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

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

ACCESS STATEMENT

These digitized collections are accessible for purposes of education and research. We have indicated what we know about copyright and rights of privacy, publicity, or trademark. Due to the nature of archival collections, we are not always able to identify this information. We are eager to hear from any rights owners, so that we may obtain accurate information. Upon request, we will remove material from public view while we address a rights issue.

CONSTRAINTS STATEMENT

The Arizona Geological Survey does not claim to control all rights for all materials in its collection. These rights include, but are not limited to: copyright, privacy rights, and cultural protection rights. The User hereby assumes all responsibility for obtaining any rights to use the material in excess of "fair use."

The Survey makes no intellectual property claims to the products created by individual authors in the manuscript collections, except when the author deeded those rights to the Survey or when those authors were employed by the State of Arizona and created intellectual products as a function of their official duties. The Survey does maintain property rights to the physical and digital representations of the works.

QUALITY STATEMENT

The Arizona Geological Survey is not responsible for the accuracy of the records, information, or opinions that may be contained in the files. The Survey collects, catalogs, and archives data on mineral properties regardless of its views of the veracity or accuracy of those data.

INDUCED POLARIZATION SURVEY

of the

PINAL CLAIM GROUP

PINAL COUNTY, ARIZONA

for

CUTLASS EXPLORATION AND DEVELOPMENT

February 1974

by

HEINRICHS GEOEXPLORATION COMPANY
P.O. Box 5964 Tucson, Arizona

GEOEX Job #896

CONTENTS

INTRODUCTION

At the request of Dr. R. H. Seraphim, Geological Consultant on behalf of Cutlass Exploration and Development, Heinrichs GEOEXploration Company completed an induced polarization (IP) survey on the Pinal Claim Group, Papago Indian Reservation, Pinal County, Arizona. This survey took place during the interim January 23 to February 7, 1974, after initial discussions and a brief field inspection by our Senior Geophysicist, Mr. Paul A. Head, with Dr. Seraphim.

GEOEX personnel involved in the field work were Mr. Russell Jolliffe, Geophysical Supervisor; Mr. Ronald Petersen, Geophysicist and Mr. Thomas Downing, Technical Assistant. Interpretation and report are by Mr. Chris S. Ludwig, Chief Geophysicist assisted by the GEOEX staff.

The purpose of this IP survey was to detect and delineate any significant subsurface sulfide zones in an area showing indications of disseminated copper mineralization. Previous geophysical work in the eastern half of the claim group indicated open-ended IP response to the west which the GEOEX survey extended and closed off.

CONCLUSIONS AND RECOMMENDATIONS

A generally N65°E trending zone of probable sulfide caused anomalous IP response, deepening to the west and about 1000 feet wide, was defined which apparently correlates with the previous IP anomalism; extending it from about 66W to 106W. This extended anomalism is of such size and strength as to be of possible economic significance, particularly if there is a favorable ratio present of ore polarizing minerals to non-ore polarizing minerals.

Drilling is recommended to determine the economic potential of the IP response. Two initial drill sites are suggested to test the strongest portions of the anomaly at depth. (Please refer to the appended "Comments on Drilling IP Targets" for further details on drilling.)

1. A vertical hole collared near 5S on Line 86W should test the IP high within its strongest portion, in a previously undrilled area, and apparently near favorable surface geologic indications. Top of the polarizable source is interpreted as being roughly 1000 feet deep, and the drill hole should be programmed for at least 1500 feet total depth to obtain a representative intersection of the causative subsurface source material.

2. A vertical hole is suggested near 0-N/S on Line 76W to test similar, somewhat shallower IP response than on Line 86W. This target is nearer to previous deep drilling, which was apparently only marginally interesting, and is therefore given a lower priority than the 86W target. Depth to the top of the source is estimated at roughly 750 feet, but the drill hole should sample to about 1500 for a proper evaluation.

If this initial drilling gives encouraging results, additional geophysical targets can be selected by reference to the surface projected anomalism on the plan map and its correlation with all other information available. The weaker fringes of IP response should also be given some consideration, particularly if in areas of geochemical or geological interest. In some districts, the weaker IP zones can be of more interest than the stronger zones which may only be reflecting higher pyrite concentrations. In this area, because of the moderate to low strength sulfide concentrations indicated, initial attention has been focused on the strongest response in the hope it would have the highest probability of being economically significant.

The previous geophysical coverage in the east half of the claim group was somewhat randomly situated and internally inconsistent, making it difficult to properly interpret and correlate with the recent coverage. Therefore, additional N-S IP coverage on 500 foot dipole lengths and 1000 foot line separations is recommended east of Line 76W to give a complete and coherent geophysical assessment of the property.

INTERPRETATION

The GEOEX coverage shows an elongate, generally N65°E trending IP anomaly, deepening (and probably weakening) to the southwest, ranging in relative strength from moderate to very weak. The moderate and weak strength response is probably the most significant and defines a zone 500 to 1500 feet in width, and at least 4000 feet long; open-ended to the east. A very weak anomalous fringe adds about 500 feet of width to the zone and at least 1000 feet of strike length to the southwest. Line 116W is considered to delimit the western end of the anomaly at least to the depths searched, i.e., 1500 to 2000 feet below surface.

Depth to the top of the anomaly source is variable and difficult to estimate. Lines 0-N/S and 76W suggest roughly 750 feet to the top. Line 86W suggests about 1000 feet; Line 96W between 1000 and 1500 feet, and Line 106W deeper than 1500 feet to the source. Actually, the top of the source may be a very gradational increase in polarizable content rather than a sharply defined boundary.

Depth extent of the anomaly source is probably to at least 2000 feet below surface in that no decrease is indicated even on the deepest coverage.

The anomaly response pattern is compatible with a fairly steeply dipping, depth extended wide body, having little or no resistivity contrast with its surroundings. The lack of resistivity contrast is somewhat atypical but could be explained, for example, by silicification (generally a high resistivity rock alteration product) counteracting the effect of any conductive polarizable mineralization present.

The cause of the anomalous polarization is likely metallic lustered sulfide mineralization such as pyrite or chalcopyrite, although other metallic lustered non-sulfide minerals, such as certain iron and manganese oxides, or graphite or conceivably even certain clay minerals, could be contributing to the response. In the strongest parts of the anomaly, about 0.5 to 2 percent total sulfide by volume (roughly 1 to 4 percent by weight) is estimated based on the interpreted source geometry and comparison with "typical" disseminated sulfide zones in the southwestern U.S. The weaker fringing response perhaps represents less than 0.5 to 1 percent total sulfide by volume.

These estimated sulfide concentrations are meant only as a crude relative guide and in practice are often found to be at considerable variance with actual sulfide assays. Regardless, the indicated polarizable concentration is high enough that the anomaly could be of economic interest providing the ratio between ore polarizing mineral content (such as chalcopyrite, molybdenite, etc.) and non-ore polarizing mineral content (such as pyrite, magnetite, etc.) is reasonably high.

Outside the anomaly, most of the area shows a rather low, uniform, background IP response. The resistivity shows little correlation with the IP. Lower resistivities are noted on the north halves of the N-S lines and near surface along most of Line 116W and are probably caused by a relatively conductive veneer of alluvium overlying the more resistive bedrock.

The self potentials are quite uniform over the area surveyed and show no obvious correlation with the IP. Lack of self potential lows implies a lack of actively oxidizing, relatively interconnected, conductive sulfides within several hundred feet of the surface. This is not in conflict with the IP which suggests a rather disseminated, not particularly conductive, deep sulfide zone in this case.

PROCEDURES

A GEOEX MK-4 multifrequency IP system was employed to obtain this coverage with sending frequency pairs of 0.3 vs. 3.0 hz and 0.1 vs. 1.0 hz. The standard collinear dipole-dipole array was used with both 500 and 1000 foot dipole lengths on all lines except Line 0-N/S which had 500 foot dipoles only. Data was obtained with "spreads" of five sending electrodes for the 1000 foot dipole coverage and seven sending electrodes for the 500 foot dipole coverage.

Sending-receiving dipole separations range from 1 to 6 dipole lengths on all lines and, typically, this should give resolvable depth penetration within the zone ranging from about 300 feet to as much as 2000 feet below surface for the 1000 foot dipole coverage. The 500 foot dipole lines would double the resolution but would penetrate only about one half as deep as the 1000 foot dipole lines.

A total of 20.5 line miles of IP coverage was obtained on this survey, of which 12.3 miles is "subsurface" plotted data.

The IP data are presented on "sectional" data sheets, one for each spread, showing, from top to bottom; resistivity, percent frequency effect (PFE), and metallic conduction factor (MCF) contoured in "sectional" form. The self potential readings taken in conjunction with the IP readings are shown at the bottom of the 500 foot dipole sectional sheets in profile form. An "Induced Polarization Location and Interpretation Plan" is also included showing the surface projected plan interpretation at a scale of 1" = 400' to overlay the Cutlass geology and claim base maps.

Respectfully submitted,

Heinrichs GEOEXploration Company

Chris S. Ludwig

Chris S. Ludwig
Chief Geophysicist

Approved by:

Walter E. Heinrichs, Jr. C.P.G. #688
President

COMMENTS ON DRILLING I.P. TARGETS

To maximize the probability that a recommended drill hole will intersect the source of an induced polarization anomaly, the following points should be considered:

1. The anomaly has been caused by some physical property, hopefully a polarizable body containing economically interesting metallic mineralization, and this property should be determined before abandoning the anomaly.

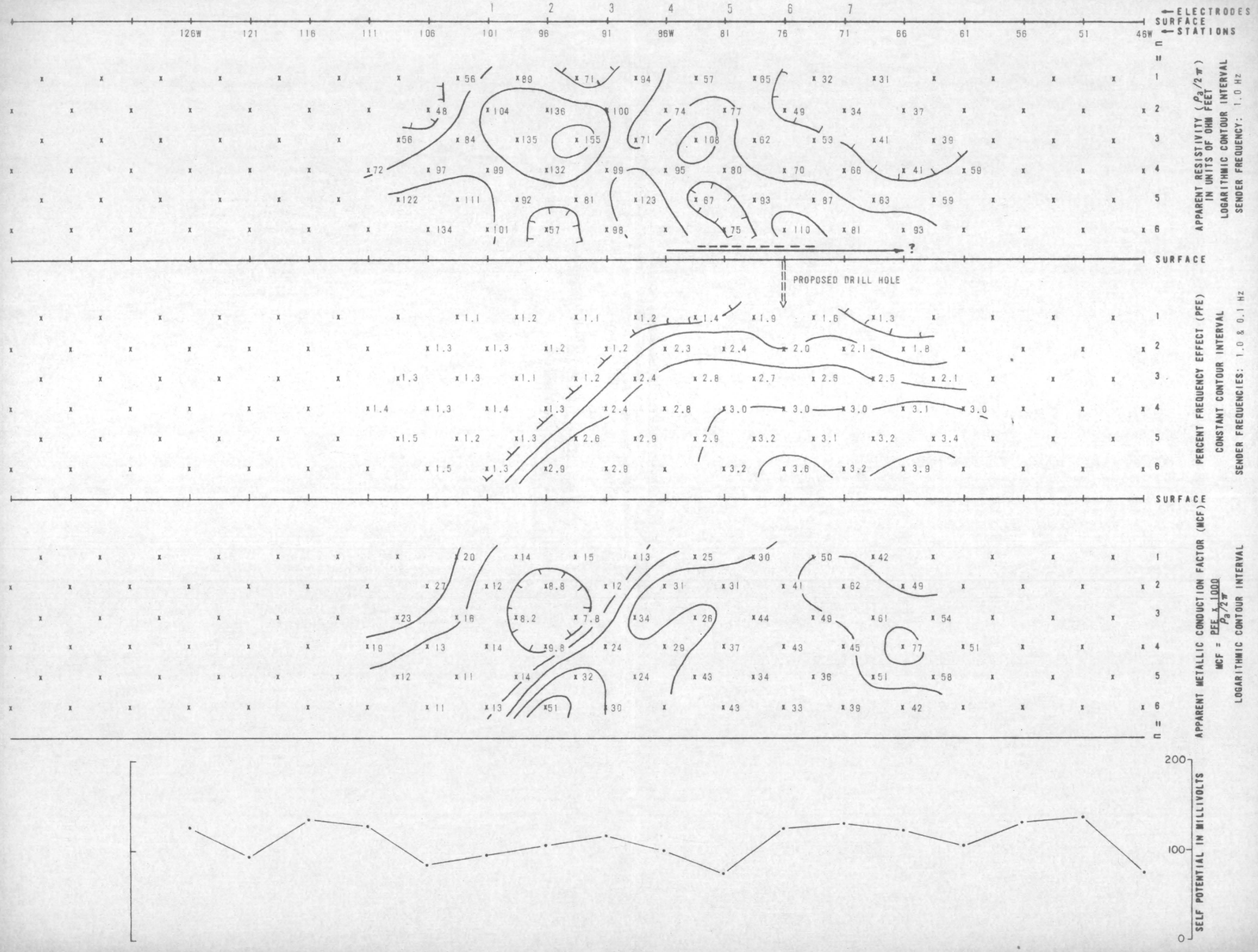
2. Location of drill holes should be made relative to the actual sending and receiving electrode positions as they exist on the ground.

3. Due to inherent limitations in the I.P. method, depth interpretations are only approximate and the determination of dip is severely limited, particularly for angles greater than 45°. Also, targets can generally be laterally resolved no finer than the station spacing (dipole length). Because of these limitations, targets less than one dipole spacing in width, particularly when steeply dipping or deeper than the dipole length, may be difficult to intersect. In these cases, several drill holes in a fence line should be considered. For the steeply dipping cases, angle drilling may also prove advantageous, mainly where the direction of dip can be geologically inferred and the drill hole oriented such that an optimum intersection of the zone of interest is obtained.

4. An observed anomaly can be the effect of a polarizable body laterally offset to the side of a line and therefore, if practical, drilling should be confined to those portions of the anomalous zones well defined by several lines. Also, it should be noted that a single line cannot define the strike direction of an elongate anomalous zone - another reason for utilizing several parallel lines.

5. Logging of the drill core must be done with special care to note the quantity of <u>all</u> possible polarizable material such as pyrite, graphite, magnetite, manganese oxides and clay minerals as well as the polarizable ore minerals. The anomalous source could conceivably be overlooked if the core is not carefully logged.

6. Typical sections of core representing the gross physical properties of material encountered in the drilling should be tested in the laboratory for their I.P. parameters, if there is some doubt about confirmation of the anomalous source.

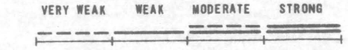


696-74

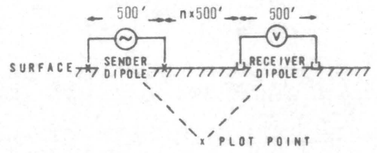
LINE NO.
0-N/S
SPREAD(S)
I
BEARING
N 87½° W

INDUCED POLARIZATION TRAVERSE SECTIONAL DATA SHEET of PINAL CLAIM GROUP for CUTLASS EXPLORATION & DEVELOPMENT

RELATIVE ANOMALY STRENGTH

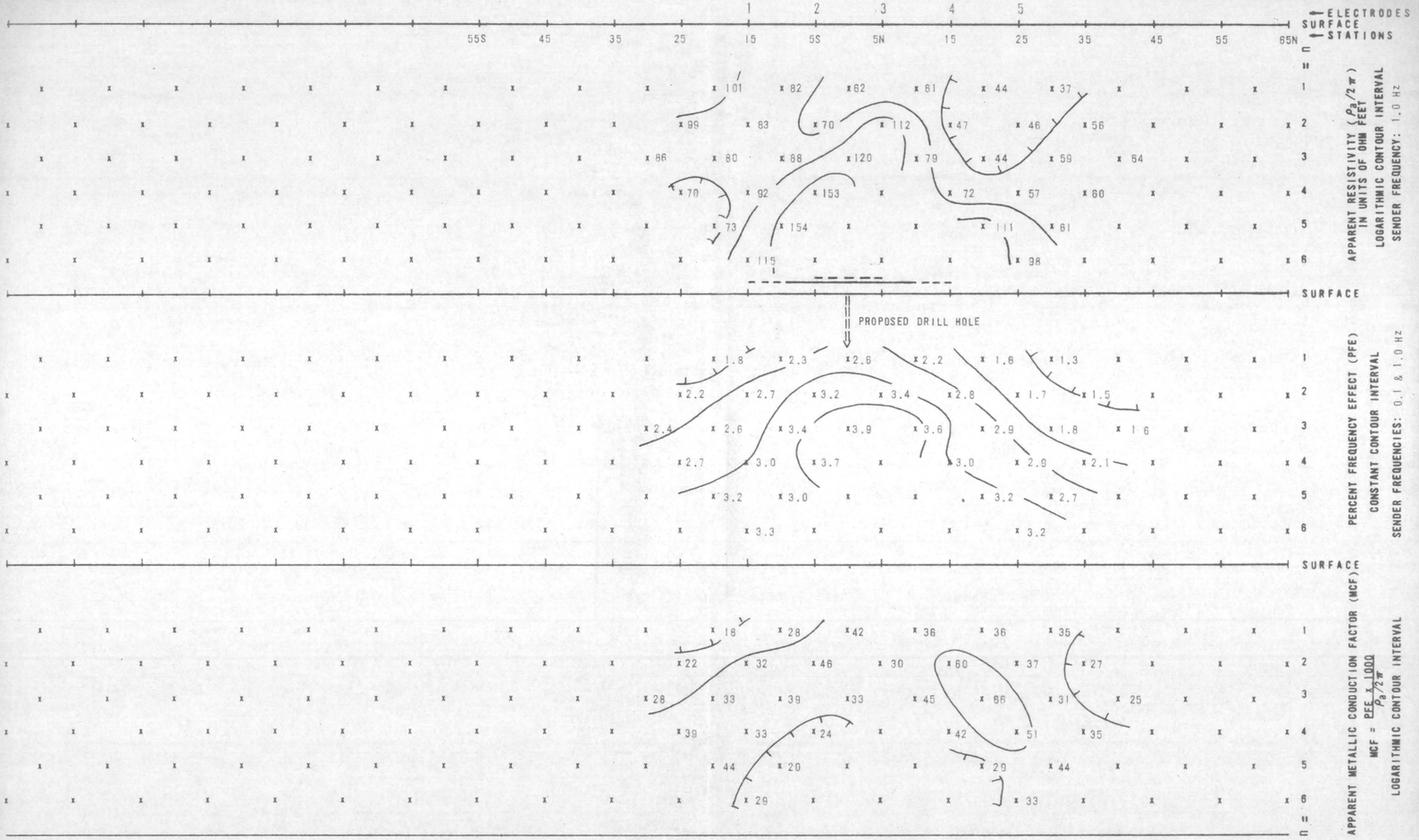


DIPOLE-DIPOLE ELECTRODE ARRAY



DATE
JANUARY 1974

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



APPARENT RESISTIVITY ($\rho_a/2\pi$) IN UNITS OF OHM FEET
LOGARITHMIC CONTOUR INTERVAL
SENDER FREQUENCY: 1.0 Hz

PERCENT FREQUENCY EFFECT (PFE)
CONSTANT CONTOUR INTERVAL
SENDER FREQUENCIES: 0.1 & 1.0 Hz

APPARENT METALLIC CONDUCTION FACTOR (MCF)
$MCF = \frac{PFE \times 1000}{\rho_a/2\pi}$
LOGARITHMIC CONTOUR INTERVAL

SELF POTENTIAL IN MILLIVOLTS

898-74

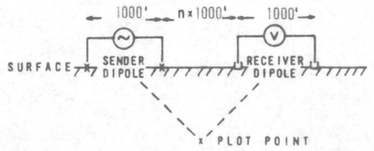
LINE NO.
76W
SPREAD(S)
1
BEARING
N/S

INDUCED POLARIZATION TRAVERSE SECTIONAL DATA SHEET of PINAL CLAIM GROUP for CUTLASS EXPLORATION & DEVELOPMENT

RELATIVE ANOMALY STRENGTH

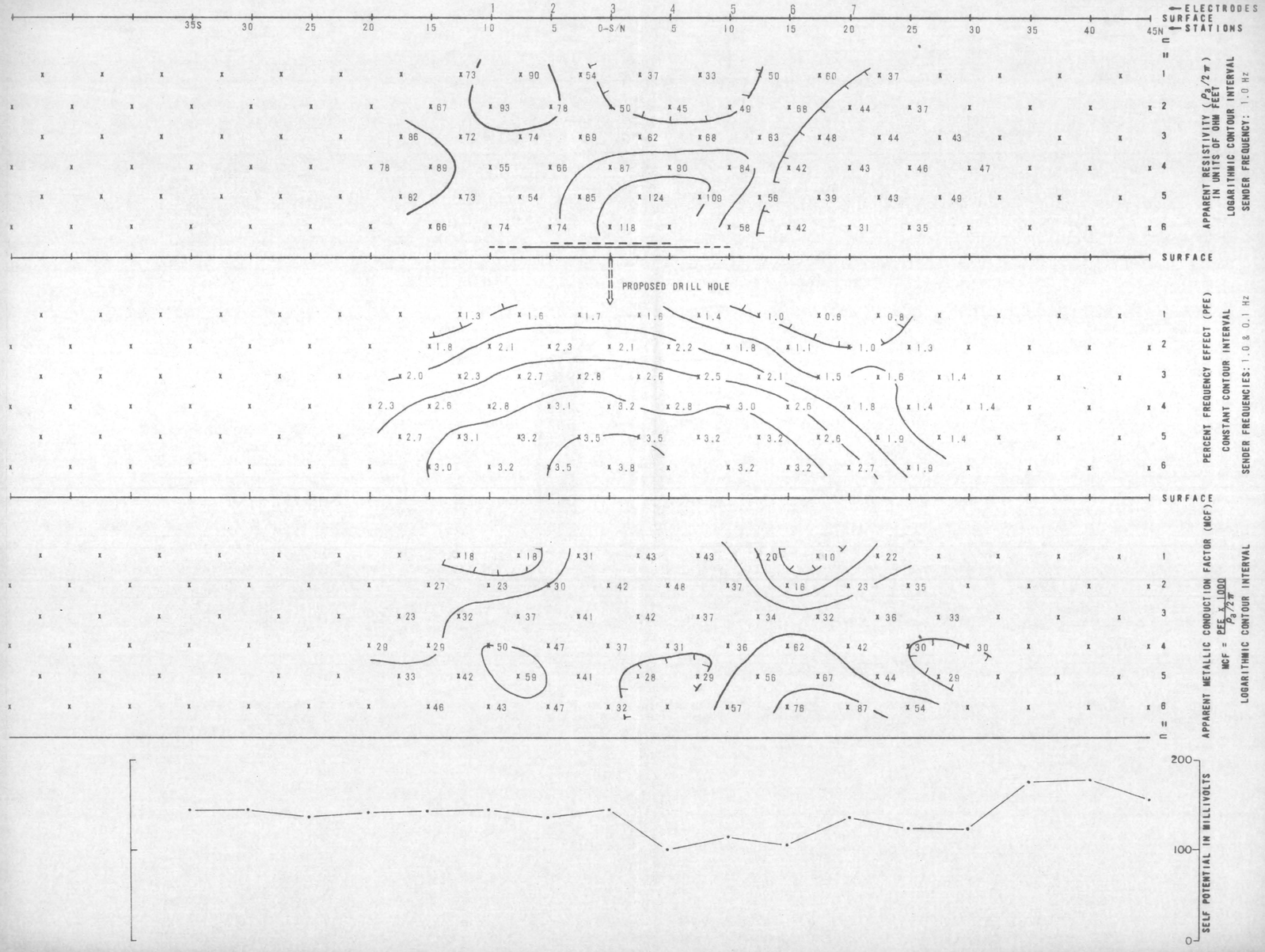
VERY WEAK — WEAK — MODERATE — STRONG

DIPOLE-DIPOLE ELECTRODE ARRAY



DATE
JANUARY 1974

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

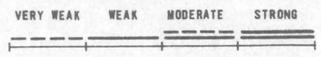


896-74

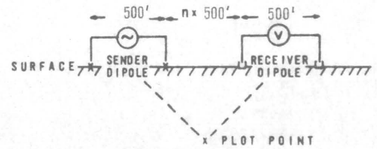
LINE NO. 76W
SPREAD(S) 2
BEARING N-S

INDUCED POLARIZATION TRAVERSE SECTIONAL DATA SHEET of PINAL CLAIM GROUP for CUTLASS EXPLORATION & DEVELOPMENT

RELATIVE ANOMALY STRENGTH

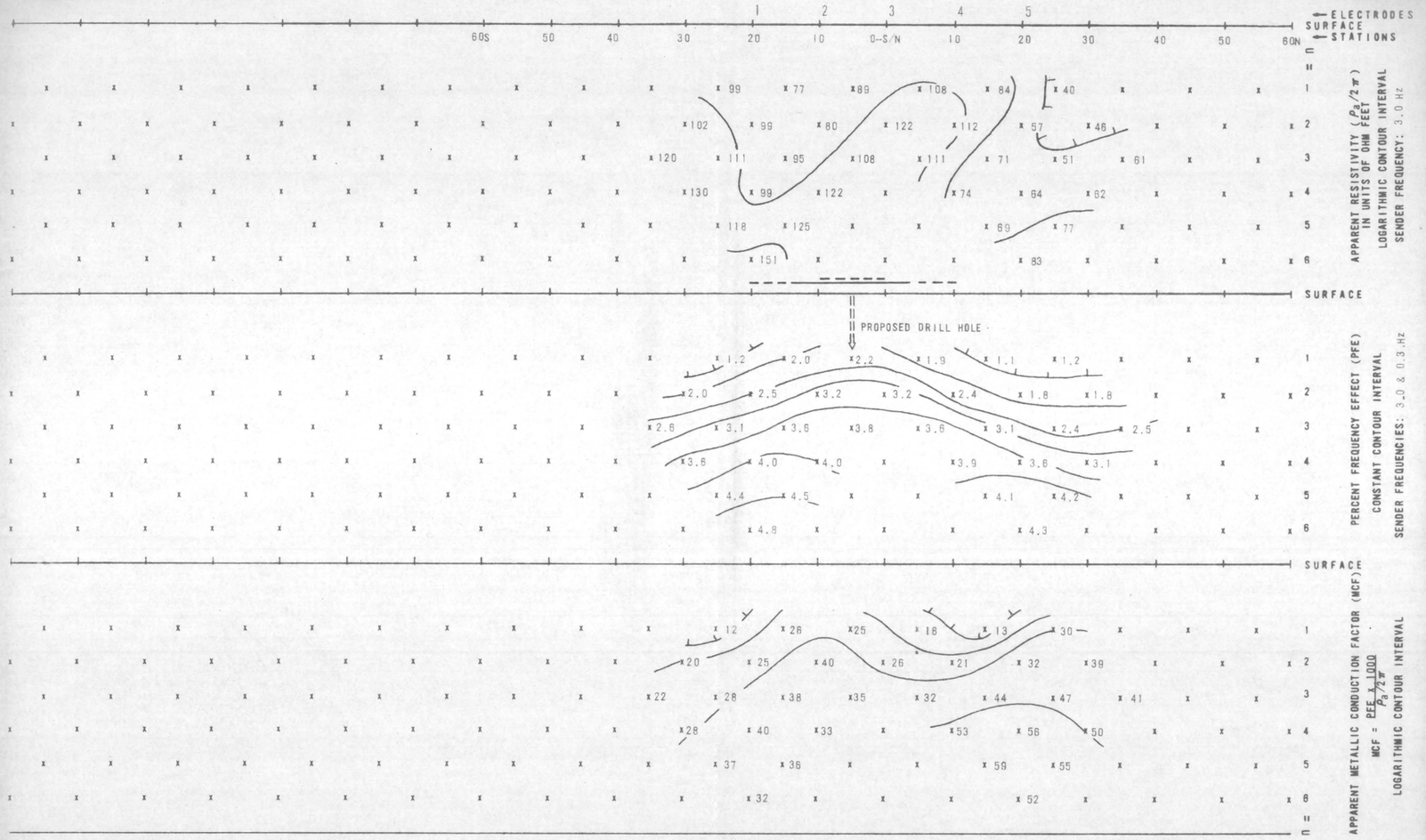


DIPOLE-DIPOLE ELECTRODE ARRAY



DATE
JANUARY 1974

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



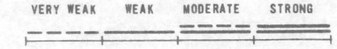
SEE SPREAD 2

896-73

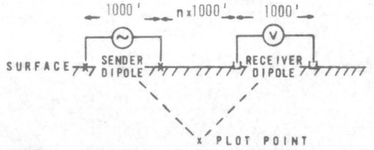
LINE NO.
86W
SPREAD(S)
1
BEARING
N-S

INDUCED POLARIZATION TRAVERSE SECTIONAL DATA SHEET of PINAL CLAIM GROUP for CUTLASS EXPLORATION & DEVELOPMENT

RELATIVE ANOMALY STRENGTH

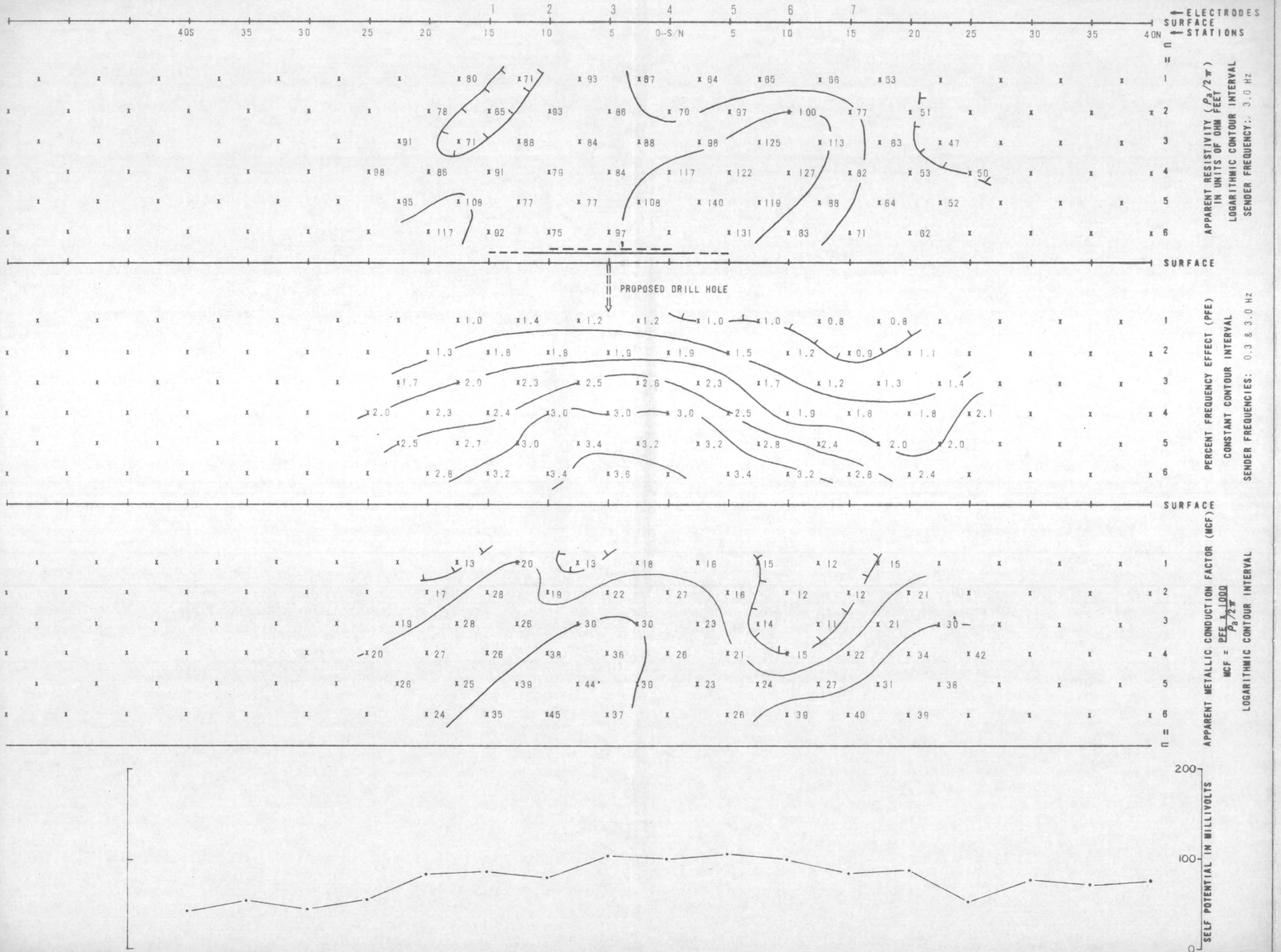


DIPOLE-DIPOLE ELECTRODE ARRAY



DATE
JANUARY 1974

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

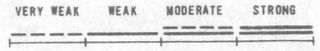


896-74

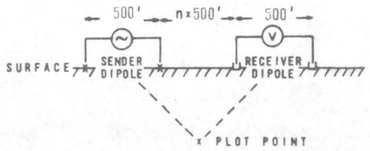
LINE NO. 86W
SPREAD(S) 2
BEARING N-S

INDUCED POLARIZATION TRAVERSE SECTIONAL DATA SHEET of PINAL CLAIM GROUP for CUTLASS EXPLORATION & DEVELOPMENT

RELATIVE ANOMALY STRENGTH

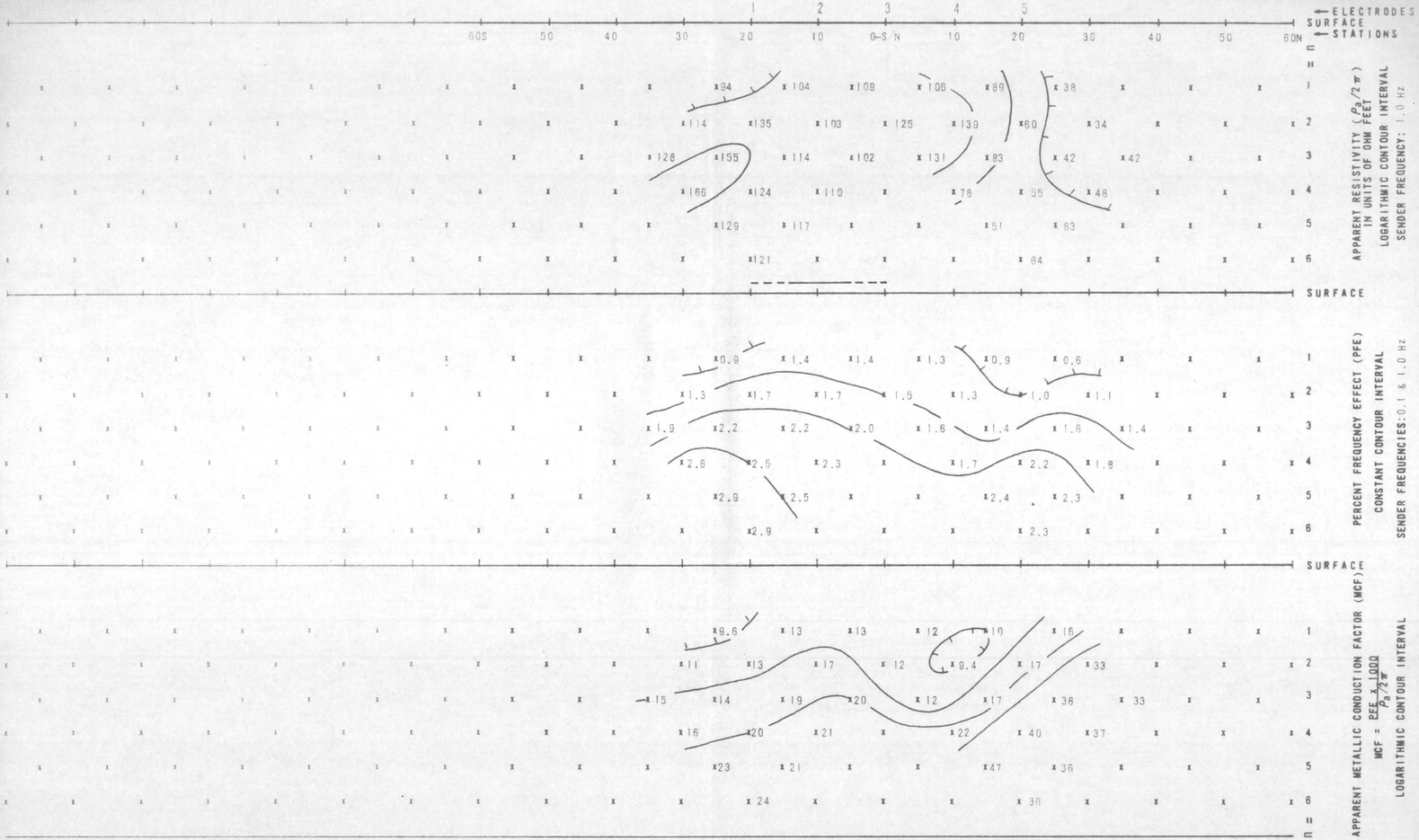


DIPOLE-DIPOLE ELECTRODE ARRAY



DATE
JANUARY 1974

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

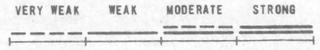


SEE SPREAD 2

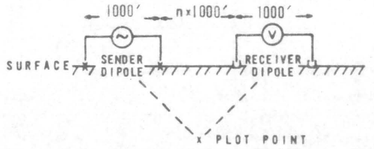
LINE NO.
96W
SPREAD(S)
1
BEARING
N-S

INDUCED POLARIZATION TRAVERSE SECTIONAL DATA SHEET
of
PINAL CLAIM GROUP
for
CUTLASS EXPLORATION & DEVELOPMENT

RELATIVE ANOMALY STRENGTH

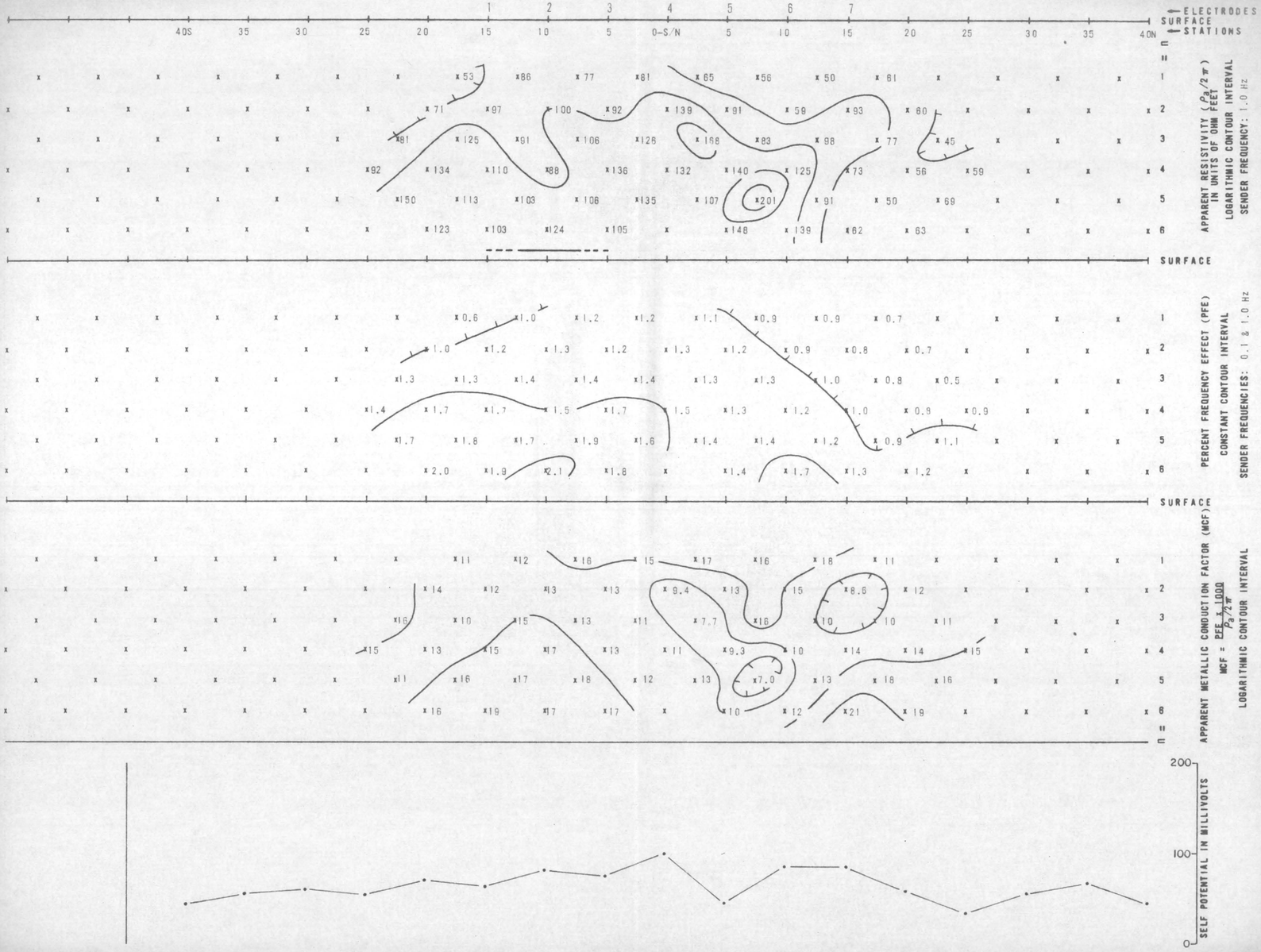


DIPOLE-DIPOLE ELECTRODE ARRAY



DATE
FEBRUARY 1974

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

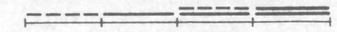


896-74

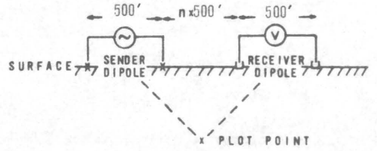
LINE NO. 95W
SPREAD(S) 2
BEARING N/S

INDUCED POLARIZATION TRAVERSE SECTIONAL DATA SHEET of PINAL CLAIM GROUP for CUTLASS EXPLORATION & DEVELOPMENT

RELATIVE ANOMALY STRENGTH

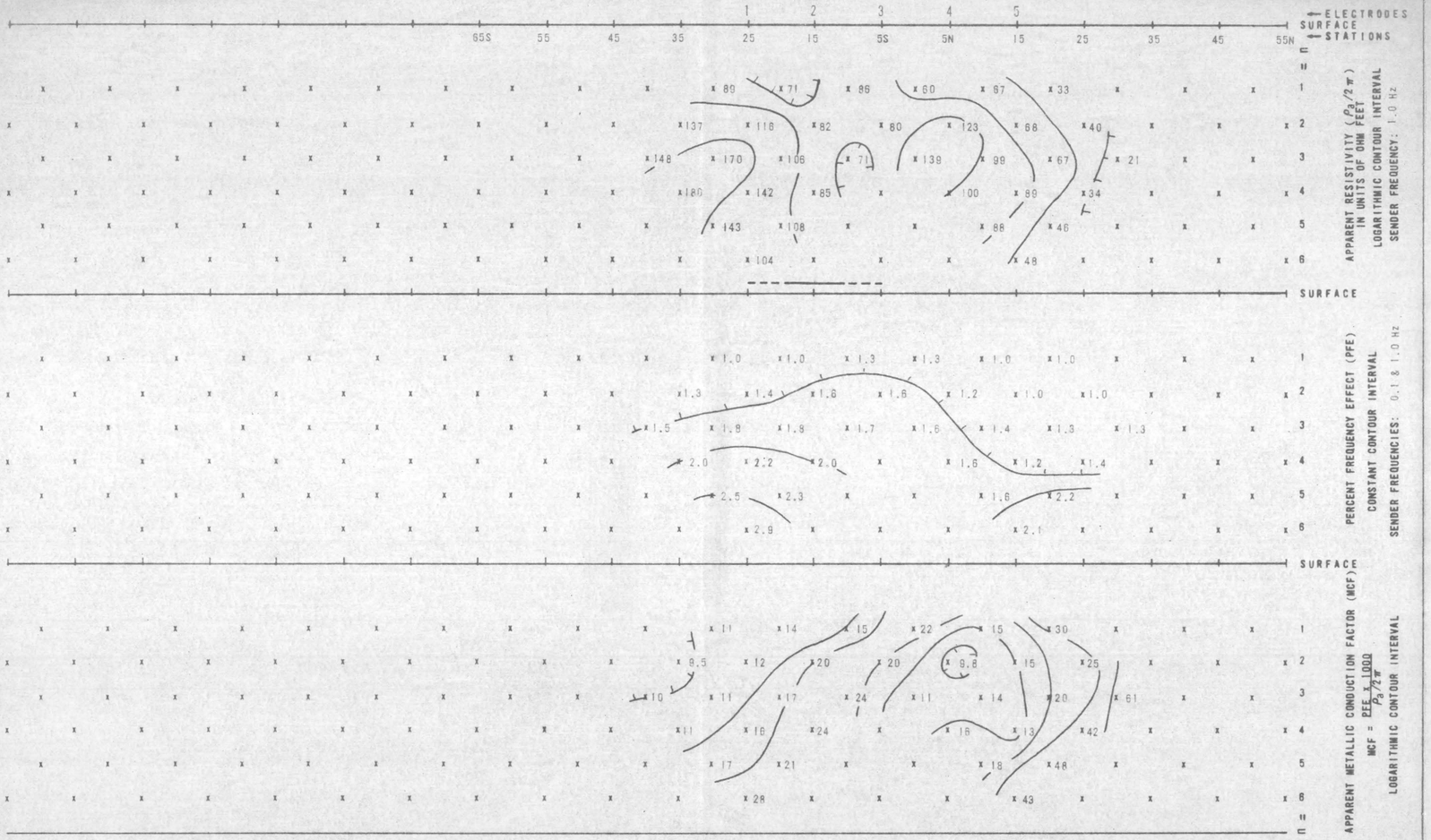


DIPOLE-DIPOLE ELECTRODE ARRAY



DATE
FEBRUARY 1974

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



SEE SPREAD 2

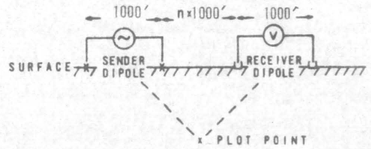
LINE NO.
196W
SPREAD(S)
1
BEARING
N/S

INDUCED POLARIZATION TRAVERSE SECTIONAL DATA SHEET of PINAL CLAIM GROUP for CUTLASS EXPLORATION & DEVELOPMENT

RELATIVE ANOMALY STRENGTH

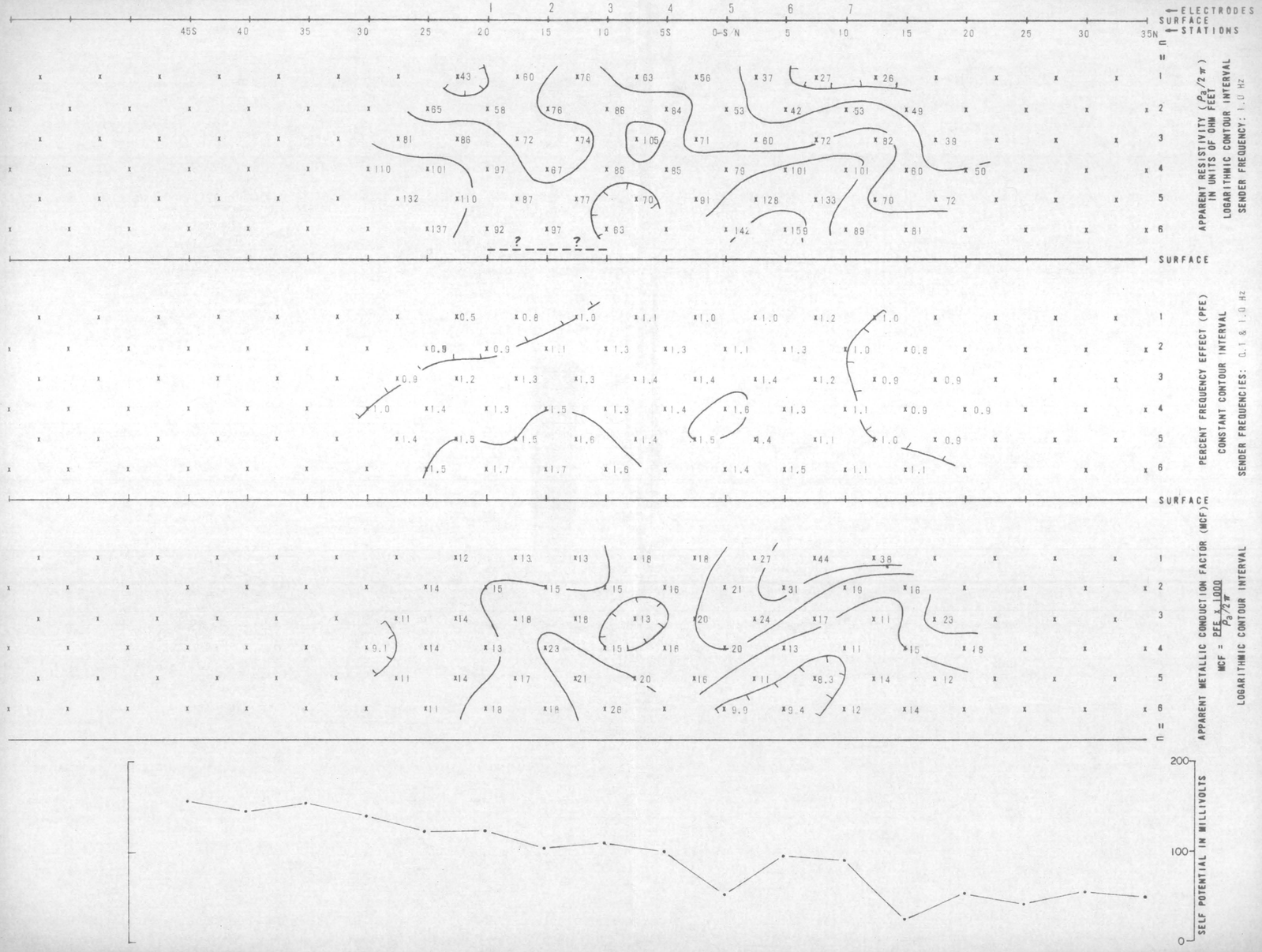
VERY WEAK | WEAK | MODERATE | STRONG

DIPOLE-DIPOLE ELECTRODE ARRAY



DATE
FEBRUARY 1974

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

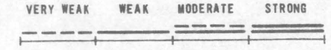


896-74

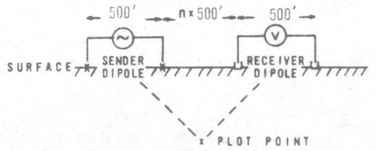
LINE NO. 106W
SPREAD(S) 2
BEARING N-S

INDUCED POLARIZATION TRAVERSE SECTIONAL DATA SHEET of PINAL CLAIM GROUP for CUTLASS EXPLORATION & DEVELOPMENT

RELATIVE ANOMALY STRENGTH

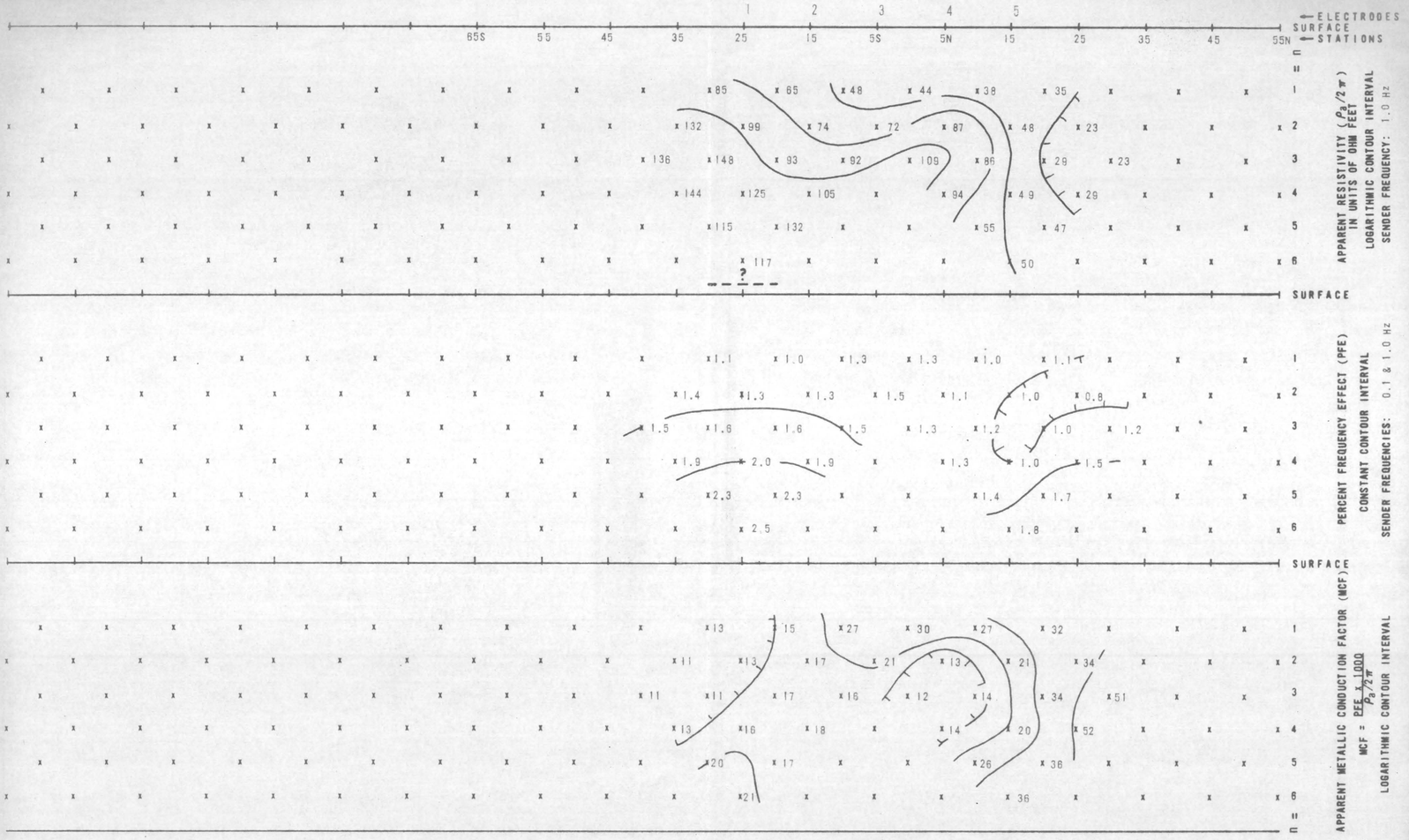


DIPOLE-DIPOLE ELECTRODE ARRAY



DATE
FEBRUARY 1974

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

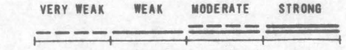


SEE SPREAD 2

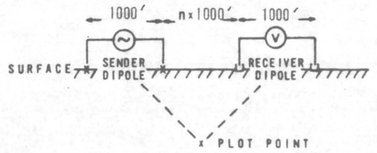
LINE NO.
116W
SPREAD(S)
1
BEARING
N/S

INDUCED POLARIZATION TRAVERSE SECTIONAL DATA SHEET of PINAL CLAIM GROUP for CUTLASS EXPLORATION & DEVELOPMENT

RELATIVE ANOMALY STRENGTH

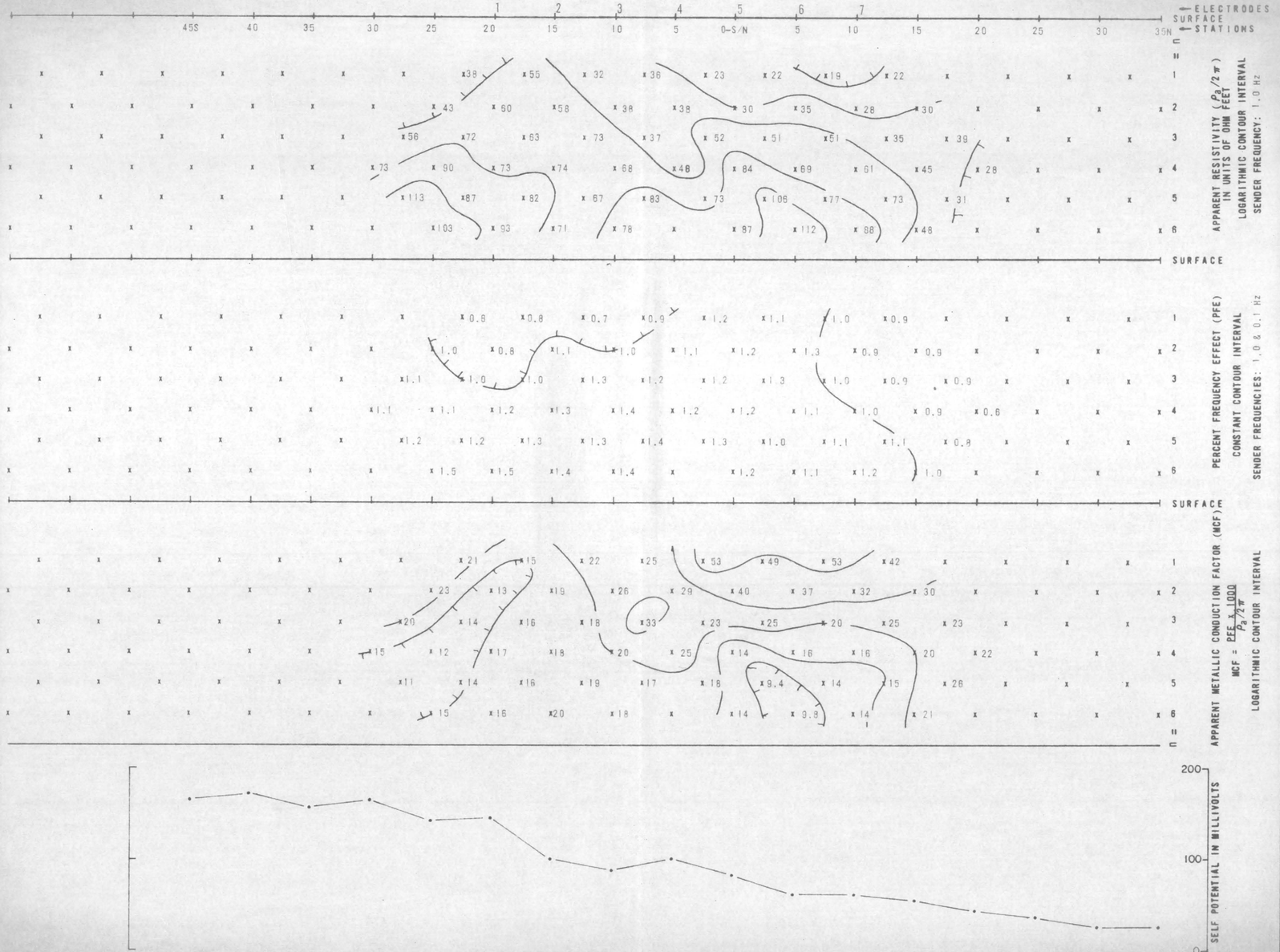


DIPOLE-DIPOLE ELECTRODE ARRAY



DATE
FEBRUARY 1974

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



896-74

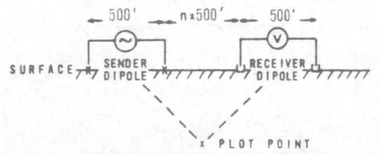
LINE NO. 116W
SPREAD(S) 2
BEARING N-S

INDUCED POLARIZATION TRAVERSE SECTIONAL DATA SHEET of PINAL CLAIM GROUP for CUTLASS EXPLORATION & DEVELOPMENT

RELATIVE ANOMALY STRENGTH

VERY WEAK — WEAK — MODERATE — STRONG

DIPOLE-DIPOLE ELECTRODE ARRAY



DATE
FEBRUARY 1974

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

INDUCED POLARIZATION LOCATION
AND INTERPRETATION PLAN
of
PINAL CLAIM GROUP
PINAL COUNTY, ARIZONA
for
CUTLASS EXPLORATION & DEVELOPMENT
by
HEINRICHS GEOEXPLORATION COMPANY
Job number 886-74 February 1974

THIS SHEET OVERLAYS TOPOGRAPHIC MAP OF PINAL CLAIM GROUP FURNISHED BY CLIENT.

RELATIVE ANOMALY STRENGTH
VERY WEAK
WEAK
MODERATE

SECTION CORNER
PROPOSED DRILL HOLE
ELECTRODE
STATION
L.P. LINE & NUMBER

SCALE - 1" = 400'

FEET 0 200 400 600 800 1000 2000

CLAIM GROUP OUTLINE

GREENBACK SHAFT

PINAL SHAFT

OLD WELL

0-N/S

MODERATE
WEAK
VERY WEAK

SPREAD 1
SPREAD 2
SPREAD 3
SPREAD 4
SPREAD 5
SPREAD 6
SPREAD 7

PDH

65S
60S
55S
65N
60N
55N

M 76W
M 88W
M 96W
M 90W
M 91W

28427
33134
29128
32733
30129
31132

INDUCED POLARIZATION SURVEY

of the

PINAL CLAIM GROUP

PINAL COUNTY, ARIZONA

for

CUTLASS EXPLORATION AND DEVELOPMENT

February 1974

by

HEINRICHS GEOEXPLORATION COMPANY
P.O. Box 5964 Tucson, Arizona

GEOEX Job #896

CONTENTS

INTRODUCTION

At the request of Dr. R. H. Seraphim, Geological Consultant on behalf of Cutlass Exploration and Development, Heinrichs GEOEXploration Company completed an induced polarization (IP) survey on the Pinal Claim Group, Papago Indian Reservation, Pinal County, Arizona. This survey took place during the interim January 23 to February 7, 1974, after initial discussions and a brief field inspection by our Senior Geophysicist, Mr. Paul A. Head, with Dr. Seraphim.

GEOEX personnel involved in the field work were Mr. Russell Jolliffe, Geophysical Supervisor; Mr. Ronald Petersen, Geophysicist and Mr. Thomas Downing, Technical Assistant. Interpretation and report are by Mr. Chris S. Ludwig, Chief Geophysicist assisted by the GEOEX staff.

The purpose of this IP survey was to detect and delineate any significant subsurface sulfide zones in an area showing indications of disseminated copper mineralization. Previous geophysical work in the eastern half of the claim group indicated open-ended IP response to the west which the GEOEX survey extended and closed off.

CONCLUSIONS AND RECOMMENDATIONS

A generally N65°E trending zone of probable sulfide caused anomalous IP response, deepening to the west and about 1000 feet wide, was defined which apparently correlates with the previous IP anomalism; extending it from about 66W to 106W. This extended anomalism is of such size and strength as to be of possible economic significance, particularly if there is a favorable ratio present of ore polarizing minerals to non-ore polarizing minerals.

Drilling is recommended to determine the economic potential of the IP response. Two initial drill sites are suggested to test the strongest portions of the anomaly at depth. (Please refer to the appended "Comments on Drilling IP Targets" for further details on drilling.)

1. A vertical hole collared near 5S on Line 86W should test the IP high within its strongest portion, in a previously undrilled area, and apparently near favorable surface geologic indications. Top of the polarizable source is interpreted as being roughly 1000 feet deep, and the drill hole should be programmed for at least 1500 feet total depth to obtain a representative intersection of the causative subsurface source material.

2. A vertical hole is suggested near 0-N/S on Line 76W to test similar, somewhat shallower IP response than on Line 86W. This target is nearer to previous deep drilling, which was apparently only marginally interesting, and is therefore given a lower priority than the 86W target. Depth to the top of the source is estimated at roughly 750 feet, but the drill hole should sample to about 1500 for a proper evaluation.

If this initial drilling gives encouraging results, additional geophysical targets can be selected by reference to the surface projected anomalism on the plan map and its correlation with all other information available. The weaker fringes of IP response should also be given some consideration, particularly if in areas of geochemical or geological interest. In some districts, the weaker IP zones can be of more interest than the stronger zones which may only be reflecting higher pyrite concentrations. In this area, because of the moderate to low strength sulfide concentrations indicated, initial attention has been focused on the strongest response in the hope it would have the highest probability of being economically significant.

The previous geophysical coverage in the east half of the claim group was somewhat randomly situated and internally inconsistent, making it difficult to properly interpret and correlate with the recent coverage. Therefore, additional N-S IP coverage on 500 foot dipole lengths and 1000 foot line separations is recommended east of Line 76W to give a complete and coherent geophysical assessment of the property.

INTERPRETATION

The GEOEX coverage shows an elongate, generally N65°E trending IP anomaly, deepening (and probably weakening) to the southwest, ranging in relative strength from moderate to very weak. The moderate and weak strength response is probably the most significant and defines a zone 500 to 1500 feet in width, and at least 4000 feet long; open-ended to the east. A very weak anomalous fringe adds about 500 feet of width to the zone and at least 1000 feet of strike length to the southwest. Line 116W is considered to delimit the western end of the anomaly at least to the depths searched, i.e., 1500 to 2000 feet below surface.

Depth to the top of the anomaly source is variable and difficult to estimate. Lines 0-N/S and 76W suggest roughly 750 feet to the top. Line 86W suggests about 1000 feet, Line 96W between 1000 and 1500 feet, and Line 106W deeper than 1500 feet to the source. Actually, the top of the source may be a very gradational increase in polarizable content rather than a sharply defined boundary.

Depth extent of the anomaly source is probably to at least 2000 feet below surface in that no decrease is indicated even on the deepest coverage.

The anomaly response pattern is compatible with a fairly steeply dipping, depth extended wide body, having little or no resistivity contrast with its surroundings. The lack of resistivity contrast is somewhat atypical but could be explained, for example, by silicification (generally a high resistivity rock alteration product) counteracting the effect of any conductive polarizable mineralization present.

The cause of the anomalous polarization is likely metallic lustered sulfide mineralization such as pyrite or chalcopyrite, although other metallic lustered non-sulfide minerals, such as certain iron and manganese oxides, or graphite or conceivably even certain clay minerals, could be contributing to the response. In the strongest parts of the anomaly, about 0.5 to 2 percent total sulfide by volume (roughly 1 to 4 percent by weight) is estimated based on the interpreted source geometry and comparison with "typical" disseminated sulfide zones in the southwestern U.S. The weaker fringing response perhaps represents less than 0.5 to 1 percent total sulfide by volume.

These estimated sulfide concentrations are meant only as a crude relative guide and in practice are often found to be at considerable variance with actual sulfide assays. Regardless, the indicated polarizable concentration is high enough that the anomaly could be of economic interest providing the ratio between ore polarizing mineral content (such as chalcopyrite, molybdenite, etc.) and non-ore polarizing mineral content (such as pyrite, magnetite, etc.) is reasonably high.

Outside the anomaly, most of the area shows a rather low, uniform, background IP response. The resistivity shows little correlation with the IP. Lower resistivities are noted on the north halves of the N-S lines and near surface along most of Line 116W and are probably caused by a relatively conductive veneer of alluvium overlying the more resistive bedrock.

The self potentials are quite uniform over the area surveyed and show no obvious correlation with the IP. Lack of self potential lows implies a lack of actively oxidizing, relatively interconnected, conductive sulfides within several hundred feet of the surface. This is not in conflict with the IP which suggests a rather disseminated, not particularly conductive, deep sulfide zone in this case.

PROCEDURES

A GEOEX MK-4 multifrequency IP system was employed to obtain this coverage with sending frequency pairs of 0.3 vs. 3.0 hz and 0.1 vs. 1.0 hz. The standard collinear dipole-dipole array was used with both 500 and 1000 foot dipole lengths on all lines except Line 0-N/S which had 500 foot dipoles only. Data was obtained with "spreads" of five sending electrodes for the 1000 foot dipole coverage and seven sending electrodes for the 500 foot dipole coverage.

Sending-receiving dipole separations range from 1 to 6 dipole lengths on all lines and, typically, this should give resolvable depth penetration within the zone ranging from about 300 feet to as much as 2000 feet below surface for the 1000 foot dipole coverage. The 500 foot dipole lines would double the resolution but would penetrate only about one half as deep as the 1000 foot dipole lines.

A total of 20.5 line miles of IP coverage was obtained on this survey, of which 12.3 miles is "subsurface" plotted data.

The IP data are presented on "sectional" data sheets, one for each spread, showing, from top to bottom; resistivity, percent frequency effect (PFE), and metallic conduction factor (MCF) contoured in "sectional" form. The self potential readings taken in conjunction with the IP readings are shown at the bottom of the 500 foot dipole sectional sheets in profile form. An "Induced Polarization Location and Interpretation Plan" is also included showing the surface projected plan interpretation at a scale of 1" = 400' to overlay the Cutlass geology and claim base maps.

Respectfully submitted,

Heinrichs GEOEXploration Company

Chris S. Ludwig
Chief Geophysicist

Approved by:

Walter E. Heinrichs, Jr.
President

COMMENTS ON DRILLING I.P. TARGETS

To maximize the probability that a recommended drill hole will intersect the source of an induced polarization anomaly, the following points should be considered:

1. The anomaly has been caused by some physical property, hopefully a polarizable body containing economically interesting metallic mineralization, and this property should be determined before abandoning the anomaly.

2. Location of drill holes should be made relative to the actual sending and receiving electrode positions as they exist on the ground.

3. Due to inherent limitations in the I.P. method, depth interpretations are only approximate and the determination of dip is severely limited, particularly for angles greater than 45°. Also, targets can generally be laterally resolved no finer than the station spacing (dipole length). Because of these limitations, targets less than one dipole spacing in width, particularly when steeply dipping or deeper than the dipole length, may be difficult to intersect. In these cases, several drill holes in a fence line should be considered. For the steeply dipping cases, angle drilling may also prove advantageous, mainly where the direction of dip can be geologically inferred and the drill hole oriented such that an optimum intersection of the zone of interest is obtained.

4. An observed anomaly can be the effect of a polarizable body laterally offset to the side of a line and therefore, if practical, drilling should be confined to those portions of the anomalous zones well defined by several lines. Also, it should be noted that a single line cannot define the strike direction of an elongate anomalous zone - another reason for utilizing several parallel lines.

5. Logging of the drill core must be done with special care to note the quantity of <u>all</u> possible polarizable material such as pyrite, graphite, magnetite, manganese oxides and clay minerals as well as the polarizable ore minerals. The anomalous source could conceivably be overlooked if the core is not carefully logged.

6. Typical sections of core representing the gross physical properties of material encountered in the drilling should be tested in the laboratory for their I.P. parameters, if there is some doubt about confirmation of the anomalous source.

PINAL CLAIM GROUP BOUNDARY
OXIDE DEPOSIT
HINSHAW PEAK
PINAL SHAFT
GREENBACK SHAFT
AIRSTRIP
Line O-N/S
Very Weak
Weak
Moderate
NORTH
1" = 400'
RAS
S.C. of R.A.S.
for 500' dipoles
I.P. Line
PDH
spread center
Red 500' dipoles electrode
Green 1000' dipole electrode

Job # 896

L-48W

L-51W

L-53W

L-43W

L-74 50N

L-74 50N

L-D 7W

L-8 7W

L-C 8

CDH No 4

CDH No 3

CDH No 2

CDH No 1

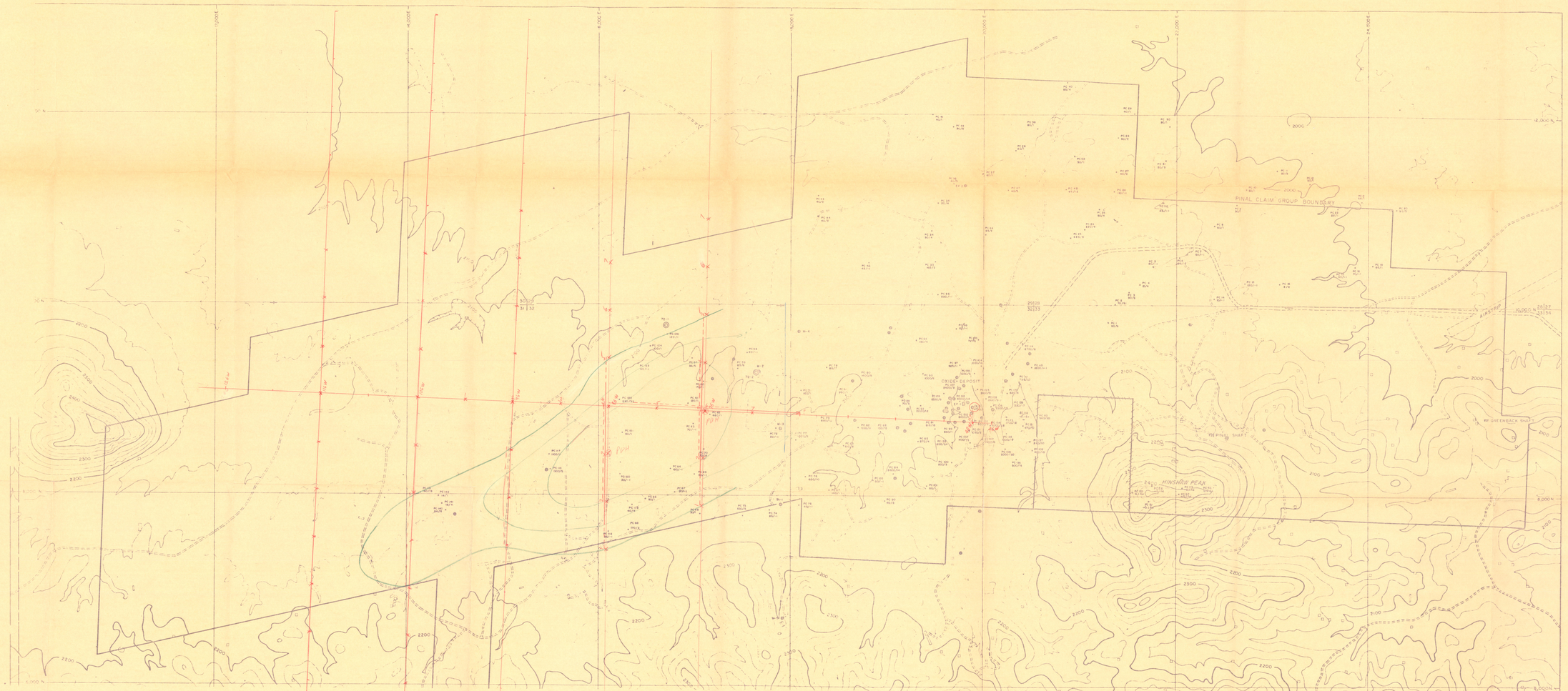
14" CDH

WELL

A, B, C, & D are old lines

Mc Phee
9/20/66

Sib #896


PINAL CLAIM GROUP BOUNDARY
OXIDE DEPOSIT
HINSHAW PEAK
YE PINAL SHAFT
NORTH

Job #895

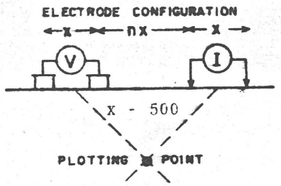
DWG. NO.-I.P.-2533-6

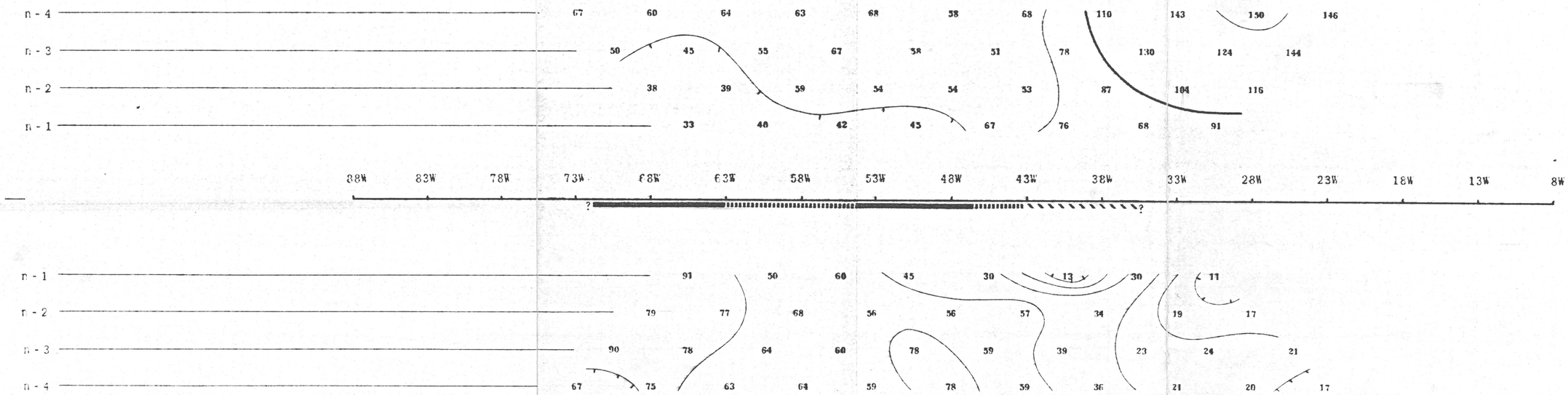
McPHAR GEOPHYSICS LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

ELECTRODE CONFIGURATION





Pa/2π
(OHM FEET)

(M.F.) a

LINE NO.- 7+50N

EL PASO NATURAL GAS COMPANY

PINAL COPPER CORPORATION PROPERTY, PINAL CTY., ARIZONA, U.S.A.

Scale-One inch = 500 Feet

NOTE LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE ———

PROBABLE ·····

POSSIBLE / / / / / / /

FREQUENCY 0.03 & 1.25 CPS

DATE SURVEYED SEPT. 1966

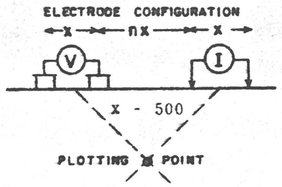
APPROVED

DATE 10/20/66

McPHAR GEOPHYSICS LIMITED

DWG. NO.-I.P.-2533-7

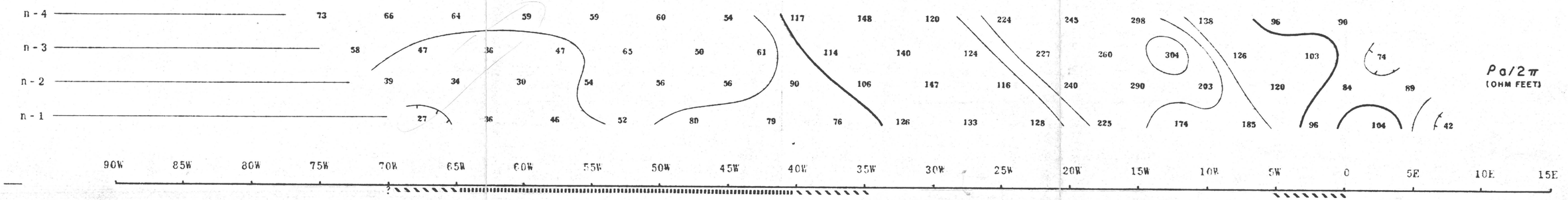
ELECTRODE CONFIGURATION

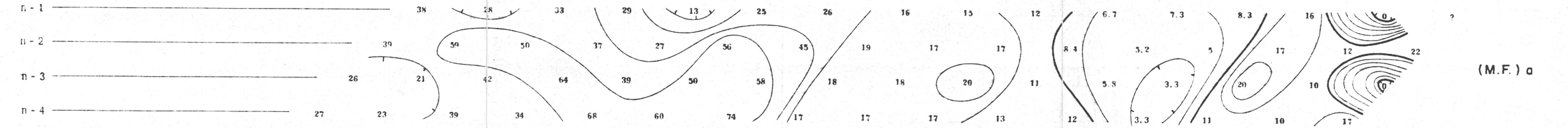


McPHAR GEOPHYSICS LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100





EL PASO NATURAL GAS COMPANY

PINAL COPPER CORPORATION PROPERTY, PINAL CTY., ARIZONA, U.S.A.

Scale-One inch= 500 Feet

NOTE LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE ——————

PROBABLE ··········

POSSIBLE / / / / / / /

FREQUENCY 0.05 & 1.25 C.P.S.

DATE SURVEYED SEPT. 1966

APPROVED A

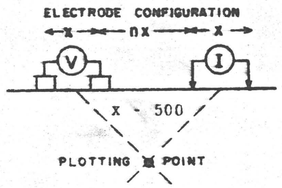
DATE 9/20/66

McPHAR GEOPHYSICS LIMITED

LINE NO.-O

DWG. NO.-I.P.-2533-5

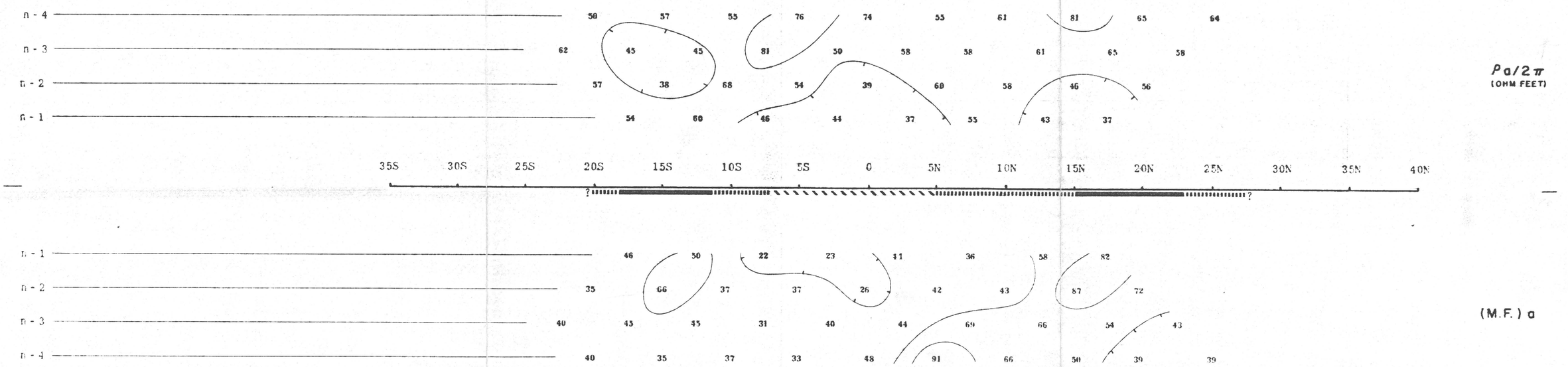
ELECTRODE CONFIGURATION



McPHAR GEOPHYSICS LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100



Pa/2π
(OHM FEET)

(M.F.) a

LINE NO-53W

EL PASO NATURAL GAS COMPANY

PINAL COPPER CORPORATION PROPERTY, PINAL CTY., ARIZONA, U.S.A.

Scale—One inch = 500 Feet

NOTE LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE ——————

PROBABLE ▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪

POSSIBLE / / / / / / / / /

FREQUENCY 0.05 & 0.25 C.P.S.

DATE SURVEYED SEPT. 1966

APPROVED PA

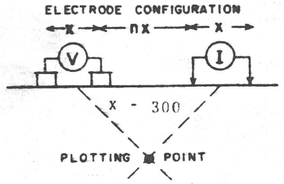
DATE 9/30/66

McPHAR GEOPHYSICS LIMITED

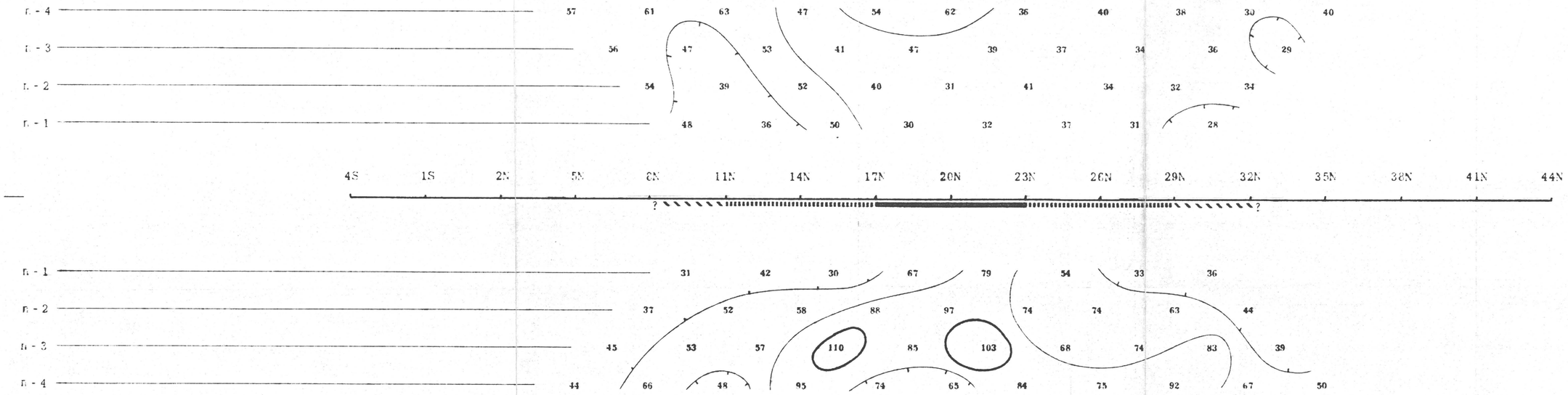
DWG. NO.-I.P.-2533-4

McPHAR GEOPHYSICS LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY



NOTE CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100



Pa/2π
(OHM FEET)

(M.F.) a

LINE NO-5 W

EL PASO NATURAL GAS COMPANY

PINAL COPPER CORPORATION PROPERTY, PINAL CTY., ARIZONA, U.S.A.

Scale-One inch= 300 Feet

NOTE LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE
PROBABLE
POSSIBLE

FREQUENCY 0.05 & 1.25 C.P.S.

DATE SURVEYED SEPT. 1968

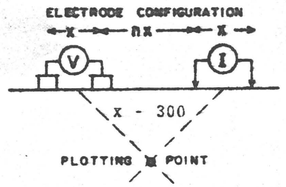
APPROVED

DATE 9/30/68

McPHAR GEOPHYSICS LIMITED

DWG. NO.-I.P.-2533-3

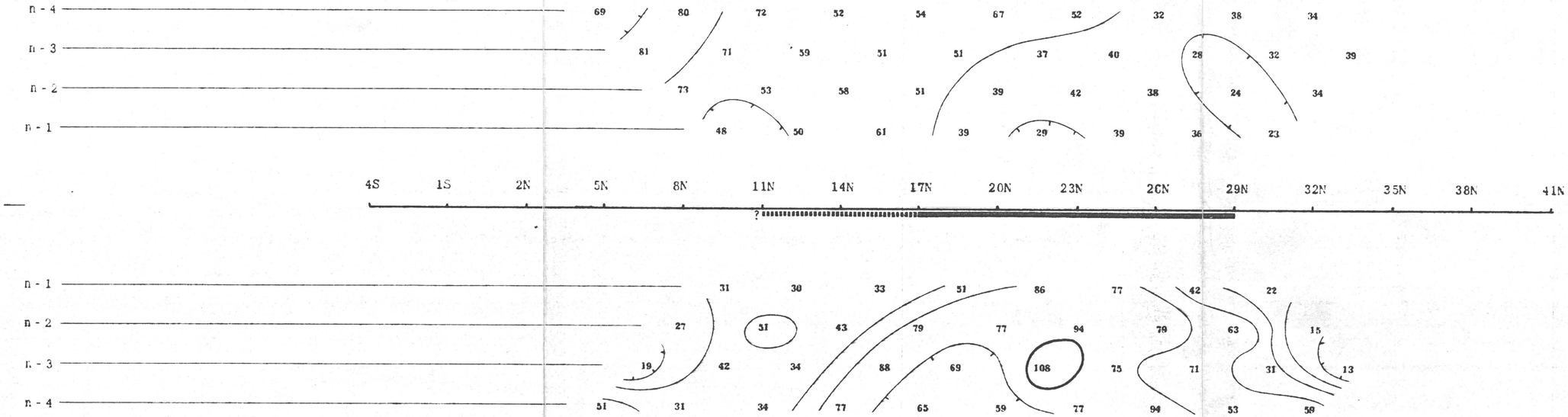
ELECTRODE CONFIGURATION



McPHAR GEOPHYSICS LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100



Pa/2π
(OHM FEET)

(M.F.) a

LINE NO-48W

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE
PROBABLE
POSSIBLE

EL PASO NATURAL GAS COMPANY

PINAL COPPER CORPORATION PROPERTY, PINAL CTY., ARIZONA, U.S.A.

Scale—One inch = 300 Feet

NOTE LOGARITHMIC CONTOUR INTERVAL

FREQUENCY 0.05 & 0.25 C.P.S.

DATE SURVEYED SEPT. 1965

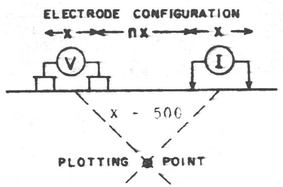
APPROVED

DATE 9/20/66

McPHAR GEOPHYSICS LIMITED

DWG. NO.-I.P.-2533-2

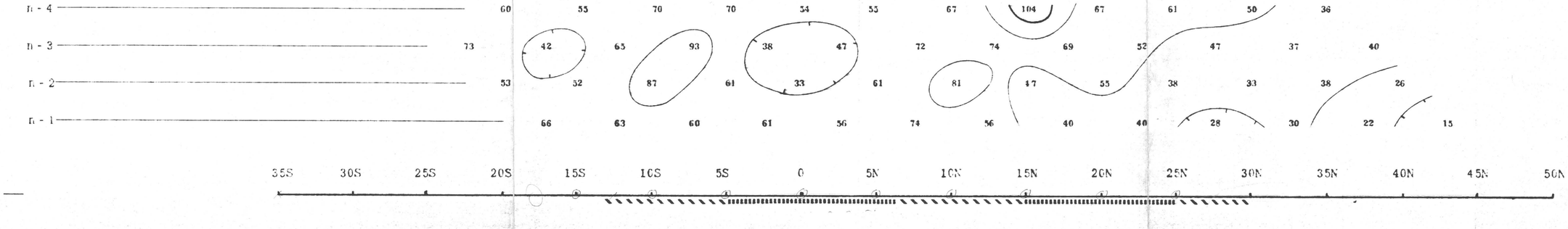
ELECTRODE CONFIGURATION



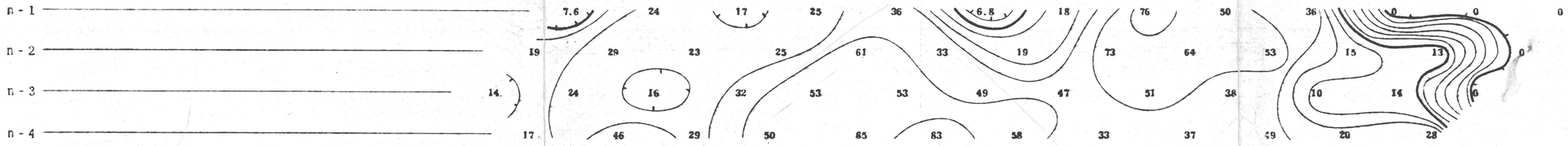
McPHAR GEOPHYSICS LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100



$Pa/2\pi$
(OHM FEET)



(M.F.) a

LINE NO-48 W

EL PASO NATURAL GAS COMPANY

PINAL COPPER CORPORATION PROPERTY, PINAL CTY., ARIZONA, U.S.A.

Scale—One inch = 500 Feet

NOTE LOGARITHMIC CONTOUR INTERVAL

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE
PROBABLE
POSSIBLE

FREQUENCY 0.05 & 1.25 C.P.S.

DATE SURVEYED SEPT. 1960

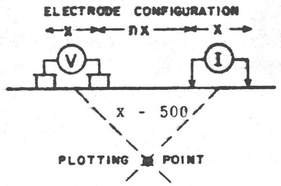
APPROVED

DATE 9/20/61

McPHAR GEOPHYSICS LIMITED

DWG. NO.-I.P.-2533-1

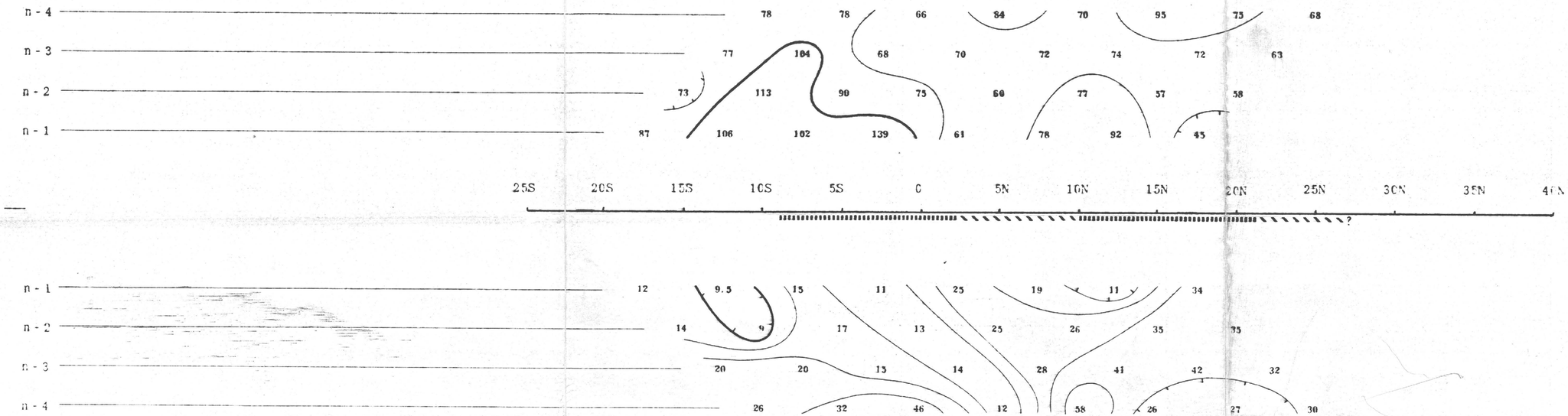
ELECTRODE CONFIGURATION



McPHAR GEOPHYSICS LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100



Pa/2π
(OHM FEET)

(M.F.)a

LINE NO-43W

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE ——————

PROBABLE .....

POSSIBLE / / / / / / / /

EL PASO NATURAL GAS COMPANY

PINAL COPPER CORPORATION PROPERTY, PINAL CTY., ARIZONA, U.S.A.

Scale—One inch = 500 Feet

NOTE LOGARITHMIC CONTOUR INTERVAL

FREQUENCY .025 & .125 C.P.S.

DATE SURVEYED SEPT. 1966

APPROVED

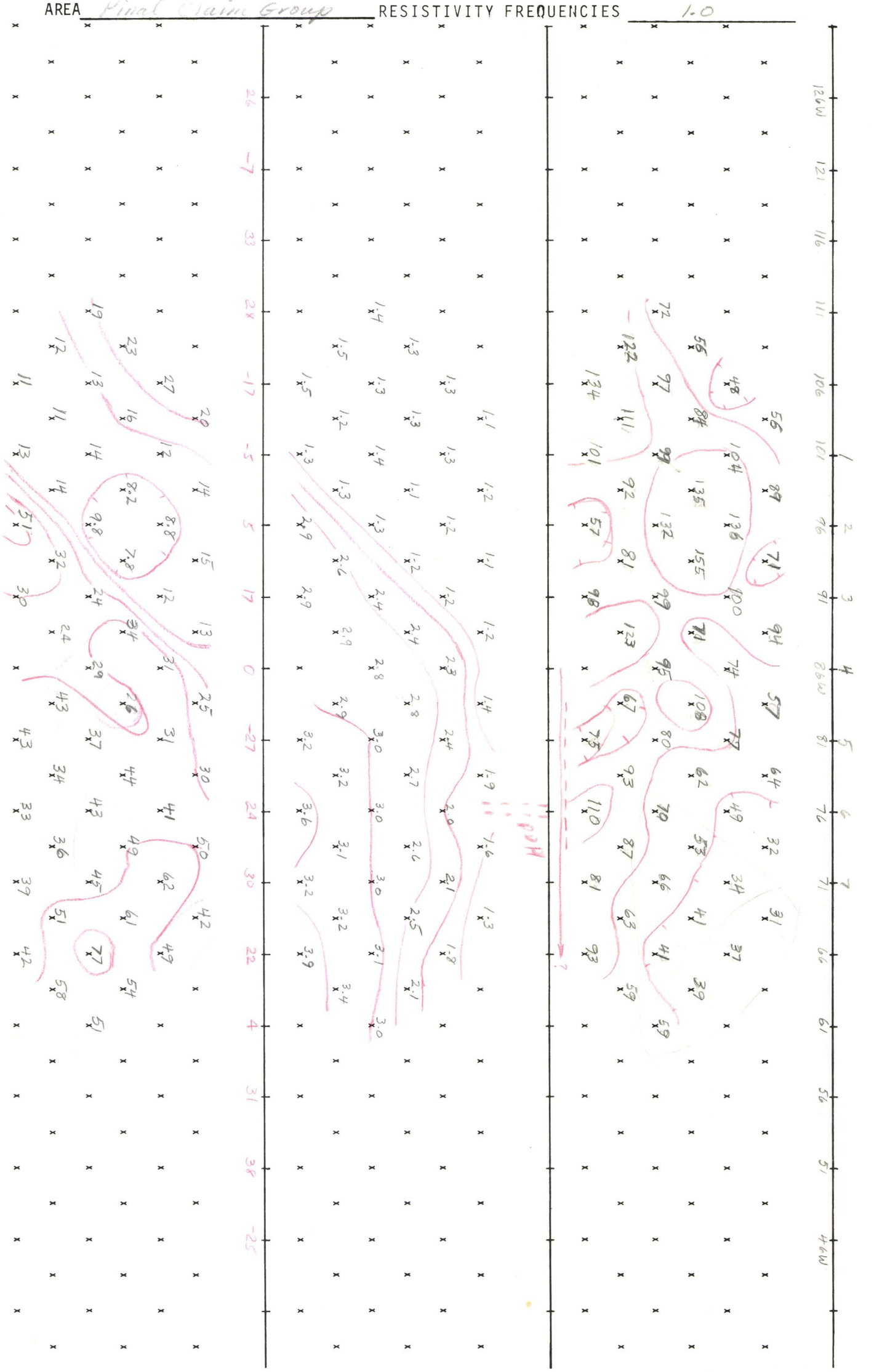
DATE

McPHAR GEOPHYSICS LIMITED

JOB# 896 LINE# 0-[illegible] 1 a = 500' BEARING S87½°W-N87½°E

CLIENT Cutlass DATE JAN 74 FREQUENCIES 1.0 & 0.1 Hz

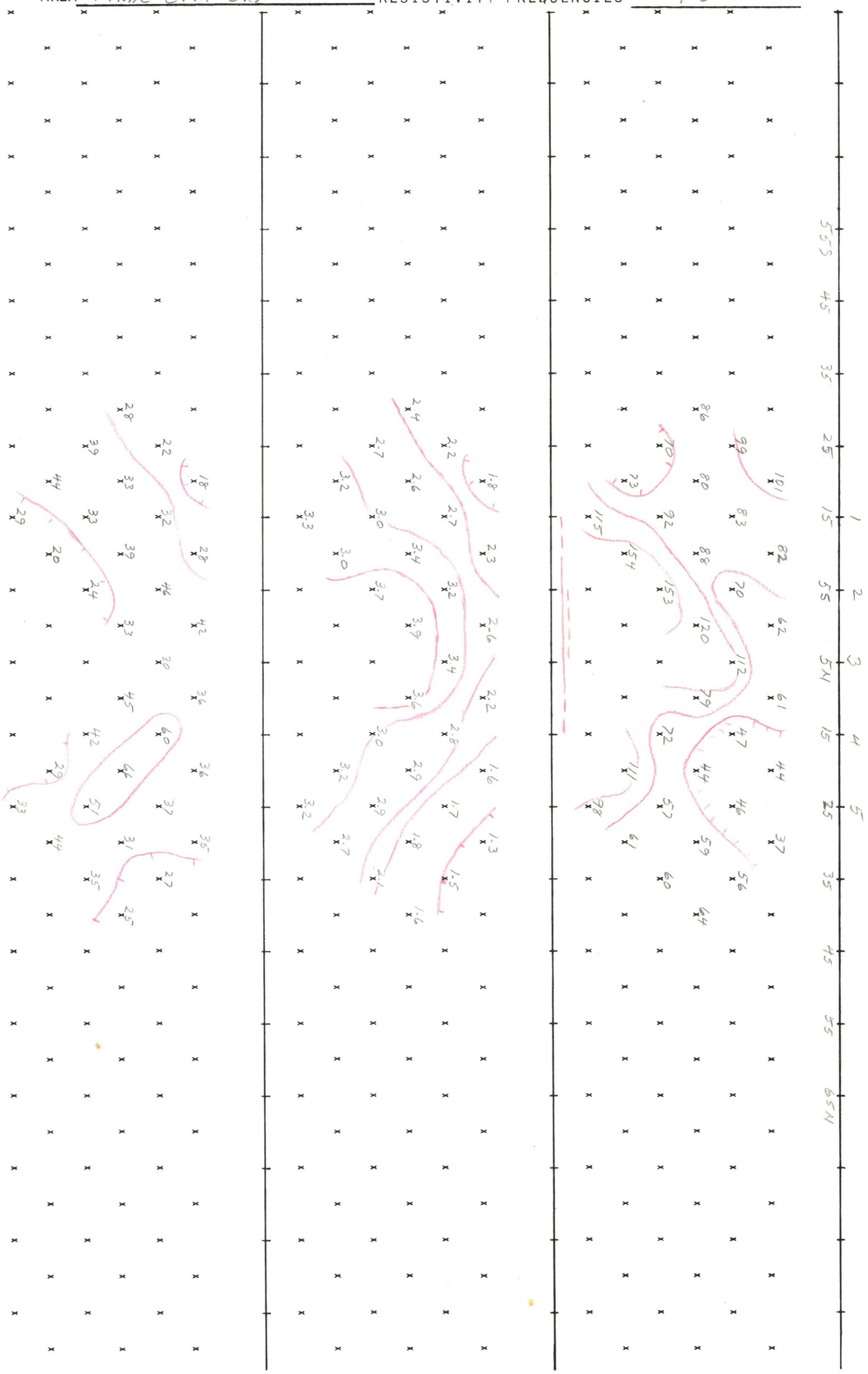
AREA Mineral Claim Group RESISTIVITY FREQUENCIES 1.0



JOB# 896 LINE# 76 1 a = 1000' BEARING N-S

CLIENT Cyprus DATE JAN 74 FREQUENCIES 1-0 & 0.1 Hz

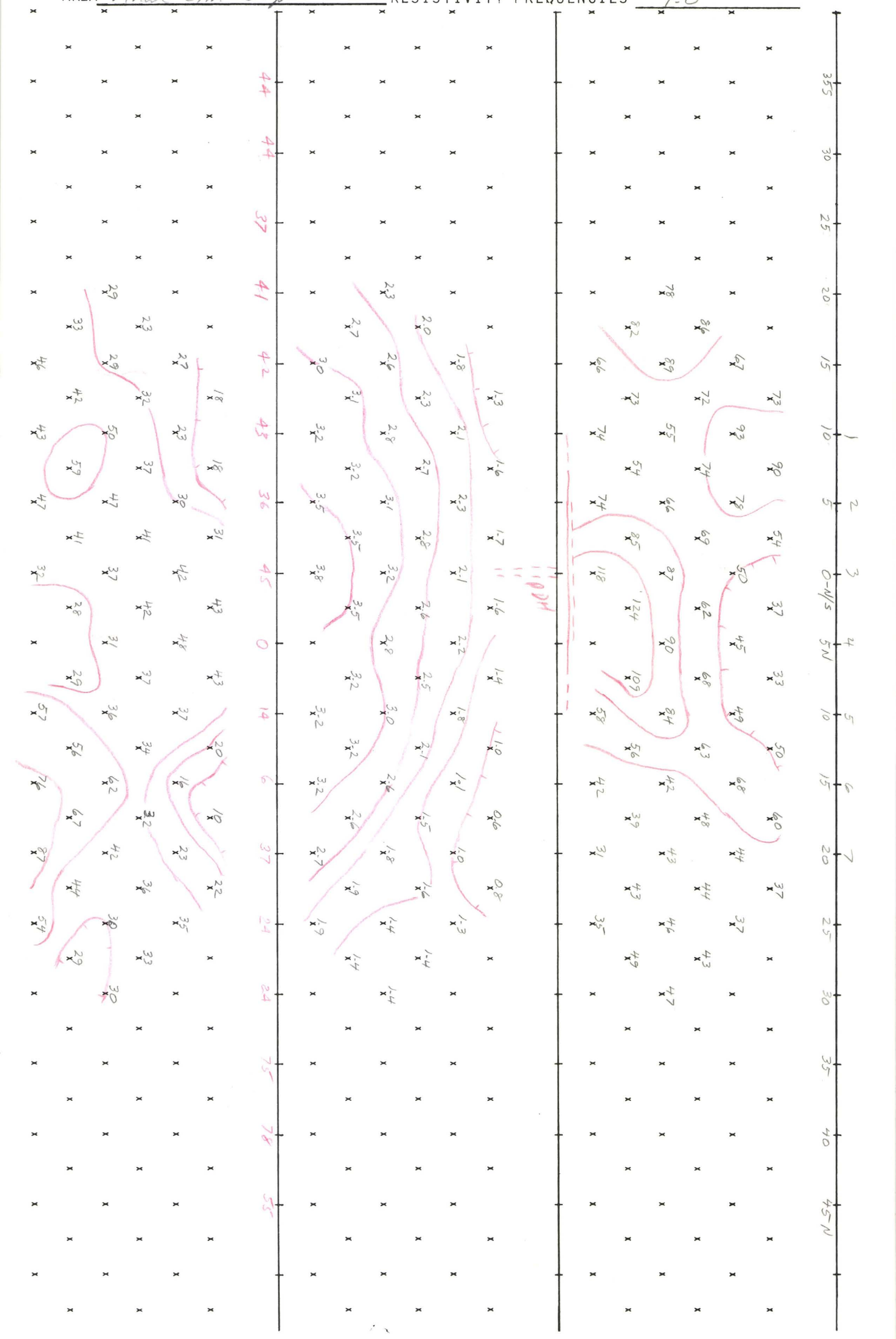
AREA PINAL CLM GRP RESISTIVITY FREQUENCIES 1-0



JOB# 896 LINE# 76 2 a = 500' BEARING N-S

CLIENT Cutlass DATE JAN 74 FREQUENCIES 1.0 & 0.1 Hz

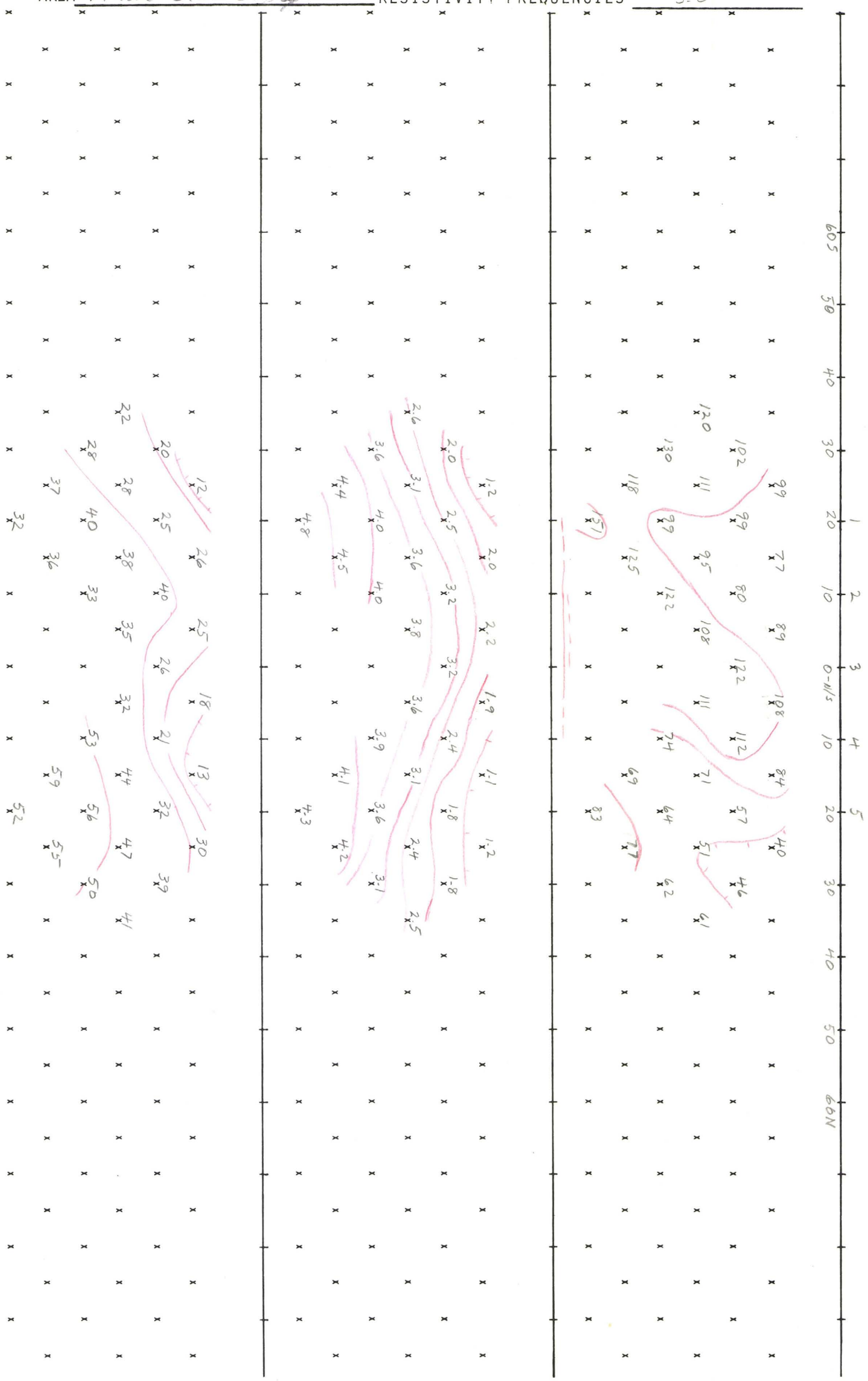
AREA Pinal Clm Grp RESISTIVITY FREQUENCIES 1.0



JOB# 896 LINE# 86 1 a = 1000' BEARING N-S

CLIENT Cutless Exploration & Development DATE JAN 74 FREQUENCIES 3.0 & 0.3 Hz

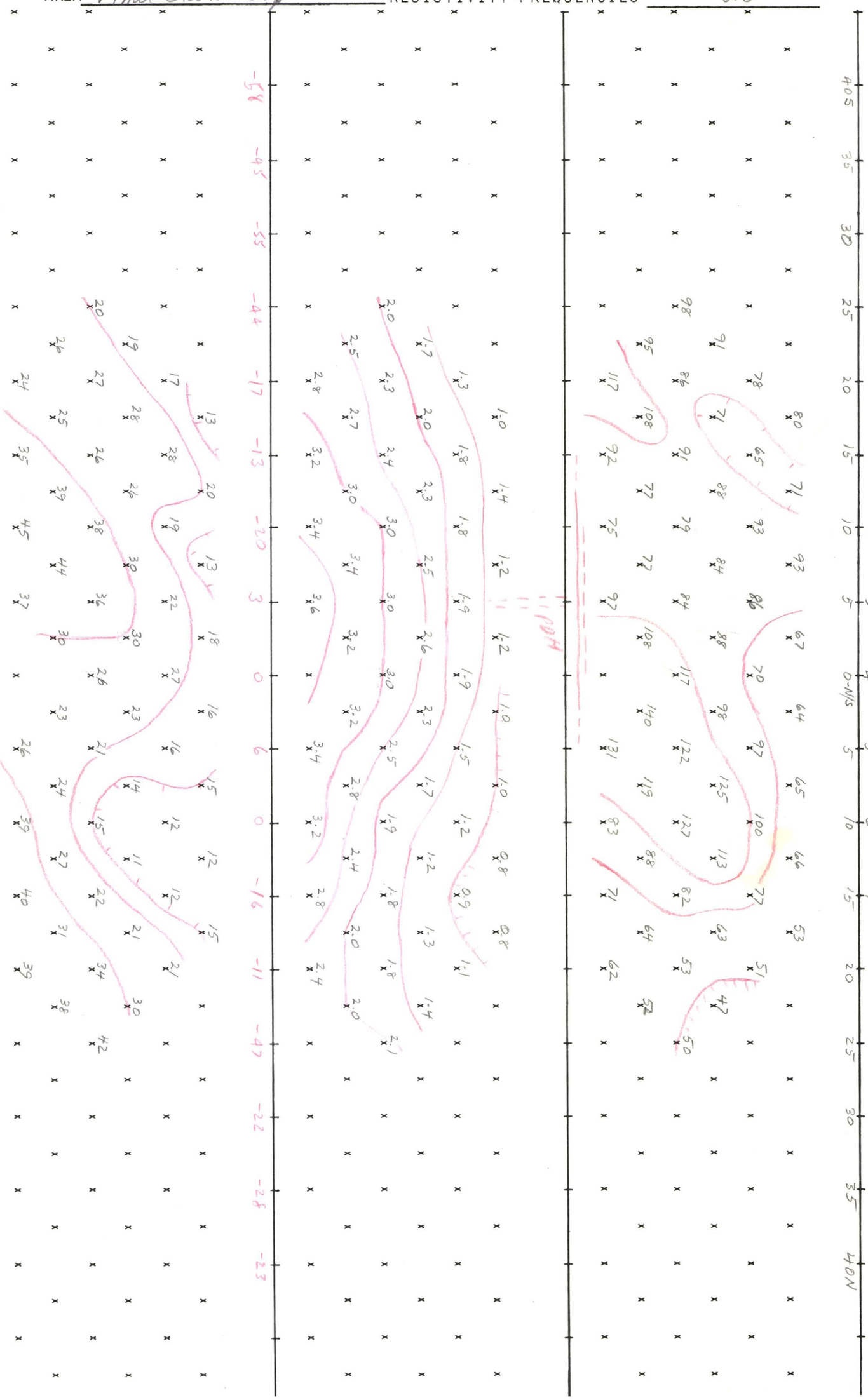
AREA Pinal Clm Group RESISTIVITY FREQUENCIES 3.0



JOB# 896 LINE# 86 X-28 a = 500' BEARING N - S

CLIENT Cutlass DATE JAN 74 FREQUENCIES 3.0 & 0-3 Hz

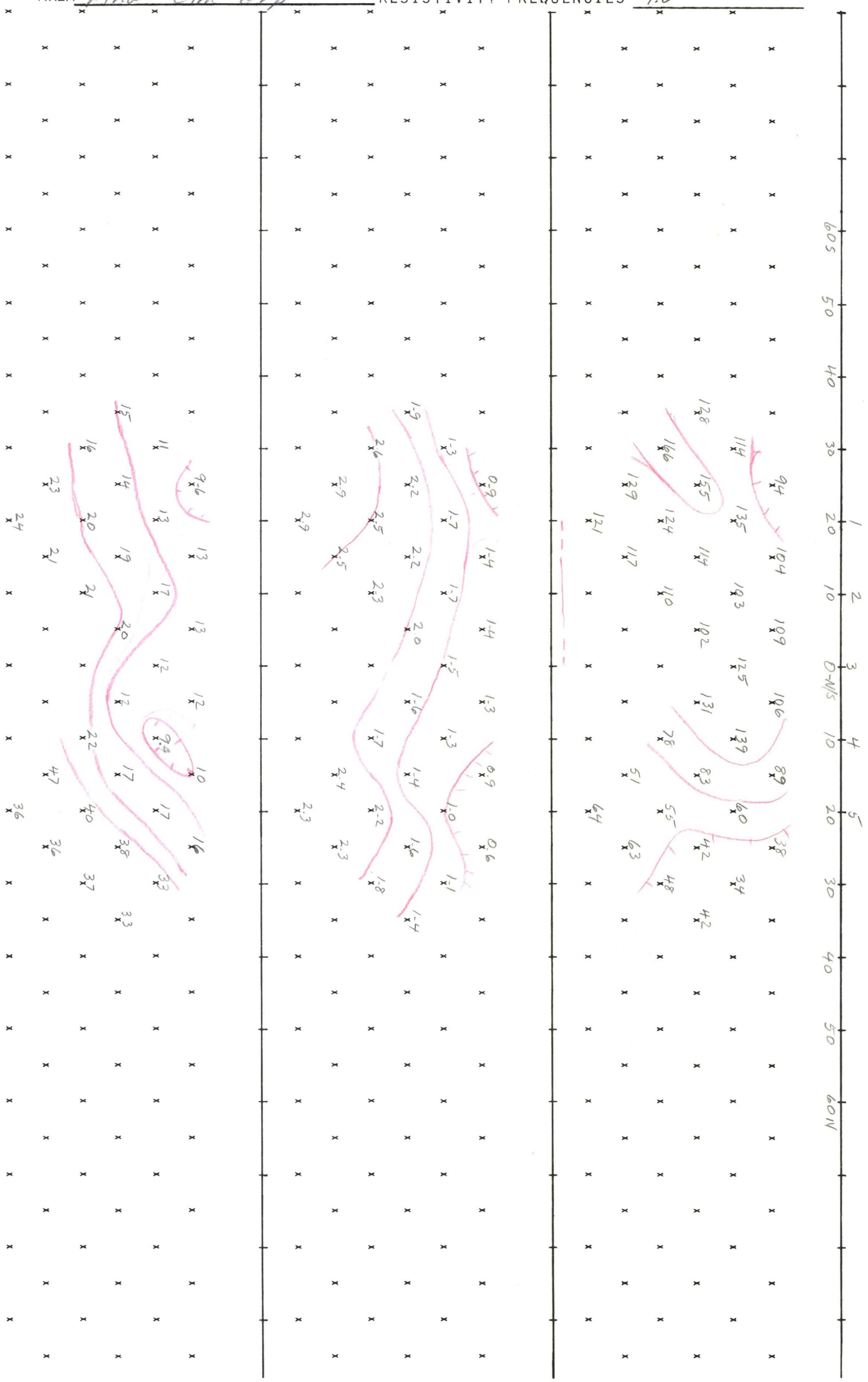
AREA Pinal Claim Grp RESISTIVITY FREQUENCIES 3.0



JOB# 896 LINE# 96[illegible] SP 1 a = 1000' BEARING N-S

CLIENT Cutlass DATE JAN74 FREQUENCIES 1.0 & 0.1 Hz

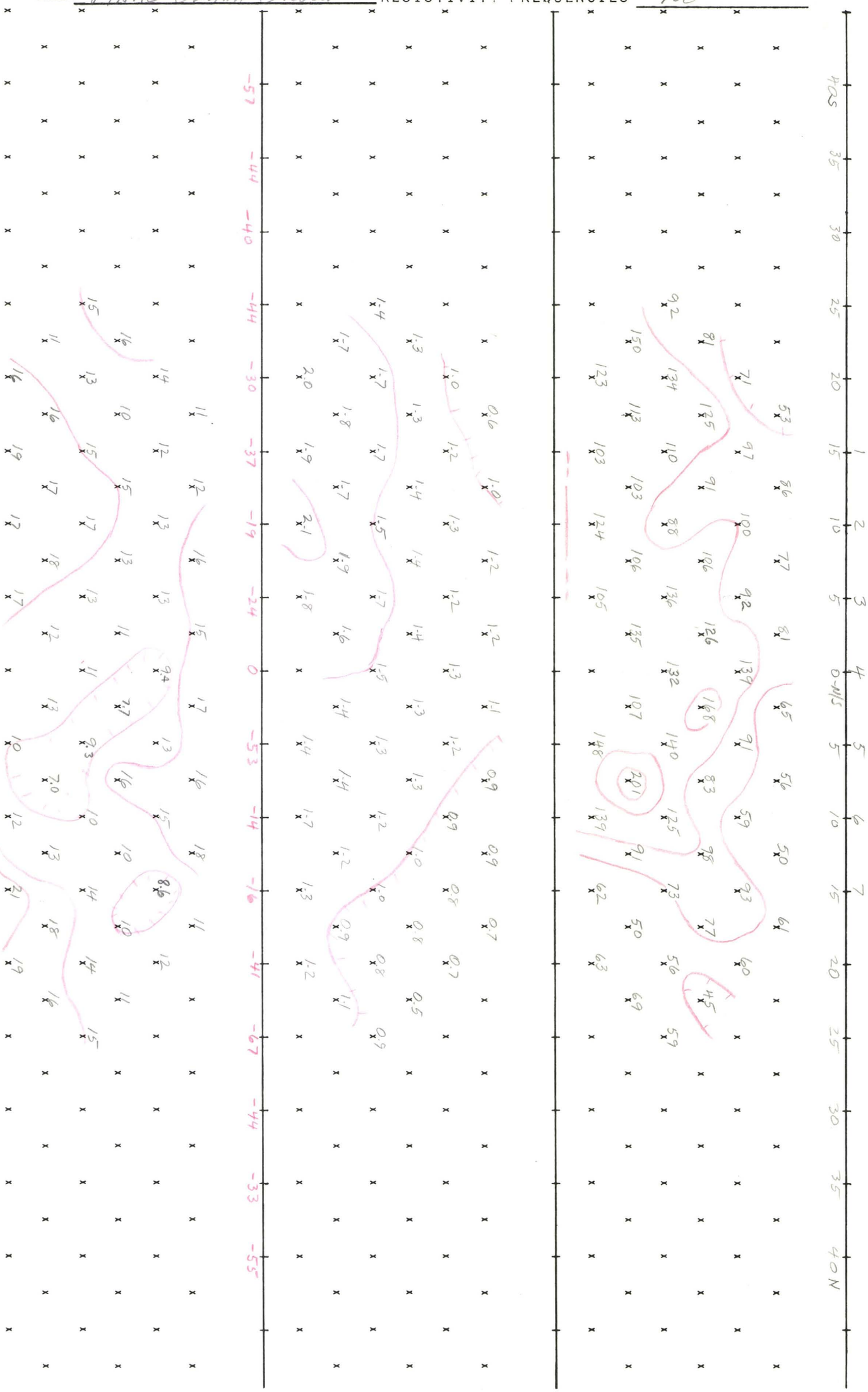
AREA Pinal Clm Grp RESISTIVITY FREQUENCIES 1.0



JOB# 896 LINE# 96 SP 2 a = 500' BEARING N-S

CLIENT Cantex DATE JAN 74 FREQUENCIES 1.0 & 0.1 Hz

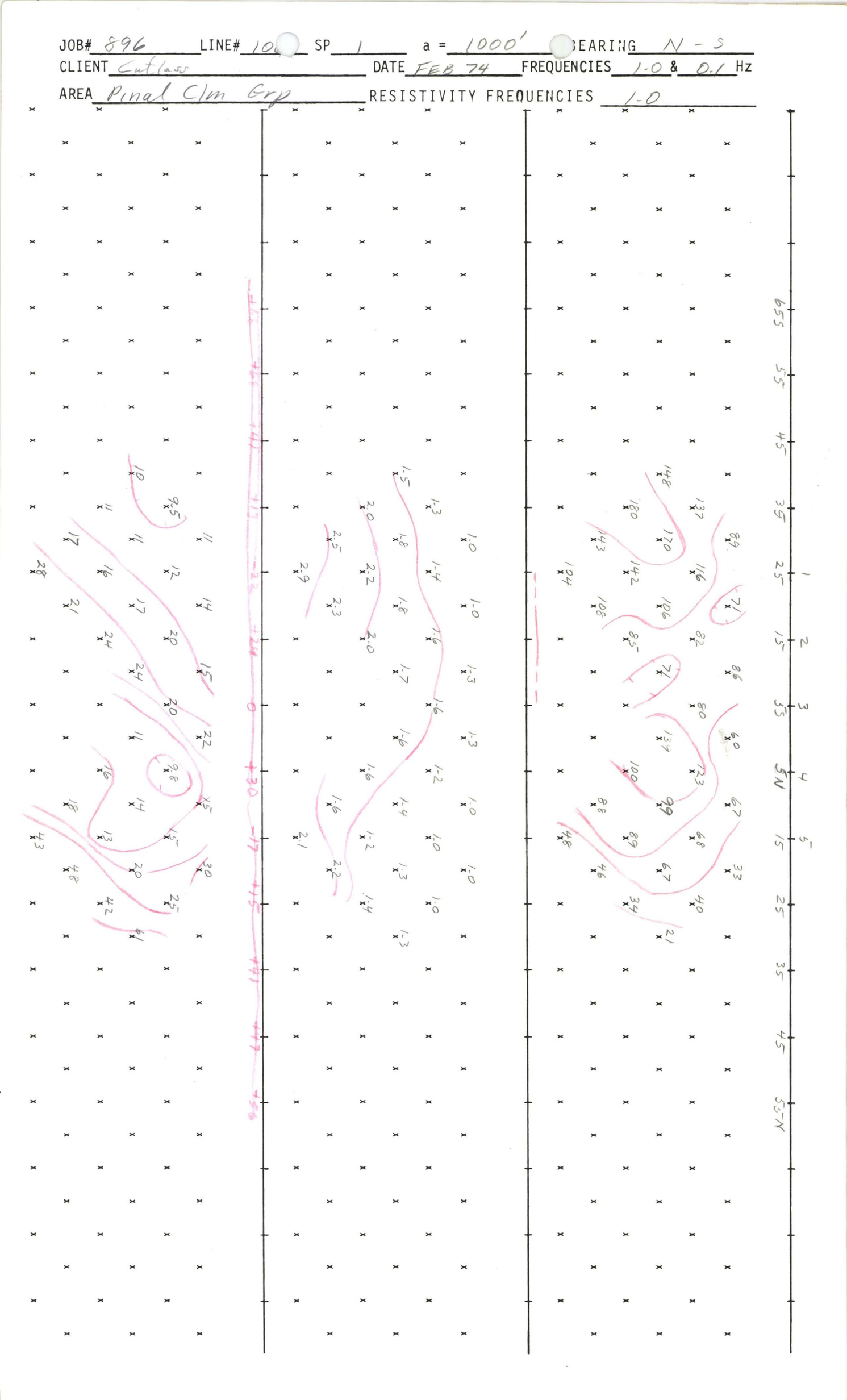
AREA FINAL CLAIM GROUP RESISTIVITY FREQUENCIES 1.0



JOB# 896 LINE# 10[illegible] SP 1 a = 1000' BEARING N - S

CLIENT Cutlass DATE FEB 74 FREQUENCIES 1.0 & 0.1 Hz

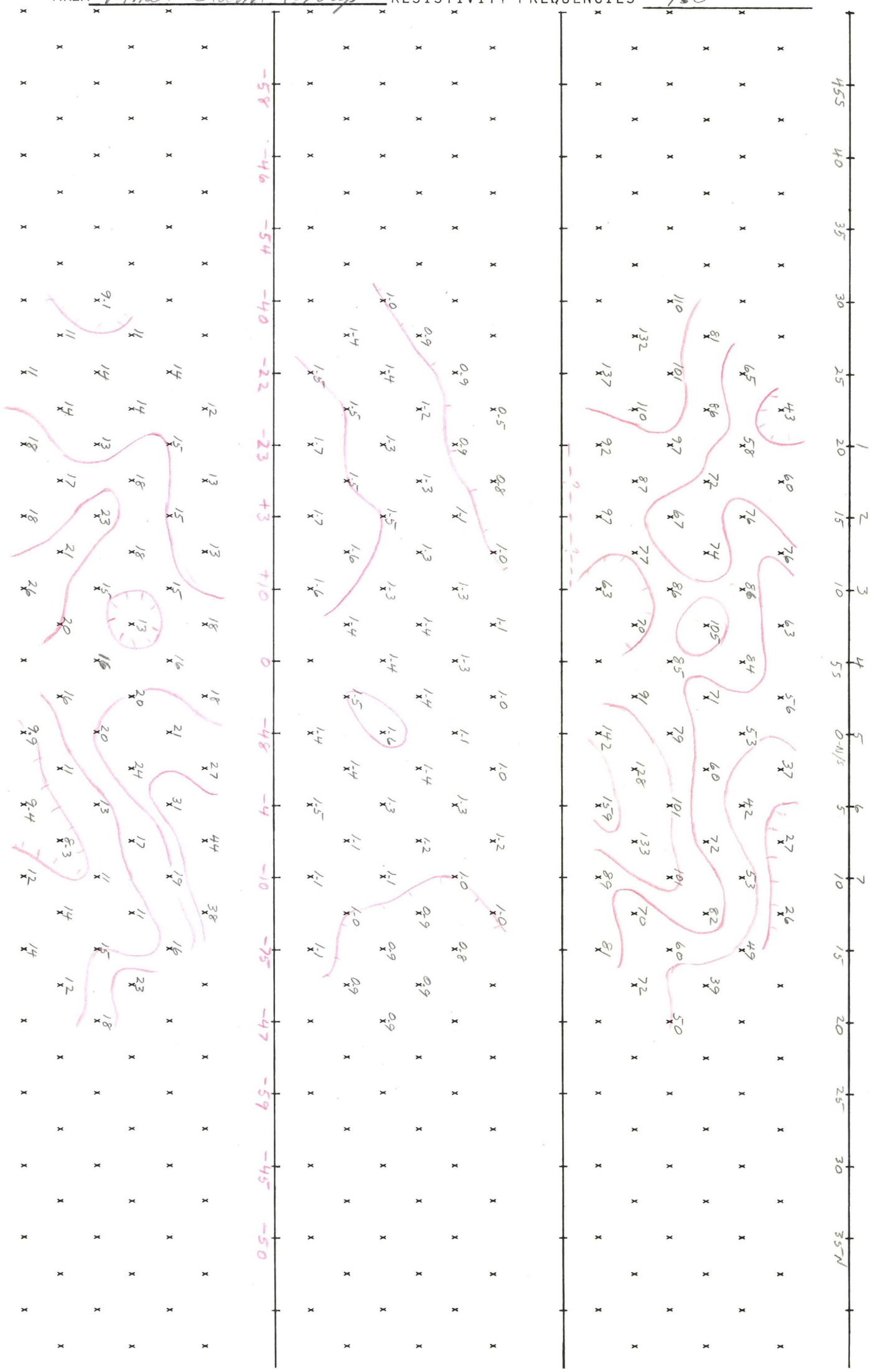
AREA Pinal Clm Grp RESISTIVITY FREQUENCIES 1.0



JOB# 896 LINE# 106 SP 2 a = 500' BEARING N-S

CLIENT Cotlas DATE FEB 74 FREQUENCIES 1.0 & 0.1 Hz

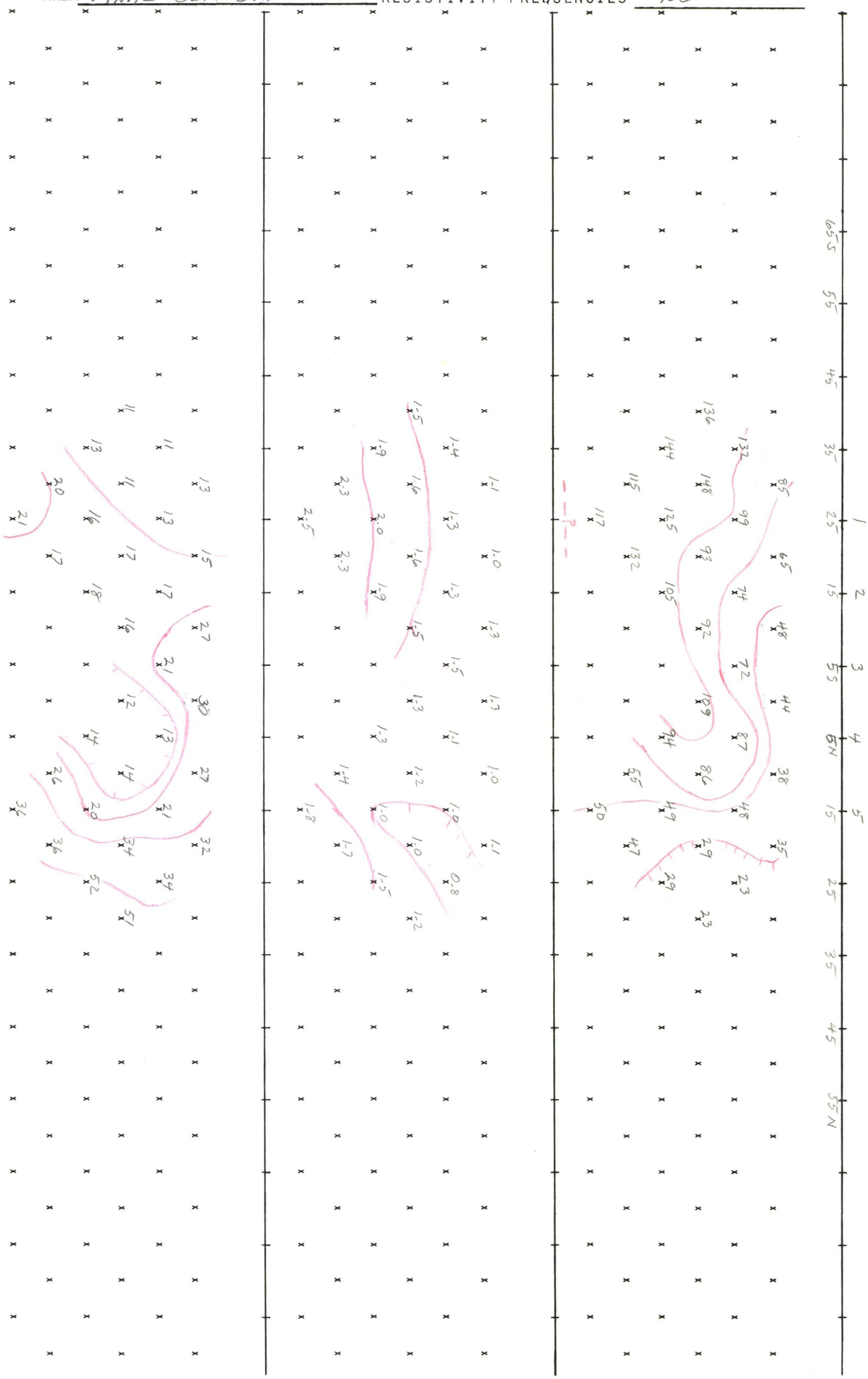
AREA Pinal Claim Group RESISTIVITY FREQUENCIES 1.0



JOB# 896 LINE# 116 SP 1 a = 1000' BEARING N-S

CLIENT Cutler DATE FEB 74 FREQUENCIES 1-0 & 0.1 Hz

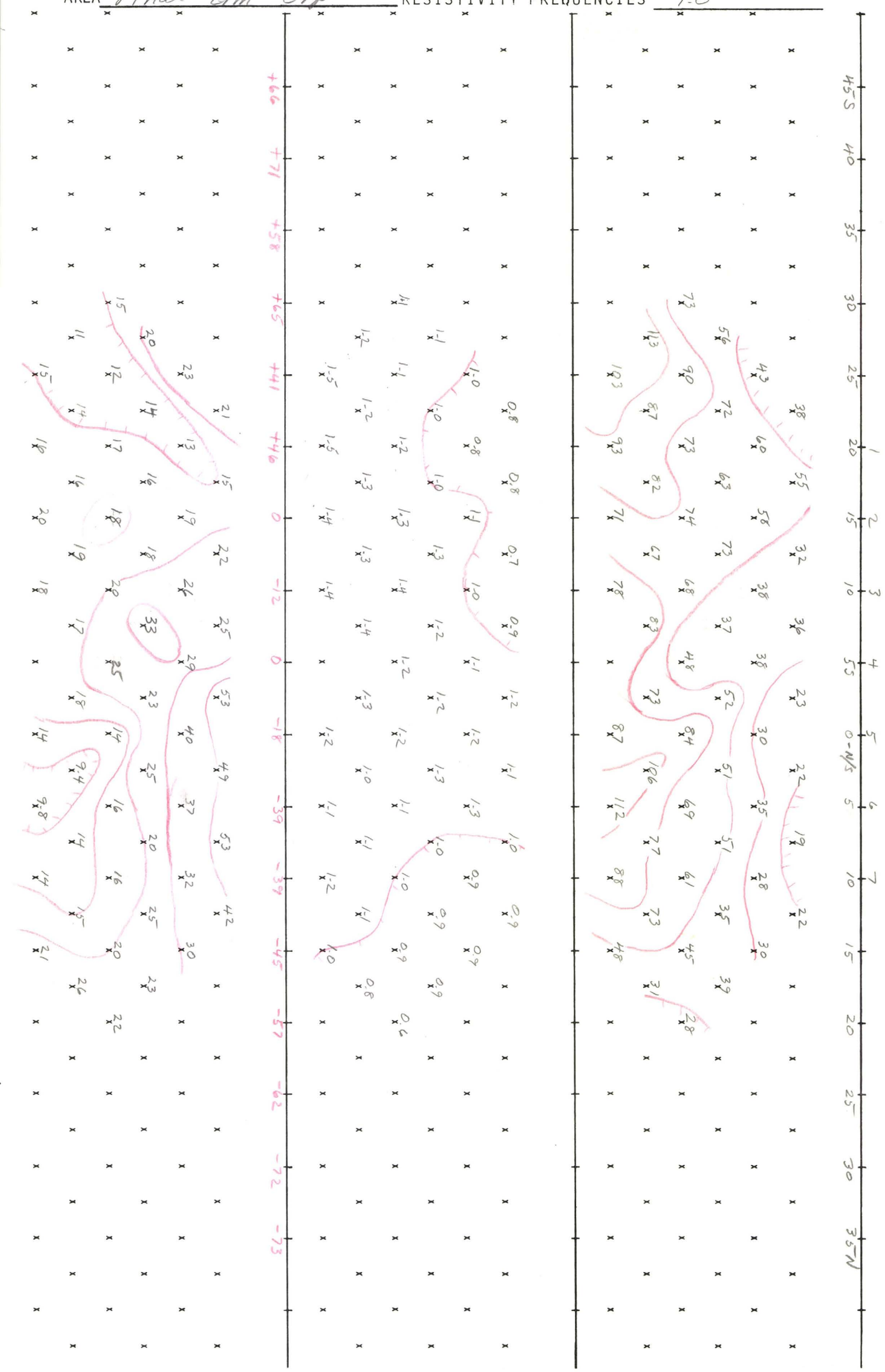
AREA PINAL CLM GRD RESISTIVITY FREQUENCIES 1-0



JOB# 896 LINE# 116 SP 2 a = 500' BEARING N - S

CLIENT Cutlass DATE FEB 74 FREQUENCIES 1.0 & 0.1 Hz

AREA Pinal Dm GRP RESISTIVITY FREQUENCIES 1.0



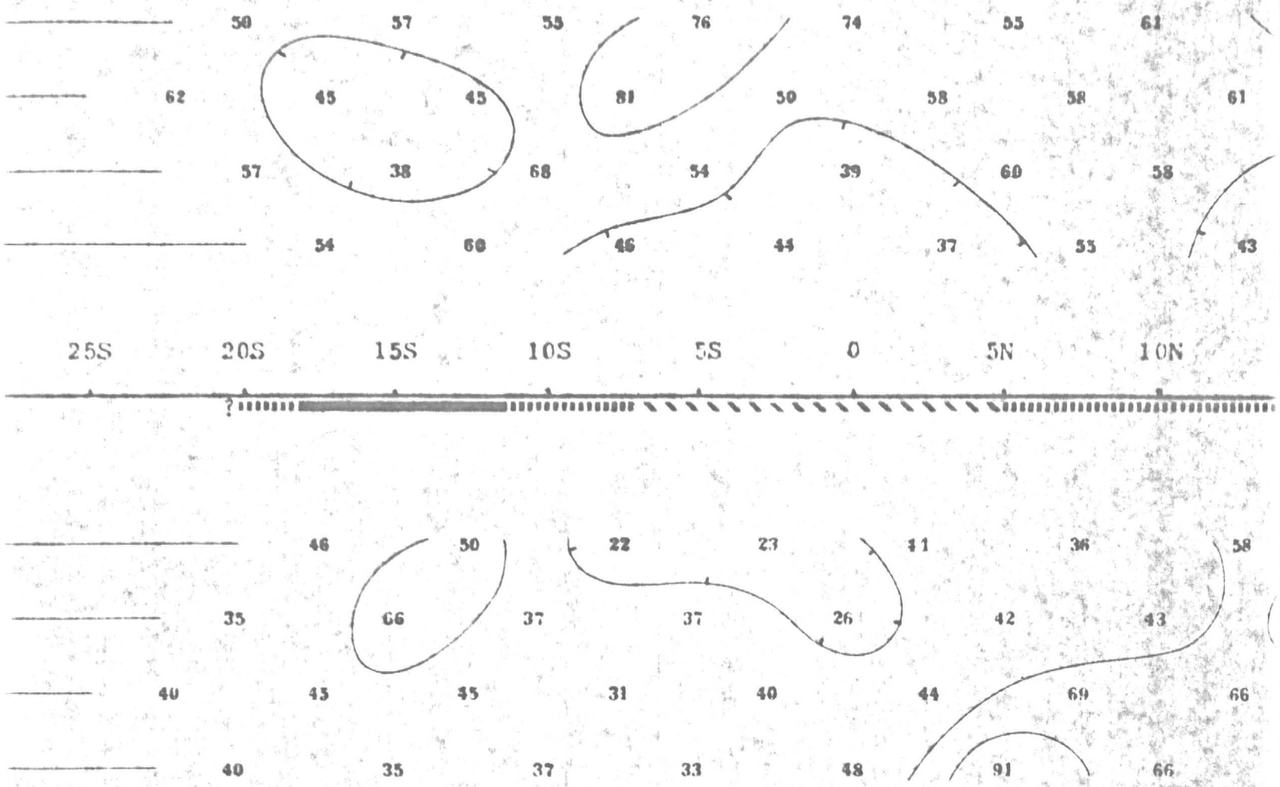
DWG. NO.-I.P.-2533-5

McPHAR GEOPHYSICS LIMITED

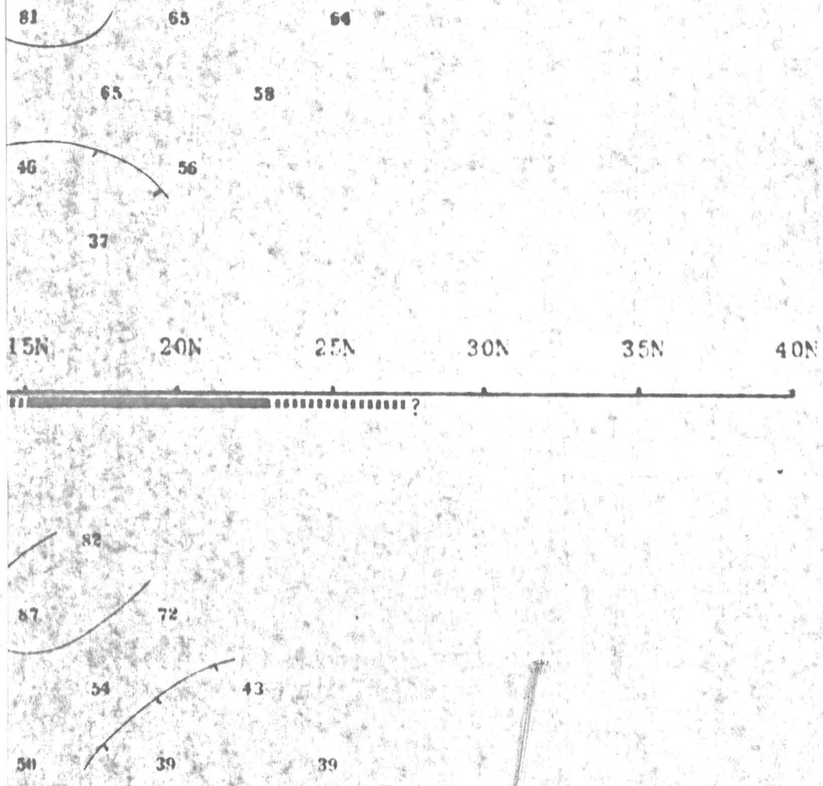
INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

$Pa/2\pi$ (OHM FEET)



25S 20S 15S 10S 5S 0 5N 10N



15N 20N 25N 30N 35N 40N

(M.F.) a

LINE NO.-53W

EL PASO NATURAL GAS COMPANY

PINAL COPPER CORPORATION PROPERTY, PINAL CTY., ARIZONA, U.S.A.

Scale—One inch = 500 Feet

NOTE LOGARITHMIC CONTOUR INTERVAL

FREQUENCY 0.05 & 0.625

DATE SURVEYED SEPT. 1966

APPROVED PA

DATE 9/30/66

McPHAR GEOPHYSICS LIMITED

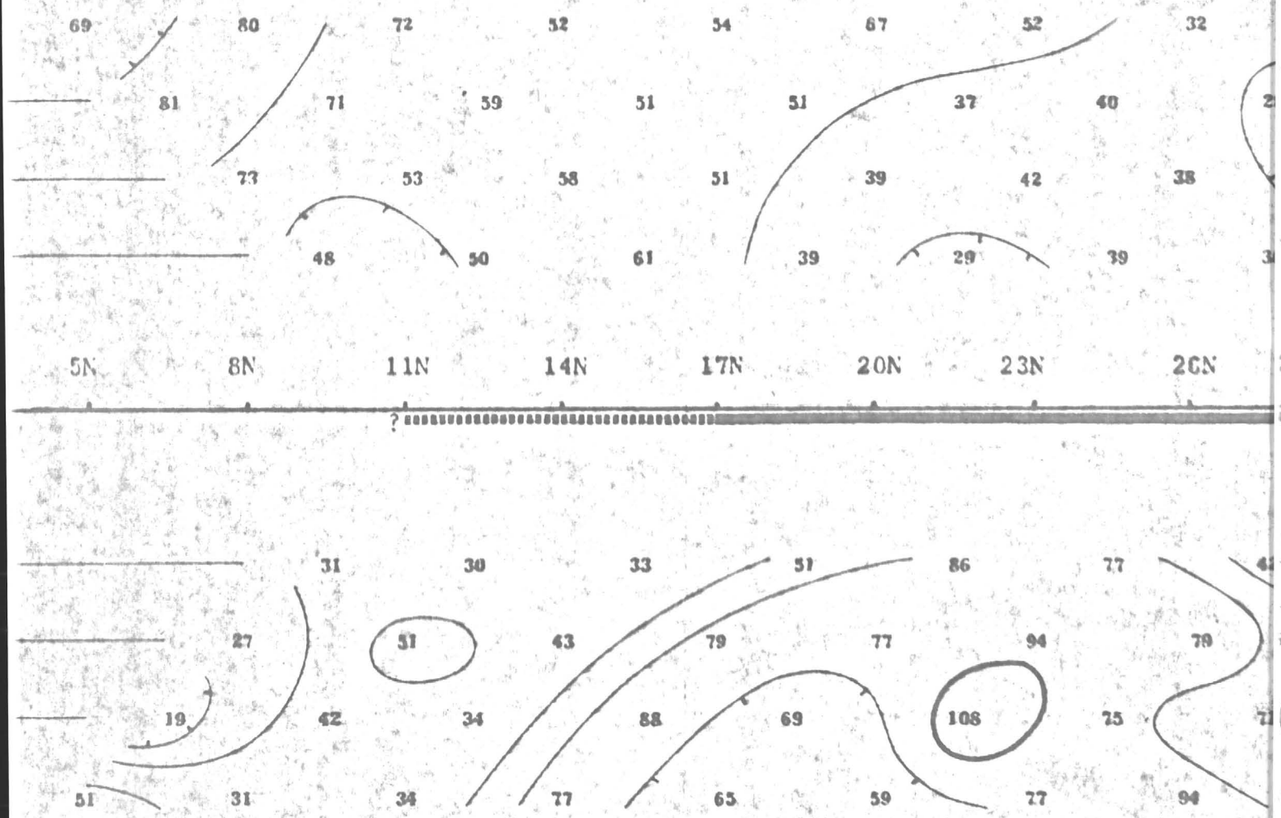
DWG. NO.-I.P.-2533-3

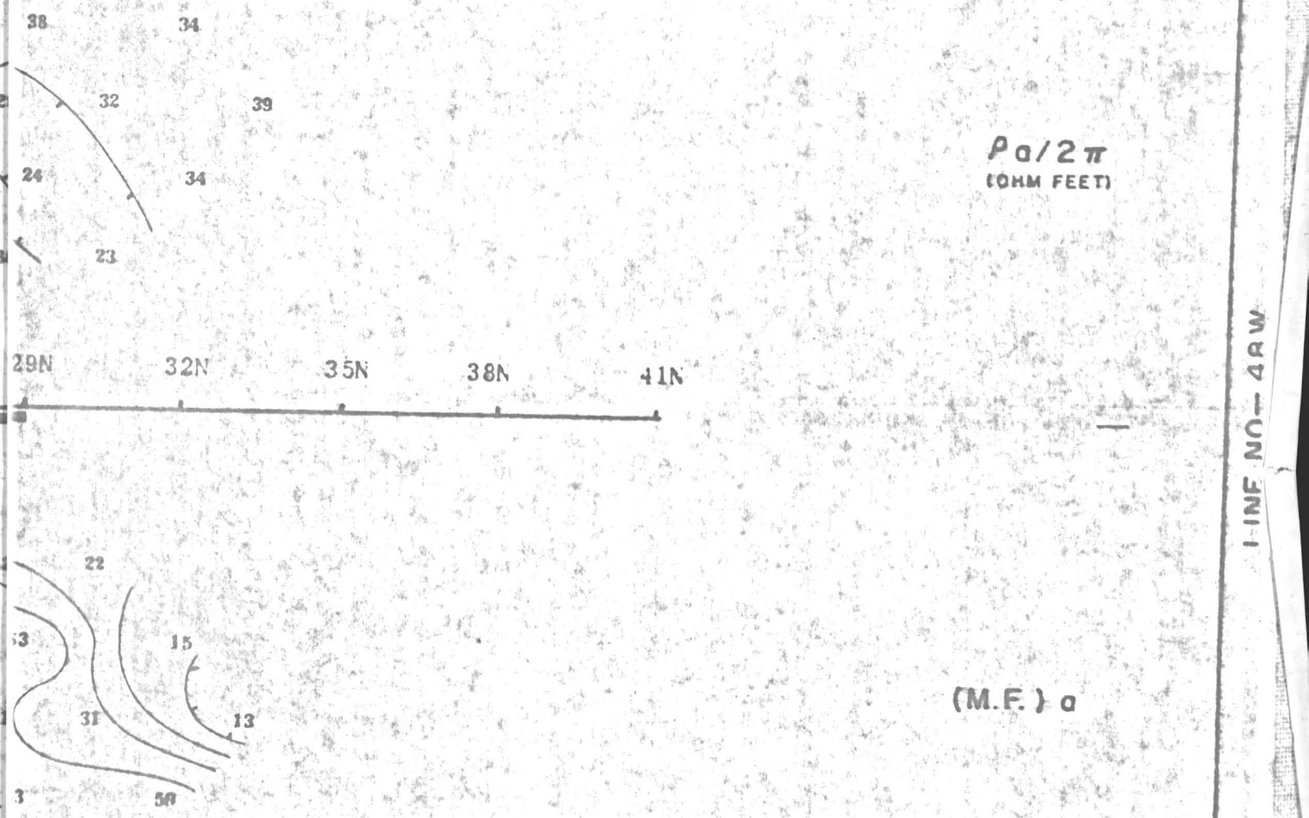
McPHAR GEOPHYSICS LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE CONTOURS AT - LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

$\rho a/2\pi$
(OHM FEET)





(M.F.) a

EL PASO NATURAL GAS COMPANY

PINAL COPPER CORPORATION PROPERTY, PINAL CTY., ARIZONA, U.S.A.

Scale—One inch = 300 Feet

NOTE LOGARITHMIC CONTOUR INTERVAL

FREQUENCY 0.05 & 2.5 C.P.S.

DATE SURVEYED SEPT. 1966

APPROVED

DATE 9/20/66

McPHAR GEOPHYSICS LIMITED

1 INF NO 4 — 4RW

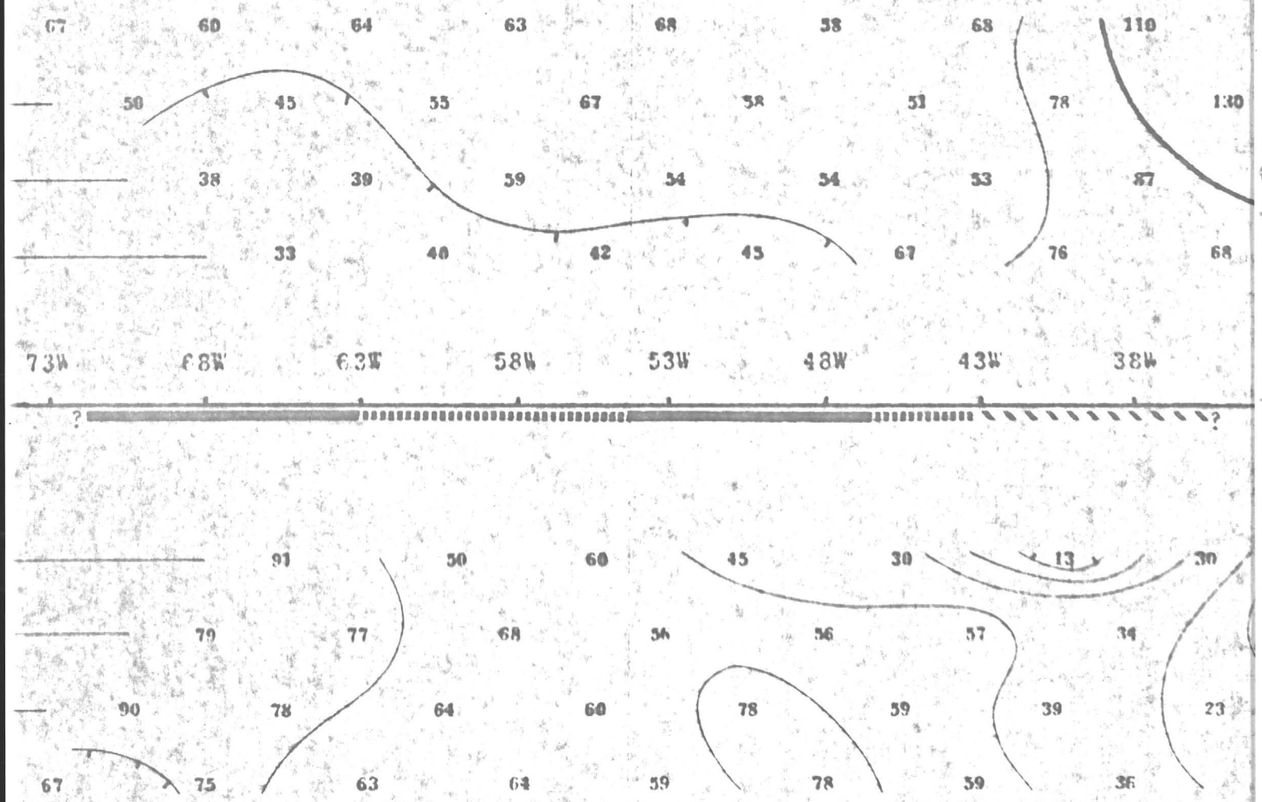
McPHAR GEOPHYSICS LIMITED

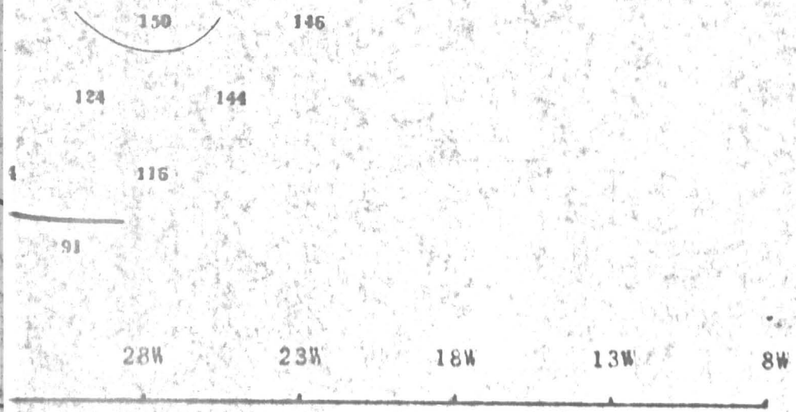
INDUCED POLARIZATION AND RESISTIVITY SURVEY

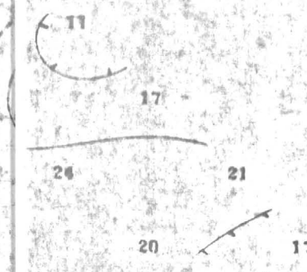
DWG. NO.-I.P.-2533-6

NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

$Pa/2\pi$ (OHM FEET)







LINE NO- 7+50N

(M.F.) 0

EL PASO NATURAL GAS COMPANY

PINAL COPPER CORPORATION PROPERTY, PINAL CTY., ARIZONA, U.S.A.

Scale—One inch = 500 Feet

NOTE LOGARITHMIC CONTOUR INTERVAL

FREQUENCY 0.03 & 1.25 C.P.S.

DATE SURVEYED SEPT. 1966

APPROVED

DATE

McPHAR GEOPHYSICS LIMITED

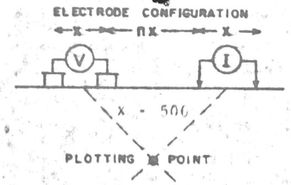
DWG. NO.-I.P.-

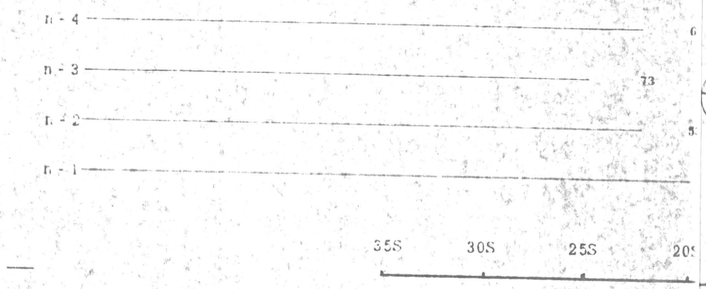
McPHAR GEOPHYSICS LIMITED

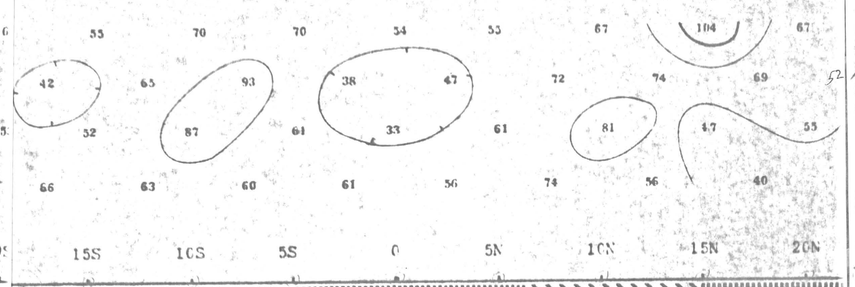
INDUCED POLARIZATION AND RESISTIVITY SURVEY

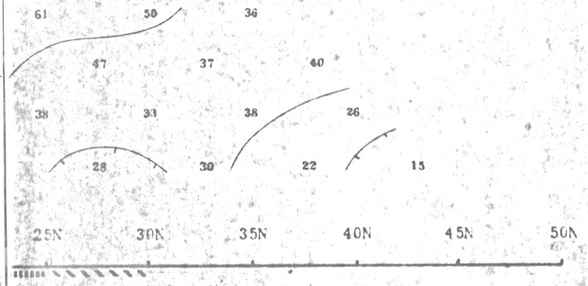
NOTE: CONTOURS LOGARITHMIC MULTIPL. OF 10-15-20-30-50-75-100

ELECTRODE CONFIGURATION

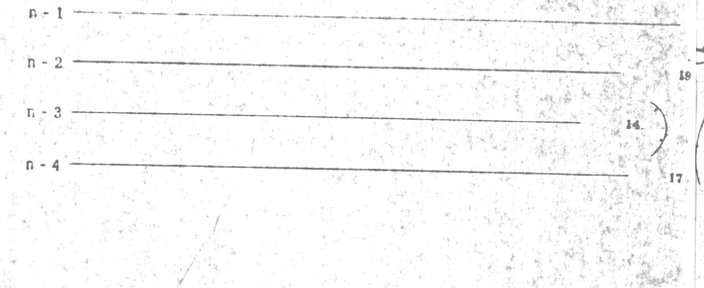


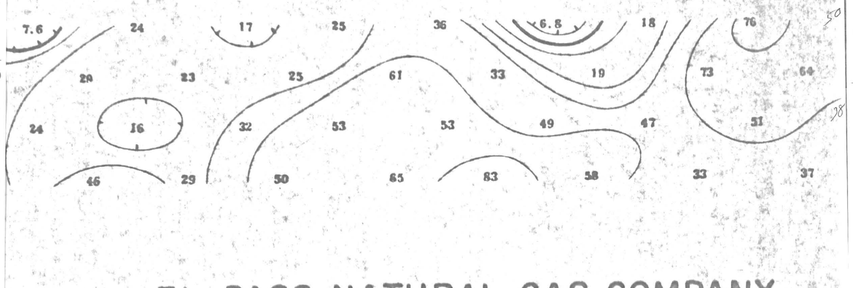


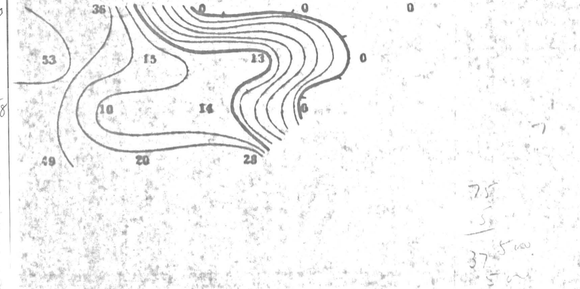




Pa/2π
(OHM FEET)







(M.F.) a

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE
PROBABLE
POSSIBLE

EL PASO NATURAL GAS COMPANY

PINAL COPPER CORPORATION PROPERTY, PINAL CTY., ARIZONA, U.S.A.

Scale—One inch = 500 Feet

NOTE LOGARITHMIC CONTOUR INTERVAL

FREQUENCY 0.05 & 1.25 C.P.S.

DATE SURVEYED SEPT. 1960

APPROVED PJ

DATE 9/20/61

McPHAR GEOPHYSICS LIMITED

LINE NO. 48W

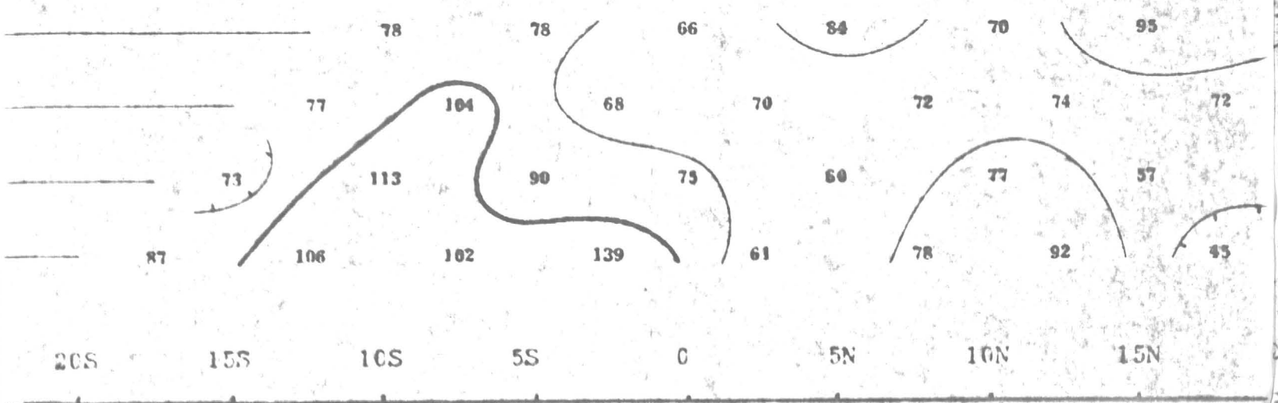
DWG NO.-I.P.-2533-1

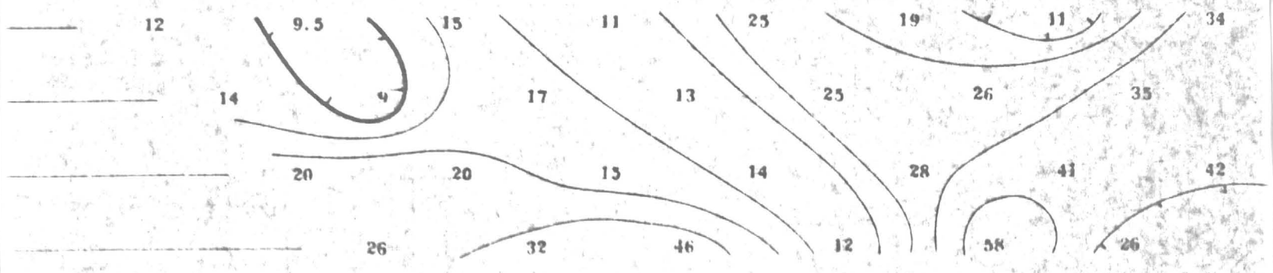
McPHAR GEOPHYSICS LIMITED

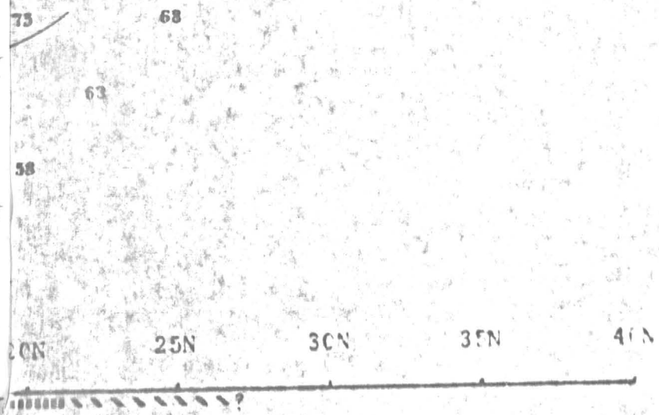
INDUCED POLARIZATION AND RESISTIVITY SURVEY

NOTE. CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

$Pa/2\pi$ (OHM FEET)







(M.F.) a

LINE NO.-143W

FREQUENCY 0.05 & 1.25 C.P.S.

DATE SURVEYED SEPT. 1966

APPROVED

DATE

McPHAR GEOPHYSICS LIMITED

EL PASO NATURAL GAS COMPANY

PINAL COPPER CORPORATION PROPERTY, PINAL CTY., ARIZONA, U.S.A.

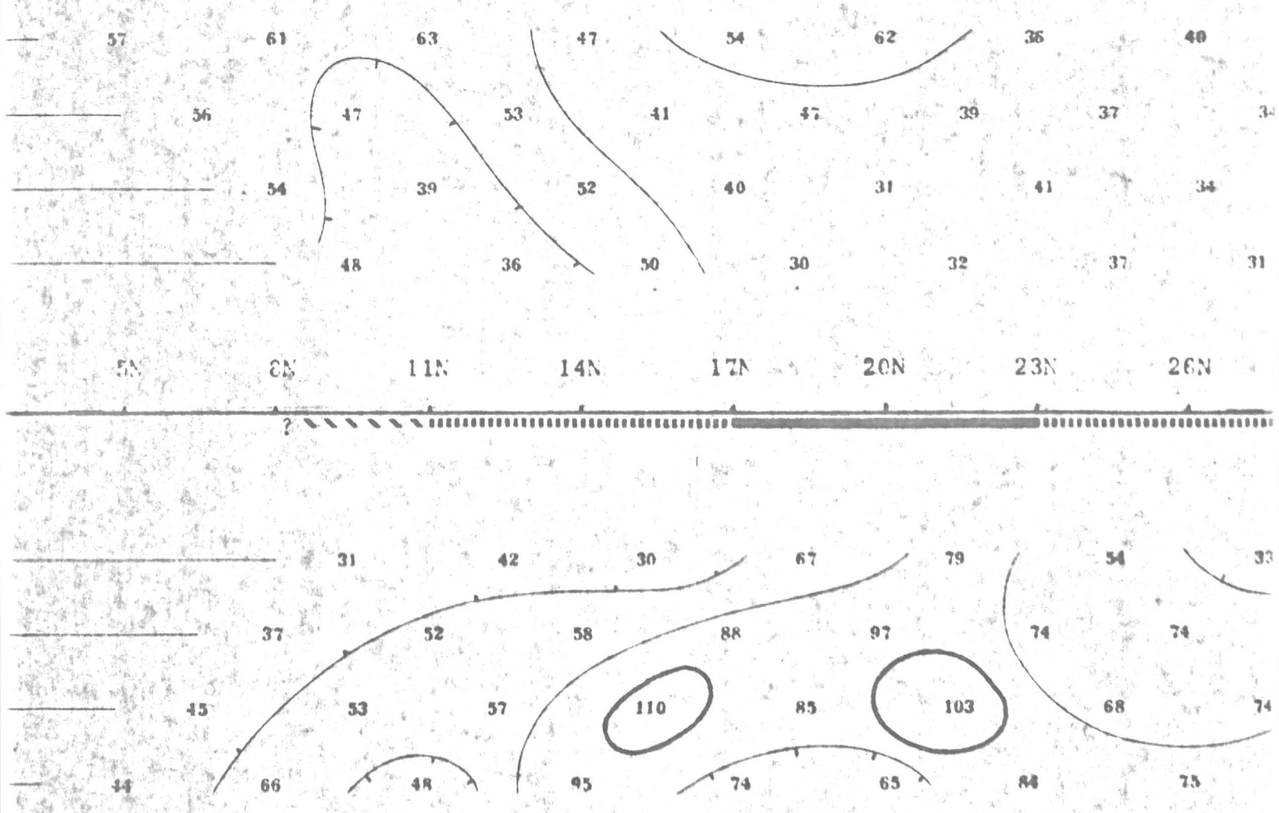
Scale—One inch = 500 Feet

NOTE LOGARITHMIC CONTOUR INTERVAL

DWG. NO.-I.P.-2533-4

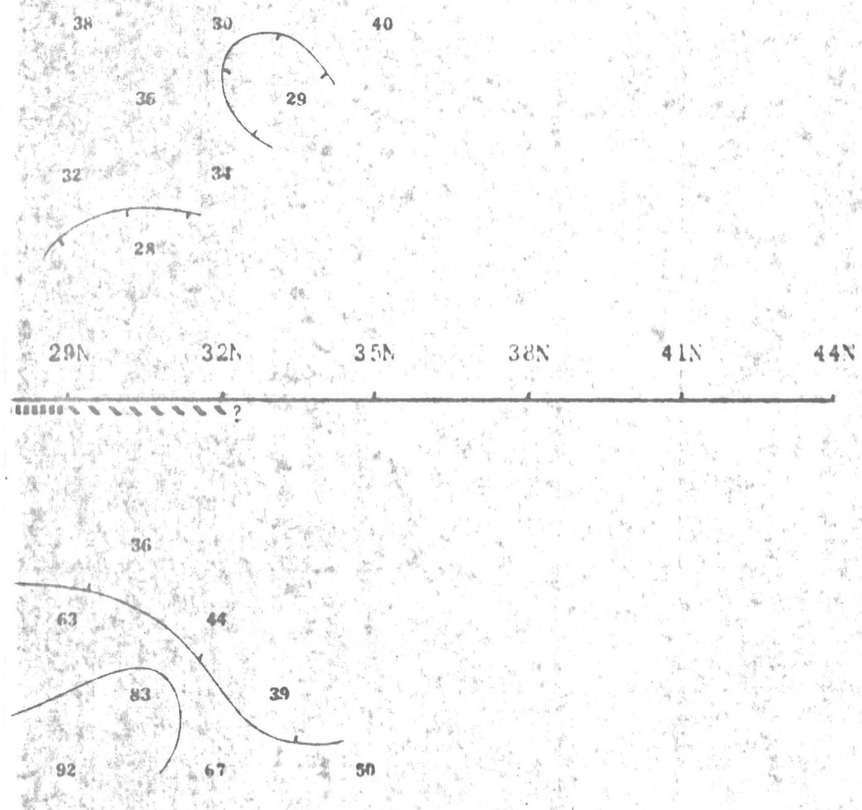
McPHAR GEOPHYSICS LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY



NOTE CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

$\rho a/2\pi$ (OHM FEET)



(M.F.) a

EL PASO NATURAL GAS COMPANY

PINAL COPPER CORPORATION PROPERTY, PINAL CTY., ARIZONA, U.S.A.

Scale—One inch = 300 Feet

NOTE LOGARITHMIC CONTOUR INTERVAL

FREQUENCY 0.05 & 1.25 C.P.S.

DATE SURVEYED SEPT. 1968

APPROVED

DATE 9/30/68

McPHAR GEOPHYSICS LIMITED

I INF NO—51W

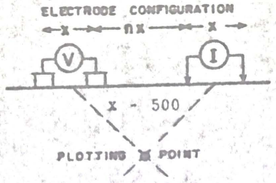
DWG. NO.-I.P.-2533-7

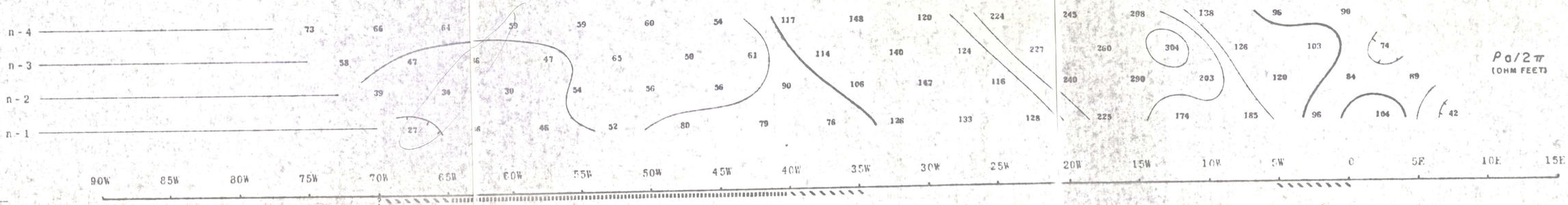
McPHAR GEOPHYSICS LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY

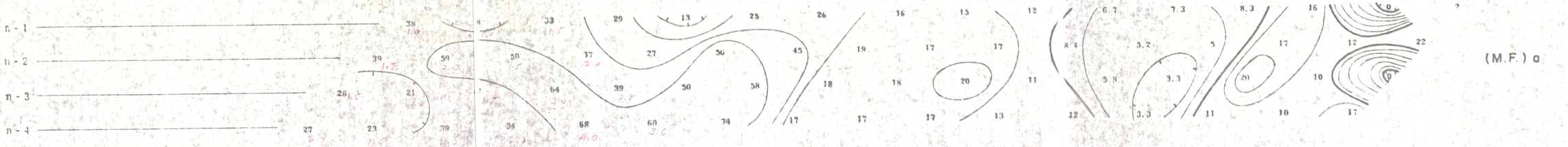
NOTE: CONTOURS AT LOGARITHMIC MULTIPLES OF 10-15-20-30-50-75-100

ELECTRODE CONFIGURATION





Pa/2π (OHM FEET)



(M.F.) a

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE

PROBABLE

POSSIBLE

EL PASO NATURAL GAS COMPANY

PINAL COPPER CORPORATION PROPERTY, PINAL CTY., ARIZONA, U.S.A.

Scale—One inch= 500 Feet

NOTE LOGARITHMIC CONTOUR INTERVAL

FREQUENCY 0.05 & 2.5 C.P.S.

DATE SURVEYED SEPT. 1966

APPROVED

DATE 9/20/66

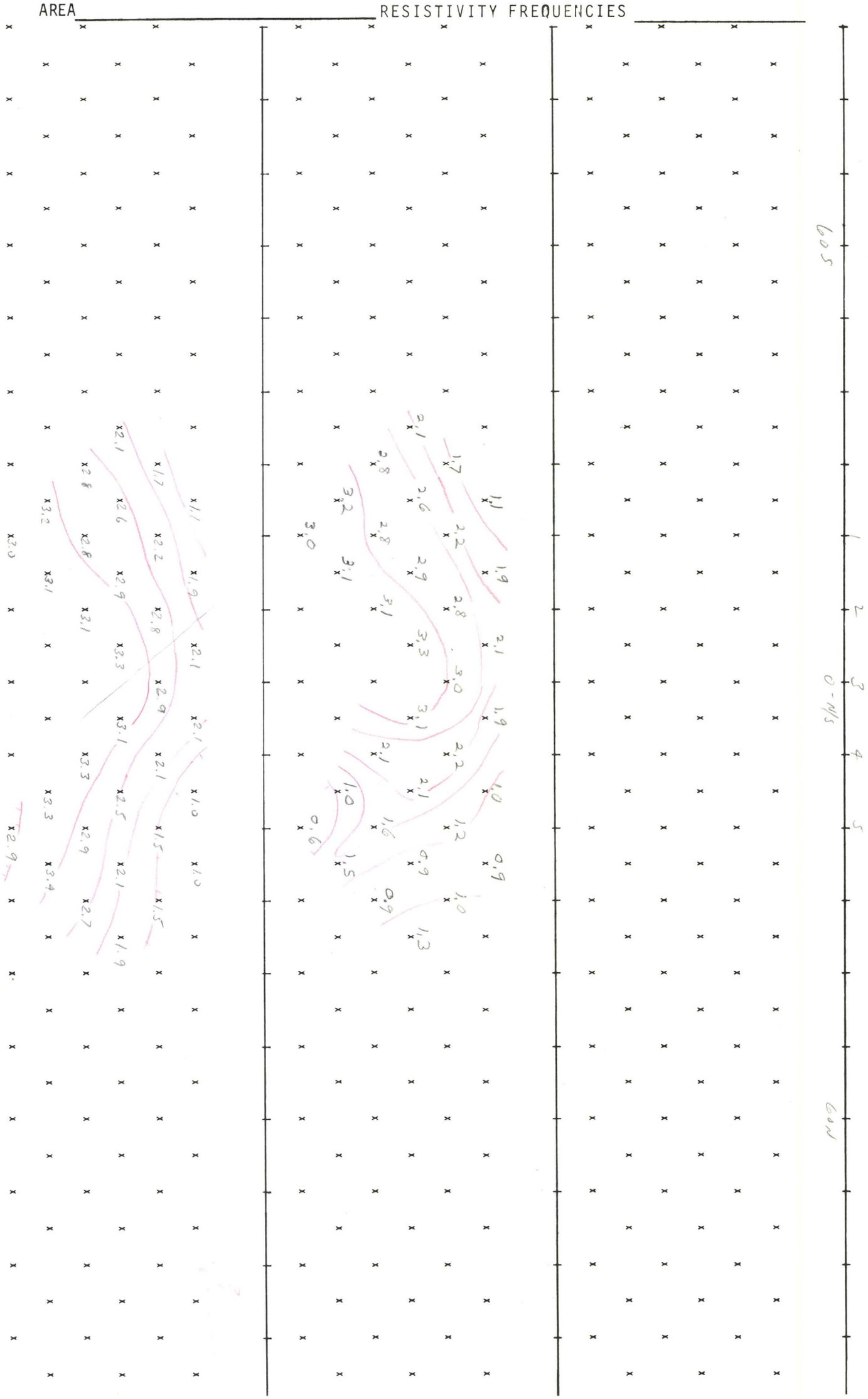
McPHAR GEOPHYSICS LIMITED

LINE NO.-0

JOB# 896 LINE# 86 SP 1 a = 1000' BEARING

CLIENT DATE FREQUENCIES & Hz

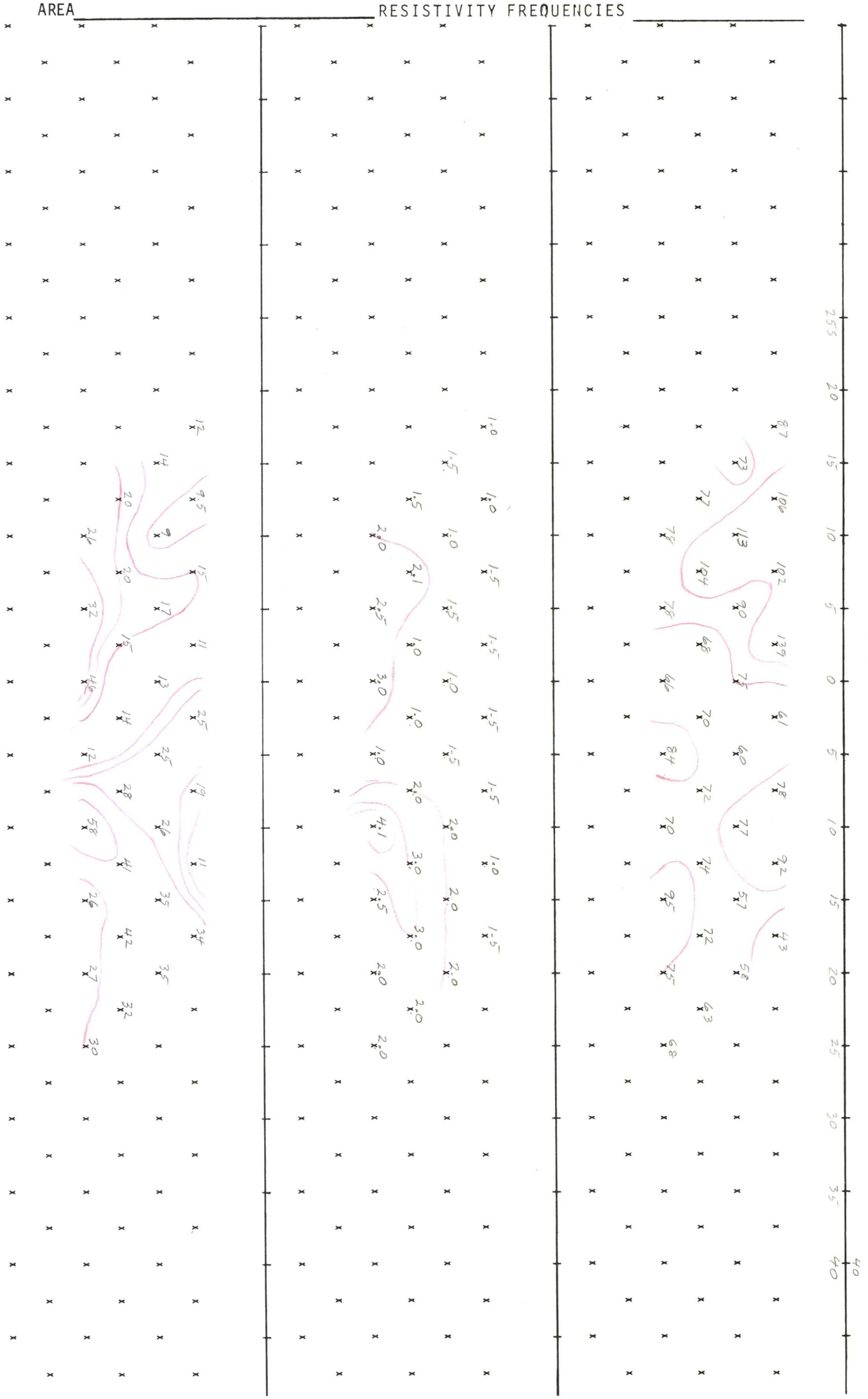
AREA RESISTIVITY FREQUENCIES



JOB# _____ LINE# _____ a = _____ SPACING _____

CLIENT _____ DATE _____ FREQUENCIES _____ & _____ Hz

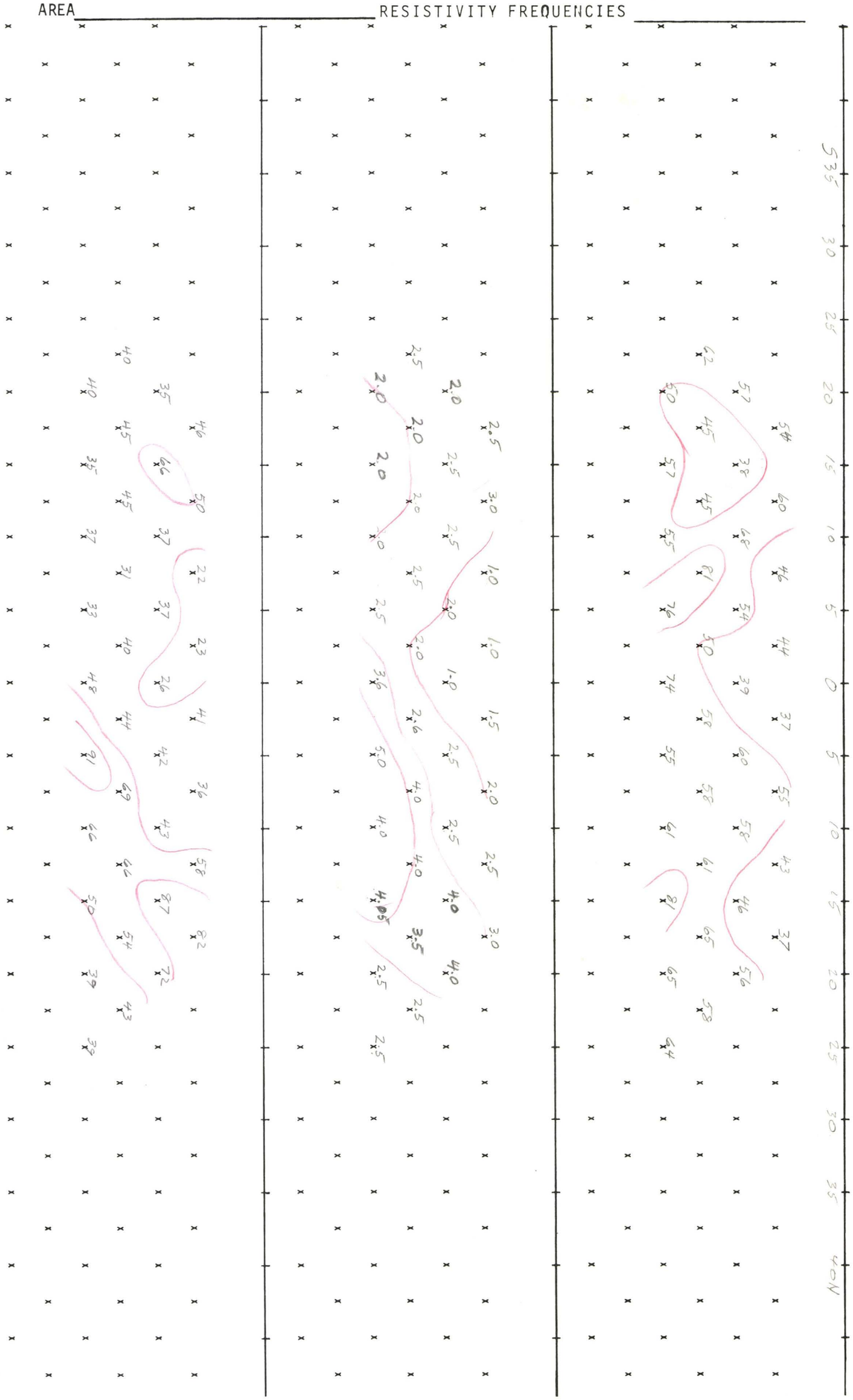
AREA _____ RESISTIVITY FREQUENCIES _____



JOB# _____ LINE# _____ a = _____ SPACING _____

CLIENT _____ DATE _____ FREQUENCIES _____ & _____ Hz

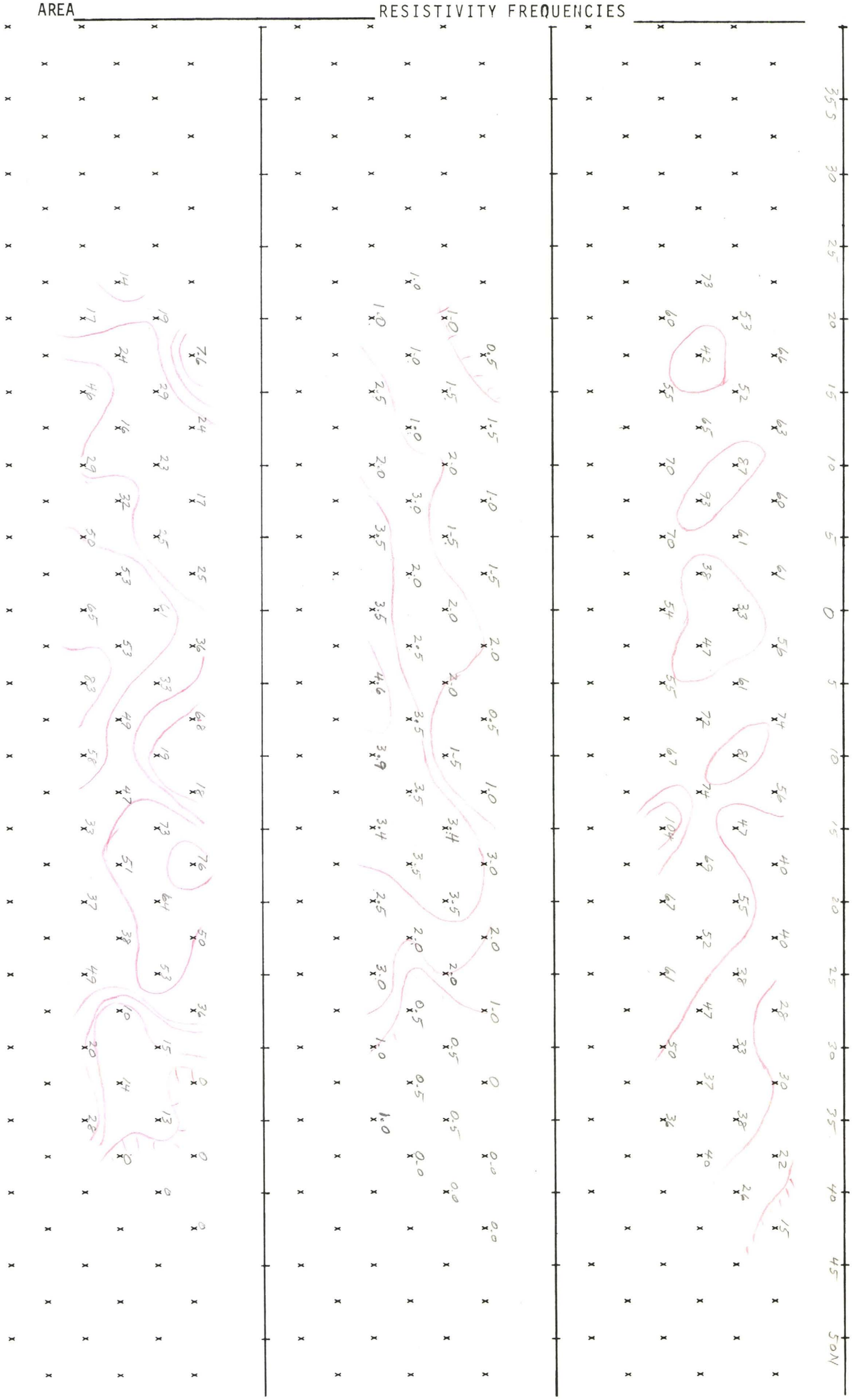
AREA _____ RESISTIVITY FREQUENCIES _____



JOB# _____ LINE# _____ a = _____ SPACING _____

CLIENT _____ DATE _____ FREQUENCIES _____ & _____ Hz

AREA _____ RESISTIVITY FREQUENCIES _____



CAL 102-2 +0-3

I. P. RECEIVER NOTES, JOB NO. 896, AREA Pinal Clm Grp

LINE 106W, HALF N, SR. 1, a = 1000', BEARING N

SENDER STA. 5S = ELECTRODE NO. 3, DATE 6 Feb 74

PAGE 1

HEINRICHS GEOEX

SEND	1-2	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2
RECEIVE	5S-5N	5N —	15N	15N	——	25N	25N	——	——	35N
MULTIPLIER	10	1.0	1.0	10	1.0	1.0	1.0	1.0	1.0	0.1
PFE	1.7	1.6	1.9	1.3	1.5	1.9	1.3	1.3	1.7	1.9
CUR. (AMPS)	5	——	——	——	——	——	——	——	——	5
POINT NO.										
SEP. (n)	1	1	2	1	2	3	1	2	3	4
H. F. MV	141.0	100.8	33.5	112.0	51.2	23.2	55.0	28.5	16.5	8.37
DRIFT	0.0	0.0	0.0	0.0	0.0	0.0±.2	0.0	0.0	0.0	0.0±.2
1.0 PFE K_n/1000										
0.3 PFE P_{CAL}										
0.1 PFE PFE_c	1.4	1.3	1.6	1.0	1.2	1.6	1.0	1.0	1.4	1.6
3.0 MV $P/2\pi$	85	60	80	67	123	139	33	68	99	100
DRIFT MCF	17	21	20	15	9.8	11	30	15	14	16
S. P.	~~+29.5~~	-46.0		+31.0			+26.0			
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 896, AREA Pinal Clm Grp

LINE 106W, HALF N, SR. 1, a = 1000', BEARING N

SENDER STA. _____ = ELECTRODE NO. _____, DATE 6 Feb 74

HEINRICHS GEOEX

SEND	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2		
RECEIVE	35N	———	———	45N	45N	———	———	55N		
MULTIPLIER	1.0	1.0	0.1	0.1	0.1	0.1	0.1	0.1		
PFE	1-3	1.6	1.5	1.9	1.6	1.7	2.3 2.5 2.0	2.4		
CUR. (AMPS)	5	———	———	———	———	———	———	5		
POINT NO.										
SEP. (n)	2	3	4	5	3	4	5	6		
H. F. MV	16.8	11.1	7.44	4.19	3.53	2.81	2.20	1.44		
DRIFT	0.0	0.0±.4	0.0±.2	±.5	0.0±.5	±.2	±.2	? bad!		
1.0 PFE K_n/1000										
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	1.0	1.3	1.2	1.6	1.3	1.4	2.2	2.1		
3.0 MV $P/2\pi$	40	67	89	88	21	34	46	48		
DRIFT MCF	25	20	13	18	61	42	48	43		
S. P.	+6.0				+9.0					
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 896, AREA Pinal Clm Grp

LINE 106W, HALF 5, SR. 1, a = 1000', BEARING 5

SENDER STA. 55 = ELECTRODE NO. 3, DATE 2-7-74

HEINRICHS GEOEX

SEND		4-5	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5
RECEIVE		55-155	155	255	255		355	355			455
MULTIPLIER		1.0	10	1.0	10	1.0	1.0	10	1.0	1.0	0.1
PFE		1.6	1.5	1.8	1.3	1.9	2.0	1.3	1.6	2.1	2.3
CUR. (AMPS)		5									5
POINT NO.											
SEP. (n)		1	1	2	1	2	3	1	2	3	4
H. F. MV		99.4	145	33.7	11.9	34.0	11.9	148	48.3	12.7	7.08
DRIFT							-0.1	+0.1	-0.2		+0.1
1.0 PFE	K_n/1000										
0.3 PFE	P_{CAL}										
0.1 PFE	PFE_c	1.3	1.2	1.5	1.0	1.6	1.7	1.0	1.4	1.8	2.0
3.0 MV	$P/2\pi$	60	87	81	71	82	71	89	116	106	85
DRIFT	MCF	22	14	19	14	20	24	11	12	17	24
S. P.		+24.3	-46.0		+34.2			+28.7			
NOISE											
POT RES.											
CULT & CMTS											

I. P. RECEIVER NOTES, JOB NO. 896, AREA Pinal Clm Grp

LINE 106W, HALF S, SP. 1, a = 1000', BEARING S

SENDER STA. 5 S = ELECTRODE NO. 3, DATE 2-7-74

HEINRICHS GEOEX

NOR

SEND		1-2	2-3	3-4	4-5	1-2	2-3	3-4	4-5		Cal
RECEIVE		4S5			5S5	5S5			6S5		
MULTIPLIER		1.0	1.0	1.0	1.0	1.0	1.0	0.1	0.1		1.0
PFE		1.7	2.1	2.5	2.6	1.8	2.3	2.8	3.1 3.2		+0.2
CUR. (AMPS)		5							5		1.0
POINT NO.											
SEP. (n)		2	3	4	5	3	4	5	6		
H. F. MV		56.9	28.4	11.8	5.14	24.6	15.0	6.81	3.10		101.9
DRIFT		+0.2	—	-0.1	—	—	—	—	-0.2		—
1.0 PFE	K_n/1000										
0.3 PFE	P_{CAL}										
0.1 PFE	PFE_c	1-*3	1-8	2-7	2-3	1-5	2.0	2.5	2.9		
3.0 MV	P/2π	137	170	142	108	148	180	143	104		
DRIFT	MCF	9-5	11	16	21	10	11	17	2.9-3.2 28		
S. P.		+26.6				#0.0					
NOISE											
POT RES.											
CULT & CMTS											

I. P. SENDER NOTES

JOB No. 896 AREA Pinal Clm Grp

LINE 106W, HALF N, SP. 1/1000', DATE 6 Feb 74

PAGE 1

HEINRICHS GEOEX

SEND	1-2	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2
RECEIVE	5S-5N	5N	15N	15N		25N	25			35N
RANGE	1666X30	1666X30	1666X30	1666X30	1666X30	1666X30	1666X30	1666X30	1666X30	1666X30
VOLTAGE	820	640	800	560	640	800	780	460	620	800
CURRENT	5	5	5	5	5	5	5	5	5	5
SEND	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2		
RECEIVE	35N			45N	45			55N		
RANGE	1666X30	1666X30	1666X30	1666X30	1666X30	1666X30	1666X30	1666X30		
VOLTAGE	760	460	620	800	760	440	620	780		
CURRENT	5	5	5	5	5	5	5	5		

FREQUENCIES 1.0 & 0.1

SENDER No. 8661-S

OPERATOR T. Downing

RECEIVER No. D-D.

OPERATOR R-J.

COMMENTS:

I. P. SENDER NOTES

JOB No. 896 AREA PINAL CLM - GRP.

LINE 106W, HALF 5, SP. 1 (1000'), DATE 7 Feb 74

HEINRICHS GEOEX

SEND	4-5	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5
RECEIVE	55-155	155	255	255		355	355			455
RANGE										
VOLTAGE	810	580	810	660	580	810	830	650	570	800
CURRENT	5	5	5	5	5	5	5	5	5	5
SEND	1-2	2-3	3-4	4-5	1-2	2-3	3-4	4-5		
RECEIVE	455			555	555			655		
RANGE										
VOLTAGE	830	650	570	790	830	650	570	790		
CURRENT	5	5	5	5	5	5	5	5		

FREQUENCIES 1-0 & 0.1

SENDER No. 8661-S

OPERATOR R.J.

RECEIVER No. D.D.

OPERATOR R.P.

COMMENTS:

I. P. RECEIVER NOTES, JOB No. 896, AREA Final Claim Group

LINE 96W, HALF N, SR. 1, a = 1000', BEARING N

SENDER STA. 0 = ELECTRODE No. 3, DATE 2-1-74

PAGE 1

HEINRICHS GEOEX

SEND		1-2	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2
RECEIVE		0-10N	10	20N	20		30N	30			40N
MULTIPLIER		10	1.0	1.0	10	1.0	1.0	1.0	1.0	1.0	0.1
PFE		1.5	1.3	1.5	1.1	1.5	1.8	0.8	1.2	1.6	1.9
CUR. (AMPS)		5	5	5	5	5	5	5	6	6	5
POINT NO.		1		2							
SEP. (n)		1	1	2	1	2	3	1	2	3	4
H. F. MV		184	73.0	21.0	14.9	57.9	21.9	63.6	29.9	16.6	6.48
DRIFT		—	+0.2	—	—	—	—	—	—	—	—
1.0 PFE	K_n/1000										
0.3 PFE	P_{CAL}										
0.1 PFE	PFE_c	1.3	1.1	1.3	0.9	1.3	1.6	0.6	1.0	1.4	1.7
3.0 MV	$P/2\pi$	110	44	50	89	139	131	38	60	83	78
DRIFT	MCF	12	25	26	10	9	12	16	17	17	22
S. P.		+24.9	0.0		+3.6			+3.2			
NOISE											
POT RES.											
CULT & CMTS											

110 125 223 348 328 75 150 208 195

I. P. RECEIVER NOTES, JOB NO. 896, AREA Final Claim Group — PAGE 2

LINE 96W, HALF N, SP. 1, a = 1000', BEARING N

SENDER STA. 0 = ELECTRODE NO. 3, DATE 2-1-74

HEINRICHS GEOEX

SEND		4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2		Cal
RECEIVE		40			50N	50			60N		2-1-74
MULTIPLIER		1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1		1.0
PFE		1.3	1.8	2.4	2.6	1.6	2.0	2.5	2.5		+0.2
CUR. (AMPS)		6	6	6	5	6	6	6	5		1.0
POINT NO.											
SEP. (n)		2	3	4	5	3	4	5	6		
H. F. MV		16.8	8.35	5.51	2.50	8.47	4.84	3.71	1.89		1018
DRIFT		—	—	—	—	—	—	—	—		—
1.0 PFE	K_n/1000										
0.3 PFE	ρ_{CAL}										
0.1 PFE	PFE_c	1.1	1.6	2.2	2.4	1.4	1.8	2.3	2.3		
3.0 MV	$\rho/2\pi$	34	42	55	51	42	48	63	64		
DRIFT	MCF	33	38	40	47	33	39	36	36		
S. P.		-5.8				+22.0					
NOISE											
POT RES.											
CULT & CMTS											
		85	105	138	128	105	120	158	160		

I. P. RECEIVER NOTES, JOB NO. 896, AREA Pinal Claim Group

LINE 96W, HALF 5, SR. 1, a = 1000', BEARING 5

SENDER STA. 00N S = ELECTRODE NO. 3, DATE 2-4-74

HEINRICHS GEOEX

SEND		4-5	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5
RECEIVE		0-10S	10 —	20S	20 —	—	30S	30 —	—	—	40S
MULTIPLIER		10	10	1.0	10	1.0	1.0	1.0	1.0	1.0	0.1
PFE		1.7	1.7	1.7	1.7	2.0	2.3	1.2	2.0	2.5	2.6
CUR. (AMPS)		5 —	—	—	—	—	—	—	—	—	5
POINT NO.											
SEP. (n)		1	1	2	1	2	3	1	2	3	4
H. F. MV		177	180	52.2	173	42.8	17.0	156	56.1	19.0	9.15
DRIFT		+0.2	+0.1	-0.2	+0.1	-0.1	—	+2	—	—	—
1.0 PFE	K_n/1000										
0.3 PFE	P_{CAL}										
0.1 PFE	PFE_C	1.3	1.4	1.5	1.4	1.7	2.0	0.9	1.7	2.2	2.3
3.0 MV	P/2π	106	108	125	104	103	102	94	135	114	110
DRIFT	MCF	12	13	12	13	17	20	9.6	13	19	21
S. P.		+52.9	+8.8		+11.0			+10.8			
NOISE											
POT RES.											
CULT & CMTS											

I. P. RECEIVER NOTES, JOB NO. 596, AREA Final Claim Group — PAGE 24

LINE 96W, HALF 5, SR. 1, a = 1000', BEARING S

SENDER STA. 50 N S = ELECTRODE NO. 3, DATE 2-4-74

HEINRICHS GEOEX

SEND	1-2	2-3	3-4	4-5	1-2	2-3	3-4	4-5		Cal
RECEIVE	40			505	50			605		2-4-74
MULTIPLIER	1.0	1.0	1.0	0.1	1.0	1.0	0.1	0.1		1.0
PFE	1.6	2.5	2.8	2.8	2.2	2.9	3.2	3.2		+0.3
CUR. (AMPS)	5							5		1.0
POINT NO.										
SEP. (n)	2	3	4	5	3	4	5	6		
H. F. MV	47.5	25.8	10.3	5.59	21.3	13.8	6.13	3.59		1020
DRIFT	—	+0.1	—	—	—	—	—	—		—
1.0 PFE K_n/1000										
0.3 PFE P_{CAL}										
0.1 PFE PFE_C	1.8	2.2	2.5	2.5	1.9	2.6	2.9	2.9		
3.0 MV $P/2\pi$	114	155	124	117	128	166	129	121		
DRIFT MCF	11	14	20	21	15	16	23	24		
S. P.	+12.5				+12.6					
NOISE										
POT RES.										
CULT & CMTS										

I. P. SENDER NOTES

JOB NO. 896 AREA Pinal Clm Grp

LINE 96W, HALF N, SP. 1 1000', DATE 1 Feb 74

HEINRICHS GEOEX

PAGE 1

SEND	1-2	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2
RECEIVE	0-10N	10N	20N	20N		30N	30N			40N
RANGE	100x50						→	300x20	→	
VOLTAGE	730	560	730	540	550	720	470	640	660	720
CURRENT	5	5	5	5	5	5	5	6	6	5
SEND	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2		
RECEIVE	40N			50N	50N			60N		
RANGE										
VOLTAGE	560	630	660	710	560	630	650	710		
CURRENT	6	6	6	5	6	6	6	5		

FREQUENCIES 1-040-1

SENDER NO. 26721-5

OPERATOR R. J.

RECEIVER NO. D. D.

OPERATOR R. P.

COMMENTS:

I. P. SENDER NOTES

JOB No. 896 AREA Pinal Clm Grp

LINE 96W, HALF 5, SP. 1/1000', DATE 4 Feb 74

HEINRICHS GEOEX

SEND	4-5	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5
RECEIVE	0-10S	10S —	20S	20S —		30S	30S —			40S
RANGE	166.6X30									
VOLTAGE	440	510	440	530	510	440	530	530	510	440
CURRENT	5	5	5	5	5	5	5	5	5	5
SEND	1-2	2-3	3-4	4-5	1-2	2-3	3-4	4-5		
RECEIVE	40S —			50S	50S —			60S		
RANGE										
VOLTAGE	530	530	510	440	530	530	510	440		
CURRENT	5	5	5	5	5	5	5	5		

FREQUENCIES	1.0 & 0.1
SENDER No.	8661-5
OPERATOR	R.J.
RECEIVER No.	D-D.
OPERATOR	R.P.

COMMENTS:

I. P. RECEIVER NOTES, JOB NO. 896, AREA Pinal Clm Grp

LINE 116W, HALF N, SR 1, a = 1000', BEARING NW

SENDER STA. 55 = ELECTRODE NO. 3, DATE 5 Feb 74

PAGE 1

HEINRICHS GEOEX

SEND	1-2	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2
RECEIVE	55-5N	5N	15N	15N		25N	25N			35N
MULTIPLIER	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1-0	1.0	0.1
PFE	1.6	1.6	1.8	1.3	1.4	1.6	1.4	1-3	1.5	1.6 1.9
CUR. (AMPS)	5									5.0
POINT NO.										
SEP. (n)	1	1	2	1	2	3	1	2	3	4
H. F. MV	79.7	73.4	30.0	62.8	36.1	18.1	57.9	20.1	14.4	7.87 3.09
DRIFT	0.0	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 ρ_{CAL}										
0.1 PFE PFE_c	1.3	1.3	1.5	1.0	1.1	1.3	1-1	1.0	1-2	1.3
3.0 MV $P/2\pi$	48	44	72	38	87	109	35	48	86	94
DRIFT MCF	27	30	21	27	13	12	32	21	14	14
S. P.	-6.1	+36.6		-32.0			+8.7			Filter on
NOISE										3.0 0.3
POT RES.				✓						
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 896, AREA Pinal Clm Exp

LINE 116W, HALF N, SR. 1, a = 1000', BEARING N

SENDER STA. _____ = ELECTRODE NO. _____, DATE 5 Feb 74

HEINRICHS GEOEX

SEND		4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2	CAL	
RECEIVE		35N			45N	45N			55N		
MULTIPLIER		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	+0.3	
PFE		1.1	1.3	1.3 (1.2–1.6)	1.7	1.5 (1.7)	1.8	2.0	2.1	+0.85	
CUR. (AMPS)		5.0							5.0	1	
POINT NO.											
SEP. (n)		2	3	4	5	3	4	5	6		
H. F. MV		9.70	4.85	4.10	2.61	3.89	2.40	2.23	1.49	102.8	
DRIFT		0.0	0.0	0.0±.2	0.0±.2	0.0±.2	0.0±.2	0.0	0.0±.2		
1.0 PFE	K_n/1000										
0.3 PFE	P_{CAL}										
0.1 PFE	PFE_c	0.8	1.0	1.0	1.4	1.2	1.5	1.7	1.8		
3.0 MV	$P/2\pi$	23	29	49	55	23	29	47	50		
DRIFT	MCF	34	34	20	26	51	52	36	36		
S. P.		-10.0				-7.6					
NOISE						15.1 (Filter on 3.0)					
POT RES.						2.3	+0.3				
CULT & CMTS						0.0					

I. P. RECEIVER NOTES, JOB NO. 896, AREA Pinal Clm Grp

LINE 116W, HALF S, SR. 1, a = 1000', BEARING S

SENDER STA. 5S = ELECTRODE NO. 3, DATE 5 Feb 74

HEINRICHS GEOEX

SEND	4-5	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5
RECEIVE	5S-15S	15S	25S	25S		35S	35S			45S
MULTIPLIER	1.0	1.0	1.0	1.0	1.0	1.0	10	1.0	1.0	0.1
PFE	1.6	1.6	1.8	1.2	1.6	1.8	1.4	1.6	1.9	2.2
CUR. (AMPS)	5.0									5.0
POINT NO.										
SEP. (n)	1	1	2	1	2	3	1	2	3	4
H. F. MV	73.6	81.5	30.3	108.1	31.0	15.3	141.0	41.2	15.5	8.74
DRIFT	0.0	0.0	0.0	-0.2	0.0	-0.1	0.0	0.0	0.0	0.0±.2
k.0 PFE K_n/1000										
0.3 PFE P_{CAL}										
0.1 PFE PFE_C	1.3	1.3	1.5	0.0	1.3	1.5	1.1	1.3	1.6	1.9
3.0 MV $P/2\pi$	44	49	73	65	74	92	85	99	93	105
DRIFT MCF	29	27	21	##15	17	16	13	13	17	18
S. P.	-18.0	+22.5		+3.0			+21.6			
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 896, AREA Pinal Clm Grp

LINE 116W, HALF S, SR 1, a = 1000', BEARING S

SENDER STA. _____ = ELECTRODE NO. _____, DATE 5 Feb 74

HEINRICHS GEOEX

SEND		1-2	2-3	3-4	4-5	1-2	2-3	3-4	4-5		
RECEIVE		455			555	555			655		
MULTIPLIER		1.0	1.0	0.1	0.1	1.0	1.0	0.1	0.1		
PFE		1.7	1.9	2.3	2.6	1.8	2.2	2.6	2.8 2.0 2.9		
CUR. (AMPS)		5.0							5.0		
POINT NO.											
SEP. (n)		2	3	4	5	3	4	5	6		
H. F. MV		55.1	24.7	10.43	6.30	22.6	12.0	5.46	3.49		
DRIFT		0.0	0.0	0.0	0.0	0.0	0.0	0.0±.2	±.4		
1.0 PFE	K_n/1000										
0.3 PFE	P_{CAL}										
0.1 PFE	PFE_C	1.4	1.6	2.0	2.3	1.5	1.9	2.3	2.5		
3.0 MV	$P/2\pi$	132	148	125	132	136	144	115	117		
DRIFT	MCF	11	11	16	17	11	13	20	21		
S. P.		+3.0				+11.2					
NOISE											
POT RES.											
CULT & CMTS											

I. P. SENDER NOTES

JOB No. 896 AREA Final Claim Group

LINE 116 W, HALF N, SP. 1/10000', DATE 2-5-74

PAGE 1

HEINRICHS GEOEX

SEND	1-2	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2
RECEIVE	5S-5N	5N———	5N	5N	———	2SN	2S	———	———	3SN
RANGE	166x30	166x30	166x30	166x30	166x30	166x30	166x30	———	———	———
VOLTAGE	900	490	900	440	490	900	780	440	490	900
CURRENT	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0
SEND	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2		
RECEIVE	3S———	———	———	4SN	4S———	———	———	5SN		
RANGE	166x30	———	———	———	———	———	———	———		
VOLTAGE	980	440	480	900	780	440	480	900		
CURRENT	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0		

FREQUENCIES 1,0 & 0,1

SENDER No. 8661

OPERATOR RCP

RECEIVER No. D,D

OPERATOR Dolf A

COMMENTS:

7,87 1,6 3,89 1,5

3,09 1,9 1,51 2,3

4

I. P. SENDER NOTES

JOB No. 896 AREA Final Claim Group

LINE 11 6W, HALF S, SP. 1/1000', DATE 2-5-74

PAGE 2

HEINRICHS GEOEX

SEND	4-5	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5
RECEIVE	55-155	15 —	255	25 —		355	35 —			455
RANGE	166x30 —									
VOLTAGE	740	420	740	460	420	740	830	460	420	740
CURRENT	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
SEND	1-2	2-3	3-4	4-5	1-2	2-3	3-4	4-5		
RECEIVE	45 —			555	55 —			655		
RANGE	166x30 —									
VOLTAGE	830	460	420	740	830	460	420	740		
CURRENT	5.1	5.0	5.0	5.0	5.0	5.0	5.0	5.0		

FREQUENCIES 1.0 & 0.1

SENDER No. 8661

OPERATOR RCP

RECEIVER No. DD

OPERATOR Doliffe

COMMENTS:

I. P. RECEIVER NOTES, JOB No. 896, AREA Pinal Clm Grp

LINE 86W, HALF N, SR. 1, a = 1000', BEARING N

SENDER STA. 00 = ELECTRODE No. 3, DATE 28 Jan 74

HEINRICHS GEOEX

SEND		1-2	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2
RECEIVE		0-10N	10N	20N	20N		30N	30N			40N
MULTIPLIER		10	10	1.0	10	1.0	1.0	1.0	1.0	1.0	0.1
PFE		2.3	2.1	3.3	1.2	2.5	3.7	1.3	1.9	3.2	4.0
CUR. (AMPS)		4	5	4	6	5	4	6	6	5	4
POINT NO.		3	3	12	3	12	30	3	12	30	60
SEP. (n)											
H. F. MV		117.0	178.0	40.1	167.0	46.1	14.7	80.1	28.3	11.7	4.89
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	1.2	1.0	1.8	0.7	1.4	2.1	0.8	1.1	1.9	2.3
0.3 PFE	P_{CAL}	2.1	2.1	2.9	1.0	2.1	3.1	1.0	1.5	2.5	3.3
0.1 PFE	PFE_C										
3.0 MV	P/2π	89	108	122	~~338~~ 84	112	111	40	57	71	74
DRIFT	MCF										
S. P.		+14.0	+26.0		-6.9			+24.0			
NOISE											
POT RES.		16K	3K		4K			3.5K			
CULT & CMTS											

CAL 99.1
+0.1 - 1HZ
+0.1 - .3HZ

I. P. RECEIVER NOTES, JOB NO. 896, AREA Pinal Clm Grp

LINE 86W, HALF N, SP. 1, a = 1000', BEARING N

SENDER STA. 00 = ELECTRODE NO. 3, DATE 28 & 29 Jan 74

PAGE 2

HEINRICHS GEOEX

SEND		4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2	~~4-5~~	~~3-4~~
RECEIVE		40N			50N	50N			60N	~~60N~~	~~70N~~
MULTIPLIER		1.0	0.1	0.1	0.1	1.0	0.1	0.1	0.1	1Hz & .1Hz	
PFE		1.9	2.5	3.7	4.82	2.6	3.2	4.3	4.4	5.1 – 5.7	
CUR. (AMPS)		6	6	5	4	6	6	5	4.1 – 4.7 4	4.	
POINT NO.		12	30	60	105	30	60	105	168	168	
SEP. (n)											
H. F. MV		22.7	10.05	5.24	2.60	12.1	6.12	3.61	1.96	201	
DRIFT		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1.0 PFE	K_n/1000	1.1	1.4	2.2	2.5	1.6	1.8	2.5	2.9		
0.3 PFE	P_{CAL}	1.5	2.1	2.9	3.3	1.9	2.7	3.4	2.9	2.0	
0.1 PFE	PFE_C										
3.0 MV	$P/2\pi$	46	51	64	69	61	62	77	83	(85)	
DRIFT	MCF										
S. P.		-7.5				+46.0					
NOISE											
POT RES.		3K				5K					
CULT & CMTS											

I. P. RECEIVER NOTES, JOB NO. 896, AREA Pinal Clm Grp

LINE 86W, HALF S, SR. 1, a = 1000', BEARING S

SENDER STA. 00 = ELECTRODE NO. 3, DATE 29 Jan 74

HEINRICHS GEOEX

SEND	4-5	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5
RECEIVE	0-10S	10S —	20S	20S —		30S	30S			40S
MULTIPLIER	10	10	1.0	10	1.0	1.0	10	1.0	1.0	1.0
PFE	2.0	2.3	3.3	2.1	3.3	3.9	1.3	2.6	3.7	4.1
CUR. (AMPS)	6	5	6	5	5	6	4	5	5	6
POINT NO.	3	3	12	3	12	30	3	12	30	60
SEP. (n)										
H. F. MV	215.0	147.0	60.8	127.0	32.9	21.3	130.0	40.8	15.6	12.1
DRIFT	+0.2	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 $P/2\pi$	109	89	123	77	80	108	99	99	95	122
DRIFT MCF										
S. P.	+33.8	+18.0		+3.0			+26.0			
NOISE										
POT RES.	5K	5K		5K			7K			
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 896, AREA Pinal Clm Grp

LINE 86W, HALF S, SR. 1, a = 1000', BEARING S

SENDER STA. _____ = ELECTRODE NO. _____, DATE 29 Jan 74

HEINRICHS GEOEX

SEND		1-2	2-3	3-4	4-5	1-2	2-3	3-4	4-5	4-5	
RECEIVE		4 0 5			6 0 5	6 0 5			6 0 5		
MULTIPLIER		1.0	1.0	0.1	0.1	1.0	0.1	0.1	0.1	14.1 Hz	
PFE		2.1	3.2	4.1	4.6	2.7	3.7	4.5	4.9	3.1-3.4	
CUR. (AMPS)		4	5	5	6	4	5	5	6	6	
POINT NO.		12	30	60	105	30	60	105	168	168	
SEP. (n)											
H. F. MV		33.8	18.3	8.13	7.06	15.8	10.74	5.58	5.34	5.51	
DRIFT		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1.0 PFE	K_n/1000								3.0		
0.3 PFE	P_{CAL}										
0.1 PFE	PFE_C										
3.0 MV	$P/2\pi$	102	111	99	125	120	130	118	151	(56)	
DRIFT	MCF										
S. P.		+1.0				+7.0					
NOISE											
POT RES.		5.5K				5.5K					
CULT & CMTS											

I.P. SENDER NOTES

JOB No. 896 AREA Pinal Claim Group

LINE 86 W, HALF N, SP. 1, DATE 1-28-74

1000'

PAGE X 1

HEINRICHS GEOEX

SEND	1-2	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2
RECEIVE	10-10N	10 ——→	20N	20 ———		30N	30 ———			40N
RANGE	20X200	50X100	20X200	20X300	50X100	20X200	20X300	20X300	50X100	20X200
VOLTAGE	760	780	760	740	770	760	560	740	780	750
CURRENT	4.0	5.0	4.0	6.0	5.0	4.0	6.0	6.0	5.0	4.0
SEND	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2		
RECEIVE	40 ———			50N	50 ———			60N		
RANGE	20X300	20X300	50X100	20X200	20X300	20X300	50X100	20X200		
VOLTAGE	550	730	760	740	590	780	800	800		
CURRENT	6.0	6.0	5.0	4.0	6.0	6.0	5.0	4.0		

FREQUENCIES 3.0; 1.0 40.3

SENDER No. 26721

OPERATOR RCP

RECEIVER No. 34726

OPERATOR Col. Tite

COMMENTS: 1.0 = cal.

I.P. SENDER NOTES

JOB No. 896 AREA Final Claim Group

LINE 86 W, HALF 5, SP. 1/1000, DATE 1-29-74

PAGE 2

HEINRICHS GEOEX

SEND	4-5	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5
RECEIVE	0-10 S	10 →	20 S	20 →	→	30 S	30 →	→	→	40 S
RANGE	20x300	60x100	20x300	50x100	50x100	20x300	20x200	50x100	50x100	20x300
VOLTAGE	580	640	580	790	640	580	780	780	630	580
CURRENT	6.0	5.0	6.0	5.0	5.0	6.0	4.0	5.0	5.0	6.0
SEND	1-2	2-3	3-4	4-5	1-2	2-3	3-4	4-5		
RECEIVE	40 →	→	→	50 S	50 →	→	→	60 S		
RANGE	20x200	50x100	50x100	20x300	20x200	50x100	50x100	20x300		
VOLTAGE	770	780	620	570	770	780	620	570		
CURRENT	4.0	5.0	5.0	6.0	4.0	5.0	5.0	6.0		

FREQUENCIES 3.0 & 0.3

SENDER No. 26721

OPERATOR RCP

RECEIVER No. 34726

OPERATOR Sol. Ho

COMMENTS:

Cal = 1.0

I. P. RECEIVER NOTES, JOB NO. 869, AREA Pinal Clm Grp

LINE 76W, HALF N, SR. 1, a = 1000', BEARING

SENDER STA. 5N = ELECTRODE NO. B, DATE 1-30-74

PAGE 1

HEINRICHS GEOEX

SEND	1-2	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2
RECEIVE	0-15N	15N-25N	25N-25N			35N	35N			45N
MULTIPLIER	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	0.1
PFE	2.5	2.1	3.3	1.5	2.7	3.6	1.2	1.6	2.8	2.9 (2.5-3.3)
CUR. (AMPS)	2.0	5								5
POINT NO.										
SEP. (n)	1	1	2	1	2	3	1	2	3	4
H. F. MV	41.4	103.0	46.5	73.5	19.4	13.2	61.1	19.3	7.36	6.02
DRIFT	—	—	+0.1	+0.1	-0.1	+0.2	—	—	+0.1	—
1.0 PFE K_n/1000										
0.3 PFE P_{CAL}										
0.1 PFE PFE_c	2.6	2.2	3.4	1.6	2.8	3.6	1.3	1.7	2.9	3.0
3.0 MV $P/2\pi$	62	62	112	44	47	79	37	46	44	72 (+3)
DRIFT MCF	42	36	30	36	60	45	35	37	66	2.5-3.8
S. P.	+33.1	+13.0		+14.9			+54.0			
NOISE										
POT RES.	3	5		2			3			
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 896, AREA Pinal Clm Grp

LINE 76W, HALF N, SR. 1, a = 1000', BEARING N

SENDER STA. 5N/N = ELECTRODE NO. 3, DATE 1-30-74

HEINRICHS GEOEX

SEND		4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2		Cal
RECEIVE		45N	—	—	55N	55N	—	—	65N		
MULTIPLIER		1.0	0.1	0.1	0.1	1.0	0.1	0.1	0.1		1.0
PFE		1.4	1.7	2.8	3.1	1.5	2.0	2.6	3.1		-0.1
CUR. (AMPS)		5	5	5	5.5	5	5.5	5	5.5		1.0
POINT NO.											
SEP. (n)											
H. F. MV		23.4	9.79	4.71	4.79	10.7	5.53	2.89	3.21		991
DRIFT		+0.1	—	—	—	—	—	+0.1	—		—
1.0 PFE	K_n/1000										
0.3 PFE	P_{CAL}										
0.1 PFE	PFE_c	1.5	1.8	2.9	3.2	1.6	2.1	2.7	3.2		
3.0 MV	$P/2\pi$	56	59	57	111	64	60	61	98		
DRIFT	MCF	27	31	51	29	25	35	44	33		
S. P.		0.0				+2.4					
NOISE											
POT RES.		2				2					
CULT & CMTS											

I. P. RECEIVER NOTES, JOB NO. 896, AREA Pinal Clm Exp

LINE 76W, HALF S, SR. 1, a = 1000', BEARING S

SENDER STA. 5N = ELECTRODE NO. 3, DATE 1-31-74

HEINRICHS GEOEX

SEND		~~4-5~~	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5
RECEIVE		5N-5S	5S	1S	1S		2S	2S			3S
MULTIPLIER		1.0	(10) 1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
PFE		(2.0) 2.4	(5.4) 2.8	3.5	2.5	3.4	4.2	2.0	2.9	3.6	3.9
CUR. (AMPS)		3	5	3	5	5	4	4	5	5	4
POINT NO.											
SEP. (n)		(60.2	1	2	1	2	3	1	2	3	4
H. F. MV		(59.9) 7	(107) 103	28.0	13.7	29.2	16.0	13.4	34.7	14.7	10.2
DRIFT		(-) —	(+8) —	—	—	—	+0.2	+0.1	—	+0.1	—
1.0 PFE	K_n/1000										
0.3 PFE	P_{CAL}		≈(10)								
0.1 PFE	PFE_c	2.2	2.6	3.3	2.3	3.2	3.9	1.8	2.7	3.4	3.7
3.0 MV	P/2π	60	(100) 62	112	82	70	120	101	83	88	153
DRIFT	MCF	37	42	29	28	46	33	18	32	39	3.4-4.2
S. P.		+22.8	+38.2		+21.9			+11.5			24
NOISE											
POT RES.		5	4								
CULT & CMTS											

( ) Nor. Rec. - no good!

I. P. RECEIVER NOTES, JOB NO. 896, AREA Pinal Clm Exp — PAGE 4

LINE 76W, HALF 5, SP. 1, a = 1000', BEARING 5

SENDER STA. _____ = ELECTRODE NO. _____, DATE _____

HEINRICHS GEOEX

D.D.

SEND		1-2	2-3	3-4	4-5	1-2	2-3	3-4	4-5	Cal	Cal
RECEIVE		355	—	—	455	455	—	—	555	1-31-74	1-31-74
MULTIPLIER		1.0	1.0	0.1	0.1	1.0	0.1	0.1	0.1	1.0	1.0
PFE		2.4	2.7	3.2	3.2	2.6	2.9	3.4	3.5	+0.2	-0.1
CUR. (AMPS)		4	5	5	5	5	5	5	5	1.0	1.0
POINT NO.											
SEP. (n)		2	3	4	5	3	4	5	6		
H. F. MV		32.9	13.3	7.66	7.31	14.3	5.82	3.46	3.41	101.8	98.6
DRIFT		—	-0.3	—	—	—	—	—	—	—	—
1.0 PFE	K_n/1000										NOR
0.3 PFE	ρ_{CAL}										
0.1 PFE	PFE_C	2.2	2.6	3.0	3.0	2.4	2.7	3.2	3.3		
3.0 MV	$\rho/2\pi$	99	80	92	154	86	70	73	115		
DRIFT	MCF	22	33	33	20	28	39	44	29		
S. P.		+19.5				+8.6					
NOISE			>3-4MV. spikes								
POT RES.											
CULT & CMTS											

I.P. SENDER NOTES

JOB No. 896 AREA Pinal Clm Grp

LINE 76W, HALF N, SP. 1/1000', DATE 30 Jan 74

HEINRICHS GEOEX

SEND	1-2	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2
RECEIVE	~~1~~5N	15N	25N	25N		35N	35N			45N
RANGE				50x100	→	→	50x100	→	→	→
VOLTAGE	440	890	700	680	780	660	700	670	770	660
CURRENT	2	5	5	5	5	5	5	5	5	5
SEND	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2		
RECEIVE	45N	→	→	55N	55N	→	→	65N		
RANGE	50x100	→	→	110x50	50x100	50x110	50x100	50x110		
VOLTAGE	700	670	750	710	700	720	750	710		
CURRENT	5	5	5	5.5	5	5.5	5	5.5		

FREQUENCIES 1.0 ± 0.1

SENDER No. 26721-S

OPERATOR R. J.

RECEIVER No.

OPERATOR R. R.

COMMENTS:

I.P. SENDER NOTES

JOB NO. 896 AREA Pinal Clm Grp

LINE 76W, HALF ~~E~~S, SP. 1, DATE 31 Jan 74

PAGE 2

HEINRICHS GEOEX

SEND	4-5	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5
RECEIVE	~~5-6~~ S	~~1~~5S	~~2~~5S	25S	~	25S	25S	~	~	35S
RANGE			300X10							
VOLTAGE	440	690	~~440~~	790	680	560	530	780	680	560
CURRENT	3	5	3.0	5	5	4	4	5	5	4
SEND	1-2	2-3	3-4	4-5	1-2	2-3	3-4	4-5		
RECEIVE	35S	~	~	45S	45S	~	~	55S		
RANGE				500X10	500X10	~	~	→		
VOLTAGE	530	770	670	700	660	770	670	700		
CURRENT	4	5	5.0	5	5	5	5	5		

FREQUENCIES 1.0 & 0.1

SENDER NO. 26721-5

OPERATOR R. J.

RECEIVER NO. D.R

OPERATOR R. P.

COMMENTS:

I. P. RECEIVER NOTES, JOB No. 896, AREA Pinal Clm Grp

LINE 116W, HALF N, SR. 2, a = 500', BEARING N

SENDER STA. 55 = ELECTRODE No. 4, DATE 5 Feb 74

HEINRICHS GEOEX

SEND	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	CAL
RECEIVE	55	0	0		5N	5N			10N	
MULTIPLIER	10	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	
PFE	1.2	1.2	1.5	1.4	1.5	1.4	1.5	1.5	1.5	+0.3
CUR. (AMPS)	5								5	
POINT NO.										
SEP. (n)	1	2	1	2	3	1	2	3	4	
H. F. MV	121.0	32.0	75.9	31.4	12.3	74.8	24.8	17.4	8.01	1.012
DRIFT	0.0	-0.2	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 ρ_{CAL}										
0.1 PFE PFE_C	0.9	1.0	1.2	1.1	1.2	1.1	1.2	1.2	1.2	
3.0 MV $\rho/2\pi$	36	38	23	38	37	22	30	52	48	
DRIFT MCF	25	26	53	29	33	49	40	23	25	
S. P.	~~+10.0~~ -18.0		-21.0			±0.0				
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 896, AREA Pinal Clm Grp

LINE 116W, HALF W, SP. 2, a = 500', BEARING N

SENDER STA. _____ = ELECTRODE NO. _____, DATE 5 Feb 74

HEINRICHS GEOEX

SEND	5-6	4-5	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3
RECEIVE	10N	←	←	←	15N	15N	←	←	←	→
MULTIPLIER	1.0	1.0	1.0	1.0	0.1	1.0	1.0	1.0	1.0	0.1
PFE	1.3	1.6	1.6	1.5	1.6	1.2	1.2	1.3	1.4	1.3
CUR. (AMPS)	5	←	←	←	←	←	←	←	←	5
POINT NO.										
SEP. (n)	1	2	3	4	5	1	2	3	4	5
H. F. MV	63.3	28.9	17.0	14.0	6.92	71.9	23.1	17.0	11.5	10.12
DRIFT	0.0	0.0	0.0	0.0±.2	0.0±.2	0.0	0.0	0.0	0.0	0.0
1.0 PFE K_n/1000										
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_C	1.0	1.3	1.3	1.2	1.3	0.9	0.9	1.0	1.1	1.0
3.0 MV $P/2\pi$	19	35	51	84	73	22	28	51	69	106
DRIFT MCF	53	37	25	14	18	42	32	20	16	9.4
S. P.	-6.0					-1.7				
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 896, AREA Pinal Clm Grp

LINE 116W, HALF N, SR. 2, a = 500', BEARING N

SENDER STA. _____ = ELECTRODE No. _____, DATE 5 Feb 74

HEINRICHS GEOEX

SEND	1-2	6-7	5-6	4-5	3-4	2-3				
RECEIVE	20N	20N	———	———	———	25N				
MULTIPLIER	0.1	1.0	1.0	0.1	0.1	0.1				
PFE	1.5	1.2	1.2	1.3	1.4	1.4				
CUR. (AMPS)	5	———	———	———	———	5				
POINT NO.										
SEP. (n)	6	2	3	4	5	6				
H. F. MV	5.15	24.7	11.8	10.17	7.38	6.69				
DRIFT	0.0±.2	0.0	0.0	0.0	0.0±.2	0.0±.2				
1.0 PFE K_n/1000										
0.3 PFE P_{CAL}										
0.1 PFE PFE_c	1.2	0.9	0.9	1.0	1.1	1.1				
3.0 MV $P/2\pi$	87	30	35	61	77	112				
DRIFT MCF	14	30	25	16	14	9.8				
S. P.		-5.5								
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 896, AREA Pinal Clm Exp

LINE 116W, HALF N, SR. 2, a = 500', BEARING N

SENDER STA. _____ = ELECTRODE No. _____, DATE 5 Feb 74

HEINRICHS GEOEX

SEND		6-7	5-6	4-5	3-4	6-7	5-6	4-5			
RECEIVE		25N	~	~	30N	30N	~	35N			
MULTIPLIER		1.0	0.1	0.1	0.1	0.1	0.1	0.1			
PFE		1.2	1.2	1.4	1.5	0.9	1.1	1.3			
CUR. (AMPS)		5	~	~	~	~	~	5			
POINT No.											
SEP. (n)		3	4	5	6	4	5	6			
H. F. MV		12.9	7.43	6.91	5.23	4.63	2.92	2.86			
DRIFT		0.0	0.0	0.0	0.0	0.0	0.0±.2	0.0±.2			
1.0 PFE	K_n/1000										
0.3 PFE	P_{CAL}										
0.1 PFE	PFE_c	0.9	0.9	1.1	1.2	0.6	0.8	1.0			
3.0 MV	$P/2\pi$	39	45	73	88	28	31	48			
DRIFT	MCF	23	20	15	14	22	26	21			
S. P.		-10.0				-1.2					
NOISE											
POT RES.											
CULT & CMTS											

I. P. RECEIVER NOTES, JOB NO. 896, AREA Pinal Clm Grp

LINE 116W, HALF 5, SR. 2, a = 500', BEARING S

SENDER STA. _____ = ELECTRODE NO. _____, DATE 6 Feb 74

HEINRICHS GEOEX

SEND	—	—	3-4	4-5	5-6	6-7				
RECEIVE	5S-10S	10S-15S	15S	———	———	20S				
MULTIPLIER			1.0	1.0	1.0	0.0				
PFE			1.0	1.4	1.5	1.5				
CUR. (AMPS)			5	———	———	5				
POINT NO.										
SEP. (n)			1	2	3	4				
H. F. MV			105.6	32.5	12.8	8.13				
DRIFT			0.0	0.0	0.0	0.0				
1.0 PFE K_n/1000										
0.3 PFE P_{CAL}										
0.1 PFE PFE_C			0.7	1.1	1.2	1.2				
3.0 MV $P/2\pi$			32	39	38	49				
DRIFT MCF			22	28	31	25				
S. P.	-12.0	+12.0	+45.6							
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 896, AREA Pinal Clm Grp

LINE 116W, HALF S, SR 2, a = 500', BEARING S

SENDER STA. _____ = ELECTRODE NO. _____, DATE 6 Feb 74

HEINRICHS GEOEX

SEND		2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5	5-6
RECEIVE		20S	←	←	←	25S	25S	←	←	←	→
MULTIPLIER		10	1.0	1.0	1.0	0.1	10	1.0	1.0	1.0	0.1
PFE		1.1	1.4	1.6	1.87	1.7	1.1	1.1	1.3 (1.1 / 1.5)	1.6 + 1.9 (1.2 / 2.0)	1.6 (1.4 / 2.0)
CUR. (AMPS)		5	←	←	←	←	←	←	←	←	5
POINT NO.											
SEP. (n)		1	2	3	4	5	1	2	3	4	5
H. F. MV		183.0	48.0	24.3	11.4	7.90	126.0	50.1	21.0	12.4	6.39
DRIFT		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 ± .2	0.0 ± .2	0.0
1.0 PFE	K_n/1000										
0.3 PFE	P_{CAL}										
0.1 PFE	PFE_C	0.8	1.1	1.3	1.4	1.4	0.8	0.8	1.0	1.6 1.3	1.3
3.0 MV	P/2π	55	58	73	68	83	38	60	63	74	67
DRIFT	MCF	15	19	18	20	17	21	13	16	22 18	19
S. P.		-5.0					+24.0				
NOISE											
POT RES.											
CULT & CMTS											

I: P. RECEIVER NOTES, JOB NO. 896, AREA Pinal Clm Grp

LINE 116W, HALF S, SR. 2, a = 500', BEARING S

SENDER STA. _____ = ELECTRODE NO. _____, DATE 6 Feb 74

HEINRICHS GEOEX

SEND		6-7	1-2	2-3	3-4	4-5	5-6			
RECEIVE		305	305	—	—	—	355			
MULTIPLIER		0.1	1.0	1.0	1.0	0.1	0.1			
PFE		1.7	1.3	1.3	1.5	1.6	1.7			
CUR. (AMPS)		5	—	—	—	—	5			
POINT NO.										
SEP. (n)		6	2	3	4	5	6			
H. F. MV		4.63	36.0	24.0	12.1	7.83	4.20			
DRIFT		0.0±.2	+0.1	0.0	0.0	0.0	0.0			
1.0 PFE	K_n/1000									
0.3 PFE	ρ_{CAL}									
0.1 PFE	PFE_c	1.4	1.0	1.0	1.2	1.3	1.4			
3.0 MV	$\rho/2\pi$	78	43	72	73	82	71			
DRIFT	MCF	18	23	14	17	16	20			
S. P.			−7.0							
NOISE										
POT RES.										
CULT & CMTS										

I.P. RECEIVER NOTES, JOB NO. 796, AREA Pinal Clm Gry

LINE 116W, HALF S, SR. 2, a = 500', BEARING S

SENDER STA. _____ = ELECTRODE NO. _____, DATE 5 Feb 74

PAGE 8

HEINRICHS GEOEX

SEND	1-2	2-3	3-4	4-5	1-2	2-3	3-4			
RECEIVE	353	———	———	405	405	———	455			
MULTIPLIER	1.0	1.0	0.1	0.1	1.0	0.1	0.1			
PFE	1.4	1.4	1.5	1.8	1.4	1.5	1.8			
CUR. (AMPS)	5	———	———	———	———	———	5			
POINT NO.										
SEP. (n)	3	4	5	6	4	5	6			
H.F. MV	18.7	15.0	8.26	5.54	12.2	10.79	6.12			
DRIFT	0.0	0.0	0.0	0.0+2	0.0	0.0	0.0			
1.0 PFE K_n/1000										
0.3 PFE P_{CAL}										
0.1 PFE PFE_c	1.1	1.1	1.2	1.5	1.1	1.2	1.5			
3.0 MV $P/2\pi$	56	90	87	93	73	113	103			
DRIFT MCF	20	12	14	16	15	11	15			
S.P.	~~+5.0~~				±5.0					
NOISE	+13.5									
POT RES.										
CULT & CMTS										

I.P. SENDER NOTES

JOB No. 896 AREA Pinal Claim Group

LINE 116W, HALF N, SP. 2 (500'), DATE 2-5-74

PAGE 1

HEINRICHS GEOEX

SEND	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	
RECEIVE	5S	0	0		5N	5			10N	
RANGE	166x30					166x30				
VOLTAGE	460	480	420	460	480	380	420	460	480	
CURRENT	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	
SEND	5-6	4-5	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3
RECEIVE	10				15N	15N				
RANGE	166x30					166x30				
VOLTAGE	380	380	420	460	490	500	380	380	420	460
CURRENT	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0

FREQUENCIES 1.0 & 0.1

SENDER No. 8661

OPERATOR RCP

RECEIVER No. D.D.

OPERATOR Jaliffe

COMMENTS:

I.P. SENDER NOTES

JOB No. 896 AREA Pinal Claim Group

LINE 116 W, HALF N, SP. 2 (500'), DATE 2-5-74

HEINRICHS GEOEX

SEND	1-2	6-7	5-6	4-5	3-4	2-3				
RECEIVE	20N	20	—	—	—	25N				
RANGE	166x30	166x30	—	—	—	—				
VOLTAGE	500	500	380	380	420	460				
CURRENT	5.0	5.0	5.0	5.0	5.0	5.0				
SEND	6-7	5-6	4-5	3-4	6-7	5-6	4-5			
RECEIVE	25	—	—	30N	30	—	35N			
RANGE	166x30	—	—	—	166x30	—	—			
VOLTAGE	500	380	380	420	510	380	380			
CURRENT	5.0	5.0	5.0	5.0	5.0	5.0	5.0			

FREQUENCIES 1.0 & 0.1

SENDER No. 8661

OPERATOR R C P

RECEIVER No. A.D.

OPERATOR Jolliffe

COMMENTS:

I.P. SENDER NOTES

JOB No. 896 AREA Final Claim Group

LINE 116W, HALF 5, SP. 2 (500'), DATE 2-6-74

PAGE 3

HEINRICHS GEOEX

SEND	—	—	3-4	4-5	5-6	6-7				
RECEIVE			15			20 S				
RANGE			166x30							
VOLTAGE			430	380	380	500				
CURRENT			5.0	5.0	5.0	5.0				
SEND	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5	5-6
RECEIVE	20				25 S	25				
RANGE	166x30									
VOLTAGE	480	430	380	380	500	500	480	430	380	380
CURRENT	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0

FREQUENCIES 1.0 4 0.1

SENDER No. 8661

OPERATOR R C P

RECEIVER No. D. D.

OPERATOR Doliffe

COMMENTS:

I.P. SENDER NOTES

JOB No. 896 AREA Final Claim Group

LINE 116 W, HALF 5, SP. 2 (5001), DATE 2-5-74

PAGE 4

HEINRICHS GEOEX

SEND	6-7	1-2	2-3	3-4	4-5	5-6				
RECEIVE	-305	30	←	←	←	355				
RANGE	166x30	←	←	←	←	←				
VOLTAGE	500	500	480	430	380	380				
CURRENT	5.0	5.0	5.0	5.0	5.0	5.0				
SEND	1-2	2-3	3-4	4-5	1-2	2-3	3-4			
RECEIVE	35	←	←	405	40	←	455			
RANGE	166x30	←	←	←	←	←	←			
VOLTAGE	460	440	400	350	480	440	400			
CURRENT	5.0	5.0	5.0	5.0	5.0	5.0	5.0			

FREQUENCIES 1.0 & 0.1

SENDER No. 8661

OPERATOR RCP

RECEIVER No. D.D.

OPERATOR Dolittle

COMMENTS:

I. P. RECEIVER NOTES, JOB NO. 896, AREA Pinal Clm Grp

LINE 906W, HALF N, SR. 2, a = 5001, BEARING N

SENDER STA. _____ = ELECTRODE NO. _____, DATE 7 Feb 74

HEINRICHS GEOEX

SEND	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	CAL
RECEIVE	5S	0	0		5N	5N			~~10N~~	
MULTIPLIER	10	1.0	10	1.0	1.0	10	1.0	1.0	0.1	
PFE	1.4	1.6	1.3	1.5	1.7	1.4	1.4	1.7	1.7	+0.3
CUR. (AMPS)	3	3	3	3	3	5	3	3	3	1.0
POINT NO.										
SEP. (n)	1	2	1	2	3	1	2	3	4	
H. F. MV	125.0	42.2	112.5	41.8	21.0	124.0	26.3	14.1	8.47	102.3
DRIFT	0.0	0.0	0.0	−0.2	0.0	+0.2	0.0	00±.2	0.0	0.0.
1.0 PFE K_n/1000										
0.3 PFE P_{CAL}										
0.1 PFE PFE_c	1.1	1.3	1.0	1.3	1.4	1.0	1.1	1.4	1.4	
3.0 MV $P/2\pi$	63	84	56	84	105	37	53	71	85	
DRIFT MCF	18	15	18	16	13	27	21	20	17	
S. P.	−48.0		+44.0			−6.0				
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 896, AREA Pinal Clm Grp

LINE 106W, HALF N, SR. 2, a = 500', BEARING S N

SENDER STA. _____ = ELECTRODE NO. _____, DATE 7 Feb 74

HEINRICHS GEOEX

SEND	5-6	4-5	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3
RECEIVE	10N	←	←	←	15N	15N	→	→	→	→
MULTIPLIER	1.0	1.0	1.0	0.1	0.1	1.0	1.0	1.0	0.1	0.1
PFE	1.5	1.6	1.7	1.8	1.5 1.8? 2.1	1.3	~~+5~~ 1.3	1.5	1.6	1.7
CUR. (AMPS)	5	5	3	3	3	5	5	5	3	3
POINT NO.										
SEP. (n)	1	2	3	4	5	1	~~42.8~~ 2	3	4	5
H. F. MV	90.8	35.4	11.9	7.93	5.21	86.6	~~51.3~~ 9.0	24.1	10.10	7.29
DRIFT	0.0	0.0	0.0	−0.2±.2	0.0	0.0	~~+0.2~~	0.0	0.0	0.0
1.0 PFE K_n/1000										
0.3 PFE P_{CAL}										
0.1 PFE PFE_c	1.2	1.3	1.4	1.6	1.5	1.0	1.0	1.2	1.3	1.4
3.0 MV $P/2\pi$	27	42	60	79	91	26	53	72	101	128
DRIFT MCF	44	31	24	20	16	38	19	17	13	11
S. P.	−65.4					+28.2				
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 896, AREA Pinal Clm Grp

LINE 106W, HALF N, SR. 2, a = 500', BEARING N

SENDER STA. _____ = ELECTRODE NO. _____, DATE 6 Feb 74

HEINRICHS GEOEX

SEND	1-2	6-7	5-6	4-5	3-4	2-3				
RECEIVE	← 20N	20N	———	———	———	25N				
MULTIPLIER	0.1	1.0	1.0	1.0	0.1	0.1				
PFE	1.7	1.1	1.2	1.4	1.4	1.8				
CUR. (AMPS)	3	5	5	5	4	4				
POINT NO.										
SEP. (n)	6	2	3	4	5	6				
H. F. MV	5.06	41.1	27.4	16.9	10.15	7.58				
DRIFT	0.0±.2	0.0	0.0±.2	0.0	0.0±.2	0.0±.2				
1.0 PFE K_n/1000										
0.3 PFE P_{CAL}										
0.1 PFE PFE_C	1.4	0.8	0.9	1.1	1.1	1.5				
3.0 MV $P/2\pi$	142	49	82	101	133	159				
DRIFT MCF	9.9	16	11	11	8.3	9.4				
S. P.		−12.0								
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 896, AREA Piñal Clm Grp

LINE 106W, HALF N, SR. 2, a = 500', BEARING N

SENDER STA. _____ = ELECTRODE No. _____, DATE 6 Feb 74

HEINRICHS GEOEX

SEND	6-7	5-6	4-5	3-4	6-7	5-6	4-5			
RECEIVE	25N	———	———	30N	30N	———	35N			
MULTIPLIER	1.0	0.1	0.1	0.1	0.1	0.1	0.1			
PFE	1.2	1.2	1.3	1.4	1.2	1.2	1.4			
CUR. (AMPS)	5	5	5	4	5	5	5			
POINT NO.										
SEP. (n)	3	4	5	4.24	4	5	6			
H. F. MV	13.1	10.08	6.68	~~4.83~~	8.34	6.88	4.83			
DRIFT	0.0±.2	0.0	0.0±.2	0.0±.2	0.0	0.0	0.0±.2			
1.0 PFE K_n/1000										
0.3 PFE P_{CAL}										
0.1 PFE PFE_c	0.9	0.9	1.0	1.1	0.9	0.9	1.1			
3.0 MV $P/2\pi$	39	60	70	89	50	72	81			
DRIFT MCF	23	15	14	12	18	12	14			
S. P.	+14.0				-5.0					
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 896, AREA Pinal Clm Grp

LINE 106W, HALF S, SR. 2, a = 500', BEARING S

SENDER STA. 55 = ELECTRODE NO. 4, DATE 2-7-74

HEINRICHS GEOEX

SEND	—	—	3-4	4-5	5-6	6-7				
RECEIVE	55-105	105-155	155	———	———	205				
MULTIPLIER			10	1.0	1.0	1.0				
PFE			1.3	1.6	1.7	1.8				
CUR. (AMPS)			3-5	5	5	5				
POINT NO.										
SEP. (n)			1	2	3	4				
H. F. MV			177	72.6	35.2	14.3				
DRIFT			—	—	—	—				
1.0 PFE K_h/1000										
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c			1-0	1-3	1-4	1-5				
3.0 MV $\rho/2\pi$			76	87	106	86				
DRIFT MCF			13	15	13	17				
S. P.	+9.8	-7.2	-25.1							
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 896, AREA Pinal Clm Grp

LINE 106W, HALF S, SP. 2, a = 500', BEARING S

SENDER STA. 5 5 = ELECTRODE No. 4, DATE 2-7-74

HEINRICHS GEOEX

SEND	2-8	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5	5-6
RECEIVE	2055	←	←	←	255	255	←	←	←	→
MULTIPLIER	1.0	1.0	1.0	1.0	0.1	1.0	1.0	1.0	1.0	0.1
PFE	1.1	1.4	1.6	1.6	1.7	0.9	1.2	1.6	1.8	1.9
CUR. (AMPS)	2.5	3.5	5	5	6	2.5	3.5	3.5	5	5
POINT NO.										
SEP. (n)	1	2	3	4	5	1	2	3	4	5
H. F. MV	99.2	44.2	24.5	14.3	7.99	71.8	33.9	16.7	11.1	7.24
DRIFT	—	—	—	—	—	+0.2	—	—	—	—
1.0 PFE K_n/1000										
0.3 PFE P_{CAL}										
0.1 PFE PFE_c	0.8	1.1	1.3	1.3	1.4	0.5	0.9	1.3	1.5	1.6
3.0 MV $P/2\pi$	60	76	74	86	70	43	58	72	67	77
DRIFT MCF	13	15	18	15	20	12	15	18	23	21
S. P.	+0.8					-18.5				
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 896, AREA Pinal Clm Grp

LINE 106W, HALF S, SR 2, a = 500', BEARING S

SENDER STA. 55 = ELECTRODE NO. 4, DATE 2-7-74

HEINRICHS GEOEX

SEND		6-7	1-2	2-3	3-4	4-5	5-6				
RECEIVE		305	305				355				
MULTIPLIER		0.1	1.0	1.0	1.0	0.1	0.1				
PFE		1.8	1.3	1.5	1.6	1.8	2.0				
CUR. (AMPS)		6	2-5	3-5	3-5	5	5				
POINT NO.											
SEP. (n)		6	2	3	4	5	6				
H. F. MV		4.47	26.9	20.1	11.3	8.32	5.75				
DRIFT		-0.2	+0.2	—	+0.1	-0.1	—				
1.0 PFE	K_n/1000										
0.3 PFE	P_{CAL}										
0.1 PFE	PFE_c	1.6	0.9	1.2	1.3	1.5	1.7				
3.0 MV	$P/2\pi$	63	65	86	97	87	97				
DRIFT	MCF	26	14	14	13	17	18				
S. P.			-13.5								
NOISE											
POT RES.											
CULT & CMTS											

I. P. RECEIVER NOTES, JOB NO. 896, AREA Pinal Clm Grp

LINE 106W, HALF S, SP. 2, a = 500', BEARING S

SENDER STA. 5S = ELECTRODE NO. 4, DATE 2-7-74

HEINRICHS GEOEX

SEND	1-2	2-3	3-4	4-5	1-2	2-3	3-4			
RECEIVE	3S3	—	—	4O3	4O5	—	4S3			
MULTIPLIER	1.0	1.0	0.1	0.1	0.1	0.1	0.1			
PFE	1.2	1.7	1.8	1.9	1.3	1.8	1.9			
CUR. (AMPS)	2-5	3-5	3-5	5	2-5	3-5	3-5			
POINT NO.										
SEP. (n)	3	4	5	6	4	5	6			
H. F. MV	13.5	11.8	7.34	5.47	9.17	8.81	5.72			
DRIFT	—	—	—	-0.2	—	+0.2	+0.2			
1.0 PFE K_n/1000										
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	0.9	1.4	1.5	1.7	1.0	1.4	1.5			
3.0 MV $P/2\pi$	81	101	110	92	110	132	137			
DRIFT MCF	11	14	14	18	9.1	11	11			
S. P.	+7.7				-12.2					
NOISE										
POT RES.										
CULT & CMTS										

I. P. SENDER NOTES

JOB No. 896 AREA Pinal Clm Ext

LINE 106W, HALF N, SP. ~~500'~~ 1/2 500', DATE

PAGE 21

HEINRICHS GEOEX

SEND	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	
RECEIVE	5S	00	00	5N	5N	5N			10N	
RANGE	100X30	100X30	100X30	100X30	100X30	1666X30	100X30	100X30	100X30	
VOLTAGE	860	840	860	860	840	720	860	880	860	
CURRENT	3	3	3	3	3	5	3	3	3	
SEND	5-6	4-5	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3
RECEIVE	10N				15N	15N				
RANGE	1666X30	1666X30	100X30	100X30	100X30	1666X30	1666X30	1666X30	100X30	100X30
VOLTAGE	640	720	860	880	860	360	640	720	880	880
CURRENT	5	5	3	3	3	5	5	5	3	3

FREQUENCIES	COMMENTS:
SENDER No.	
OPERATOR	
RECEIVER No.	
OPERATOR	

I. P. SENDER NOTES

JOB No. 896 AREA Pinal Clm Grp

LINE 106W, HALF N, SP. 2 (500'), DATE 6 Feb 74

HEINRICHS GEOEX

SEND	1-2	6-7	5-6	4-5	3-4	2-3				
RECEIVE	←20N	20N	———	———	———	25N				
RANGE	100X30	1666X30	1666X30	1666X30	1333X30	1333X30				
VOLTAGE	860	340	600	660	940	960				
CURRENT	3	5	5	5	4	4				
SEND	6-7	5-6	4-5	3-4	6-7	5-6	4-5			
RECEIVE	25N	———	———	30N	30N	———	35N			
RANGE	1666X30	1666X30	1666X30	1333X30	1666X30	1666X30	1666X30			
VOLTAGE	340	600	660	940	340	600	660			
CURRENT	5	5	5	4	5	5	5			

FREQUENCIES	1.0 40:1
SENDER No.	8661 S
OPERATOR	T. Downing
RECEIVER No.	D.D.
OPERATOR	R.J.

COMMENTS: #1 Start Here.

I. P. SENDER NOTES

JOB No. 896 AREA Pinal Clm Grp

LINE 106W, HALF 5, SP. 2 500', DATE 7 Feb 74

PAGE 3

HEINRICHS GEOEX

SEND	—	—	3-4	4-5	5-6	6-7				
RECEIVE	5-10	10-15	15S	~	~	20S				
RANGE										
VOLTAGE			890	660	600	350				
CURRENT			3.5	5	5	~~5~~				
SEND	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5	5-6
RECEIVE	20S	~	~	~	25S	25S	~	~	~	→
RANGE										
VOLTAGE	640	890	670	610	420	680	920	900	670	610
CURRENT	2.5	3.5	5	5	6	2.5	3.5	3.5	5	5

FREQUENCIES	1.0 9 0.1
SENDER No.	8661-S
OPERATOR	R.S.
RECEIVER No.	D.D.
OPERATOR	R.P.

COMMENTS:

I. P. SENDER NOTES

JOB No. 896 AREA Pinal Clm Grp

LINE 106W, HALF S, SP. 2 (500'), DATE 7 Feb 74

HEINRICHS GEOEX

SEND	6-7	1-2	2-3	3-4	4-5	5-6				
RECEIVE	305	305	———	———	———	355				
RANGE										
VOLTAGE	420	690	930	920	680	620				
CURRENT	6	2.5	3.5	3.5	5	5				
SEND	1-2	2-3	3-4	4-5	1-2	2-3	3-4			
RECEIVE	355	———	———	405	405	———	455			
RANGE					250X10	350X10				
VOLTAGE	690	940	930	690	700	960	940			
CURRENT	2.5	3.5	3.5	5.0	2.5	3.5	3.5			

FREQUENCIES	1.0 & 0.1
SENDER No.	8661-S
OPERATOR	R.J.
RECEIVER No.	D.D.
OPERATOR	R.P.

COMMENTS:

I. P. Receiver Notes, Job No. 896, Area Pinal Claim Group

Line 76 W, Half N, Sr. 2, a = 500', Bearing S

Sender Sta. 0 = Electrode No. 4, Date 2-1-74

HEINRICHS GEOEX

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	5N	5		10N	10			15N	
Multiplier		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
PFE		1.4	1.4	1.3	1.5	1.6	1.1	1.4	1.5	1.7	
Cur. (amps)		5	5	5	5	5	6	5	5	6	
Point No.											
Sep. (n)		1	2	1	2	3	1	2	3	4	
H. F. Mv		271	78.7	216	116	43.3	224	76.1	55.9	27.2	
Drift		+0.1	—	—	—	—	—	—	—	+0.1	
1.0 PFE	K_n/1000										
0.3 PFE	ρ_{CAL}										
0.1 PFE	PFE_C	1.2	1.2	1.1	1.3	1.4	0.9	1.2	1.3	1.5	
3.0 MV	$\rho/2\pi$	81.3	94.4	64.8	139	130	56.0	91.3	168	136	
Drift	MCF	15	13	17	9	11	16	13	8	11	
S. P.		-52.8		+39.0			-2.5				
Noise											
Pot Res.											
Cult & Cmts											

I. P. RECEIVER NOTES, JOB NO. 896, AREA Final Claim Group

LINE 96W, HALF N, SR. 2, a = 500', BEARING S

SENDER STA. 0 = ELECTRODE NO. 4, DATE 2-1-74

HEINRICHS GEOEX

SEND	5-6	4-5	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3
RECEIVE	15				20N	20				
MULTIPLIER	10	1.0	1.0	1.0	1.0	10	1.0	1.0	1.0	1.0
PFE	1.1	1.1	1.5	1.5	1.6	0.9	1.0	1.2	1.4	1.6
CUR. (AMPS)	5	5	5	5	6.5	6	5	7	4.5	5
POINT NO.										
SEP. (n)	1	2	3	4	5	1	2	3	4	5
H. F. MV	168	49.5	27.5	23.3	13.2	24.5	77.8	45.5	28.7	19.1
DRIFT	—	—	—	-0.1	—	+0.1	—	—	+0.1	—
1.0 PFE K_n/1000										
0.3 PFE P_{CAL}										
0.1 PFE PFE_C	0.9	0.9	1.3	1.3	1.4	0.7	0.8	1.0	1.2	1.4
3.0 MV $P/2\pi$	50.4	59.4	82.5	140	107	61.3	93.4	97.5	125	201
DRIFT MCF	18	15	16	9	13	11	9	10	10	7
S. P.	-24.7					-26.4				
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 596, AREA Pinal Claim Group

LINE 96 W, HALF N, SR. 2, a = 500', BEARING S

SENDER STA. 0 = ELECTRODE NO. 4, DATE 2-1-74

HEINRICHS GEOEX

SEND		1-2	6-7	5-6	4-5	3-4	2-3				
RECEIVE		→ 25 N	25	———	———	———	30 N				
MULTIPLIER		0.1	1.0	1.0	1.0	0.1	0.1				
PFE		1.6	0.9	1.0	1.2	1.4	1.9				
CUR. (AMPS)		6	6	5	7	5	2.6				
POINT NO.											
SEP. (n)		6	2	3	4	5	6				
H. F. MV		10.6	60.2	25.5	17.0	8.67	4.30				
DRIFT		—	—	—	—	—	—				
1.0 PFE	K_n/1000										
0.3 PFE	ρ_{CAL}										
0.1 PFE	PFE_c	1.4	0.7	0.8	1.0	1.2	1.7				
3.0 MV	$\rho/2\pi$	148	60.2	76.5	72.9	91.0	139				
DRIFT	MCF	10	12	10	14	13	12				
S. P.			+23.8								
NOISE											
POT RES.											
CULT & CMTS											

1. P. RECEIVER NOTES, JOB No. 596, AREA Pinal Claim Group

LINE 96 W, HALF N, SR. 2, a = 500', BEARING S

SENDER STA. 0 = ELECTRODE No. 4, DATE 2-1-74

HEINRICHS GEOEX

SEND		6-7	5-6	4-5	3-4	6-7	5-6	4-5			
RECEIVE		30			35N	3S		40N			
MULTIPLIER		1.0	0.1	0.1	0.1	1.0	0.1	0.1			
PFE		0.7	1.0	1.1	1.5	1.1	1.3	1.4			
CUR. (AMPS)		6	5	7	5	6	5	6			
POINT No.											
SEP. (n)		3	4	5	6	4	5	6			
H. F. MV		18.4	9.28	6.20	3.67	11.7	6.58	4.52			
DRIFT		—	-0.1	—	—	+0.1	—	+0.2			
1.0 PFE	K_n/1000										
0.3 PFE	P_{CAL}										
0.1 PFE	PFE_c	0.5	0.8	0.9	1.3	0.9	1.1	1.2			
3.0 MV	$P/2\pi$	45.0	55.7	50.3	61.7	58.5	69.1	63.3			
DRIFT	MCF	11	14	18	21	15	16	19			
S. P.		+10.3				+21.2					
NOISE											
POT RES.											
CULT & CMTS											

I. P. RECEIVER NOTES, JOB NO. 896, AREA Final Claim Group — PAGE X 5

LINE 96W, HALF 5, SR. 2, a = 500', BEARING N

SENDER STA. 00N S = ELECTRODE NO. 4, DATE 2-4-74

HEINRICHS GEOEX

SEND	3-4	4-5	5-6	6-7	2-3	3-4	4-5	5-6	6-7	EAL
RECEIVE	10			15 S	15				20 S	
MULTIPLIER	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
PFE	1.6	1.5	1.0	1.6	1.3	1.6	1.7	2.0	1.9	+0.3
CUR. (AMPS)	5								5	
POINT NO.										
SEP. (n)	1	2	3	4	1	2	3	4	5	
H. F. MV	256	74.3	40.9	21.2	288	83.0	35.4	22.6	12.9	102.0
DRIFT	+0.2	—	—	-0.2	—	—	—	—	—	
1.0 PFE K_n/1000										
0.3 PFE P_{CAL}										
0.1 PFE PFE_C	1-2	1-2	1-4	1-4	1-0	1-3	1-4	1-7	1-6	
3.0 MV $P/2\pi$	77	89	123	127	86	100	106	136	135	
DRIFT MCF	16	13	11	11	12	13	13	13	12	
S. P.	-17.3				+2.0					
NOISE										
POT RES.										
CULT & CMTS										

S.P.: 5-10 S = +4.6 ; 0-5 S = -23.8

I. P. RECEIVER NOTES, JOB No. 896, AREA Final Claim Group

LINE 96 W, HALF S, SR. 2, a = 500', BEARING N

SENDER STA. 00N S = ELECTRODE No. 4, DATE 2-4-74

HEINRICHS GEOEX

SEND	1-2	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5
RECEIVE	20					255	255			
MULTIPLIER	10	1.0	1.0	1.0	1.0	0.1	1.0	1.0	1.0	0.1
PFE	0.9	1.5	1.7	1.8	2.2	2.1	1.3	1.6	2.0	2.0
CUR. (AMPS)	5									5
POINT NO.	1									
SEP. (n)	1	2	3	4	5	6	2	3	4	5
H. F. MV	176	80.7	30.4	14.6	10.1	6.24	59.4	41.8	18.4	9.80
DRIFT	—	—	-0.1	—	—	-0.1	—	—	—	—
1.0 PFE K_n/1000										
0.3 PFE P_{CAL}										
0.1 PFE PFE_c	0.6	1.2	1.4	1.5	1.9	1.8	1.0	1.3	1.7	1.7
3.0 MV $P/2\pi$	53	97	91	88	106	105	71	125	110	103
DRIFT MCF	11	12	15	17	18	17	14	10	15	17
S. P.	-14.3						+3.7			
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 894, AREA Final Claim Group

LINE 96W, HALF S, SP. 2, a = 500', BEARING N

SENDER STA. 00 N S = ELECTRODE NO. 4, DATE 2-4-74

HEINRICHS GEOEX

SEND		5-6	1-2	2-3	3-4	4-5	1-2	2-3	3-4		
RECEIVE		30S	30			35S	35		40S		
MULTIPLIER		0.1	1.0	1.0	1.0	0.1	1.0	1.0	0.1		
PFE		2.4	1.6	2.0	2.1	2.2	1.7	2.0	2.3		
CUR. (AMPS)		5							5		
POINT NO.											
SEP. (n)		6	3	4	5	6	4	5	6		
H. F. MV		7.37	27.0	22.4	10.8	6.11	15.4	14.3	7.30		
DRIFT		—	—	+0.1	-0.1	—	—	-0.1	-0.1		
1.0 PFE	K_n/1000										
0.3 PFE	P_{CAL}										
0.1 PFE	PFE_C	2.1	1.3	1.7	1.8	1.9	1.4	1.7	2.0		
3.0 MV	P/2π	124	81	134	113	103	92	150	123		
DRIFT	MCF	17	16	13	16	19	15	11	16		
S. P.			-3.6				-13.1				
NOISE											
POT RES.											
CULT & CMTS											

I.P. SENDER NOTES

JOB No. 896 AREA Pinal Clm Grp

LINE 96W, HALF N, SP. 2 500', DATE 1 Feb 74

HEINRICHS GEOEX

SEND	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	
RECEIVE	0-5N	5N	4 0N		10	10N			15N	
RANGE										
VOLTAGE	650	500	630	650	510	550	630	650	610	
CURRENT	5	5	5	5	5	6	5	5	6	
SEND	5-6	4-5	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3
RECEIVE	15N				20N	20N				
RANGE										
VOLTAGE	460	460	630	660	660	660	460	650	~~570~~ ~~630~~	660
CURRENT	5	5	5	5	6.5	6	5	7	4.5	5

FREQUENCIES	1.0 & 0.1
SENDER No.	26721
OPERATOR	R. J.
RECEIVER No.	D. Damp.
OPERATOR	R. P

COMMENTS:

I.P. SENDER NOTES

JOB NO. 896 AREA Pinal Clm Erp

LINE 96W, HALF N, SP. 2 (500'), DATE 1 Feb 74

PAGE 7

HEINRICHS GEOEX

SEND	1-2	6-7	5-6	4-5	3-4	2-3				
RECEIVE	25N	25N	———	———	———	30N				
RANGE										
VOLTAGE	620	670	470	650	950	500				
CURRENT	6	6	5	7	5	3 2.6				
SEND	6-7	5-6	4-5	3-4	6-7	5-6	4-5			
RECEIVE	30N	———	———	35N	35N	———	40N			
RANGE	300X20	100X50	350X20	250X20						
VOLTAGE	670	470	650	950	670	470	560			
CURRENT	6	5	7	5	6	5	6			

FREQUENCIES	1.0 & 0.1
SENDER NO.	26721
OPERATOR	R.J.
RECEIVER NO.	D-D
OPERATOR	R.P.

COMMENTS: 5-6 max is 5a in 500-10 mode.

I. P. SENDER NOTES

JOB No. 896 AREA Pinal Clm Grp

LINE 96W, HALF S, SP. 2 (500'), DATE 4 Feb 74

PAGE 3

HEINRICHS GEOEX

SEND	—	—	3-4	4-5	5-6	6-7				
RECEIVE	—	—	10S	~~~	~~~	15S				
RANGE										
VOLTAGE			640	450	440	520				
CURRENT			5	5	5	5				
SEND	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5	5-6
RECEIVE	15S	~~~			20S	20S	~~~	~~~	~~~	→
RANGE										
VOLTAGE	650	640	450	440	520	490	660	640	450	440
CURRENT	5	5	5	5	5	5	5	5	5	5

FREQUENCIES 1.0 & 0.1

SENDER No. 8661-3

OPERATOR R-J

RECEIVER No. D.D.

OPERATOR R.P

COMMENTS:

I. P. SENDER NOTES

JOB No. 896 AREA Pinal Clm Grp

LINE 96W, HALF S, SP. 2/500, DATE 4 Feb 74

HEINRICHS GEOEX

SEND	6-7	1-2	2-3	3-4	4-5	5-6				
RECEIVE	25S	25S	—	—	—	30S				
RANGE										
VOLTAGE	520	500	660	650	450	450				
CURRENT	5	5	5	5	5	5				
SEND	1-2	2-3	3-4	4-5	1-2	2-3	3-4			
RECEIVE	30S	—	—	35S	35S	—	40S			
RANGE										
VOLTAGE	500	670	650	450	500	670	650			
CURRENT	5	5	5	5	5	5	5			

FREQUENCIES	1.0 & 0.1
SENDER No.	8661-5
OPERATOR	R. J.
RECEIVER No.	D-D1
OPERATOR	R. P.

COMMENTS:

I. P. RECEIVER NOTES, JOB No. 896, AREA Pinal Clm Grp

LINE 86W, HALF N, SR. 1, a = 500', BEARING N

SENDER STA. 00 = ELECTRODE No. 4, DATE

PAGE 1

HEINRICHS GEOEX

SEND		~~3-3~~	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	CAL
RECEIVE		0	5N	5N		10N	10N			15N	
MULTIPLIER		10	1.0	10	1.0	1.0	10	1.0	1.0	1.0	3 0.3 0.1
PFE		1.3	2.0	1.1	2.0	2.7	1.1	1.6	2.4	3.0	+0.1 -0.1
CUR. (AMPS)		5	5	5	5	5	5	5	5	5	
POINT NO.											
SEP. (n)											
H. F. MV		222.0	72.5	21.3 20	58.1	30.0	21.6 20	80.6	32.8	19.7	99.0 99.1
DRIFT		0.0	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										+0.1
0.3 PFE	P_{CAL}										
0.1 PFE	PFE_c	1.2	1.9	1.0	1.9	2.6	1.0	1.5	2.3	2.9	
3.0 MV	P/2π	67	87	64	70	90	65	97	98	118	-.1
DRIFT	MCF	18	22	16	27	29	15	16	23	25	
S. P.		~~17.4~~ +6.0		-6.3			-16.0				
NOISE											
POT RES.		5K		4K			5K				
CULT & CMTS											

I. P. RECEIVER NOTES, JOB NO. 896, AREA Pinal Claim Grp

LINE 86W, HALF N, SR. 1, a = 500', BEARING N

SENDER STA. _____ = ELECTRODE NO. _____, DATE _____

HEINRICHS GEOEX

SEND	5-6	4-5	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3
RECEIVE	15N	←	←	←	20N	20N	→	→	→	→
MULTIPLIER	10	1.0	1.0	1.0	1.0	10.0	1.0	1.0	1.0	1.0
PFE	0.9	1.3	1.8	2.6	3.3	0.9	1.0	1.3	2.0	2.9
CUR. (AMPS)	5	5	5	5	5	6	6	5	5	5
POINT NO.										
SEP. (n)										
H. F. MV	221.0	83.5	41.5	20.3	13.3	212.0	76.8	37.8	21.2	11.3
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	0.8	1.2	1.7	2.5	3.2	0.8	0.9	1.2	1.9	2.8
3.0 MV $P/2\pi$	66	100	125	122	140	~~54~~53	77	113	127	119
DRIFT MCF	12	12	14	21	23	15	12	11	15	24
S. P.	+4.9					-36.0				
NOISE										
POT RES.	5.5K					5K				
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 896, AREA Pinal Claim Group

LINE 86W, HALF N, SR. 1, a = 500', BEARING N

SENDER STA. _____ = ELECTRODE NO. _____, DATE _____

HEINRICHS GEOEX

SEND		1-2	6-7	5-6	4-5	3-4	2-3	2-3			
RECEIVE		25N	25N				30N				
MULTIPLIER		0.1	1.0	1.0	1.0	0.1	0.1	1.0 to 0.1			
PFE		3.*5	1.2	1.4	1.7 1.9 2.1	2.5	3.3	3.0 3.8 3.2			
CUR. (AMPS)		5	6	6	5	5	5	5			
POINT NO.											
SEP. (n)											
H. F. MV		7.78	51.3	25.3	13.7	8.38	4.92	5.02			
DRIFT		0.0	0.0	0.0	0.0	0.0	0.0	0.0			
1.0 PFE	K_n/1000						1.9				
0.3 PFE	P_{CAL}										
0.1 PFE	PFE_c	3.4	1.1	1.3	1.8	2.4	3.2	3.1			
3.0 MV	$P/2\pi$	131	51	63	82	88	83				
DRIFT	MCF	26	21	21	22	27	39				
S. P.			+25.2								
NOISE											
POT RES.			6K								
CULT & CMTS											

J. P. Receiver Notes, Job No. 896, Area Pinal Clm Grp

Line 86W, Half N, Sr. 1, a = 500', Bearing N

Sender Sta. _____ = Electrode No. _____, Date _____

HEINRICHS GEOEX

Send	6-7	5-6	4-5	3-4	6-7	5-6	4-5	4-5		
Receive	30N			35N	35N		40N			
Multiplier	1.0	0.1	0.1	0.1	0.1	0.1	0.1	1.0&0.1		
PFE	1.5	1.9	1.9 2.1 2.6	2.9	~~4.5~~ 2.2	2.1	2.5	1.9-2.6		
Cur. (amps)	6	6	5	5	6	6	5	5		
Point No.										
Sep. (n)										
H. F. Mv	18.7	10.50	6.13	4.21	~~9.78~~ ~~4.39~~	5.98	3.70	32.5		
Drift	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
1.0 PFE K_n/1000							1.5			
0.3 PFE P_{CAL}										
0.1 PFE PFE_c	1.4	1.8	2.0	2.8	2.1	2.0	2.4			
3.0 MV $P/2\pi$	47	53	64	71	50	52	62			
Drift MCF	30	34	31	40	42	38	39			
S. P.	-5.6				+5.0					
Noise										
Pot Res.	6.5K				5.5K					
Cult & Cmts										

J. P. RECEIVER NOTES, JOB No. 896, AREA Pinal Clm Grp

LINE 86W, HALF 5, SR. 1, a = 500, BEARING 5

SENDER STA. 00 = ELECTRODE No. 4, DATE

PAGE 5

HEINRICHS GEOEX

SEND	—	—	3-4	4-5	5-6	6-7				
RECEIVE	0-5S	5S-10S	10S	~~~~~	~~~~~	10S				
MULTIPLIER			10	1.0	1.0	1.0				
PFE			1.3	2.0	2.7	3.1				
CUR. (AMPS)			5	5	6	6				
POINT NO.										
SEP. (n)										
H. F. MV			309.0	70.9	34.9	23.2				
DRIFT			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	1.9	2.6	3.0				
3.0 MV $P/2\pi$			93	85	87	116				
DRIFT MCF			13	22	30	26				
S. P.	+3.0	-23.0	+7.4							
NOISE										
POT RES.	4.5K	4.5K	5K							
CULT & CMTS										

J. P. RECEIVER NOTES, JOB No. 896, AREA Pinal Clm Grp

LINE 86W, HALF S, SP. 1, a = 500, BEARING S

SENDER STA. _____ = ELECTRODE No. _____, DATE _____

PAGE 6

SEND	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5	5-6
RECEIVE	~~16~~ 3	←	←	←	203	205	←	←	←	→
MULTIPLIER	10.	1.0	1.0	1.0	0.3 3.3 1.0 0.1 6	~~+0~~ 10	1.0	1.0	1.0	0.1
PFE	1.5	1.9	2.6	3.1	3.3 2.9	1.1	1.9	2.4	3.1	3.5
CUR. (AMPS)	5	5	5	6	6	5	5	5	5	5
POINT NO.										
SEP. (n)										
H. F. MV	236.0	77.4	28.0	16.7	12.3 12.5	~~266.0~~ ~~12.1~~	54.2	29.2	13.2	7.31
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					1.8					
0.3 PFE P_{CAL}										
0.1 PFE PFE_c	1.4	1.8	2.5	3.0	3.2	1.0	1.8	2.3	3.0	3.4
3.0 MV $P/2\pi$	71	93	84	84	108	80	65	88	79	77
DRIFT MCF	20	19	30	36	30	13	28	26	38	44
S. P.	-4.0					-27.0				
NOISE										
POT RES.	6K					5K				
CULT & CMTS										

J. P. RECEIVER NOTES, JOB NO. 896, AREA Pinal Clm Grp

LINE 86W, HALF S, SP. 1, a = 500, BEARING S

SENDER STA. _____ = ELECTRODE NO. _____, DATE 29 Jan 74

PAGE 87

HEINRICHS GEOEX

SEND	6-7	1-2	2-3	3-4	4-5	5-6	5-6			
RECEIVE	255	255				305				
MULTIPLIER	0.1	1.0	1.0	1.0	0.1	0.1	1.0 1Hz			
PFE	3.47	1.4	2.1	2.5	3.1	3.5	2.9			
CUR. (AMPS)	6	5	5	5	5	6				
POINT NO.										
SEP. (n)										
H. F. MV	6.96	64.7	23.5	15.2	7.37	5.36	5.46			
DRIFT	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
1.0 PFE K_n/1000						1.9				
0.3 PFE P_{CAL}										
0.1 PFE PFE_c	3.6	1.3	2.0	2.4	3.0	3.4	2.8			
3.0 MV $P/2\pi$	97	78	71	91	77	75				
DRIFT MCF	37	17	28	26	39	45				
S. P.		-11.0								
NOISE										
POT RES.		5K								
CULT & CMTS										

J. P. RECEIVER NOTES, JOB NO. 896, AREA Pinal Clm Grp

LINE 86W, HALF S, SP. 1, a = 500', BEARING S

SENDER STA. _____ = ELECTRODE NO. _____, DATE 29 Jan 74

PAGE 8

HEINRICHS GEOEX

SEND	1-2	2-3	3-4	4-5	1-2	2-3	3-4				
RECEIVE	30S	~	~	35S	35S	~	40S	14.1Hz			
MULTIPLIER	1.0	1.0	0.1	0.1	1.0	0.1	0.1				
PFE	1.8	2.4	2.8	3.3	2.1	2.6	2.9	2.5			
CUR. (AMPS)	5	5	5	5	5	5	5				
POINT NO.											
SEP. (n)											
H. F. MV	30.65	14.4	10.29	5.50	16.4	9.08	6.925	7.05			
DRIFT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
1.0 PFE K_n/1000							1.7				
0.3 PFE P_{CAL}											
0.1 PFE PFE_C	1.7	2.3	2.7	3.2	2.0	2.5	2.8	2.4			
3.0 MV $P/2\pi$	91	86	108	92	98	95	117				
DRIFT MCF	19	27	25	35	20	26	24				
S. P.	+10.0				-13.0						
NOISE											
POT RES.	3.5K				5.5K						
CULT & CMTS											

I.P. SENDER NOTES

JOB No. 896 AREA Pinal Claim Group

LINE 56W, HALF N, SP. 1 (500'), DATE 1-29-74

PAGE 8 1

HEINRICHS GEOEX

SEND	3-4	2-3	1-2	4-5	3-4	2-3	1-2	3-4	2-3	1-2
RECEIVE	→	→	15N	15	→	→	10N	10	→	5N
RANGE	50X100	50X100	50X100	50X100	50X100	50X100	50X100	50X100	50X100	50X100
VOLTAGE	790	700	660	730	790	700	650	780	690	650
CURRENT	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
SEND	2-3	1-2								
RECEIVE	5N	0								
RANGE	50X100	50X100								
VOLTAGE	690	650								
CURRENT	5.0	5.0								

FREQUENCIES 3.0 & 0.3

SENDER No. 26721

OPERATOR RCP

RECEIVER No. 34726

OPERATOR Tolitte

COMMENTS:

I.P. SENDER NOTES

JOB No. 896 AREA Final Claim Group

LINE 86 W, HALF N, SP. 1 (500'), DATE 1-29-74

PAGE 12

HEINRICHS GEOEX

SEND	6-7	5-6	4-5	6-7	5-6	4-5	3-4	6-7	5-6	4-5
RECEIVE	40 →	→	35 N	35 →	→	→	30 N	30 →	→	→
RANGE	20X300	20X300	50X100	20X300	20X300	50X100	50X100	20X300	20X300	50X100
VOLTAGE	640	580	740	640	580	740	800	640	580	740
CURRENT	6.0	6.0	5.0	6.0	6.0	5.0	5.0	6.0	6.0	5.0
SEND	3-4	2-3	6-7	5-6	4-5	3-4	2-3	1-2	5-6	4-5
RECEIVE	→	25 N	25 →	→	→	→	→	20 N	20 →	→
RANGE	50X100	50X100	20X300	20X300	50X100	50X100	50X100	50X100	50X100	50X100
VOLTAGE	790	700	640	580	740	790	700	660	780	730
CURRENT	5.0	5.0	6.0	6.0	5.0	5.0	5.0	5.0	5.0	5.0

FREQUENCIES 9.0 & 10.3

SENDER No. 26721

OPERATOR RCP

RECEIVER No. 34726

OPERATOR Dolliffe

COMMENTS:

I. P. SENDER NOTES

JOB No. 896 AREA Final Claim Group

LINE 56 W, HALF 5, SP. 1, DATE 1-29-74

PAGE #3

HEINRICHS GEOEX

SEND	2-3	3-4	4-5	5-6	6-7	3-4	4-5	5-6	6-7	
RECEIVE	20				75S	1S			10 S	
RANGE	50X100	50X100	50X100	20X300	20X300	50X100	50X100	20X300	20X300	
VOLTAGE	660	740	690	540	590	740	690	540	590	
CURRENT	5.0	5.0	5.0	6.0	6.0	5.0	5.0	6.0	6.0	
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES 3.0 4 0.3

SENDER No. 26721

OPERATOR RCP

RECEIVER No. 34726

OPERATOR Dolffe

COMMENTS:

I.P. SENDER NOTES
JOB No. 896 AREA Pinal Claim Group
LINE 56W, HALF S, SP. 1, DATE 1-27-74
500'

PAGE 4
HEINRICHS GEOEX

SEND	1-2	2-3	3-4	1-2	2-3	3-4	4-5	1-2	2-3	3-4
RECEIVE	40	→	35 S	35			30 S	30		
RANGE	50X100	50X100	50X100	50X100	50X100	50X100	50X100	50X100	50X100	50X100
VOLTAGE	630	680	760	630	660	760	700	620	660	760
CURRENT	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
SEND	4-5	5-6	1-2	2-3	3-4	4-5	5-6	6-7		
RECEIVE		25 S	25					20 S		
RANGE	50X100	20X300	50X100	50X100	50X100	50X100	50X100	20X300		
VOLTAGE	700	540	620	660	750	700	470	600		
CURRENT	5.0	6.0	5.0	5.0	5.0	5.0	5.0	6.0		

FREQUENCIES 3,0 4 0,3
SENDER No. 26721
OPERATOR RCP
RECEIVER No. 34726
OPERATOR RCP

COMMENTS:

I.P. RECEIVER NOTES, JOB NO. 896, AREA Pinal Clm Grp

LINE 76W, HALF N, SR. 1, a = 500', BEARING N

SENDER STA. SN = ELECTRODE NO. 4, DATE 1-30-74

HEINRICHS GEOEX

SEND	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	Calc
RECEIVE	5N	10N	10N		15N	15N			20N	
MULTIPLIER	10	1.0	10	1.0	1.0	10	1.0	1.0	1.0	1.0
PFE	1.5	2.0	1.3	2.1	2.5	0.9	1.7	2.4	2.7	+0.1
CUR. (AMPS)	5	5	5	5	5	5	5	5	5	
POINT NO.										
SEP. (n)	1	2	1	2	3	1	2	3	4	
H. F. MV	12.4	40.9	11.0	38.2	21.3	16.9	41.5	23.0	15.3	99.1
DRIFT	—	—	-0.1	—	—	—	—	—	—	+0.1
1.0 PFE K_n/1000										
0.3 PFE P_{CAL}										
0.1 PFE PFE_C	1.6	2.1	1.4	2.2	2.6	1.0	1.8	2.5	2.8	
3.0 MV $P/2\pi$	37	49	33	45	63	50	49	68	91	
DRIFT MCF	43	43	43	48	41	20	37	37	31	
S. P.	+13.9		-7.7			+30.5				
NOISE										
POT RES.	3		4			4				
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 896, AREA Pinal Clm Grp

LINE 76W, HALF N, SP. 1, a = 500', BEARING N

SENDER STA. SN = ELECTRODE NO. 4, DATE 1-30-74

HEINRICHS GEOEX

SEND	5-6	4-5	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3
RECEIVE	20N				25N	25N				
MULTIPLIER	10	1.0	1.0	1.0	1.0	10	1.0	1.0	0.1	0.1
PFE	0.5	1.0	2.0	2.9	3.1	0.7	0.9	1.4	2.5	3.1
CUR. (AMPS)	5	5	5	5	5	5	5	5	6.5	6
POINT NO.										
SEP. (n)	1	2	3	4	5	1	2	3	4	5
H. F. MV	200	57.2	21.1	14.2	10.5	123	36.6	15.7	9.17	6.42
DRIFT	—	—	—	—	—	—	—	—	—	—
1.0 PFE K_n/1000										
0.3 PFE P_{CAL}										
0.1 PFE PFE_c	0.6	1.1	2.1	3.0	3.2	0.8	1.0	1.5	2.6	3.2
3.0 MV $P/2\pi$	60	68	63	84	109	37	44	48	42	56
DRIFT MCF	10	16	34	36	29	22	23	32	62	56
S. P.	-13.0					0.0				
NOISE										
POT RES.	4									
CULT & CMTS						4				

I. P. RECEIVER NOTES, JOB NO. 896, AREA Pinal Clm Grp

LINE 76W, HALF N, SR 1, a = 500', BEARING N

SENDER STA. 5N = ELECTRODE NO. 4, DATE 1-30-74

HEINRICHS GEOEX

SEND		1-2	6-7	5-6	4-5	3-4	2-3				
RECEIVE		30N	30N				35N				
MULTIPLIER		0.1	1.0	1.0	0.1	0.1	0.1				
PFE		3.1	1.2	1.5	1.7	2.5	3.1				
CUR. (AMPS)		5	5	5	5	6.5	6				
POINT NO.											
SEP. (n)		6	2	3	4	5	6				
H. F. MV		4.27	31.2	14.8	7.18	4.86	3.77				
DRIFT		—	—	—	—	—	—				
1.0 PFE	K_n/1000										
0.3 PFE	ρ_{CAL}										
0.1 PFE	PFE_c	3.2	1.3	1.6	1.8	2.6	3.2				
3.0 MV	$\rho/2\pi$	58	37	44	43	39	42				
DRIFT	MCF	57	35	36	42	67	76				
S. P.		+50.8									
NOISE											
POT RES.		2									
CULT & CMTS		2									

I. P. RECEIVER NOTES, JOB No. 896, AREA Pinal Clm Grp

LINE 76W, HALF N, SP. 1, a = 500', BEARING N

SENDER STA. SN = ELECTRODE No. 4, DATE 1-30-74

HEINRICHS GEOEX

SEND		6-7	5-6	4-5	3-4	6-7	5-6	4-5			
RECEIVE		35N			40N	40N		45N			
MULTIPLIER		1.0	0.1	0.1	0.1	0.1	0.1	0.1			
PFE		1.3	1.3	1.8	2.6	1.3	1.3	1.8			
CUR. (AMPS)		5	5	5	6	5.5	5	5			
POINT NO.											
SEP. (n)		3	4	5	6	4	5	6			
H. F. MV		14.5	7.74	4.11	2.78	8.63	4.66	2.63			
DRIFT		—	—	—	—	—	—	—			
1.0 PFE	K_n/1000										
0.3 PFE	P_{CAL}										
0.1 PFE	PFE_c	1.4	1.4	1.9	2.7	1.4	1.4	1.9			
3.0 MV	$P/2\pi$	43	46	43	31	47	49	35			
DRIFT	MCF	33	30	44	87	30	29	54			
S. P.		+3.6				+23.3					
NOISE											
POT RES.		2				2					
CULT & CMTS		2				sign					

*change on S.P.

I. P. RECEIVER NOTES, JOB NO. 896, AREA Pinal Clm Grp

LINE 76W, HALF S, SR. 1, a = 500', BEARING N

SENDER STA. SN = ELECTRODE NO. 4, DATE 1-31-74

HEINRICHS GEOEX

SEND	—	—	1-2	2-3	3-4	1-2	2-3	3-4	4-5	
RECEIVE	0-5N	5S-0	35 →		30S	30 →			25S	CAL
MULTIPLIER			1.0	0.1	0.1	1.0	1.0	0.1	0.1	
PFE			2.6	2.9	3.2	2.2	2.8	3.3	3.4	+0.2
CUR. (AMPS)			4.5	6	5	4.5	6	6	5	1
POINT NO.										
SEP. (n)			4	5	6	3	4	5	6	
H. F. MV			12.0	9.51	3.98	26.3	18.2	8.52	4.51	102.0
DRIFT			+0.2	—	—	—	—	—	—	0.0
1.0 PFE K_n/1000										
0.3 PFE P_{CAL}										
0.1 PFE PFE_c			2.3	2.7	3.0	2.0	2.6	3.1	3.2	
3.0 MV $P/2\pi$			78	82	66	86	89	73	74	
DRIFT MCF			29	33	46	23	29	42	43	
S. P.	-29.4	+25.7	+16.5			+8.8				
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 896, AREA Pinal Claim Group

LINE 76 W, HALF S, SR. ____, a = 500', BEARING N

SENDER STA. S N = ELECTRODE NO. 4, DATE 1-31-74

HEINRICHS GEOEX

SEND		1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5	5-6
RECEIVE		2S				2OS	2O				1S5
MULTIPLIER		1.0	1.0	1.0	0.1	0.1	1.0	1.0	1.0	1.0	0.1
PFE		2.0	2.5	3.0	3.4	3.7	1.5	2.3	2.9	3.3	3.7
CUR. (AMPS)		4.5	6	6	5	5.5	4.5	6	6	5	5
POINT NO.											
SEP. (n)		2	3	4	5	6	1	2	3	4	5
H. F. MV		51.0	29.4	11.3	5.28	4.94	223	94.9	30.2	11.2	8.25
DRIFT		+0.1	—	—	—	—	—	—	—	—	—
1.0 PFE	K_n/1000										
0.3 PFE	P_{CAL}										
0.1 PFE	PFE_c	1.8	2.3	2.8	3.2	3.5	1.3	2.1	2.7	3.1	3.5
3.0 MV	$P/2\pi$	67	72	55	54	74	73	93	74	66	85
DRIFT	MCF	27	32	50	59	47	18	23	37	47	41
S. P.		+19.3									
NOISE											
POT RES.											
CULT & CMTS											

I. P. RECEIVER NOTES, JOB NO. 896, AREA Pinal Claim Group

LINE 78W, HALF S, SR. ____, a = 500', BEARING N

SENDER STA. SN = ELECTRODE NO. 4, DATE 1-31-74

HEINRICHS GEOEX

SEND		6-7	2-3	3-4	4-5	5-6	6-7	3-4	4-5	5-6	6-7
RECEIVE		20-15 S	15				10 S	10			S S
MULTIPLIER		0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
PFE		4.0	1.8	2.5	3.0	3.4	3.7	1.9	2.3	2.9	3.1
CUR. (AMPS)		6	5	5	5	5	5	5	5	5	5
POINT NO.											
SEP. (n)		6	1	2	3	4	5	1	2	3	4
H. F. MV		8.61	305	66.2	23.5	14.7	12.0	185	43.2	20.9	15.2
DRIFT		—	—	—	—	—	—	+0.1	—	—	+0.1
1.0 PFE	K_n/1000										
0.3 PFE	ρ_{CAL}										
0.1 PFE	PFE_c	3.8	1.6	2.3	2.8	3.2	3.5	1.7	2.1	2.7	2.9
3.0 MV	$\rho/2\pi$	118	90	78	69	67	124	54	51	61	89
DRIFT	MCF	32	18	30	41	37	28	31	41	44	32
S. P.			+17.2					+8.5			
NOISE											
POT RES.											
CULT & CMTS											

I.P. SENDER NOTES

JOB NO. 896 AREA Pinal Clm Grp

LINE 76W, HALF N, SP. 2 (500'), DATE 30 Jan 74

HEINRICHS GEOEX

SEND	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	CAL
RECEIVE	5N	10N	10N		15N	15N			20N	
RANGE						100X50				100X10
VOLTAGE	550	520	530	550	520	710	530	560	520	
CURRENT	5	5	5	5	5	5	5	5	5	1
SEND	5-6	4-5	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3
RECEIVE	20N				25N	25N				
RANGE	100X50					100X50			130X50	120X50
VOLTAGE	650	720	540	560	520	590	650	720	700	680
CURRENT	5	5	5	5	5	5	5	5	6.5	6

FREQUENCIES 1-0 & 0-1

SENDER NO. 267218

OPERATOR R.J

RECEIVER NO.

OPERATOR R.P.

COMMENTS:

I.P. SENDER NOTES

JOB No. 896 AREA Pinal Clm Grp

LINE 76W, HALF N, SP. 2 (500'), DATE 30 Jan 74

HEINRICHS GEOEX

SEND	1-2	6-7	5-6	4-5	3-4	2-3				
RECEIVE	30N	30N	———	———	———	35N				
RANGE	100x50	100x50	——→		130x50	120x50				
VOLTAGE	~~630~~530	600	650	720	700	680				
CURRENT	~~6~~5	5	5	5	6.5	6				
SEND	6-7	5-6	4-5	3-4	6-7	5-6	4-5			
RECEIVE	35N	———	———	40N	40N	———	45N			
RANGE	100x50	———	——→	120x50	110x50	100x50	——→			
VOLTAGE	600	660	730	650	660	660	730			
CURRENT	5	5	5	6	5.5	5	5			

FREQUENCIES 1-0 & 0.1

SENDER No. 26721

OPERATOR R.S

RECEIVER No.

OPERATOR R.P.

COMMENTS:

I.P. SENDER NOTES

JOB No. 896 AREA Pinal Clm Grp

LINE 76W, HALF S, SP. 2 (500'), DATE 31 Jan 74

HEINRICHS GEOEX

SEND	—	—	3-4	4-5	5-6	6-7				
RECEIVE	5N-0	0-5S	5S	———	———	10S				
RANGE										
VOLTAGE			540	710	640	580				
CURRENT			5	5	5	5				
SEND	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5	5-6
RECEIVE	10S	———	———	———	15S	15S	———	———	———	→
RANGE										
VOLTAGE	560	550	720	640	580	480	680	660	720	650
CURRENT	5	5	5	5	5	4.5	6	6	5	5

FREQUENCIES	1.0 & 0.1
SENDER No.	2672
OPERATOR	R. J.
RECEIVER No.	D. D. 20693
OPERATOR	R. P.

COMMENTS:

I.P. SENDER NOTES

JOB No. 896 AREA Pinal Clm Grp

LINE 76W, HALF S, SP. 2 (500'), DATE 31 Jan 74

HEINRICHS GEOEX

SEND	6-7	1-2	2-3	3-4	4-5	5-6				
RECEIVE	20S	20S	—	—	—	25S				
RANGE										
VOLTAGE	700	490	680	670	730	720				
CURRENT	6	4.5	6	6	5	5.5				
SEND	1-2	2-3	3-4	4-5	1-2	2-3	3-4			
RECEIVE	25S	—	—	30S	30S	—	35S			
RANGE										
VOLTAGE	490	690	670	730	490	700	620			
CURRENT	4.5	6	6	5	4.5	6	5.0			

FREQUENCIES	1.0 & 0.1
SENDER No.	26721
OPERATOR	R. J
RECEIVER No.	D.D
OPERATOR	R.P

COMMENTS:

I. P. RECEIVER NOTES, JOB No. 896 AREA Pinal Clm Grp

LINE 00N5, HALF W, SP. 1, a = 500, BEARING N 87½° W

SENDER STA. 86W = ELECTRODE No. 4, DATE 23 Jan 74

PAGE 1

HEINRICHS GEOEX

SEND	5-6	6-7	4-5	5-6	6-7	3-4	4-5	5-6	6-7	CAL
RECEIVE	86W	91W	91W		96W	96W			101W	1.0
MULTIPLIER	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	0.1	
PFE	1.6	2.6	1.4	2.5	3.1	1.3	1.4	2.6	2.8	+0.2
CUR. (AMPS)	1	1.5	1	1.5	1.5	1	1	1	1.5	1.0
POINT NO.	1.5	6	1.5	6	15	1.5	6	15	30	
SEP. (n)										
H. F. MV	38.1	19.3	62.9	18.6	10.8	47.4	16.6	4.74	4.74	102.0
DRIFT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0±.2	0.0±.2	
1.0 PFE K_n/1000										
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c										
3.0 MV $\rho/2\pi$										
DRIFT MCF										
S. P.	+17.1		-12.0			-10.0				
NOISE										
POT RES.	+17.1V		V			V				
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 886 AREA Pinal Clm Grp

LINE 00 N S, HALF W, SR. 1, a = 500', BEARING N 87½° W

SENDER STA. 86 = ELECTRODE No. 4, DATE 23 Jan 74

PAGE 2

HEINRICHS GEOEX

SEND	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5	5-6
RECEIVE	101 W	←	←	←	106	106	←	←	←	→
MULTIPLIER	1.0	1.0	0.1	0.1	0.1	1.0	1.0	0.1	0.1	0.1
PFE	1.4	1.4	1.4	2.8	1-4274	1.3	1.5	1.3	1.5	2.8 2.4 3.0
CUR. (AMPS)	1	1	1	1	1	1	1	1	1	1
POINT NO.	1-5	6	15	30	52.5	1.5	6	15	30	52.5
SEP. (n)										
H. F. MV	59.1	22.7	10.30	3.29	2.34	37.6	17.4	9.00	4.43	1.54
DRIFT	0.0	0.0	0.0	0.0±.2	0.0	0.0	0.0	0.0	0.0±.3	0.0±.4
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.	−12.0					+45.0				
NOISE										
POT RES.	✓									
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 896 AREA Pinal Clm Grp. PAGE 3

LINE 00NS, HALF W, SR. 1, a = 500', BEARING N87½°W

SENDER STA. _____ = ELECTRODE No. _____, DATE 23924 Jan 74

HEINRICHS GEOEX

SEND	6-7	1-2	2-3	3-4	4-5	5-6	~~6-7~~				
RECEIVE	111	111				116	~~84~~				
MULTIPLIER	0.1	1.0	0.1	0.1	0.1	0.1					
PFE	3.1	1.5	0.6.5 (1.4)	1.6	~~20~~ 1.0	3.1					
CUR. (AMPS)	2.8 2 3.6	1.5	1.5	1.5	N.R (1.5) 1.0	1.5 (2)					
POINT NO.	~~68~~ 84	6	15	30	52.5	84					
SEP. (n)			(8.33)		(2.62)	(1.35)					
H. F. MV	2.33	12.1	8.36	4.97	1.77	1.00					
DRIFT	0.0±.2	0.0	0.0 (-0.2)	0.0	(00±.2)	(00±.2)					
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.		~~+5.2~~			~~+4.2~~						
NOISE			+4.7								
POT RES.											
CULT & CMTS											

( )—repeats on 24 Jan

I. P. RECEIVER NOTES, JOB No. 896 AREA Pinal Clm Grp

LINE 00N2, HALF W, SP. 1, a = 500', BEARING

SENDER STA. ____ = ELECTRODE No. ____, DATE 24 Jan 74

HEINRICHS GEOEX

PAGE 4

SEND	1-2	2-3	3-4	4-5	~~4-5~~	1-2	2-3	~~3-4~~		
RECEIVE	116			121		121		126		
MULTIPLIER	0.1	0.1	0.1	0.1		0.1	0.1	0.1		
PFE	1.5	1.5	1.4-1.5	1.0-1.9		1.6	1.7	1.7		
CUR. (AMPS)	1-4	1-3	1-3	1-2		1-3	1-3	1-3		
POINT NO.	15	30	52.5	84		30	52.5	84		
SEP. (n)										
H. F. MV	5.21	4.20	2.75	1.44		3.14	3.03	2.08		
DRIFT	0.0	0.0	0.0	0.0±.2		0.0	0.0	0.0±.2		
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.	-40.0					+33.2				
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 896 AREA Prial Clm Erp

LINE DONS, HALF E, SR. 1, a = 500', BEARING S 87 1/2° E

SENDER STA. _____ = ELECTRODE No. _____, DATE 24 Jan 74

HEINRICHS GEOEX

SEND	—	—	4-5	3-4	2-3	1-2		CAL		
RECEIVE	86W-81W	81W-76W	76W	———	———	71W				
MULTIPLIER			1.0	1.0	0.1	0.1		1.0		
PFE			2.1	2.7	2.8	3.1		+0.2		
CUR. (AMPS)			1	1.3	1.3	1.3				
POINT NO.			1.5	6	15	30				
SEP. (n)										
H. F. MV			42.5	17.0	9.40	4.11		102.2		
DRIFT			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.	-27.2	+50.8	+6.8							
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 896 AREA Pinal Clm Grp

LINE 00N5, HALF E, SP. 1, a = 500', BEARING

SENDER STA. _____ = ELECTRODE No. _____, DATE 24 Jan 74

PAGE 6

HEINRICHS GEOEX

SEND	5-6	4-5	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3
RECEIVE	7IW				66W	66W				→
MULTIPLIER	1.0	0.1	0.1	0.1	0.1	1.0	0.1	0.1	(1.0)	(0.1)
PFE	1.8	2.2	2.9	3.2 3.3	≈3.1	1.4(1.5)	2.4(2.3)	~~4.5~~ 2.5-3.0 2.8	3.2 3.0 — 3.4 5	3.4
CUR. (AMPS)	1.5	1.2	1.3	1.3	1.9?	5	5	5	5	5
POINT NO.	1.5	6	15	30	52.5	L5	6	15	30	52.5
SEP. (n)						(102.8)	(28.0)	(17.8)		
H. F. MV	31.7	9.71	5.33	3.48	2.42	64.3	7.52	7.39	(11.7)	(8.84)
DRIFT	0.0	0.0	0.0	0.0	0.0±.4	0.0 (0.0)	0.0 (0.0)	0 (0.0)	0.0	0.0
1.0 PFE K_n/1000							2.4	2.9-3.0	3.4	3.8
0.3 PFE P_{CAL}										
0.1 PFE PFE_C										
3.0 MV $P/2\pi$							27.6	17.6	(-1.8) 11.5	(-2.0) 8.66
DRIFT MCF							0.0	0.0	0.0	0.0
S. P.	-8.0					-23.0		(-13.0)		
NOISE						"DC" Noise to -18.0		1.0 mV spikes		drug of .3-.2 mV
POT RES.										
CULT & CMTS										

25 Jan ( )

I. P. RECEIVER NOTES, JOB NO. 896, AREA Pinal Clm Grp

LINE 00 NS, HALF E, SP. 1, a = 500', BEARING

SENDER STA. _____ = ELECTRODE NO. _____, DATE 24 Jan 74 ~~28~~

HEINRICHS GEOEX

SEND	1-2	6-7	5-6	4-5	3-4	2-3				
RECEIVE	6kw	6kw				55w				
MULTIPLIER	0.1	1.0	1.0	0.1	0.1	0.1				
PFE	≈3.4 (3.0-6.0)	2.0 (1.8-2.1)	2.6-2.8	? 2.4-4.2	(3.3) (3.1-3.7)	3.8 3.4-4.1				
CUR. (AMPS)	5	5	5	5 (3.2)	5	6				
POINT NO.	84	6	15	30	52.5	84				
SEP. (n)			(13.7)	(11.0)						
H. F. MV	4.44	30.9	13.4	10.79	(8.31)	(7.88)				
DRIFT	0.0	0.0	0.0	0.0±.2	0.0	0.0±.2				
1.0 PFE K_n/1000	3.4-4.1 4.0	2.0	3.0-3.2 3.0-3.2	3.6 3.1-3.7		(4.1)				
0.3 PFE P_{CAL}										
0.1 PFE PFE_C										
3.0 MV $P/2\pi$	(-2.0) 43.5	(-0.9) 30.6	(-1.6) 13.2	(-1.7) 10.59		(-1.9) 7.73				
DRIFT MCF	0.0	0.0		0.0						
S. P.		+32.7			(+20.0)					
NOISE			+26.3							
POT RES.										
CULT & CMTS										

28 Jan ( )

I. P. RECEIVER NOTES, JOB No. 896 AREA Pinal Gm Grp

LINE 00NS., HALF E, SP. 1, a = 500', BEARING

SENDER STA. _____ = ELECTRODE No. _____, DATE 28 Jan 74

HEINRICHS GEOEX

SEND		6-7	5-6	4-5	3-4	6-7	5-6	4-5			
RECEIVE		56W			51W	51W		46W			
MULTIPLIER		1.0	0.1	0.1	0.1	1.0	0.1	0.1			
PFE		2.3	3.3	3.4	3.4	3.2	×3.6	4.1			
CUR. (AMPS)		6	3.2-3.6 / 5	3.2-3.8 / 5	5	6	3.4-4.2 / 6	3.7-4.3 / 5			
POINT No.		15	30	52.5	84	30	52.5	84			
SEP. (n)											
H. F. MV		~~15.6~~ / ~~8.3~~	6.75	6.03	4.84	11.8	6.75	5.53			
DRIFT		0.0	0.0	0.0	0.0	0.0	0.0	0.0±.2			
1.0 PFE	K_n/1000					3.4	4.3	4.4			
0.3 PFE	P_{CAL}										
0.1 PFE	PFE_c										
3.0 MV	$P/2\pi$					11.7	(-2.0) 6.62	-2.0 5.41			
DRIFT	MCF										
S. P.		+7.6				-63.8					
NOISE											
POT RES.											
CULT & CMTS											

I. P. SENDER NOTES
JOB No. 896 AREA Pinal Claim Group
LINE 00 N.S., HALF W, SP. 1, DATE 1-23-74

PAGE 1

HEINRICHS GEOEX

SEND	5-6	-6-7	4-5	5-6	6-7	3-4	4-5	5-6	-6-7	2-3
RECEIVE	86-91 W		91		96 W	96			101 W	101-106 W
RANGE	100X10	150X10	100X10	150X10	150X10	100X10	100X10	100X10	150X10	100X10
VOLTAGE	260	220	340	350	230	320	340	260	240	310
CURRENT	1.0	1.5	1.0	1.5	1.5	1.0	1.0	1.0	1.5	1.0
SEND	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5	5-6	6-7
RECEIVE	101			106 W	106					111 W
RANGE	100X10	100X10	100X10	100X10	100X10	100X10	100X10	100X10	100X10	200X10
VOLTAGE	320	340	240	160	310	310	320	320	240	300
CURRENT	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0

FREQUENCIES 1.0 4 0.1
SENDER No. 8661
OPERATOR R. Peterson
RECEIVER No. 20693
OPERATOR R. Dolitfa

COMMENTS: Cal = 1.0

I. P. SENDER NOTES

JOB No. 896 AREA Final Claim Group

LINE 00 N, HALF W, SP. 1, DATE 1-23-74 & 1-24-74

HEINRICHS GEOEX

SEND	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5	
RECEIVE	111 →				116 W	114 →			121 W	
RANGE	150x10	150x10	150x10	100x10	150x10	140x10	130x10	130x10	120x10	
VOLTAGE	380	390	460	320	360	390	350	410	400	
CURRENT	1,5	1,5	1,5	1,0	1,5	1,4	1,3	1,3	1,2	
SEND	1-2	2-3	3-4		2-3	4-5	5-6			
RECEIVE	121 →		126 W		111 →		116 W			
RANGE	130x10	130x10	130x10		150x10	150x10	200x10			
VOLTAGE	360	340	420		400	500	520			
CURRENT	1,3	1,3	1,3		1,5	1,5	2,0			

FREQUENCIES	
SENDER No.	
OPERATOR	
RECEIVER No.	
OPERATOR	

COMMENTS: repeat 1-24-74

I. P. SENDER NOTES
JOB No. 896 AREA Pinal Claim Group
LINE 00 N.S. HALF E , SP. 1 , DATE 1-24-74

HEINRICHS GEOEX

SEND	4-5	3-4	2-3	1-2	5-6	4-5	3-4	2-3	1-2	6-7
RECEIVE	76	→	→	71 W	71	→	→	→	66 W	66-61 W
RANGE	100X10	130X10	130X10	130X10	150X18	120X10	130X10	130X10	190X10	300X10
VOLTAGE	340	410	340	360	380	400	400	340	560	470
CURRENT	1.0	1.3	1.3	1.3	1.5	1.2	1.3	1.3	1.9	3.0
SEND	5-6	4-5	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3
RECEIVE	66	→	→	→	61 W	61	→	→	→	56 W
RANGE	130X12	110X10	120X10							
VOLTAGE	320	380	380							
CURRENT	1.3	1.1	1.2							

FREQUENCIES 1.0 & 0.1
SENDER No. 2661
OPERATOR R & P
RECEIVER No. 20693
OPERATOR R. Dolittle

COMMENTS: Cal = 1.0

I. P. SENDER NOTES
JOB No. 596 AREA Final Claim Group
LINE OONS, HALF E, SP. 1, DATE 1-25-74

HEINRICHS GEOEX

SEND	5-6	4-5	6-7	5-6	4-5	3-4	2-3	1-2	6-7	5-6
RECEIVE	66		66					61W	61	
RANGE	30x10	20x10	166x30	166x30	166x30	166x30	166x30	166x30	166x30	166x30
VOLTAGE	720	640	440	580	820	770	620	880	440	560
CURRENT	3.0	2.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
SEND	4-5	3-4	2-3		5-6	4-5	3-4	2-3		
RECEIVE			56W		61			56W		
RANGE	166x30				50x100	50x100	50x100	20x300		
VOLTAGE	800				640	880	800	760		
CURRENT	5.0				5.0	5.0	5.0	6.0		

FREQUENCIES 1.0 & 0.1
SENDER No. 8661 2672
OPERATOR RCP
RECEIVER No. 20693
OPERATOR Col. Fte

COMMENTS:
1-28-74
Cal = 1.0

I. P. SENDER NOTES
JOB No. 896 AREA Pinal Claim Group
LINE 00N's, HALF E, SP. 1, DATE 1-28-74

PAGE 5
HEINRICHS GEOEX

SEND	6-7	5-6	4-5	3-4	6-7	5-6	4-5			
RECEIVE	56	——→	——→	51W	51	———	46W			
RANGE	20X300	50X100	50X100	50X100	20X300	20X300	50X100			
VOLTAGE	580	620	860	800	780	740	860			
CURRENT	6.0	5.0	5.0	5.0	6.0	6.0	5.0			
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES 1.0 & 0.1
SENDER No. 26721
OPERATOR RCP
RECEIVER No. 20693
OPERATOR Jolliffe

COMMENTS: Cal=1.0

HEINRICHS GEOEXPLORATION COMPANY

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

January 22, 1974

Mr. Steve Radvak
Cutlass Exploration & Development
1604 Royal Center
Vancouver, B. C.

Re: GEOEX Job #896

Dear Mr. Radvak:

The following letter of agreement is formulated according to the discussions held between R. H. Seraphim, Consulting Geologist for Cutlass, and Paul A. Head of Heinrichs GEOEXploration Company and as a result of their field examination at the Pinal Claim Group on January 21, 1974.

We have proposed to extend the 1966 induced polarization done by McPhar, using the dual frequency technique. Specifically, Line 0 N-S is to be partially rerun and extended west to 131+00 W (counting the east coordinate of the "Old Well" as 48+00W) serving as a baseline for the remainder of the survey. Five new north-south lines will then be completed. The layout of this work will be as follows:

Line 0 N-S: a=500 ft, 7 electrode, centered at 86W,
Total length 9000 feet
Line 76 W: a=500 ft, 7 electrode, centered at 5N,
Total length 7500 ft.
a= 1000 ft, 5 electrode, centered at 5N,
Total length 12000 ft.
Line 86 W: a=500 ft, 7 electrode, centered at 0.0N,
Total length 7500 ft.
a= 1000 ft, 5 electrode, centered at 0.0N,
Total length 12000 ft.
Line 96 W: a= 500 ft, 7 electrode, centered at 0.0N,
Total length 7500 ft.
a= 1000 ft, 5 electrode, centered at 0.0N,
Total length 12000 ft.

Line 106 W: a= 500 ft, 7 electrode, centered at 5S
Total length 7500 ft.
a= 1000 ft, 5 electrode, centered at 5S.
Total length 12000 ft.
Line 116 W a= 500 ft,7 electrode, centered at 5S,
Total length 7500 ft.
a= 1000 ft, 5 electrode, centered at 5S,
Total length 12000 ft.

These aggregate 106,500 feet of traverse(20.1 Line miles.) We estimate that approximately 14 field days will be required and the total cost including report will be $5000.00 to $6,000.00. An advance payment of $3,000.00 is requested.

The actual charges will be based on a 3 man crew with equipment at $250.00 per field day plus expenses. Expenses will include $48.00 per day living expenses for the three men and $15.00 per day plus $0.20 per mile for a four-wheel-drive vehicle. Other incidental job related expenses such as communications will be billed at our invoice cost plus 15%. Travel time between Tucson and Casa Grande and return, and standby time due to inclement weather or client request will be charged at one half the daily work rate plus expenses as above. Final compilation, computation and drafting will be charged at $10.00 per hour. Final interpretation and report will be charged at $18.75 per hour. Rough field plots and preliminary interpretations will be available during the project as needed, subject to receipt of the requested advance payment.

Our normal work schedule is based on an eight hour work day and a five day week. Travel time up to one hour per day each way between the job site and crew base will not be charged. Overtime in excess of this schedule will be charged at $37.50 per hour for the three man crew plus expenses as above.

GEOEX will hold the client harmless from all Workmen's Compensation liability, public liability and property damage liability incurred by GEOEX employees. All property permits, brushing and trespass liability, and related costs which are incurred on behalf of the client will be chargeable to the client at GEOEX cost plus 15 percent. All special insurance premiums, bonds, fees, duties, licenses, taxes, trespass permits, and related special fees, if any, will be billed to the client at GEOEX cost plus 15 percent.

Billings may be submitted periodically requesting interim payments with final payment due in full on presentation of final report.

Your understanding and approval of the above may be indicated by signing as provided below on the attached copy of this letter and returning it to us, or by submitting a purchase order.

Sincerely yours,

Heinrichs GEOEXploration Co.

Paul A. Head
Senior Geophysicist

Date: 1/24/74

Accepted by: Steve Radvak

Title: Consulting Engineer