



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](mailto:inquiries@azgs.az.gov)

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INDUCED POLARIZATION SURVEY

BROOKS PROPERTY

YAVAPAI COUNTY, ARIZONA

for

O'LEARY & BROOKS

DECEMBER 1976

by

Heinrichs GEOEXploration Company  
P.O. Box 5964, Tucson, AZ 85703

GEOEX Job #1138



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### In Map Pocket

Induced Polarization Location and Interpretation Plan

## INTRODUCTION

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## CONCLUSIONS AND RECOMMENDATIONS

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The anomaly appears to correlate with the described location of the small granitic intrusive which has been penetrated by existing DDH 2. The seven core samples from DDH 2 show disseminated pyrite and minor chalcopyrite and at least three samples yielded a definitely anomalous IP response. Therefore it is believed that the mineralization encountered by DDH 2 has reasonably explained the IP anomaly. However, the IP data indicate that the top of the anomalous source comes to within 25 feet of the surface whereas DDH 2 due to its inclination and position would have been in the stronger parts of the anomaly only below about 250 feet in depth. Ideally, it would be desirable to fully test the anomaly from surface downwards to obtain a more representative intersection of the causative source. A 300 foot vertical hole collared near 1W on Line 3 should serve this purpose and is recommended, although with some reservation due to the discouragingly low copper assays reported in DDH 2. If this initial drilling proves interesting, additional drill sites can be selected by reference to the surface projected anomalous as depicted on the interpretation plan map.

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The IP association with rather high resistivity material implies a disseminated polarizable source rather than electrically conductive semi-massive to massive sulfide mineralization. It is presumed that the disseminated pyrite and minor chalcopyrite seen in DDH 2 (which, as seen on the plan map, centrally penetrates the IP anomaly at depth) is the cause of the anomalous IP response. However, it is also technically conceivable that non-sulfide polarizable minerals such as magnetite, manganese oxides or graphite could also be causing or contributing to the anomalous IP response and this possibility should not be completely ignored at this stage of the project.

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<u>Footage</u>	<u>Resistivity in ohm-meters</u>	<u>PFE@3.0&amp;0.3hz</u>	<u>MCF</u>
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A GEOEX Mark 7 multifrequency IP system was employed to obtain this coverage and utilized a transmitting frequency pair of 0.3 and 3.0hz. The standard collinear dipole-dipole electrode array was used with a 200 foot dipole length. Transmitting-receiving spacings, i.e., "n" separations, ranged from 1 to 6 dipole lengths and, typically, this gives a resolvable depth penetration in the zone from about 1/3 dipole length to perhaps as much as 2 dipole lengths below surface. For the 200 foot dipole lengths used, the resolvable penetration zone would then be about 60 feet to perhaps as much as 400 feet below surface.

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Data are presented on "sectional data sheets" one for each line, showing from top to bottom; the apparent resistivity, the percent frequency effect (PFE) and the metallic conduction factor (MCF) all contoured in "sectional" form with the self potential presented directly below in profile form. An "Induced Polarization Location and Interpretation Plan" at a scale of 1" = 400' is also included and shows the traverse locations and plan projected IP interpretation with schematic contours of relative anomaly strength which depict the interpreted line-to-line anomaly correlations and assumed continuity relative to the claim boundaries and section corners.

Respectfully submitted,

Heinrichs GEOEXploration Company



Chris S. Ludwig  
Chief Geophysicist



Job #1138  
P.O. Box 5964  
Tucson, AZ 85703  
December 30, 1976

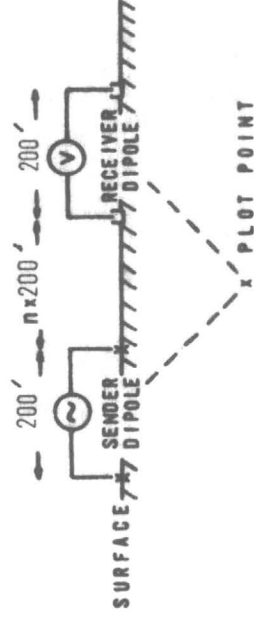




of  
THE BROOKS PROPERTY  
APAI COUNTY, ARIZONA  
for  
O'LEARY & BROOKS

### RELATIVE ANOMALY STRENGTH

**VERY WEAK**      **WEAK**      **MODERATE**      **STRONG**



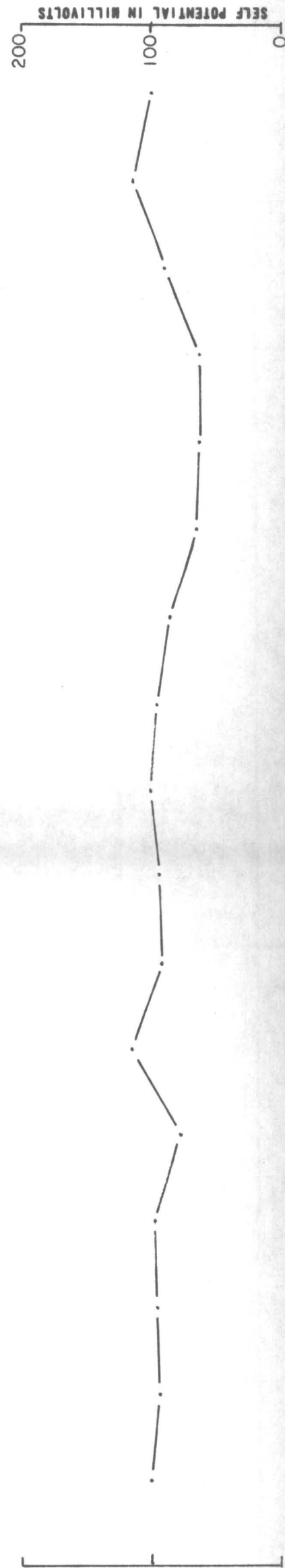
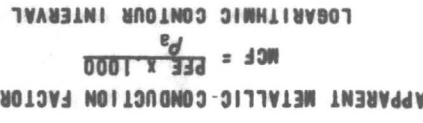
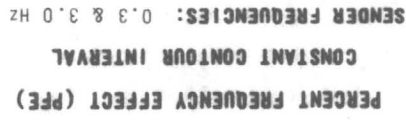
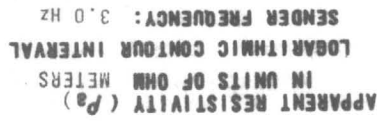
DATE \_\_\_\_\_

OCTOBER 1976



**GEOEX** PLORATION COMPANY

806 W. GRANT ROAD, POST OFFICE BOX 5964, TUCSON, ARIZ., 85703, PHONE: (602) 623-0578







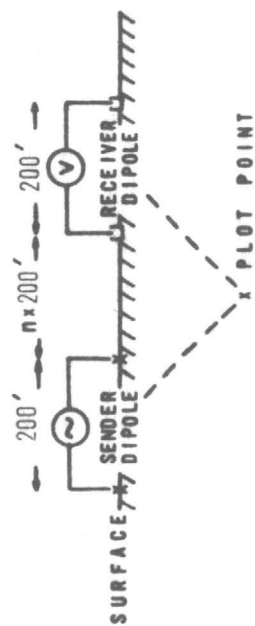
INDUCED POLARIZATION TRAVERSE  
SECTIONAL DATA SHEET  
of  
THE BROOKS PROPERTY  
YAVAPAI COUNTY, ARIZONA  
for  
O'LEARY & BROOKS

LINE NO. 4  
SPREAD(S) 1  
BEARING N 20° E

RELATIVE ANOMALY STRENGTH

VERY WEAK    WEAK    MODERATE    STRONG

DIPOLE-DIPOLE ELECTRODE ARRAY

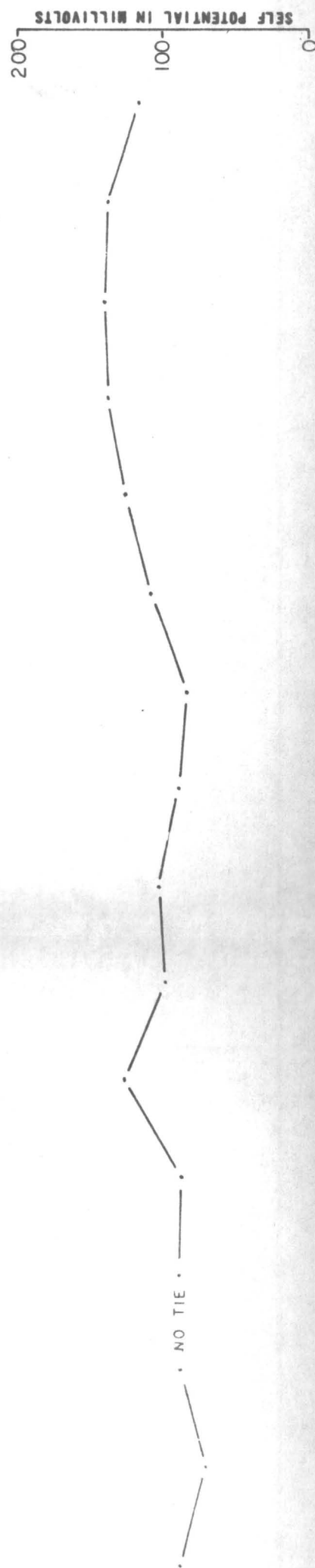
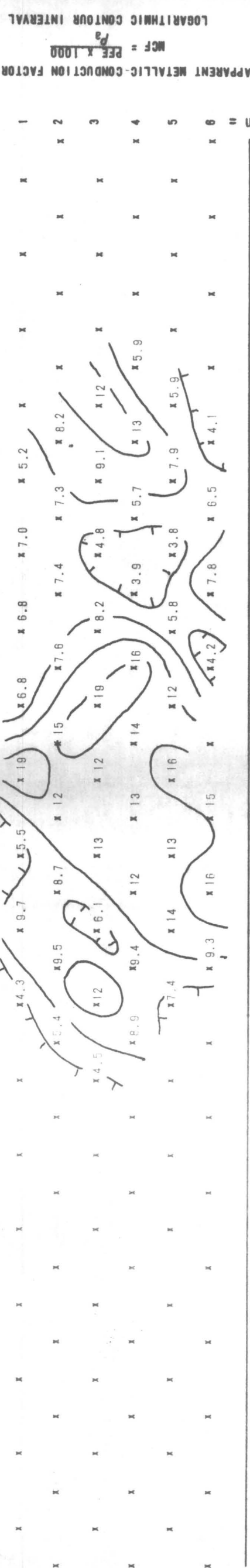
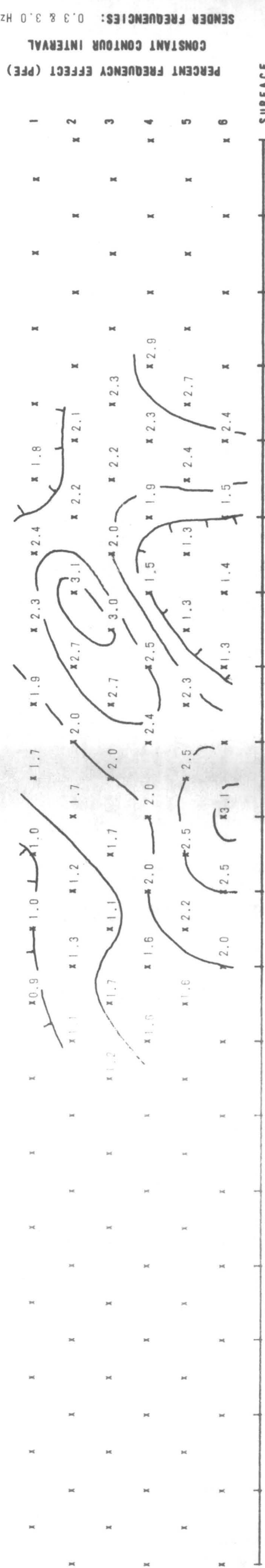
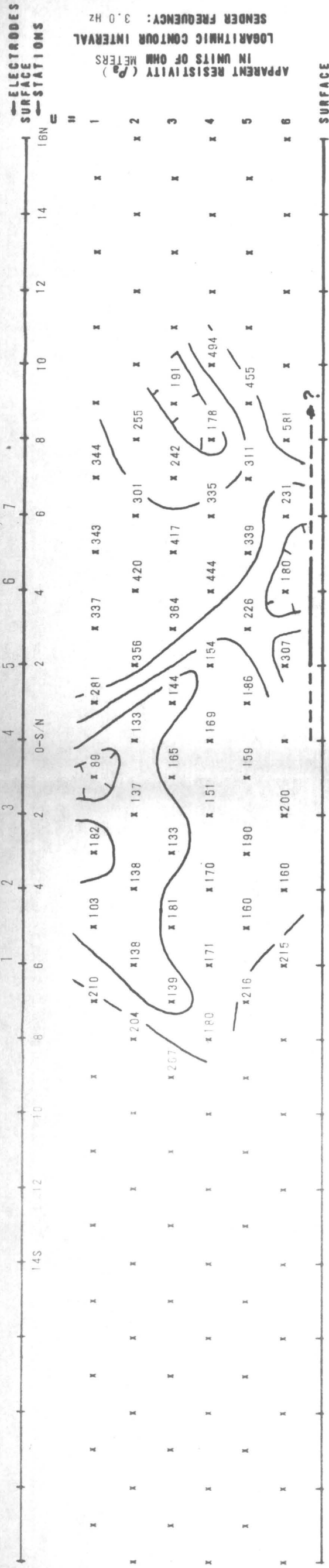


DATE  
OCTOBER 1976



HEINRICH'S GEOEXPLORATION COMPANY

806 W. GRANT ROAD, POST OFFICE BOX 5964, TUCSON, ARIZ., 85703. PHONE: (602) 623-0578



LINE NO. 5  
SPREAD(S) 1  
BEARING N 20° E

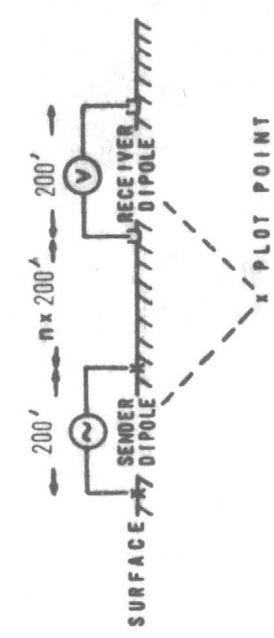
INDUCED POLARIZATION TRAVERSE  
SECTIONAL DATA SHEET

of  
THE BROOKS PROPERTY  
YAVAPAI COUNTY, ARIZONA  
for  
O'LEARY & BROOKS

RELATIVE ANOMALY STRENGTH



DIPLOLE-DIPOLE ELECTRODE ARRAY

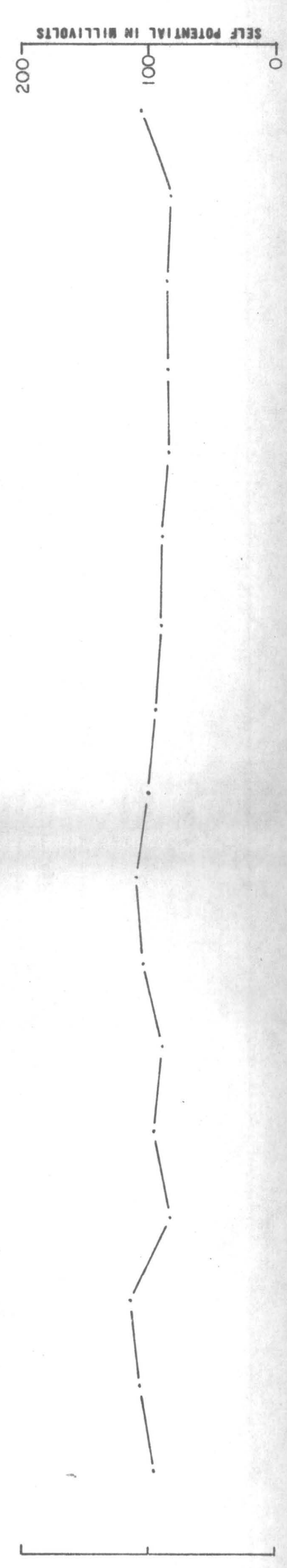
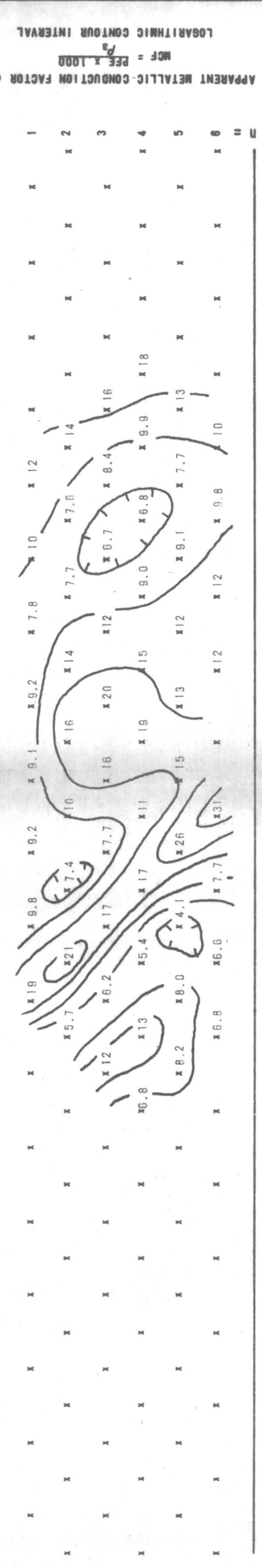
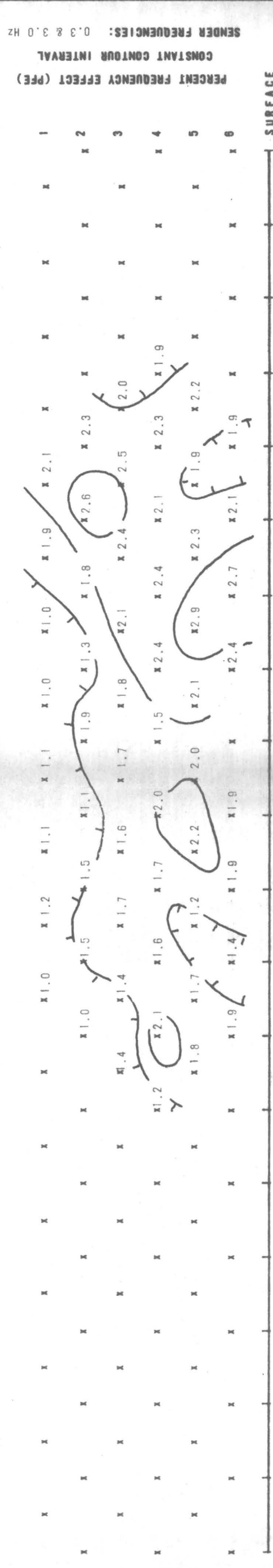
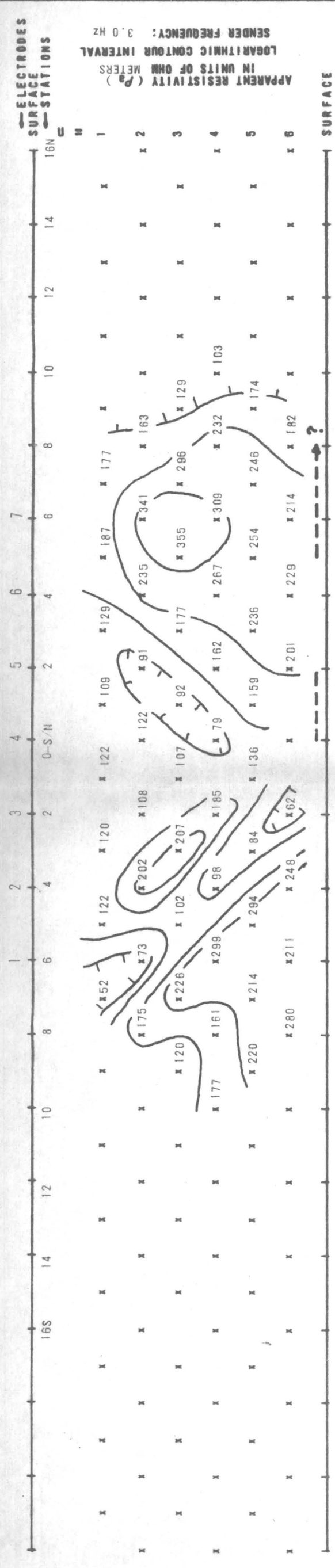


DATE  
OCTOBER 1976

GEOEXPLORATION COMPANY

806 W. GRANT ROAD, POST OFFICE BOX 5964, TUCSON, ARIZ., 85703, PHONE: (602) 823-0578

1138-76



Original + 1 copy  
of Report

Job #1138

INDUCED POLARIZATION SURVEY

BROOKS PROPERTY

YAVAPAI COUNTY, ARIZONA

for

O'LEARY & BROOKS

DECEMBER 1976

by

Heinrichs GEOEXploration Company  
P.O. Box 5964, Tucson, AZ 85703

GEOEX Job #1138

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Chief Geophysicist

Job #1138  
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December 30, 1976

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#### PROCEDURES

A GEOEX Mark 7 multifrequency IP system was employed to obtain this coverage and utilized a transmitting frequency pair of 0.3 and 3.0hz. The standard collinear dipole-dipole electrode array was used with a 200 foot dipole length. Transmitting-receiving spacings, i.e., "n" separations, ranged from 1 to 6 dipole lengths and, typically, this gives a resolvable depth penetration in the zone from about 1/3 dipole length to perhaps as much as 2 dipole lengths below surface. For the 200 foot dipole lengths used, the resolvable penetration zone would then be about 60 feet to perhaps as much as 400 feet below surface.

Five lines each about 3200 feet in length were run, four oriented about N20E and one, Line 3, about N70W. The four parallel lines were separated 400 to 600 feet apart and were centered on or 100 feet south of Line 3. Slope distance measurements were used so some foreshortening of the traverses should be expected in the more rugged terrain. Station designations are in hundreds of feet relative to the center of each line.

Data are presented on "sectional data sheets" one for each line, showing from top to bottom; the apparent resistivity, the percent frequency effect (PFE) and the metallic conduction factor (MCF) all contoured in "sectional" form with the self potential presented directly below in profile form. An "Induced Polarization Location and Interpretation Plan" at a scale of 1" = 400' is also included and shows the traverse locations and plan projected IP interpretation with schematic contours of relative anomaly strength which depict the interpreted line-to-line anomaly correlations and assumed continuity relative to the claim boundaries and section corners.

Respectfully submitted,

Heinrichs GEOEXploration Company



Chris S. Ludwig  
Chief Geophysicist



Job #1138  
P.O. Box 5964  
Tucson, AZ 85703  
December 30, 1976

## REPORT OF GEOPHYSICAL SURVEY

During the interim October 11 through October 16, 1976, at a cost of at least \$600.00, Heinrichs GEOEXploration Company (Inc.) conducted an induced polarization electrical geophysical survey on the group of six contiguous Monarch claims (11 through 16) located in the Castle Creek Mining District, Yavapai County, Arizona, as indicated on the attached plan map which is part of this report. This work was done in partial fulfillment of the annual labor requirements according to statute law on behalf of Mr. Edward B. Brooks, 6612 Snider Plaza, Dallas, Texas 75205, and Mr. D. S. O'Leary, P.O. Box 1041, Wickenburg, Arizona 85358. The work done applies to and benefits the six claims as a whole contiguous group.

Portions of Lines 1 and 3 and the entirety of Line 5 cross the Monarch claim group and involve a total of 82 data points of collinear dipole-dipole electrode array induced polarization coverage on the claims, using the multi-frequency technique with transmitting frequencies of 0.3 and 3.0 hz. A dipole length of 200 feet and transmitting-receiving dipole intervals of 1 through 6 were used. The three attached induced polarization traverse sectional data sheets show the following plotted survey results, from top to bottom: the apparent resistivity, the percent frequency effect and the metallic conduction factor, each contoured in the conventional electric section form and the associated self potential results directly below, plotted in profile form. These plotted data constitute the basic findings of this survey. The attached plan shows the location of these three lines in relation to the boundaries and points of discovery of the respective claims.

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Heinrichs GEOEXploration Company

*Chris S. Ludwig*

Chris S. Ludwig  
Chief Geophysicist



GEOEX #1138  
30 December, 1976  
P.O. Box 5964, Tucson, Arizona





## REPORT OF GEOPHYSICAL SURVEY

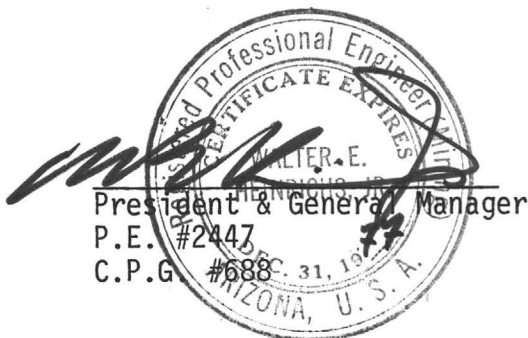
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Heinrichs GEOEXploration Company

Chris S. Ludwig  
Chief Geophysicist



GEOEX #1138  
30 December, 1976  
P.O. Box 5964, Tucson, Arizona

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Heinrichs GEOEXploration Company

Chris S. Ludwig  
Chief Geophysicist



GEOEX #1138  
30 December, 1976  
P.O. Box 5964, Tucson, Arizona



EDWARD B. BROOKS, SR.  
OIL PROPERTIES  
REALTORS®  
6612 SNIDER PLAZA  
DALLAS, TEXAS 75205

(214) 363-7648

Friday  
18 Feb., 1977

GEOTECH

Cable: GEOEX



REC'D FEB 22 1977

BOX 5944 TUCSON, ARIZONA 85703

Phone: (AREA 602) 623-0578

*Job #1138 F*

Mr. Walter Heinrichs Geoeploration Co.  
P.O. Box 5964  
Tucson, Ariz. 85703

Dear Sir:

Enclosed is a check for report that your company made on the I.P. Survey on the Brooks-O'Leary claims in Yavapai Co., Ariz.

I would like to point out that we didn't receive the final report for several months after the completion of the work.

I would also like to say that I think that the charge for the report is excessive. If we do any more business with you, I would like the cost of the report included in the original estimate of the cost.

Yours truly,

*Edward B Brooks*

Edward B. Brooks

Copy: D.S. O'Leary

February 1, 1977

Mr. Edward B. Brooks, Sr.  
6612 Snider Plaza  
Dallas, Texas 75205

Re: GEOEX Job #1138  
Yavapai County  
Arizona

Dear Mr. Brooks:

We have your letter of 26 January 1977. I will review matters more or less chronologically.

The original estimate given when Mike O'Leary first called over the phone on 9 August 1976, was \$3000.00 to \$3750.00 for four to five lines of routine average coverage, accessibility and conditions and with no special or added services.

As things actually turned out, five lines were run, but the terrain and accessibility were quite rough - at least rough enough to be tough on vehicles and to slow production some. In addition we ran sample physical property tests and prepared a whole separate report for recording purposes, which required more technical supervision, drafting, reproduction and typing.

Some time was spent researching rock age dating facilities and costs and considering the radioactive aspects reported by Mike and noted by me the two days I spent in the field. No fee charges were made for these additional services.

As to the time spent in reporting and providing a thoroughly competent interpretation, it is quite common, if properly done, for that to consume almost as much time as the field work may consume. Sometimes it may take even more time proportionately, especially if the whole job is short. In this case there were six field days and three report and interpretation days, not counting drafting. It is unfortunate that the final formalized interpretation revealed nothing more practically significant than that already con-



Mr. Edward B. Brooks, Sr.  
6612 Snider Plaza  
Dallas, Texas 75205  
February 1, 1977  
Page Two

tained in the preliminary report. However, the formalized report will prove useful for anyone to pursue further effort on the property.

We regret any misunderstandings, but believe this to be a fair representation of the efforts expended and the related statements rendered.

Sincerely,

Heinrichs GEOEXploration Co.

Walter E. Heinrichs, Jr.  
President & General Manager

WEH:mt  
cc: Mr. D. S. O'Leary



EDWARD B. BROOKS, SR.  
OIL PROPERTIES  
REALTORS®  
6612 SNIDER PLAZA  
DALLAS, TEXAS 75205  
—  
(214) 363-7648

January 26, 1977



Mr. Walter Heinrichs  
Heinrichs Geoexploration Co.  
Box 5964  
Tucson, Arizona 85703

Dear Mr. Heinrichs:

Received your bill for the report upon my return from a trip. Mr. O'Leary had forwarded it to me.

I suppose I misunderstood the original quote for the I. P. Survey, but I understood that a report was included in the quoted estimate.

I have discussed the report with a friend of mine in Albuquerque, whose company has had numerous IP Surveys made, and he thinks that perhaps a mistake was made in the amount of time charged for interpretation.

Please review the bill and let me know if you still think it is correct.

Sincerely

*Edward B. Brooks*

EDWARD B. BROOKS

EBB:ym  
cc Mr. D. S. O'Leary

December 31, 1976

Mr. Edward B. Brooks  
6612 Snider Plaza  
Dallas, Texas 75205

Re: Brooks-O'Leary Claims  
I.P. Survey  
Yavapai County, Arizona  
GEOEX Job #1138

Dear Mr. Brooks:

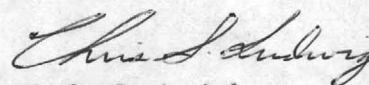
As per your letter request of December 21, 1976, we herewith submit a copy of our report "Induced Polarization Survey, Brooks Property, Yavapai County, Arizona" dated December 1976. A copy is also being sent to Mr. O'Leary in Wickenburg. Please let us know if you need additional copies of the report or reproducibles of the diagrams.

Also please find enclosed a copy of our "Report of Geophysical Survey" for the 1977 annual assessment work. We are sending a copy of this report to Mr. O'Leary with its attached sectional data/sheets for Lines 1, 3 and 5 which cross the unpatented Monarch claims along with the plan map, for him to record with your affidavit of labor. The interpretive details have been removed from the plan and three sections assuming you did not want such on public record.

Please feel free to contact us if you have questions or if we can be of any further assistance. Best wishes for the New Year.

Sincerely,

Heinrichs GEOEXploration Co.



Chris S. Ludwig  
Chief Geophysicist

CSL:mt  
Enclosures  
cc: Mr. O'Leary



## REPORT OF GEOPHYSICAL SURVEY

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Heinrichs GEOEXploration Company

Chris S. Ludwig  
Chief Geophysicist

President & General Manager  
P.E. #2447  
C.P.G. #688

GEOEX #1138  
30 December, 1976  
P.O. Box 5964, Tucson, Arizona





EDWARD B. BROOKS, SR.  
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DALLAS, TEXAS 75205  
—  
(214) 363-7648

RECEIVED  
GEOEX  
Cable: GEOEX



DEC 23 1976

BOX 5964 TUCSON, ARIZONA 85703  
Phone: (AREA 602) 623-0578

December 21, 1976

Mr. Chris S. Ludwig  
Chief Geophysicist  
Heinrichs Geoexploration Co.  
Box 5964  
Tucson, Arizona 85703

Re: BROOKS-O'LEARY  
Claims  
Yavapai Co. Ariz.

Dear Mr. Ludwig:

I received your letter of November 12, 1976, and the preliminary report of the I.P. Survey.

The information was complete enough to help me decide that we should do more work at our expense before trying to interest other companies.

I didn't reply to your letter, for in the last paragraph you said that a final report with drafted sectional data sheets, etc. would follow. I have never received the final report and don't believe Mr. O'Leary has.

Will you please send this report sometime before January 15, 1977. Mr. O'Leary and I will need it when we discuss our future plans shortly after the first of the year.

Sincerely

*Edward B. Brooks*

EDWARD B. BROOKS

EBB:ym  
cc Mr. D. S. Mike O'Leary

Brooks-O'Leary Unpatented Lode Claims

Yavapai County

Monarch No. 11	50' West/1450' East	Book 1023/page 685
Monarch No. 12	400' West/1100' East	1023/686
Monarch No. 13	300' West/1200' East	1023/687
Monarch No. 14	400' West/1100' East	1023/688
Monarch No. 15	600' West/900' East	1023/689
Monarch No. 16	200' Southwest/1300' Northeast	1023/690

~~AMERICAN~~  
**GEOEX**  
Cable: GEOEX



REC'D NOV 29 1976 REC'D

BOX 5364 TUCSON, ARIZONA 85703

Phone: (AREA 602) 623-0578

November 12, 1976

Mr. Edward B. Brooks  
c/o Brooks Real Estate  
6612 Snider Plaza  
Dallas, Texas 75205

Re: IP Survey, Brooks Property  
Wickenburg, Arizona  
GEOEX Job #1138

Dear Mr. Brooks:

Pursuant to telephone discussions earlier this week with you and Mr. O'Leary, we herewith submit a brief preliminary letter report of our findings on the induced polarization (IP) survey run in mid-October on your Brooks Property, Yavapai County, Arizona, near Wickenburg.

A very weak to moderate strength IP anomaly was partially defined by Lines 1 through 5 and is seen to lie mainly within the Black Horse and New Departure claims. The more interesting weak to moderate strength core of the anomaly is elongated and trends about northwest-southeast. It is roughly 250 feet by 750 feet in surface or near surface areal extent with the moderate portion being approximately centered on Line 3 near station 1W, i.e., 100 feet west of Line 1 on Line 3.

The IP response is associated with rather high resistivity material and would therefore likely be caused by disseminated sulfide mineralization rather than more conductive semi-massive to massive sulfide mineralization. Technically, other non-sulfide polarizable materials such as magnetite, manganese oxides and graphite could also be causing or contributing to the anomalous IP response and these cannot be completely ruled out at this stage.

Existing DDH 2 appears to have centrally penetrated the moderate core of the anomaly at depth as seen on the accompanying plan map. This is somewhat contrary to the information previously verbally reported to you and Mr. O'Leary prior to accurately locating the drilling and IP coverage in plan in that originally it was felt that DDH 2 had only intersected a southerly fringe of the IP anomaly.

Seven core samples from DDH 2 of a granitic intrusive rock carrying disseminated pyrite and minor chalcopyrite were inspected and tested for their IP response and resistivity. As usual with samples, there was considerable variance in results but three samples gave a definitely anomalous IP response, 3.2 to 5.6 percent frequency effect, and are compatible with the 3 to 4 percent effects noted in the moderate core of the anomaly on Line 3. Also, the resis-

Mr. Edward B. Brooks  
November 12, 1976  
Page Two

tivity of the samples was generally high - again compatible with the field results.

Therefore, it is felt that the source of the IP anomaly has been reasonably well intersected by DDH 2. The IP data indicates that the anomaly source is shallow and comes to within about 25 feet of the surface. Considering the position of the anomaly and inclination of the drill hole, the anomaly has been penetrated in its deeper reaches only. Ideally, it could be useful to penetrate the anomaly source vertically to obtain a more direct sampling of the zone of response from surface downwards. This could be done with a 300 foot vertical hole collared near 1W on Line 3 and is recommended with some reservation due to the discouragingly low copper results intersected in DDH 2.

The IP anomaly has a very weak fringe that is open-ended to the north and could be representing a halo of very weak mineralization around the known intrusive or possibly the halo of another center of mineralization further north. Some geologic investigation may be warranted to the north and if any significant indications of mineralization or hydrothermal alteration are seen, more IP coverage is recommended by extending the existing grid in that direction.

A final report with drafted sectional data sheets, sample results and an assessment report for the six Monarch claims will follow. For the assessment report, it would help if we were supplied the locations of the points of discovery for the Monarch claims. We hope this gives you the information needed to make your drilling decisions and if you have any questions or comments, please let us know. We are sorry for any inconveniences the delay in reporting may have caused you.

Sincerely,

Heinrichs GEOEXploration Company



Chris S. Ludwig  
Chief Geophysicist

CSL:mt  
cc: Mr. O'Leary  
Enclosure: Plan Map

November 12, 1976

Mr. Edward B. Brooks  
c/o Brooks Real Estate  
6612 Snider Plaza  
Dallas, Texas 75205

Re: IP Survey, Brooks Property  
Wickenburg, Arizona  
GEOEX Job #1138

Dear Mr. Brooks:

Pursuant to Mr. O'Leary's phoned request last Monday, 8 November 1976, we have inquired about laboratory facilities available for quantitative age dating of rock samples. The objective would be to determine if the Brooks Claims porphyry intrusive was of Larimide or Precambrian age or whatever.

There are no commercial laboratories in Arizona that do age dating, but the University of Arizona does do this kind of work in conjunction with the National Science Foundation. This cooperative, non-proprietary program is directed by Dr. Paul Damon. Their policy is that all results are eventually published. However, they do agree not to publish results for at least one year subsequent to the availability of the information to the donor.

Dr. Damon expresses primary interest in ongoing programs with larger groups such as Cyprus Pima Mining Company, Conoco Oil, etc., but he did not express total disinterest in the general Wickenburg - Castle Hot Springs region. Dr. Damon stated that he and Bill Rehrig of Conoco have completed some studies at the old Vulture Mine vicinity for example.

In any event, the cost per rubidium-strontium and/or potassium-argon analysis is presently rated at \$350.00, of which half, \$175.00, is shared equally between the N.S.F. and the client-donor or participant. They request as much known factual geology about the area as is available, but unfortunately, I was able to give Dr. Damon rather little. Ideally, as mentioned to Mr. O'Leary before, this is just another reason why at least some minimum amount of preliminary reconnaissance geologic mapping of a prospect area is always desirable. It is possible that useful geological information might be dredged up from researching various file sources, but otherwise, field work would be the only other way to acquire such information. An important question, for example, is what is the known surface extent of the Brook's Claims porphyry and are there any identifiable others



Mr. Edward B. Brooks  
November 12, 1976  
Page Two

of the same formation in the general vicinity. Conceivably, the weakish mineralization seen on the Brooks claims is associated with stronger mineralization nearby whether evident at the surface or not. This possibility is certainly worth careful investigation.

For proprietary commercial work Dr. Damon suggested Geochron Laboratories Inc., at 24 Blackstone Street, Cambridge, Mass., 02139, Attention Harold Krueger. Also, there is Teledyne Isotopes of 50 Van Buren Avenue, Westwood, N.J. 07675, Phone: (201) 664-7070, and one or two others whose names and addresses were not immediately available. Geochron charges about \$300.00 per analysis, Damon thought. We have no charge data on Teledyne.

If you would like us to assist in working with Dr. Damon, we would of course be glad to do so.

Regarding the above-background radioactive count and related uranium indications, commercial uranium possibilities are difficult to objectively assess from data now on hand. Scintillation effects seemed to be enhanced by the mass effect and/or radon gas emanations at the old shaft in the main wash at electrode 4 position, station O-N/S on Line 1 and the gossanous outcrop between stations 12S and 14S on Line 1. Commonly, this may indicate radioactive material out of equilibrium and may be suggestive of effects caused by other than uranium such as thorium or potassium.

Whenever further effort is expended on testing the property, a portion should be devoted toward trying to better identify the specific radioactive minerals. Spectral work on the surface, if done carefully, could be helpful. Otherwise, wet assays of representative samples obtained by drilling, underground, or surface methods, would be the only conclusive approach.

Sincerely,

Heinrichs GEOEXploration Company



Walter E. Heinrichs, Jr.  
President & General Manager

WEH:mt

cc: Mr. O'Leary

P. O. BOX 1041

DORMAN S. O'LEARY  
REGISTERED MINING ENGINEER  
WICKENBURG, ARIZONA  
85358

PHONE 684-2287

**GEOEX**

Cable: GEOEX



October 27, 1976

OCT 29 1976  
BOX 5964 TUCSON, ARIZONA 85703  
Phone: (AREA 602) 623-6578

Walter,

I enclose your check for \$2069.75, in accord with your revised statement. I hope you have picked up the core samples sent by Greyhound bus. If not, please check.

Mike O'L

10/29/76

Dear Mike: Thanks for the check.

Yes, we did receive the rocks OK.

They have since been tested, and the results will be included in our interpretations of the I.P. survey results and our report of same.

We appreciate your reminder none the less.

Regards,

Job # 1138

Walt. H.

HEINRICH'S

GEOEXPLORATION CO.



Box 5964 Tucson, Arizona 85703

Phone: (602) 623-6578

Cable: GEOEX



DORMAN S. O'LEARY  
REGISTERED MINING ENGINEER  
WICKENBURG, ARIZONA  
85358

October 21, 1976

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



Gentlemen:

I enclose a copy of the drill log of Brooks DDH 2, and am sending 6 pieces of core from the same hole for testing. The latter will come by Greyhound Bus.

The report for filing the 1977 affidavit of annual labor concerns only Monarch Nos. 11 through 16, traversed by the east portion of Line 3 and all of Line 5. I enclose a revised print of the claim map, as the one I sent you has the claims numbered 1 through 6, which is not correct.

Very truly,

*D. S. O'Leary*  
D. S. O'Leary

P. S. Please send me a revised Statement. Yours of Oct. 19 does not reflect our advance of \$1750.

*Revised statement  
sent 10/23/76*

\*NOTE: COLLAR S 70' EAST I.P. LINE 2 - 150' SOUTH I.P. LINE 3

HAWLEY & HAWLEY ASSAYERS AND CHEMISTS, INC.  
TUCSON, ARIZONA

BROOKS DDH 2

DIRECTION N77EHOLE NO. 2INCLINATION 50°PROPERTY BROOKSSTARTED 1972

LOCATION \_\_\_\_\_

COMPLETED 1972

COLLAR COORD. N. \_\_\_\_\_ E. \_\_\_\_\_

DEPTH \_\_\_\_\_

COLLAR ELEV. \_\_\_\_\_

NOTES BY \_\_\_\_\_

SHEET 2 OF 2SCALE 1" = 40'

ROCK AND ALTERATION	LOG	GEOLOGY	% REC.	CORE ASSAYS				SLUDGE ASSAYS			
				SECTION	As g	Ag	Cu	Mo	SECTION	Cu	
QUARTZ DIORITE?		MORE $FeS_2$		348	1.008	.09	.04	.003			
		CL $FeS$		357	"	.06	.04	.002			
		$MoS_2$ 350 TO 385		367	"	.05	.04	.013			
				376	"	.04	.02	.009			
				386	"	.07	.03	.004			
				394	"	.08	.03	.004			
		400		406	"	.08	.03	.004			
435		HORNBLANDS									
442		SEMIST									
QUARTZ DIORITE		HEMATITE $MoS_2$ AT 442									
		450									
		SPECULARITE AT 459 TO 465									



Cal 1.007 & 1.011

LINE

a = 200'

52-m

B & O Job

$$P = \frac{V}{I} K_n \frac{1.915}{5} \times \text{Cal}$$

$V_{(s)}$   $K_n$   $I$

$V_{(n)}$

-27.5 0-25	90.63 2.5	57.3 <sup>3</sup> 12-145	35.5 <sup>30</sup> 2.5	608.3 2.5	-36.3	40.63 2.5
↓	42.812 2.5		15.5 <sup>60</sup> 2.5	12912 2.5		19.760 2.5
-23 2-45	490 3 2		7.13 <sup>105</sup> 2	79.03 2.5	-12.1	31.9105 2
↓	30.7 12 2.5		8.31 <sup>168</sup> 2	28.3 <sup>12</sup> 2.5		8.52 <sup>168</sup> 2
↓	19.130 2.5	14-165	35.5 <sup>60</sup> 2.5	13.0 <sup>30</sup> 2.5		16.660 2.5
-14.74-65	215 3 2	37.3	15.0105 2.5	479 3 2	-39.9	8.81105 2.5
↓	96.0 12 2		8.11 <sup>168</sup> 2	39.312 2		15.3168 2
↓	13.0 30 2.5			18.730 2.5		
↓	9.4060 2.5			9.8660 2.5		
-34 6-85	412 3 2.5			237 3 2.5	+1.3	
↓	97.7 12 2			185 12 2		
↓	54.6 30 2			32.130 2		
↓	8.59 60 2.5			19.260 2.5		
↓	6.95105 2.5			11.2105 2.5	-56.3	
-31.3 8-105	320 3 2.5			424 3 2.5	-38.5	
↓	73.9 12 2.5			96.2 12 2.5	-35.8	
↓	27.730 2			124 30 2	-20.5	
↓	21.460 2			28.860 2		
↓	3.38105 2			18.7 105 2.5		
↓	2.98168 2			12.7 168 2.5		
-6.6 10-125	105 12 2.5			71.6 12 2.5		
↓	35.730 2.5			29.6 30 2.5		
↓	16.0 60 2			43.9 60 2		
↓	15.3 105 2			11.0 105 2		
↓	2.73168 2			7.96 168 2.5		

Diamond Drill Hole #2 Core tests

I. P. RECEIVER NOTES, JOB No. 1138, Brooks Claim Group

LINE \_\_\_\_\_, HALF \_\_\_\_\_, SP. \_\_\_\_\_,  $\alpha$  = \_\_\_\_\_, BEARING \_\_\_\_\_

SENDER STA. \_\_\_\_\_ = ELECTRODE NO. \_\_\_\_\_, DATE October 27, 1976



PAGE \_\_\_\_\_

**HEINRICH  
GEOEX**

[illegible]



I. P. RECEIVER NOTES, JOB No. 1138, 1138

LINE \_\_\_\_\_, HALF \_\_\_\_\_, SP. \_\_\_\_\_,  $\alpha$  = \_\_\_\_\_, BEARING \_\_\_\_\_

SENDER STA. \_\_\_\_\_ = ELECTRODE No. \_\_\_\_\_, DATE Oct 20 - 1936



PAGE \_\_\_\_\_

HEINRICH  
GEOEX

[illegible]

I. P. RECEIVER NOTES, JOB No. 1138A SamplerPAGE 17LINE \_\_\_\_\_, HALF \_\_\_\_\_, SP. \_\_\_\_\_,  $\alpha$  = \_\_\_\_\_, BEARING \_\_\_\_\_SENDER STA. \_\_\_\_\_ = ELECTRODE No. \_\_\_\_\_, DATE OCT. 27, 1976HEINRICH'S  
GEOEX

4

SEND		CAL	420'	420'	420'	355'	355'	355'	355'	355'	355'
RECEIVE											
MULTIPLIER											
PFE		-0.2	1.2	0.9	+0.3/0.0	+0.6/+0.4	+6.2/4.1	+6.5/4.3	+0.2/+1.2	+5.8/+5.6	+5.1/+5.0
CUR. (AMPS)		10,000	2ma	2ma	0.0/0.1	1ma	1ma	1ma	1ma	5Ma	5Ma
POINT No.					2ma						<del>4/3</del>
SEP. (n)											
H. F. MV		993.0	490	501.	554.	X	90.4	96.1		414/399	388
DRIFT		0.0	1.7	1.1	~		1.1	4.3	1.2		normal
I.O PFE	$K_n/1000$										
0.3 PFE	$P_{CAL}$										
0.1 PFE	$PFE_c$				0.3						5.6
3.0 MV	$P/2\pi$				12,000						2000
DRIFT	MCF				0.02						2.8
S. P.	L				0.9x3"	1.0x3"					13.0"
NOISE	D				1.41"	1.4"					
POT RES.	A = $\pi \frac{D^2}{4}$				0	0 $\frac{2}{3}$					
CULT & CMTS					1.56 in <sup>2</sup>	~1.0 in <sup>2</sup>					1.0 in <sup>2</sup>

↑  
SEALED

1.915 x 39.8 x  $\frac{AV}{LI}$ I. P. RECEIVER NOTES, JOB No. 1138, ● A \_\_\_\_\_LINE \_\_\_\_\_, HALF \_\_\_\_\_, SR \_\_\_\_\_,  $\alpha$  = \_\_\_\_\_, BEARING \_\_\_\_\_SENDER STA. \_\_\_\_\_ = ELECTRODE No. \_\_\_\_\_, DATE OCT 27, 1976PAGE ZTHEINRICHS  
GEOEX

SEND	274	274	274	274	380	315	315	1138?	1138?	208
RECEIVE	<del>40</del>									
MULTIPLIER										
PFE	0.0	+0.7	+0.8	+0.8	+3.1/3.2	0.0/+1.0	0.0		+1.3/+1.5	+2.0/+2.6
CUR. (AMPS)	7.1ma	7.1ma	7.1ma	7.1ma	8.4ma	8.5ma	8.5	7.5ma	<del>7.5</del> 7.5	<del>7.5</del> 7.5
POINT No.										
SER. (n)										
H. F. MV	304	270	294	30.1	44.5/44.3	262/25.8	25.6	56.7	403	696/65
DRIFT	+0.1	+0.8	+0.6	-0.8	+0.3/+0.2	-0.2/-0.2	-0.1		-0.7/-0.6	-5.1/-1.8
I.O PFE	$K_n/1000$									
0.3 PFE	$P_{CAL}$	↑		↑	↑↑	↑	↑		↑	
0.1 PFE	$PFE_c$			1.6	3.2				2.0	
3.0 MV	$P/2\pi$			1530	78?				380	
DRIFT	MCF			1.0	41				5.3	
S. P.										
NOISE		1.1 x 3"		3.3"	1.4 x 3"	0.8 x 3"		0.6 x 3"	1.8"	1.3 x 3"
POT RES.		1.4		1.54 in <sup>2</sup>	1.4	1.4		14"	1.54 in <sup>2</sup>	1.4
CULT & CMTS		0			0	00		0		0



I. P. RECEIVER NOTES, JOB No. 1138, 1340

LINE 1, HALF N, SP. 1,  $\alpha =$  200', BEARING N21°E

SENDER STA. 0-N/S = ELECTRODE No. 4, DATE           



**HEINRICH  
GEOEX**

[illegible]



SENDER STA. \_\_\_\_\_ = ELECTRODE No. \_\_\_\_\_, DATE \_\_\_\_\_



PAGE 2

HEINRICH  
GEOEX

[illegible]

SENDER STA. \_\_\_\_\_ = ELECTRODE No. \_\_\_\_\_, DATE \_\_\_\_\_



PAGE 3

**HEINRICHSGEOEX**

[illegible]

SENDER STA. \_\_\_\_\_ = ELECTRODE No. \_\_\_\_\_, DATE \_\_\_\_\_



PAGE 4

HEINRICH  
GEOEX

[illegible]



SENDER STA. \_\_\_\_\_ = ELECTRODE No. \_\_\_\_\_, DATE \_\_\_\_\_



PAGE 6

**HEINRICHSGEOEX**

[illegible]



I. P. RECEIVER NOTES, JOB No. 1138,      A BFO

LINE 1, HALF 5, SP. 1,  $\alpha =$  200', BEARING \_\_\_\_\_

SENDER STA. \_\_\_\_\_ = ELECTRODE No. \_\_\_\_\_, DATE \_\_\_\_\_



HEINRICH  
GEOEX

[illegible]

## I. P. SENDER NOTES

 JOB NO. 1138 AREA B + O  
 LINE 1, HALF N, SP. 1, DATE 10/11/76
PAGE 1HEINRICH'S  
GEOEX

SEND	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	CAL
RECEIVE	0-2N	→	2-4N	→	→	4-6N	→	→	→	6-7
RANGE	X10X250	X10X250	X10X100	X10X250	X10X250	X10X100	X10X100	X10X250	X10X250	X10X100
VOLTAGE	300	300	380	300	300	380	380	300	300	160
CURRENT	2.5	2.5	1	2.5	2.5	1	1	2.5	2.5	1
SEND	5-6	4-5	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3
RECEIVE	6-8N	→	→	→	→	8-10N	→	→	→	→
RANGE	X10X250	X10X100	X10X100	X10X250	X10X250	X10X250	X10X250	X10X100	X10X100	X10X250
VOLTAGE	360	380	380	300	300	400	360	380	380	300
CURRENT	2.5	1	1	2.5	2.5	2.5	2.5	1	1	2.5

FREQUENCIES 3.0, 0.3

COMMENTS:

SENDER No. \_\_\_\_\_ POWER UNIT ID \_\_\_\_\_

OPERATOR MERIKLE \_\_\_\_\_RECEIVER No. 25705-R \_\_\_\_\_ HOURS RUN \_\_\_\_\_OPERATOR V.S \_\_\_\_\_

## I. P. SENDER NOTES

 JOB No. 1138 AREA B40  
 LINE 1, HALF N, SP. 1, DATE 10/11/76
PAGE 2HEINRICHS  
GEOEX

SEND	1-2	6-7	5-6	4-5	3-4	2-3	6-7	5-6	4-5	3-4
RECEIVE	8-10N	10-12N	—————→				12-14N	—————→		
RANGE	X10X250	X10X250	X10X250	X10X100	X10X100	X10X250	X10X250	X10X250	X10X200	X10X200
VOLTAGE	300	400	360	380	380	300	400	360	480	440
CURRENT	2.5	2.5	2.5	1	1	2.5	2.5	2.5	2.0	2.0
SEND	6-7	5-6	4-5							
RECEIVE	14-16N	—————→								
RANGE	X10X250	X10X250	X10X200							
VOLTAGE	400	360	440							
CURRENT	2.5	2.5	2.0							

FREQUENCIES	<u>3.0</u>	<u>0.0</u>
SENDER No. <u>14672</u>	POWER UNIT ID	
OPERATOR <u>MERIKLE</u>	<u>Briggs-GE</u>	
RECEIVER No. <u>25705-R</u>	HOURS RUN	
OPERATOR <u>V.5</u>		

 COMMENTS:  
5. T. 11:30

## I. P. SENDER NOTES

 JOB No. 438 AREA B 40  
 LINE 1, HALF 5, SP. \_\_\_\_\_, DATE 10/11/76
PAGE 3HEINRICH'S  
GEOEX

SEND	SP	SP	3-4	4-5	5-6	6-7	2-3	3-4	4-5	5-6
RECEIVE	0-25	2-45	4-65				6-85			
RANGE			X10X200	X10X200	X10X250	X10X250	X10X250	X10X200	X10X200	X10X250
VOLTAGE			420	430	380	400	300	420	420	380
CURRENT			2	2	2.5	2.5	2.5	2.0	2	2.5
SEND	6-7	CAL	1-2	2-3	3-4	4-5	5-6	6-7	1-2	2-3
RECEIVE	6-85	1-2	8-105						10-125	-
RANGE	X10X250	X10X100								
VOLTAGE	420	120								
CURRENT	2.5	1								

FREQUENCIES

3.0 0.3

SENDER No.

14672

POWER UNIT ID

OPERATOR

MERIKLEBRIGS 7

RECEIVER No.

25 705-R

HOURS RUN

OPERATOR

V.5

COMMENTS:

F.T.

## I. P. SENDER NOTES

JOB No. \_\_\_\_\_ AREA \_\_\_\_\_

LINE 1, HALF S, SP. 2, DATE \_\_\_\_\_PAGE 4HEINRICH'S  
GEOEX

SEND	3-4	4-5	5-6	1-2	2-3	3-4	4-5	1-2	2-3	3-4
RECEIVE	10-12S	————→		12-14S	————→			14-16S	————→	
RANGE										
VOLTAGE										
CURRENT										
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

## FREQUENCIES

SENDER No.	POWER UNIT ID
OPERATOR	
RECEIVER No.	HOURS RUN
OPERATOR	

COMMENTS:

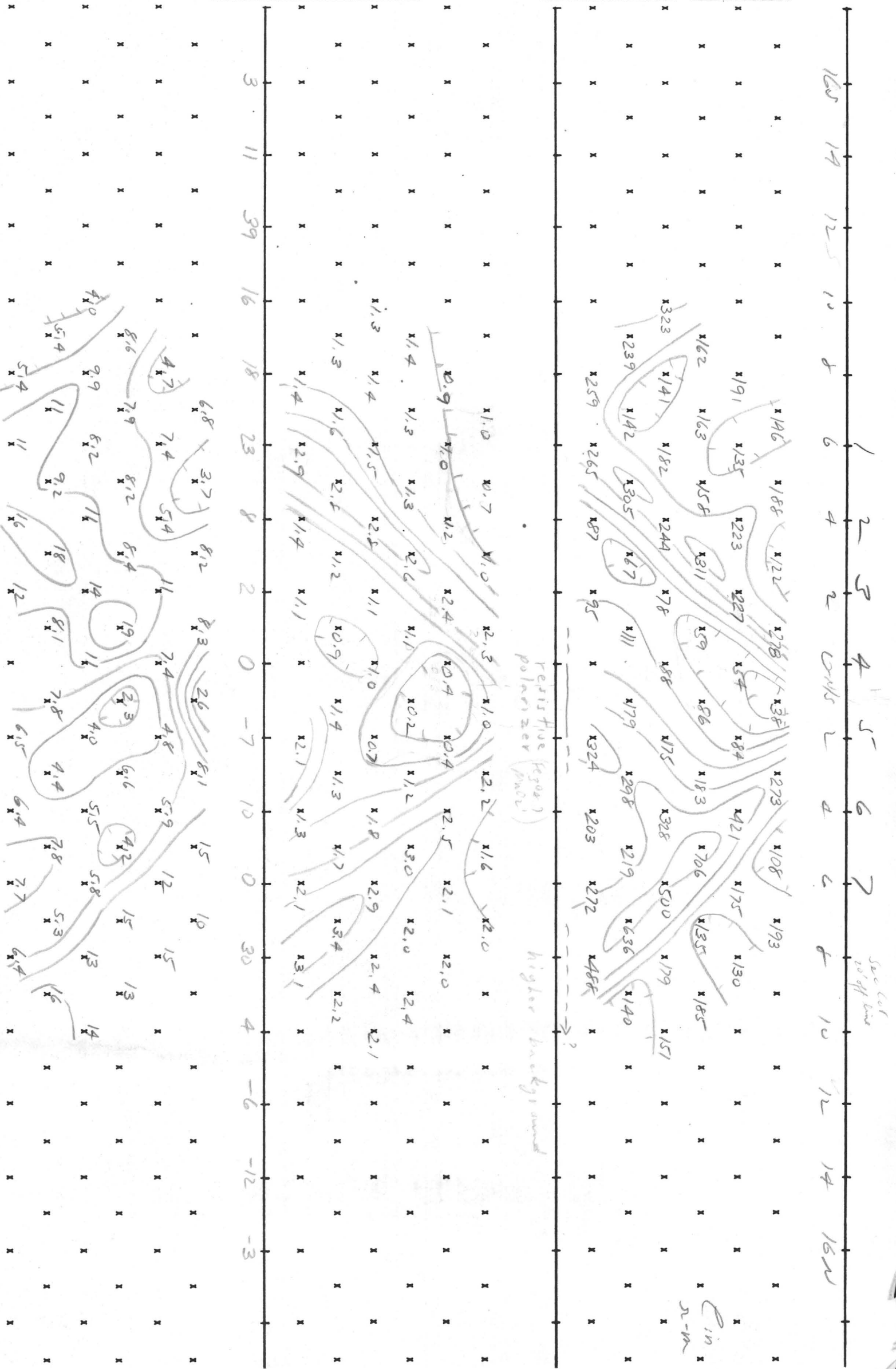


JOB # 1138 CLIENT O'Leary & Brooks  
DATE October 1976 AREA Brooks Property  
Yavapai County, AZ  
BEARING N 21° E

LINE# 1 SP 1

a= 200'

RESISTIVITY FREQUENCIES 3.0 HZ



LINE# 2

SP 1

a= 200'

BEARING N 19° E

RESISTIVITY FREQUENCIES

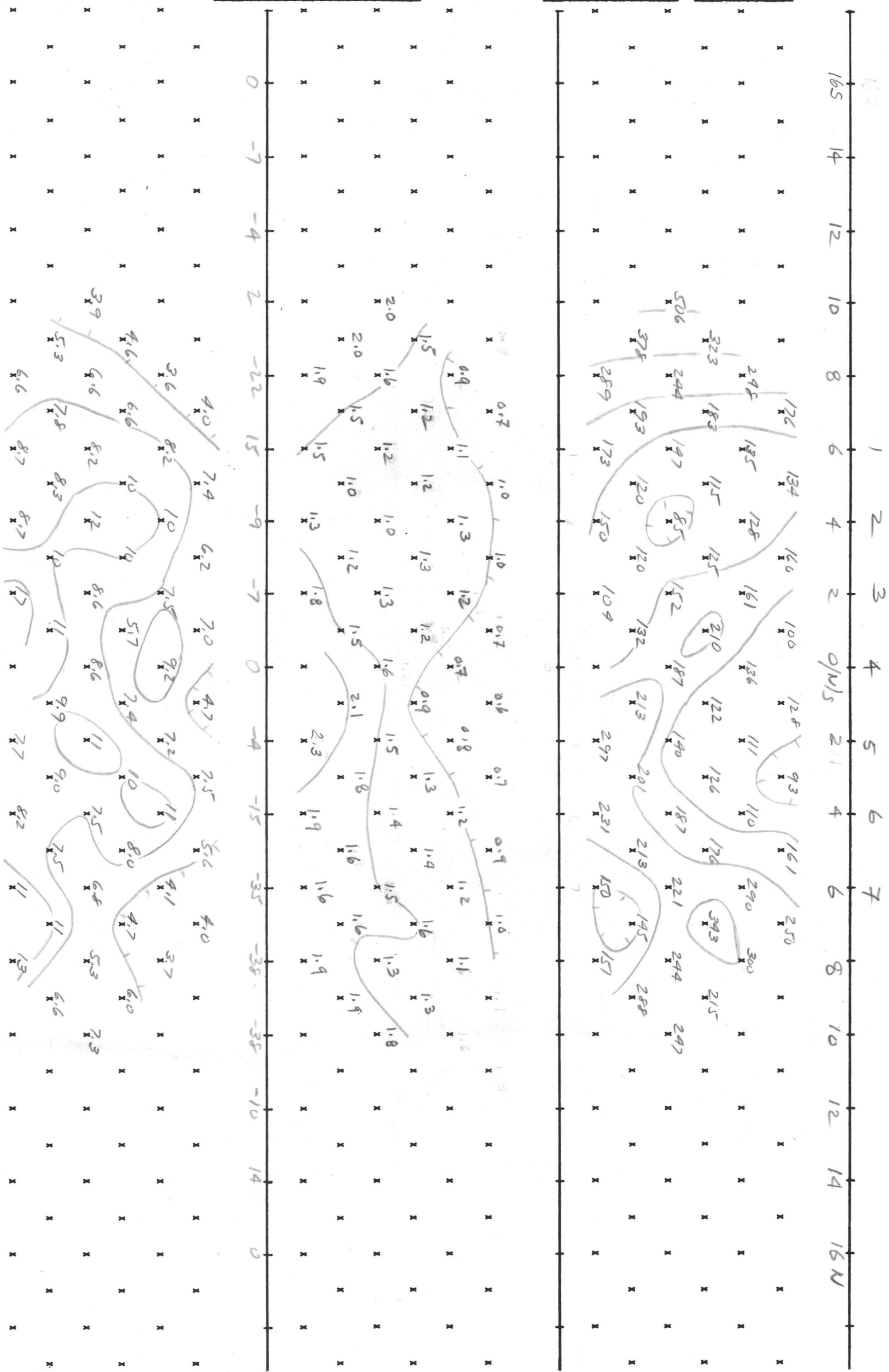
3.0

FREQUENCIES

0.3

3.0

Hz

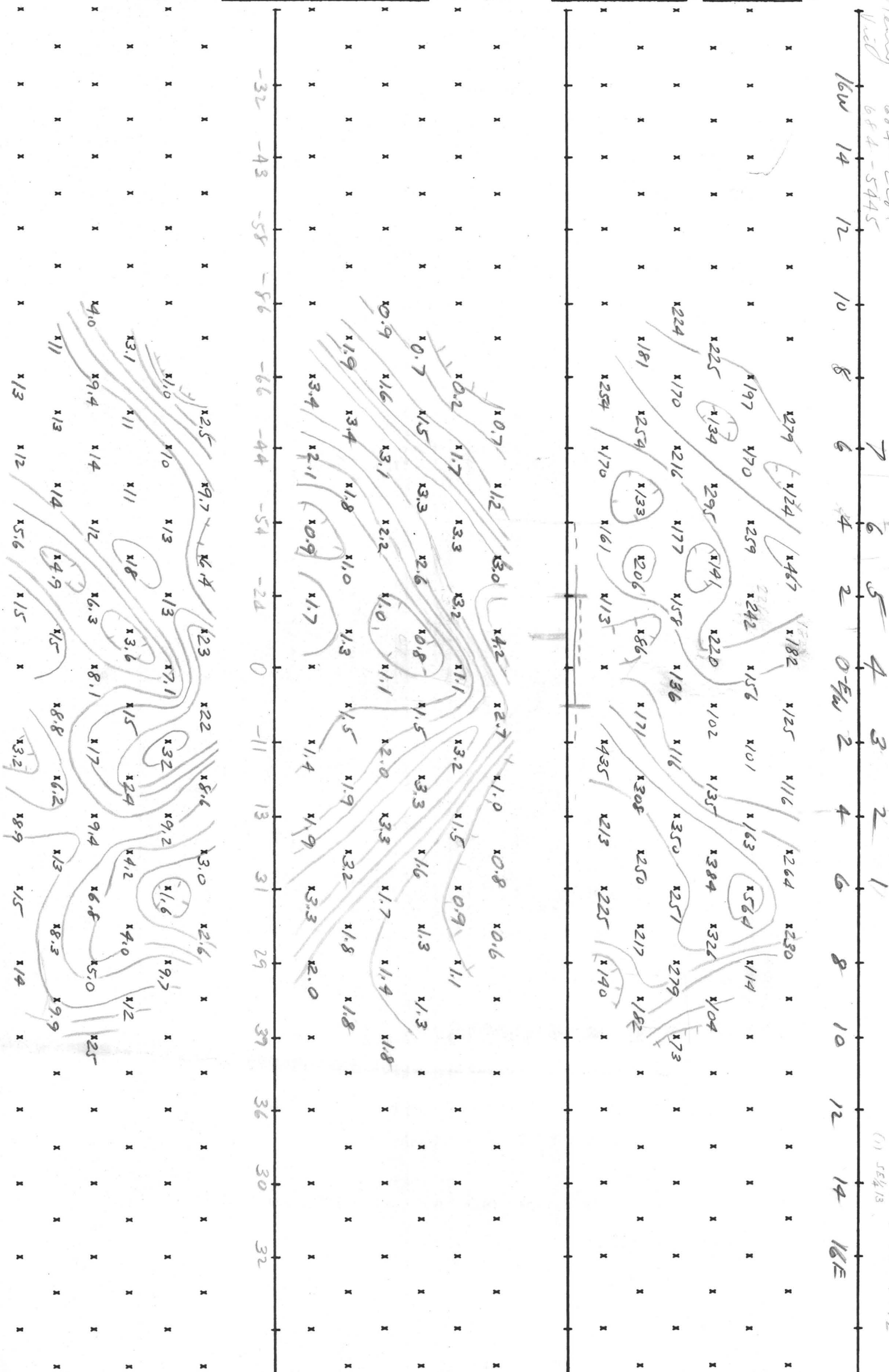


JOB # 1138 CLIENT B&O

DATE Oct. 1976 AREA Brocker

LINE# 3 SP 1 a= 200' BEARING N70°W

RESISTIVITY FREQUENCIES 3.0 FREQUENCIES 0.3 & 3.0 Hz



JOB # 1138 CLIENT BFO

DATE 10-15-76 AREA BFO Brook

LINE# 4 SP 1 a= 200' BEARING N20°E

RESISTIVITY FREQUENCIES

3.0

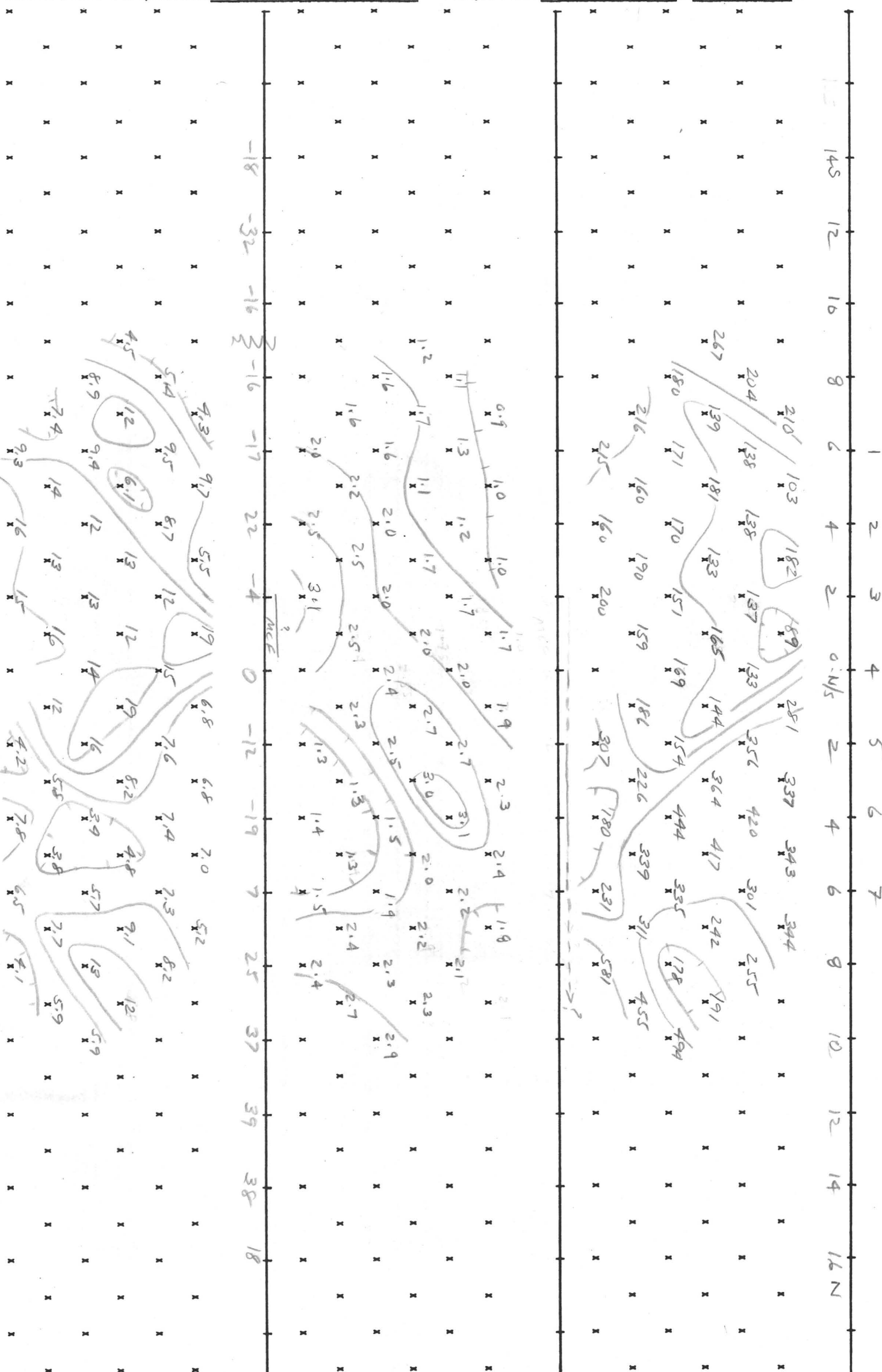
FREQUENCIES

3.0

&

0.3

Hz



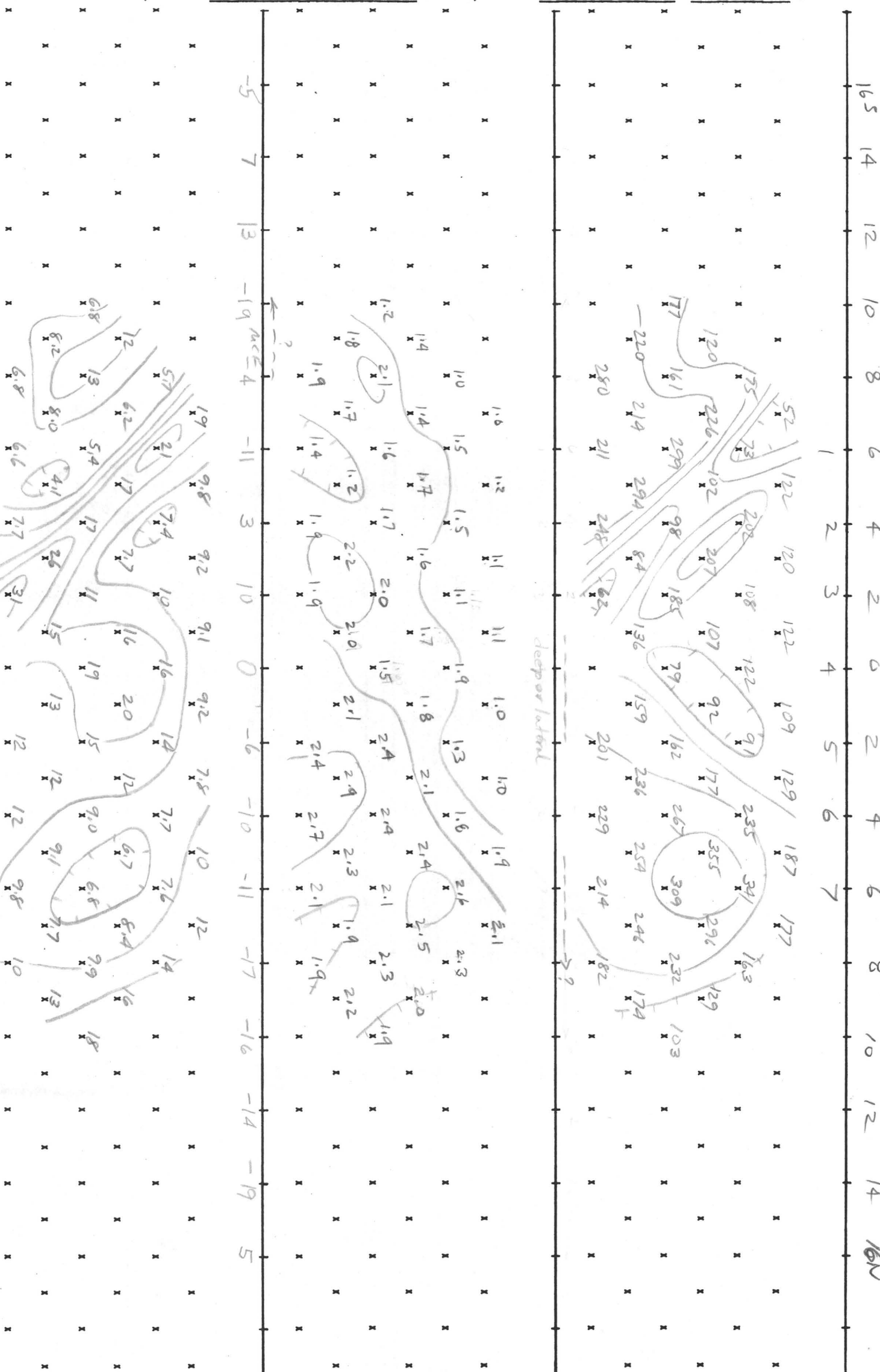
JOB # 1138 CLIENT BFO

DATE 10-16-76 AREA BPO/Braker

LINE# 5 SP 1 a= 200' BEARING N 20° E

RESISTIVITY FREQUENCIES

FREQUENCIES 0.3 & 3.0 Hz





$$C = 1.915 \times 0.2 \times K_n \times \frac{V}{I} \quad \Sigma - m$$

I. P. RECEIVER NOTES, JOB No. 1138, AREA BPO

LINE 5, HALF N, SR \_\_\_\_\_,  $\alpha =$  200', BEARING N 20° E

SENDER STA. 0-N/S = ELECTRODE No. 4, DATE 10-16-76



PAGE 1

HEINRICHS  
GEOEX

SEND	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	CAL
RECEIVE	0-2N	—	2-4N	—	—	4-6N	—	—	—	16-7
MULTIPLIER	10	1.0	10	1.0	1.0	10	1.0	1.0	0.1	1.0
PFE	+1.1	+1.1	+1.0	+1.9	+1.6	+1.0	+1.3	+1.8	+1.4	0.0
CUR. (AMPS)	2	→								1
POINT No.										
SEP. (n)										
H. F. MV	213	46.9	191	53.3	19.4	226	40.0	16.1	6.76	100.7
DRIFT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.0 PFE $K_n/1000$	3	12	3	12	30	3	12	30	60	
0.3 PFE $P_{CAL}$										0.993
0.1 PFE $PFE_c$										
3.0 MV $P/2\pi$	122	107	109	122	111	129	91	92	77	
DRIFT MCF	9.1	10	9.2	16	14	7.8	14	20	18	
S. P.	-21.2	<del>18.6</del>	-19.6			-16.4				
NOISE										
POT RES.	12 K	<del>3.5K</del>	3.5K			3.0K				
CULT & CMTS										

10:30

I. P. RECEIVER NOTES, JOB No. 1134, AREA B-90

LINE 5, HALF N, SP. \_\_\_\_\_, α = 200', BEARING N 20° E

SENDER STA. 0-N/C = ELECTRODE NO. 4, DATE 10-16-76



HEINRICH  
GEOEX

[illegible]



B-10

PAGE 4

HEINRICH  
GEOEX

[illegible]

SENDER STA. 0-N/S = ELECTRODE NO. 4, DATE 10-16-76



PAGE 5

HEINRICH  
GEOEX

[illegible]







## I. P. SENDER NOTES

 JOB No. 1138 AREA 2580  
 LINE 5, HALF N, Sp. \_\_\_\_\_, DATE 10/16/76
Page 1HEINRICH'S  
GEOEX

SEND	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	5-6
RECEIVE	0-2N	→	2-4N	→	→	4-6N	→	→	→	6-8N
RANGE	X10X200	X10X200	X10X200	X10X200	X10X200	X10X200	X10X200	X10X200	X10X200	X10X150
VOLTAGE	470	340	470	470	340	440	460	460	340	390
CURRENT	2	2	2	2	2	2	2	2	2	1.5
SEND	4-5	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3	1-2
RECEIVE	→	→	→	→	8-10N	→	→	→	→	→
RANGE	X10X200	X10X200	X10X200	X10X200	X10X200	X10X150	X10X200	X10X200	X10X200	X10X200
VOLTAGE	440	460	460	340	400	390	440	460	460	340
CURRENT	2	2	2	2	2	1.5	2	2	2	2

 FREQUENCIES 3.0 0.3  
 SENDER No. 14672-5 POWER UNIT ID \_\_\_\_\_  
 OPERATOR MERIKLE BRIGGS 7  
 RECEIVER No. \_\_\_\_\_ HOURS RUN \_\_\_\_\_  
 OPERATOR V.5

 COMMENTS: CAL. ON PAGE 2  
S.T. 10:45

## I. P. SENDER NOTES

JOB No. 1138 AREA B80  
 LINE 5, HALF N, SP. \_\_\_\_\_, DATE 10/16/76



PAGE 2  
 HEINRICH'S  
 GEOEX

SEND	6-7	5-6	4-5	3-4	2-3	6-7	5-6	4-5	3-4	CAL
RECEIVE	10-12N	—————→				12-14N	—————→			6-7
RANGE	X10X200	X10X200	X10X200	X10X200	X10X200	X10X200	X10X200	X10X200	X10X200	X10X100
VOLTAGE	400	520	440	450	450	400	520	440	450	200
CURRENT	2	2	2	2	2	2	2	2	2	1
SEND	6-7	5-6	4-5							
RECEIVE	14-16N	—————→								
RANGE	X10X200	X10X200	X10X200							
VOLTAGE	400	520	440							
CURRENT	2	2	2							

FREQUENCIES 3.0 0.3  
 SENDER No. \_\_\_\_\_ POWER UNIT ID \_\_\_\_\_  
 OPERATOR MERIKLE BRIGGS 7  
 RECEIVER No. \_\_\_\_\_ HOURS RUN \_\_\_\_\_  
 OPERATOR V.S.

COMMENTS:

## I. P. SENDER NOTES

 JOB No. 1138 AREA Box  
 LINE 5, HALF 5, Sp. \_\_\_\_\_, DATE 10/16/76

 PAGE 3  
 HEINRICH'S  
 GEOEX

SEND	SP	SP	3-4	4-5	5-6	6-7	2-3	3-4	4-5	CAL
RECEIVE	0-25	2-45	4-65	→			6-85	→		1-2
RANGE			X10X200	X10X200	X10X200	X10X200	X10X200	X10X200	X10X200	X10X100
VOLTAGE			460	460	520	400	460	460	460	200
CURRENT			2	2	2	2	2	2	2	1
SEND	5-6	6-7	1-2	2-3	3-4	4-5	5-6	6-7	1-2	2-3
RECEIVE	→		8-105	→				→	10-125	→
RANGE	X10X200	X10X200	X10X200	X10X200	X10X200	X10X200	X10X200	X10X200	X10X200	X10X200
VOLTAGE	520	400	360	460	460	460	520	400	360	460
CURRENT	2	2	2	2	2	2	2	2	2	2

 FREQUENCIES 3.0 0.3

 SENDER No. 2672/S POWER UNIT ID

 OPERATOR MERIKLE BRIGGS 7

RECEIVER No. \_\_\_\_\_ HOURS RUN

 OPERATOR V. S.

 COMMENTS: 23
~~VOLTS 460~~
~~RANGE X10X200~~
~~AMPS 2~~



## I. P. SENDER NOTES

JOB No. 1138 AREA BYOLINE 5, HALF 5, Sp. \_\_\_\_\_, DATE 10/16/76PAGE 4HEINRICHS  
GEOEX

SEND	3-4	4-5	5-6	1-2	2-3	3-4	4-5	1-2	2-3	3-4
RECEIVE	→			12-145	→			14-165	→	
RANGE	X10X200	X10X200	X10X200	X10X200	X10X200	X10X200	X10X200	X10X200	X10X200	X10X200
VOLTAGE	460	460	520	360	460	460	460	360	460	460
CURRENT	2	2	2	2	2	2	2	2	2	2
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

## FREQUENCIES

SENDER No. <u>267215</u>	POWER UNIT ID
OPERATOR <u>MERIKLE</u>	<u>BRIGGS 7</u>
RECEIVER No.	HOURS RUN
OPERATOR <u>V.S.</u>	

## COMMENTS:

F.T.

I. P. RECEIVER NOTES, JOB No. 438, AREA B-9

LINE 4, HALF N, SP.         , α = 200', BEARING N 20° E

SENDER STA. 8-N/5 = ELECTRODE NO. 4, DATE 10-15-76



PAGE 1

**HEINRICH  
GEOEX**

[illegible]





I. P. RECEIVER NOTES, JOB No. 1138, AREA B 10

LINE 4, HALF N, SP       ,  $\alpha =$  200', BEARING N 20° E

SENDER STA. 0-NIP = ELECTRODE NO. 4, DATE 10-15-76



PAGE 4

HEINRICH  
GEOEX

[illegible]







HEINRICHS  
GEOEX

[illegible]

## I. P. SENDER NOTES

 JOB No. 1138 AREA B80  
 LINE 4, HALF N, Sp. \_\_\_\_\_, DATE 10/15/76
PAGE 1HEINRICHS  
GEOEX

SEND	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	CAL6
RECEIVE	0-2N	→	2-4N	→		4-6N	→	→	→	6-8N
RANGE	X10X200	X10X200	X10X200	X10X200	X10X200	X10X200	X10X200	X10X200	X10X200	X10X100
VOLTAGE	470	400	500	470	400	400	500	470	400	160
CURRENT	2	2	2	2	2	2	2	2	2	1
SEND	5-6	4-5	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3
RECEIVE					→	8-10N				
RANGE	X10X200	X10X200	X10X200	X10X200	X10X200	X10X250	X10X250	X10X200	X10X200	X10X200
VOLTAGE	320	400	510	470	400	400	400	400	500	480
CURRENT	2	2	2	2	2	2.5	2.5	2	2	2

 FREQUENCIES 3.0 0.3  
 SENDER No. 14672-5 POWER UNIT ID  
 OPERATOR MERIKLE BRIGGS 7  
 RECEIVER No. \_\_\_\_\_ HOURS RUN  
 OPERATOR V.S.

## COMMENTS:

S.T. 11:45

## I. P. SENDER NOTES

JOB No. 1138 AREA B80LINE 4, HALF N, Sp. \_\_\_\_\_, DATE 10/15/76PAGE 2HEINRICH'S  
GEOEX

SEND	1-2	6-7	5-6	4-5	3-4	2-3	6-7	5-6	4-5	3-4
RECEIVE	→	10-12N	→	→	→	→	12-14N	→	→	→
RANGE	X10X200	X10X250	X10X250	X10X200	X10X200	X10X200	X10X250	X10X250	X10X200	X10X200
VOLTAGE	400	400	400	400	500	480	400	400	400	500
CURRENT	2	2.5	2.5	2	2	2	2.5	2.5	2.0	2
SEND	6-7	5-6	4-5							
RECEIVE	14-16N	→	→							
RANGE	X10X250	X10X250	X10X200							
VOLTAGE	400	400	400							
CURRENT	2.5	2.5	2							

FREQUENCIES	<u>3.0</u>	<u>0.3</u>
SENDER No. <u>14672-5</u>	POWER UNIT ID	
OPERATOR <u>MERIKLE</u>	<u>DRIGGS 7</u>	
RECEIVER No.	HOURS RUN	
OPERATOR <u>V.S.</u>		

COMMENTS:

## I. P. SENDER NOTES

 JOB No. 1138 AREA BxO  
 LINE 4, HALF 5, SP. \_\_\_\_\_, DATE 10/15/76
PAGE 3HEINRICHS  
GEOEX

SEND	SP	SP	3-4	4-5	5-6	6-7	2-3	3-4	4-5	5-6
RECEIVE	0-25	2-45	4-65	→	→	→	6-85	→	→	→
RANGE			X10X200	X10X200	X10X250	X10X250	X10X200	X10X200	X10X200	X10X250
VOLTAGE			520	410	410	420	480	520	410	410
CURRENT			2	2	2.5	2.5	2	2	2	2.5
SEND	6-7	1-2	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4
RECEIVE	→	8-105	→	→	→	→	→	10-125	→	→
RANGE	X10X250	X10X200	X10X200	X10X200	X10X200	X10X250	X10X250	X10X200	X10X200	X10X200
VOLTAGE	420	410	500	520	410	420	420	410	500	520
CURRENT	2.5	2	2	2	2	2.5	2.5	2	2	2

FREQUENCIES	<u>3.0</u>	<u>0.3</u>
SENDER No. <u>14672-5</u>	POWER UNIT ID	
OPERATOR <u>MERIKLE BRIGGS</u>	7	
RECEIVER No.	HOURS RUN	
OPERATOR <u>V. S.</u>		

## COMMENTS:

CAL. ON PAGE 2





## I. P. SENDER NOTES

 JOB No. 1138 AREA B80  
 LINE 4, HALF 5, SP. \_\_\_\_\_, DATE 10/15/76
PAGE 24HEINRICHS  
GEOEX

SEND	4-5	5-6	1-2	2-3	3-4	4-5	1-2	2-3	3-4	CAL 1-2
RECEIVE	→		12-14s	→			14-16s	→		16-8s
RANGE	X10X200	X10X250	X10X200	X10X200	X10X200	X10X200				X10X100
VOLTAGE	420	420	410	500	520	420				200
CURRENT	2	2.5	2	2	2	2				1
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES	3.0	0.3
SENDER No.	POWER UNIT ID	
OPERATOR	MERIKLE BRIGGS 7	
RECEIVER No.	HOURS RUN	
OPERATOR	V.S.	

COMMENTS:

F. T.



I. P. RECEIVER NOTES, JOB No/138, AREA B-10

LINE 3, HALF F, SP.       ,  $\alpha$  = 200', BEARING N 70° W

SENDER STA. \_\_\_\_\_ = ELECTRODE NO. 4, DATE 10-14-76



**HEINRICHSGEOEX**

[illegible]

SENDER STATION = ELECTRODE NO. 4, DATE 10-14-76



PAGE 3

HEINRICH  
GEOEX

[illegible]

I. P. RECEIVER NOTES, JOB No. 138, AREA B 10  
 LINE 2, HALF E, SP.       ,  $\alpha =$  200', BEARING N 70° W  
 SENDER STA. 0-E/W = ELECTRODE No. 4, DATE 10-14-76



PAGE 4  
**HEINRICHS  
 GEOEX**

SEND		1-2	2-3	3-4															
RECEIVE		14-16F	—	—															
MULTIPLIER		0.1	1.0	0.1															
PFE		+1.7	+1.7	+1.9															
CUR. (AMPS)		2.5	2.5	1.5															
POINT No.																			
SEP. (n)																			
H. F. MV		7.94	11.4	3.29															
DRIFT		0.0	0.0	0.0															
I.O PFE $K_n/1000$		60	105	168															
0.3 PFE $P_{CAL}$		+1.8	+1.8	+2.0															
0.1 PFE $PFE_c$																			
3.0 MV $P/2\pi$		73	182	140															
DRIFT MCF		25	9.9	14															
S. P.		-28.9																	
NOISE																			
POT RES.		1.9K																	
CULT & CMTS																			

I. P. RECEIVER NOTES, JOB No. 1138, AREA BPO

LINE 3, HALF W, SP. \_\_\_\_\_,  $\alpha =$  200', BEARING \_\_\_\_\_

SENDER STA. 0-E/W = ELECTRODE No. 4, DATE 10-14-76

PAGE 5  
**HEINRICHS  
GEOEX**

SEND	S.P.	S.P.	4-5	3-4	2-3	1-2	5-6	4-5	3-4	2-3
RECEIVE	<del>0-2W</del>	<del>2-4W</del>	<del>4-6W</del>	<del>3-4</del>	<del>2-3</del>	<del>1-2</del>	<del>5-6</del>	<del>4-5</del>	<del>3-4</del>	<del>2-3</del>
MULTIPLIER	0.1	0.1	10	1.0	1.0	1.0	10	1.0	1.0	1.0
PFE			+3.0	+3.2	+0.7	+1.0	+1.2	+3.3	+2.6	+1.0
CUR. (AMPS)			1.5	1.5	2.5	2.5	2.5	1.5	1.5	2.5
POINT No.										
SER. (n)										
H. F. MV			614	84.5	47.4	14.2	272	85.1	18.5	17.3
DRIFT			0.0	0.0	0.0	0.0	0.0	0.0	0.0	+0.1
I.O PFE $K_n/1000$			3	12	30	60	3	12	30	60
0.3 PFE $P_{CAL}$										
0.1 PFE $PFE_c$										
3.0 MV $P/2\pi$			467	257	216	130	124	259	141	158
DRIFT MCF			6.4	12	3.2	7.7	9.7	13	18	6.3
S. P.	-55.0	-60.8	-20.5				-52.5			
NOISE										
POT RES.	4.5K	5.7K	4.0K				47K			
CULT & CMTS										







## I. P. SENDER NOTES

 JOB No. 1138 AREA 280  
 LINE 3, HALF E, SP. E, DATE 10/14/76
PAGE 18HEINRICH'S  
GEOEX

SEND	5-6	6-7	4-5	5-6	6-7	3-4	4-5	5-6	6-7	CALI-2
RECEIVE	0-2 E	→ 2-4 E	→	→	→	4-6 E	→	→	→	
RANGE	X10X200	X10X200	X10X150	X10X250	X10X250	X10X150	X10X150	X10X250	X10X250	X10X100
VOLTAGE	280	240	480	340	300	440	480	340	300	180
CURRENT	2	2	1.5	2.5	2.5	1.5	1.5	2.5	2.5	1
SEND	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5	5-6
RECEIVE	6-8	→	→	→	→	8-10	→	→	→	→
RANGE	X10X250	X10X150	X10X150	X10X250	X10X250	X10X250	X10X250	X10X150	X10X150	X10X250
VOLTAGE	340	440	480	340	300	440	340	440	480	340
CURRENT	2.5	1.5	1.5	2.5	2.5	2.5	2.5	1.5	1.5	2.5

FREQUENCIES .03 3.0SENDER No. 14672-S POWER UNIT IDOPERATOR MERIKLE BRIGGS 7

RECEIVER No. HOURS RUN

OPERATOR V.S

COMMENTS:

5.T. 11:30

## I. P. SENDER NOTES

 JOB No. 1138 AREA AYO  
 LINE 3, HALF E, Sp. \_\_\_\_\_, DATE 10/14/76
PAGE 2HEINRICH'S  
GEOEX

SEND	6-7	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5
RECEIVE	→	10-12 E	→	→	→	→	12-14	→	→	→
RANGE	X10X250	X10X250	X10X250	X10X150	X10X150	X10X250	X10X250	X10X250	X10X150	X10X150
VOLTAGE	300	460	340	440	490	340	460	340	440	490
CURRENT	2.5	2.5	2.5	1.5	1.5	2.5	2.5	2.5	1.5	1.5
SEND	1-2	2-3	3-4							
RECEIVE	14-16	→	→							
RANGE	X10X250	X10X250	X10X150							
VOLTAGE	460	340	440							
CURRENT	2.5	2.5	1.5							

FREQUENCIES .03 3.0SENDER No. 14672-5 POWER UNIT IDOPERATOR MERIKLE BRIGGS 7

RECEIVER No. \_\_\_\_\_ HOURS RUN

OPERATOR V. S

COMMENTS:

## I. P. SENDER NOTES

 JOB No. 1138 AREA B80  
 LINE 3, HALF W, Sp. \_\_\_\_\_, DATE 10/14/76
PAGE 3HEINRICHS  
GEOEX

SEND	SP	SP	4-5	3-4	2-3	1-2	5-6	4-5	3-4	2-3
RECEIVE	0-2W	2-4W	4-6W	—	—	→	6-8W	—	—	—
RANGE			X10X150	X10X150	X10X250	X10X250	X10X250	X10X150	X10X150	X10X250
VOLTAGE			500	440	340	460	340	500	440	340
CURRENT			1.5	1.5	2.5	2.5	2.5	1.5	1.5	2.5
SEND	1-2	6-7	5-6	4-5	3-4	2-3	1-2	6-7	5-6	4-5
RECEIVE	→	8-10W	—	—	—	→	10-12W	—	—	—
RANGE	X10X250	X10X250	X10X250	X10X150	X10X150	X10X250	X10X250	X10X250	X10X250	X10X150
VOLTAGE	460	300	340	500	440	340	380	320	360	500
CURRENT	2.5	2.5	2.5	1.5	1.5	2.5	2.0	2.5	2.5	1.5

FREQUENCIES	<u>3.0</u>	<u>0.3</u>
SENDER No. <u>14672-S</u>	POWER UNIT ID	
OPERATOR <u>MERIKLE BRIGGS 7</u>		
RECEIVER No.	HOURS RUN	
OPERATOR <u>V.5</u>		

 COMMENTS: CAL. ON PAGE 2  
F.T. 5:15

## I. P. SENDER NOTES

JOB No. 1138 AREA B + O  
 LINE 3, HALF W, SP. \_\_\_\_\_, DATE 10/14/76

PAGE 24HEINRICH'S  
GEOEX

SEND	3-4	2-3	6-7	5-6	4-5	3-4	6-7	5-6	4-5	CAL.
RECEIVE	→	→	12-14W	→	→	→	14-16W	→	→	6-7
RANGE	X10X150	X10X250	X10X250	X10X250	X10X150	X10X150	X10X250	X10X250	X10X150	X10X100
VOLTAGE	440	340	320	360	500	440	320	360	500	120
CURRENT	1.5	2.5	2.5	2.5	1.5	1.5	2.5	2.5	1.5	1
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES	<u>3.0</u>	<u>0.3</u>
SENDER No. <u>14672-S</u>	POWER UNIT ID	
OPERATOR <u>MERIKLE</u>	<u>PRIGGS 7</u>	
RECEIVER No.	HOURS RUN	
OPERATOR <u>V. S</u>		

COMMENTS:





I. P. RECEIVER NOTES, JOB No. 1138, AREA B 10

LINE 2, HALF N, SP. \_\_\_\_\_, α = 200', BEARING N 79° E

SENDER STA. 0-N/S = ELECTRODE NO. 200, DATE 10-13-76



HEINRICH  
GEOEX

[illegible]











HEINRICH  
GEOEX

[illegible]

## I. P. SENDER NOTES

JOB No. 1138 AREA B 80LINE 2, HALF N, SP. \_\_\_\_\_, DATE 10/13/76PAGE 1HEINRICH'S  
GEOEX

SEND	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	CAL
RECEIVE	0-2N	→	2-4N	→	4-6N	→	→	→	→	6-7
RANGE	X10X200	X10X200	X10X200	X10X200	X10X200	X10X200	X10X200	X10X200	X10X200	X10X100
VOLTAGE	460	420	400	460	420	280	400	460	420	100
CURRENT	2	2	2	2	2	2	2	2	2	1
SEND	5-6	4-5	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3
RECEIVE	6-8N	→	→	→	→	8-10N	→	→	→	→
RANGE	X10X300	X10X200	X10X200	X10X200	X10X200	X10X300	X10X300	X10X200	X10X200	X10X200
VOLTAGE	220	280	380	460	420	300	220	280	380	460
CURRENT	3	2	2	2	2	3	3	2	2	2

FREQUENCIES .03 3.0

SENDER No. \_\_\_\_\_ POWER UNIT ID \_\_\_\_\_

OPERATOR MERIKLE BRIGGS 7RECEIVER No. 25705-R HOURS RUN \_\_\_\_\_OPERATOR V.S

COMMENTS:

S.T. 9:00

## I. P. SENDER NOTES

JOB No. 1138 AREA B 90LINE 2, HALF N, SP. \_\_\_\_\_, DATE 10/13/76PAGE 2HEINRICHS  
GEOEX

SEND	1-2	6-7	5-6	4-5	3-4	2-3	6-7	5-6	4-5	3-4
RECEIVE	8-10N	10-12N					12-14N			
RANGE	X10X200	X10X300	X10X300	X10X200	X10X200	X10X200	X10X300	X10X300	X10X200	X10X200
VOLTAGE	420	300	220	280	380	460	300	220	280	380
CURRENT	2	3	3	2	2	2	3	3	2	2
SEND	6-7	5-6	4-5							
RECEIVE	14-16N									
RANGE	X10X300	X10X300	X10X200							
VOLTAGE	300	220	280							
CURRENT	3	3	2							

## FREQUENCIES

SENDER No.

POWER UNIT ID

OPERATOR MERIKLE DRIGS 7RECEIVER No. 25705R HOURS RUNOPERATOR V.S.

## COMMENTS:

## I. P. SENDER NOTES

JOB No. 1138 AREA BPO  
 LINE 2, HALF S, SP. \_\_\_\_\_, DATE 10/03/76

PAGE 3HEINRICH'S  
GEOEX

SEND	3-4	4-5	5-6	6-7	2-3	3-4	4-5	5-6	6-7	CAL
RECEIVE	4-65	—	—	→	6-85	—	—	→	6-85	1-2
RANGE	X10X200	X10X200	X10X300	X10X300	X10X200	X10X200	X10X200	X10X300	X10X300	X10X100
VOLTAGE	400	280	220	280	460	400	280	220	280	220
CURRENT	2	2	3	3	2	2	2	3	3	1
SEND	1-2	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5
RECEIVE	8-105	—	—	—	→	—	10-125	—	10-125	—
RANGE	X10X200	X10X200	X10X200	X10X200	X10X300	X10X300	X10X200	X10X200	X10X200	X10X200
VOLTAGE	420	460	400	280	220	280	420	460	400	280
CURRENT	2	2	2	2	3	3	2	2	2	2

FREQUENCIES .03 3.0

COMMENTS:

SENDER No. 14672-5 POWER UNIT IDOPERATOR MERIKLE BRIGS 7

RECEIVER No. \_\_\_\_\_ HOURS RUN

OPERATOR V. J.

## I. P. SENDER NOTES

 JOB No. 1138 AREA B80  
 LINE 2, HALF 5, SP. \_\_\_\_\_, DATE 10/13/76
PAGE 4HEINRICHS  
GEOEX

SEND	5-6	1-2	2-3	3-4	4-5	1-2	2-3	3-4		
RECEIVE	→	12-145	→	→	→	14-165	→	→		
RANGE	X10X300	X10X200	X10X200	X10X200	X10X200	X10X200	X10X200	X10X200		
VOLTAGE	220	420	460	400	280	420	460	400		
CURRENT	3	2	2	2	2	2	2	2		
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES	<u>.03</u>	<u>3.0</u>
SENDER No. <u>14672-5</u>	POWER UNIT ID	
OPERATOR <u>MERIKLE</u>	<u>BRIGGS</u>	
RECEIVER No.	HOURS RUN	
OPERATOR <u>V.S.</u>		

COMMENTS:

F.T. 2:30

I. P. RECEIVER NOTES, JOB No.       , AREA BPOLINE 1, HALF N, SR 1,  $\alpha =$  200, BEARING N 20° ESENDER STA. 0-N/S = ELECTRODE No. 4, DATE 10-12-76PAGE 1HEINRICH'S  
GEOEX

SEND	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	CAL
RECEIVE	0-2N	<del>1-2</del>	2-4N	<del>3-4</del>	<del>1-2</del>	4-6N	<del>3-4</del>	<del>2-3</del>	<del>1-2</del>	6-7
MULTIPLIER	10	10	1.0	1.0	1.0	10	1.0	1.0	0.1	1.0
PFE	+2.2	+2.2	+1.1	+0.3	+1.1	+2.2	+0.5	+0.2	+1.0	0.0
CUR. (AMPS)										
POINT No.										
SEP. (n)										
H. F. MV	608	129	79.0	28.3	13.0	479	39.3	18.7	9.86	100.7
DRIFT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.0 PFE	$K_n/1000$									
0.3 PFE	$P_{CAL}$									
0.1 PFE	$PFE_c$									
3.0 MV	$P/2\pi$									
DRIFT	MCF									
S. P.	-36.3		-12.1	-		-39.9				
NOISE										
POT RES.	5.8K		3.1 K			3.0 K				
CULT & CMTS										

11:50

SENDER STA. 0-N/S = ELECTRODE NO. 4, DATE 10-12-76



PAGE 2

HEINRICH  
GEOEX

[illegible]



I. P. RECEIVER NOTES, JOB No. 8, AREA B 40

LINE 1, HALF N, SR.       ,  $\alpha =$  200', BEARING N 20° E

SENDER STA. 0-615 = ELECTRODE NO. 4, DATE 10-12-76



**HEINRICHSGEOEX**

[illegible]

SENDER STA. D-N/S = ELECTRODE NO. 4, DATE 10-12-76



PAGE 4

HEINRICH  
GEOEX

[illegible]





I. P. RECEIVER NOTES, JOB No.           , AREA B+DLINE 1, HALF S, SR           ,  $\alpha =$  200', BEARING S 20° WSENDER STA. 0-N15 = ELECTRODE No. 4, DATE 10-12-76PAGE 7HEINRICH'S  
GEOEX

SEND	5-6	6-7	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4
RECEIVE	8-10S	→	10-12S				→	12-14S		
MULTIPLIER	0.1	0.1	1.0	1.0	1.0	1.0	0.1	1.0	1.0	0.1
PFE	+1.1	+1.0	+0.8	+1.2	+1.4	+2.7	+1.3	+1.3	+1.3	+1.5
CUR. (AMPS)										
POINT No.										
SER. (n)										
H. F. MV	3.38	2.98	10.5	35.7	16.0	15.3	2.75	35.5	15.5	7.13
DRIFT	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.0 PFE $K_n/1000$										
0.3 PFE $P_{CAL}$										
0.1 PFE $PFE_c$	+1.2	+1.1	+0.9	+1.3	+1.5	+2.8	+1.4	+1.4	+1.4	+1.6
3.0 MV $P/2\pi$										
DRIFT MCF										
S. P.			-6.0					-57.3		
NOISE										
POT RES.			3.7K					7.3K		
CULT & CMTS										

12-14S

HEAVY

GAUSSIAN

ZONE (10'-20' WIDE)

I. P. RECEIVER NOTES, JOB No. 1, AREA B70

LINE 1, HALF 5, SP. \_\_\_\_\_, α = 200', BEARING S 20° W

SENDER STA. 0-N/S = ELECTRODE NO. 4, DATE 10-12-76



**HEINRICH  
GEOEX**

[illegible]

## I. P. SENDER NOTES

JOB No. 1138 AREA BPOLINE 1, HALF N, SP. 1, DATE 10-12-76PAGE 1HEINRICH'S  
GEOEX

SEND	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	CAL
RECEIVE	0-2N	→	2-4N	→	→	4-6N	→	→	→	6-7
RANGE	X10X250	X10X250	X10X200	X10X250	X10X250	X10X200	X10X200	X10X250	X10X250	X10X100
VOLTAGE	320	320	440	320	320	440	400	320	320	160
CURRENT	2.5	2.5	2.5	2.5	2.5	2	2	2.5	2.5	1
SEND	5-6	4-5	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3
RECEIVE	6-8N	→	→	→	→	<del>8-10N</del>	→	→	→	→
RANGE	X10X250	X10X200	X10X200	X10X250	X10X250	<del>X10X100</del>	X10X250	X10X200	X10X200	X10X250
VOLTAGE	400	460	420	320	320	<del>160</del>	400	480	420	320
CURRENT	2.5	2	2	2.5	2.5	<del>1</del>	2.5	2	2	2.5

FREQUENCIES 3.0, 0.3

SENDER No. \_\_\_\_\_ POWER UNIT ID \_\_\_\_\_

OPERATOR \_\_\_\_\_

RECEIVER No 25705-R HOURS RUN \_\_\_\_\_OPERATOR V.S

COMMENTS:

↓  
6-7  
VOLTS 400  
RANGE X10X250 2.5 AMPS



## I. P. SENDER NOTES

JOB NO. 1138 AREA BPOLINE 1, HALF N, SP. \_\_\_\_\_, DATE 10-12-76PAGE 2HEINRICHS  
GEOEX

SEND	1-2	6-7	5-6	4-5	3-4	2-3	6-7	5-6	4-5	3-4
RECEIVE	8-10N	10-12N					12-14N			
RANGE	X10X250	X10X250	X10X250	X10X200	X10X200	X10X250	X10X250	X10X250	X10X200	X10X200
VOLTAGE	320	400	400	480	420	320	400	400	480	440
CURRENT	2.5	2.5	2.5	2	2	2.5	2.5	2.5	2	2
SEND	6-7	5-6	4-5							
RECEIVE	14-16N									
RANGE	X10X250	X10X250	X10X200							
VOLTAGE	400	400	480							
CURRENT	2.5	2.5	2							

FREQUENCIES	<u>.03</u> <u>3.0</u>
SENDER No. <u>14672-5</u>	POWER UNIT ID
OPERATOR <u>MERIKLE</u>	<u>BRIGS</u>
RECEIVER No.	HOURS RUN
OPERATOR <u>V.5</u>	

COMMENTS:

F.T. 2:30

## I. P. SENDER NOTES

 JOB No. 1138 AREA \_\_\_\_\_  
 LINE 1, HALF 5, SP. \_\_\_\_\_, DATE 10/12/76
PAGE 3HEINRICH'S  
GEOEX

SEND	5-6	6-7	4-5	5-6	6-7	3-4	4-5	5-6	6-7	2-3
RECEIVE	0-25	→	2-45	→	→	4-65	→	→	→	6-85
RANGE	X10X250	X10X250	X10X200	X10X250	X10X250	X10X200	X10X200	X10X250	X10X250	X10X250
VOLTAGE	420	400	500	420	400	440	500	420	400	340
CURRENT	2.5	2.5	2	2.5	2.5	2	2	2.5	2.5	2.5
SEND	3-4	4-5	5-6	6-7	CAL	1-2	2-3	3-4	4-5	5-6
RECEIVE	6-85	→	→	→	1-2	8-105	→	→	→	→
RANGE	X10X200	X10X200	X10X250	X10X250	X10X100	X10X250	X10X250	X10X200	X10X200	X10X200
VOLTAGE	440	500	420	400	120	320	320	440	500	320
CURRENT	2	2	2.5	2.5	1	2.5	2.5	2	2	2

## FREQUENCIES

SENDER No. <u>T.M</u>	POWER UNIT ID
OPERATOR <u>14672-5 BRIGGS 7</u>	HOURS RUN
RECEIVER No. <u>V.S</u>	
OPERATOR <u>V.S</u>	

## COMMENTS:

S.T. 8:30

## I. P. SENDER NOTES

 JOB No. 1138 AREA B70  
 LINE 1, HALF 5, SP. 1, DATE 10/12/76
PAGE 4HEINRICH'S  
GEOEX

SEND	6-7	1-2	2-3	3-4	5-6	1-2	2-3	3-4	4-5	
RECEIVE	8-10S	10-12S				12-14S				
RANGE	X10X200	X10X250	X10X250	X10X200	X10X200	X10X250	X10X250	X10X200	X10X200	
VOLTAGE	320	320	320	440	320	320	320	440	500	
CURRENT	2	2.5	2.5	2.0	2	2.5	2.5	2	2	
SEND	1-2	2-3	3-4							
RECEIVE	14-16S									
RANGE	X10X250	X10X250	X10X200							
VOLTAGE	320	320	440							
CURRENT	2.5	2.5	2							

FREQUENCIES	.03	3.0
SENDER No.	POWER UNIT ID	
OPERATOR	MERIKLE BRIES 7	
RECEIVER No.	HOURS RUN	
OPERATOR	V.S	

COMMENTS

→ 4-5

 500 VOLTS  
 RANGE X10X200  
 2 AMPS



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8  
N

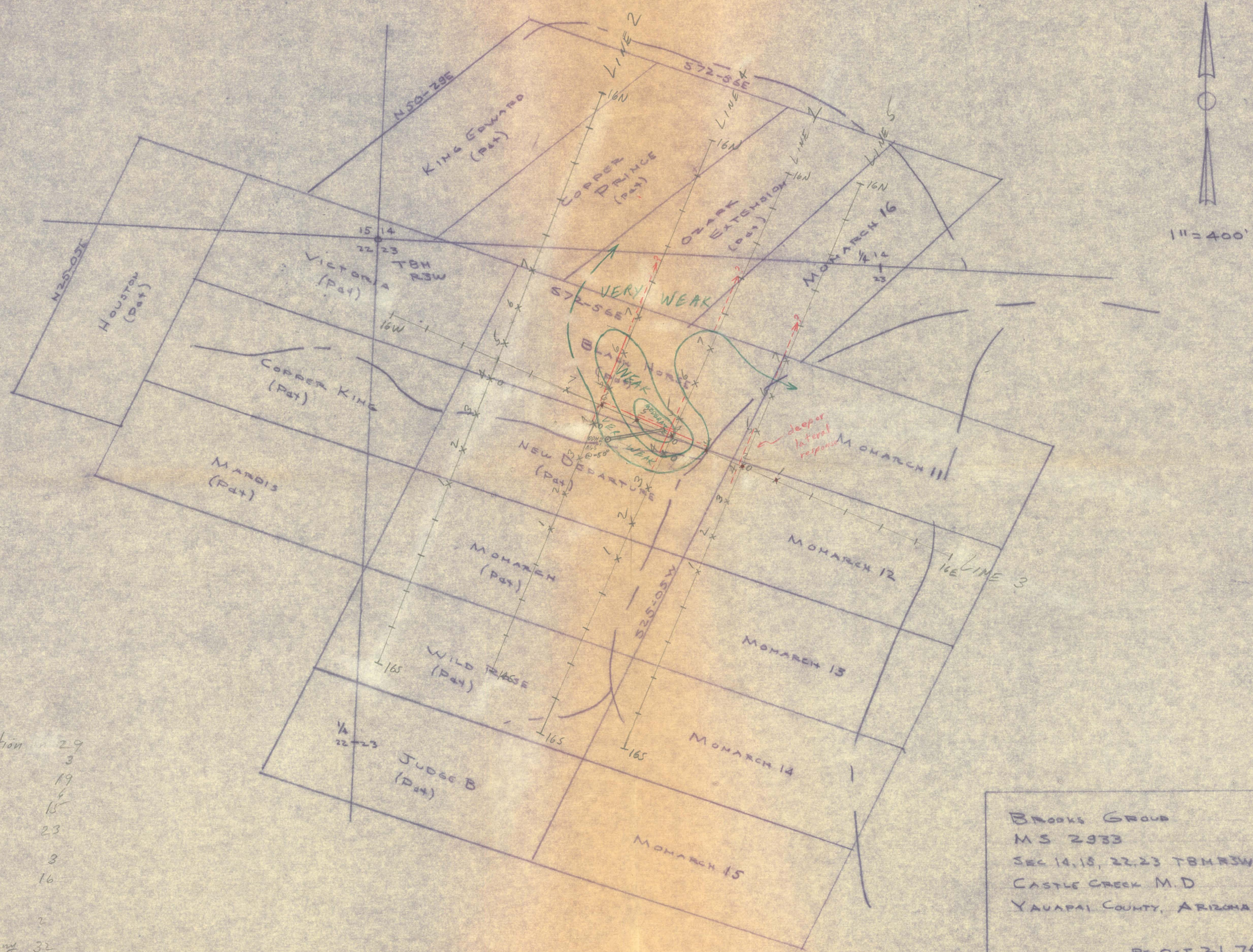
HEINRICHS GEOEXPLORATION COMPANY  
P.O. BOX 5964, TUCSON, AZ. 85703  
JOB # 1138 NOVEMBER 1976





+ x IP LINE  
 Electrode  
 station  
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 --- W } An  
 --- MUD } Str  
 ~ SC of RAS

Induced Polarization Location 29  
 and 3  
 Interpretation Plan 19  
 of the 6  
 Brooks Property 15  
 Yavapai County, Arizona 23  
 for 3  
 O'Leary & Brooks 16  
 by 2  
 Heinrichs GEOEXploration Company 32  
 P.O. Box 5964, Tucson, AZ. 85703 32  
 Job# 1138 November 1976 13



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 R3W

Job# 1138

BROOKS GROUP  
 MS 2933  
 SEC 14, 15, 22, 23 T8M R3W  
 CASTLE CREEK M.D  
 YAVAPAI COUNTY, ARIZONA  
 REV OCT 21, 76  
 DSO'LEARY SEPT 30 76





BROOKS GROUP  
 MS 2933  
 SEC 14, 15, 22, 23 T8M R3W  
 CASTLE CREEK M.D  
 YAVAPAI COUNTY, ARIZONA  
 DSO'LEARY SEPT 30 76

SUGGESTED IP LINE  
 Job # 1138 - OCT 76



422

T  
8  
N

I. P. LINE  
ELECTRODE  
STATION

- - - - - VERY WEAK  
 \_\_\_\_\_ WEAK  
 = = = = = MODERATE

} RELATIVE ANOMALY STRENGTH

SCHEMATIC CONTOUR OF RELATIVE ANOMALY STRENGTH

INDUCED POLARIZATION LOCATION  
AND  
INTERPRETATION PLAN  
OF THE  
BROOKS PROPERTY  
YAVAPAI COUNTY, ARIZONA  
FOR  
O'LEARY & BROOKS

HEINRICHS GEOEXPLORATION COMPANY  
P.O. BOX 5964, TUCSON, AZ. 85703  
JOB # 1138 NOVEMBER 1976

Preliminary





BROOKS GROUP  
 MS 2933  
 SEC 14, 15, 22, 23 T8M R3W  
 CASTLE CREEK M.D  
 YAVAPAI COUNTY, ARIZONA  
 D.S. O'LEARY SEPT 30 76

Oct 76  
 Sub # 1138