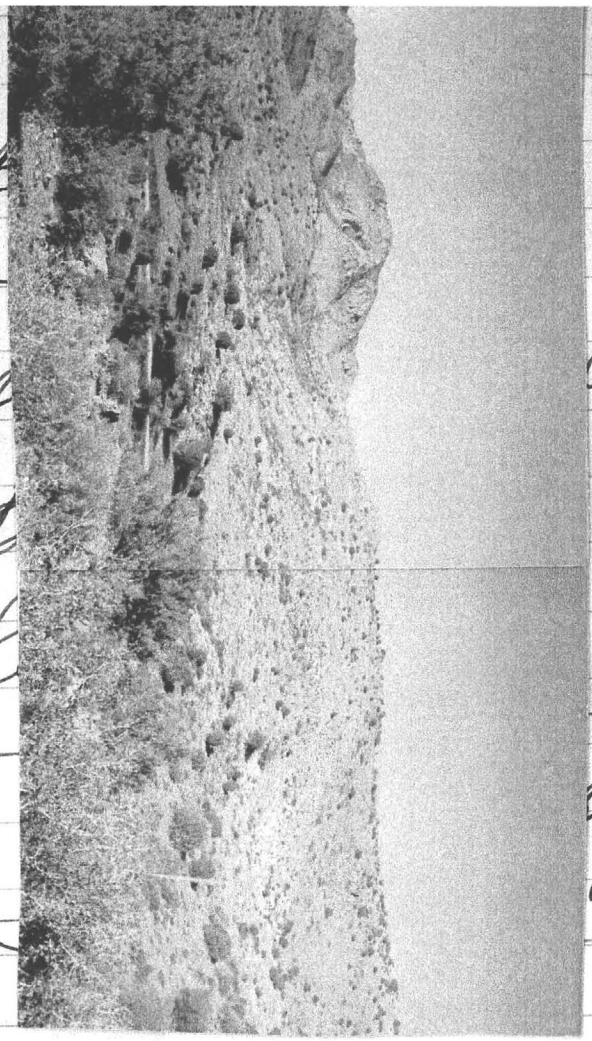
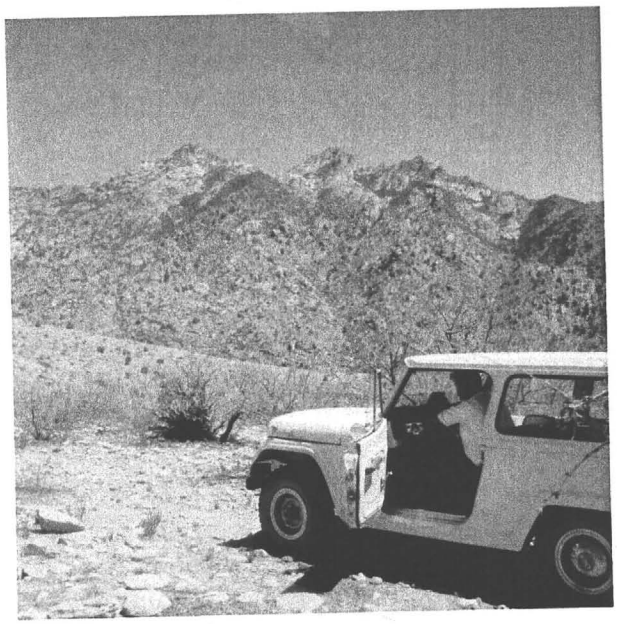
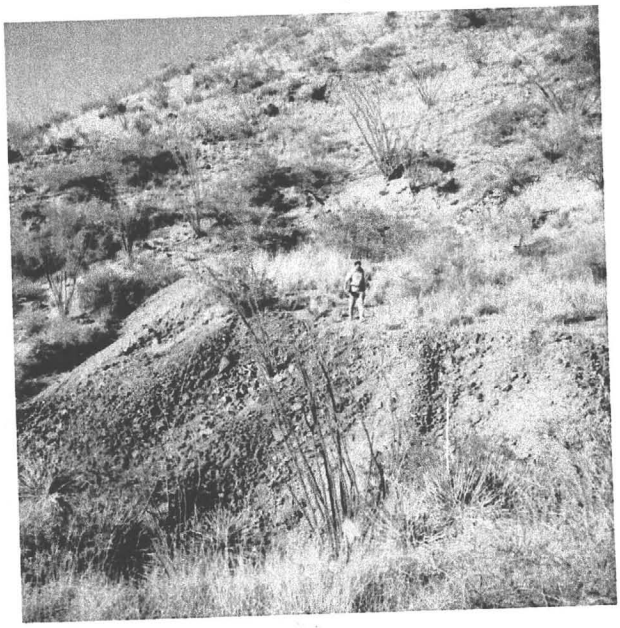
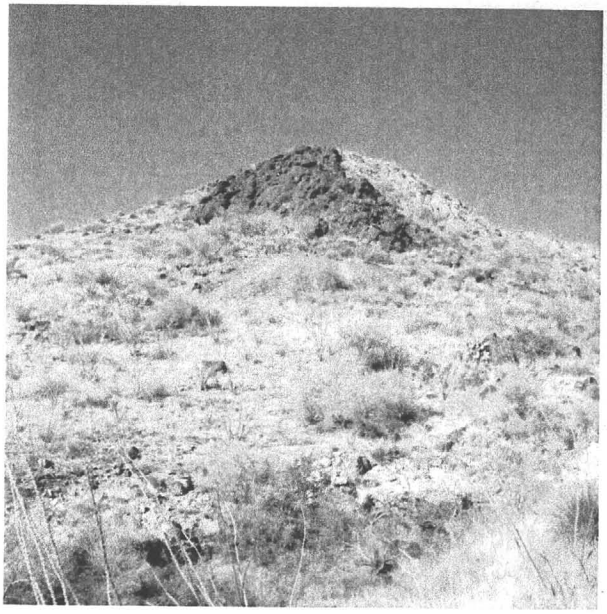
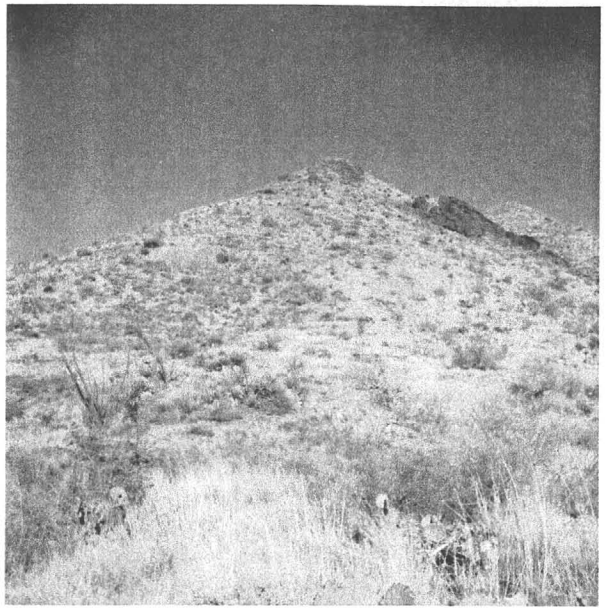
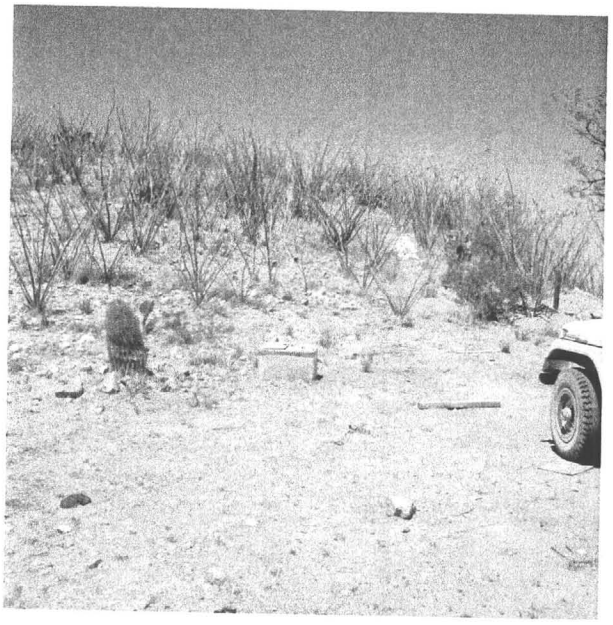


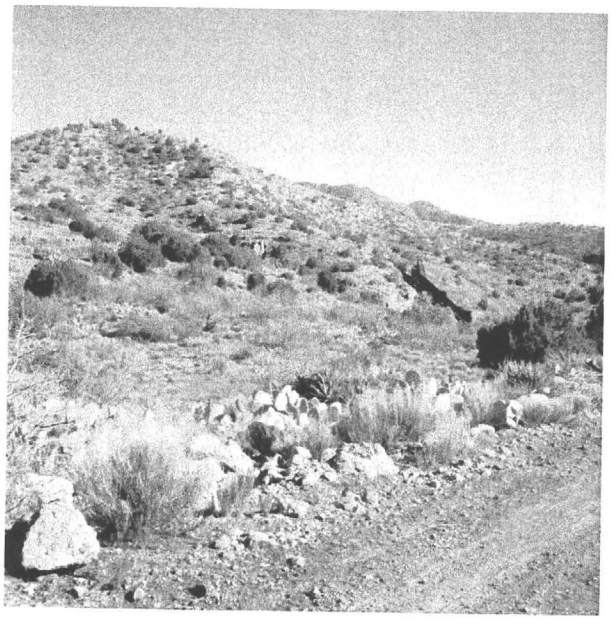


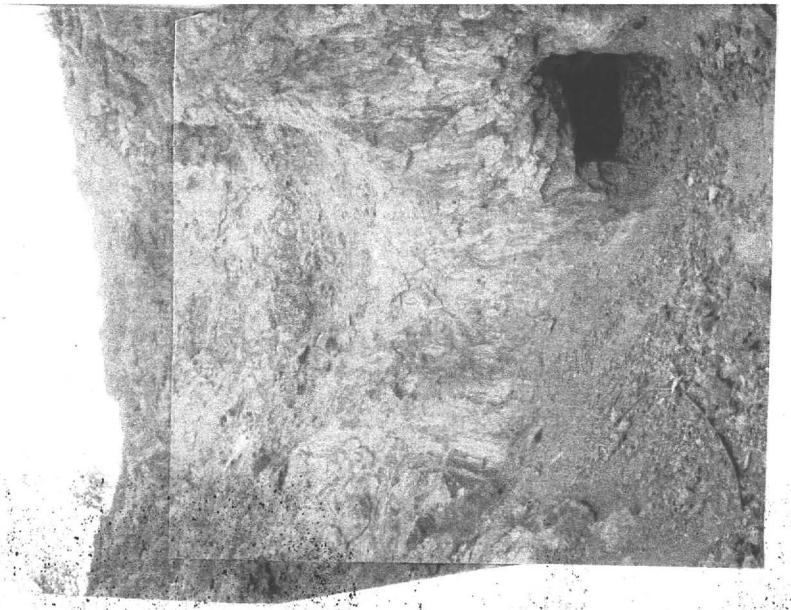


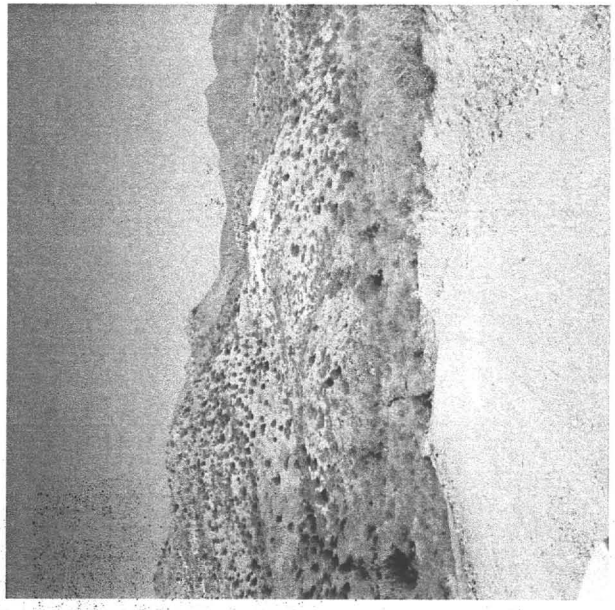


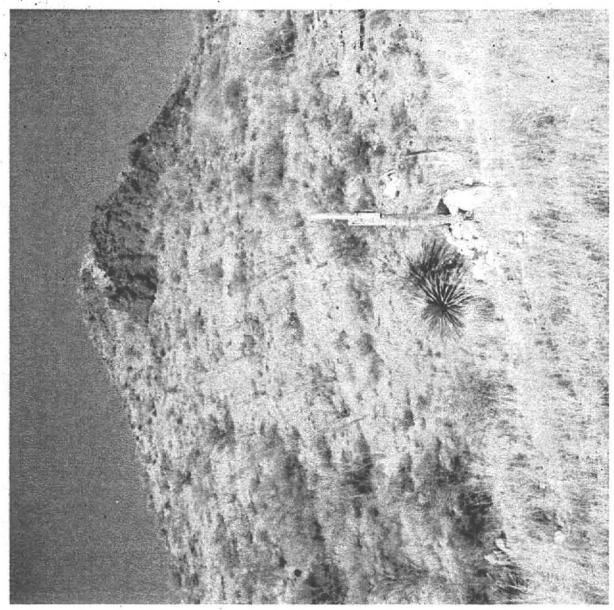


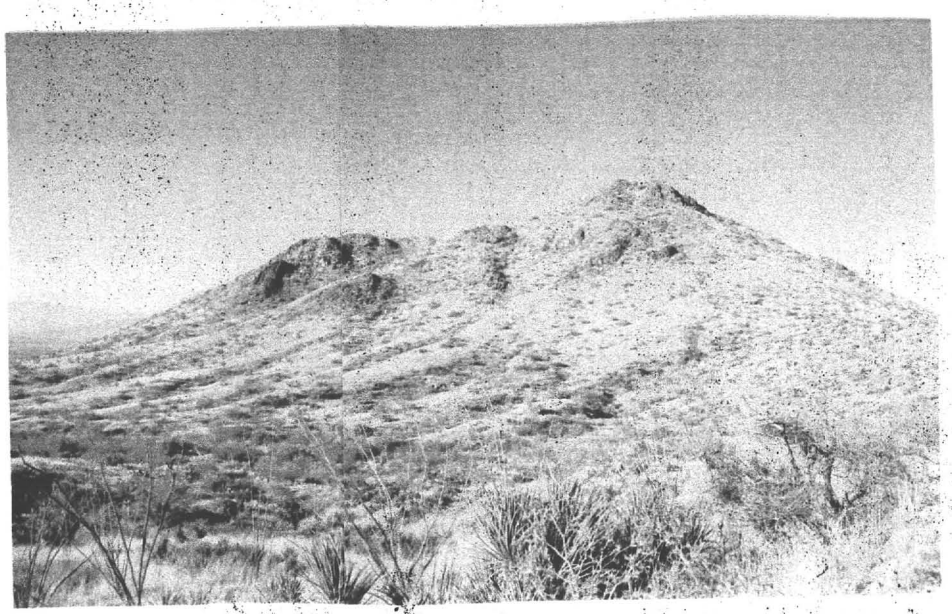




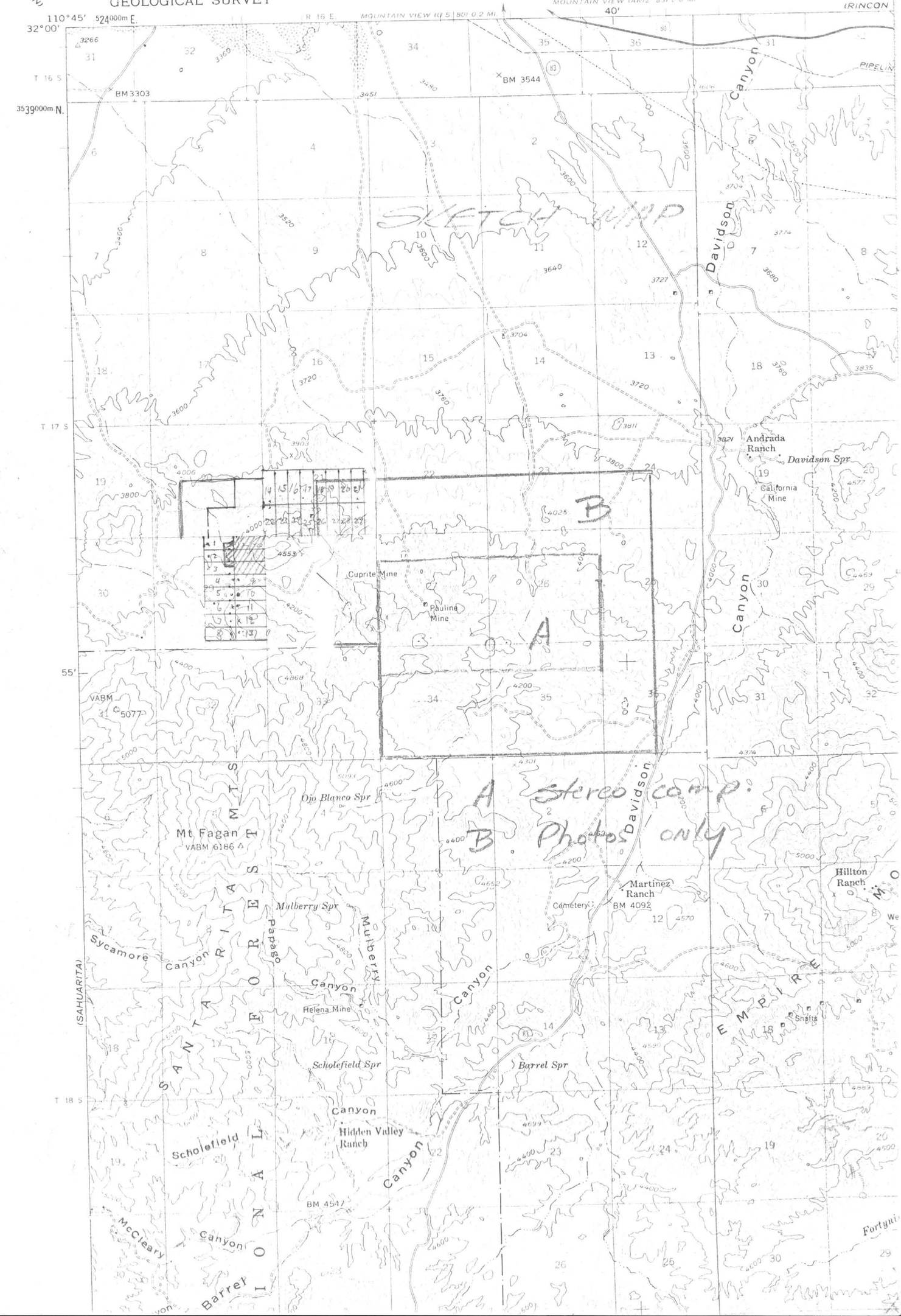








UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



November 20, 1971

Mr. Q. A. Shaw, President
North American Mines Inc.
Room 920
50 Congress Street
Boston, Mass. 02109

Re: GEOEX #437 & #624,
Cuprite, Pima Co., Arizona

Dear Quinny:

We reviewed mercury property data attached with your handwritten note of 12 November 1971. There is sufficient potential interest to warrant contacting Mr. Ross for further details, which we have done as per the enclosed copy of letter from us by Hovey Smith. We will await further information and will let you know our thoughts after it has been received and we have had a chance to look it over further.

There has been no further word from Al Perry regarding his principals following through on the Cuprite Project. We will contact him about this next week and see if there has been any further progress. In connection with the Cuprite State Lease milestones and obligations, the anniversary date for both leases is the second of June. This means that prior to June 1972 an application for renewal of each lease must be filed with the Arizona State Land Dept. in Phoenix, Az. together with an affidavit showing exploration expenditures of not less than $10.00 per acre covered by the permit. Such expenditures have been made for the present period. Therefore, the filing of an affidavit and application for renewal by 2 June 1972 will validate the permit on the two leases for an additional term of one year, or until 2 June 1973. This must be done separately for each permit, however. Since the expenditures have already been made, obviously we recommend that an application and affidavit be filed on both leases regardless of what happens with Perry, Knox, Kaufman, et al.

Trust this answers the question you had on Cuprite.

Cheers,

Walter E. Heinrichs, Jr.

WEH:jh

COPY

November 20, 1971

Mr. Q. A. Shaw, President
North American Mines Inc.
Room 920
50 Congress Street
Boston, Mass. 02109

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Trust this answers the question you had on Cuprite.

Cheers,

Walter E. Heinrichs, Jr.

WEH:jh

COPY

File # 624

5964

October 18, 1971

Mr. Victor H. Verity
Verity & Smith
Attorneys at Law
Suite 902 Transamerica Bldg.
177 N. Church Ave.
Tucson, Az. 85701

Dear Vic:

I am returning, as you requested, the signed Affidavit of Labor and attachments. It all appears in order now and we will look forward to receiving our copy of the recorded data.

Best personal regards,

Sincerely,
Heinrichs GEOEXploration Co.

Paul A. Head, Geophysicist

PAH:jh

Enclosures

October 12, 1971

Mr. Q.A. Shaw, President
North American Mines
50 Congress Street
Room 920
Boston, Massachusetts 02109

Re: GEOEX Job # 624

Dear Mr. Shaw:

Enclosed is a bound set of translucent overlays and one set of blueline copies showing the generalized interpretation and land status of the Cuprite Project. Also included is one set of magnetic profiles, the dipole-dipole induced polarization sectional data sheets, and one set of gradient array I. P. data plots. Multi-element spectrographic assay results of two samples are included which have been held for this final presentation.

Vic Verity has the assessment work affidavits and geophysical report for the Blackstone Claims. These will be filed and copies sent to you and the Waers.

Since the gradient array work was never final drafted except for the Blackstone Claim Area, I have also enclosed a set of the assessment work maps.

Previous letters and preliminary maps were abstracted for the final land status and interpretation maps and should pretty well complete the project. We understand that no formal report is desired at this time. Should the P.K.K. proposal be acted upon, a formal presentation may be desired by them. This can be prepared rather easily whenever requested.

We plan to initiate some specific ground work in the Aravaipa Area this week, probably consisting of picking optimum positions for reconnaissance dipole-dipole induced polarization lines.

Sincerely yours,
Heinrichs GEOEXploration Company

Paul A. Head

Paul A. Head, Geophysicist

Encl:
PAH:dm

October 7, 1971

North American Mines
50 Congress Street
Room 920
Boston, Mass. 02109

Re: GEOEX Job # 624

Attn : Mr. Q.A. Shaw, President

Dear Mr. Shaw:

Enclosed are spectrographic analyses results for the composite samples prepared for the Cuprite Project. Sample 624-1 represents the intrusive rock with visible pyrrhotite mineralization observed by you and Walt. Sample 624-2 is a composite of samples taken from workings in the contact mineralization zones.

There are no high assays of immediate economic significance in either sample. The high copper in 624-2 was expected as was the somewhat high nickel in 624-1. The cobalt assay in 624-1 is the only unexpected anomalous value but very likely does not merit specific follow-up at this time.

Sincerely yours,
Heinrichs GEOEXploration Co.

Paul A. Head

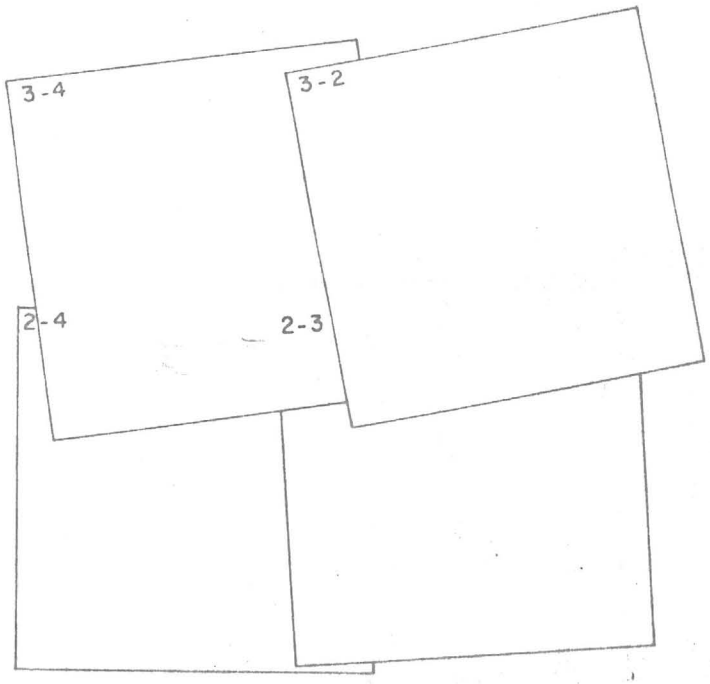
Paul A. Head
Geophysicist

Enclosures
PAH:dm

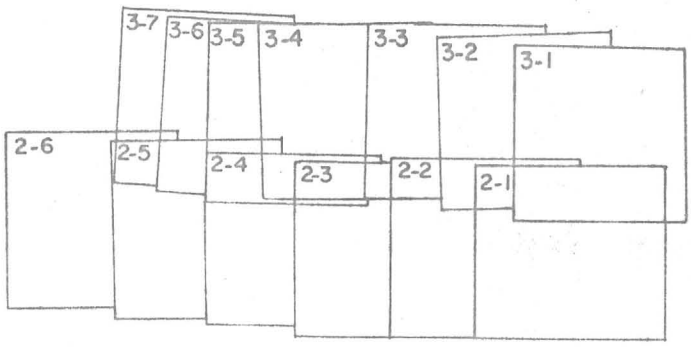
PHOTO INDEX DIAGRAM

for

CORDERO MINING COMPANY



18 1/2" x 18 1/2" PHOTOS
DATED OCT. 20 & 23, 1967
SCALE: 1" = 520' APPROX.



9" x 9" PHOTOS
DATED OCT. 20, 1967
SCALE: 1" = 1130' APPROX.

FILE COPY
photo reference per Job 624

PAULINE MINE AREA
PIMA COUNTY, ARIZONA

HEINRICHS
GEOEXPLORATION COMPANY
geophysical engineers
POST OFFICE BOX 6671, TUCSON, ARIZONA, 85703
Phone: 602/623-0578
Cable: GEOEX, Tucson
vancouver
sydney

AIR MAIL

SPEED LETTER

TO Quinney Shaw

North American Mines
50 Congress Street
room 920
Boston, Massachusetts 02109

FROM Lu Ann Geodex

P.O. Box 5964

Tucson, Arizona 85703

SUBJECT

MESSAGE

DATE 11/8 — 19 71

P.S. Jean and I enjoyed the eve. with you and the Vertys.

Dear Quinney: Your E&M.J. Aug 1970 clipping on Mercury arrived. Meanwhile, I had found our copy of the referred publication and unfortunately, it does not specifically mention any particular property by name and location in detail. Al Perry called about Cupola and said their Olgeby Vorton man "seems interested", but they would want "one month to check out the the quality and availability before they decide" etc. Meanwhile he has to leave town. I'll check back in about 10 days. We will mark time till we hear further — Best.

SIGNED

REPLY

DATE 19

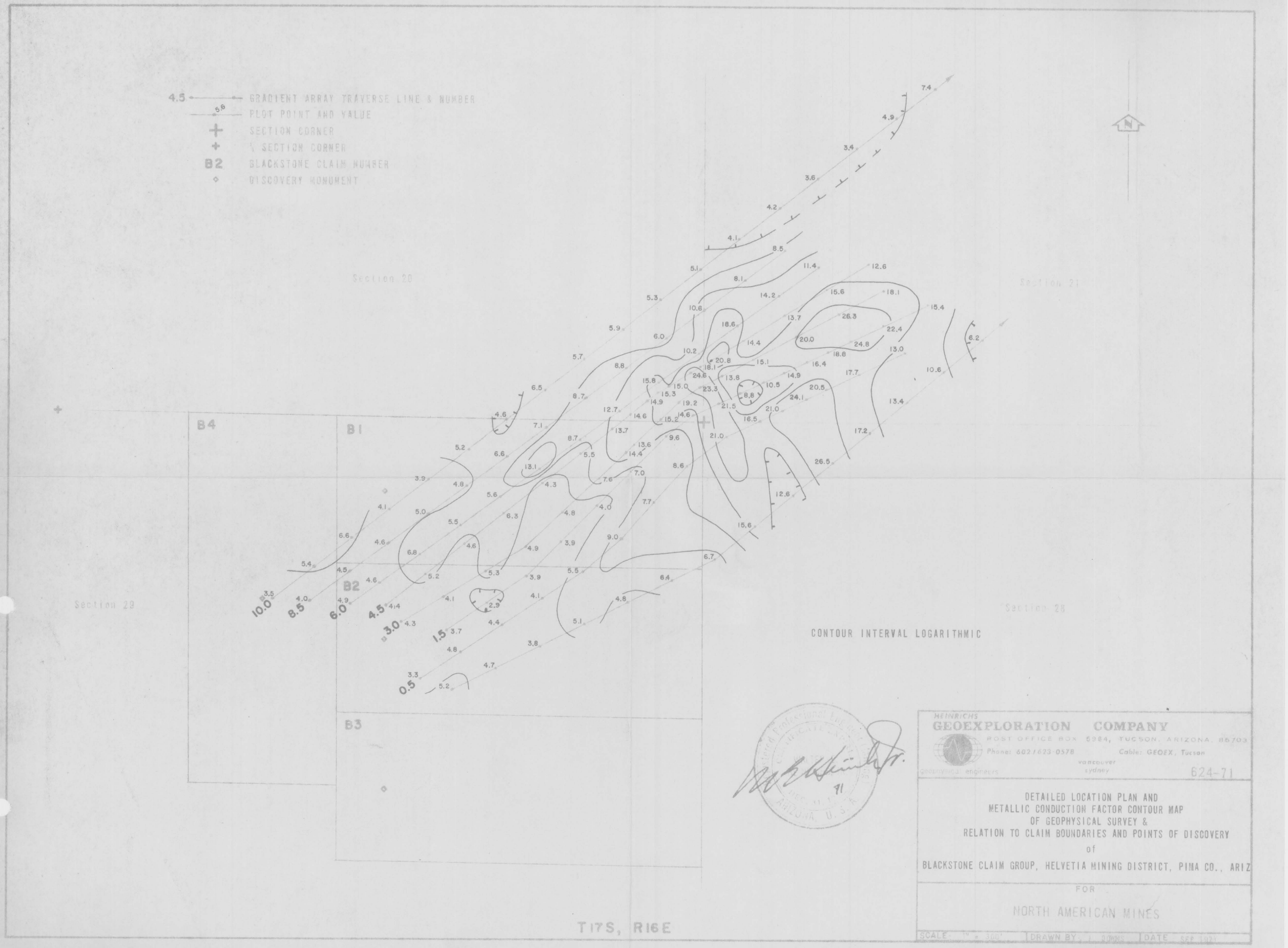
NO. 8 FOLD

NO. 10 FOLD

SIGNED

Gummed SHAP-A-WAY FORM 44/102 3 PARTS
WILSON JONES COMPANY © 1961 PRINTED IN U.S.A. 870

SHAP-A-WAY AND RETAIN THIS COPY. SEND WHITE AND PINK COPIES WITH QUESTION BELOW


4.5 GRADIENT ARRAY TRAVERSE LINE & NUMBER
5.6 PLOT POINT AND VALUE
SECTION CORNER
¼ SECTION CORNER
B2 BLACKSTONE CLAIM NUMBER
DISCOVERY MONUMENT
Section 20
Section 21
Section 29
Section 28
B4
B1
B2
B3
CONTOUR INTERVAL LOGARITHMIC
T17S, R16E
HEINRICHS
GEOEXPLORATION COMPANY
POST OFFICE BOX 5984, TUCSON, ARIZONA 85703
Phone: 602/623-0578
Cable: GEOEX, Tucson
vancouver
sydney
geophysical engineers
624-71
DETAILED LOCATION PLAN AND
METALLIC CONDUCTION FACTOR CONTOUR MAP
OF GEOPHYSICAL SURVEY &
RELATION TO CLAIM BOUNDARIES AND POINTS OF DISCOVERY
of
BLACKSTONE CLAIM GROUP, HELVETIA MINING DISTRICT, PIMA CO., ARIZ
FOR
NORTH AMERICAN MINES
SCALE: 1" = 300'
DRAWN BY: J. DOWNS
DATE: SEP 1971

CONTOUR INTERVAL LOGARITHMIC

T17S, R16E

HEINRICHS
GEOEXPLORATION COMPANY
POST OFFICE BOX 5964, TUCSON, ARIZONA, 85703
Phone: 602/623-0578 Cable: GEOEX, Tucson
geophysical engineers vancouver sydney

624-71

DETAILED LOCATION PLAN AND
APPARENT RESISTIVITY CONTOUR MAP
OF GEOPHYSICAL SURVEY AND
RELATION TO CLAIM BOUNDARIES & POINTS OF DISCOVERY
of
BLACKSTONE CLAIM GROUP
HELVETIA MINING DISTRICT, PIMA COUNTY, ARIZONA
FOR
NORTH AMERICAN MINES

SCALE 1" = 300' | DRAWN BY: L. DOWNS | DATE SEP. 1971

Heinrichs Geoexploration Co.
802 West Grant Road
P.O. Box 5671 ■ Ph. (602) 623-0578
Tucson, Arizona 85703

Date 8/19/71

Description:

Cuprite Mine Area
N.A.M.
Grab of Diorite? Dike-like mass
with pyrrhotite
For Spectrographic analysis
47 elements

Cu Zn Pb Ag Au Mo Other

No. 624-1

Heinrichs Geoexploration Co.
802 West Grant Road
P.O. Box 5671 ■ Ph. (602) 623-0578
Tucson, Arizona 85703

Date 8/19/71

Description:

Misc. grabs from contact zones
at Cuprite Area, N.A.M.
evident Cu

For spectrographic analysis
47 element

Cu Zn Pb Ag Au Mo Other

No. 624-2

Job 624

HAWLEY & HAWLEY

ASSAYERS AND CHEMISTS, INC.
BOX 50106 1700 W. GRANT RD.,
TUCSON, ARIZONA 85703 (602) 622-4836

Registered Assayers
OVER 50 YEARS

BRANCHES
Douglas
Hayden
Morenci
Inspiration
El Paso
St. Louis

Report of semiquantitative spectrographic analysis

IDENTIFICATION	Gold OPT	Silver OPT	Lead %	Copper %	Zinc %	Mo. %
Sample No.:	624-1			624-2		
Si-	17. %			15. %		
Fe-	3.6			16.		
Al-	5.4			1.5		
Ca-	15.			9.3		
Mg-	4.4			1.3		
Na-	1.6			nil		
Ti-	0.75			0.034		
Mn-	0.11			1.4		
Be-	ND < 0.0003					
B-	ND < 0.002					
Pb-	TR < 0.01			0.062		
Ga-	0.0026		TR	0.003		
W-	ND < 0.05					
Cu-	0.0082			1.1		
Cr-	0.0075			0.0043		
Ni-	0.0033		TR	< 0.0009		
Bi-	ND < 0.001			0.031		
V-	0.018		ND	< 0.002		
Cd-	ND < 0.006					
Ag-	ND < 0.001			0.0017		
Zn-	ND < 0.03			0.17		
Zr-	0.0082		ND	< 0.003		
Co-	0.0052		ND	< 0.001		
K-	TR < 0.20		ND	< 0.20		
Sr-	0.013		ND	< 0.0003		

For both samples: (cont'd)

Sb-	ND < 0.008	Mo-	ND < 0.002
As-	" " 0.05	Pt-	" " 0.002
Ba-	" " 0.10	P-	" " 0.50
Cs-	" " 0.20	Re-	" " 0.005
Cb-	" " 0.02	Ru-	" " 0.01
Ge-	" " 0.003	Rb-	" " 0.20
Au-	" " 0.001	Ta-	" " 0.05
Hf-	" " 0.05	Te-	" " 0.04
In-	" " 0.007	Tl-	" " 0.10
Li-	" " 0.02	Sn-	" " 0.003
Hg-	" " 0.09	Rare Earths	Nil

HEINRICHS GEOEX
Cable: GEOEX
RECD SEP 4 1971
BOX 5964 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0578

CC: Heinrichs Teoexploration Company
ADD: Box 5964
CITY: Tucson, Arizona 85703
ADD:
CITY:

REMARKS:

P.O. #002844

Analysis Cert. By H. E. Richard
Date Signed
REGISTERED ASSAYER CERTIFICATE NO. 6784 Arizona U. S. A.

Preparation $ 1.80
Analysis $ 40.00

ACC:	Date Spl. Received	Date Compl.		$
HEINRICHS GEOEXPLORATION CO.	8/20/71	9/2/71	TUC 345568	41.80

HH3

4.5 GRADIENT ARRAY TRAVERSE LINE & NUMBER

1.8 PLOT POINT AND VALUE

SECTION CORNER

¼ SECTION CORNER

B2 BLACKSTONE CLAIM NUMBER

DISCOVERY MONUMENT

CONTOUR INTERVAL LINEAR

T17S, R16E

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GEOEXPLORATION COMPANY
POST OFFICE BOX 5964, TUCSON, ARIZONA, 85703
Phone: 602/623-0578 Cable: GEOEX, Tucson
geophysical engineers vancouver sydney

624-71

DETAILED LOCATION PLAN AND
PERCENT FREQUENCY EFFECT CONTOUR MAP
OF GEOPHYSICAL SURVEY AND
RELATION TO CLAIM BOUNDARIES AND POINTS OF DISCOVERY
of
BLACKSTONE CLAIM GROUP
HELVETIA MINING DISTRICT, PIMA COUNTY, ARIZONA

FOR

NORTH AMERICAN MINES

SCALE 1" = 300' | DRAWN BY: J. DOWNS | DATE SEP 1971

September 14, 1971

Mr. Quincy A. Shaw, President
NOrth American Mines, Inc
50 Congress Street
Boston, Mass. 02109

Re: Cuprite Project
GEOEX Job # 624

Dear Quinny:

Enclosed for your information and comment is a letter recently received from the respectable and respected exploration firm of Perry, Knox, Kaufman, Inc., signed by their president Al Perry. This apparently resulted from our inquiry to Cyprus Mines Corporation regarding the results of their previous exploration program in the district several years ago. You may recall that our inquiry to them resulted in information that they had recently loaned their data to someone else and that it was therefore temporarily unavailable to us. My response in this instance was to thank them and suggest that if it was in order that they might wish to mention to the other party that we had expressed an interest. This apparently was done and it turns out that Dick Thomssen, a local consulting geologist, was personally interested in the area and had asked to borrow the data from Cyprus and then referred the matter to Perry, Knox, Kaufman, Inc. This apparently happened about the same time that we applied for the Arizona State Leases and, as a result, until our inquiry to Cyprus, they decided to play a waiting game to see what happened.

Inasmuchas Cuprite is almost a dead issue, we will be interested in your reaction. Off hand, it would appear that they conceivably could have some new ideas of merit. However, it is not assured that their principals or clients would necessarily back the proposed joint venture. They did not reveal who their principals were nor did we reveal North American Mines interests. Tentatively, I did not object to furnishing them a property sketch showing the mineral rights ownership as we know it, however, I have not done so as yet, and will await hearing from you before I do. I did intimate that the North American Mines expenditure up to this point was roughly $25,000.

We have had a little difficulty getting personnel scheduled to pick up the thread again at Aravaipa project. However, Chris Ludwig is

endeavoring to do this as soon as possible and will let you know his reaction as soon as he has returned from one or two days examination trip.

Faithfully,

Walter E. Heinrichs, Jr.

WEH:jh

September 14, 1971

Mr. A. J. Perry
Perry, Knox, Kaufman, Inc.
P. O. Box 12754
Tucson, Arizona 85711

Re: Cuprite Project

Dear Al:

Receipt is acknowledged of your communication dated 7 September 1971 and the proposals contained therein.

Copies of this material has been forwarded to our client and we will let you know our reaction as soon as one is formulated.

Very truly yours,
Heinrichs GEOEXploration Co.

Walter E. Heinrichs, Jr.
President & General Manager

WEH:jh

bcc: Q. A. Shaw

Pro & Con comment p/2.—: 9/10/71

RH, —

my pargraph c. Proposal I
Shaw would still hold State Lease as final interest
in any of these proposals

Proposal II
I would think that 5% of Net (or smaller return?) (profit) split between
GEOEX and PKK would be in the best interest of
Shaw and GEOEX.

Should have some prearranged agreement for disposition
and sharing of any new Land aquired - perhaps the 10% non
participating reduction would be ok but should be spelled out.

what happens to information of Holt-Kirkwood in the advent
of Proposal #I being implemented.

Complete Validation approx 16 claims (10 & 6) = $2000.00

OFFICES:

TUCSON, ARIZONA (BUSINESS)
2343 E. BROADWAY, SUITE 206
P. O. BOX 12754, ZIP 85711
TELEPHONE (602) 622-0582

SPOKANE, WASHINGTON
7202 SPRAGUE AVENUE — SUITE B
P. O. BOX 13296, ZIP 99213
TELEPHONE (509) WA4-0878

PERRY, KNOX, KAUFMAN, INC.

MINERAL EXPLORATION AND DEVELOPMENT

Tucson, Arizona
September 7, 1971

HEINRICHS GEOEX
Cable: GEOEX
REC'D SEP 10 1971
BOX 5964 TUCSON, ARIZONA
Phone: (AREA 602) 623-0578

Mr. Walter E. Heinrichs Jr.
President
Heinrichs Geoexploration Co.
P.O. Box 5671
Tucson, Arizona 85703

RE: Cuprite Project

Since our meeting with you last Saturday Dick Thomssen and myself have conferred and we forward the following proposals for the consideration of Heinrichs and Client, acceptance of which proposals (or some amended proposals) would make available to Heinrichs and Client information including drill cores pertaining to the Cuprite Project, which information is in the possession of Thomssen and P-K-K.

PROPOSAL I

This proposal would go into effect should PKK bring in a third party for participation with Heinrichs' client in further exploration at Cuprite -- with PKK-Thomssen sharing with such third party.

a. Third party would agree to perform work in an amount equal to $1\frac{1}{2}$ times that expended to date by Heinrichs' client on said Project-- such performance by third party to be in the amount $37,500. Such work would earn third party a 51% participating interest in Project lands and interests.

b. Once such interest had been earned by third party the participating interests would be respectively 51% third party- 49% client, with the interest of either party participating further without the assistance of the other party being increased 10% for each further expenditure of $25,000. made by the single continuing party.

c. If non-participant did not take up his right to participate before he had been diluted to 0% interest-- he would have no continuing interest whatsoever-- no override or minimum reduction.

PROPOSAL II

Proposal II would be in effect if PKK did not bring forth a third party as a co-participant with Heinrichs and Client.

a. PKK-Thomssen would supply the information in their possession (tabulation attached) and make available their exploration ideas with respect to Project Area, after reviewing information currently the property of Heinrichs and Client, and supply such geologic and other services as Heinrichs and Client might request (at PKK's normal project work rate), and otherwise assist as Heinrichs and Client might request. For such information and services, if requested, PKK and Thomssen thru PKK would receive 3% of the net profits resulting from the sale, option, lease, exploitation, etc. of the Project, if such resulted from Project exploration, after Client had recouped their initial investment in the property.

These are suggested terms and certainly subject to negotiation and amendment. We would be pleased to hear from you further once you have had an opportunity to consult with your Client.

A. J. Perry
PERRY,KNOX,KAUFMAN,INC.

AP/pa

copy: Dick Thomssen

attachment

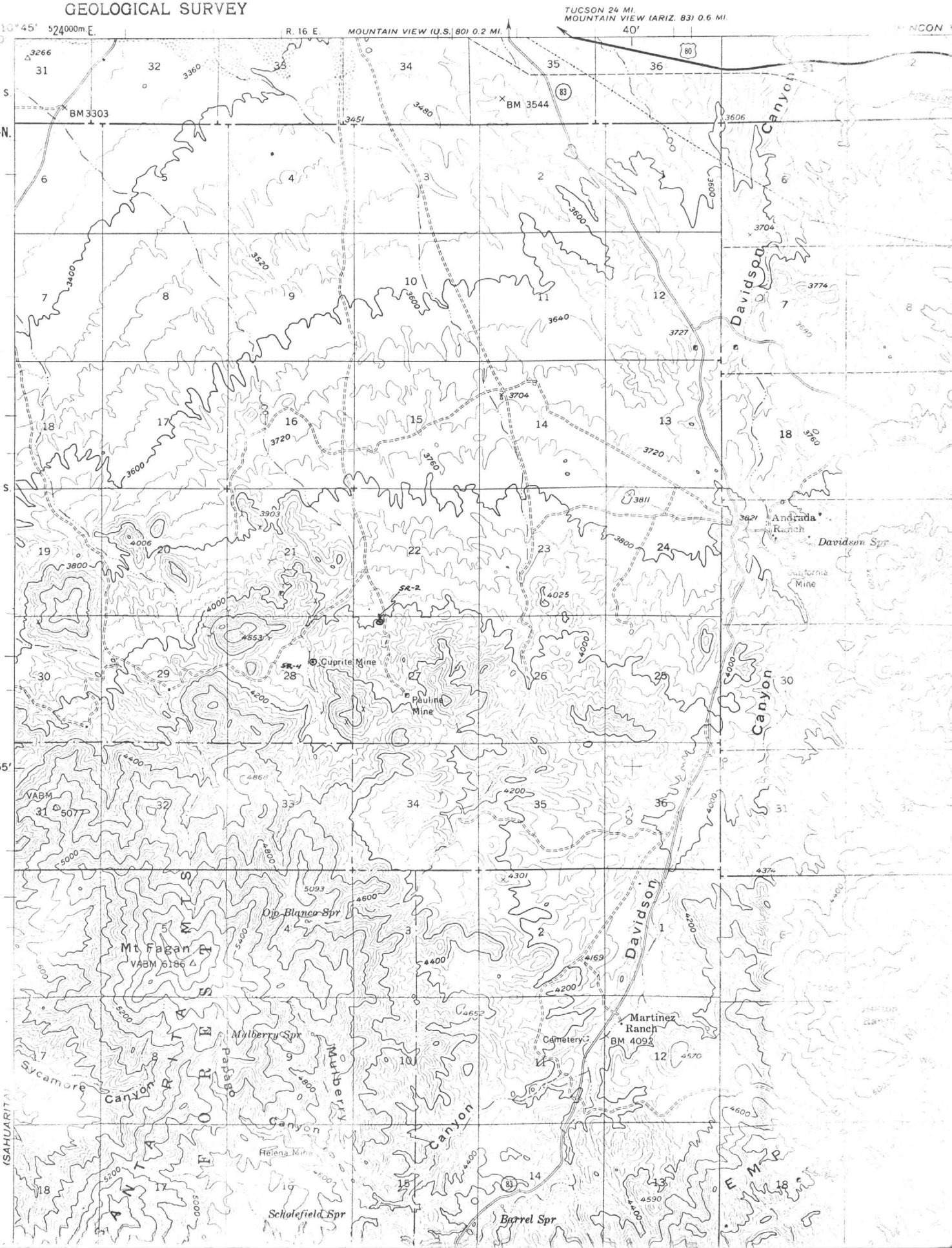
1. Final Report, Santa Rita Project (Cuprite Proj.), dated Apl. 7, 1968, by John Kirkwood, Holt Inc. complete with the following attachments:

    a. 1" = 1000' scale Geologic Map.
    b. 1" = 500' scale Geologic Map-Cuprite Mine Area.
    c. Geochem map - showing location of samples, values.
    d. Copper geochem contour overlay- rock chip sples.
    e. " " " " - soil sples.
    f. Land status map.
    g. IP survey overlay.
    h. Petrographic work description.
    i. Graphic logs- DH's SR-1 thru SR-11.
    j. Descriptive logs of above.
    k. Petrographic analyses.

2. Cores from DDHs SR4 and SR2., locations shown on the attached copy 15min. quad. Cores are complete SR-2 , TD- 1580', SR-4, TD- 1272.6'

3. Skeletonized cores from holes- LB-1, LB-2 and LB-3.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



July 30, 1971

COPY

Mr. Q. A. Shaw, President
North American Mines, Inc.
50 Congress Street
Boston, Mass. 02109

Dear Quinny:

Many thanks for your note of 26 July and the enclosed letter from Chick Hagerty to you with attached data on the Cobre Mountain Copper Property.

Chick is technically correct that the geophysical work did not cross the five southern most claims of the group. However, it would appear that the various mineralized trends in the area were fairly well checked with the work that was done. Of course, this does not mean that every remote possibility is exhausted, but it would seem to considerably down grade the over all potential, especially without some specific or concrete new geologic ideas to incorporate in the justification of further work at this time. Certainly, if one of us are in the area again we will make a point to check it out a little further.

Regarding the Cuprite area, I was able to get a little more information on the Cyprus drilling results. These did not include actual drill logs and assay results but I was told that considerable pyrite was encountered but not very much in the way of paying metal. This would somewhat confirm the general impression I think you and I both got from our trip last Friday, especially over the area of the gradient I.P. anomaly. In examining the hand specimens that I brought back, Chris Ludwig identified some pyrrhotite and there is some suggestion there may be quite a bit of this, although we are sure. This makes one think of nickel possibilities but no one has identified any surface nickel oxidized minerals. Nevertheless, we will check this out to be sure. Paul Head has everything just about compiled in the way of results to date and these will be forwarded to you along with our definite recommendations next week. Right now, it looks like we will be hard put to recommend anything very strongly outside of the central area of interest in the vicinity of the two mineral trend intersections which has not been completely checked out near the two patented claim groups.

We certainly enjoyed the evening with you and the Veritys.

Returned herewith is the Chick Hagerty data as you requested.

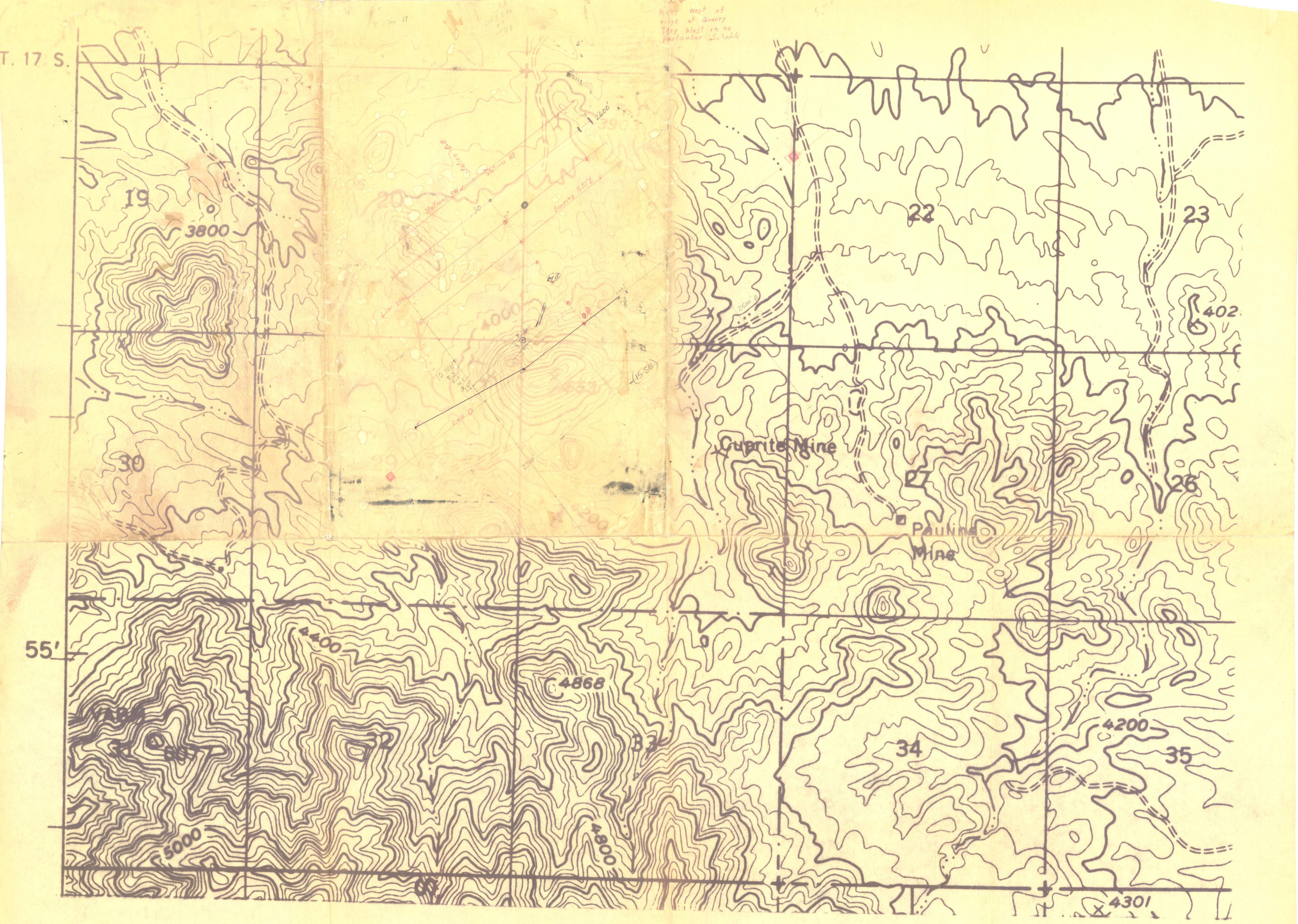
Faithfully,

Walter E. Heinrichs, Jr.

WEH:bb

COPY

7 electrode array
1000' = a
T. 17 S.
17
16
30
4006
3903
19
20
21
22
23
3800
4000
4853
Cuprite Mine
29
28
27
26
4200
Pauline Mine
55'
4500
4868
34
35
4200
5000
4301


T. 17. S.
19
3800
30
22
23
402
Cuprite Mine
27
26
Pauline Mine
55'
4400
4868
34
4200
35
5000
4800
4301

SPEED LETTER®

TO Mr. Vic Verity
Verity & Smith
902 Transamerica Bldg.
Tucson, Arizona

FROM Heinrichs GEOEXploration Co.
P. O. Box 5964
Tucson, Arizona 85703

SUBJECT

No. 9 & 10 FOLD

MESSAGE

DATE Oct. 6, 1971 19

Dear Vic:

Transmitted herewith are following items:

1. 3 sets of 3 Detailed Location Plan and Metallic Conduction Factor Contour Map of Geophysical Survey & Relation to Claim Boundaries and Points of Discovery of Blackstone Claim Group, Helvetia Mining District, Pima County, Arizona
2. Affidavit of Labor Performed 1 Original + 2 cc
3. Report of Geophysical Survey 1 Original + 2 cc

Encl.

SIGNED Paul A. Head/dm

REPLY

DATE 19

No. 9 FOLD

No. 10 FOLD

SIGNED

GrayLine "SNAP-A-WAY" FORM 44-902 3 PARTS
WILSON JONES COMPANY • © 1961 • PRINTED IN U.S.A.

171

SNAP-A-WAY AND RETAIN YELLOW COPY. SEND WHITE AND PINK COPIES WITH CARBON INTACT

REPORT OF GEOPHYSICAL SURVEY

Between May 1 and September 1, 1971 at a cost of at least $400.00, Heinrichs GEOEXploration Company conducted an induced polarization survey on the contiguous group of four claims enumerated on the attached Affidavit of Labor, in the Helvetia Mining District, Pima County, Arizona in fulfillment of the current annual assessment work requirements.

A total of five gradient electrode array lines were completed over the claims, totaling approximately 8,000 linear feet. A "Detailed Location Plan of Geophysical Survey" showing those lines and their positions relative to the Blackstone Claims and points of discovery, is attached to and is a part of this report.

This geophysical survey work applies to and benefits the group as a whole, the four Blackstone claims listed in the affidavit.

Heinrichs GEOEXploration Company personnel involved in the work were Walter E. Heinrichs, Jr., Paul A. Head, Gary L. Hix, James Bauersachs and Franklin A. Seward III. The GEOEX staff was under the direction of Paul A. Head, Geophysicist and the over all direction of Mr. Walter E. Heinrichs, Jr., President of Heinrichs GEOEXploration Company, a registered professional engineer with over 30 years experience.

The basic findings of this geophysical survey are presented in the form of contoured percent frequency effects, metallic conduction factors and apparent resistivity which are plotted to show their relation to the claims.

Paul A Head

Paul A. Head
Geophysicist

Approved: Walter E. Heinrichs, Jr.
President and General Manager

Registered Professional Engineer (Mining)
CERTIFICATE EXPIRES
WALTER E. HEINRICHS, JR.
DEC. 31, 19
ARIZONA, U.S.A.

October 6, 1971
P.O. Box 5964
Tucson, Arizona 85703

AFFIDAVIT OF LABOR PERFORMED
and
IMPROVEMENTS MADE

State of Arizona)
)ss.
County of Pima)

The undersigned, Paul A. Head being duly sworn, deposes and says:

That he is a citizen of the United States of America, and is more than 21 years of age, and is a resident of Tucson, Pima County, State of Arizona; that he is a graduate Geophysical Engineer of the Colorado School of Mines and that he is personally acquainted with the mining claims hereinafter described, which are situated in the Helvetia Mining District, Pima County, Arizona, the location notices of which are recorded in the offices of the County Recorder of said Pima County, Arizona, that between September 1, 1970 and September 1, 1971, at least $400.00 worth of work and improvements were done and performed and improvements made on behalf of the owners of said claims by Heinrichs GEOEXploration Company of Tucson, Arizona at the request of Mr. and Mrs. Richard Waer and Mr. and Mrs. Roy A. Mariscal for the purposes of complying with the laws of the United States pertaining to assessment or annual work; Paul A. Head, Gary L. Hix and James Bauersachs were the men who labored on said claims and did said work and improvements, the same being as follows:

Geophysical surveys of the property were made, a report of which is filed in the office of the County Recorder of Pima County, Arizona and a copy of which is attached to this affidavit and made a part thereof. The mining claims referred to and for the benefit of which said labor was performed and improvements made are: Blackstone #1, Blackstone #2, Blackstone #3 and Blackstone #4.

Said labor performed and improvements made as heretofore setforth is and was for the purposes of satisfying the work required and state laws prescribed by the United States mining laws for the period of September 1, 1970 to September 1, 1971 and this affidavit is made pursuant to the statutes of the State of Arizona.

Paul A Head
Paul A. Head

Subscribed and sworn to before me this 6th of October 1971

My commission expires July 20, 1973

M Jean Heinrichs
Notary Public

HEINRICHS GEOEXPLORATION COMPANY

25% COTTON FIBER

AFFIDAVIT OF LABOR PERFORMED
and
IMPROVEMENTS MADE

State of Arizona)
)ss.
County of Pima)

The undersigned, Paul A. Head being duly sworn, deposes and says:

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Paul A Head
Paul A. Head

Subscribed and sworn to before me this 6th of October 1971

My commission expires July 22, 1973

M. Jean Heinrichs
Notary Public

HEINRICHS GEOEXPLORATION COMPANY

Mag Line 1

Traverse from 17/20 S45W

(1)

624-71
5-7-71
G. HIX
F. SEWARD

TR.MK. REG. U.S. PAT. OFF.

CUPRITE

I = 100'

STA.	TIME	DIAL	NOTES
BASE 3	8:31	96.10	17/16 20/21
Sub 26 STA 13	8:48	96.69	S 1/4 Cor Sec 17
1	:53	96.13	Heading S 45° West. NEAR FENCE
2	:55	6.52	
3	:57	6.35	NEAR STEEL FENCE CORNER POST
4	:59	6.42	
5	9:00	6.56	
6	9:02	6.50	
7	9:04	6.52	
8	9:06	5.11	ON RHYOLITE
9	9:08	4.99	
10	9:09	4.45	
11	9:11	4.82	
12	9:13	4.21	
13	9:15	4.04	
14	9:17	4.02	
15	:18	4.29	
16	:20	4.95	
17	:22	4.40	
18	:24	4.02	
19	:25	4.42	
20	:27	4.85	
21	:29	4.22	
22	:31	4.90	
23	:34	5.85	
24	:36	98.21	RIDGE LINE
25	:39	5.45	ON GRANITE
26	:41	5.28	
27	:43	5.25	ON RHYOLITE

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(2)

28	9:45	96.10	
29	9:50	4.43	ON GRANITE
30	:53	4.23	
STA 26	10:12	96.65	Sub Base
BASE 3	10:31	96.00	

Mag Line 1

(1A)

624-71
5/7/71

TR.MK. REG. U.S. PAT. OFF.

ΔT	Base Corr	Loop Drift	Total Corr	Dial Vol	γ Value
0	-0.17	0	-0.17	95.93	
17		+0.1	-0.16	96.58	3005 off
			-0.16	95.97	2860
			-0.16	96.36	2953
			0.16	96.19	2912
			.15	96.27	2932
			0.15	96.51	2989
			0.15	96.35	2951
			.15	96.37	2955
			.14	94.97	2622
			-0.14	94.85	2593
			.14	94.31	2465
			.14	94.68	2553
			.13	94.08	2410
			.13	93.91	2369
			-0.13	93.89	2365
			.13	94.16	2429
			.13	94.82	2586
			.12	94.28	2457
			.12	93.90	2367
			-0.12	94.30	2462
			.12	94.73	2565
			.11	94.11	2417
			.11	94.79	2579
			.11	94.74	2567
			.11	98.10	3367
			.10	95.35	2712
			.10	95.18	2672
			.10	95.15	2665

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2A

AT	Base Corr			Dial Val	γ Value
			-.09	96.01	2870
			-.09	94.34	2472
			-.09	94.14	2424
104		+0.08	-0.09	96.58	
120	-0.17	98.83 +0.10	-0.07	95.93	

7

5/6/71

5 42	2:46	96.53			
3 43	:47	7.12			
1.0 44	:50	5.99	100'S	of BASE	3
BASE 3	:53	6.00			

J. L. DARLING CORP. TACOMA, WASH. U.S.A. No. 314

Rite-in-the-Rain WATERPROOF

(7A) 624 5/6/71 Mag Line 2

At	Δ Dial			Dial Val	γ Val
	↓			96.46	2977
				97.05	3117
68	-0.07			95.92	2848
68	-0.07			95.93	2850

J. L. DARLING CORP. TACOMA, WASH U.S.A. No. 314 Darling WATERPROOF

(8A) 624 5/6/71 Mag Line 2

Δt	Δ Dial			Dial Val	γ Value
0	-0.09			95.93	2850
				96.45	2974
				95.77	2812
				95.61	2774
				95.89	2841
				95.66	2786
	-0.09			95.39	2722
	-0.08			95.60	2772
				95.67	2788
				96.02	2872
				95.97	2860
				95.86	2834
				96.07	2884
				96.34	2948
27	-0.08			95.93	2850

(8)

Mag Line 2 5-6-71

6Z4-71 CUPRITE G. HIX

100' sta tions F. SEWARD

STA	Time	DIAL	NOTES
BASE 3	3:04	96.02	100'ERS HEADING NORTH ON ROAD FROM BASE 3
1	:06	6.54	
2	:08	5.86	
3	:09	5.70	
4	:11	5.98	
5	:12	5.75	
6	:14	5.48	
7	:15	5.68	
8	:17	5.75	
9	:19	6.10	
10	:20	6.05	
11	:21	5.94	
12	:22	6.15	
13	:24	6.42	Road to Andrade Quarry
BASE 3	3:31	96.01	

J. L. DARLING CORP. TACOMA, WASH USA No. 314 Bond Paper WATERPROOF

624 5/6/71 (5)

Mag Line 2

Traverse Base #3 → #1

200' sta

STA	TIME	DIAL	NOTES
BASE 3	1:06	95.97	GOING SOUTH ON
2	1:09	96.46	ROAD
4	1:11	7.13	
6	1:12	6.07	
8	1:16	6.59	
1000' 10	1:18	5.64	
12	:20	6.87	
14	:22	6.04	
16	:24	5.67	
18	:25	5.83	
2000 20	:27	6.55	
22	:29	6.15	
24	:30	6.50	
26	:32	6.25	
28	:34	6.10	
3000 30	:35	5.64	
32	:37	6.32	
34	:39	6.89	
36	:41	5.85	
38	:42	6.25	

J. L. DARLING CORP. TACOMA, WASH USA No. 314 WATERPROOF

(6)

Traverse Base #1 to #3
Mag Line 2 m intermediat sta

BASE 1	1:45	96.76		0.0 LINE 2 S-1 100' FROM 19	
39 ~~20~~	:50	6.65		200' N. BASE 1	
37 ~~21~~	:52	6.35			
35 ~~22~~	:54	6.56			
33 ~~23~~	:56	5.70			
1000 31 ~~24~~	:57	5.55			
29 ~~25~~	2:00	6.02			
27 ~~26~~	2:02	6.63			
25 ~~27~~	:05	6.10			
23.5 ~~28~~	:10	5.86	BEGIN	50' INTERVALS	
23 ~~29~~	:10	6.20			
22.5 ~~30~~	:15	6.65			
21.5 ~~31~~	:18	2.55			SAMPLE
21 ~~32~~	2:20	5.95			sample
20.5 ~~33~~	2:30	6.62			
19.5 ~~34~~	:32	6.35			
19 ~~35~~	:34	6.10	END	50' INTERVALS	
17 ~~36~~	:36	5.67	START	200' INTERVALS	
15 ~~37~~	:38	5.90			
13 ~~38~~	:40	6.42			
11 ~~39~~	:41	6.39			
9 ~~40~~	:43	7.00			
7 ~~41~~	:44	6.91			

(5A) 624 5/6/71

Mag Line 2

Δt	Δ dial			Dial Val	γ Valve
0	-0.04			95.93	2850
3	-0.04			96.42	2967
5	-0.04			97.09	3127
6	-0.05			96.02	2872
10	-0.05			96.54	2996
12	-0.05			95.59	2770
14	-0.05			96.82	3063
16	-0.05			95.99	2865
18	-0.05			95.62	2777
19	-0.05			95.78	2815
21	-0.06			96.49	2984
23	-0.06			96.09	2889
24	-0.06			96.44	2972
26	-0.06			96.19	2908
28	-0.06			96.04	2877
29	-0.06			95.58	2767
31	-0.06			96.26	2929
33	-0.07			96.82	3063
35	-0.07			95.78	2815
36	-0.07			96.18	2910

J. L. DARLING CORP. TACOMA, WASH USA No. 314 WATERPROOF

(6A) Mag Line 2

Δt	Δ Dial			Dial Val	γ Value
39	+0.07			96.69	3032
				96.58	3005
				96.28	2934
				96.49	2984
				95.63	2779
				95.48	2743
				95.95	2855
				96.56	3001
				96.03	2874
				95.79	2817
				96.13	2898
				96.58	3005
				92.48	2029
				95.88	2839
				96.55	2998
				96.28	2934
				96.03	2874
				95.60	2772
				95.83	2827
				96.35	2951
				96.32	2943
				96.93	3089
				96.84	3067

(6A) May Line 2 5/7/71

TR.MK. REG. U.S. PAT. OFF.

AT	Base Corr	Loop Drif	Total Corr	Dial Value	γ Value
23		-0.03	-0.02	95.01	2631
24		-0.03	-0.02	95.17	2669
25		-0.03	-0.02	95.73	2803
26		-0.03	-0.02	96.01	2869
27		-0.03	-0.02	96.29	2936
29	+0.01	-0.03	-0.02	96.30	2939
43	+0.01	-0.05	-0.04	94.31	

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624-71
5/7/71

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(6)

May Line 2

19	2.44	95.03	
20	.45	95.19	
21	.46	5.75	
22	.47	6.03	
23	.48	6.31	
24	.50	6.32	STA. No. 2 INTERSECTION OF ROADS to Andrada Quarry
E¼ Cor	3.04	94.35	

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(4A) May Line 1

5/7/71

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AT	Base Corr	Loop Drift	Total Corr	Dial Value	γ Value
0	+0.09	0	+0.09	94.31	
2		-1	+.08	94.28	2457
4		1	+.08	94.25	2450
6		1	+.08	94.45	2498
7		2	+.07	94.39	2484
9		2	+.07	94.46	2500
10		3	+.06	94.41	2488
11		3	+.06	94.57	2526
13		4	+.05	94.68	2553
14		4	+.05	94.78	2576
16		-4	+.05	94.86	2596
17		5	+.04	94.24	2448
18		5	+.04	95.02	2634
19		-5	+.04	95.74	2805
21		6	+0.03	96.08	2886
22		6	+0.03	95.98	2862
24		7	+0.02	96.06	2881
25		7	+0.02	96.10	2891
26		7	+0.02	96.27	2932
27		7	+0.02	96.08	2886
29		8	+0.01	95.76	2810
30		8	+0.01	95.68	2791
31		9	+0.00	96.09	2889
32		9	+0.00	95.90	2843
33		10	+0.01	95.98	2862
35		-10	-0.01	95.39	2722
36		10	-0.01	94.79	2579
37		10	-0.01	95.38	2720
39		-11	-0.02	95.67	2789

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(5A)

ΔT	Con Base	Loop Drift	Total Corr	Dial Value	γ value
40	+0.09	-0.11	-0.02	96.04	2877
41		-0.11	-0.02	96.08	2886
42		-0.11	-0.02	95.91	2846
43		-0.12	-0.03	96.91	3084
44		-0.12	-0.03	96.59	3008
45		-0.12	-0.03	96.07	2884
46		-0.13	-0.04	96.51	2987
47		-0.13	-0.04	96.37	2955
51	+0.09	-.14	-0.05	96.58	
0	+0.01	0	+0.01	94.31	
3		0	+0.01	94.32	2467
4		0	+0.01	94.41	2488
5		-.01	+0.00	94.35	2474
6		-.01	+0.00	94.34	2472
8		-.01	+0.00	94.89	2603
9		-0.01	+0.00	94.29	2460
10		-.01	+0.00	94.50	2510
11		-.01	+0.00	94.54	2519
13		-0.02	-0.01	94.50	2510
14		.02	-0.01	94.42	2491
15		.02	-0.01	94.61	2536
16		.02	-0.01	94.78	2576
17		.02	-0.01	94.61	2536
18		.02	-0.01	94.74	2567
19		.02	-0.01	94.89	2603
20		.02	-0.01	94.95	2617
21		.02	-0.01	95.04	2639
22		-0.03	-0.02	95.04	2639

1989 Line 2

Map Line 1 (4)

Traverse 17 E 1/4 to 9 45W S 1/4-17

624-71
5-7-71
G. H. X
F. SLEWARD

TR.MK. REG. U.S. PAT. OFF.

STA	TIME	DIAL	NOTES
E 1/4 #5 17	1:08	94:22	
1	:10	4.21	
2	:12	4.17	
3	:14	4.37	
4	:15	4.32	
5	:17	4.39	
6	:18	4.35	
7	:19	4.51	
8	:21	4.63	
9	:22	4.73	
10	:24	4.81	
11	:25	4.20	
12	:26	4.98	
13	:27	5.70	
14	:29	6.05	
15	:30	5.95	
16	:32	6.04	
17	:33	6.08	
18	:34	6.25	
19	:35	6.06	
20	:37	5.75	
21	:38	5.67	
22	:39	6.09	
23	:40	5.90	
24	:41	5.99	
25	:43	5.40	
26	:44	4.80	
27	:45	5.39	
28	:47	5.69	

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	29	1.48	96.06	
	30	:49	6.10	
	31	:50	5.93	
	32	:52	6.94	
	33	:54	6.62	
	34	:55	7.10	
	35	:56	6.55	
	36	:57	6.41	
Sol	Back STA 26	:59	6.63	120 Feet from 36
				S¼ cor Sec 17.
	E¼ cor	2:19	94:30	E ¼ cor Sec 17
	E¼ cor	2:21	94:30	HEADING N.E.
	1	:24	4:31	
	2	:25	4.40	
	3	:26	4.35	L
*	4	:27	4.34	WEST EDGE OF ROAD
	5	:29	4.89	HEADING South on ROAD
	6	:30	4.29	
	7	:31	4.50	
	8	:32	4.54	
	9	:34	4.51	
	10	:35	4.43	
	11	:36	4.62	
	12	:37	4.79	
	13	:38	4.62	
	14	:39	4.75	
	15	:40	4.90	
	16	:41	4.96	
	17	:42	5.05	
	18	:43	5.06	

May Line 2

5-7-71
6-24-71
G.H.K
F. SEWARD

Traverse N 48° E
100' sta

(3)

Map Line 1

STA	TIME	DIAL	Notes
BASE 3	10:49	95.93	
E¼ ±5/17	11:01	94.26	Found steel pipe
BASE 3	11:10	95.85	
E¼ ±5/17	11:19	94.28	HEADING NE 48°E OVER PEAK
1	:22	4.35	
2	:24	4.36	
3	:25	4.29	
4	:26	4.33	WEST EDGE OF ROAD
5	:28	4.09	ON RED HILL
6	:29	4.10	
7	:31	4.10	
8	:32	4.08	
9	:34	4.08	
10	:35	4.04	Top of Mountain Sample
11	:38	4.01	
12	:39	3.97	
13	:41	3.93	
14	:42	3.89	
15	:44	3.84	
16	:46	4.00	OFF OF RED HILL
17	:48	3.25	BETWEEN TWO TANKS
E¼ ±5/17	12.05	4.25	

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May Line 1 (3A)

624-71
5/7/71

TR.MK. REG. U.S. PAT. OFF.

ΔT	Base Corr	Loop Drift	Total Corr	Dial Val	γ Val
0	0	0	0	95.93	
12	0	+0.05	+0.05	94.31	2465
21-	0-	+0.08	+0.08	95.93	
0	+0.03	0	+0.03	94.31	
		0	.03	94.38	2481
		0	3	94.39	2484
			3	94.32	2467
			3	94.36	2477
			4	94.12	2419
			4	94.14	2424
			4	94.14	2424
			5	94.13	2422
			5	94.13	2422
			5	94.09	2412
			5	94.06	2405
			5	94.02	2396
			6	93.99	2388
			6	93.95	2379
			6	93.90	2367
			6	94.06	2405
		0	.06	93.31	2226
56	+0.03	+0.03	+0.06	94.31	

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CUPRITE MINE 5-6-71

Mag Line 3 624-71 G. Hix

Traverse from #3 to 200 1/4 cor 17/20 · sta F. Seward

STA.	TIME	DIAL	Notes:
Base 1	8:05	96.80	0.0' Line 2 Spread 1
Base 3	8:18	96.04	Sec cor. 17 | 16 / 20 | 21
Base 1	8:28	96.80	
Base 3	:42	95.99	HEADING Due WEST.
2	:45	5.54	OVER GRANITE
4	:48	5.99	
6	:50	6.65	GRANITE OUTCROP
8	:53	7.16	
1000' 10	:56	6.65	
12	9:00	6.58	
14	:02	6.34	
16	:05	6.03	
18	:07	6.79	
2000' 20	:10	4.87	ON RHYOLITE" Sample MAGNETIC
22	:17	4.99	" "
24	:19	6.80	OFF OF RHYOLITE
NEW sub BASE 26	:21	6.62	S 1/4 corner 17/20

(2)

C 624 - CUPRITE

Return on 1/4 Cor on odd station

STA	Time	Dial	Notes: HEADING EAST ALTERNATE 200' 100' E-S 1/4 Cor
~~14~~ 25	9:30	96.38	
~~15~~ 23	9:32	6.78	
~~16~~ 21	:34	5.10	ON RHYOLITE
~~17~~ 19	:36	5.03	" "
~~18~~ 17	:38	6.00	OFF OF RHYOLITE
~~19~~ 15	:39	6.03	
~~20~~ 13	:41	6.50	
~~21~~ 11	:42	6.51	
~~22~~ 9	:44	7.01	
~~23~~ 7	:46	7.66	
~~24~~ 5	:49	5.97	
~~25~~ 3	:50	5.86	
~~26~~ 1	:52	6.47	100' WEST OF BASE 3
BASE 3	:54	5.95	

(1A)	624	Cuprite		5/6/71	
ΔT	Δ Dial			Dial Val	γ Val
0	-0.11			96.69	3032
13	-0.11			95.93	2850
23	-0.11			96.69	3032
0	-0.06			95.93	2851 ✓
3	-0.06			95.48	2743
6	-0.06			95.93	2851
8	-0.06			96.59	3008
11	-0.05			97.11	3132
14	-0.05			96.60	3010
18	-0.05			96.53	2993
20	-0.05			96.29	2936
23	-0.05			95.98	2862
25	-0.05			96.74	3043
28	-0.04			94.83	2589
35	-0.04			94.95	2617
37	-0.04			96.76	3048
39	-0.04			96.58	3005

J. L. DARLING CORP. TACOMA, WASH U.S.A. No. 314 WATERPROOF

2A

ΔT	Δ Dial			Dial Val	γ Value
48	-0.03			96.35	2951
50	-0.03			96.75	3046
52	-0.03			95.07	2646
54	-0.03			95.00	2629
56	-0.03			95.97	2860
57	-0.03			96.00	2867
59	-0.03			96.47	2979
60	-0.03			96.48	2982
62	-0.03			96.58	3005
64	-0.02			97.64	3258
67	-0.02			95.95	2855
68	-0.02			95.87	2829
70	-0.02			96.45	2974
72	-0.02			95.93	2850

	624-	Cuprite		(100'ers) 5-6-71 (3)
W from	17/20 to	18/19 | 17/20		G. HIX
	May	Line	3	F. Seward
STA	TIME	DIAL	NOTES	
BASE 3	10:12	95.90		
Sub base STA 26	10:27	96.58	1/4 CW 17/20	
27	:30	6.06	NEAR GROUNDED FENCE	
28	:32	6.30		
29	:34	6.38		
30	:35	7.00		
31	:36	6.70		
32	:37	6.90		
33	:38	6.35		
34	:40	6.45		
35	:41	6.24		
1000' 36	:44	5.98		
37	:45	6.00		
38	:46	5.89		
39	:47	5.36		
40	:49	5.12		
41	:50	4.85		
42	:52	4.46		
43	:54	4.84		
44	55	4.34		

J. L. DARLING CORP. TACOMA, WASH USA No. 314 Rite in the Rain WATERPROOF

4

45	10:56	94.66			
2000' 46	10:57	94.09	ON RHYOLITE		SAMPLE "
47	11:00	95.18	OFF RHYOLITE		SAMPLE
48	11:05	94.94			
49	11:06	94.99			
50	11:07	4.85			
51	11:09	4.75			
52	11:10	4.15			
53	11:13	4.70	Sec corner	18 17 / 19 20	
STA 23 Sub base	11:30	6.54			
BASE 3	:43	5.90			

	624	Cuprite	5/6/71		(3A)
		Mag	Line	3	
ΔT	Δ Dial			Dial Val	γ Value
0	+0.3			95.93	2850
15	+0.0	slightly off (10 γ)		96.58	3005
18				96.09	2889
20				96.33	2946
22				96.41	2965
23				97.03	3113
24				96.73	3041
25				96.93	3089
26				96.38	2958
28				96.48	2982
29				96.27	2932
32				96.01	2870
33				96.03	2874
34				95.92	2848
35				95.39	2722
37				95.15	2665
38				94.88	2600
40				94.49	2508
42				94.87	2598
43				94.37	2479

J. L. DARLING CORP. TACOMA, WASH USA No. 314
Rite in the Rain WATERPROOF

(4A)

ΔT	Δ Dial			Dial Val	γ Value
44				94.69	2555
45				94.12	2419
48				95.21	2679
53				94.97	2622
54				95.02	2634
55				94.88	2600
57				94.78	2577
58				94.18	2434
61				94.73	2565
78	+0.4	off	38	96.58	3005
91	+0.3			95.93	2850

	Cuprite		624		238.2 8/0
	Base	sta	values		
#1	near	0.0	on IP Line #2		
				96.69	23032
#2 16/21 15/22	40 E of Brass Cap				
				93.90	22367
#3	near Sec Corner		17/20 16/21		
				95.93	22850
E1/4 17/16	station south	of	corner	94.31	22465
Sub Base 26	S 1/4	17/20		96.58	23005

J. L. DARLING CORP. TACOMA, WASH. U.S.A. No. 314

Rite in the Rain WATERPROOF

CUPRITE MINE AREA

JOB # 624 4/30/71

Base 1 → IP Line 2

J.P.M
HIX

STA	TIME	DIAL
BASE 1		
0	0912	6.69
GOING SW	23	7.51
2	16	5.60
3	26	6.19
4	28	6.10
fence-line 30 feet away		
5	31	6.66
6	35	6.18
7	38	5.86
8	41	6.37
9	44	6.10
10	49	6.14
11	52	6.44
12	58	6.49
13	10:01	6.57
14	02	6.88
15	03	6.57
16	05	6.78
17	07	6.67
18	08	6.73
19	09	6.19
SW STA 2000' 20	10	6.16
BASE 1	10:27	96.61

J. L. DARLING CORP. TACOMA, WASH USA No. 314
WATERPROOF

(1A) 4/30/71 627

Δt	Δ Dial			Dial Value	Value γ
0	-0.00			96.69	3032
9	.01			97.50	3229
4	.00			95.60	2772
14	.01			96.18	2291
16	.02			96.08	2886
19	0.02			96.64	3020
23	.02			96.16	2905
26	.03			95.83	2827
29	.03			96.34	2948
32	.03			96.07	2884
37	.04			96.10	2891
40	0.04			96.40	2962
46	.05			96.44	2972
49	.05			96.52	2991
50	.05			96.83	3065
51	.05			96.52	2991
53	.06			96.72	3039
55	.06			96.61	3013
56	.06			96.67	3027
57	.06			96.13	2898
58	.06			96.10	2891
75	-0.08			96.69	3032

①

		HIX HEAD	200'	Cuprite 624 5/5/71	16 | 15 / 21 X 22
IP	LINE 2		BASE	See cov.	
STA.	Time	DIAL	HEADING	NOTE:	
BASE 1 16 | 15 / 21 | 22 0	8:48	93.76	S on Road	toward	IP Line 2
2+00 1	8:55	93.62			
4+00 2	8:57	93.86		Steel TANKS	WATER 100' E.
6+00 3	9:00	3.41			
8+00 4	9:02	3.93			
10+00 5	:04	4:31			
12+00 6	:07	94.00		100' N of	Line 2.
14+00 7	9:10	93.92		between	50E 60 NE.
16 | 15 / 21 | 22 BASE	9.17	93.75			
14+00 7	9:25	93.85			
IP Line 2 60.0 NE	9:27	94.13			L.S. outcrop
62	9:35	94.10			Aplite
64	9:38	93.97			Aplite + Breccia
66	9:42	93.81			Aplite
68	9:45	93.82			Aluv. Float ? Andesite
IP Line 2 70.0 NE	9:48	93.75			Alluvium
72	9:51	93.79			Alluvium
74	9:55	93.77	Dip E 4y	Limestone	Gritty + 100 Hornfels
76	9.57	93.79			L.S. Gritty
78	10:00	93.80			LS Gritty
IP Line 2 80.0 NE	10:03	93.81			LS Gritty
Base 21 | 22	10:12	93.61			

TAYLOR KING CORP. TACOMA, WASH. U.S.A. No. 314
WATERPROOF

2

5/5/71

STA	Time	Dial			
IP 2 80.0 NE	10:27	93.79			Conglom
82	10:32	93.80			conglom art
84	10:36	93.78			conglomerate w calcite veins
86	10:40	93.82	+100 1/4 Cor	15/22 50' N of Line	"
88	10:43	93.83			sandy L.S.
IP Line 2 90.0	10:46	93.85			sandy L.S.
92	10:49	93.87	+150 LS/Aplite	sill?	
94	10:52	93.87			hornfels
96	10:56	93.90			hornfels
98	10:59	93.91			shaley L.S w Fe
IP Line 2 100.0 NE	11:01	93.95			Sandy L.S.
102	11:04	93.99			"
104	11:07	94.01	hornfels or shaly L.S.	Dip NE	
106	11:09	94.04			Sandy L.S
108	11:13	94.08			
IP Line 2 110.0 NE	11:16	94.09	S.S. ??	igneous?	
112.	11:19	94.15			Hornfels
114.	11:21	94.18			"
116.	11:23	94.26			L.S.
118	11:26	94.22	+100 Aplite		ALuv
IP Line 2 120.0 NE	11:29	94.24	Aplite?	Quartzite?	
122	11:32	94.30			Quartzite
124	11:35	94.33			ALuv

(1A) 5/5/91

ΔT	Δ Dial			Dial val	624
0	+.14			93.90	2367
				93.76	2334
				94.00	2391
				93.55	2284
				94.08	2410
				94.46	2500
				94.15	2427
				94.07	2407
29	+.15			93.90	2367
0	+.22			94.07	2407
2	.22			94.35	2474
10	.23			94.33	2469
13	.24			94.21	2441
17	.24			94.05	2403
20	.25			94.07	2407
23	.25			94.00	2391
26	.26			94.05	2403
30	.26			94.03	2398
32	.26			94.05	2403
35	.27			94.07	2407
38	.27			94.08	2410
51	+.29			93.90	2367

(2A)

AT	629 A Dial	5/5/71		Dial Val	δ Val
0	+ .29			94.08	2410
				94.09	2412
				94.07	2407
				94.11	2417
				94.12	2419
				94.14	2424
				94.16	2429
				94.16	2429
	.29			94.19	2436
	.30			94.21	2441
				94.25	2450
				94.29	2460
				94.31	2465
42	+ 0.30			94.34	2472
				94.38	2481
				94.39	2484
				94.45	2498
				94.48	2505
	.30			94.56	2524
	.31			94.53	2517
				94.55	2522
				94.60	2534
				94.63	2541

WATERPROOF
J.L. DARLING CORP. No. 314
TACOMA, WASH. U.S.A.

(3)

Stg	Time	Dial		HEAD HIX	5/5/71
126	11:37	94.33			ALuv
128	11:40	94.44			ALuv
IP Line 2 130.0 NE	11:42	94.50			ALuv
Base 16/21 15/22	11:56	93.59			
16/21 15/22	12:37	93.59			
Road #7 14+00	12:41	93.76			
IP Line 2 60.0 NE	12:46	94.06			
58	12:50	93.70			ALuv
56	12:52	93.83			ALuv
54	12:54	93.79			ALuv
52	12:57	93.84			ALuv
IP Line 2 50.0 NE	12:59	93.80			in Dry wash
48	1:03	93.91			ALuv
46	1:06	93.45			ALuv
44	1:09	94.11	very fine Texture		Quartzite? chert?
42	1:12	93.55			L.S.
IP Line 2 40.0 NE	1:15	93.85			ALuv
38	1:19	93.85			Quartzite chert?
36	1:21	93.84			ALuv
34	1:24	93.90			Quartzite
32	1:26	93.86			L.S. FLOAT
Line 2 30.0 NE	1:28	93.90	+ 100 marble in wash		L.S
28	1:32	93.81			L.S

J. L. DARLING CORP. TACOMA, WASH USA No. 314 WATERPROOF

(4)

STA	Time	Dial		
26	1:35	93.88	Float	L.S. Skarn
24	1:38	94.04	old prospect L.S + dike	Skarn
22	1:40	94.13	Marble	
IP Line 2 20.0 NE	1:43	94.14	L.S.	
Base 15 | 16 ~~21 | 22~~	2:02	93.65		
IP Line 2 20.0 NE	2:24	94.16	+ 50 Grano diorite SKARN + 16 DIKE	L.S.
18	2:27	94.42	Cu stains in Granodiorite	
16	2:31	95.15	near outcrop	G.D
14	2:34	95.35	Road	ALUV
12	2:36	95.85	G.D.	
IP Line 2 10.0 NE	2:38	94.53		ALUV
~~10~~ 11.	2:41	94.88	+ 50 G.D	ALUV
8	2:44	94.20		ALUV
~~6~~	2:47	94.90	Latite ?? + 50	G.D.
4	2:50	94.58	Quartzite Float	ALUV
~~2~~ 2	2:53	95.82	+50	G.D.
IP Line 2 0.0 BASE	2:57	96.45	ALUV	
Base 16 | 15 ~~21 | 22~~	3:19 ~~3:15~~	93.65 ~~93.77~~		

(4A) Cuprite 629 5/5/71

ΔT	Δ Dial	Dial + Drift	+ Base	Dial val	γ val
58	.26			94.14	2424
61	.26			94.30	2462
63	.26			94.39	2484
66	.26			94.40	2486
85	+0.24				
0	0	93.66	+.24	93.90	2367
				94.40	2486
				94.64	2543
				95.39	2722
				95.59	2770
				96.09	2889
				94.77	2574
				95.12	2658
				94.44	2496
				95.14	2662
				94.82	2586
				96.06	2881
		96.45	+.24	96.69	3032
77	-0.01	93.66	.24	93.90	2367

(3A) 5/5/71

ΔT	Δ Dial			Dial Val	γ Val
	.31			94.64	2543
				94.75	2569
				94.81	2584
89	+.31			93.90	2367
0	+.31			93.90	2367
4	+.31			94.07	2407
9	.30			94.35	2474
13	.30			94.06	2391
15	.30			94.13	2422
17	.30			94.09	2412
20	.29			94.13	2422
22	.29			94.09	2412
26	.29			94.20	2438
29	.29			93.74	2329
32	.28			94.39	2484
35	.28			93.83	2350
38	.28			94.13	2422
42	.28			94.13	2422
44	.27			94.11	2417
47	.27			94.17	2431
49	.27			94.13	2422
51	.27			94.17	2431
55	.26			94.07	2407

Gradient pts on dipole dipole Line 3 CAL-1 194 AC 0.0 DC 0.0 Y=0 I=3.5

PAGE 1

HEINRICHS GEOEXPLORATION CO. PROJECT 624 - Cuprite

I.P. RECEIVER NOTES LINE GR-3 HALF W-E SP. ____ DATE July

SEND	1-2	—								
RECEIVE	0-2W	2-4W	4-6W	6-8W	8-10W	10-12W	12-14W	14-16W	16-18W	18-20W
RANGE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
DC 1	2.8	3.2	1.8	2.1	1.8	-1.7(?)	2.0	2.6	3.8	5.0
DC 2 X	0.20	0.16	0.12	0.08	0.04	0	0.04	0.08	0.12	0.16
DC 3 G(X,Y)	0.442	0.462	0.477	0.49	0.495	0.5	0.495	0.49	0.477	0.462
DC 4										
DC 5 ρ/Ωm	311.5	215.9	221.7	303.9	526.4		321.6	244.7	287.6	291.1
DC 6 ρFE	2.8	3.2	1.8	2.1	1.7		2.0	2.6	3.8	5.0
DC 7 MCT	8.99	14.8	8.1	6.9	3.2		6.2	10.6	13.4	17.2
DC 8										
DC AVG.										
AC 1	19.5	12.3	12.4	16.5	28.4	(17.0?)	17.3	13.2	15.5	16.3
AC 2	0.0	0.0	0.0	0.0	+.2	(?)	0.0	0.0	0.0	+0.1
AC AVG.										
S.P.	-47.7	-2.5	+43.5	+28.1	+31.4	+42.0	-58.9	-43.7	+13.6	-8.1
AC NOISE										
POT RES.	40K	50K	25K	80K	90K	400K	125K	150K	60K	75K

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT 624 Cupute
LINE 3 GR HALF W SP. 1 DATE July

SEND	1-2									
RECEIVE	20-22W	22-24W	24-26W	26-28W	28-30W	30-32W	32-34W	34-36W	36-38W	38-40W
RANGE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
DC 1	6.0	4.6	4.0	2.0	2.0	1.8	2.0	2.1	1.0	1.1
DC 2 X	0.20	0.24	0.28	0.32	0.36	0.40	0.44	0.48	0.52	0.56
DC 3 G(X-T)	0.442	0.418	0.392	0.368	0.338	0.304	0.273	0.24	0.20	0.15
DC 4 PFE	6.0	4.6	4.0	2.0	2.0	1.8	2.0	2.1	1.0	1.1
DC 5 S/N	226.0	365.4	256.7	300.7	313.3	376.0	392.7	552.2	211.2	210.5
DC 6 MCF	26.5	12.6	15.6	6.7	6.4	4.8	5.1	3.8	4.7	5.2
DC 7										
DC 8										
DC AVG.										
AC 1	13.1	22.7	17.1	22.0	21.5	33.0	38.3	61.2	28.4	37.7
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	+0.2	0.0	0.0	0.0
AC AVG.										
S.P.	+45.6	-26.8	+1.7	-60.0	+33.0	-18.4	-19.1	+68.6	+38.9	
AC NOISE										
POT RES.	70K	80K	90K	75K	100K	100K	40K	15K	20K	20K

station relative to Line 3

Y = 0.2
I = 3.5

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT 624 Cupuke
LINE 10NW HALF E SP. 1 DATE 7/1

SEND	1-2									
RECEIVE	40-38W	38W-36	36W-34	34-32W	32-30W	30-28W	28-26W	26-24W	24-22W	22-20W
RANGE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
DC 1	1.4	2.0	1.7	1.4	1.2	1.6	2.0	2.4	2.2	2.3
DC 2	0.56	0.52	0.48	0.44	0.40	0.36	0.32	0.28	0.24	0.20
DC 3	0.26	0.271	0.292	0.32	0.350	0.378	0.408	0.432	0.456	0.476
DC 4 DFE	1.4	2.0	1.7	1.4	1.2	1.6	2.0	2.4	2.2	2.3
DC 5 ρ/2π	395.1	373.5	259.1	338.1	306.5	306.8	433.6	366.5	386.1	392.6
DC 6 MCF	3.5	5.4	6.6	4.1	3.9	5.2	4.6	6.5	5.7	5.9
DC 7										
DC 8										
DC AVG.										
AC 1	40.7	36.7	23.7	28.3	23.5	21.7	28.3	22.5	22.5	21.9
AC 2	0.0	40.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.	-003	+10.0	+17.6	-6.1	+8.5	+41.4	+18.7	+5.5	+8.0	+003
AC NOISE										
POT RES.	6K	10K	10K	30K	40K	20K	25K	50K	25K	20K

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT 624 Cupute
LINE 10NW HALF W SP. 1 DATE July

SEND	20-18	18-16W	16-14W	14-12W	12-10W	10-8W	8-6W	6-4W	4-2W	2-0W
RECEIVE										
RANGE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1
DC 1	1.8	1.9	1.7	1.5	1.0	1.2	1.2	2.4	4.2	4.0
DC 2	0.16	0.12	0.08	0.04	0	0.04	0.08	0.12	0.16	0.20
DC 3	0.497	0.51	0.522	0.528	0.53	0.528	0.522	0.51	0.497	0.476
DC 4 PFE	1.8	1.9	1.7	1.5	1.0	1.2	1.2	2.4	4.2	4.0
DC 5 P/2π	337.2	369.2	418.3	353.2	275.9	356.1	243.1	325	286	148.7
DC 6 MCF	5.3	5.1	4.1	4.2	3.6	3.4	4.9	7.4	14.7	26.9
DC 7										
DC 8										
DC AVG.										
AC 1	18.1	19.3	21.4	17.9	14.0	18.1	12.5	16.9	15.0	8.16
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.	-42.5	-38.5	-3.00	+14.9	+10.4	+14.2	-3.0	-3.4	+28.4	+78.0
AC NOISE										
POT RES.	30K	15K	45K	35K	35K	32K	15K	17K	15K	25K

pg #1

w 10 NW

INDUCED POLARIZATION SENDER NOTES

Project: 624 Line: 10 N W Date: 6/30

Send	1-2	→										
Receive	40-39	39-38	38-37	37-36	36-35	35-34	34-33	33-32	32-31	31-30	30-29	29-28
Time												
Range V	600	600	600	600	600	600	600	600	600	600	600	600
Current	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5

Send	1-2	→										
Receive	28-27	27-26	26-25	25-24	24-23	23-22	22-21	21-20	20-19	19-18	18-17	17-16
Time												
Range	600	600	600	580	580	580	580					
Current	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5				

pg #2

INDUCED POLARIZATION SENDER NOTES

Project: 624 Line: 10NW Date: 6/30

Send	1-2	→										
Receive	16-15	15-14	14-13	13-12	12-11	11-10	10-9	9-8	8-7	7-6	6-5	5-4
Time												
Range ✓												
Current												
Send	1-2	→										
Receive	4-3	3-2	2-1	1-0								
Time												
Range ✓												
Current												

pg #1 3GR W 1/2

INDUCED POLARIZATION SENDER NOTES

Project: 624 Line: 3 GR Date: 6/30

Send	1-2	→										
Receive	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12
Time												
Range V	580	580	600	600	600	600	600	600	600	600	600	600
Current	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Send	12	→										
Receive	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
Time												
Range V	600	600	600	600	600	600	600	600				
Current	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5

PS #2 w/2

INDUCED POLARIZATION SENDER NOTES

Project: 624 Line: Date: 6/3

Send	1-2											
Receive	24-25 W	25-26	26-27	27-28	28-29	29-30	30-31	31-32	32-33	33-34	34-35	35-36
Time												
Range V												
Current												
Send	1-2											
Receive	36-37	37-38	38-39	39-40								
Time												
Range V												
Current												

CAL 1 (3.0 0.3) Y=0.6 I=3.5
AC 194
AC 0.0
DC -.1

PAGE 1

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT 62C Cuprite
LINE 30 NW HALF ____ SP. 1 DATE 2 July

SEND	1-2									
RECEIVE	0-2E	2-4E	4-6E	6-8E	8-10E	10-12E	12-14E	14-16E	16-18E	18-20E
RANGE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	0.1	1.0
DC 1	1.7	1.8	1.6	1.8	1.9	1.8	1.8	1.7	2.1	2.5
DC 2 X	0.02	0.06	0.10	0.14	0.18	0.22	0.26	0.30	0.34	0.38
DC 3 G(X)	0.794	0.792	0.790	0.783	0.777	0.770	0.760	0.751	0.740	0.73
DC 4										
DC 5 ρ/pt	392.8	457.6	423.0	440.7	347.2	355.3	302.2	234.2	238.6	284.0
DC 6 pFE	1.8	1.9	1.7	1.9	2.0	1.9	1.9	1.8	2.2	2.6
DC 7 MCF	4.6	4.2	4.0	4.3	5.8	5.3	6.3	7.7	9.2	9.2
DC 8										
DC AVG.										
AC 1	13.2	15.4	14.3	15.0	11.9	12.3	10.6	8.32	8.57	10.8
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.	-20.4	+10.4	-6.6	-3.9	+9.3	+7.3	+13.4	+1.5	-4.3	+16.5
AC NOISE										
POT RES.	15K	8K	10K	6K	7K	7K	6K	15K	40K	25K

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT 624 Aspirite
LINE 30NW HALF E SP. ____ DATE 2 Jul 9

PAGE 2

SEND	20-22	22-24	24-26							
RECEIVE										
RANGE	1.0	0.1	1.0							
DC 1	2.8	2.0	2.2							
DC 2	0.42	0.46	0.50							
DC 3	0.721	0.717	0.71							
DC 4										
DC 5 P/M	360.6	222.6	304.9							
DC 6 PFE	2.9	2.1	2.3							
DC 7 MCE	8.0	9.4	7.5							
DC 8										
DC AVG.										
AC 1	13.2	8.26	11.4							
AC 2	0.0	0.0	0.0							
AC AVG.										
S.P.										
AC NOISE	+8.7	+114.3	-93.1							
POT RES.	70K	40K	20K							

East half

INDUCED POLARIZATION SENDER NOTES

Project: Cupric Line: 30 NW Date: 2 Jul 71

Send	1-2											
Receive	0-2	2-4	4-6	6-8	8-10	10-12	12-14	14-16	16-18	18-20	20-22	22-24
Time												
Range	600	600	600	600	600	600	600	600	600	600	600	600
Current	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Send	24-26											
Receive												
Time												
Range	600											
Current	3.5											

CAL 2A

CAL 2
19V
8

29=200 Y=0.4

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT 624
LINE 20NW HALF E SP. 1 DATE 30 Aug

PAGE 16

SEND	–									
RECEIVE	0-2	2-4	4-6	6-8	8-10	10-12	12-14	14-16	16-18	18-20
RANGE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
DC 1	1.7	1.8	1.9	2.0	2.8	3.8	3.7	3.7	3.6	3.8
DC 2 X	0.06	0.10	0.14	0.18	0.22	0.26	0.30	0.34	0.38	0.42
DC 3 G(X-Y)	0.622	0.616	0.606	0.593	0.579	0.564	0.540	0.522	0.500	0.476
DC 4										
DC 5 P/SM	289	356	259	252	294	319	266	289	227	407
DC 6 DTE	1.7	1.8	1.9	2.0	2.8	3.8	3.7	3.7	3.6	3.8
DC 7 MCF	5.89	5.06	7.33	7.95	9.5	11.91	17.91	12.80	15.86	9.3
DC 8										
DC AVG.										
AC 1	12.4	15.4	11.4	11.3	13.4	14.8	12.9	14.5	11.9	22.4
AC 2	0.0	0.0	0.0	0.0	+.1	0.0	0.0	+.1	0.0	0.0
AC AVG.										
S.P.	-60.2	+10.0	-15.4	-5.3	+2.4	+62.9	-52.0	+7.4	-1.8	-31.4
AC NOISE										
POT RES.	8K	6K	10K	30K	41K	27K	25K	15K	28K	47K

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

CAL 2

AC1 194
DC .0
AC2 00

PROJECT 20NW-E1/2
LINE 220E HALF ____ SP. ____ DATE ____

PAGE

SEND										
RECEIVE	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10
RANGE	0.1	0.1	0.1							
DC 1										
DC 2										
DC 3										
DC 4										
DC 5										
DC 6										
DC 7										
DC 8										
DC AVG.										
AC 1	7.26	7.3	8.4							
AC 2	0.0	0.0	0.0							
AC AVG.										
S.P.	-43.0	-5.3	+25.5	-25.9						
AC NOISE										
POT RES.	65K	53K	60K	10K						

Y=0.5

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT 624 Cupute

LINE 25NW HALF E SP. 1 DATE 30 June

SEND	20-18	18-16	16-14	14-12	12-10	10-8	8-6	6-4	4-2	2-0
RECEIVE										
RANGE	1.0	1.0	1.0	0.1	1.0	0.1	1.0	1.0	1.0	1.0
DC 1	3.3	3.4	3.2	2.6	2.7	2.4	2.4	2.2	2.0	1.6
DC 2	0.42	0.38	0.34	0.30	0.26	0.22	0.18	0.14	0.10	0.06
DC 3	0.589	0.600	0.620	0.674	0.650	0.661	0.676	0.686	0.692	0.698
DC 4										
DC 5	320	281	330	209	356	241	319	436	314	360
DC 6 PFE	3.3	3.4	3.2	2.6	2.6	2.4	2.4	2.1	2.0	1.6
DC 7	10.09	12.10	9.70	12.44	7.70	9.97	7.53	4.82	6.36	4.44
DC 8										
DC AVG.										
AC 1	14.6	12.3	14.0	8.78	14.5	9.66	12.5	16.9	12.1	13.8
AC 2	0.0	0.0	0.0	0.0	+.2	0.0	0.0	+.2	0.0	0.0
AC AVG.										
S.P.	-12.3	-28.3	+17.2	+2.7	0.0	-.4	-27.0	-14.8	-13.6	+6.8
AC NOISE										
POT RES.	22K	10K	12K	21K	18K	15K	30K	15K	6K	42K

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT 624 - Cupite
LINE ____ HALF ____ SP. ____ DATE ____

PAGE

SEND										
RECEIVE	SP- ONLY									
RANGE										
DC 1										
DC 2										
DC 3	20NW to 25NW - E 1/2									
DC 4										
DC 5	0-2	2-4	4-5 (100.)							
DC 6										
DC 7										
DC 8										
DC AVG.										
AC 1										
AC 2										
AC AVG.										
S.P. -	2.3	+8.9	-10.8							
AC NOISE										
POT RES.										

E 1/2 25 NW

INDUCED POLARIZATION SENDER NOTES

Project: 629 Line: 25 NW Date: 6/27

Send	1-2											
Receive	20-18	18-16	16-14	14-12	12-10	10-8	8-6	6-4	4-2	2-0	10-11	11-12
Time ✓												
Range ✓	570	570	570	570	570	570	570	570	570	570		
Current	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5		
Send	1-2											
Receive	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20				
~~Time~~												
Range ✓												
Current												

INDUCED POLARIZATION SENDER NOTES

Project: 624 Line: 20 NW Date: 6/27 20NW

Send	1-2											→
Receive			0-2	2-4	4-6	6-8	8-10	10-12	12-14	14-16	16-18	18-20
Time												
Range	600	600	490	570	570	570	570	570	570	570	570	570
Current	3.5		3.0	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Send												
Receive	12-8											
Time												
Range												
Current												

W 1/2
25NW

INDUCED POLARIZATION SENDER NOTES

Project: 624 Line: 25 - NW Date: 6/27

Send	1-2											
Receive	0-1 W	1-2 W	2-3 W	3-4 W	4-5 W	5-6 W	6-7 W	7-8 W	8-9 W	9-10 W	10-11 W	11-12 W
~~Time~~												
~~Range~~ V	600	560	560	560	560	560	560	600	600	600	600	600
Current	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5

Send	1-2							
Receive	12-13 W	13-14 W	14-15 W	15-16 W	16-17 W	17-18 W	18-19 W	19-20 W
Time								
~~Range~~ V	600	600	600	600	600	600	600	600
Current	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5

#2 ~~1~~ 1/2 20NW

INDUCED POLARIZATION SENDER NOTES

Project: 624 Line: 20 NW Date: 6-29

Send	1-2	→										
Receive	20-19 W	19-18 W	18-17 W	17-16 W	16-15 W	15-14 W	14-13 W	13-12 W	12-11 W	11-10 W	10-9 W	9-8 W
~~Time~~												
Range V	600	600	600	600	600	600	600	600	600	600	600	600
Current	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Send			1-2	→								
Receive	8-7 W	7-6 W	6-5 W	5-4 W	4-3 W	3-2 W	2-1 W	1-0 W				
~~Time~~												
Range V	600	600	600	600	600	600	600	600				
Current	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5				

I = 4
Y = 0.05

PAGE 1

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT 624-71
LINE 1.5NW HALF SW SP. 1 DATE 2-9

SEND	CAL	S-P	1-2							
RECEIVE	1.0.	3.NW-1.5W	24-22	22-20	22-20	20-18	18-16	16-14	14-12	12-11
RANGE			1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
DC 1	1.0) 0.0									
DC 2	0.3)-0.2		1.4	1.3	1.8	1.3	1.2	2.5	4.0	3.9
DC 3	0.1)-0.2									
DC 4	X		0.216	0.150	0.083	0.186	0.050	0.117	0.183	0.216
DC 5			0.433	0.470	0.491	0.501	0.498	0.479	0.454	0.433
DC 6										
DC 7	PFE		1.6	1.5	2.0	1.5	1.4	2.6	4.1	4.1
DC 8	8/27		430.8	523.4	515.2	384.5	353.1	372.2	428.1	281.3
DC AVG.	MCF		3.7	2.9	3.9	3.9	4.0	7.0	9.6	14.6.0
AC 1	194		85.6	94.6	88.7	65.2	61.4	65.3	78.1	26.9
AC 2	0.0		0.0	0.0	0.0	0.0	0.0	+0.2	+0.2	0.0
AC AVG.										
S.P.		-10.4	+32.1	-9.5	+10.8	+29.9	+5.8	+9.2	+40.1	-56.9
AC NOISE										
POT RES.			5	8	5	10	12	18	12	15

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT 624-71
LINE 15NW HALF SW SP. 2 DATE 2-9

SEND	1-2									S-P
RECEIVE	11-10	10-9	9-8	8-7	7-6	6-5	5-4	4-2	2-0	3-10 SW
RANGE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5 NW-2
DC 1										
DC 2	5.2	3.9	4.8	4.1	3.3	3.6	2.9	2.3	2.6	
DC 3										
DC 4 ×	0.250	0.283	0.316	0.350	0.383	0.416	0.450	0.516	0.583	
DC 5	0.414	0.393	0.365	0.345	0.320	0.295	0.260	0.220	0.190	
DC 6										
DC 7 PFG	5.4	4.1	4.9	4.3	3.5	3.8	3.1	2.5	2.8	
DC 8 ρ	251.0	467.8	464.5	288.8	213.6	201.7	125.0	116.7	181.4	
DC AMPF	24.5	8.8	10.5	14.9	16.4	18.8	24.8	22.4	15.4	
AC 1	24.8	49.3	52.4	34.6	27.8	28.4	20.1	42.7	89.5	
AC 2	0.0	0.0	+0.2	0.0	0.0	0.0	0.0	0.0	0.0	
AC AVG.										
S.P.	+7.8	+16.6	+37.8	-15.9	+43.9	-20.2	-15.8	+3.9	+7.7	+12.2
AC NOISE	See Cal	100's of	11'							
POT RES.	Un Gs	≈ 10.5	18	5	9	9	10	4	3	

INDUCED POLARIZATION SENDER NOTES

Project: Cuprite Line: 1.5 NW Date: 9 Jul 71

Send	1-2											
Receive	26-24	24-22	22-20	20-18	18-16	16-14	14-12	12-10	10-8	8-6	6-4	4-2
Time												
Range V	500	500	500	500	500	500	500	500	500	500	500	500
Current A	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Send	1-2											
Receive	2-0											
Time												
Range V	500											
Current A	4.0											

I = 4
Y = 0.0167

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT 624-71
LINE 0.5NW HALF SW SP. 1 DATE 2-9

PAGE 3

SEND	S-P	21-22								
RECEIVE	65-0.5	26-24	24-22	22-20	20-18	18-16	16-14	14-12	12-10	
RANGE		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
DC 1										
DC 2		1.3	1.9	1.8	1.8	2.1	2.5	2.8	3.4	
DC 3 X		0.216	0.150	0.083	0.0166	0.05	0.117	0.183	0.25	
DC 4		0.433	0.467	0.489	0.498	0.494	0.475	0.450	0.418	
DC 5		1								
DC 6 PFE		1.5	2.1	2.0	2.0	2.3	2.7	3.0	3.6	
DC 7 V/2π		453.7	438.5	449.5	488.4	418.5	299.3	387.6	420.4	
DC 8 MCF		3.3	4.8	4.4	4.1	5.5	9.0	7.7	8.6	
DC AVG.										
AC 1		89.0	79.3	77.7	82.9	71.4	52.9	72.1	83.7	
AC 2		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
AC AVG.										
S.P.	+1.3	+21.0	+4.2	+12.5	-4.4	+54.6	+11.3	-38.4	-7.4	
AC NOISE									STA 10 @ 150' S Sec L	
POT RES.	6	8	7	15	28	60	70	28	25	

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT 624-71
LINE 0.5 HALF SW SP. 1 DATE 7-9

PAGE 4

SEND	1-2						4	S-P	S-P	
RECEIVE	10-8	8-7	7-6	6-5	5-4	4-2	2-0	8.5-6.0	10^2-8.5	
RANGE	1.0	1.0	1.0	1.0	1.0	1.0	1.0		1	
DC 1									1 low on Line 10 N	
DC 2	4.7	4.5	4.3	3.8	3.4	2.6	2.3			
DC 3 ×	0.317	0.35	0.383	0.416	0.450	0.516	0.583			
DC 4	0.369	0.345	0.318	0.294	0.265	0.220	0.168			
DC 5										
DC 6 PFZ	4.9	4.7	4.5	4.0	3.6	2.8	2.5			
DC 7	322.3	284.0	214.3	166.0	175.8	158.4	192.3			
DC 8	15.2	16.5	21.0	24.1	20.5	17.7	13.0			
DC AVG.										
AC 1	71.8	33.9	27.8	23.4	27.6	60.4	96.3			
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
AC AVG.										
S.P.	+32.6	+10.1	+1.5	+18.7	+20.3	-11.7	+5.8	+15.4	+57.1	
AC NOISE	Some, Grounded ± 10.									
POT RES.	16	5	5	6	35	30	55	20		

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT 624-71

LINE 15 HALF SW SP. 1 DATE 79

PAGE 5

SEND	1-2									
RECEIVE	0-2	2-4								
RANGE	1.0									
DC 1										
DC 2	2.6									
DC 3										
DC 4										
DC 5										
DC 6 PZE	2.8									
DC 7										
DC 8										
DC AVG.										
AC 1	84.3									
AC 2	0.0									
AC AVG.										
S.P.	-5.1	+0.4								
AC NOISE										
POT RES.	11									

INDUCED POLARIZATION SENDER NOTES

Project: Cuprite Line: 0.5 NW Date: 9 Jul 71

Send	1-2											
Receive	26-24	24-22	22-20	20-18	18-16	16-14	14-12	12-10	10-8	8-6	6-4	4-2
Time												
Range V	500	500	500	500	500	500	500	500	500	500	500	500
Current A	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Send	1-2											
Receive	2-0											
Time												
Range V												
Current A												

I = 4
Y = 0.2

PAGE 1

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT 624-71
LINE 6 HALF SW SP. 1 DATE 2-8

SEND	CAL	1-2								
RECEIVE	1-2	26-24	24-22	22-20	20-18	18-16	16-14	14-12	12-10	
RANGE	10.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
DC 1										
DC 2	1.0-0.2	1.8	2.0	2.3	1.8	1.8	2.4	2.4	4.4	
DC 3	2-0.1									
DC 4 X	.1+0.2	0.216	0.150	0.083	0.0166	0.050	0.117	0.183	0.250	
DC 5		0.468	0.50	0.521	0.530	0.527	0.512	0.483	0.45	
DC 6 PFE		1.8	2.0	2.3	1.8	1.8	2.4	2.4	4.4	
DC 7 ρ/2π		368.0	430.6	338.7	324.8	321.1	183.0	277.1	345.4	
DC 8 MCF		4.9	4.6	6.8	5.5	5.6	13.1	8.7	12.7	
DC AVG.										
AC 1	194.	66.6	72.8	54.8	51.9	51.6	30.1	48.3	63.4	
AC 2	+0.2	+0.2	+0.2	+0.2	+0.2	+0.2	+0.2	+0.2	+0.2	
AC AVG.										
S.P.		+14.6	+16.4	-2.1	+9.7	+23.9	+16.0	+15.9	+15.3	
AC NOISE										
POT RES.										

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT 624-71
LINE 6.NW HALF SW SP. 1 DATE 7-8

SEND	1 & 2	→	→	→	→	SP.	S.P			
RECEIVE	10-8	8-6	6-4	4-2	2-0	8.5-6.0	6.0-4.5			
RANGE	1.0	1.0	1.0	1.0	1.0					
DC 1										
DC 2	3.4	2.5	~~2.5~~	3.0	2.9					
DC 3			3.2							
DC 4	0.317	0.383	0.450	0.516	0.583					
DC 5	0.409	0.36	0.31	0.273	0.230					
DC 6 PFE	3.4	2.5	3.2	3.1	2.9					
DC 7	215.3	244.4	171.8	217.7	253.9					
DC 8	15.8	10.2	18.6	14.2	11.4					
DC AVG.			+0.2							
AC 1	43.9	57.1	~~46.3~~	66.7	92.5					
AC 2	+0.2	+0.2	~~+0.2~~	0.0	+0.2					
AC AVG.										
S.P.	+4.2	+57.6	-41.7	+33.5	-8.8	-24.8	-4.6			
AC NOISE		UNG	Gain 36.5							
POT RES.										

I = 4
γ = 0.1

PAGE 5

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT 624-71
LINE 3,0 HALF SW SP. / DATE 7-8

SEND S-P	1-2									
RECEIVE	26-24	24-22	22-20	20-18	18-16	16-14	14-12	14-13	12-11	11-10
RANGE λW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
DC 4.5-3.0										
DC 2	1.4	1.9	1.8	1.3	1.2	2.3	4.7	4.6	4.7	5.9
DC 3										
DC 4 X	0.216	0.150	0.083	0.0166	0.050	0.117	0.183	0.150	0.216	0.250
DC 5	0.442	0.472	0.496	0.508	0.503	0.488	0.460	0.472	0.442	0.411
DC 6 PFE	1.5	1.9	1.8	1.4	1.2	2.3	4.7	4.6	4.7	5.9
DC 7	345.5	465.2	339.1	285.0	248.0	303.4	327.3	337.8	310.2	306.9
DC 8	4.3	4.1	5.3	4.9	4.8	7.6	14.4	13.6	15.2	19.2
DC AVG.										
AC 1	66.4	83.4	57.9	~~45.2~~		52.4	58.6	29.5	28.9	30.4
AC 2	0.0	+0.2	+0.2	47.7	42.0	+0.2	+0.2	+0.2	+0.2	+0.2
AC AVG.				0.0	+0.2					
S.P. +13.2	-6.1	+7.9	+11.2	+23.4	+27.8	+41.9	-46.0	-65.3	+23.8	-0.9
AC NOISE										
POT RES.										

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT 624-71
LINE 3.0 HALF SW SP. 1 DATE 7-8

SEND	1-2					→	S-P			
RECEIVE	10-9	9-8	8-6	6-4	4-2	2-0	3.0-4.5			
RANGE	1.0	1.0	1.0	1.0	1.0	1.0				
DC 1										
DC 2	4.9	3.0	4.5	2.2	2.0	2.3				
DC 3										
DC 4	0.283	0.316	0.383	0.450	0.516	0.583				
DC 5	0.402	0.378	0.33	0.278	0.228	0.173				
DC 6 DPE	4.9	3.0	4.5	2.3	2.0	2.3				
DC 7	210.3	216.7	298	114.5	76.1	127.5				
DC 8	23.3	13.8	15.1	20.0	26.3	18.1				
DC AVG.										
AC 1	21.5	24.0	74.5	34.7	28.8	61.9				
AC 2	+0.2	+0.2	+0.2	0.0	+0.2	+0.2				
AC AVG.										
S.P.	-34.8	+19.3	+52.9	-56.4	+6.4	+16.7	+8.3			
AC NOISE	on G.	fence								
POT RES.	≈ 9.0									

I=4
Y=9.5

PAGE 3

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT 624-71
LINE 4.5 HALF SW SP. 1 DATE 7-8

SEND	1-2									
RECEIVE	0-2	2-4	4-6	6-8	8-10	10-12	~~12-14~~	~~14-16~~	~~16-18~~	~~18-20~~
RANGE	1.0	1.0	1.0	1.0	1.0	1.0	~~8-9~~	~~9-10~~	10-11	11-12
DC 1							1.0	1.0	1.0	1.0
DC 2	2.5	2.7	2.1	3.4	4.3	5.6	4.3	4.5	5.9	5.2
DC 3							8-9	9-10		
DC 4 X	0.583	0.516	0.450	0.383	0.317	0.250	0.316	0.283	0.261	0.216
DC 5	0.215	0.249	0.297	0.342	0.293	0.433	0.395	0.414	0.432	0.452
DC 6 PFE	2.5	2.7	2.1	3.4	4.3	5.6	4.3	4.6	5.9	5.2
DC 7	197.8	173.2	153.0	235.8	206.8	365.7	237.0	186.8	392.6	348.6
DC 8	12.6	15.6	13.7	14.4	20.8	15.3	18.1	24.6	15.0	14.9
DC AVG.										
AC 1	77.4	58.4	43.5	57.5	43.5	68.7	24.8	18.6	37.0	31.7
AC 2	+0.2	+0.2	+0.2	+0.2	+0.2	+0.2	+0.2	0.0	+0.2	+0.2
AC AVG.	+16.8									
S.P.		+6.8	+6.9	+73.3	-56.7	-0.2	-53.5	-7.4	+16.9	-9.1
AC NOISE							on G. Fence ≈9'			
POT RES.										

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT 624-71
LINE 4.5 HALF 50 SP. 1 DATE 7-8

SEND	1-2			★				→	S-P	
RECEIVE	12-13	13-14	14-16	16-18	18-20	20-22	22-24	24-26	4.5 m-Gone	
RANGE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
DC 1										
DC 2	4.9	3.8	1.5	1.2	1.5	1.9	1.9	1.6		
DC 3	~~0.49~~	~~0.482~~			0.016					
DC 4	0.183	0.150	0.117	0.050	0.0166	0.083	0.150	0.216		
DC 5	0.470	0.482	0.499	0.514	0.483	0.509	0.482	0.452		
DC 6 PFE	4.9	3.9	1.5	1.2	1.5	1.9	2.0	1.6		
DC 7	336.2	284.6	274.9	281.7	237.1	409.7	387.2	360.0		
DC 8	14.6	13.7	5.5	4.3	6.3	4.6	5.2	4.4		
DC AVG.										
AC 1	29.4	24.5	46.8	46.7	41.7	68.1	67.9	67.6		
AC 2	+0.2	0.0	+0.2	+0.2	+0.2	+0.2	0.0	+0.2		
AC AVG.										
S.P.	-12.2	+24.5	-15.7	+29.5	-6.9	+10.8	+11.0	+13.4	+10.5	
AC NOISE				Rock Sample						
POT RES.										

INDUCED POLARIZATION SENDER NOTES

Project: Cuprite Line: 3 NW Date: 8 Jul 71

Send	1-2											
Receive	26-24	24-22	22-20	20-18	18-16	16-14	14-12	12-10	10-8	8-6	6-4	4-2
Time												
Range	370	370	370	370	370	370	370	370	370	370	370	370
Current	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A
Send	1-2											
Receive	2-0											
Time												
Range	370											
Current	4A											

INDUCED POLARIZATION SENDER NOTES

Project: Cuprite Line: 6NW Date: 8 July 71

Send	1-2											
Receive	26-24	24-22	22-20	20-18	18-16	16-14	14-12	12-10	10-8	8-6	6-4	4-2
Time												
Range	370	370	370	370	370	370	370	370	370	370	370	370
Current	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A
Send	1-2											
Receive	2-0											
Time												
Range	370											
Current	4A											

cal 2A - 1-2

INDUCED POLARIZATION SENDER NOTES

project: Cupsite Line: 4.5 NW Date: 8 Jul. 71

Send	1-2	→										
Receive	0-2	2-4	4-6	6-8	8-10	10-12	12-14	14-16	16-18	18-20	20-22	22-24
Time												
Range	370	370	370	370	370	370	370	370	370	370	370	370
Current	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A
Send	1-2											
Receive	24-26											
Time												
Range	370											
Current	4A											

Y = 0.283
I = 4

Short Dipole

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT 624-71
LINE 8.50W HALF ____ SP. 1 DATE 7-7-

PAGE 1

SEND	1-2	→								
RECEIVE	26-24	24-22	22-20	20-18	18-16	16-14	14-12	12-10		
RANGE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
DC 1										
DC 2	1.7	2.1	2.2	2.0	1.8	2.0	2.6	3.2		
DC 3 X	0.216	0.150	0.083	0.0166	0.050	0.117	0.183	0.250		
DC 4	0.508	0.535	0.552	0.558	0.557	0.543	0.516	0.487		
DC 5 DFG	1.9	2.3	2.4	2.2	2.6	2.2	2.8	3.3		
DC 6 P/2π	479.1	511.6	519.9	442.5	415.1	332.8	395.6	381		
DC 7 MCF	4.0	4.5	4.6	5.0	4.8	6.6	7.1	8.7		
DC 8										
DC AVG.										
AC 1	79.8	80.6	79.7	66.9	63.0	51.7	64.3	65.3		
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	+0.2		
AC AVG.										
S.P.	+1.9	+14.7	-5.4	-1.4	+12.6	-3.7	+1.8	+2.6		
AC NOISE										
POT RES.										

short dipole

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT 624-71
LINE 8.5 HALF SW SP. 1 DATE 77

SEND	1-2				→					CAL
RECEIVE	10-8	8-6	6-4	4-2	2-0.0					1-2
RANGE	1.0	1.0	1.0	1.0	10.					10.
DC 1										
DC 2	3.1	1.9	2.6	3.1	3.2					
DC 3 X	0.317	0.383	0.450	0.516	0.583					1.0-0.2
DC 4 (X)	0.448	0.405	0.362	0.325	0.300					0.3-0.2
DC 5 DFE	3.3	2.1	2.8	3.3	3.5					0.1-0.0
DC 6 ρ/m	373	349.1	365.0	408.1	414.1					
DC 7 MCE	8.8	6.0	10.6	8.1	8.5					
DC 8										
DC AVG.										
AC 1	69.5	72.8	61.4	104.8	115.					
AC 2	0.0	0.0	0.0	+0.2	0.0					194.
AC AVG.										0.0
S.P.	+0.9	+0.7	+13.6	+27.7	+27.8					
AC NOISE			(N) G. Force ≈ 5W			0.0 ≈ 200' S of Base				on MAG
POT RES.						SURVEY				

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

short dipole

PROJECT 624-71
LINE 6.NW HALF SW SP. 1 DATE 2-7

SEND	Ø-2									
RECEIVE	0-2	2-4	4-6	6-8	8-10	10-12	12-14	14-16	16-18	18-20
RANGE	10,	1.0								
DC 1										
DC 2	2.4	2.4								
DC 3										
DC 4										
DC 5										
DC 6										
DC 7										
DC 8										
DC AVG.										
AC 1	123.	86.7								
AC 2	0.0	0.0								
AC AVG.										
S.P.	+23.3	-1.5								
AC NOISE										
POT RES.										

INDUCED POLARIZATION SENDER NOTES

Project: 624 Line: 6 NW Date: July 7

Send	1-2	→										
Receive	0-2	2-4	4-6	6-8	8-10	10-12	12-14	14-16	16-18	18-20	20-22	22-24
Time												
Range V	480	480										
Current	4	4										
Send	1-2											
Receive	24-26											
Time												
Range V												
Current												

INDUCED POLARIZATION SENDER NOTES

Project: 624 Line: 8.5 NW Date: July 7

Send	1-2	→										
Receive	26·24	24·22	22·20	20·18	18·16	16·14	14·12	12·10	10·8	8-6	6-4	4-2
~~Time~~												
Range V	480	480	480	480	480	480	480	480	480	480	480	480
Current	4	4	4	4	4	4	4	4	4	4	4	4
Send	1-2											
Receive	2-0											
~~Time~~												
Range V	480											
Current	4											

Y = 0.5 2a = 100' I = 3.5A

PAGE 1

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT 624 Cuprite
LINE 25 NW HALF W SP. 1 DATE 29 June

SEND										
RECEIVE	CAL 1	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9
RANGE	10	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.0	0.1
DC 1	-.1	+1.5	1.7	1.5	1.5	1.5	1.6	1.4	1.7	1.5
DC 2		0.02	0.04	0.06	0.08	0.10	0.12	0.14	0.16	0.18
DC 3		0.70	0.70	0.70	0.69	0.69	0.69	0.69	0.68	0.68
DC 4										
DC 5		335	505	484	421	430	327	556	596	471
DC 6		1.6	1.8	1.6	1.6	1.5	1.7	1.5	1.8	1.6
DC 7										
DC 8 MVT		4.8	3.6	3.3	3.8	3.5	5.2	2.7	3.0	3.4
DC AVG.										
AC 1	194	6.39	9.63	9.25	8.15	8.34	6.32	10.79	11.7	9.25
AC 2	0.0	0.0	0.0	0.0	0.0	+0.2	0.0	0.0	0.0	0.0
AC AVG.										
S.P.		+1.0	+9.1	+15.4	+13.2	+26.8	-14.3	+8.4	+9.9	+4.8
AC NOISE										
POT RES.		18K	30K	60K	70K	88K	110K	62K	80K	110K

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT _____
LINE 25NW HALF W SP. ____ DATE 6/29

SEND									Top of hill	
RECEIVE	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-20
RANGE	0.1	0.1	1.0	0.1	0.1	1.0	1.0	0.1	0.1	1.0
DC 1	1.3	1.6	2.1	1.3	1.4	1.8	1.9	1.4	2.0	2.1
DC 2	0.20	0.22	0.26	0.26	0.28	0.30	0.32	0.34	0.36	0.38
DC 3 GXT	0.67	0.66	0.66	0.65	0.64	0.63	0.63	0.62	0.61	0.60
DC 4										
DC 5 PBM	456	457	566	418	400	605	814	486	323	636
DC 6 PFE	1.4	1.6	2.2	1.4	1.5	1.9	2.0	1.5	2.0	2.1
DC 7						~~2.2~~	~~2.5~~	~~3.1~~	~~6.2~~	~~3.3~~
DC 8	3.1	3.5	3.9	3.3	3.8	3.2	2.5	3.1	6.2	3.3
DC AVG.										
AC 1	9.12	9.25	11.4	8.62	8.36	12.8	17.2	10.48	7.06	14.1
AC 2	+0.1	+0.1	0.0	0.0	+0.1	0.0	0.0	0.0	+0.2	+0.2
AC AVG.										
S.P.	+13.9	+3.0	0	+9.0	+4.3	+5.2	-7.7	+17.8	-43.9	+23.4
AC NOISE										
POT RES.	100K	120K	120K	42K	33K	160K	38K	82K	120K	140K

>5 Line 0
24
23
24

SP only 25 → 20 NW

PAGE 3

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT _____
LINE N>5E N>0E HALF _____ SP. _____ DATE _____

SEND										
RECEIVE	25-24	24-23	23-22	22-21	21-20					
RANGE										
DC 1										
DC 2										
DC 3										
DC 4										
DC 5										
DC 6										
DC 7										
DC 8										
DC AVG.										
AC 1										
AC 2										
AC AVG.										
S.P.	-12.2	+9.2	+6.2	+17.5	0					
AC NOISE										
POT RES.	60K	65K	93K	70K	40K					

$\gamma = 0.4$

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT _____
LINE 20N HALF W SP. ____ DATE 6/28

SEND										
RECEIVE	20-19	19-18	18-17	17-16	16-15	15-14	14-13	13-12	12-11	11-10
RANGE	0.1	1.0	1.0	1.0	1.0	1.0	1.0	0.1	0.1	1.0
DC 1	1.8	1.7	1.5	1.8	2.0	1.8	1.8	1.7	1.7	2.0
DC 2 ✓	0.38	0.36	0.34	0.32	0.30	0.28	0.26	0.24	0.22	0.20
DC 3 G	0.50	0.51	0.52	0.53	0.54	0.55	0.56	0.57	0.58	0.59
DC 4										
DC 5	370	459	393	636	617	532	450	382	382	501
DC 6 PFE	1.9	1.8	1.5	1.8	2.1	1.8	1.9	1.8	1.7	2.0
DC 7	5.13	3.92	3.82	2.83	3.40	3.57	4.2	4.6	4.44	3.99
DC 8										
DC AVG.										
AC 1	9.87	12.0	10.1	16.0	15.2	12.9	10.7	9.8	8.8	11.3
AC 2	0.0	0.0	+0.2	+0.2	0.0	0.0	0.0	0.0	+0.2	+0.2
AC AVG.										
S.P.	+4.0	+6.0	+7.1	-2.6	+17.0	-9.5	+2.9	+35.7	-11.8	-26.9
AC NOISE										
POT RES.	73K	85K	80K	110K	87K	92K	66K	34K	160K	220K

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

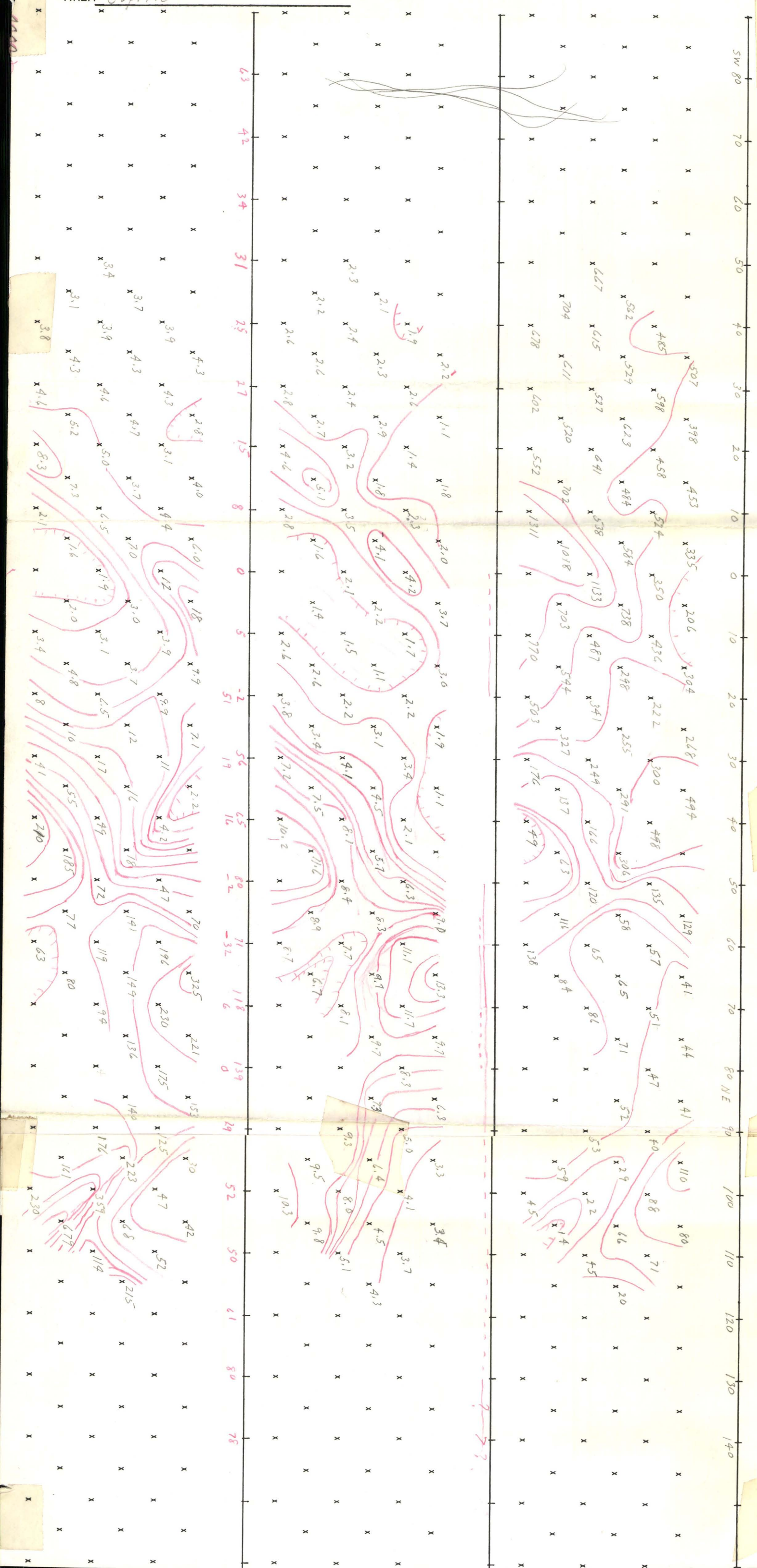
PROJECT _____
LINE >>NW HALF W SP. ____ DATE ____

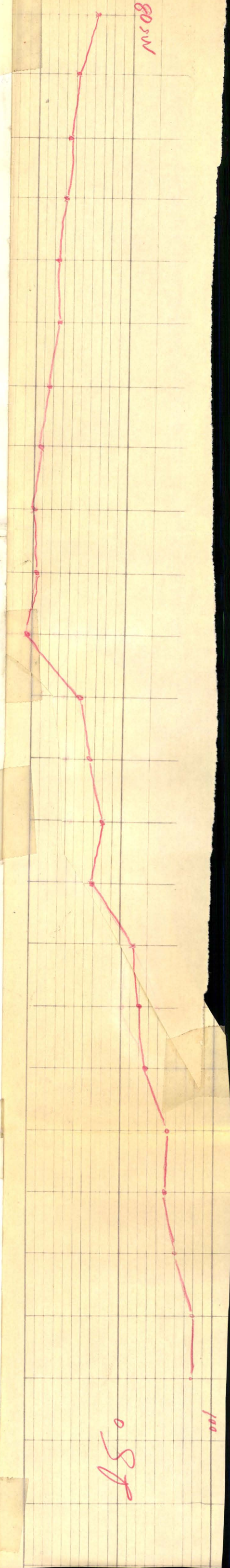
SEND										
RECEIVE	10-9	9-8	8-7	7-6	6-5	5-4	4-3	3-2	2-1	1-0
RANGE	1.0	1.0	1.0	1.0	0.1	0.1	1.0	0.1	1.0	0.1
DC 1	1.5	1.5	1.7	1.9	1.2	1.6	1.9	1.5	1.5	1.6
DC 2	0.18	0.16	0.14	0.12	0.10	0.08	0.06	0.04	0.03	0.02
DC 3	0.59	0.60	0.61	0.61	0.62	0.62	0.62	0.62	0.63	0.63
DC 4										
DC 5	450	462	521	477	423	325	540	313	481	346.8
DC 6 DFE	1.6	1.6	1.8	2.0	1.3	1.7	2.0	1.6	1.6	1.7
DC 7	3.55	3.46	3.45	4.20	3.08	5.23	3.7	5.12	3.3	4.9
DC 8										
DC AVG.										
AC 1	10.2	10.3	11.4	10.4	5.14	7.0	11.6	6.74	10.2	7.35
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.	+10.2	+12.7	-3.3	+43.5	+63.6	-66.5	+39.8	-16.8	-19.3	+12.6
AC NOISE										
POT RES.	260K	150K	21K	71K	75K	33K	75K	60K	130K	98K

JOB# 624 LINE# 2 SP 142 a = 1000 LOOKING N 26 W

CLIENT North American Mines DATE April 27, 71 FREQUENCIES 3.0 & 0.3 Hz

AREA Cuprite





TR.MK. REG. U.S. PAT. OFF.

sec C					DIST	
End C	NAM	22			295	✓
SE	"	22	SW NAM	23	590	✓
End C	"	23			885	✓
SE	"	23	SW NAM	24	1280	✓
End C	"	24			1475	✓
SE	"	24	SW NAM	25	1770	✓
End C	"	25			2065	✓
SE	"	25	SW	26	2360	✓
End C	"	26			2655	✓
SE	"	26			2950	✓
SW	"	30	SE NAM	31	1490	✓
SE	"	31			2980	✓

SW 4

SE 317

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Post	Ft.	
NW22 SW14	0	0
SCE 14 NCE22	295	295
14,15,22,23	490	590
NCE23 SCE15	785	785
15 SE, 23 NE 24 NW 16 SW		
	1080	
NCE24 SCE16	1375	
NE24 SE16 SW17 NW25		
~~NCE25 SE17~~	1670	
NCE25 SCE17	1965	
NE25, SE17, SW18 NW26		
	2250	
NCE26 SCE18	2545	
SE18 NE26	2830	

#2

	0	
NCE #14	295	
NE #14 NW #15	390	

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LOCATION MON-#15

was NO Claim notice on it

Chaining Notes

Started 90° 12 min 14 sec

Point		Feet
NW #1		0
WCE # 1	295'	295
NW# 2 SW# 1	295'	590
WCE # 2	295'	885
SW2 NW3	295'	1180
WCE # 3	295'	1475
SW3 NW4	295'	1760
WCE # 4	295	2055
SW# 4	295	2360

turn 90° East
Chained to a point
1000' East of SWC #4
300'

SECOR	NAM # 4	190	1490
TURN	CORNER	NORTH	
	89° 54'	40"	
ECE	NAM # 4	295'	
WCE	NAM # 9		
SEC	NAM 3	295'	
NEC	NAM 4		
NWC	NAM 9		
		295'	
ECE	NAM # 3		
NEC	NAM 3	295	
SEC	NAM 2		
ECE	NAM # 2	295	
SEC	NAM # 1	295	
NEC	NAM 2	295'	
NEC	NAM 1		

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N

SC E
26

295' X 1/4 Cor

EC
25

Loc
21

SW 31
SE 30

295'

fence
EC 24

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18 July 71

G.H.N.

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Began SEC NAM #9		
Taped SOUTH		
WCE NAM #10	295	
Loc Mon 230' East		
SWC NAM #10		
Turn Corner Chain East		
	300	
	300	600
	300	900
	300	1200
SEC NAM #10	290	1490
Turn Corner North		
ECE NAM #10	295	
NEC NAM #10	295	
SEC NAM #9	295	
ECE NAM #9	295	
NEC NAM #9		
Turn Corner West,		
Chain West	300	
	300	600
	300	900
	300	1200
NWCOR NAM #9	290	1490

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17 July 11
G. HN

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SURVEY NOTES

Set up on NW cor NAM #1

Shot East along Section Line. Set 00'0"-
Swung 90° 12' 40" South, Established Line for West boundry of claims NAM #1, 2, 3 & 4,
Chained South and Set corners & Center ends on Line,
Set Loc mon 50' East of Line, Except No #3
Ran To SW cor NAM #4
Turned corner 89° 47' 20" and Ran 1000' East,
17 July
Began 1000' East continued To 1490' To SE cor NAM #4
Turn Corner

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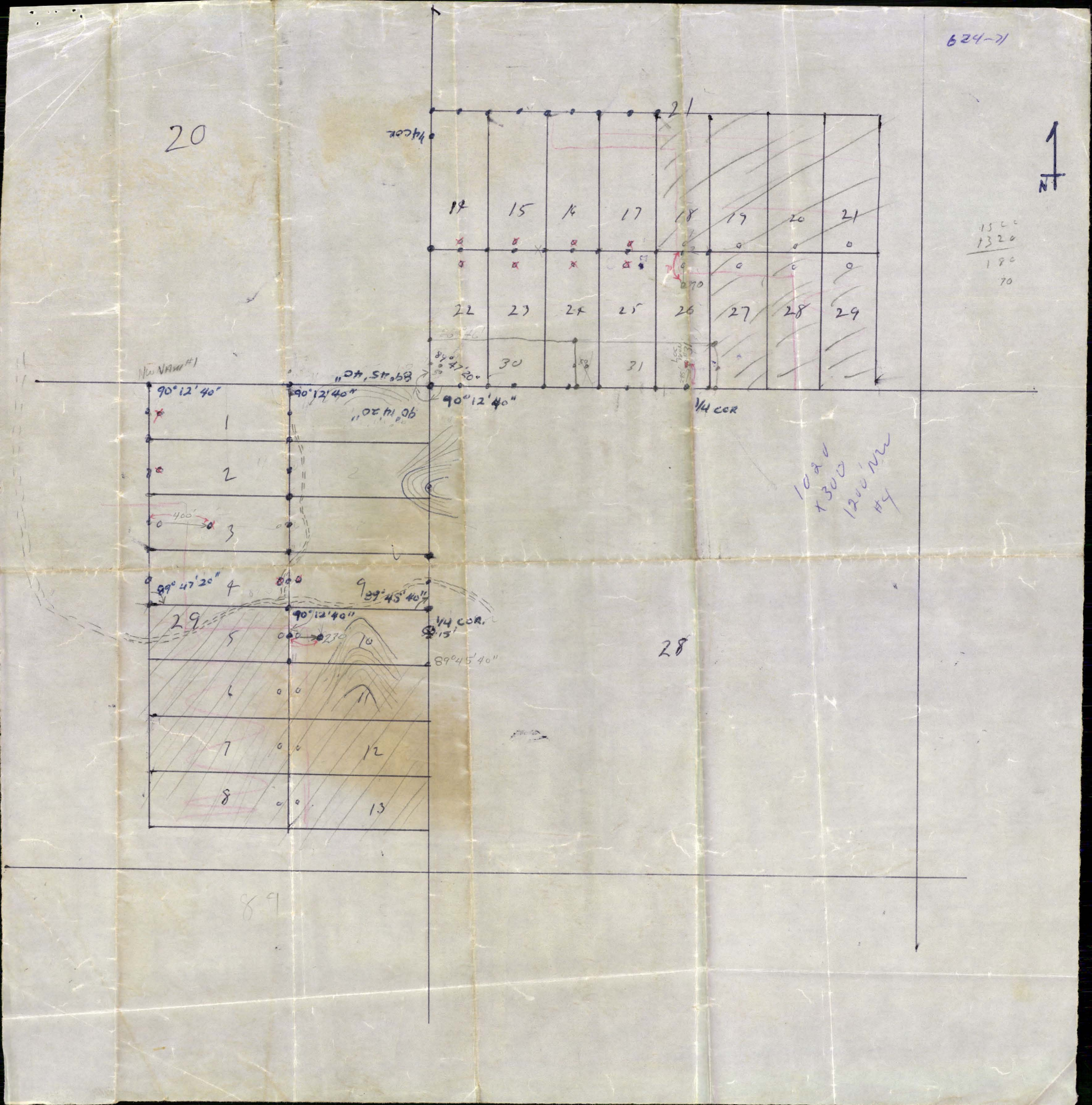
624-71
20
21
14 COR
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
NEW NAM #1
90°12'40"
89°45'40"
89°47'20"
1/4 COR
1
2
3
4
5
6
7
8
9
10
11
12
13
29
400'
230
1/4 COR.
15'
28
89
N

JOB 624, LINE 2, Spread 1, NE ½, 4/27/71 1000.

624

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Cuprite Mine
LINE 2 HALF NE SP. 1 DATE 4-28-87

SEND	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	
RECEIVE	0-10NE	→	10-20NE	→		20-30NE	→		→	
RANGE	10	10	10	1.0	1.0	10	10	1.0	1.0	
DC 1										
DC 2	1.8	0.8	3.5	4.0	3.9	2.8	1.5	2.0	1.9	
DC 3										
DC 4 On	3	→					4	4	4	
DC 5 #	1	2	3	4	5	6	7	8	9	
DC 6 M	1	2	1	2	3	1	2	3	4	
DC 7										
DC 8										
DC AVG.										
AC 1	322.	127.	195.	82.3	55.0	289.	140.	94.3	72.5	
AC 2	—	+0.1	—	—	—	—	—	—	—	
AC AVG.										
S.P.	+4.7	→	-6.8	→		+58.1	→		→	
AC NOISE										
POT RES.	5K	→	14K	→		10K	→		→	

624

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Cuprite Mine
LINE 2 HALF NE SP. 1 DATE 4-28-71

SEND	5-6	4-5	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3
RECEIVE	30-40VE	→	→	→	→	40-50VE	→	→	→	→
RANGE	10	1.0	1.0	1.0	1.0	10	1.0	1.0	1.0	1.0
DC 1										
DC 2	1.7	2.0	0.9	1.3	1.2	0.9	3.2	2.9	2.0	2.4
DC 3										
DC 4 Line	2	3	4	4	4	2	2	3	4	4
DC 5 #	10	11	12	13	14	15	16	17	18	19
DC 6 #	1	2	3	4	5	1	2	3	4	5
DC 7										
DC 8										
DC AVG.										
AC 1	172.	53.2	38.5	31.4	25.9	319.	47.4	24.2	21.8	19.8
AC 2	–	–	–	–	–	–	–	–	–	–
AC AVG.										
S.P.	+9.3	→	→	→	→	+14.9	→	→	→	→
AC NOISE										
POT RES.	5K	→	→	→	→	8K	→	→	→	→

624

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Coprite Mine
LINE 2 HALF NE SP. 1 DATE 4-29-71

SEND	1-2	6-7	5-6	4-5	3-4	2-3	6-7	5-6	4-5	3-4
RECEIVE	40-50NE	50-60NE	→	→	→	→	60-70NE	→	→	→
RANGE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	0.1	0.1
DC 1										
DC 2	2.4	1.9	4.3	3.9	3.2	3.6	5.3	7.9	7.3	7.0
DC 3										
DC 4 Run	4	2	2	3	4	4	2	2	3	4
DC 5 #	20	21	22	23	24	25	26	27	28	29
DC 6 n	6	2	3	4	5	6	3	4	5	6
DC 7										
DC 8										
DC AVG.										
AC 1	17.5	29.7	18.2	11.7	11.8	11.3	19.3	5.01	3.56	3.82
AC 2	—	—	—	—	—	—	—	—	—	—
AC AVG.										
S.P.		-9.4	→	→	→	→	+46.9	→	→	→
AC NOISE										
POT RES.		6K	→	→	→	→	5K	→	→	→

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Cuprite Mine
LINE 2 HALF NE SP. 1 DATE 4-28-71

SEND		6-7	5-6	4-5		CAL				
RECEIVE		70-80 NE	→	→						
RANGE		0.1	0.1	0.1						
DC 1										
DC 2		8.4	11.4	10.0		-0.2				
DC 3										
DC 4 Cu		2	2	4		2				
DC 5 H		30	31	32		1				
DC 6 N		4	5	6						
DC 7 Fe		107	55	43						
DC 8										
DC AVG.										
AC 1		3.59	1.05	1.03		196.				
AC 2		—	—	—		0.0				
AC AVG.										
S.P.		2K →	→	→		3.0				
AC NOISE						0.3				
POT RES.		+21.2 →	→	→						

#624

INDUCED POLARIZATION SENDER NOTES

Project: Cuprite Mine Line: 2 NE ½ Spd. 1 Date: 4-28-71

Send	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	5-6	4-5	3-4
Receive	0-10NE	→	10-20NE	→		20-30NE	→			30-40NE	→	
Time	520	360	640	520	360	570	860	700	480	800	570	860
Range	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low
Current	3.0	3.0	3.0	3.0	3.0	3.0	4.0	4.0	4.0	2.0	3.0	4.0
Send	2-3	1-2	6-7	5-6	4-5	3-4	2-3	1-2	6-7	5-6	4-5	3-4
Receive	30-40NE	→	40-50NE	→				→	50-60NE	→		
Time	700	480	700 ~~800~~	800	570	860	700	480	700	800	570	850
Range	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low
Current	4.0	4.0	2.0	2.0	3.0	4.0	4.0	4.0	2.0	2.0	3.0	4.0

#624

INDUCED POLARIZATION SENDER NOTES

Project: CUPRITE Line: 2 NE½ Spl. 1 Date: 4-28-71

Send	2-3	1-2	6-7	5-6	4-5	3-4	6-7	5-6	4-5			
Receive	50-60NE →		60-70NE →				70-80NE →					
Time	700		700	800	560	850	700	800	760			
Range	Low		Low	Low	Low	Low	Low	Low	Low			
Current	4.0		2.0	2.0	3.0	4.0	2.0	2.0	4.0			
Send												
Receive												
Time												
Range												
Current												

Job 624, Line 2, Spread 1, SW ½, 4/28/71 1000.

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT 624# CUPRITE
LINE 2 HALF SW SP. 1 DATE 4-28

PAGE 1

SEND	5-6	4-5	3-4	4-5	5-6	6-7	2-3	3-4	4-5	5-6
RECEIVE	0-10SW	10-20.	20-30SW	→			30-40SW	→		
RANGE										
DC 1			10.	10.	1.0	1.0	10.	10.	1.0	1.0
DC 2										
DC 3			1.6	2.1	3.9	1.9	0.9	1.2	1.6	3.3
DC 4										
DC 5 Cm			3	3	2	2	3	3	3	2
DC 6 #			1	2	3	4	5	6	7	8
DC 7 n			1	2	3	4	1	2	3	4
DC 8										
DC AVG.										
AC 1			434.	124.	35.9	36.4	384.	110.	46.4	16.9
AC 2			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.	+7.7	+7.4	+11.7				-1.7			
AC NOISE							Un GF-	≈ 35.'	mesq.-wire down	
POT RES.							GF	≈ 39'	STeel post	

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT 624 - Cuprite

LINE 2 HALF 50 SP. 1 DATE 4-28

SEND	6-7	1-2	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4
RECEIVE	30-40	40-50	5-				7	50-60		
RANGE	1.0	10.	10.	1.0	1.0	1.0	1.0	10.	1.0	1.0
DC 1										
DC 2										2.2
DC 3	1.4	2.0	2.4	2.7	3.0	4.9	2.6	1.7	2.1	~~2.4~~
DC 4										2.5
DC 5 Cur	2	3	3	3	2	2	2	3	3	3
DC 6 #	9	10	11	12	13	14	15	16	17	18
DC 7 n	5	1	2	3	4	5	6	2	3	4
DC 8										
DC AVG.										
AC 1	18.6	483.	142.	59.0	20.2	12.4	14.8	116.	50.4	~~39.1~~
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	~~0.0~~
AC AVG.										~~14.1~~
S.P.		+5.8						+3.5		25.1
AC NOISE										0.0
POT RES.										

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT 624 + Cuprite
LINE 2 HALF SW SP. 1 DATE 4-28

PAGE 3

SEND	4-5	5-6	1-2	2-3	3-4	4-5	1-2	2-3	3-4	CAL
RECEIVE	50-60	→	60-70	→	→	→	70-80	→	→	4-5
RANGE	1.0	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	10.
DC 1										
DC 2	~~2.4~~	4.4	1.9	2.2	2.4	2.6	2.1	2.0	2.4	~~-0.2~~
DC 3	2.5	×								-0.2
DC 4										
DC 5 m	3	2	3	3	3	3	3	3	3	2
DC 6 #	19	20	21	22	23	24	25	26	27	1
DC 7 n	5	6	3	4	5	6	4	5	6	
DC 8										
DC AVG.										
AC 1	~~14.2~~	6.12	53.7	29.3	16.6	10.2	31.8	19.2	11.5	19.5
AC 2	~~0.0~~	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.	14.1		+7.6							3.0
S.P.	0.0						+20.8			~~19.6~~
AC NOISE										~~0.0~~
POT RES.										0.3

INDUCED POLARIZATION SENDER NOTES

Project: 624 Copritc Line: 2 Sp1 SW½ Date: April 28

Send	3-4	4-5	5-6	6-7	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4
Receive	20-30N	—	—	—	30-90	—	—	—	—	40-50	—	—
Time												
Range	780	710	800	700	510	780	700	790	700	340	500	770
Current	3.0	3.0	2.0	2.0	3.0	3.0	3.0	2.0	2.0	3.0	3.0	3.0

Send	4-5	5-6	6-7	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5
Receive	40-50	—	—	50-60	—	—	—	—	60-70	—	—	—
Time												
Range	560	790	700	350	510	[illegible]	[illegible]	790	350	510	770	700
Current	2.0	2.0	2.0	3.0	3.0	770 3.0	700 3.0	2.0	3.0	3.0	3.0	3.0

3.0 6-100 Hg pot may be noisy!

INDUCED POLARIZATION SENDER NOTES

Project: _____ Line: _____ Date: _____

Send												
Receive												
Time												
Range												
Current												
Send						1-2	2-3	3-4				Cal
Receive						70-80	—	—				4-5
Time												
Range						790	510	770				480
Current						3.0	3.0	3.0				2.0

JOB 624 LINE 2 SPREAD 1 NORTHEAST 1/2 4/27/71 1000 FEET=DIPOLE LENGTH
CAL GROUP NO. 1

CAL CUR	PFE	AC1	AC2	AC FREQ	DC FREQ	PFE CAL	RHO CAL
2.000	-.20	196.000	0.00	3.00	.30	-.2000	1.0204

COMPUTED DATA									FIELD DATA					
POINT NO.	N	RHO	PFE	MCF	CCPFE	CCMCF	CPFE		PFE	CUR	PT.	N	AC1	AC2
1	1	335.14	2.00	6.0	2.00	6.0	0.00	**	1.80	3.00	1	1	322.000	0.00
2	2	523.55	.95	1.8	.95	1.8	0.00	**	.80	3.00	2	2	127.000	.10
3	1	206.34	3.70	17.9	3.70	17.9	0.00	**	3.50	3.00	3	1	195.000	0.00
4	2	350.03	4.20	12.0	4.20	12.0	0.00	**	4.00	3.00	4	2	82.300	0.00
5	3	584.23	4.10	7.0	4.10	7.0	0.00	**	3.90	3.00	5	3	55.000	0.00
6	1	303.74	3.00	9.9	3.00	9.9	0.00	**	2.80	3.00	6	1	289.000	0.00
7	2	435.86	1.70	3.9	1.70	3.9	0.00	**	1.50	4.00	7	2	140.000	0.00
8	3	737.56	2.20	3.0	2.20	3.0	0.00	**	2.00	4.00	8	3	94.300	0.00
9	4	1133.00	2.10	1.9	2.10	1.9	0.00	**	1.90	4.00	9	4	72.500	0.00
10	1	268.27	1.90	7.1	1.90	7.1	0.00	**	1.70	2.00	10	1	172.000	0.00
11	2	221.92	2.20	9.9	2.11	9.5	.09	**	2.00	3.00	11	2	53.200	0.00
12	3	297.88	1.10	3.7	.96	3.2	.14	**	.90	4.00	12	3	38.500	0.00
13	4	487.82	1.50	3.1	1.37	2.8	.13	**	1.30	4.00	13	4	31.400	0.00
14	5	703.46	1.40	2.0	1.26	1.8	.14	**	1.20	4.00	14	5	25.900	0.00
15	1	493.64	1.10	2.2	1.10	2.2	0.00	**	.90	2.00	15	1	319.000	0.00
16	2	300.07	3.40	11.3	3.40	11.3	0.00	**	3.20	2.00	16	2	47.400	0.00
17	3	254.59	3.10	12.2	2.93	11.5	.17	**	2.90	3.00	17	3	24.200	0.00
18	4	341.01	2.20	6.5	1.98	5.8	.22	**	2.00	4.00	18	4	21.800	0.00
19	5	544.15	2.60	4.8	2.41	4.4	.19	**	2.40	4.00	19	5	19.800	0.00
20	6	769.50	2.60	3.4	2.41	3.1	.19	**	2.40	4.00	20	6	17.500	0.00
21	2	498.21	2.10	4.2	2.10	4.2	0.00	**	1.90	2.00	21	2	79.700	0.00
22	3	291.11	4.50	15.5	4.36	15.0	.14	**	4.30	2.00	22	3	18.200	0.00
23	4	248.57	4.10	16.5	3.76	15.1	.34	**	3.90	3.00	23	4	11.700	0.00
24	5	326.82	3.40	10.4	3.01	9.2	.39	**	3.20	4.00	24	5	11.800	0.00
25	6	502.69	3.80	7.6	3.47	6.9	.33	**	3.60	4.00	25	6	11.300	0.00
26	3	311.66	5.50	17.6	5.37	17.2	.13	**	5.30	2.00	26	3	19.300	0.00
27	4	165.79	8.10	48.9	7.50	45.3	.60	**	7.90	2.00	27	4	5.010	0.00
28	5	136.68	7.50	54.9	6.23	45.6	1.27	**	7.30	3.00	28	5	3.560	0.00
29	6	175.50	7.20	41.0	5.82	33.2	1.38	**	7.00	4.00	29	6	3.820	0.00
30	4	119.35	8.60	72.1	7.67	64.3	.93	**	8.40	2.00	30	4	3.590	0.00
31	5	62.77	11.60	184.8	8.14	129.7	3.46	**	11.40	2.00	31	5	1.050	0.00
32	6	48.65	10.20	209.7	3.21	66.0	6.99	**	10.00	4.00	32	6	1.030	0.00

JOB 624 LINE 2 SPREAD 1 SW 1/2 4/28/71 1000 FEET=DIPOLE LENGTH
CAL GROUP NO. 1

CAL CUR	PFE	AC1	AC2	AC FREQ	DC FREQ	PFE CAL	RHO CAL
2.000	-.20	195.000	0.00	3.00	.30	-.2000	1.0256

COMPUTED DATA									FIELD DATA					
POINT NO.	N	RHO	PFE	MCF	CCPFE	CCMCF	CPFE		PFE	CUR	PT.	N	AC1	AC2
1	1	453.14	1.80	4.0	1.80	4.0	0.00	**	1.60	3.00	1	1	434.000	0.00
2	2	520.42	2.30	4.4	2.30	4.4	0.00	**	2.10	3.00	2	2	124.000	0.00
3	3	574.95	4.10	7.1	4.10	7.1	0.00	**	3.90	2.00	3	3	35.900	0.00
4	4	1143.52	2.10	1.8	2.10	1.8	0.00	**	1.90	2.00	4	4	36.400	0.00
5	1	398.18	1.10	2.8	1.10	2.8	0.00	**	.90	3.00	5	1	384.000	0.00
6	2	457.60	1.40	3.1	1.40	3.1	0.00	**	1.20	3.00	6	2	110.000	0.00
7	3	484.46	1.80	3.7	1.80	3.7	0.00	**	1.60	3.00	7	3	46.400	0.00
8	4	538.20	3.50	6.5	3.38	6.3	.12	**	3.30	2.00	8	4	16.900	0.00
9	5	1017.56	1.60	1.6	1.52	1.5	.08	**	1.40	2.00	9	5	18.600	0.00
10	1	506.28	2.20	4.3	2.20	4.3	0.00	**	2.00	3.00	10	1	483.000	0.00
11	2	597.71	2.60	4.3	2.60	4.3	0.00	**	2.40	3.00	11	2	142.000	0.00
12	3	622.68	2.90	4.7	2.90	4.7	0.00	**	2.70	3.00	12	3	59.000	0.00
13	4	641.43	3.20	5.0	3.11	4.8	.09	**	3.00	2.00	13	4	20.200	0.00
14	5	701.74	5.10	7.3	4.96	7.1	.14	**	4.90	2.00	14	5	12.400	0.00
15	6	1310.78	2.80	2.1	2.71	2.1	.09	**	2.60	2.00	15	6	14.800	0.00
16	2	484.94	1.90	3.9	1.90	3.9	0.00	**	1.70	3.00	16	2	116.000	0.00
17	3	528.81	2.30	4.3	2.30	4.3	0.00	**	2.10	3.00	17	3	50.400	0.00
18	4	527.23	2.40	4.6	2.28	4.3	.12	**	2.20	3.00	18	4	25.100	0.00
19	5	519.82	2.70	5.2	2.49	4.8	.21	**	2.50	3.00	19	5	14.100	0.00
20	6	551.52	4.60	8.3	4.31	7.8	.29	**	4.40	2.00	20	6	6.120	0.00
21	3	562.34	2.10	3.7	2.10	3.7	0.00	**	1.90	3.00	21	3	53.700	0.00
22	4	615.45	2.40	3.9	2.30	3.7	.10	**	2.20	3.00	22	4	29.300	0.00
23	5	611.39	2.60	4.3	2.44	4.0	.16	**	2.40	3.00	23	5	16.600	0.00
24	6	602.25	2.80	4.6	2.54	4.2	.26	**	2.60	3.00	24	6	10.200	0.00
25	4	667.31	2.30	3.4	2.21	3.3	.09	**	2.10	3.00	25	4	31.800	0.00
26	5	704.39	2.20	3.1	2.06	2.9	.14	**	2.00	3.00	26	5	19.200	0.00
27	6	677.69	2.60	3.8	2.38	3.5	.22	**	2.40	3.00	27	6	11.500	0.00

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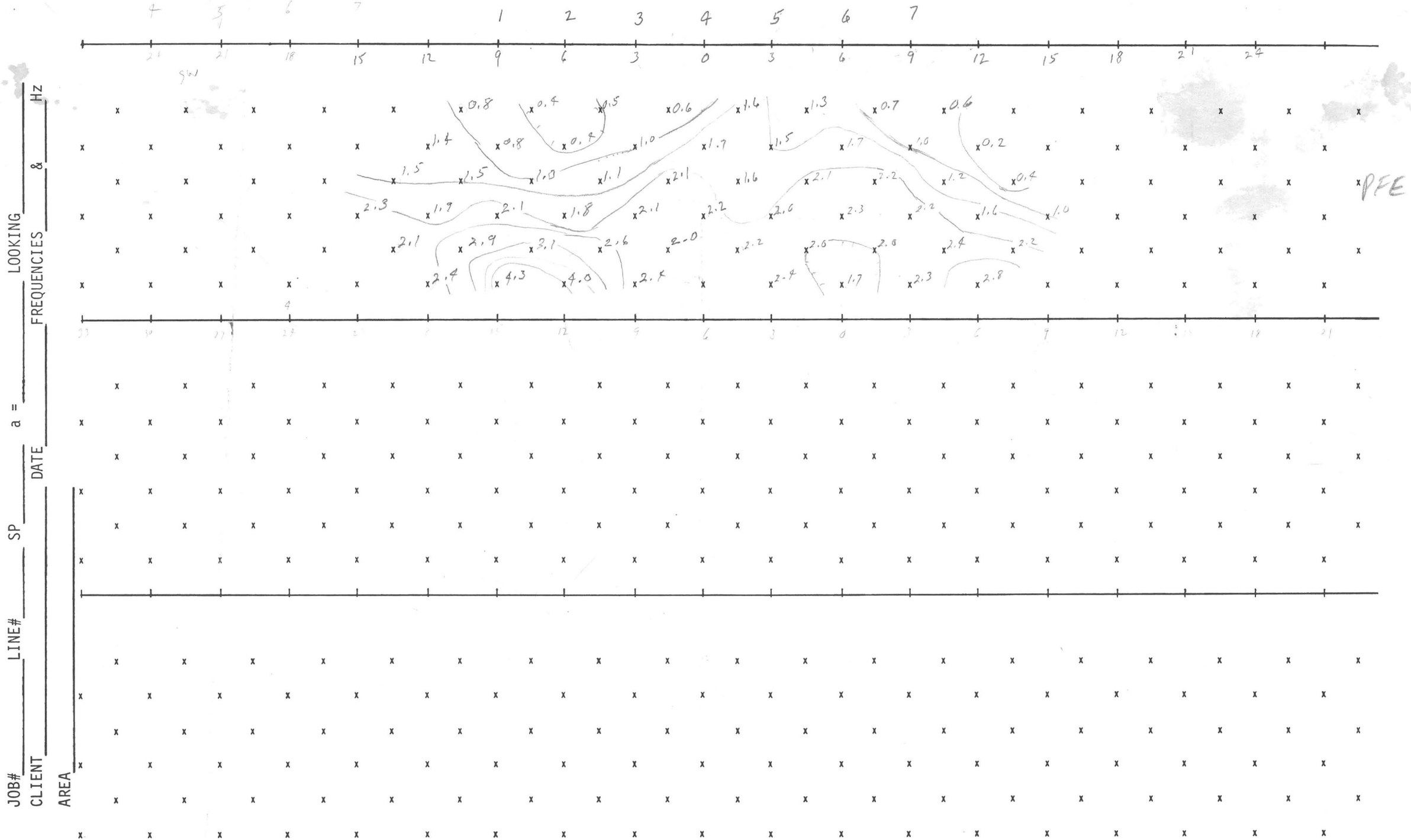
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4/21/71 1000

JOB 624

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT Cuprite Mine

LINE 1 HALF NE SP. 1 DATE 4-21-71

PAGE 1

SEND	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	5-6
RECEIVE	0-10NE	→	10-20NE	→	→	20-30NE	→	→	→	30-40NE
RANGE	10	1.0	10	10	1.0	10	10	1.0	1.0	10
DC 1										
DC 2	1.6	1.9	1.2	1.7	2.0	2.6	2.3	3.2	3.2	1.7
DC 3										
DC 4 CUR	4	→	→	→	→	3	4	→	→	3
DC 5 #	1	2	3	4	5	6	7	8	9	10
DC 6 ?	1	2	1	2	3	1	2	3	4	1
DC 7										
DC 8										
DC AVG.										
AC 1	243	89.1	905	145	54.5	488	165	36.3	16.7	518
AC 2	-0.0	—	—	—	—	—	—	—	—	—
AC AVG.										
S.P.	+2.6	→	+6.8	→	→	+35	→	→	→	-26.1
AC NOISE										
POT RES.	3K	→	OK			5K	→	→	→	~~-26.1~~

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Cuprite Mine
LINE 1 HALF NE SP. 1 DATE 4-21-71

SEND	4-5	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3	1-2
RECEIVE	30-40NE	→	→	→	40-50NE	→	→	→	→	→
RANGE	10	1.0	1.0	0.1	10	10	1.0	1.0	1.0	0.1
DC 1										
DC 2	1.1	1.4	2.4	2.4	2.0	1.7	1.6	1.7	2.7	2.8
DC 3										
DC 4 CUR	3	4	→	→	3	→	→	4	→	→
DC 5 #	11	12	13	14	15	16	17	18	19	20
DC 6 "	2	3	4	5	1	2	3	4	5	6
DC 7										
DC 8										
DC AVG.										
AC 1	121	61.4	17.8	9.97	24.0 A	128	50.4	34.7	12.1	7.41
AC 2	—	—	—	—	—	—	—	—	—	—
AC AVG.										
S.P.					+24.8	→	→	→	→	→
AC NOISE										
POT RES.					5K	→	→	→	→	→

21.5 10.7

Check 619 contacts 105-168

8.2 2.5 3.7

PAGE 3

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT Cuprite Mine

LINE 1 HALF NE SP. 1 DATE 4-21-71

SEND	6-7	5-6	4-5	3-4	2-3	6-7	5-6	4-5	3-4	CAL
RECEIVE	50-60NE	→	→	→	→	60-70NE	→	→	→	10
RANGE	1.0	1.0	1.0	1.0	0.1	1.0	1.0	1.0	1.0	
DC 1										-0.2
DC 2 0.3	4.1	3.2	3.0	2.9	3.5	5.4	4.1	4.0	3.7	
DC 3 1 amp 0.05	10.5 10.5 10.5					13.0 12.5 12.4 12.0				
DC 4 3 amp 0.05	11.0 10.5 11.2 10.2 11.5 10.0					12.0 13.7 12.5 12.8 12.5 14.0				
DC 5										
DC 6 0.1	3.	→	→	4	→	8.2 3	→	→	4	2
DC 7 1.0	21	22	23	24	25	0.5 26	27	28	29	1
DC 8	2	3	4	5	6	3	4	5	6	
DC AVG.	49.3									196
AC 1	49.6	42.7	21.3	16.8	6.32	29.5	34.2	19.6	16.5	0.0
AC 2	—	—	—	—	—	—	-0.1	—	—	
AC AVG.										3.0
S.P.	-13.0	→	→	→	→					0.3
AC NOISE										
POT RES.	OK	→	→	→	→					

Cont.

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Cuprite Mine
LINE 1 HALF NE SP. 1 DATE 4-21-71

PAGE 4

SEND		6-7	5-6	4-5						
RECEIVE		70-80NE →								
RANGE		1.0	1.0	1.0						
DC 1										
DC 2		7.4	6.0	5.6						
DC 3										
DC 4	.05	19.5 16.0 20.0 16.5								
DC 5		(17.9)								
DC 6 CVA		3								
DC 7 #		30	31	32						
DC 8 ?		4	5	6						
DC AVG.										
AC 1		11.7	15.5	9.28						
AC 2		–	–	-0.1						
AC AVG.										
S.P.		+12.1 →								
AC NOISE										
POT RES.		2K →								

INDUCED POLARIZATION SENDER NOTES

Project: Cuprite Line: 2 NE 1/2 Date: 4/22/71

Send	2-3	1-2	2-4	2-3	1-2	4-5	3-4	2-3	1-2	5-6	4-5	3-4
Receive	00-10	→	10-20	→		20-30	→			30-40	→	
Time												
Range	133x30	133x30	133.3x30	133.3x30	133.3x30	100x30	133.3x30	133.3x30	133.3x30	100x30	100x30	133.3x30
Current	4.0	4.0	4.0	4.0	4.0	3.0	4.0	4.0	4.0	3.0	3.0	4.0
Send	2-3	1-2	5-6	4-5	3-4	2-3	1-2	5-6	4-5	3-4	2-3	5-6
Receive	30-40	→	40-50	→			→	50-60	→			60-70
Time												
Range	133.3x30	133.3x30	100x30	100x30	133.3x30	133.3x30	133.3x30	100x30	100x30	133.3x30	133.3x30	100x30
Current	4.0	4.0	3.0	3.0	4.0	4.0	4.0	3.0	3.0	4.0	4.0	3.0
			6-7 3.0A					6-7 3.0				6-7 3.0

INDUCED POLARIZATION SENDER NOTES

Project: Cuprite Line: 1 NE 1/2 Date: 4/22/71

Send	4-5	3-4	5-6	4-5		6-7 Cal						
Receive	60-70 →		70-80 →									
Time												
Range	100x30	133x30	100x30	100x30		200x10						
Current	3.0	4.0	3.0	3.0		2.0						
Send			6-7 3.0									
Receive												
Time												
Range												
Current												

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Cuprite Mine
LINE 1 HALF SW SP. 1 DATE 4-22-71

SEND			3-4	2-3	3-4	4-5	5-6	6-7	1-2	2-3
RECEIVE	0-10SW	10-20SW	20-30SW	30-40SW	→	→	→	→	40-50SW	→
RANGE			10	10	10	1.0	1.0	1.0	10	10
DC 1										
DC 2			1.1	1.5	1.6	2.5	2.6	3.6	1.3	1.6
DC 3										
DC 4 Em			4	4	4	3	3	3	4	4
DC 5 #			33	34	35	36	37	38	39	40
DC 6 n			1	1	2	3	4	5	1	2
DC 7										
DC 8										
DC AVG.										
AC 1			279.	427.	128.	45.9	33.9	12.6	342.	130.
AC 2			—	—	—	—	—	—	—	—
AC AVG.										
S.P.	+20.5	+1.5	+18.6	+8.0	→	→	→	→	+13.6	→
AC NOISE										
POT RES.				6K	→	→	→	→	3K	→

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Cuprite Mine
LINE 1 HALF SW SP. 1 DATE 4-22-71

SEND	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5	5-6	
RECEIVE	40-50SW	→	→	→	50-60SW	→	→	→	→	
RANGE	1.0	1.0	1.0	0.1	1.0	1.0	1.0	1.0	1.0	
DC 1										
DC 2	1.9	2.5	2.7	3.7	1.5	1.8	1.9	2.5	2.5	
DC 3										
DC 4 Cur	4	3	3	3	4	4	4	3	3	
DC 5 #	41	42	43	44	45	46	47	48	49	
DC 6 n	3	4	5	6	2	3	4	5	6	
DC 7										
DC 8										
DC AVG.										
AC 1	58.6	26.9	22.8	9.82	93.6	50.0	28.4	14.7	13.5	
AC 2	—	—	—	—	—	—	—	—	—	
AC AVG.										
S.P.					+1.6	→	→	→	→	
AC NOISE										
POT RES.	OK				OK					

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Cuprite Mine
LINE 1 HALF SW SP. 1 DATE 4-22-71

SEND	1-2	2-3	3-4	4-5	1-2	2-3	3-4		CAL	
RECEIVE	60-70SW	→		→	70-80SW	→	→			
RANGE	1.0	1.0	1.0	0.1	1.0	1.0	0.1			
DC 1										
DC 2	1.5	1.6	1.7	1.6	1.5	1.7	2.0			
DC 3										
DC 4 Cu	4	4	4	3	4	4	4			
DC 5 #	50	51	52	53	54	55	56			
DC 6 n	3	4	5	6	4	5	6			
DC 7										
DC 8										
DC AVG.										
AC 1	32.8	20.3	13.8	7.77	15.6	11.8	8.08			
AC 2	—	-	—	-0.1	—	+0.1	—			
AC AVG.										
S.P.	-2.5	→	→	→	+16.4	→	→			
AC NOISE										
POT RES.	1.5K	→	→	→	2K	→	→			

INDUCED POLARIZATION SENDER NOTES

Project: Cuprite Line: 1 SW 1/2 Date: 4/22/71

Send	3-4	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5	5-6	6-7
Receive	20-30	30-40	→	→	→	→	40-50	→	→	→	→	→
Time												
Range	133.3X30	133.3X30	133.3X30	100X30	100X30	100X30	133.3X30	133.3X30	133.3X30	100X30	100X30	100X30
Current	4.0	4.0	4.0	3.0	3.0	3.0	4.0	4.0	4.0	3.0	3.0	3.0

Send	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5	1-2	2-3	3-4
Receive	50-60	→	→	→	→	60-70	→	→	→	70-80	→	→
Time												
Range	133.3X30	133.3X30	133.3X30	100X30	100X30	133.3X30	133.3X30	133.3X30	100X30	133.3X30	133.3X30	133.3X30
Current	4.0	4.0	4.0	3.0	3.0	4.0	4.0	4.0	3.0	4.0	4.0	4.0

JOB 624 LINE 1 SPREAD 1 NE + SW 1/2 4/21/71 1000 FEET=DIPOLE LENGTH
CAL GROUP NO. 1

CAL CUR	PFE	AC1	AC2	AC FREQ	DC FREQ	PFE CAL	RHO CAL
2.000	-.20	196.000	0.00	3.00	.30	-.2000	1.0204

COMPUTED DATA									FIELD DATA					
POINT NO.	N	RHO	PFE	MCF	CCPFE	CCMCF	CPFE		PFE	CUR	PT.	N	AC1	AC2
1	1	189.32	1.80	9.5	1.80	9.5	0.00	**	1.60	4.00	1	1	243.000	-0.00
2	2	278.48	2.10	7.5	2.10	7.5	0.00	**	1.90	4.00	2	2	89.100	0.00
3	1	702.30	1.40	2.0	1.40	2.0	0.00	**	1.20	4.00	3	1	905.000	0.00
4	2	452.31	1.90	4.2	1.90	4.2	0.00	**	1.70	4.00	4	2	145.000	0.00
5	3	426.27	2.20	5.2	2.12	5.0	.08	**	2.00	4.00	5	3	54.500	0.00
6	1	511.90	2.80	5.5	2.80	5.5	0.00	**	2.60	3.00	6	1	488.000	0.00
7	2	517.73	2.50	4.8	2.50	4.8	0.00	**	2.30	4.00	7	2	165.000	0.00
8	3	287.25	3.40	11.8	3.25	11.3	.15	**	3.20	4.00	8	3	36.300	0.00
9	4	264.30	3.40	12.9	3.08	11.7	.32	**	3.20	4.00	9	4	16.700	0.00
10	1	538.61	1.90	3.5	1.90	3.5	0.00	**	1.70	3.00	10	1	518.000	0.00
11	2	500.30	1.30	2.6	1.30	2.6	0.00	**	1.10	3.00	11	2	121.000	0.00
12	3	477.42	1.60	3.4	1.60	3.4	0.00	**	1.40	4.00	12	3	61.400	0.00
13	4	279.53	2.60	9.3	2.31	8.3	.29	**	2.40	4.00	13	4	17.800	0.00
14	5	274.00	2.60	9.5	2.10	7.7	.50	**	2.40	4.00	14	5	9.970	0.00
15	1	250.29	2.20	8.8	2.20	8.8	0.00	**	2.00	3.00	15	1	240.000	0.00
16	2	532.38	1.90	3.6	1.90	3.6	0.00	**	1.70	3.00	16	2	128.000	0.00
17	3	523.54	1.80	3.4	1.80	3.4	0.00	**	1.60	3.00	17	3	50.400	0.00
18	4	541.21	1.90	3.5	1.78	3.3	.12	**	1.70	4.00	18	4	34.700	0.00
19	5	333.51	2.90	8.7	2.52	7.5	.38	**	2.70	4.00	19	5	12.100	0.00
20	6	327.10	3.00	9.2	2.40	7.3	.60	**	2.80	4.00	20	6	7.410	0.00
21	2	211.15	4.30	20.4	4.20	19.9	.10	**	4.10	3.00	21	2	49.600	0.00
22	3	450.53	3.40	7.5	3.32	7.4	.08	**	3.20	3.00	22	3	42.700	0.00
23	4	448.60	3.20	7.1	3.05	6.8	.15	**	3.00	3.00	23	4	21.300	0.00
24	5	463.95	3.10	6.7	2.86	6.2	.24	**	2.90	4.00	24	5	16.800	0.00
25	6	280.88	3.70	13.2	2.96	10.5	.74	**	3.50	4.00	25	6	6.320	0.00
26	3	317.88	5.60	17.6	5.47	17.2	.13	**	5.40	3.00	26	3	29.500	0.00
27	4	727.96	4.35	6.0	4.35	6.0	0.00	**	4.10	3.00	27	4	34.200	-.10
28	5	729.40	4.20	5.8	4.07	5.6	.13	**	4.00	3.00	28	5	19.600	0.00
29	6	734.72	3.90	5.3	3.70	5.0	.20	**	3.70	4.00	29	6	16.500	0.00
30	4	256.92	7.60	29.6	7.27	28.3	.33	**	7.40	3.00	30	4	11.700	0.00
31	5	587.89	6.20	10.5	6.03	10.2	.17	**	6.00	3.00	31	5	15.500	0.00
32	6	561.03	5.85	10.4	5.56	9.9	.29	**	5.60	3.00	32	6	9.280	-.10
33	1	216.30	1.30	6.0	1.30	6.0	0.00	**	1.10	4.00	33	1	279.000	0.00
34	1	332.34	1.70	5.1	1.70	5.1	0.00	**	1.50	4.00	34	1	427.000	0.00
35	2	398.89	1.80	4.5	1.80	4.5	0.00	**	1.60	4.00	35	2	128.000	0.00
36	3	481.01	2.70	5.6	2.70	5.6	0.00	**	2.50	3.00	36	3	45.900	0.00
37	4	711.21	2.80	3.9	2.72	3.8	.08	**	2.60	3.00	37	4	33.900	0.00
38	5	467.10	3.80	8.1	3.56	7.6	.24	**	3.60	3.00	38	5	12.600	0.00
39	1	265.66	1.50	5.6	1.50	5.6	0.00	**	1.30	4.00	39	1	342.000	0.00
40	2	405.12	1.80	4.4	1.80	4.4	0.00	**	1.60	4.00	40	2	130.000	0.00
41	3	457.89	2.10	4.6	2.02	4.4	.08	**	1.90	4.00	41	3	58.600	0.00
42	4	563.80	2.70	4.8	2.59	4.6	.11	**	2.50	3.00	42	4	26.900	0.00
43	5	837.90	2.90	3.5	2.79	3.3	.11	**	2.70	3.00	43	5	22.800	0.00
44	6	583.03	3.90	6.7	3.63	6.2	.27	**	3.70	3.00	44	6	9.820	0.00
45	2	291.40	1.70	5.8	1.70	5.8	0.00	**	1.50	4.00	45	2	93.600	0.00
46	3	390.31	2.00	5.1	1.90	4.9	.10	**	1.80	4.00	46	3	50.000	0.00
47	4	443.82	2.10	4.7	1.95	4.4	.15	**	1.90	4.00	47	4	28.400	0.00
48	5	539.17	2.70	5.0	2.50	4.6	.20	**	2.50	3.00	48	5	14.700	0.00
49	6	792.26	2.70	3.4	2.52	3.2	.18	**	2.50	3.00	49	6	13.500	0.00
50	3	255.29	1.70	6.7	1.53	6.0	.17	**	1.50	4.00	50	3	32.800	0.00
51	4	316.31	1.80	5.7	1.55	4.9	.25	**	1.60	4.00	51	4	20.300	0.00
52	5	376.67	1.90	5.0	1.58	4.2	.32	**	1.70	4.00	52	5	13.800	0.00
53	6	451.99	1.85	4.1	1.46	3.2	.39	**	1.60	3.00	53	6	7.770	-.10
54	4	242.83	1.70	7.0	1.35	5.5	.35	**	1.50	4.00	54	4	15.600	0.00
55	5	322.08	1.85	5.7	1.45	4.5	.40	**	1.70	4.00	55	5	11.800	.10
56	6	353.90	2.20	6.2	1.66	4.7	.54	**	2.00	4.00	56	6	8.080	0.00

BUSINESS FORMS PRINTING COMPANY ENGINEERED FOR HIGH SPEED PRINTERS
BUSINESS FORMS PRINTING COMPANY ENGINEERED FOR HIGH SPEED PRINTERS

Job 624 Line 2 sp 2 SW/NE May 3, 71

1000

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT 624-71 Cuprite

LINE 2 HALF SW SP. 2 DATE 5-3

PAGE 1

SEND	4-5	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5
RECEIVE	8-7	7-6 →		6-5 →			5-4 →			
RANGE	1.0	1.0	1.0	1.0	1.0	0.1	10.	1.0	0.1	0.1
DC 1										
DC 2 1.0	2.7	4.2	3.6	5.8	5.2	4.4	3.9	4.8	4.4	4.2
DC 3 0.3	6.0	9.4	8.0	13.0	11.4	9.4	8.8	10.8	9.4	7.8
DC 4										
DC 5										
DC 6									0.1 =	11.4
DC 7 CVR	3	4 —					3.	4. —		
DC 8 #	1	2	3	4	5	6	7	8	9	10
DC AVG.	1	1	2	1	2	3	1	2	3	4
AC 1	37.9	52.1	14.2	47.0	14.8	8.46	115.	16.6	7.70	5.17
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	+0.2	0.0	0.0	0.0
AC AVG.										
S.P.	+5.5	-37.5		+30.7			+18.4			
AC NOISE										
POT RES.										

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT 624-71 Cuprite
LINE 2 HALF SW SP. 2 DATE 5-3

SEND	1-2	2-3	3-4	4-5	1-2	2-3	3-4	4-5	CAL	CAL
RECEIVE	4-3 →				3-2 →				3-4	3-4
RANGE	1.0	0.1	0.1	0.1	1.0	0.1	0.1	0.1	10.	10.
DC 1										
DC 2 7.0	2.7	3.5	3.9 ⇄ 4.6 (3.4)	2.4 ⇄ 4.4 (3.4)	2.5	3.6	3.8	4.2	-0.3	-1.5 = 1.0
DC 3 0.3	6.0	~~7.8~~	~7.4	6.2 ⇄ 6.8 (2.4)	5.6	7.8	7.8 ⇄ 9.0 (2.6)	8.4 ≈		
DC 4		7.8 ⇄ 9.2							-0.3	-1.5 = 0.3
DC 5			0.1 → 9.4 ⇄ 10.0 (9.6)					11.7		
DC 6									-0.3	-1.6 = 0.1
DC 7 CAL									2.0	
DC 8 #	11	12	13	14	15	16	17	18	1	
DC AVG.	2	3	4	5	3	4	5	6		
AC 1	41.2	6.93	3.92	2.91	37.0	7.46	3.94	2.94		
AC 2	0.0	0.0	0.0	0.0	+0.2	0.0	0.0	0.0		
AC AVG.									195.	198.
S.P.	+3.3				+31.6				0.0	+0.1
AC NOISE									3.0	
POT RES.									0.3	

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT 624-71 Cuprite
LINE 2 HALF NE SP. 2 DATE 5-3

SEND	1-2	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2
RECEIVE	80-90	90-100 NE →		100-110	→	→	110-120	→	→	→
RANGE				10.	1.0	0.1	1.0	1.0	0.1	0.1
DC 1 1.0				1.2	2.0	2.0 ⇄ 4.4 3.4	1.4	1.6	2.0 ⇄ 3.1 2.4	3.6 ⇄ 4.4 4.0
DC 2 0.3				3.0	4.7	7.0	3.2	3.8	6.1	9.0
DC 3										
DC 4										
DC 5										
DC 6										
DC 7 CUR				4.	→	→	→	→	→	→
DC 8 #				19	20	21	22	23	24	25
DC AVG. 3				1	2	3	1	2	3	4
AC 1				139.0	12.4	6.30	100.7	27.4	3.51	3.14
AC 2				0.0	0.0	0.0	+0.2	0.0	0.0	0.0
AC AVG.										
S.P.	+28.9	+23.3		~~+0.4~~			+11.1			
AC NOISE				-2.4						
POT RES.										

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT 624-71 Cuprite

LINE 2 HALF NE SP. 2 DATE 5-3

PAGE 4

SEND	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2		CAL
RECEIVE	120-130	→	→	→	130-140	→	→	→		4-5
RANGE	1.0	0.1	0.1	0.1	0.1	0.1	.01	.01		1.0
DC 1										
DC 2 1.0	1.6	2.0	3.0	3.4	1.9	2.4	5.02	4.8		-0.3
DC 3 0.3	3.5	4.2	7.2 ⇄ 8.0 7.7	8.6 ⇄ 9.1 8.8	4.0	4.8	9.6	10.0		
DC 4 0.1				13.5			13.5	14.5 ⇄ 16.5 15.0		-0.3
DC 5										
DC 6										-0.4
DC 7 CUR										
DC 8 #	26	27	28	29	30	31	32	33		
DC AVG. #	2	3	4	5	3	4	5	6		
AC 1	22.2	8.24	1.38	1.92	6.22	2.77	.488	.944		
AC 2	+0.2	0.0	0.0	0.0	0.0	0.0	+0.2	0.0		195.
AC AVG.										0.0
S.P.	+18.8				+1.3					
AC NOISE										
POT RES.										

INDUCED POLARIZATION SENDER NOTES

Project: Cuprite 624 Line: 2 sp2 SW½ Date: May 3, 71

Send	4-5	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5		
Receive	80-70	70-60	—	60-50	—	—	50-40					
Time		VS (2)		3.0 1.0	0.3	Hz						
Range	530	740	710	830	730	710	740	830	740	710	~~[illegible]~~	
Current	3.0	4.0	4.0	4.0	4.0	4.0	3.0	4.0	4.0	4.0	~~[illegible]~~	
Send	1-2	2-3	3-4	4-5	1-2	2-3	3-4	4-5			Cal	
Receive	40-30				30-20						3-4	
Time												
Range	1,000	830	730	710	1000	820	730	700			360	
Current	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0			2.0	

64445

3.1 .3.1

3.1 .3.1

INDUCED POLARIZATION SENDER NOTES

Project: Cuprite 624 Line: 2 sp 2 NE½ Date: May 3, 1971

Send	1-2	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2		
Receive	80-90 NE	90-100	—	100-110	—	—	110-120	—	—	—		
Time												
Range				720	790	960	690	710	800	960		
Current				4.	4.0	4.0	4.0	4.0	4.0	4.0		
Send	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2			Cal	
Receive	120-130	—	—	—	130-140	—	—	—			4-5	
Time				3.0 1.0 .3 .1			3.1 .3 .1	3.1 .3 .1				
Range	690	710	790	960	680	700	790	950			540	
Current	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0			2.0	

JOB 624 LINE 2 SPREAD 2 SW/NE 5/3/71 1000 FEET=DIPOLE LENGTH
CAL GROUP NO. 1

CAL CUR	PFE	AC1	AC2	AC FREQ	DC FREQ	PFE CAL	RHO CAL
2.000	-.30	195.000	0.00	3.00	.30	-.3000	1.0256

COMPUTED DATA									FIELD DATA					
POINT NO.	N	RHO (ρa/2π)	PFE	MCF	CCPFE	CCMCF	CPFE		PFE	CUR	PT.	N	AC1	AC2
1	1	41.32	6.30	152.5	6.04	146.2	.26	**	6.00	3.00	1	1	37.900	0.00
2	1	43.96	9.70	220.6	9.46	215.3	.24	**	9.40	4.00	2	1	52.100	0.00
3	2	47.32	8.30	175.4	7.54	159.4	.76	**	8.00	4.00	3	2	14.200	0.00
4	1	40.96	13.30	324.7	13.04	318.3	.26	**	13.00	4.00	4	1	47.000	0.00
5	2	50.87	11.70	230.0	11.01	216.5	.69	**	11.40	4.00	5	2	14.800	0.00
6	3	71.39	9.70	135.9	8.71	122.0	.99	**	9.40	4.00	6	3	8.460	0.00
7	1	128.69	9.00	69.9	9.00	69.9	0.00	**	8.80	3.00	7	1	115.000	.20
8	2	56.75	11.10	195.6	10.51	185.2	.59	**	10.80	4.00	8	2	16.600	0.00
9	3	64.98	9.70	149.3	8.58	132.0	1.12	**	9.40	4.00	9	3	7.700	0.00
10	4	85.98	8.10	94.2	6.67	77.6	1.43	**	7.80	4.00	10	4	5.170	0.00
11	2	134.76	6.30	46.8	6.12	45.4	.18	**	6.00	4.00	11	2	41.200	0.00
12	3	57.63	8.10	140.6	6.78	117.7	1.32	**	7.80	4.00	12	3	6.930	0.00
13	4	64.95	7.70	118.6	5.64	86.9	2.06	**	7.40	4.00	13	4	3.920	0.00
14	5	83.60	6.70	80.1	4.30	51.4	2.40	**	6.40	4.00	14	5	2.910	0.00
15	3	301.42	5.80	19.2	5.66	18.8	.14	**	5.60	4.00	15	3	37.000	.20
16	4	124.07	8.10	65.3	7.22	58.2	.88	**	7.80	4.00	16	4	7.460	0.00
17	5	115.52	8.90	77.0	7.32	63.3	1.58	**	8.60	4.00	17	5	3.940	0.00
18	6	137.66	8.70	63.2	6.81	49.4	1.89	**	8.40	4.00	18	6	2.940	0.00
19	1	110.45	3.30	29.9	3.24	29.3	.06	**	3.00	4.00	19	1	139.000	0.00
20	2	40.06	5.00	124.8	4.05	101.2	.95	**	4.70	4.00	20	2	12.400	0.00
21	3	52.00	7.30	140.4	5.80	111.5	1.50	**	7.00	4.00	21	3	6.300	0.00
22	1	80.18	3.40	42.4	3.30	41.1	.10	**	3.20	4.00	22	1	100.700	.20
23	2	87.76	4.10	46.7	3.77	43.0	.33	**	3.80	4.00	23	2	27.400	0.00
24	3	28.73	6.40	222.8	3.18	110.7	3.22	**	6.10	4.00	24	3	3.510	0.00
25	4	52.80	9.30	176.1	6.62	125.4	2.68	**	9.00	4.00	25	4	3.140	0.00
26	2	70.91	3.70	52.2	3.26	46.0	.44	**	3.50	4.00	26	2	22.200	.20
27	3	66.24	4.50	67.9	3.41	51.4	1.09	**	4.20	4.00	27	3	8.240	0.00
28	4	22.26	8.00	359.3	.18	8.0	7.82	**	7.70	4.00	28	4	1.340	0.00
29	5	58.83	~~13.80~~ 9.5	~~234.6~~ 141	10.05	170.9	3.75	**	13.50	4.00	29	5	1.920	0.00
30	2	19.96	4.30	215.4	1.96	98.0	2.34	**	4.00	4.00	30	2	6.220	0.00
31	4	44.79	5.10	113.9	1.80	40.2	3.30	**	4.80	4.00	31	4	2.770	0.00
32	5	14.44	9.80	678.6	-10.65	-737.7	20.45	**	9.60	4.00	32	5	.488	.20
33	6	44.85	10.30	229.6	2.59	57.7	7.71	**	10.00	4.00	33	6	.944	0.00

Job 624, Line 4 Sp 1 W+E, 6/23/71 1000.

only 1 cal

I.P. RECEIVER NOTES

PAGE 1 —

HEINRICHS GEOEXPLORATION CO. PROJECT 624- Cuprite

LINE 4 BEARING ~~N~~ 220 TRUE HALF W SP. 1 DATE 6/23/71

SEND	5-6	6-7	4-5	5-6	6-7	3-4	4-5	5-6	6-7	CAL II
RECEIVE	0	10 W	10		20	20			30	5-6
MULT.	10	10	10	1.0	1.0	10.	1.0	1.0	.01	
PFE										
1										-.1
.3	+1.2	+2.7	+1.0	+2.2	+3.1	+.7	+.7	+1.9	+2.1	-.2
.1										.0
CUR.	4.									2.0
#	1	2	3	4	5	6	7	8	9	1
n	1	2	1	2	3	1	2	3	4	
PFE Avg.										
AC	204.	32.9	194	47.2	10.8	496	100.3	34.3	9.59	194.0
DRIFT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
S.P.	-15.6	—	1.0	—	—	-8.9	—	—	—	3.0
AC NOISE										0.3
POT RES.										

I.P. RECEIVER NOTES

PAGE 2

HEINRICHS GEOEXPLORATION CO. PROJECT 624 - Cuprite

LINE 4 BEARING 220° T HALF N SP. 1 DATE 23/June/71

SEND	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5	56
RECEIVE	30-40					40-50				
MULT.	10	10	1.0	1.0	.1	10.	1.0	1.0	1.0	1.0
PFE (.3)	.9	1.1	.8	2.3	2.3	.7	1.3	1.5	1.2	2.5
CUR	4.									
#	10	11	12	13	14	15	16	17	18	19
7	1	2	3	4	5	1	2	3	4	5
PFE Avg.										
AC (3.)	263	140	45.6	18.6	5.83	366	73.6	58.8	24.0	10.9
DRIFT	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S.P.	-9.0					+9.4				
AC NOISE										
POT RES.						8.5K				

I.P. RECEIVER NOTES

PAGE 3

HEINRICHS GEOEXPLORATION CO. PROJECT 624

LINE 4 BEARING 220° HALF W SP. 1 DATE 23 June 71

SEND	6-7	1-2	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4
RECEIVE	40-50m	50-60						60-70		
MULT.	.1	1.0	1.0	1.0	1.0	0.1	0.1	1.0	1.0	1.0
PFE .3	3.0	1.6	1.7	1.6	1.4	2.3	3.2	2.6	1.9	1.8
.1	4.0									
1.0	1.1									
CVR	4.0									
#	20	21	22	23	24	25	26	27	28	29
7	6	2	3	4	5	6	7	3	4	5
PFE Avg.										
AC 3.	3.68	9.56	28.2	26.6	12.1	.609	.226	35.0	13.7	15.5
DRIFT	0.0	.1	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
S.P.	+31.0							-19.1		
AC NOISE										
POT RES.	300K									

I.P. RECEIVER NOTES

PAGE 4

HEINRICHS GEOEXPLORATION CO. PROJECT 62K Cuprite

LINE 4 BEARING 220°W HALF W SP. DATE 23

SEND	4-5	5-6	1-2	2-3	3-4	4-5	1-2	2-3	3-4	
RECEIVE	60-70		70-80							
MULT.	0.1	0.1	1.0	0.1	0.1	0.1				
PFE	1.7	2.1	1.0	1.1	1.1	1.2				
Cub	4.									
#	30	31	32	33	34	35				
n	6	7	4	5	6	7				
PFE Avg.										
AC 3.	.785	.429	15.0	.677	.803	.429				
DRIFT	0.0	0.0	0.0	0.0	0.0	0.0				
S.P.			+5.6							
AC NOISE										
POT RES.		✓				✓				

I.P. RECEIVER NOTES

PAGE 3

HEINRICHS GEOEXPLORATION CO. PROJECT 624

LINE 4 BEARING ____ HALF E SP. 1 DATE 6/23

SEND	—		4-5	4-3	5-6	4-5	3-4	2-3	1-2	
RECEIVE	0-10	10-20	20-30		30-40	Gr fence	~~26.00~~ and	at 32.0		
MULT.			10.	1.0	1.0	1.0	1.0	0.1	0.1	
PFE 1.										
0.3			+2.3	2.9	4.5	3.6	3.4	3.0	2.4	
0.1										
CoR			4.							
#			36	37	38	39	40	41	42	
n			1	2	1	2	3	4	5	
PFE Avg.										
AC			107.5	33.1	29.15	12.45	12.75	5.75	7.16	
DRIFT			0.0	0.0	0.0	0	0.0	0.0	-0.1	
S.P.	-61.7	-20.9	+19.7		+39.5	0.0				
AC NOISE										
POT RES.	5k		10k							

I.P. RECEIVER NOTES

PAGE 6

HEINRICHS GEOEXPLORATION CO. PROJECT _____

LINE 4 BEARING _____ HALF E SP. 1 DATE 6/23

SEND	6-7	5-6	5-4	4-3	3-2	2-1	6-7	5-6	4-5	3-4
RECEIVE	40-50E						50-60E			
MULT.	1.0	0.1	0.1	0.1	0.1	0.1	1.0	0.1	0.1	0.1
PFE										
1.0		3.5				3.0 3.1				
.3	5.7	7.1	6.2	6.3	6.6	6.0	5.0	4.5	3.6	3.6
0.1		11.5				8.4				
Cuk	4	4								
#	43	44	45	46	47	48	49	50	51	52
n	1	2	3	4	5	6	2	3	4	5
PFE Avg.										
AC	32.7	8.17	5.95	7.16	3.35	4.46	13.65	7.34	6.05	7.345
DRIFT	0	0	-0.4	0	0	-0.2	0	0	-0.2	
S.P.	+10.4						+9.8			
AC NOISE										
POT RES.	9.5K						9K			

I.P. RECEIVER NOTES

Sahuarita Road at 50.0E Sahuarita Road at 80E

HEINRICHS GEOEXPLORATION CO. PROJECT 624

LINE 4 BEARING ____ HALF E SP. ____ DATE 6/12

SEND	2-3	6-7	5-6	4-5	3-4	6-7	5-6	4-5		
RECEIVE	50-60E	60-70E				70-80E				
MULT.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
PFE										
1.0										
0.3	4.7	4.3	4.1	3.3	4.2	4.8	4.1	4.1		
0.1										
CUR	4									
#	53	54	55	56	57	58	59	60		
n	6	3	4	5	6	4	5	6		
PFE Avg.										
AC	3.55	5.93	4.32	3.90	4.765	3.83	3.24	3.13		
DRIFT	0	~~22.6~~ 0	0	0	+0.2	+0.3	0	+0.1		
S.P.		22.6				39.2				
AC NOISE										
POT RES.	~~6.0k~~	6.0k								

INDUCED POLARIZATION SENDER NOTES

Project: Cupmile Line: 4 S#1 W Date: 6/23/71

Send	5-6	6-7	4-5	5-6	6-7	3-4	4-5	5-6	6-7	2-3	3-4	4-5
Receive	0-10	W →	10-20 W	→		20-30 W		→		30-40	W	
Time												
Range	320	440	440	320	440	630	440	230	440	580	640	440
Current	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Send	5-6	6-7	1-2	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5
Receive	→		40-50 W		→				50-60	W		
Time												
Range	320	440	380	580	630	440	230	440	380	580	630	440
Current	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0

Cal - 5-6 at 2A 1 hz + 3 hz 3 hz + 1 hz

INDUCED POLARIZATION SENDER NOTES

Project: Cupwite Line: 4 S1 E Date: 6/23/71

Send	5-4											
Receive	→											
Time												
Range	420											
Current	4.0											
Send												
Receive												
Time												
Range												
Current												

INDUCED POLARIZATION SENDER NOTES

Project: Cuprite Line: 4 S 1 E Date: 6/23/71

Send	4-5	4-3	5-6	5-4	4-3	3-2	2-1	7-6	6-5	5-4	4-3	3-2
Receive	20-30E		30-40	E	→		→	40-50		E	→	→
Time												
Range	430	620	310	430	620	570	390	420	310	420	600	580
Current	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Send	2-1	7-6	6-5	5-4	4-3	3-2	7-6	6-5	5-4	4-3	7-6	6-5
Receive	→	50-60 E		→		→	60-70 E		→		70-80 E	
Time												
Range	380	420	300	420	620	560	420	310	410	610	420	300
Current	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0

INDUCED POLARIZATION SENDER NOTES

Project: Cupate Line: 4 S#1 W Date: 6/23/71

Send	5-6	6-7	1-3	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5	
Receive	→	→	60-	70 W	→		→	70-	80 W	→	→	
Time												
Range	320	440	380	580	630	440	320	380	580	630		
Current	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0		
Send												
Receive												
Time												
Range												
Current												

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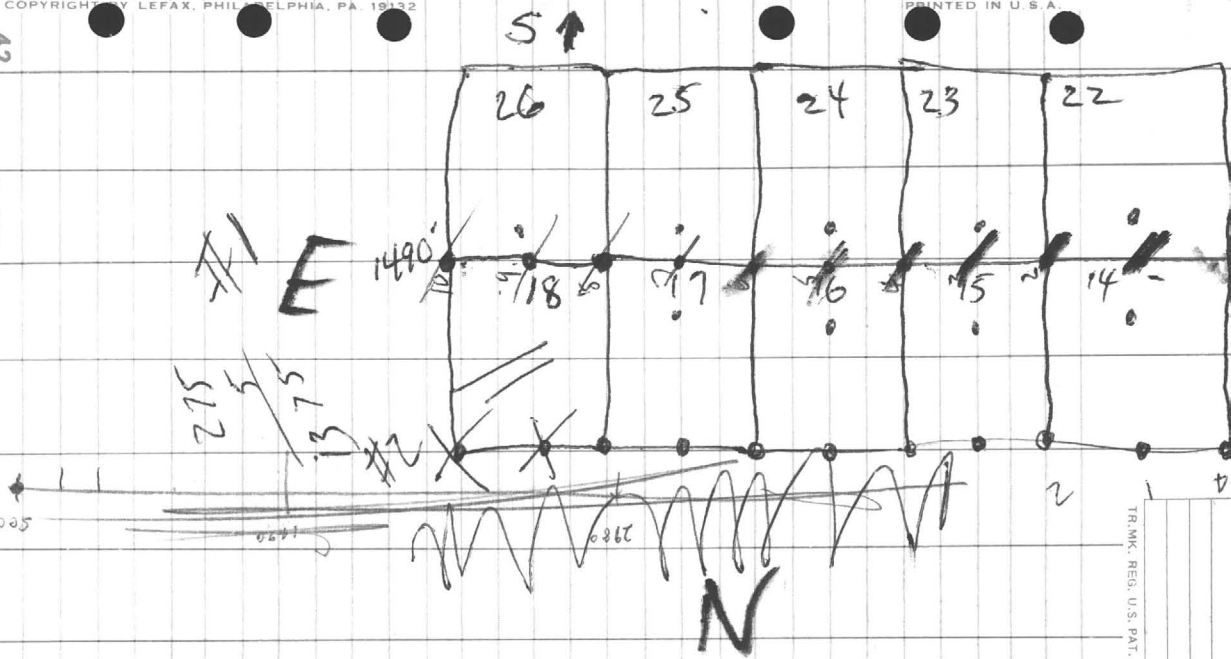

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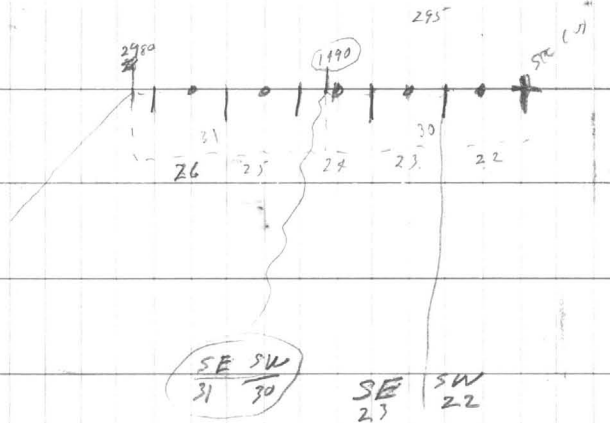


End 6
NAW 2v

JOB 624 LINE 4 SPREAD 1 W + E 1/2 6/23/71 1000 FEET=DIPOLE LENGTH
CAL GROUP NO. 1

CAL CUR	PFE	AC1	AC2	AC FREQ	DC FREQ	PFE CAL	RHO CAL
2.000	-.20	194.000	0.00	3.00	.30	-.2000	1.0309

COMPUTED DATA									FIELD DATA					
POINT NO.	N	RHO	PFE	MCF	CCPFE	CCMCF	CPFE		PFE	CUR	PT.	N	AC1	AC2
1	1	160.73	1.90	11.8	1.90	11.8	0.00	**	1.70	4.00	1	1	204.000	0.00
2	2	104.70	2.90	27.7	2.64	25.2	.26	**	2.70	4.00	2	2	32.900	0.00
3	1	151.80	1.20	7.9	1.20	7.9	0.00	**	1.00	4.00	3	1	194.000	0.00
4	2	149.48	2.40	16.1	2.24	15.0	.16	**	2.20	4.00	4	2	47.200	0.00
5	3	86.26	3.30	38.3	2.53	29.3	.77	**	3.10	4.00	5	3	10.800	0.00
6	1	386.96	.90	2.3	.90	2.3	0.00	**	.70	4.00	6	1	496.000	0.00
7	2	313.00	.90	2.9	.90	2.9	0.00	**	.70	4.00	7	2	100.300	0.00
8	3	270.78	2.10	7.8	1.94	7.2	.16	**	1.90	4.00	8	3	34.300	0.00
9	4	151.71	2.30	15.2	1.63	10.7	.67	**	2.10	4.00	9	4	9.590	0.00
10	1	205.59	1.05	5.1	1.05	5.1	0.00	**	.90	4.00	10	1	263.000	.10
11	2	438.62	1.30	3.0	1.30	3.0	0.00	**	1.10	4.00	11	2	140.000	0.00
12	3	356.10	1.00	2.8	.89	2.5	.11	**	.80	4.00	12	3	45.600	0.00
13	4	294.82	2.50	8.5	2.23	7.6	.27	**	2.30	4.00	13	4	18.600	0.00
14	5	161.71	2.50	15.5	1.48	9.2	1.02	**	2.30	4.00	14	5	5.830	0.00
15	1	285.54	.90	3.2	.90	3.2	0.00	**	.70	4.00	15	1	366.000	0.00
16	2	231.04	1.50	6.5	1.42	6.1	.08	**	1.30	4.00	16	2	73.600	0.00
17	3	462.37	1.70	3.7	1.70	3.7	0.00	**	1.50	4.00	17	3	58.800	0.00
18	4	376.33	1.40	3.7	1.21	3.2	.19	**	1.20	4.00	18	4	24.000	0.00
19	5	302.94	2.70	8.9	2.26	7.5	.44	**	2.50	4.00	19	5	10.900	0.00
20	6	164.44	3.20	19.5	1.70	10.3	1.50	**	3.00	4.00	20	6	3.680	0.00
21	2	30.10	1.75	58.1	.37	12.3	1.38	**	1.60	4.00	21	2	9.560	.10
22	3	222.18	1.90	8.6	1.69	7.6	.21	**	1.70	4.00	22	3	28.200	0.00
23	4	418.74	1.80	4.3	1.63	3.9	.17	**	1.60	4.00	23	4	26.600	0.00
24	5	332.69	1.60	4.8	1.22	3.7	.38	**	1.40	4.00	24	5	12.100	0.00
25	6	27.03	2.50	92.5	-11.65	-431.2	14.15	**	2.30	4.00	25	6	.609	0.00
26	7	15.18	3.30	217.4	-35.01	-2306.4	38.31	**	3.20	4.00	26	7	.226	.20
27	3	278.20	2.80	10.1	2.65	9.5	.15	**	2.60	4.00	27	3	35.000	0.00
28	4	216.30	2.10	9.7	1.68	7.8	.42	**	1.90	4.00	28	4	13.700	0.00
29	5	427.85	2.00	4.7	1.73	4.0	.27	**	1.80	4.00	29	5	15.500	0.00
30	6	34.64	1.90	54.9	-8.63	-249.2	10.53	**	1.70	4.00	30	6	.785	0.00
31	7	28.50	2.30	80.7	-16.01	-561.9	18.31	**	2.10	4.00	31	7	.429	0.00
32	4	234.74	1.20	5.1	.83	3.5	.37	**	1.00	4.00	32	4	15.000	0.00
33	5	18.56	1.30	70.0	-13.92	-750.0	15.22	**	1.10	4.00	33	5	.677	0.00
34	6	35.22	1.30	36.9	-9.02	-256.2	10.32	**	1.10	4.00	34	6	.803	0.00
35	7	28.12	1.40	49.8	-17.21	-611.9	18.61	**	1.20	4.00	35	7	.427	0.00
36	1	85.20	2.50	29.3	2.41	28.2	.09	**	2.30	4.00	36	1	107.500	0.00
37	2	105.54	3.10	29.4	2.85	27.0	.25	**	2.90	4.00	37	2	33.100	0.00
38	1	23.60	4.70	199.2	4.15	175.7	.55	**	4.50	4.00	38	1	29.150	0.00
39	2	39.97	3.80	95.1	2.85	71.3	.95	**	3.60	4.00	39	2	12.450	0.00
40	3	102.13	3.60	35.2	2.99	29.2	.61	**	3.40	4.00	40	3	12.750	0.00
41	4	91.76	3.20	34.9	1.89	20.6	1.31	**	3.00	4.00	41	4	5.750	0.00
42	5	198.80	2.65	13.3	1.88	9.4	.77	**	2.40	4.00	42	5	7.160	-.10
43	1	26.78	5.90	220.4	5.43	203.0	.47	**	5.70	4.00	43	1	32.700	0.00
44	2	27.11	7.30	269.2	5.72	211.0	1.58	**	7.10	4.00	44	2	8.170	0.00
45	3	48.94	6.60	134.8	4.97	101.6	1.63	**	6.20	4.00	45	3	5.950	-.40
46	4	117.92	6.50	55.1	5.56	47.1	.94	**	6.30	4.00	46	4	7.160	0.00
47	5	96.82	6.80	70.2	4.81	49.7	1.99	**	6.60	4.00	47	5	3.350	0.00
48	6	205.07	6.30	30.7	5.18	25.2	1.12	**	6.00	4.00	48	6	4.460	-.20
49	2	44.41	5.20	117.1	4.38	98.5	.82	**	5.00	4.00	49	2	13.650	0.00
50	3	59.42	4.70	79.1	3.44	57.8	1.26	**	4.50	4.00	50	3	7.340	0.00
51	4	97.11	3.90	40.2	2.68	27.6	1.22	**	3.60	4.00	51	4	6.050	-.20
52	5	206.32	3.80	18.4	3.07	14.9	.73	**	3.60	4.00	52	5	7.345	0.00
53	6	161.24	4.90	30.4	3.36	20.8	1.54	**	4.70	4.00	53	6	3.550	0.00
54	3	47.91	4.50	93.9	2.83	59.0	1.67	**	4.30	4.00	54	3	5.930	0.00
55	4	69.68	4.30	61.7	2.42	34.8	1.88	**	4.10	4.00	55	4	4.320	0.00
56	5	109.24	3.50	32.0	1.80	16.5	1.70	**	3.30	4.00	56	5	3.900	0.00
57	6	215.41	4.30	20.0	3.25	15.1	1.05	**	4.20	4.00	57	6	4.765	.20
58	4	62.19	4.85	78.0	2.68	43.0	2.17	**	4.80	4.00	58	4	3.830	.30
59	5	91.45	4.30	47.0	2.16	23.6	2.14	**	4.10	4.00	59	5	3.240	0.00
60	6	141.36	4.25	30.1	2.42	17.1	1.83	**	4.10	4.00	60	6	3.130	.10

Job 624, Line 3 sp 2, SW 1/2, 5/11/71

300.

300' HEADING SW.

PAGE 1

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT 624-71 Cuprite

LINE 3 HALF SW SP. 2 DATE 5-1

SEND	4-5	3-4	2-3	1-2	3-4	2-3	1-2	2-3	1-2	1-2
RECEIVE	6-7 (18-21)		→		5-6 (21-24)		→	4-5 (24-27)		3-4
RANGE	1.0	1.0	1.0	0.1	10.	10.	1.0	10.	1.0	10.
DC 1										
DC 2	2.6	2.8	3.2	3.7	0.4	0.4	1.3	-0.1	0.7	0.7
DC 3										
DC 4										
DC 5										
DC 6										
DC 7 CUR	.3	—	.6	.3	—	.6	.3	.6	.3	—
DC 8 #	1	2	→ 3	4	5	6	7	8	9	10
DC AVG. #	1	2	3	4	1	2	3	1	2	1
AC 1	61.0	18.8	25.3	8.32	143.	110.	30.3	378.	61.3	133.
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.										
AC NOISE										
POT RES.										

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT 624-71 Cuprite

LINE 3 HALF SW SP. 2 DATE 5-11

SEND	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5	5-6
RECEIVE	36-39 SW					39-42				
RANGE	10.	1.0	0.1	0.1	0.1	10.	1.0	0.1	0.1	0.1
DC 1										
DC 2	0.7	0.5	0.6	1.0	2.8	1.3	0.5	0.4	0.6	1.2
DC 3										
DC 4										
DC 5										
DC 6 Cur	.6	.3		.6	1.	.3	.6	.3		.6
DC 7 #	11	12	13	14	15	16	17	18	19	20
DC 8 #	1	2	3	4	5	1	2	3	4	5
DC AVG.										
AC 1	169.	13.7	6.67	8.67	5.87	197.	37.8	5.55	5.12	7.78
AC 2	+0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.	−9.1					+6.7				
AC NOISE										
POT RES.										

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT 624-71 Cuprite
LINE 3 HALF SW SP. 2 DATE 5-1

SEND	6-7	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4	CAL
RECEIVE	39-42	42-45				→	45-48			1-2
RANGE	0.1	1.0	1.0	0.1	0.1	0.1	1.0	0.1	0.1	1.0
DC 1										
DC 2	3.3	1.4	0.7	0.8	0.8	1.4	1.5	0.6	1.4	−0.1
DC 3									0.6 (→2.1)	
DC 4										
DC 5										
DC 6 CUR	1.0	.3	.6	.3	—	.6	.3	.6	.3	.3
DC 7 #	21	22	23	24	25	26	27	28	29	1
DC 8 #	1	2	3	4	5	6	3	4	5	
DC AVG.									Noisy	
AC 1	4.90	31.7	14.4	2.91	2.73	4.70	12.5	7.49	1.8.4	
AC 2	0.0	+0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	302.
AC AVG.										0.0
S.P.		+4.5					+3.2			
AC NOISE										3.0
POT RES.										0.3

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT 624 - CUPRITE

LINE 3 HALF SW SP. 2 DATE 5-11

SEND	4-5	1-2	2-3	3-4						
RECEIVE	45-48	48-51	→	→						
RANGE	0.1	0.1	0.1	0.1	Unbalance		48.'	x	x 51'	
DC 1										
DC 2	0.6	1.3	0.8	1.4						
DC 3										
DC 4										
DC 5										
DC 6 Cur	.3	—	.6	.3						
DC 7 #	30	31	32	33						
DC 8 η	6	4	5	6						
DC AVG.										
AC 1	2.19	4.93	4.66	1.16						
AC 2	0.0	+0.1	0.0	0.0						
AC AVG.		+1.8								
S.P.	20 Same		20 Same	AC's						
AC NOISE										
POT RES.										

Job 624, Line 3, Sp 2 5/12/71 .360

Signs on S.P. are reversed

Heading SW

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT 624-71 Cuprite

LINE 3 HALF NE SP. 2 DATE 5-12

PAGE 5

SEND	6-7	5-6	4-5	3-4	6-7	5-6	4-5	3-4	2-3	
RECEIVE	6-9sw	→		→	9-12sw	→				
RANGE	1.0	1.0	0.1	0.1	1.0	1.0	0.1	0.1	0.1	
DC 1										
DC 2	1.8	2.0	1.2	1.7	1.7	2.1	0.7	1.4	1.6	
DC 3					1.6					
DC 4										
DC 5										
DC 6 Cur	1.	.6	.3	.6	1.	.6	.3	—	.6	
DC 7 #	1	2	3	4	5	6	7	8	9	
DC 8 η	3	4	5	6	2	3	4	5	6	
DC AVG.										
AC 1	21.7	12.2	3.63	3.23	52.8	23.4	6.20	2.43	5.09	
AC 2	0.0	0.0	0.0	0.0	+0.4	0.0	-0.2	0.0	0.0	
AC AVG.									20 Sec AC	
S.P.	+17.1				-51.5					
AC NOISE					53.0					
POT RES.					+0.2					

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT 624 - CUPRITE
LINE 3 HALF ____ SP. 2 DATE 5/12

SEND	6-7	5-6	4-5	3-4	2-3	1-2	5-6	4-5	3-4	2-3
RECEIVE	12-15	SW —				→	15-18			
RANGE	10.	1.0	1.0	0.1	0.1	0.1	10.	1.0	1.0	1.0
DC 1										
DC 2	1.4	2.5	1.8	2.1	1.8	2.0	2.9	2.8	3.0	3.1
DC 3						1.8 ⇔ 2.2				
DC 4										
DC 5										
DC 6 CUR	1.0	.6	.3 —		.6	.3	.6	.3	.6	—
DC 7 #	10	11	12	13	14	15	16	17	18	19
DC 8 ⊓	1	2	3	4	5	6	1	2	3	4
DC AVG.										
AC 1	207.	49.8	10.2	4.06	7.19	3.34	195.	26.0	21.1	15.9
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.	+88.7						−30.5			
AC NOISE										
POT RES.										

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT 624-71 CUPRITE
LINE 3 HALF ____ SP. 2 DATE 5/12

SEND	1-2	CAL	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2
RECEIVE	15-18	6-7	18-21	→	→	→	18-21	→	→	→
RANGE	0.1	~~10.~~	1.0	1.0	1.0	0.1	1.0	1.0	1.0	0.1
DC 1		1.0								
DC 2	3.5		2.5	2.8	3.2	3.8	2.4	2.7	3.0	3.5
DC 3		-0.1								
DC 4						21				
DC 5										
DC 6 Cum	.3	.6	.3	→	.6	.3	.3	→	.6	.3
DC 7 #	20	2	21	22	23	24	25	26	27	28
DC 8 ~~3~~	5		18 1	2	3	4	1	2	3	4
DC AVG.										
AC 1	5.64	~~102~~	59.8	18.4	25.0	8.21	60.1	18.6	25.2	8.34
AC 2	0.0	60.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.		0.0								
S.P.			-14.2				-12.0			
AC NOISE										
POT RES.							←	Fence Cut	Bent →	

Repeat after fence cut

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT (624-7)
LINE 3 HALF ____ SP. 2 DATE 5/12

SEND	5-6	4-5	3-4	2-3	1-2	21-24	24-27	27-30	30-33	33-36
RECEIVE	15-18	→								
RANGE	10.0	1.0	1.0	1.0	0.1					
DC 1										
DC 2	2.8	2.8	3.0	3.2	3.5					
DC 3										
DC 4										
DC 5										
DC 6 Cu/S	.6	.3		.6	.3					
DC 7 "	29	30	31	32	33					
DC 8 "	1	2	3	4	5					
DC AVG.										
AC 1	195	26.1	10.6	15.8	5.64					
AC 2	-0.2	0.0	0.0	0.0	0.0					
AC AVG.										
S.P.	-17.8					-64.0	+6.9	+63.5	-133.9	+40.1
AC NOISE										
POT RES.		Rept	fence	cut						

INDUCED POLARIZATION SENDER NOTES

(1)

Project: C24 Cuprite Line: 3 Sp 2 a=300 Date: 5/11/71

Send		4-5	3-4	2-3	1-2	3-4	2-3	1-2	2-3	1-2	1-2	
Receive		6-7	—	—	—	5-6	—	—	4-5	—	3-4	
Time												
Range		650	540	840	830	540	840	820	840	820	830	
Current		.3	.3	.6	.3	.3	.6	.3	.6	.3	.3	

Send	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5	5-6	6-7	Cal
Receive	36-39	—	—	—	—	39-42						1-2
Time												
Range	840	550	670	720	420	820	840	540	650	720	420	840
Current	.6	.3	.3	.6	1.0	.3	.6	.3	.3	.6	1.0	0.3

Line 5 (center) #4 at 22.0S freq 3.-0.3

INDUCED POLARIZATION SENDER NOTES

(2)

Project: 624 Line: 3 Sp 2 Date: 5/11/71

Send	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5	1-2	2-3	3-4
Receive	42-45					45-48				48-52		
Time												
Range	820	830	510	660	710	810	840	530	650	810	830	540
Current	.3	.6	.3	.3	.6	.3	.6	.3	.3	.3	.6	.3
Send												
Receive												
Time												
Range												
Current												

INDUCED POLARIZATION SENDER NOTES

(4)

Project: 628 Line: 3 sp 2 Date: 5/12/71

Send	~~[illegible]~~	~~[illegible]~~	4-5	3-4	2-3	1-2						Cal
Receive	with fence 18-21											6-7
Time			2.5	2.5	3.2	3.8						w fence
Range			620	510	800	790						280 ~~400~~
Current	~~[illegible]~~	~~[illegible]~~	.3	.3	.6	.3						.600 ~~1.0~~
Send	4-5	3-4	2-3	-12	5-4	4-3	3-2	1-2	5-6			
Receive	fence cut 18-21				fence cut 15-18							
Time	2.6	2.7	3.0	3.5	2.8	3.0	3.2	3.5	2.8			
Range	650	530	800	790	640	520	800	800	700			
Current	.3	.3	.6	.3	.3	.3	.6	.3	.6			

INDUCED POLARIZATION SENDER NOTES

Project: 624 Line: 3 5 2 E 1/2 Date: 5/12/71

Send	6-7	5-6	4-5	3-4	6-7	5-6	4-5	3-4	2-3			
Receive	6.0-9.0	—	—	—	9-12	—	—	—	—			
Time IPTB No Cal	1.8	2.0	1.2	1.7	1.6	2.1	0.7	1.4	1.6			
Range	410	700	640	850	410	690	630	520	800			
Current	1.0	0.6	0.3	.6	1.0	0.6	.3	.3	0.6			
Send	6-7	5-6	4-5	3-4	2-3	1-2	[redacted]	5-6	4-5	3-4	2-3	1-2
Receive	12-15	—	—	—	—	—	15-18	—	—	—	—	—
Time	1.9	2.5	1.9	2.1	1.8	2.0		2.9	2.8	3.0	3.1	3.5
Range	410	700	640	520	800	800		700	640	850	800	790
Current	1.0	0.6	.3	.3	.6	.3		0.6	.3	.6	.6	.3

20-NW
0-1

W 1/2
25 NW

INDUCED POLARIZATION SENDER NOTES

Project: 624 Line: 25 - NW Date: 6/28

Send	W 1-2	W 1-2										
Receive	W 0-1	W 1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12
~~Time~~												
~~Range~~ V												
~~Current~~ A												
Send					1-2							
Receive	W 13-14	W 14-15	15-16	16-17	17-18	18-19	19-20					
Time												
Range												
Current												

JOB 624 LINE 3 SPREAD 2 SW 1/2 5/11/71 300 FEET=DIPOLE LENGTH
CAL GROUP NO. 1

CAL CUR	PFE	AC1	AC2	AC FREQ	DC FREQ	PFE CAL	RHO CAL
.300	-.10	30.200	0.00	3.00	.30	-.1000	.9934

COMPUTED DATA									FIELD DATA					
POINT NO.	N	RHO	PFE	MCF	CCPFE	CCMCF	CPFE		PFE	CUR	PT.	N	AC1	AC2
1	1	186.70	2.70	14.5	2.70	14.5	0.00	**	2.60	.30	1	1	61.000	0.00
2	2	230.61	2.90	12.6	2.90	12.6	0.00	**	2.80	.30	2	2	18.800	0.00
3	3	389.43	3.30	8.5	3.30	8.5	0.00	**	3.20	.60	3	3	25.300	0.00
4	4	514.74	3.80	7.4	3.80	7.4	0.00	**	3.70	.30	4	4	8.320	0.00
5	1	428.29	.50	1.2	.50	1.2	0.00	**	.40	.30	5	1	143.000	0.00
6	2	658.91	.50	.8	.50	.8	0.00	**	.40	.60	6	2	110.000	0.00
7	3	915.62	1.40	1.5	1.40	1.5	0.00	**	1.30	.30	7	3	30.300	0.00
8	1	563.25	0.00	0.0	0.00	0.0	0.00	**	-.10	.60	8	1	378.000	0.00
9	2	736.57	.80	1.1	.80	1.1	0.00	**	.70	.30	9	2	61.300	0.00
10	1	399.53	.80	2.0	.80	2.0	0.00	**	.70	.30	10	1	133.000	0.00
11	1	253.84	.75	3.0	.75	3.0	0.00	**	.70	.60	11	1	169.000	.10
12	2	164.29	.60	3.7	.60	3.7	0.00	**	.50	.30	12	2	13.700	0.00
13	3	200.17	.70	3.5	.70	3.5	0.00	**	.60	.30	13	3	6.670	0.00
14	4	261.22	1.10	4.2	1.10	4.2	0.00	**	1.00	.60	14	4	8.670	0.00
15	5	189.01	2.90	15.3	2.90	15.3	0.00	**	2.80	1.00	15	5	5.870	0.00
16	1	595.31	1.40	2.4	1.40	2.4	0.00	**	1.30	.30	16	1	197.000	0.00
17	2	226.65	.60	2.6	.60	2.6	0.00	**	.50	.60	17	2	37.800	0.00
18	3	166.22	.50	3.0	.50	3.0	0.00	**	.40	.30	18	3	5.550	0.00
19	4	307.30	.70	2.3	.70	2.3	0.00	**	.60	.30	19	4	5.120	0.00
20	5	411.02	1.30	3.2	1.30	3.2	0.00	**	1.20	.60	20	5	7.780	0.00
21	6	253.67	3.40	13.4	3.40	13.4	0.00	**	3.30	1.00	21	6	4.900	0.00
22	2	383.55	1.45	3.8	1.45	3.8	0.00	**	1.40	.30	22	2	31.700	.10
23	3	216.29	.80	3.7	.80	3.7	0.00	**	.70	.60	23	3	14.400	0.00
24	4	175.00	.90	5.1	.90	5.1	0.00	**	.80	.30	24	4	2.910	0.00
25	5	287.31	.90	3.1	.90	3.1	0.00	**	.80	.30	25	5	2.730	0.00
26	6	398.07	1.50	3.8	1.50	3.8	0.00	**	1.40	.60	26	6	4.700	0.00
27	3	378.48	1.60	4.2	1.60	4.2	0.00	**	1.50	.30	27	3	12.500	0.00
28	4	224.77	.70	3.1	.70	3.1	0.00	**	.60	.60	28	4	7.490	0.00
29	5	194.80	1.50	7.7	1.50	7.7	0.00	**	1.40	.30	29	5	1.840	0.00
30	6	368.04	.70	1.9	.70	1.9	0.00	**	.60	.30	30	6	2.190	0.00
31	4	297.96	1.35	4.5	1.35	4.5	0.00	**	1.30	.30	31	4	4.930	.10
32	5	245.22	.90	3.7	.90	3.7	0.00	**	.80	.60	32	5	4.660	0.00
33	6	196.49	1.50	7.6	1.50	7.6	0.00	**	1.40	.30	33	6	1.160	0.00

JOB 624 LINE 3 SPREAD 2 5/12/71 300 FEET=DIPOLE LENGTH
CAL GROUP NO. 2

CAL CUR	PFE	AC1	AC2	AC FREQ	DC FREQ	PFE CAL	RHO CAL
.600	-.10	60.700	0.00	3.00	.30	-.1000	.9885

COMPUTED DATA									FIELD DATA					
POINT NO.	N	RHO	PFE	MCF	CCPFE	CCMCF	CPFE		PFE	CUR	PT.	N	AC1	AC2
1	3	196.72	1.90	9.7	1.90	9.7	0.00	**	1.80	1.00	1	3	21.700	0.00
2	4	369.38	2.10	5.7	2.10	5.7	0.00	**	2.00	.60	2	4	12.200	0.00
3	5	381.65	1.30	3.4	1.30	3.4	0.00	**	1.20	.30	3	5	3.630	0.00
4	6	273.02	1.80	6.6	1.80	6.6	0.00	**	1.70	.60	4	6	3.230	0.00
5	2	191.09	1.50	7.8	1.50	7.8	0.00	**	1.60	1.00	5	2	52.800	.40
6	3	354.59	2.20	6.2	2.20	6.2	0.00	**	2.10	.60	6	3	23.400	0.00
7	4	370.65	.90	2.4	.90	2.4	0.00	**	.70	.30	7	4	6.200	-.20
8	5	255.99	1.50	5.9	1.50	5.9	0.00	**	1.40	.30	8	5	2.430	0.00
9	6	429.81	1.70	4.0	1.70	4.0	0.00	**	1.60	.60	9	6	5.090	0.00
10	1	186.91	1.50	8.0	1.50	8.0	0.00	**	1.40	1.00	10	1	207.000	0.00
11	2	303.03	2.60	8.6	2.60	8.6	0.00	**	2.50	.60	11	2	49.800	0.00
12	3	308.22	1.90	6.2	1.90	6.2	0.00	**	1.80	.30	12	3	10.200	0.00
13	4	246.09	2.20	8.9	2.20	8.9	0.00	**	2.10	.30	13	4	4.060	0.00
14	5	380.21	1.90	5.0	1.90	5.0	0.00	**	1.80	.60	14	5	7.190	0.00
15	6	566.30	2.10	3.7	2.10	3.7	0.00	**	2.00	.30	15	6	3.340	0.00
16	1	297.80	3.00	10.1	3.00	10.1	0.00	**	2.90	.60	16	1	195.000	0.00
17	2	317.35	2.90	9.1	2.90	9.1	0.00	**	2.80	.30	17	2	26.000	0.00
18	3	322.55	3.10	9.6	3.10	9.6	0.00	**	3.00	.60	18	3	21.100	0.00
19	4	486.59	3.20	6.6	3.20	6.6	0.00	**	3.10	.60	19	4	15.900	0.00
20	5	606.44	3.60	5.9	3.60	5.9	0.00	**	3.50	.30	20	5	5.640	0.00
21	1	181.94	2.60	14.3	2.60	14.3	0.00	**	2.50	.30	21	1	59.800	0.00
22	2	224.58	2.90	12.9	2.90	12.9	0.00	**	2.80	.30	22	2	18.400	0.00
23	3	382.91	3.30	8.6	3.30	8.6	0.00	**	3.20	.60	23	3	25.000	0.00
24	4	505.91	3.90	7.7	3.90	7.7	0.00	**	3.80	.30	24	4	8.210	0.00
25	1	182.68	2.50	13.7	2.50	13.7	0.00	**	2.40	.30	25	1	60.100	0.00
26	2	226.80	2.80	12.3	2.80	12.3	0.00	**	2.70	.30	26	2	18.600	0.00
27	3	385.22	3.10	8.0	3.10	8.0	0.00	**	3.00	.60	27	3	25.200	0.00
28	4	512.44	3.60	7.0	3.60	7.0	0.00	**	3.50	.30	28	4	8.340	0.00
29	1	297.50	3.00	10.1	3.00	10.1	0.00	**	2.80	.60	29	1	195.000	-.20
30	2	318.57	2.90	9.1	2.90	9.1	0.00	**	2.80	.30	30	2	26.100	0.00
31	3	324.08	3.10	9.6	3.10	9.6	0.00	**	3.00	.30	31	3	10.600	0.00
32	4	484.00	3.30	6.8	3.30	6.8	0.00	**	3.20	.60	32	4	15.800	0.00
33	5	606.44	3.60	5.9	3.60	5.9	0.00	**	3.50	.30	33	5	5.640	0.00

Jb 624, Line 3 sp1 NE/SW 4/29/71

300

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT 624-71 Cupnte
LINE 3 HALF NE SP. 1 DATE 4-29

PAGE 1

SEND	3-4	4-5	5-6	6-7	4-5	5-6	6-7	5-6	6-7	6-7
RECEIVE	6-95W	→		→	3-65W	→		0-35W	→	0-3NE
RANGE	10.	10.	1.0	1.0	10.	1.0	1.0	10.	10.	10.
DC 1										
DC 2	0.5	1.0	2.1	2.2	0.6	1.7	1.6	1.6	1.5	1.3
DC 3										
DC 4 CUR	3	2	1	2 —	—	1	2	1	2 —	—
DC 5 #	1	2	3	4	5	6	7	8	9	10
DC 6 "	1	2	3	4	1	2	3	1	2	1
DC 7										
DC 8										
DC AVG.										
AC 1	762.	113.	-27.3	30.8	314.	50.6	46.8	206.	139.	453.
AC 2	+0.1	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.										
AC NOISE										
POT RES.										

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT 624-71 Cuprite
LINE 3 HALF NE SP. 1 DATE 4-29

PAGE 2

SEND	5-6	4-5	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3
RECEIVE	9-12 NC					12-15				
RANGE	10.	10.	1.0	1.0	1.0	10.	10.	1.0	1.0	1.0
DC 1										
DC 2	0.7	1.7	2.1	2.0	2.2	0.6	1.0	2.2	2.3	2.0
DC 3										
DC 4 CWR	1	2	3	2		1		2	3	
DC 5 #	11	12	13	14	15	16	17	18	19	20
DC 6 #	1	2	3	4	5	1	2	3	4	5
DC 7										
DC 8										
DC AVG.										
AC 1	311.	159.	94.2	23.1	16.5	657.	104.	83.8	59.7	24.4
AC 2	0.0	0.0	+0.1	0.0	0.0	+0.6	0.0	0.0	0.0	0.0
AC AVG.										
S.P.	-41.0					+39.9				
AC NOISE										
POT RES.										

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT 624-71 Cuprite
LINE 3 HALF NE SP. 1 DATE 4-29

SEND	1-2	6-7	5-6	4-5	3-4	2-3			DC CAL	CAL
RECEIVE	12-15	15-18	→					DC 1		3-4
RANGE	1.0	10.	1.0	1.0	1.0	1.0		E.3		
DC 1								+1.6	-0.2	-0.4-
DC 2	2.4	0.2	1.2	2.2	2.0	1.7		-1.6	+0.1	
DC 3								+1.6	-0.2	-0.4-
DC 4	2	—	1	2	3	—		-1.6	+0.1	
DC 5	21	22	23	24	25	26	~~27~~	+1.6	-0.2	-0.4-
DC 6	6	2	3	4	5	6		-1.6	+0.1	
DC 7								+1.6		
DC 8								-1.6		195-3-
DC AVG.								E.1		0.0
AC 1	13.0	310.	44.1	45.5	36.2	15.9		+1.2		2.
AC 2	0.0	0.0	0.0	0.0	0.0	0.0		-1.2		1
AC AVG.								+1.2		3.0
S.P.		-3.1						-1.2	19.5.	0.3
AC NOISE								+1.2		
POT RES.								-1.2		

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT 624-71 Cuprite
LINE 3 HALF NE SP. 1 DATE 4-29

PAGE 4

SEND	6-7	5-6	4-5	3-4	6-7	5-6	4-5	S-P	S-P	S-P
RECEIVE	18-21	→		→	21-24	→	→	9-6	6-3	0-3
RANGE	10.	1.0	1.0	1.0	1.0	1.0	1.0			
DC 1										
DC 2	0.4	1.6	2.4	2.3	1.0	2.2	2.8			
DC 3										
DC 4 Con	2	1	2	3	2	1	2			
DC 5 #	27	28	29	30	31	32	33			
DC 6 7	3	4	5	6	4	5	6			
DC 7										
DC 8										
DC AVG.										
AC 1	111.	22.1	25.9	22.4	45.5	10.3	12.7			
AC 2	+0.2	0.0	~~2.4~~	0.0	+0.2	0.0	0.0			
AC AVG.			0.0							
S.P.	+9.5				−2.9			+19.7	−31.9	−8.1
AC NOISE										
POT RES.										

signs changed for pot. hi pot. hi 0.0

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT 624-71 Cuprite
LINE 3 HALF SW SP. 1 DATE 4-29

PAGE 5

SEND	S-P	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5
RECEIVE	0-35W	9-12	→				12-15	→		
RANGE		10.	10.	1.0	1.0	1.0	10.	10.	1.0	1.0
DC 1	+4.9									
DC 2		0.4	0.4	1.1	2.1	2.0	0.8	0.8	1.0	1.8
DC 3	S-P									
DC 4 CUR	3-65W	3	—	2	1	2	—	3	—	2
DC 5 F		34	35	36	37	38	39	40	41	42
DC 6 ⁿ	-25.1	1	2	3	4	5	1	2	3	4
DC 7										
DC 8	SP									
DC AVG.	6-95W									
AC 1		743.	227.	54.6	14.4	16.7	778.	147.	66.4	19.2
AC 2	+8.0	-0.0	0.0	0.0	0.0	0.0	+0.2	0.0	0.0	0.0
AC AVG.										
S.P.		-32.7					+16.8			
AC NOISE										
POT RES.										

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT 624-71 Cuprite
LINE 3 HALF SW SP. 1 DATE 4-29

PAGE 6

SEND	5-6	6-7	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4
RECEIVE	12-15 →		15-18	→				18-21	→	
RANGE	0.1	0.1	10.	1.0	1.0	0.1	0.1	1.0	1.0	1.0
DC 1										
DC 2	2.6	2.4	1.4	1.5	2.1	3.1	4.0	1.5	1.9	2.9
DC 3										
DC 4 CUR	1	2	—	3	—	2	—	—	3	—
DC 5 #	43	44	45	46	47	48	49	50	51	52
DC 6 η	5	6	2	3	4	5	6	3	4	5
DC 7										
DC 8										
DC AVG.										
AC 1	5.52	7.27	111.	40.2	23.8	8.06	5.55	42.8	20.4	14.5
AC 2	0.0	0.0	0.0	0.0	+0.2	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.			+26.3					−1.1		
AC NOISE										
POT RES.										

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT 624-71 Cuprite

LINE 3 HALF 5a SP. 1 DATE 4-29

PAGE 7

SEND	4-5	1-2	2-3	3-4						
RECEIVE	18-21	21-24	→	→						
RANGE	0.1	1.0	1.0	1.0						
DC 1										
DC 2	4.3	2.3	2.1	2.4						
DC 3										
DC 4 COR	2	—	3	—						
DC 5 #	53	54	55	56						
DC 6 %	6	4	5	6						
DC 7										
DC 8										
DC AVG.										
AC 1	5.67	40.8	23.7	19.6						
AC 2	0.6	0.0	0.0	0.0						
AC AVG.					Steel	post fence	#	20.9		
S.P.		+25.7								
AC NOISE					24	21		18		
POT RES.										

INDUCED POLARIZATION SENDER NOTES

①

Project: Cuprite 624 Line: 3 Spl NE Date: April 29

Send	3-4	4-5	5-6	6-7	4-5	5-6	6-7	5-6	6-7	6-7	5-6	4-5
Receive	9.0 - 6.0 1-2	—	—	—	2-3	—	—	3-4	—	4-5	9.0-12. NE	—
Time												
Range	450	800	530	1000	790	530	1000	530	1000	1000	530	770
Current	3.0	2.0	1.0	2.0	2.0	1.0	2.0	1.0	2.0	2.0	1.0	2.0
Send	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3	1-2			cal
Receive	—	—	—	12-15	—	—	—	—	—			3-4
Time				cut back								all freq
Range	450	510	980	480	520	760	440	790	960			
Current	3.0	2.0	2.0	1.0	1.0	2.0	3.0	3.0	2.0			2.0

INDUCED POLARIZATION SENDER NOTES

Project: Cuprite 624 Line: 3 sp1 NE/2 Date: April 29, 71

Send	6-7	5-6	4-5	3-4	2-3	6-7	5-6	4-5	3-4	6-7	5-6	4-5
Receive	15-18	—	—	—	—	18-21	—	—	—	21-24	—	—
Time												
Range	990	520	760	450	780	990	520	750	450	990	510	750
Current	2.0	1.0	2.0	3.0	3.0	2.0	1.0	2.0	3.0	2.0	1.0	2.0
Send												
Receive												
Time												
Range												
Current												

INDUCED POLARIZATION SENDER NOTES

Project: Cuprite 624 Line: 3 sp1 SW1/2 Date: April 29, 71

Send	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5	5-6	6-7	
Receive	9-12 SW	—	—	—	—	12-15	—	—	—	—	—	
Time												
Range	770	440	730	510	970	940	770	440	730	500	960	
Current	3.0	3.0	2.0	1.0	2.0	2.0	3.0	3.0	2.0	1.0	2.0	

Send	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5	1-2	2-3	3-4
Receive	15-18	—	—	—	—	18-21	—	—	—	21-24	—	—
Time												
Range	930	770	440	730	1000	930	770	440	720	930	760	430
Current	2.0	3.0	3.0	2.0	2.0	2.0	3.0	3.0	2.0	2.0	3.0	3.0

JOB 624 LINE 3 SPREAD 1 NORTHEAST 1/2 4/29/71 300 FEET=DIPOLE LENGTH
CAL GROUP NO. 1

CAL CUR	PFE	AC1	AC2	AC FREQ	DC FREQ	PFE CAL	RHO CAL
2.000	-.40	195.000	0.00	3.00	.30	-.4000	1.0256

COMPUTED DATA									FIELD DATA					
POINT NO.	N	RHO	PFE	MCF	CCPFE	CCMCF	CPFE		PFE	CUR	PT.	N	AC1	AC2
3	3	258.30	2.55	9.9	2.55	9.9	0.00	**	2.10	1.00	3	3	27.300	-.10
4	4	291.70	2.60	8.9	2.60	8.9	0.00	**	2.20	2.00	4	4	30.800	0.00
1	1	236.57	.85	3.6	.85	3.6	0.00	**	.50	3.00	1	1	762.000	.10
2	2	211.54	1.40	6.6	1.40	6.6	0.00	**	1.00	2.00	2	2	113.000	0.00
5	1	146.37	1.00	6.8	1.00	6.8	0.00	**	.60	2.00	5	1	314.000	0.00
6	2	190.75	2.10	11.0	2.10	11.0	0.00	**	1.70	1.00	6	2	50.600	0.00
7	3	220.32	2.00	9.1	2.00	9.1	0.00	**	1.60	2.00	7	3	46.800	0.00
8	1	193.96	2.00	10.3	2.00	10.3	0.00	**	1.60	1.00	8	1	206.000	0.00
9	2	261.49	1.90	7.3	1.90	7.3	0.00	**	1.50	2.00	9	2	139.000	0.00
10	1	212.63	1.70	8.0	1.70	8.0	0.00	**	1.30	2.00	10	1	453.000	0.00
11	1	290.23	1.10	3.8	1.10	3.8	0.00	**	.70	1.00	11	1	311.000	0.00
12	2	299.70	2.10	7.0	2.10	7.0	0.00	**	1.70	2.00	12	2	159.000	0.00
13	3	297.10	2.45	8.2	2.45	8.2	0.00	**	2.10	3.00	13	3	94.200	.10
14	4	218.35	2.40	11.0	2.40	11.0	0.00	**	2.00	2.00	14	4	23.100	0.00
15	5	273.47	2.60	9.5	2.60	9.5	0.00	**	2.20	2.00	15	5	16.500	0.00
16	1	612.54	.70	1.1	.70	1.1	0.00	**	.60	1.00	16	1	657.000	.60
17	2	389.38	1.40	3.6	1.40	3.6	0.00	**	1.00	1.00	17	2	104.000	0.00
18	3	396.83	2.60	6.6	2.60	6.6	0.00	**	2.20	2.00	18	3	83.800	0.00
19	4	377.30	2.70	7.2	2.70	7.2	0.00	**	2.30	3.00	19	4	59.700	0.00
20	5	269.08	2.40	8.9	2.40	8.9	0.00	**	2.00	3.00	20	5	24.400	0.00
21	6	345.41	2.80	8.1	2.80	8.1	0.00	**	2.40	2.00	21	6	13.000	0.00
22	2	575.74	.60	1.0	.60	1.0	0.00	**	.20	2.00	22	2	310.000	0.00
23	3	413.59	1.60	3.9	1.60	3.9	0.00	**	1.20	1.00	23	3	44.100	0.00
24	4	430.92	2.60	6.0	2.60	6.0	0.00	**	2.20	2.00	24	4	45.500	0.00
25	5	399.20	2.40	6.0	2.40	6.0	0.00	**	2.00	3.00	25	5	36.200	0.00
26	6	279.72	2.10	7.5	2.10	7.5	0.00	**	1.70	3.00	26	6	15.900	0.00
27	3	516.41	.70	1.4	.70	1.4	0.00	**	.40	2.00	27	3	111.000	.20
28	4	416.16	2.00	4.8	2.00	4.8	0.00	**	1.60	1.00	28	4	22.100	0.00
29	5	430.10	2.80	6.5	2.80	6.5	0.00	**	2.40	2.00	29	5	25.900	0.00
30	6	396.39	2.70	6.8	2.70	6.8	0.00	**	2.30	3.00	30	6	22.400	0.00
31	4	425.89	1.30	3.1	1.30	3.1	0.00	**	1.00	2.00	31	4	45.500	.20
32	5	341.42	2.60	7.6	2.60	7.6	0.00	**	2.20	1.00	32	5	10.300	0.00
33	6	338.75	3.20	9.4	3.20	9.4	0.00	**	2.80	2.00	33	6	12.700	0.00
34	1	230.44	.80	3.5	.80	3.5	0.00	**	.40	3.00	34	1	743.000	0.00
35	2	281.62	.80	2.8	.80	2.8	0.00	**	.40	3.00	35	2	227.000	0.00
36	3	255.78	1.50	5.9	1.50	5.9	0.00	**	1.10	2.00	36	3	54.600	0.00
37	4	272.49	2.50	9.2	2.50	9.2	0.00	**	2.10	1.00	37	4	14.400	0.00
38	5	276.24	2.40	8.7	2.40	8.7	0.00	**	2.00	2.00	38	5	16.700	0.00
39	1	363.39	1.10	3.0	1.10	3.0	0.00	**	.80	2.00	39	1	778.000	.20
40	2	183.09	1.20	6.6	1.20	6.6	0.00	**	.80	3.00	40	2	147.000	0.00
41	3	207.17	1.40	6.8	1.40	6.8	0.00	**	1.00	3.00	41	3	66.400	0.00
42	4	181.13	2.20	12.1	2.20	12.1	0.00	**	1.80	2.00	42	4	19.200	0.00
43	5	183.69	3.00	16.3	3.00	16.3	0.00	**	2.60	1.00	43	5	5.520	0.00
44	6	193.16	2.80	14.5	2.80	14.5	0.00	**	2.40	2.00	44	6	7.270	0.00
45	2	208.61	1.80	8.6	1.80	8.6	0.00	**	1.40	2.00	45	2	111.000	0.00
46	3	126.04	1.90	15.1	1.90	15.1	0.00	**	1.50	3.00	46	3	40.200	0.00
47	4	150.13	2.40	16.0	2.40	16.0	0.00	**	2.10	3.00	47	4	23.800	.20
48	5	134.76	3.50	26.0	3.50	26.0	0.00	**	3.10	2.00	48	5	8.060	0.00
49	6	149.76	4.40	29.4	4.40	29.4	0.00	**	4.00	2.00	49	6	5.550	0.00
50	3	201.29	1.90	9.4	1.90	9.4	0.00	**	1.50	2.00	50	3	42.800	0.00
51	4	128.43	2.30	17.9	2.30	17.9	0.00	**	1.90	3.00	51	4	20.400	0.00
52	5	161.31	3.30	20.5	3.30	20.5	0.00	**	2.90	3.00	52	5	14.500	0.00
53	6	153.44	4.70	30.6	4.70	30.6	0.00	**	4.30	2.00	53	6	5.670	0.00
54	4	386.78	2.70	7.0	2.70	7.0	0.00	**	2.30	2.00	54	4	40.800	0.00
55	5	261.61	2.50	9.6	2.50	9.6	0.00	**	2.10	3.00	55	5	23.700	0.00
56	6	347.18	2.80	8.1	2.80	8.1	0.00	**	2.40	3.00	56	6	19.600	0.00

Line 1 SP 2 Aug 5, 71 JAB

300.

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT 624-71 Cuprite

LINE 1 HALF ____ SP. ____ DATE ____

PAGE 1

SEND	CAL.	6-7	5-6	6-7	4-5	5-6	6-7	3-4	4-5	5-6
RECEIVE	3-4	4-5	3-4 →		2-3	→		1-2		
RANGE	10.	10.	10.	10.	10.	10.	1.0	10.	10.	1.0
DC 1										
DC 2	-0.2	1.5	3.1	2.7	3.8	~~1.3~~	2.4	4.4	4.4	3.0
DC 3						2.4				
DC 4 CUR	2.0	2.0 →								
DC 5 #	1	1	2	3	4	5	6	7	8	9
DC 6 η		1	1	2	1	2	3	1	2	3
DC 7										
DC 8										
DC AVG.										
AC 1	200.	497.	485.	202.	334.	113.	71.6	864.	192.	88.8
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.	3.0									
AC NOISE	0.3									
POT RES.										

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT 624-71 Cuprite

LINE 1 HALF SW SP. 2 DATE 8-3

PAGE 2

SEND	6-7	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5
RECEIVE	1-2	17-14				→	14-11			→
RANGE	1.0	10.	10	1.0	1.0	1.0	100.	10.	10	1.0
DC 1										
DC 2	2.8	2.7	3.2	2.9	1.5	1.6	1.7	2.6	3.0	2.2
DC 3										
DC 4 COB										→
DC 5 #	10	11	12	13	14	15	16	17	18	19
DC 6 n	4	1	2	3	4	5	1	2	3	4
DC 7										
DC 8										
DC AVG.										
AC 1	65.3	762.	248.	80.9	44.7	36.4	1280.	287.	141.	54.7
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.		+24.5					+2.3			
AC NOISE										
POT RES.										

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT 624-71 CUPRITE

LINE 1 HALF SW SP. 2 DATE 8-3

SEND	5-6	6-7	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4
RECEIVE	11-11	→	11-8SW				→	8-5		
RANGE	1.0	1.0	10.	1.0	1.0	1.0	1.0	10.	1.0	1.0
DC 1										
DC 2	0.8	1.0	2.0	3.0	3.4	2.4	1.4	2.1	3.0	3.4
DC 3										
DC 4 CUR										
DC 5 #	20	21	22	23	24	25	26	27	28	29
DC 6 n	5	6	2	3	4	5	6	3	4	3
DC 7										
DC 8										
DC AVG.										
AC 1	32.6	28.3	331.	95.6	55.2	23.4	15.0	152.	51.9	32.8
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.			+2.6					-2.2		
AC NOISE										
POT RES.										

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT 624-71 CUPRITE

LINE 1 HALF SW SP. 2 DATE

PAGE 4

SEND	4-5	1-2	2-3	3-4			23-20	20-17		
RECEIVE	8-5	5-2	→	→			S-P	S-P		
RANGE	1.0	1.0	1.0	1.0						
DC 1										
DC 2	2.4	2.1	2.8	3.0						
DC 3										
DC 4 CUR										
DC 5 #	30	31	32	33						
DC 6 "	6	4	5	6						
DC 7										
DC 8										
DC AVG.										
AC 1	14.7	95.0	38.2	25.8						
AC 2	0.0	0.0	0.0	0.0						
AC AVG.										
S.P.		-10.8					-23.8	+21.2		
AC NOISE										
POT RES.										

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT 624 CUPRITE
LINE 1 HALF NE SP. 2 DATE 8-3-71

SEND	S.P.	S.P.	S.P.	S.P.	5-6	4-5	3-4	2-3	1-2	6-7
RECEIVE	23-26	26-29	29-32	32-35	35-38	→				38-41
RANGE					10	10	1.0	1.0	1.0	10
DC 1					0.8	1.7	2.9	2.2	2.6	0.5
DC 2										
DC 3 CuB										
DC 4 F	(mt/s numbers)				34	35	36	37	38	39
DC 5 η					1	2	3	4	5	1
DC 6										
DC 7										
DC 8										
DC AVG.										
AC 1					404.	132.	87.0	39.9	37.5	337.
AC 2					—	—	—	—	—	—
AC AVG.										
S.P.	+10.6	−47.2	+1.1	−5.3	−51.4					+16.7
AC NOISE										
POT RES.	4K	40K	18K	8K	3K					3K

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT 624 CUPRITE

LINE / HALF NE SP. 2 DATE 8-3-71

SEND	5-6	4-5	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3
RECEIVE	38-41	→	→	→	→	41-44	→	→	→	→
RANGE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
DC 1	0.6	1.5	2.6	1.9	2.2	0.5	0.7	1.7	2.9	2.4
DC 2										
DC 3 CUR										
DC 4 #	40	41	42	43	44	45	46	47	48	49
DC 5 n	2	3	4	5	6	2	3	4	5	6
DC 6										
DC 7										
DC 8										
DC AVG.										
AC 1	60.1	30.0	25.8	13.2	14.0	152.	39.0	23.8	22.5	12.5
AC 2	—	—	—	—	—	—	—	—	—	—
AC AVG.										
S.P.						+43.6				
AC NOISE										
POT RES.						3K				

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT 624 Cupreite

LINE 1 HALF NE SP. 2 DATE 8-3-71

PAGE 7

SEND	6-7	5-6	4-5	3-4	6-7	5-6	4-5			
RECEIVE	44.47	→			47.50	→				
RANGE	1.0	1.0	1.0	1.0	1.0	1.0	0.1			
DC 1	0.9	0.8	1.8	3.1	1.7	1.2	1.6			
DC 2										
DC 3 CUB										
DC 4 Z	50	51	52	53	54	55	56			
DC 5 "	3	4	5	6	4	5	6			
DC 6										
DC 7										
DC 8										
DC AVG.										
AC 1	86.8	26.6	15.3	15.1	32.5	11.8	8.20			
AC 2	—	—	—	—	—	—	—			
AC AVG.										
S.P.	-27.3				-15.4					
AC NOISE										
POT RES.	3k				3k					

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PAGE 4

PROJECT 624-71 Cyprus

LINE 1 HALF NE SP. 2 DATE 8-3

SEND	6-7	5-6	45							
RECEIVE	47-50	→	→							
RANGE	4-B	→	→							
VOLTAGE	360	230	230							
CURRENT	2.0	2.0	2.0							
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES 30 0.3

SENDER NO. 9662-5

OPERATOR 64

RECEIVER NO. 13691 R

OPERATOR 26

COMMENTS:

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT 624-71 CUPRITE

LINE 1 HALF NE SP. 2 DATE 8-3

SEND	5-6	4-5	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3
RECEIVE	35-38	—	—	—	→	38-41	—	—	—	—
RANGE	4-B	2-C	2-C	4-B	4-B	4-B	4B	4B	4B	4B
VOLTAGE	225	210	290	260	340	360	225	230	290	270
CURRENT	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
SEND	1-2	6-7	5-6	4-5	3-4	2-3	6-7	5-6	4-5	3-4
RECEIVE	38-41	41-44	—	—	—	→	44-47	—	—	→
RANGE	4B	4-B	4-B	4-B	4-B	4-B	4-B	4-B	4-B	4-B
VOLTAGE	340	360	230	230	290	270	360	230	230	290
CURRENT	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0

FREQUENCIES 3.0 0.3

SENDER NO. 9662-5

OPERATOR 64

RECEIVER NO. 18691

OPERATOR 26

COMMENTS:

1 2 5 8 11 14 17 20 23 26 29 32

PAGE 1

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT 624-21 Cupriite

LINE 1 HALF S SP. 2 DATE 8-3

SEND	CAL	6-7	5-6	6-7	4-5	5-6	6-7	3-4	4-5	5-6
RECEIVE	3-4	4-5	3-4	→	2-3	→		1-2	→	
RANGE	10X200	10X200	10X200	10X200	10X200	10X200	10X200	10X200	10X200	10X200
VOLTAGE	300	360	230	360	230	230	360	290	230	230
CURRENT	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
SEND	6-7	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5
RECEIVE	1-2	17-14	→			→	14-11	→		
RANGE	10X200	10X200	10X200	10X200	10X200	10X200	10X200	10X200	10X200	10X200
VOLTAGE	360	260	290	230	230	360	330	260	290	230
CURRENT	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0

FREQUENCIES 3 0.3

SENDER NO. MS-7 9662-S

OPERATOR FREEMAN 26

RECEIVER NO. 18691-R

OPERATOR HIX - 64

COMMENTS:

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT 624 - CUPRITE

LINE 1 HALF E SP. 2 DATE 8-3-71

SEND	5-6	6-7	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4
RECEIVE	14-11	→	11-8	—	—	—	→	8-5	—	→
RANGE	10X200	10X200	10X200	10X200	10X200	10X200	10X200	10X200	10X200	10X200
VOLTAGE	230	360	330	260	290	230	230	340	260	290
CURRENT	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
SEND	4-5	1-2	2-3	3-4						
RECEIVE	8-5	5-2	—	→						
RANGE	10X200	10X200	10X200	10X200						
VOLTAGE	230	340	270	290						
CURRENT	2.0	2.0	2.0	2.0						

FREQUENCIES 3 0.3

SENDER NO. MK 5-7 9662-S

OPERATOR FREEMAN 26

RECEIVER NO. 18691-R

OPERATOR HIX 64

COMMENTS:

JOB 624 LINE # SPREAD 2 8/5/71 300 FEET=DIPOLE LENGTH
CAL GROUP NO. 1

CAL CUR	PFE	AC1	AC2	AC FREQ	DC FREQ	PFE CAL	RHO CAL
2.000	-.20	200.000	0.00	3.00	.30	-.2000	1.0000

COMPUTED DATA									FIELD DATA					
POINT NO.	N	RHO	PFE	MCF	CCPFE	CCMCF	CPFE		PFE	CUR	PT.	N	AC1	AC2
1	1	227.45	1.70	7.5	1.70	7.5	0.00	**	1.50	2.00	1	1	497.000	0.00
2	1	225.45	3.30	14.6	3.30	14.6	0.00	**	3.10	2.00	2	1	485.000	0.00
3	2	374.14	2.90	7.8	2.90	7.8	0.00	**	2.70	2.00	3	2	202.000	0.00
4	1	156.31	4.00	25.6	4.00	25.6	0.00	**	3.80	2.00	4	1	334.000	0.00
5	2	208.69	2.60	12.5	2.60	12.5	0.00	**	2.40	2.00	5	2	113.000	0.00
6	3	330.58	2.60	7.9	2.60	7.9	0.00	**	2.40	2.00	6	3	71.600	0.00
7	1	406.68	4.60	11.3	4.60	11.3	0.00	**	4.40	2.00	7	1	864.000	0.00
8	2	361.50	4.60	12.7	4.60	12.7	0.00	**	4.40	2.00	8	2	192.000	0.00
9	3	412.39	3.20	7.8	3.20	7.8	0.00	**	3.00	2.00	9	3	88.800	0.00
10	4	605.33	3.00	5.0	3.00	5.0	0.00	**	2.80	2.00	10	4	65.300	0.00
11	1	352.84	2.90	8.2	2.90	8.2	0.00	**	2.70	2.00	11	1	762.000	0.00
12	2	461.58	3.40	7.4	3.40	7.4	0.00	**	3.20	2.00	12	2	248.000	0.00
13	3	375.34	3.10	8.3	3.10	8.3	0.00	**	2.90	2.00	13	3	80.900	0.00
14	4	409.14	1.70	4.2	1.70	4.2	0.00	**	1.50	2.00	14	4	44.700	0.00
15	5	583.62	1.80	3.1	1.80	3.1	0.00	**	1.60	2.00	15	5	36.400	0.00
16	1	586.94	1.90	3.2	1.90	3.2	0.00	**	1.70	2.00	16	1	1280.000	0.00
17	2	531.06	2.80	5.3	2.80	5.3	0.00	**	2.60	2.00	17	2	287.000	0.00
18	3	654.80	3.20	4.9	3.20	4.9	0.00	**	3.00	2.00	18	3	141.000	0.00
19	4	504.12	2.40	4.8	2.40	4.8	0.00	**	2.20	2.00	19	4	54.700	0.00
20	5	518.58	1.00	1.9	1.00	1.9	0.00	**	.80	2.00	20	5	32.600	0.00
21	6	721.72	1.20	1.7	1.20	1.7	0.00	**	1.00	2.00	21	6	28.300	0.00
22	2	608.91	2.20	3.6	2.20	3.6	0.00	**	2.00	2.00	22	2	331.000	0.00
23	3	443.97	3.20	7.2	3.20	7.2	0.00	**	3.00	2.00	23	3	95.600	0.00
24	4	514.68	3.60	7.0	3.60	7.0	0.00	**	3.40	2.00	24	4	55.200	0.00
25	5	378.13	2.60	6.9	2.60	6.9	0.00	**	2.40	2.00	25	5	23.400	0.00
26	6	384.05	1.60	4.2	1.60	4.2	0.00	**	1.40	2.00	26	6	15.000	0.00
27	3	699.73	2.30	3.3	2.30	3.3	0.00	**	2.10	2.00	27	3	152.000	0.00
28	4	482.05	3.20	6.6	3.20	6.6	0.00	**	3.00	2.00	28	4	51.900	0.00
29	5	535.20	3.60	6.7	3.60	6.7	0.00	**	3.40	2.00	29	5	32.800	0.00
30	6	380.07	2.60	6.8	2.60	6.8	0.00	**	2.40	2.00	30	6	14.700	0.00
31	4	874.66	2.30	2.6	2.30	2.6	0.00	**	2.10	2.00	31	4	95.000	0.00
32	5	619.70	3.00	4.8	3.00	4.8	0.00	**	2.80	2.00	32	5	38.200	0.00
33	6	670.97	3.20	4.8	3.20	4.8	0.00	**	3.00	2.00	33	6	25.800	0.00
34	1	183.62	1.00	5.4	1.00	5.4	0.00	**	.80	2.00	34	1	404.000	0.00
35	2	242.11	1.90	7.8	1.90	7.8	0.00	**	1.70	2.00	35	2	132.000	0.00
36	3	403.64	3.10	7.7	3.10	7.7	0.00	**	2.90	2.00	36	3	87.000	0.00
37	4	367.72	2.40	6.5	2.40	6.5	0.00	**	2.20	2.00	37	4	39.900	0.00
38	5	607.16	2.80	4.6	2.80	4.6	0.00	**	2.60	2.00	38	5	37.500	0.00
39	1	152.71	.70	4.6	.70	4.6	0.00	**	.50	2.00	39	1	337.000	0.00
40	2	109.05	.80	7.3	.80	7.3	0.00	**	.60	2.00	40	2	60.100	0.00
41	3	137.29	1.70	12.4	1.70	12.4	0.00	**	1.50	2.00	41	3	30.000	0.00
42	4	238.70	2.80	11.7	2.80	11.7	0.00	**	2.60	2.00	42	4	25.800	0.00
43	5	212.27	2.10	9.9	2.10	9.9	0.00	**	1.90	2.00	43	5	13.200	0.00
44	6	361.27	2.40	6.6	2.40	6.6	0.00	**	2.20	2.00	44	6	14.000	0.00
45	2	275.52	.70	2.5	.70	2.5	0.00	**	.50	2.00	45	2	152.000	0.00
46	3	177.08	.90	5.1	.90	5.1	0.00	**	.70	2.00	46	3	39.000	0.00
47	4	218.27	1.90	8.7	1.90	8.7	0.00	**	1.70	2.00	47	4	23.800	0.00
48	5	365.36	3.10	8.5	3.10	8.5	0.00	**	2.90	2.00	48	5	22.500	0.00
49	6	323.19	2.60	8.0	2.60	8.0	0.00	**	2.40	2.00	49	6	12.500	0.00
50	3	394.90	1.10	2.8	1.10	2.8	0.00	**	.90	2.00	50	3	86.800	0.00
51	4	241.79	1.00	4.1	1.00	4.1	0.00	**	.80	2.00	51	4	26.600	0.00
52	5	245.79	2.00	8.1	2.00	8.1	0.00	**	1.80	2.00	52	5	15.300	0.00
53	6	393.08	3.30	8.4	3.30	8.4	0.00	**	3.10	2.00	53	6	15.100	0.00
54	4	298.06	1.90	6.4	1.90	6.4	0.00	**	1.70	2.00	54	4	32.500	0.00
55	5	188.45	1.40	7.4	1.40	7.4	0.00	**	1.20	2.00	55	5	11.800	0.00
56	6	210.36	1.80	8.6	1.80	8.6	0.00	**	1.60	2.00	56	6	8.200	0.00

Line 5 Sp 1 8/4/71 300.

stated as (1A)

INDUCED POLARIZATION RECEIVER NOTES PAGE _____

Project: _____ Line: _____ Int.Cal _____ Date: _____

Send												
Rec.												
Time												
DC-1												
DC-2												
Σ												
DC-3												
Dc-4												
Σ												
DC-AV												
AC-1												
AC-2												
Σ												
S. P.												
AC-N												
Pot. Res												

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT 624 CUPRITE
LINE 1A HALF SW SP. 1 DATE 8-4-71

PAGE 1

SEND	CAL	6-7	5-6	6-7	4-5	5-6	6-7	3-4	4-5	5-6
RECEIVE	3-4	4-5	3-4	→	2-3	→	→	1-2	→	→
RANGE	10	10	10	10	10	10	10	10	10	10
DC 1	-0.1	3.6	4.1	3.7	4.2	4.2	3.9	3.0	4.3	3.7
DC 2										
DC 3 CUR	2.0	3.								
DC 4 #	1	1	2	3	4	5	6	7	8	9
DC 5 n		1	1	2	1	2	3	1	2	3
DC 6										
DC 7										
DC 8										
DC AVG.										
AC 1	201.	386.	571.	158.	759.	221.	97.9	946.	249.	117.
AC 2	—	—	—	—	—	—	—	—	—	—
AC AVG.										
S.P.	8.0									
AC NOISE	0.3									
POT RES.										

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT 624 CUPRITE

LINE 1A HALF SW SP. 1 DATE 8-4-71

SEND	6-7	S.P.	S.P.	S.P.	2-3	3-4	4-5	5-6	6-7	1-2
RECEIVE	1-2	0-3 SW	3-6 SW	6-9 SW	9-12	→				12-15 SW
RANGE	1.0				100	10	10	1.0	1.0	100.
DC 1	3.1				2.7	2.9	3.7	3.2	2.6	2.3
DC 2										
DC 3 CUR	3				3					2.
DC 4 #	10				11	12	13	14	15	16
DC 5 n	4				1	2	3	4	5	1
DC 6										
DC 7										
DC 8										
DC AVG.										
AC 1	70.3				1710.	275.	108.	61.9	43.8	1740.
AC 2	—				—	—	—	—	—	—
AC AVG.										
S.P.		+8.2	-8.6	-9.4	-22.0					-10.0
AC NOISE										
POT RES.		1.5K	3K	3K	2K					2.5K

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT 624 Coprite
LINE 1A HALF SW SP. 1 DATE 8-4-11

PAGE 3

SEND	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5	5-6
RECEIVE	12-15	→	→	→	→	15-18	→	→	→	→
RANGE	10	10	1.0	1.0	1.0	10	10	1.0	1.0	1.0
DC 1	2.7	2.9	3.7	3.1	2.7	2.6	2.9	3.3	4.1	3.4
DC 2										
DC 3 Cur	3					2.	3.			
DC 4 #	17	18	19	20	21	22	23	24	25	26
DC 5 n	2	3	4	5	6	2	3	4	5	6
DC 6										
DC 7										
DC 8										
DC AVG.										
AC 1	440.	106.	51.3	33.7	26.2	530.	192.	62.1	36.0	25.5
AC 2	—	—	—	—	—	—	—	—	—	—
AC AVG.										
S.P.						+ 4.7				
AC NOISE										
POT RES.						1.5 K				

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT 624 CUPRITE
LINE 1A HALF SW SP. 1 DATE 8-4-72

PAGE 4

SEND	1-2	2-3	3-4	4-5	1-2	2-3	3-4			
RECEIVE	18-21	→	→	→	21-24	→	→			
RANGE	1.0	1.0	1.0	1.0	1.0	1.0	1.0			
DC 1	1.9	2.3	2.8	3.3	1.7	2.2	2.4			
DC 2										
DC 3 CUR	2.	3.	—	—	2.	—	—			
DC 4 #	29	28	26	20	31	33	37			
DC 5 n	3	4	5	6	4	5	6			
DC 6										
DC 7										
DC 8										
DC AVG.										
AC 1	162.	77.8	31.8	21.4	54.0	35.3	17.3			
AC 2	—	—	—	—	—	—	—			
AC AVG.										
S.P.	-40.5				-0.8					
AC NOISE										
POT RES.	3K				3K					

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT 624 Corrito

LINE 1A HALF NE SP. 1 DATE 8-4-71

SEND	S.P.	S.P.	S.P.	5-6	4-5	3-4	2-3	1-2	6-7	5-6
RECEIVE	0-3N	3-6	6-9.	9-12	→	→	→	→	12-15	→
RANGE				10.	10.	10	10	10	10.	10.
DC 1										
DC 2				2.2	2.5	2.8	2.7	1.9	1.4	2.2
DC 3										
DC 4 CUR				3						4
DC 5 #				34	35	36	37	38	39	40
DC 6 n				1	2	3	4	5	1	2
DC 7										
DC 8										
DC AVG.										
AC 1				448.	121.	70.4	53.6	29.6	804.	157.
AC 2				0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.	+2.5	-23.0	+35.4	-25.5					+3.7	
AC NOISE										
POT RES.										

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT 624 CUPRITE
LINE 1A HALF N E SP. 1 DATE 8-4-71

PAGE 6

SEND	4-5	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3	6-7
RECEIVE	12-15 N			S	15-18 N					18-21
RANGE	1.0	1.0	1.0	1.0	10.	1.0	1.0	1.0	1.0	10.
DC 1										
DC 2	2.5	2.6	2.4	1.7	2.3	2.8	3.2	3.1	3.1	2.7
DC 3										
DC 4 CUR			3.	2.	3	4.			3	
DC 5 #	41	42	43	44	45	46	47	48	49	50
DC 6 3	3	4	5	6	2	3	4	5	6	3
DC 7										
DC 8										
DC AVG.										
AC 1	66.3	46.2	29.6	17.9	331.	93.5	46.6	35.0	23.4	122.
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.					-4.0					+5.6
AC NOISE										
POT RES.										

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT 624 Cuprite
LINE 1A HALF NG SP. 1 DATE 8-4-77

PAGE 7

SEND	5-6	4-5	3-4	6-7	5-6	4-5				
RECEIVE	18-21	→		21-24	→					
RANGE	1.0	1.0	1.0	1.0	1.0	1.0				
DC 1										
DC 2	3.3	3.5	3.5	3.3	3.5	3.7				
DC 3										
DC 4 CUB	4.	—	—	3.	4.	4.				
DC 5 E	57	52	53	54	57	56				
DC 6 N	4	5	6	4	5	6				
DC 7										
DC 8										
DC AVG.										
AC 1	45.2	25.5	20.1	53.4	24.5	15.1				
AC 2	0.0	0.0	0.0	0.0	0.0	0.0				
AC AVG.										
S.P.				-12.2						
AC NOISE										
POT RES.										

SENDER NOTES

HEINRICHS GEOEXPLORATION CO.

I.P. ~~RECEIVER~~ NOTES

PROJECT 624 CUPRITE

LINE 1A HALF SW SP. 1 DATE 8-4-71

SEND	CAL	6-7	5-6	6-7	4-5	5-6	6-7	3-4	4-5	5-6
RECEIVE	3-4	4-5	3-4	→	2-3	→	→	1-2	→	→
RANGE	4B	4-B	4-B	4-B	4-B	4B	4-B	4-B	4-B	4-B
~~DC 1~~ V.	130	380	250	380	215	260	375	200	215	260
DC 2 A.	2.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
DC 3										
DC 4										
DC 5										
DC 6										
DC 7										
DC 8	6-7	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5
DC AVG.	1-2	9-12SW	→	→	→	→	12-15	→	→	→
~~AC 1~~ Range	4-B	4-B	→	→	→	→	4-B	→	→	→
AC 2 V.	375	390	200	210	250	370	300	390	190	210
~~AC AVG.~~ A	3.0	3.0	3.0	3.0	3.0	3.0	2.0	3.0	3.0	3.0
S.P.										
AC NOISE										
POT RES.										

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT 624 Cupriite

LINE 1A HALF SW SP. 1 DATE 8-4-11

SEND	5-6	6-7	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4
RECEIVE	12-15	→	15-18	SW	→	→	→	18-21	SW	→
RANGE	H-B	H-B	H-B	→	→	→	→	H-B	→	→
DC 1 V.	250	370	300	390	190	210	250	300	390	190
DC 2 A.	3.0	3.0	2.0	3.0	3.0	3.0	3.0	2.0	3.0	3.0
DC 3										
DC 4										
DC 5										
DC 6										
DC 7										
DC 8	4-5	1-2	2-3	3-4						
DC AVG.	18-21	21-24	→	→						
AC 1 Range	H-B	H-B	→	→						
AC 2 V.	210	300	390	190						
AC AVG. A	3.0	2.0	3.0	3.0						
S.P.										
AC NOISE										
POT RES.										

MK 5-7

SENDER NOTE 5

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT 624 CUPRITE

LINE 1A HALF NE SP. 1 DATE 8-4-71

SEND	5-6	4-5	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3
RECEIVE	9-12	NE →			→	12-15	→			
RANGE	10x300	10x300	10x300	10x300	10x200	10x300	10x400	10x400	10x400	10x300
DC 1 ~~V~~	290	210	190	380	290	370	330	280	250	380
DC 2 ~~A~~	3.0	3.0	3.0	3.0	2.0	3.0	4.0	4.0	4.0	3.0
DC 3										
DC 4										
DC 5										
DC 6										
DC 7										
~~DC 8~~ S.	1-2	6-7	5-6	4-5	3-4	2-3	6-7	5-6	4-5	3-4
~~DC AVG~~ R	12-15	15-18	→			→	18-21	→		
AC 1 ~~V~~	10x200	10x300	10x400	10x400	10x400	10x300	10x300	10x400	10x400	10x400
AC 2 N	290	370	330	280	250	380	360	330	270	250
AC AVG.	2.0	3.0	4.0	4.0	4.0	3.0	3.0	4.0	4.0	4.0
S.P.										
AC NOISE										
POT RES.										

HEINRICHS GEOEXPLORATION CO.

SENDER NOTES

I.P. RECEIVER NOTES

PROJECT 624 GORITE

LINE 1A HALF NE SP. 1 DATE 8-4-2

PAGE 4

SEND	6-7	5-6	4-5							
RECEIVE	21-24	→	→							
RANGE	10x300	10x400	10x400							
DC 1	360	330	270							
DC 2	3.0	4.0	4.0							
DC 3										
DC 4										
DC 5										
DC 6										
DC 7										
DC 8										
DC AVG.										
AC 1										
AC 2										
AC AVG.										
S.P.										
AC NOISE										
POT RES.										

JOB 624 LINE 5 SPREAD 1 8/4/71 300 FEET=DIPOLE LENGTH
CAL GROUP NO. 1

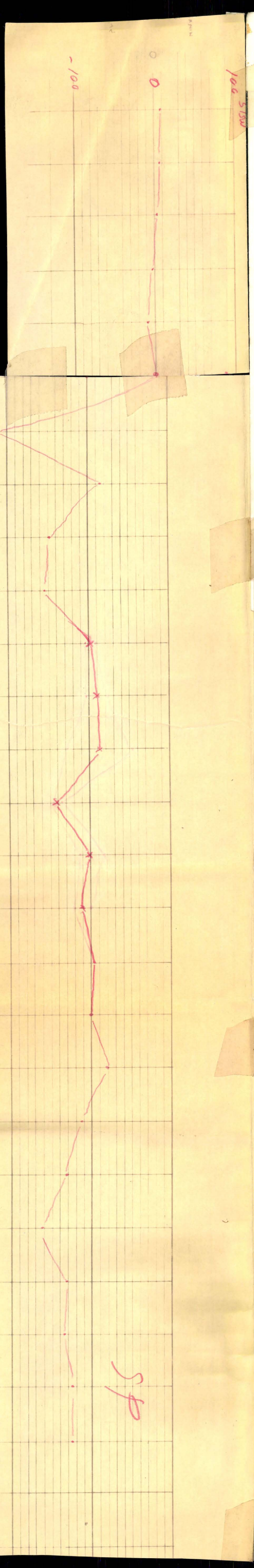
CAL CUR	PFE	AC1	AC2	AC FREQ	DC FREQ	PFE CAL	RHO CAL
2.000	-.10	201.000	0.00	3.00	.30	-.1000	.9950

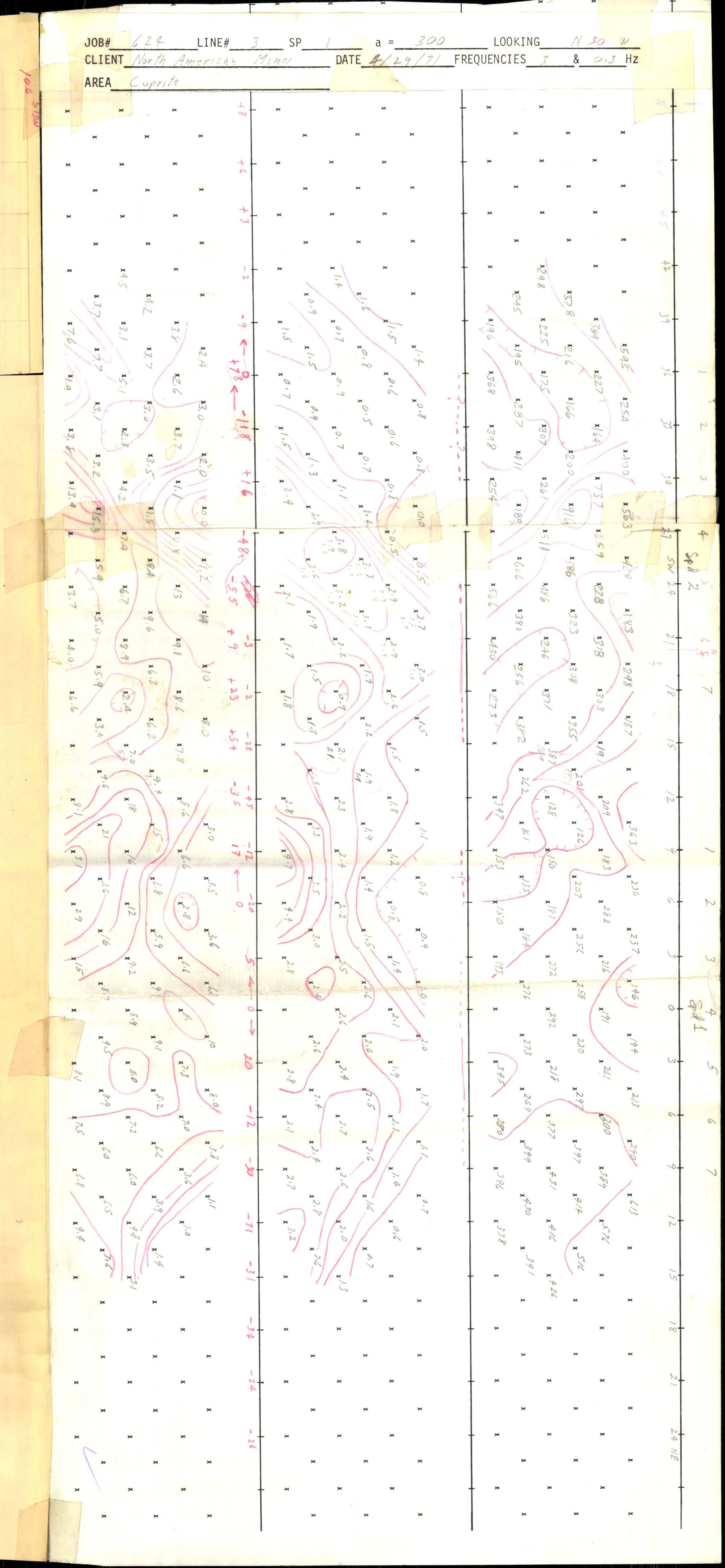
COMPUTED DATA									FIELD DATA					
POINT NO.	N	RHO	PFE	MCF	CCPFE	CCMCF	CPFE		PFE	CUR	PT.	N	AC1	AC2
1	1	119.49	3.70	31.0	3.70	31.0	0.00	**	3.60	3.00	1	1	386.000	0.00
2	1	177.61	4.20	23.6	4.20	23.6	0.00	**	4.10	3.00	2	1	571.000	0.00
3	2	195.83	3.80	19.4	3.80	19.4	0.00	**	3.70	3.00	3	2	158.000	0.00
4	1	236.31	4.30	18.2	4.30	18.2	0.00	**	4.20	3.00	4	1	759.000	0.00
5	2	275.23	4.30	15.6	4.30	15.6	0.00	**	4.20	3.00	5	2	221.000	0.00
6	3	303.93	4.00	13.2	4.00	13.2	0.00	**	3.90	3.00	6	3	97.900	0.00
7	1	291.14	3.10	10.6	3.10	10.6	0.00	**	3.00	3.00	7	1	946.000	0.00
8	2	310.40	4.40	14.2	4.40	14.2	0.00	**	4.30	3.00	8	2	249.000	0.00
9	3	362.53	3.80	10.5	3.80	10.5	0.00	**	3.70	3.00	9	3	117.000	0.00
10	4	433.13	3.20	7.4	3.20	7.4	0.00	**	3.10	3.00	10	4	70.300	0.00
11	1	524.74	2.80	5.3	2.80	5.3	0.00	**	2.70	3.00	11	1	1710.000	0.00
12	2	338.21	3.00	8.9	3.00	8.9	0.00	**	2.90	3.00	12	2	275.000	0.00
13	3	334.64	3.80	11.4	3.80	11.4	0.00	**	3.70	3.00	13	3	108.000	0.00
14	4	381.75	3.30	8.6	3.30	8.6	0.00	**	3.20	3.00	14	4	61.900	0.00
15	5	469.97	2.70	5.7	2.70	5.7	0.00	**	2.60	3.00	15	5	43.800	0.00
16	1	797.80	2.40	3.0	2.40	3.0	0.00	**	2.30	2.00	16	1	1740.000	0.00
17	2	540.08	2.80	5.2	2.80	5.2	0.00	**	2.70	3.00	17	2	440.000	0.00
18	3	325.91	3.00	9.2	3.00	9.2	0.00	**	2.90	3.00	18	3	106.000	0.00
19	4	317.91	3.80	12.0	3.80	12.0	0.00	**	3.70	3.00	19	4	51.300	0.00
20	5	363.36	3.20	8.8	3.20	8.8	0.00	**	3.10	3.00	20	5	33.700	0.00
21	6	450.23	2.80	6.2	2.80	6.2	0.00	**	2.70	3.00	21	6	26.200	0.00
22	2	974.88	2.70	2.8	2.70	2.8	0.00	**	2.60	2.00	22	2	530.000	0.00
23	3	590.33	3.00	5.1	3.00	5.1	0.00	**	2.90	3.00	23	3	192.000	0.00
24	4	383.35	3.40	8.9	3.40	8.9	0.00	**	3.30	3.00	24	4	62.100	0.00
25	5	391.92	4.20	10.7	4.20	10.7	0.00	**	4.10	3.00	25	5	36.000	0.00
26	6	441.19	3.50	7.9	3.50	7.9	0.00	**	3.40	3.00	26	6	25.500	0.00
27	3	739.88	2.00	2.7	2.00	2.7	0.00	**	1.90	2.00	27	3	162.000	0.00
28	4	475.63	2.40	5.0	2.40	5.0	0.00	**	2.30	3.00	28	4	77.800	0.00
29	5	341.87	2.90	8.5	2.90	8.5	0.00	**	2.80	3.00	29	5	31.800	0.00
30	6	369.89	3.40	9.2	3.40	9.2	0.00	**	3.30	3.00	30	6	21.400	0.00
31	4	492.29	1.80	3.7	1.80	3.7	0.00	**	1.70	2.00	31	4	54.000	0.00
32	5	565.93	2.30	4.1	2.30	4.1	0.00	**	2.20	2.00	32	5	35.300	0.00
33	6	444.64	2.50	5.6	2.50	5.6	0.00	**	2.40	2.00	33	6	17.300	0.00
34	1	136.81	2.30	16.8	2.30	16.8	0.00	**	2.20	3.00	34	1	448.000	0.00
35	2	148.23	2.60	17.5	2.60	17.5	0.00	**	2.50	3.00	35	2	121.000	0.00
36	3	216.24	2.90	13.4	2.90	13.4	0.00	**	2.80	3.00	36	3	70.400	0.00
37	4	328.96	2.80	8.5	2.80	8.5	0.00	**	2.70	3.00	37	4	53.600	0.00
38	5	315.44	2.00	6.3	2.00	6.3	0.00	**	1.90	3.00	38	5	29.600	0.00
39	1	243.60	1.50	6.2	1.50	6.2	0.00	**	1.40	3.00	39	1	804.000	0.00
40	2	143.83	2.30	16.0	2.30	16.0	0.00	**	2.20	4.00	40	2	157.000	0.00
41	3	152.29	2.60	17.1	2.60	17.1	0.00	**	2.50	4.00	41	3	66.300	0.00
42	4	212.45	2.70	12.7	2.70	12.7	0.00	**	2.60	4.00	42	4	46.200	0.00
43	5	316.99	2.50	7.9	2.50	7.9	0.00	**	2.40	3.00	43	5	29.600	0.00
44	6	456.91	1.80	3.9	1.80	3.9	0.00	**	1.70	2.00	44	6	17.900	0.00
45	2	404.71	2.40	5.9	2.40	5.9	0.00	**	2.30	3.00	45	2	331.000	0.00
46	3	215.40	2.90	13.5	2.90	13.5	0.00	**	2.80	4.00	46	3	93.500	0.00
47	4	215.54	3.30	15.3	3.30	15.3	0.00	**	3.20	4.00	47	4	46.600	0.00
48	5	283.03	3.20	11.3	3.20	11.3	0.00	**	3.10	4.00	48	5	35.000	0.00
49	6	403.68	3.20	7.9	3.20	7.9	0.00	**	3.10	3.00	49	6	23.400	0.00
50	3	374.38	2.80	7.5	2.80	7.5	0.00	**	2.70	3.00	50	3	122.000	0.00
51	4	209.27	3.40	16.2	3.40	16.2	0.00	**	3.30	4.00	51	4	45.200	0.00
52	5	207.01	3.60	17.4	3.60	17.4	0.00	**	3.50	4.00	52	5	25.500	0.00
53	6	261.07	3.60	13.8	3.60	13.8	0.00	**	3.50	4.00	53	6	20.100	0.00
54	4	329.65	3.40	10.3	3.40	10.3	0.00	**	3.30	3.00	54	4	53.400	0.00
55	5	198.89	3.60	18.1	3.60	18.1	0.00	**	3.50	4.00	55	5	24.500	0.00
56	6	196.51	3.80	19.3	3.80	19.3	0.00	**	3.70	4.00	56	6	15.100	0.00

JOB# 624 LINE# 3 SP 1 a = 300 LOOKING N 30 W

CLIENT North American Miner DATE 4/29/71 FREQUENCIES 3 & 0.3 Hz

AREA Cuprite





JOB# 624 LINE# 1 SP 1 a = 1000' LOOKING N 23° W (SW½) N 28° W (NE½)

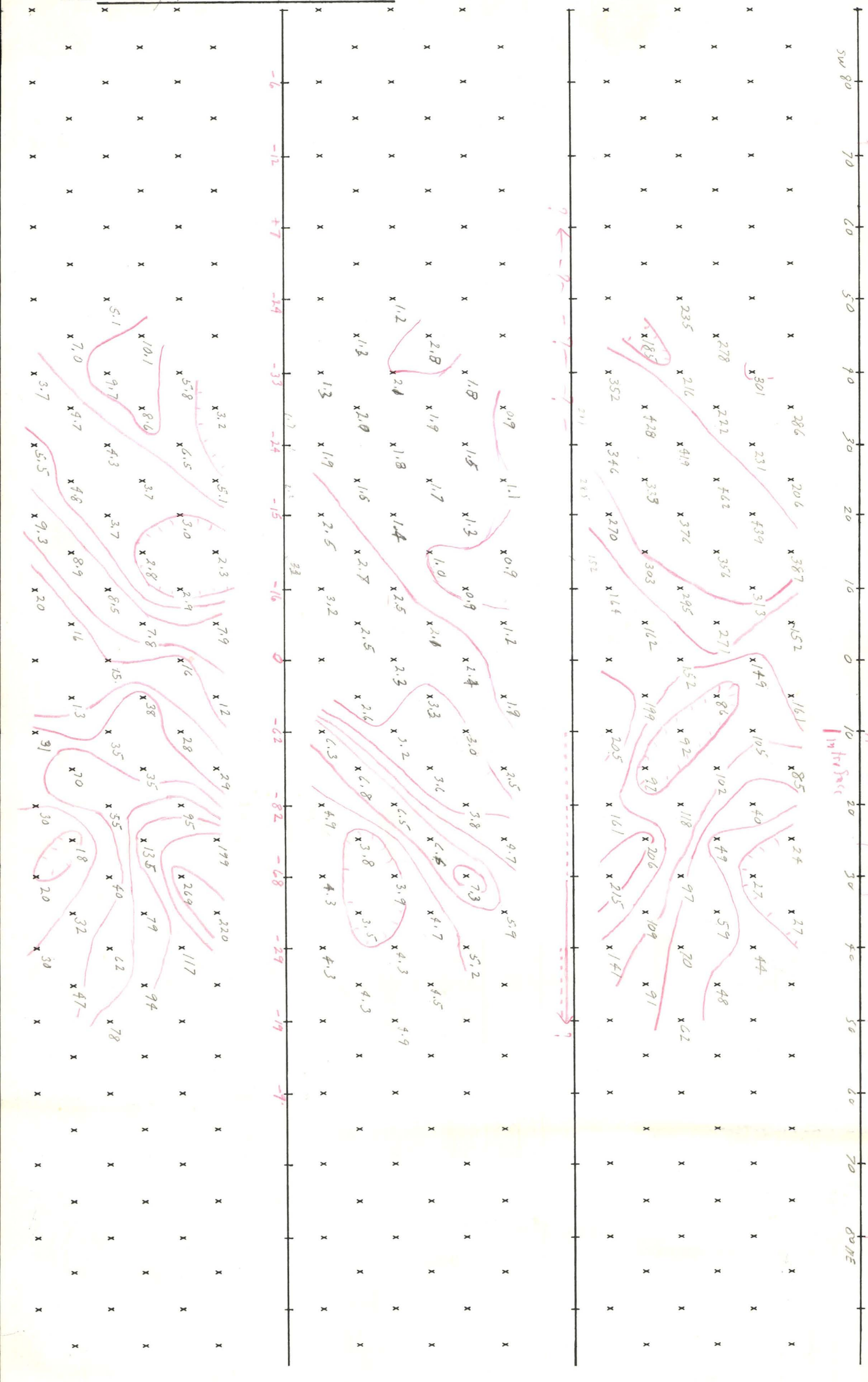
CLIENT NAM DATE April 1971 FREQUENCIES 0.3 & 3.0 Hz

AREA Cupro to Mine

JOB# 624 LINE# 4 SP 1 a = 1000 LOOKING N 36 ½ W

CLIENT North American Mines DATE 6/23/71 FREQUENCIES 3 & 0.3 Hz

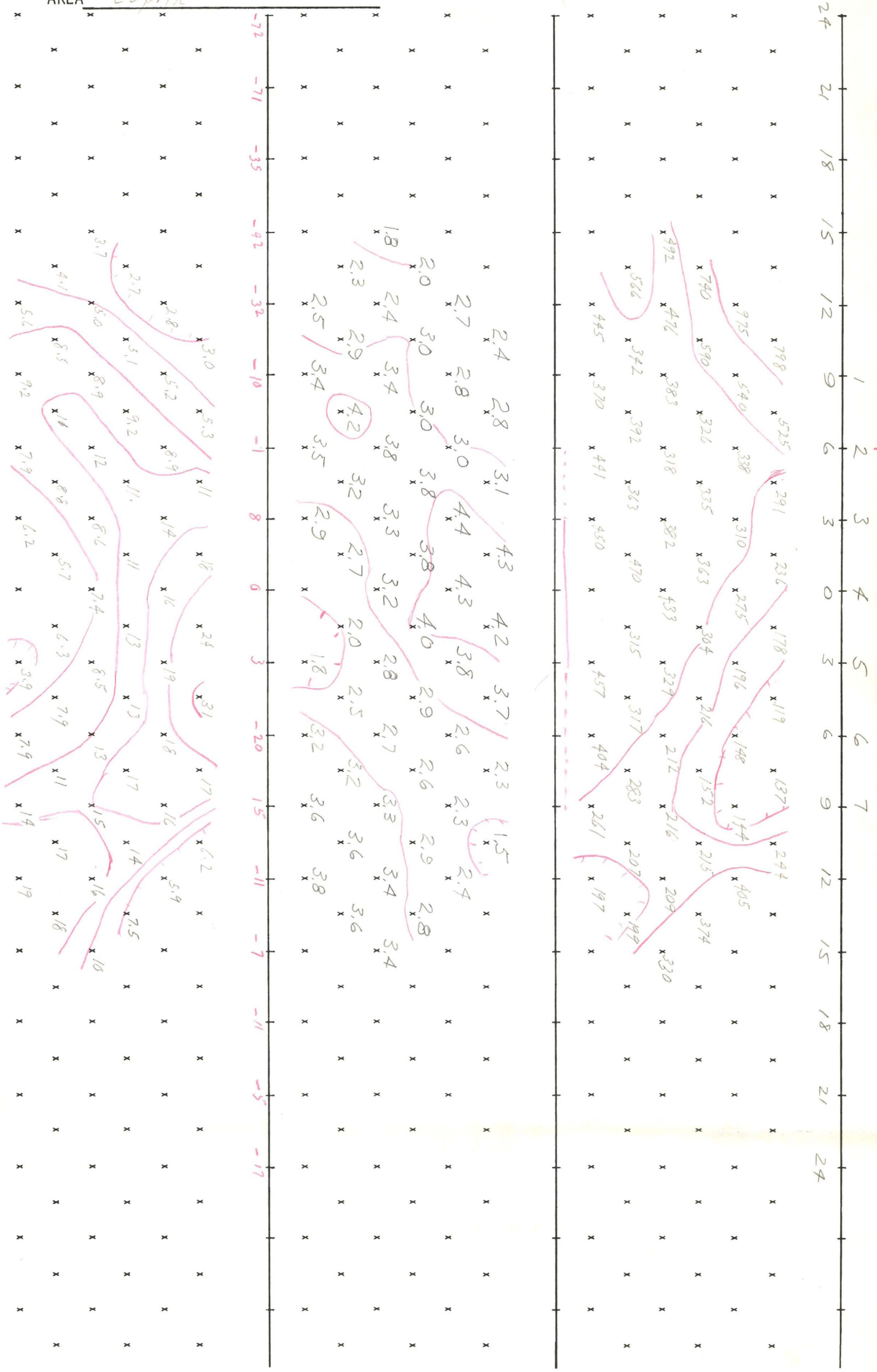
AREA Cuprite



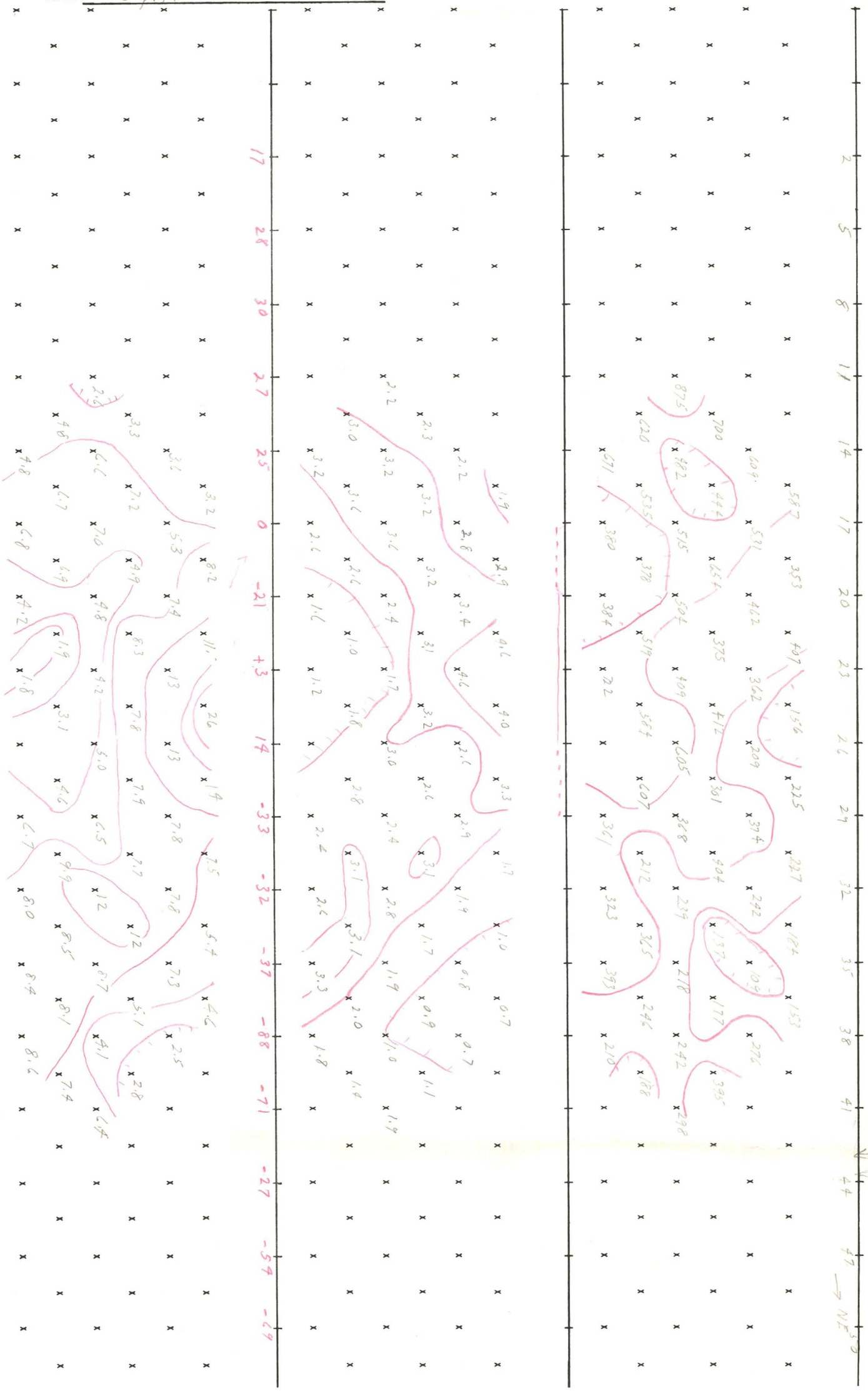
JOB# 624 LINE# 1A SP 1 a = 300 LOOKING N 29 W

CLIENT North American Minerals DATE 8/4/71 FREQUENCIES 3.0 & 0.3 Hz

AREA Cuprite



JOB# 624 LINE# 1 SP 2 a = 300 LOOKING N 29 W

CLIENT North American Mining DATE 8/3/71 FREQUENCIES 2.0 & 0.3 Hz

AREA Cuprite