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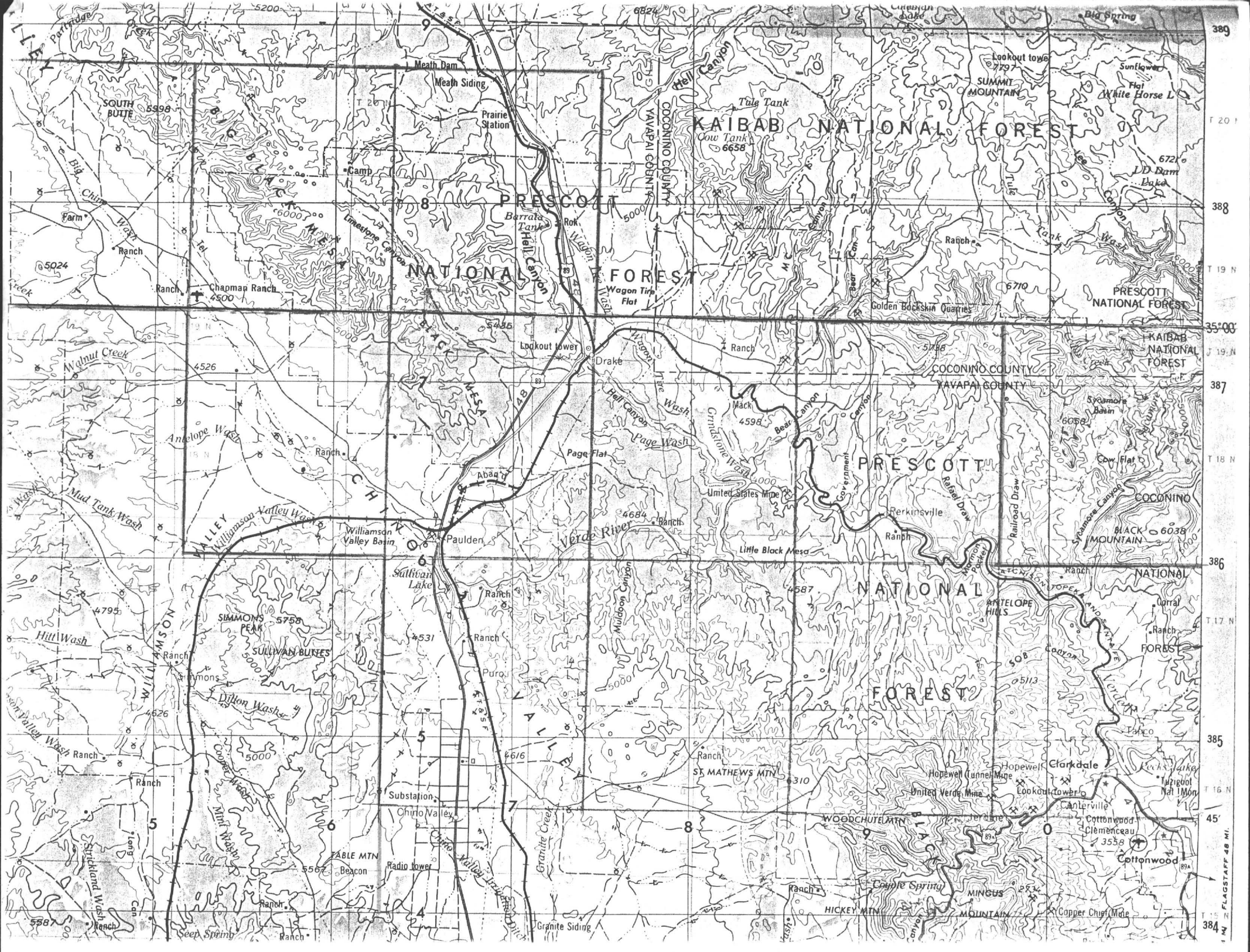

KAIBAB NATIONAL FOREST
PRESCOTT NATIONAL FOREST
COCONINO COUNTY
YAVAPAI COUNTY
Meath Dam
Meath Siding
Prairie Station
Camp
Tule Tank
Cow Tank
6658
Lookout tower
7797
SUMMIT MOUNTAIN
Sunflower Flat
White Horse L.
LD Dam Lake
SOUTH BUTTE
5998
Big Chino Wash
Farm
Ranch
Chapman Ranch
4500
5024
Limestone Canyon
Hell Canyon
Barrata Tank
Rock
Wagon Tire Flat
Golden Bockskin Quarries
6710
Lookout tower
Drake
Walnut Creek
4526
Antelope Wash
Mud Tank Wash
Williamson Valley Wash
Williamson Valley Basin
Paulden
Sullivan Lake
SIMMONS PEAK
5758
SULLIVAN BUTTES
Hill Wash
Simmons
Dillon Wash
Cooper Wash
Mint Wash
Strickland Wash
Seep Spring
TABLE MTN
Beacon
Radio tower
Substation
Chino Valley
Puro
Granite Creek
Granite Siding
Wagon Tire Wash
Page Wash
Page Flat
Abaco
Mack
4598
Bear Canyon
Grindstone Wash
United States Mine
Verde River
Muldoon Canyon
Little Black Mesa
Perkinsville
Rafael Draw
Railroad Draw
Sycamore Basin
Cow Flat
COCONINO
BLACK MOUNTAIN
6038
ANTELOPE HILLS
Corral
Cedar
Tavco
Clarkdale
Hopewell
Hopewell Tunnel Mine
United Verde Mine
Lookout Tower
Jerome
Cottonwood
Clemenceau
3558
Tuzigoot Nat'l Mon.
ST MATHEWS MTN
WOODCHUTE MTN
Coyote Spring
HICKEY MTN
MINGUS MOUNTAIN
Copper Chief Mine
FLAGSTAFF 48 MI.
35°00'
45'

November 12, 1981

Texas Instruments
P.O. Box 225621
Dallas, Texas 75265

Attention: Mr. Don Saunders

Re: Mesa A and Mesa B Area
Yavapai County, Arizona
IP Geophysical Survey
GEOEX #1545

Dear Don:

Transmitted herewtth are two (2) copies of our report.

Although the results are not wildly exciting, some results deserve further investigation. Possible future work should include: one line in Mesa A that would run down the ridge as discussed in our meeting in Tucson. On Mesa B we would recommend running one line along line 2, utilizing 500 foot dipoles in order to determine if the anomaly found with 1000 foot dipoles was fence related or a true anomaly.

After you have had a chance to assimilate the report, be sure to let us know any questions that arise and we will try to answer them.

It was a pleasure for all of us to have had this opportunity to serve Texas Instruments and we will certainly look forward to the next time.

Warmest personal regards.

Faithfully,

Heinrichs GEOEXploration Co.

Mark E. Anders
Geophysicist - Geologist

MEA:mt
Enclosures - 2 copies of report

Preliminary Reconnaissance

IP, Resistivity

and

Self Potential Geophysical Survey

of

Mesa A Area	Mesa B Area
Sections 11,12,13,14,23,24 T.19N., R.3W.	Sections 25,26,27,34,35 T.19N., R.2W.
U.S.G.S. Picacho Butte 15' Quad	U.S.G.S. Paulden 15' Quad

Yavapai County, Arizona

For

Texas Instruments Incorporated

P.O. Box 225621, Dallas, Texas 75265

By

Heinrichs GEOEXploration Company, (Inc.)

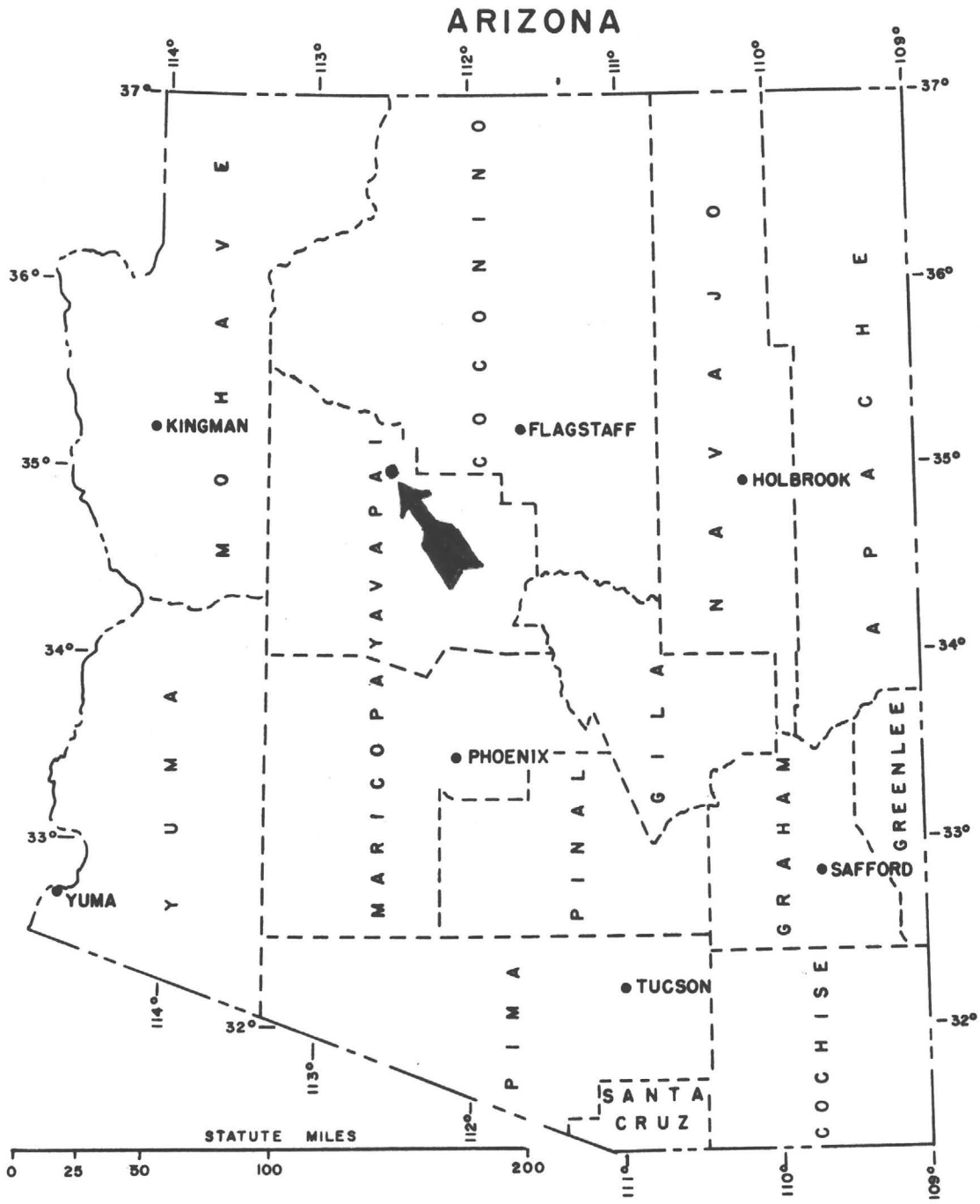
P.O. Box 5964 Tucson, AZ 85703

Job #1545

GENERAL LOCATION OF

MESA A and MESA B AREA

GEOEX #1545 12 November 1981



HEINRICHS GEOEXPLORATION COMPANY
806 W. GRANT RD., P.O. BOX 5964 TUCSON, ARIZ. 85703. PH: (602) 623-0578

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Interpretation and Location Plan Map

IP Sectional Data Sheets

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3
4

Two Appended Items:

Basis of IP Method

Comments on Drilling IP Targets

Interpretation and Location Plan Maps

INTRODUCTION

On August 21, 1981 a meeting was held at the offices of Heinrichs GEOEXploration Company, Tucson, Arizona between Mr. Don Saunders, Mr. David Jordt, and Mr. John O'Donnell of Texas Instruments, Inc., and Mr. Walter Heinrichs, and Mr. Mark Anders of Heinrichs GEOEXploration Co. Discussions referred to a proposed Induced Polarization survey in Yavapai County, Arizona. After subsequent phone conversations, at the request of Mr. Don Saunders of Texas Instruments of Dallas, Texas, GEOEX conducted a four-line, six spread preliminary reconnaissance induced polaration (IP), resistivity, and self-potential (SP) survey in two areas designated as Mesa A, and Mesa B, with Mesa A located in portions of sections 11, 12, 13, 14, 23, 24 in T19N, R3W, as mapped on the Picacho Butte 15' U.S.G.S. Quadrangle, and Mesa B located in portions of sections 25, 26, 27, 34, 35, 36 in T19N, R2W, as mapped on the Paulden 15' U.S.G.S. Quadrangle, in Yavapai County, Arizona about 40 miles northwest of Prescott, Arizona. The areas are approximately at 5500 feet elevation, with variable terrain. Soil development is good and conditions were wet at times. Floral cover consisted of low lying sagebrush, with juniper and pine trees. Four wheel drive access is generally good.

Field work was done during the interim September 14 through October 10, 1981 with Pat Zeller, geophysical technician, as crew chief, assisted by Curt Wahl, geophysical technician, Paul Horbatt, field helper, Stacy Wallis, field helper, under the supervision of Mark E. Anders, geophysicist-geologist.

Purpose of this work was to delineate subsurface geology with particular emphasis on evaluation at depth and to identify existence, strength, character, and distribution of possible sulfides.

PROCEDURES

GEOEX multiple frequency IP equipment involving a 4 ampere Mark 7 transmitter S/N 9662S and Mark 4-C receiver S/N 20693R was employed. Transmitter was powered by a 8HP Briggs and Straton gasoline engine, driving a 400 Hz-120V, 3KVA GE alternator. A transmitting frequency pair of 1.0 and 0.1 was employed. Spectral frequency tests (utilizing a higher frequency pair, i.e.: 3.0 and 0.3) done at the beginning of the survey indicated a lack of adverse coupling effects allowing the higher frequency pair to be usable, but, to minimize any possible coupling effects, we ran the survey at the lower frequency pair. The collinear dipole-dipole electrode array

was used with "spreads" of seven transmitting electrodes each and dipole lengths of 1000 feet.

Data results are presented on a "sectional" data sheet, showing successively from top to bottom: the apparent resistivity ( ) in units of ohm-feet, the percent frequency effect (PFE) (dimensionless) and the metal conduction factor (MCF) - all contoured in "sectional" form. It should be stated that these sectional presentations are conventional diagramatic representations and are not geologic cross sections as such. For this reason, they are sometimes called pseudosections. Indirectly, of course, they do relate to the subsurface geometry and geology, but the relationships are complex and not always intuitive, (See Basis of IP Method appended to this report).

Self Potentional (SP) readings, taken in conjunction with the IP work are presented at the bottom of the sectional data sheets in profile form.

INTERPRETATION

Of the two lines run on Mesa A both show definite resistivity contrasts with line 2 contrasts being the most pronounced.

Line 1 has a block of lower resistivity material on the southeastern end, centered between stations 20SE and 30SE (see plan map). This contact appears to be between unaltered limestone of higher resistivity and a block of altered limestone with lower resistivities.

Line 2 again has definite resistivity contrasts with breaks at stations 50SW, 40SW, 30NE, 40NE. A block of high resistivity material is located between stations 50SW and 40SW with the contact at 50SW matching with the geologic map as being the contact between the Tapeats Sandstone and the Martin Limestone. A block of material with lower resistivities is located between 30NE and 40NE. Faulting here is a possibility with the lower resistant material representing the fault zone. Although coverage is incomplete to the northeast, there does appear to be a series of faults as indicated by the drop in resistivity in distinct blocks.

As opposed to the resistivities the PFEs show little or no contrast on both lines. The general PFE background is also fairly low (0.6-0.8) which indicates very sparse and/or weak concentrations of sulfides and/or low or nil sulfide content overall, at least down to a depth of 2000 feet or so.

Line 1 shows a very minor PFE contrast centered under station 30SE. This is seen as a very weak increase of PFEs at depth on the southeastern portion of the line. Line 2 indicates, while still minor, a slightly larger increase of PFEs on the far southwestern edge of the line centered under station 30SW. This anomaly appears to be related to a zone of low resistivities dipping to the NE. While these PFEs indicate very minor anomalism, what there is can be entirely spurious, being simply caused by increased

artificial coupling effects with depth, rather than actual increasing sulfide with depth.

Self potential data on line 1 shows no results of any significance, while line 2 shows a small broad low starting at station 10NE and continuing on to the northeast. SP lows can relate to actively oxidizing sulfides which have established a weak potential or "battery" effect in the subsurface-usually across a conducting and interconnecting zone of oxide and sulfide lying respectively both above and below the water table. The SP phenomenon is well-documented in connection with massive sulfide deposits but hardly documented at all in connection with other geologic causes. A partial explanation of why this phenomenon has not been more thoroughly investigated is that the SP method in general lost its former popularity over the years in favor of some of the newer methods and consequently some IP practicioners do not even bother to record it at all, let alone tie it across long-reconnaissance spreads and plot and try to interpret it.

A table of average results obtained and their apparent geologic formational relationships follows below:

	Average	PFE	MCF
Redwall Limestone	1500	0.5	0.5
Martin Limestone	800	0.5	0.7
Tapeats Sandstone	600	1.1?	2.2?
Precambrian Basement	500	1.1?	1.5?

Two lines were located on Mesa B composed of 2, seven electrode spreads. These lines do not show the marked resistivity contrasts as found on Mesa A, but the changes are more gradational while still having zones of high and low resistivity.

Line 1 has a shallow zone of low resistivities located between 85NW and 45NW which correlates with magnetic anomaly area as indicated on the client base map. Another zone of low resistivities is located under center station 0 at depth of approximately 1000 feet. A contact located at station 30SE has high resistivity material to the southeast indicating a possible formational change between the Redwall Limestone to the NW and Supai Formation to the SE.

Line 2 again has a shallow zone of low resistivities located between 100SW and 90SW which correlates with another known magnetic anomalous area. A block of low resistivity material is centered beneath station 60SW at a depth of approximately 1300 feet. Two zones of high resistivity material are located on this line with one of them being centered beneath station 25SW at a depth of approximately 700 feet. The other block extends to the surface and is located between stations 10SW and 10NE.

In general the PFEs on Mesa B show little or no contrast, with the general PFE background also being very low (0.3-0.5) which indicates very low or nil sulfide content, at least down to a depth of 2000 feet or so. Line 1 has a very weak PFE anomaly centered at station 0. This anomaly appears to be related to the zone of low resistivities that were previously mentioned as being located under the center station 0. This anomaly is weak absolutely but when comparing it relatively to surrounding data it

is approximately twice background and it does tend to have the typical pant leg affect with high readings on the legs and low readings in the middle (see Basis of the IP Method).

While most of the values on line 2 are indicative of simple background, there does exist a zone of PFEs that are significantly larger than background. This zone is centered beneath station 60SW and extends from the surface down to a depth of at least 1500 feet. This anomaly appears to be related to a zone of low resistivities that is centered under 60SW. This anomaly could also be due to a fence that cuts the line approximately perpendicularly. Fence effects, especially when ground with metal posts, can give anomalously high readings.

SP potential (SP) data do not give any real pronounced indications of possible sulfides. Line 1 shows no data of any significance, while line 2 shows a small broad low starting at station 30SW and continuing on to the southwest possibly indicative of the monocline structure.

CONCLUSIONS AND RECOMENDATIONS

The strongest response noted on Mesa A was that of definite contrasts in resistivities. On line 1 higher resistivities are associated with the purer Redwall limestone and the lower resistivities are associated with the more altered Martin Limestone. Line 2 tends to follow the same hypothesis except on the northeastern end of the line where a possible fault zone is responsible for the zone of lower resistant material centered about station 30NE. An apparent resistivity high is located between stations 40SW and 50SW on line 2 with the geological map showing the Tapeats sandstone-Martin limestone contact being located at 50SW. However, there is a possibility that this contact is really the Tapeats-Precambrian contact, therefore the zone of high resistivities between stations 40SW and 50SW is really the Tapeats sandstone, but to determine if this actually true would require accurate mapping in that area.

PFE response is weak on both lines on Mesa A with only the weak anomalism occuring under station 30SE on line 1 and under station 30SW on line 2. Both responses are weak when compared on an absolute basis, but when compared relative to background they tend to be approximately twice background and slightly anomalous. These two points are roughly 3000 feet apart (see plan map) and because the IP response may cover up to 2 dipoles laterally there is the possibility that something anomalous exists between the two points. To test this possibility we propose that one line of 1000 foot dipoles be run (see plan map) with the line placed in between lines 1 and 2.

SP results appear not to be of any great significance at either location. This can also be attributed to a situation of insufficient total sulfide content of the rocks to begin with, or to oxidation of any former sulfide content which is too complete and/or extends to too great a depth to allow for any significant or measurable response effects at the surface.

Mesa B does not have the definite resistivity breaks as Mesa A but instead has gradational changes into zones of high and lower resistivities.

Both lines have shallow resistivity lows that correspond with known magnetic anomalies. On line 1 the low is between stations 85NW and 45NW, and on line 2 between stations 100SW and 90SW (see plan map). A geologic relationship between the magnetics and the resistivities should be explored further.

Line 1 has a resistivity low centered under station 0. This corresponds with a weak PFE anomaly centered under the same station. These PFEs are very low and in most circumstances would not be considered anomalous but when compared to a very weak background a small anomaly can be defined. Indication here is of little or no sulfide content in the rock at this time, but there is the possibility that the sulfides have been almost completely oxidized and what you now see is a remant area of minor sulfides. We recommend a drill hole to be located at station 0 and programmed to a depth of 1300 feet to examine this combined resistivity low and PFE anomaly. This drill hole should be considered with the knowledge that the PFEs are not dominant values but when combined with the resistivities and geologic information it becomes a marginal target worth consideration.

Line 2 has zones of high and low resistivities with the most prominent being a resistivity low that is centered under station 60SW. This low correlates with a PFE anomaly that is centered under the same station. This anomaly is quite significant when compared to background values and is well defined. A fence located approximately at station 57SW could result in giving these anomalously high PFE values. Whether the fence is the sole cause still needs to be determined. To accomplish this we propose that one short line of induced polarization with 500 foot dipoles be run over the present line. This line would check the possibility of interference by the fence and also would give better data resolution if real and not fence caused.

ACKNOWLEDGEMENTS

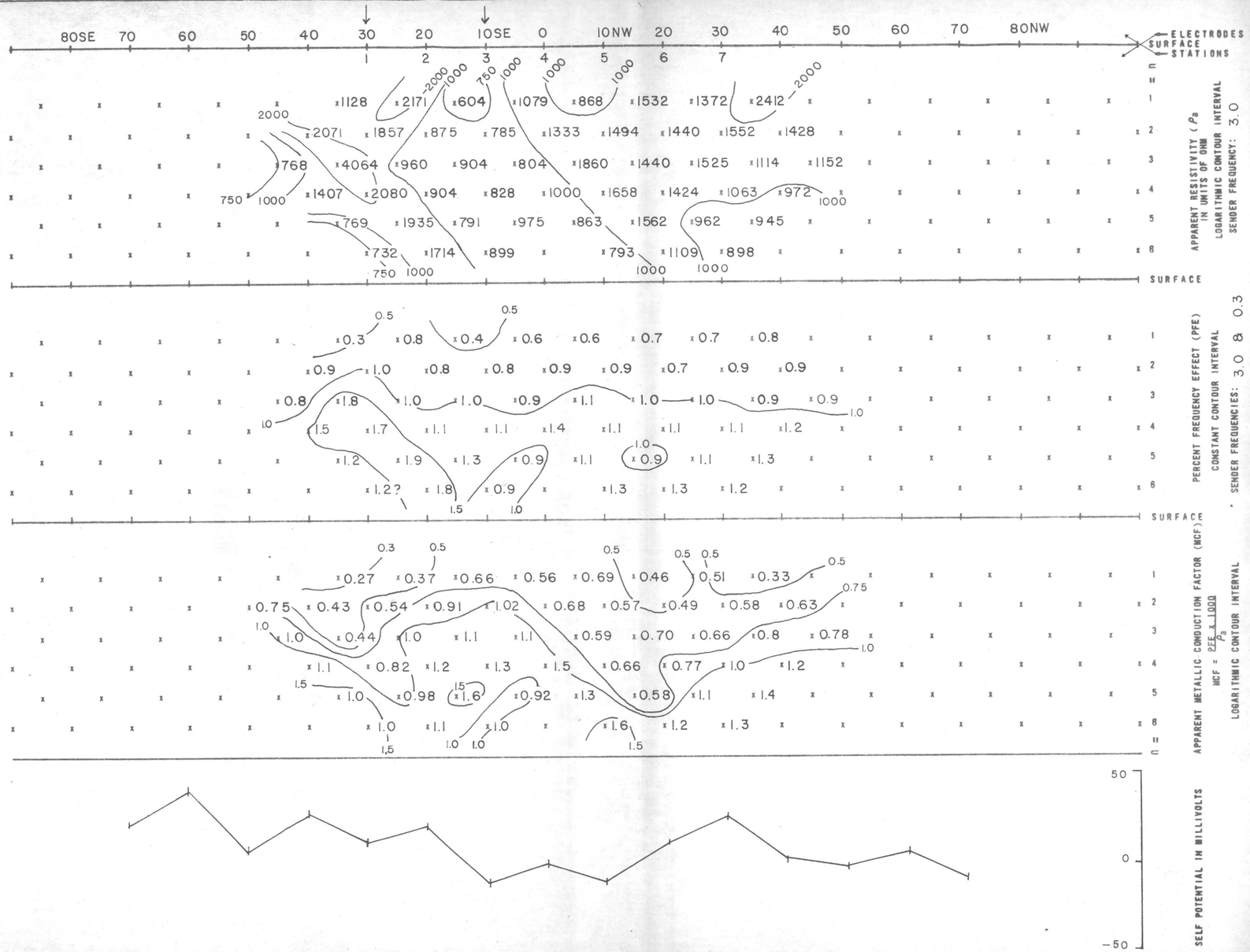
We wish to thank John O'Donnell, and David Jordt for their complete cooperation and assistance in the field, guiding us around, and providing us with the necessary base maps. We would especially like to thank Don Saunders for all of his kind help. This not only helped expedite our efforts, but also allowed them to be more complete and comprehensive, and, therefore, we trust more useful.

Approved:

Registered Professional Engineer (Civil) CERTIFICATE EXPIRES DEC. 31, 1981 ARIZONA, U.S.A.

Respectively Submitted,
Heinrichs GEOEXploration Company, Inc.

Mark E. Anders
Geophysicist and Geologist



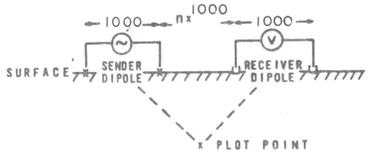
LINE NO.
|
SPREAD(S)
|
BEARING
S 15° E

INDUCED POLARIZATION TRAVERSE SECTIONAL DATA SHEET of MESA A FOR TEXAS INSTRUMENTS INC.

RELATIVE ANOMALY STRENGTH

VERY WEAK — WEAK — MODERATE — STRONG

DIPOLE-DIPOLE ELECTRODE ARRAY



↓ Contact

| Cultural Features (fences, drill casings, etc.)

DATE

NOVEMBER 1981

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GEOEX # 1545

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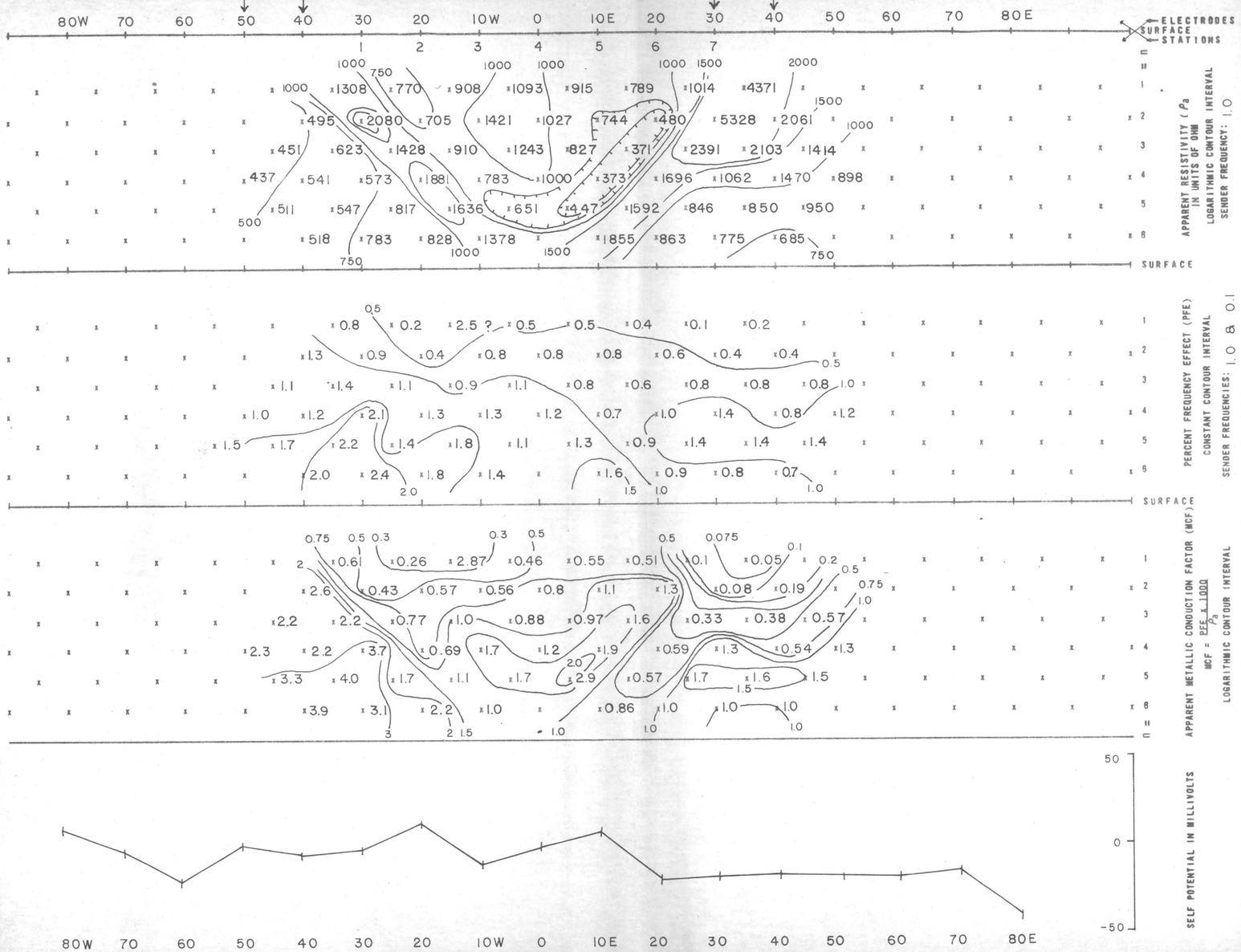


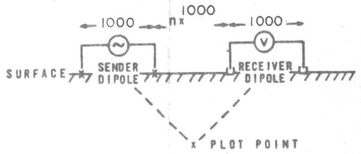
LINE NO.
2
SPREAD(S)
1
BEARING
N 59°E

INDUCED POLARIZATION TRAVERSE SECTIONAL DATA SHEET of MESA A FOR TEXAS INSTRUMENTS INC.

RELATIVE ANOMALY STRENGTH

VERY WEAK — WEAK — MODERATE — STRONG

DIPOLE-DIPOLE ELECTRODE ARRAY



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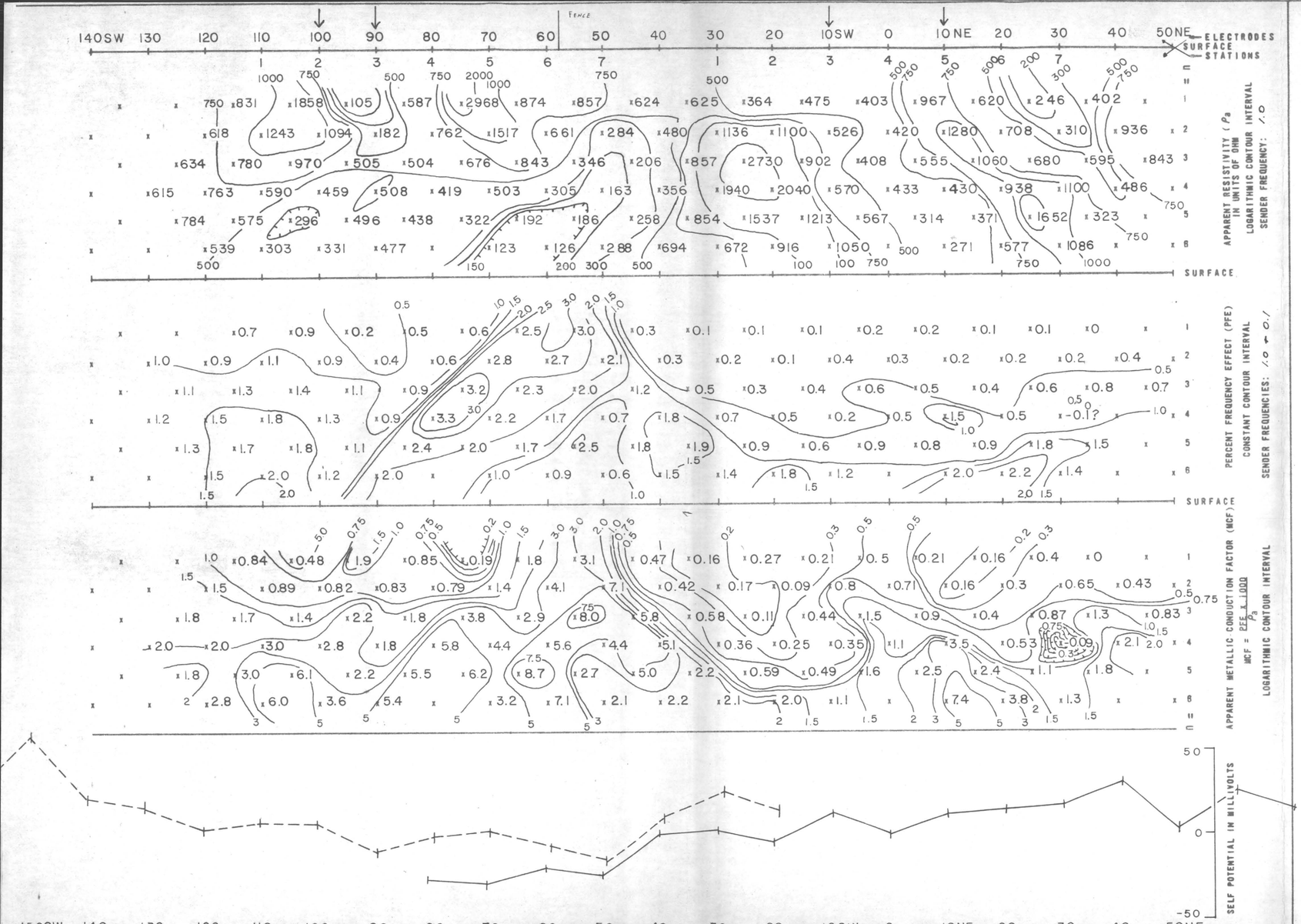


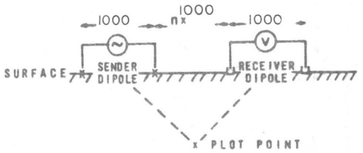
LINE NO.
2
SPREAD(S)
1, 2
BEARING
N 66° E

INDUCED POLARIZATION TRAVERSE SECTIONAL DATA SHEET of MESA B FOR TEXAS INSTRUMENTS INC.

RELATIVE ANOMALY STRENGTH

VERY WEAK — WEAK — MODERATE — STRONG

DIPOLE-DIPOLE ELECTRODE ARRAY



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| Cultural Features (fences, drill casings, etc.)

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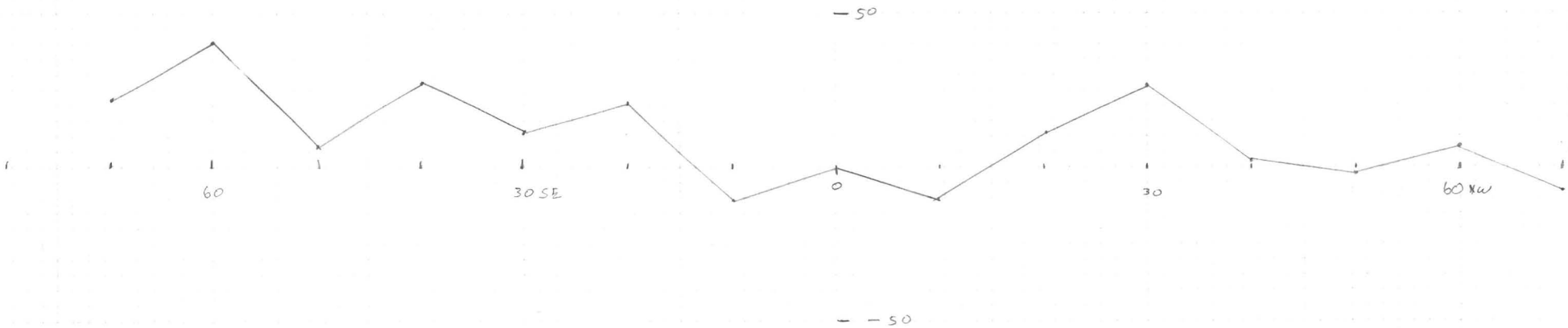
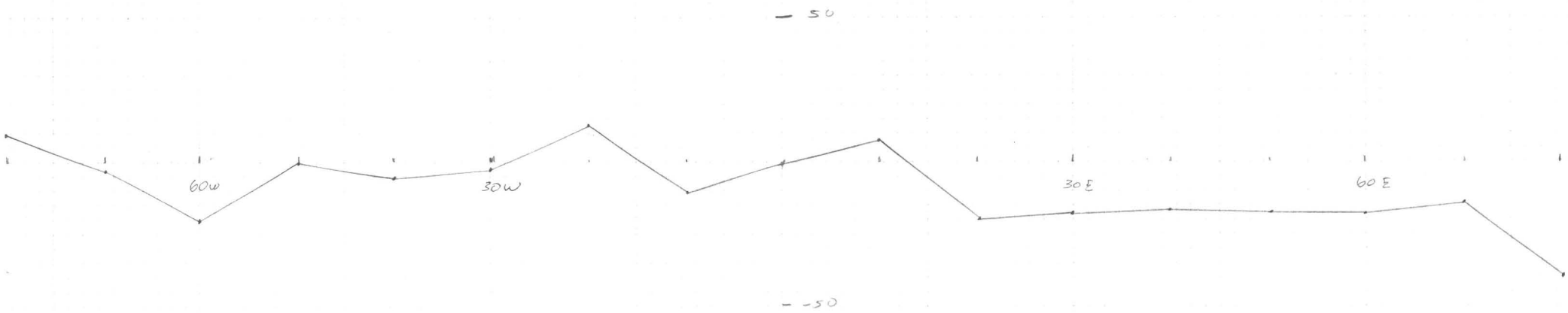
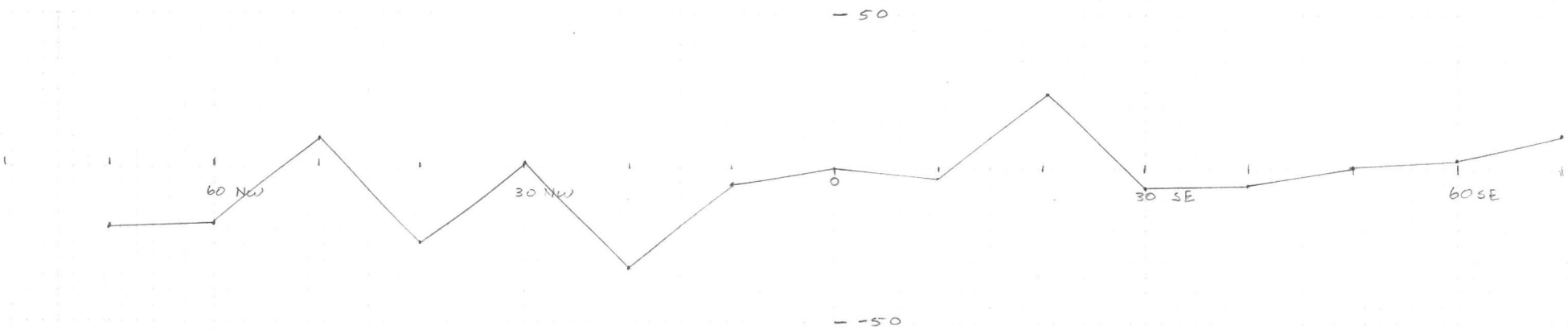
MESA A LINE 1



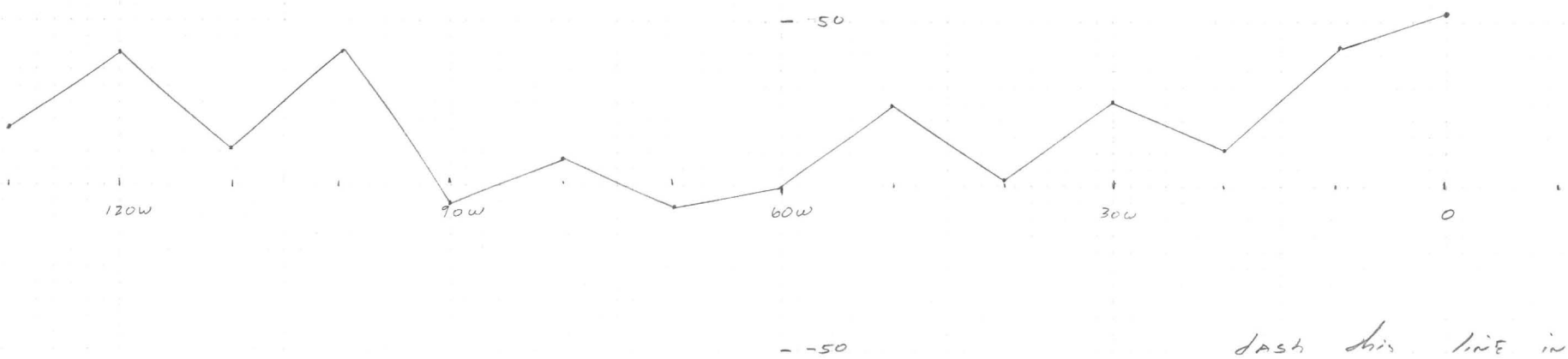
MESA A LINE 2



MESA B LINE 1 sp 1

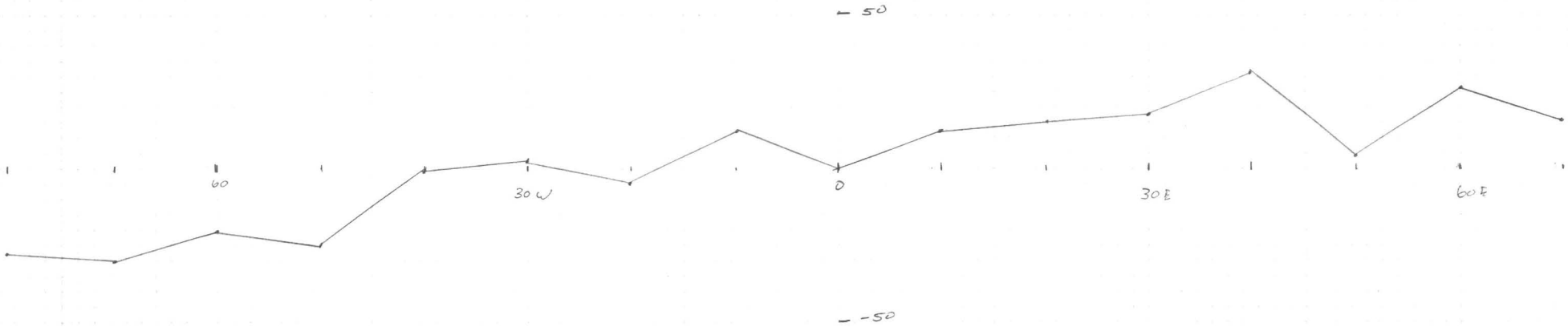


MESA B LINE 1 sp. 2

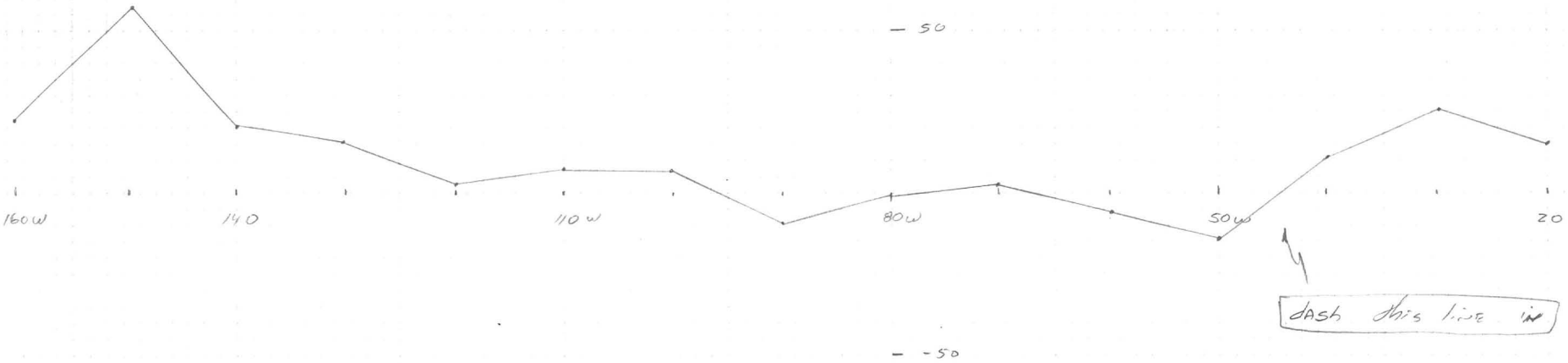


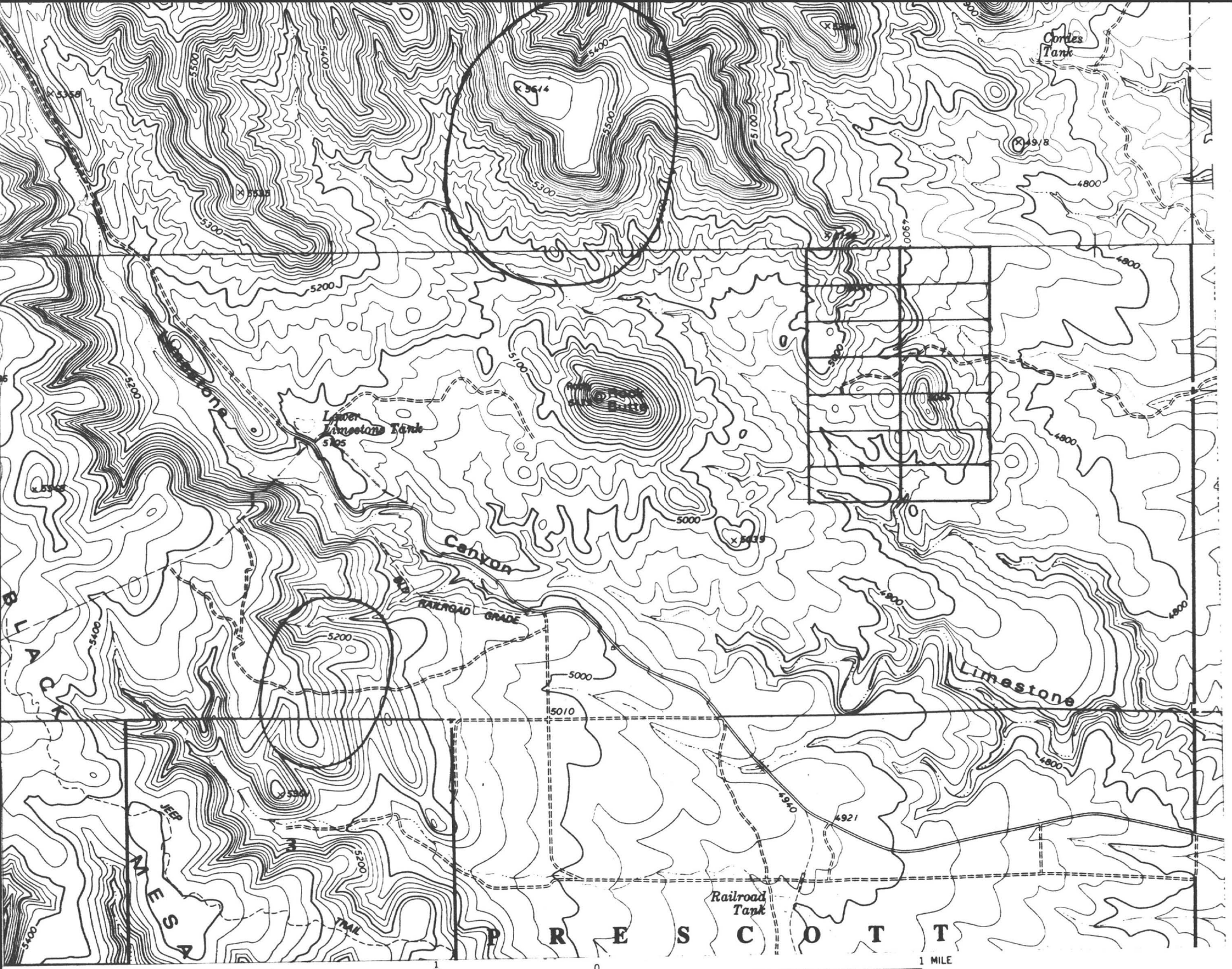
dash this line in

MESA B LINE Z SP. 1



MESA B LINE Z SP. 2




Cordes Tank
Lower Limestone Tank
Limestone
Canyon
OLD RAILROAD GRADE
Limestone
Railroad Tank
JEEP TRAIL
BLACK MESA
P R E S C O T T
5614
5358
5328
5325
5305
5000
5010
4940
4921
4918
4800
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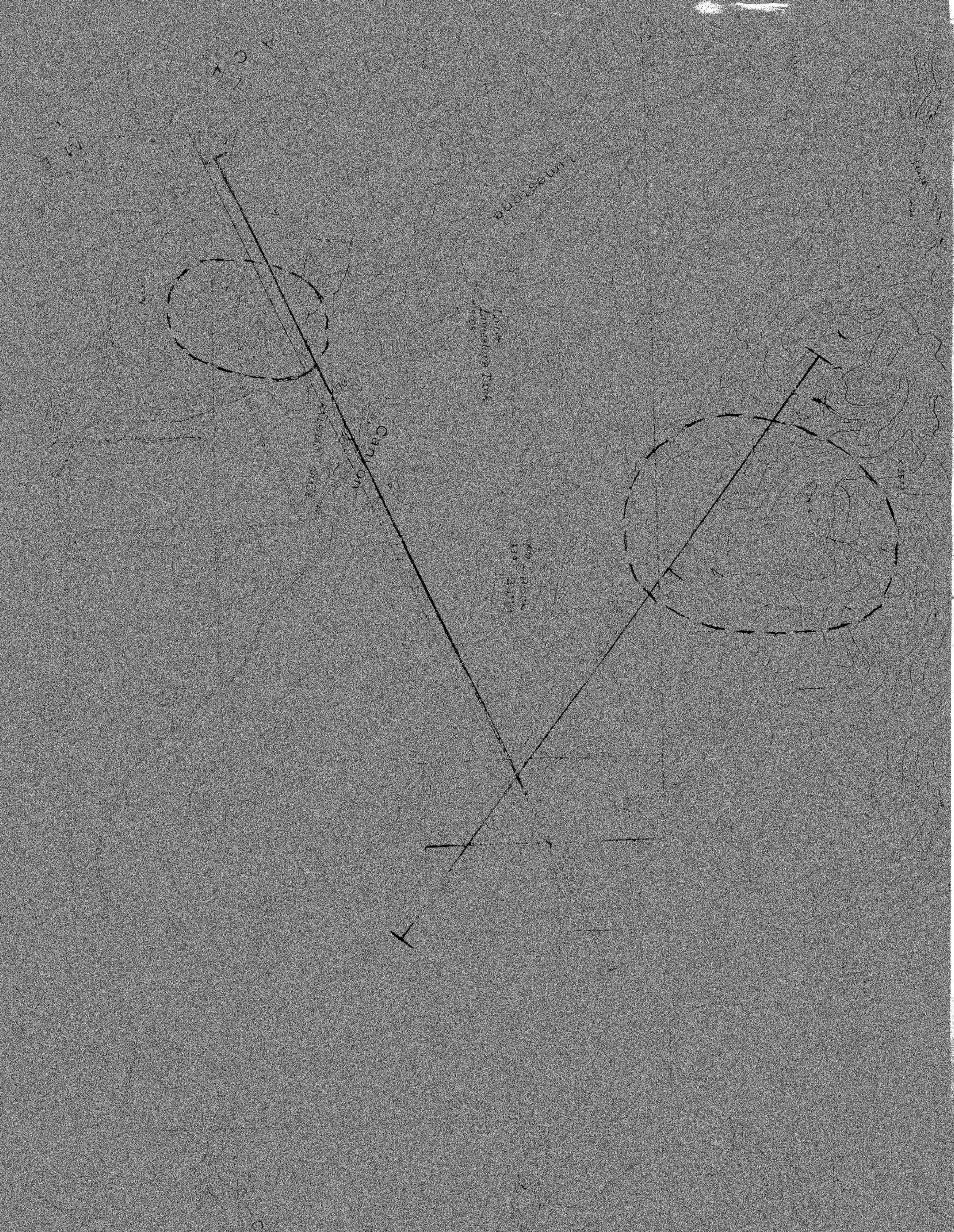
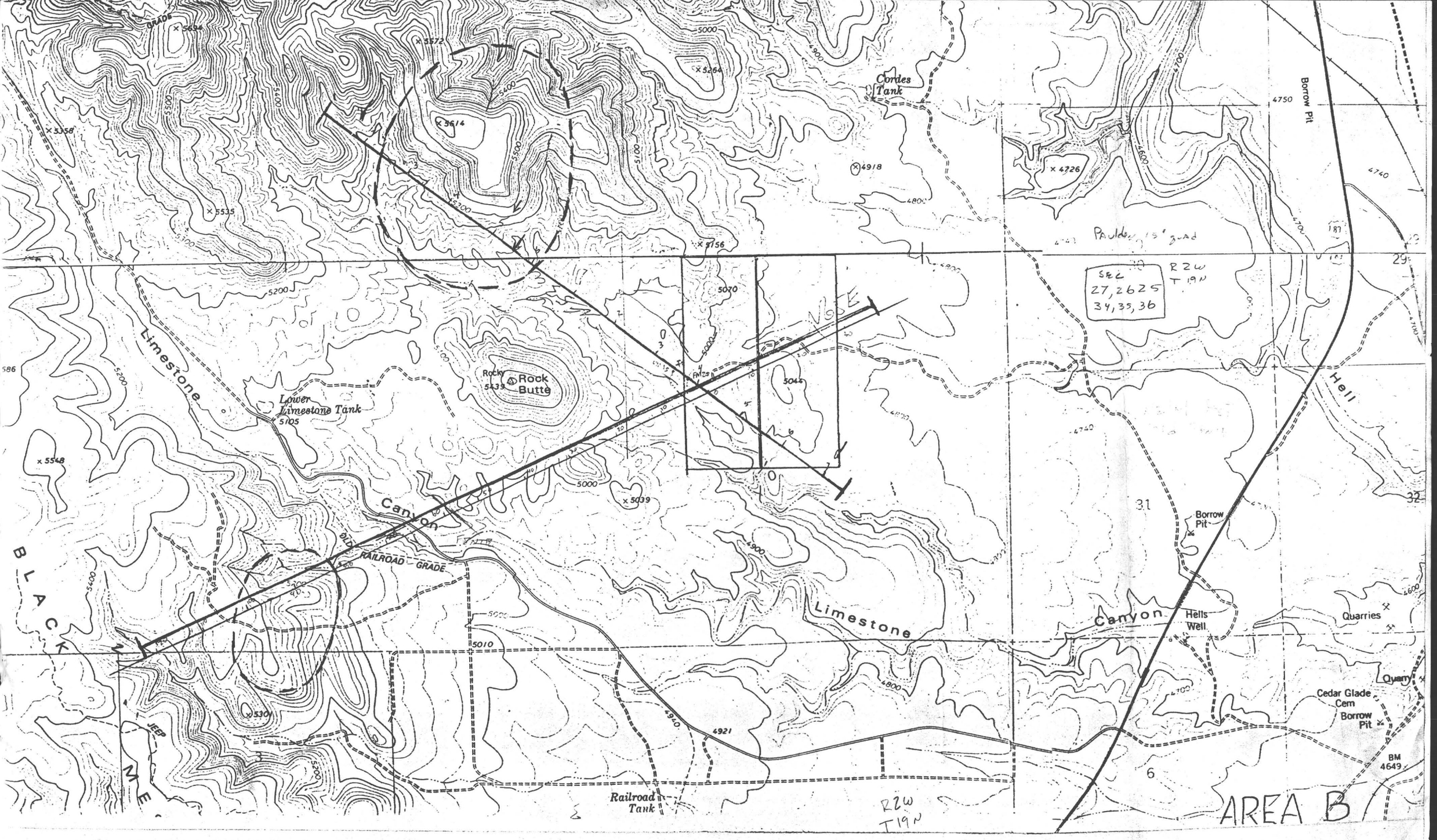
5300
5400
5500
5900
1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 KILOMETER


Limestone
Canyon

Cordes Tank
Lower Limestone Tank
Rocky Butte
Limestone
Canyon
OLD RAILROAD GRADE
BLACK
MESA
JEEP TRAIL
Limestone
Railroad Tank
PRESCOTT
1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 KILOMETER


Cordes Tank
Borrow Pit
Paulding's Quad
SEC 27, 26, 25 34, 35, 36
R2W T19N
Rocky Rock Butte
5439
Lower Limestone Tank
5105
Limestone
Canyon
Old RAILROAD GRADE
Limestone
Canyon
Hells Well
Borrow Pit
Quarries
Quarry
Cedar Glade Cem
Borrow Pit
BM 4649
Hell
BLACK
JEEP
Railroad Tank
R2W T19N
AREA B

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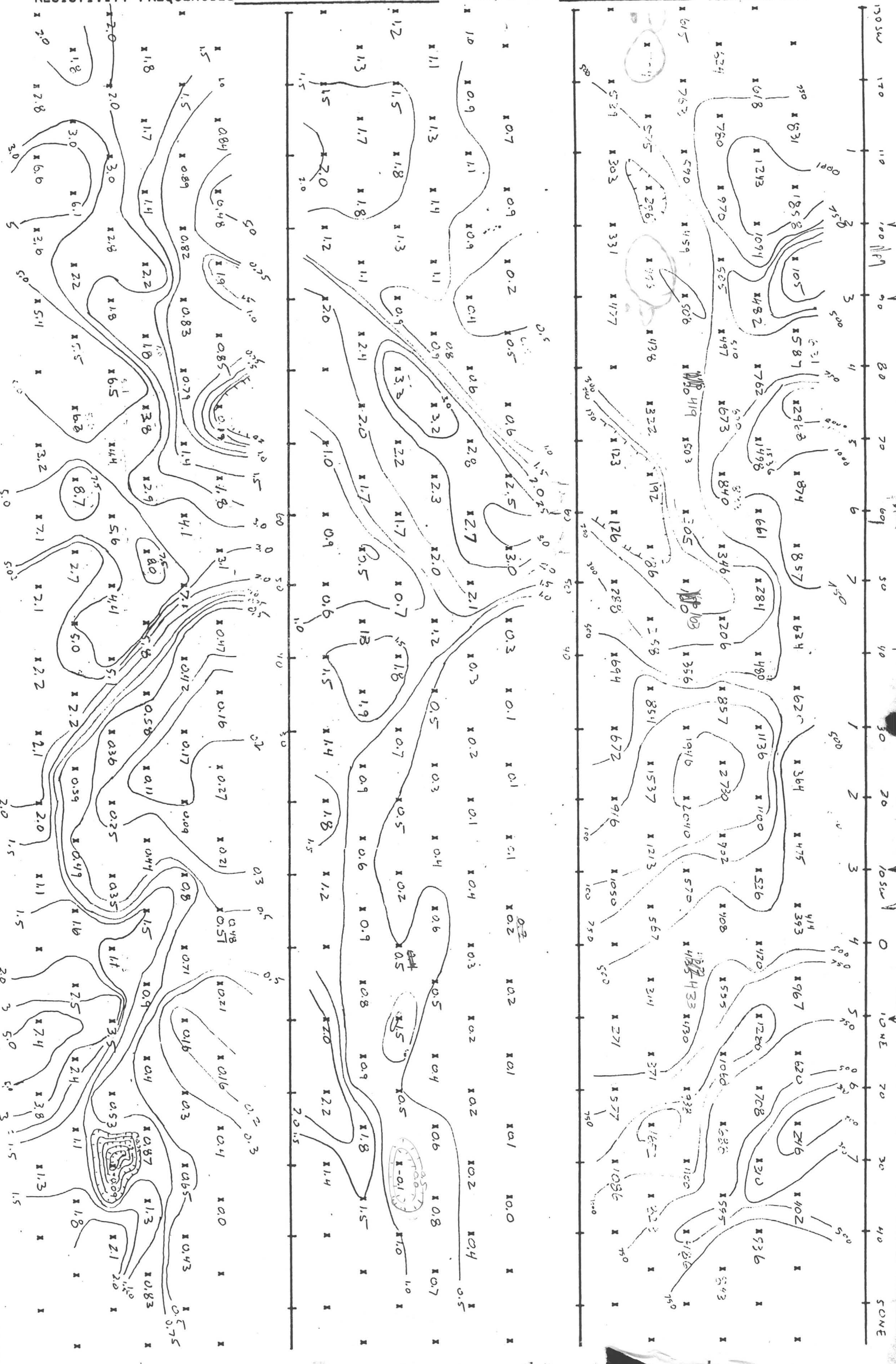
JOB # 1545 CLIENT TI

DATE 9-28-81 AREA Mesa B Area

LINE# 2 SP 1 a= 1000 / 10000 BEARING N66E

RESISTIVITY FREQUENCIES 0.1 FREQUENCIES 1.0 & 0.1 Hz



PRESCOTT
NATIONAL FOREST
Limestone
Canyon
Red Hat Tank
Mine
Storm Seep
Mine
Pool Seep
Water Tank
T 19 N
R 3 W
R 2 W
MESA "A"
Picacho Butte 15'
32'30"
INTERIOR—GEOLOGICAL SURVEY, RESTON

St — 4/64

≈ 220' Redwall CAP

Suipi

15m Agat + JASPER

10m BLEACHED L.S.

2m To → Breccia

20-50cm Siderite

Scarnt

Silicified — Inst

line

Check →

1. United States Mine

2. Jerome United Verde Extention

Localized Section

MESA B

Lead 0.58 %
Silver 0.3 oz per ton

ditch by sender station

MESA A

Zink 1.6 % in Hematite modules
16000 ppm

In stream

Lead 0.3 %
Arsn 0.25 %
Zink several hundred ppm

I. P. RECEIVER NOTES, JOB NO. 1545, AREA Mesa A

LINE 2, HALF E, SP. 1, a = 1000, BEARING 45°E + 57°W

SENDER STA. 0 = ELECTRODE NO. 4, DATE 10/9/81

PAGE 1

HEINRICHS GEOEX

SEND	CAL	1-2	2-3	1-2	2-3	3-4	1-2	2-3	3-4	4-5	
RECEIVE	CAL	0-106		0-106			25-306				
MULTIPLIER	1.0	10	10	1.0	1.0		1.0	1.0	1.0	10	
PFE	0	100.8	103	101	100		101	100	100	10	
CUR. (AMPS)	1	1.25	.95	1.25	.95	~~1.25~~	1.25	.95	.75	.65	
POINT NO.											
SEP. (n)		2	1	3	2	1	4	3	2	1	
H. F. MV	114	149	246	518	910		208	225	165	171	
DRIFT	0	0	0	0	0		+1	0	0	0	
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.		28.7		-28.7			+1.5				
NOISE	0	0	0	0	0		0	0	0	0	
POT RES.		14		34			4.5				
CULT & CMTS											

I. P. RECEIVER NOTES, JOB NO. 1545, AREA Mesa A

LINE 2, HALF E, SP. 1, a = 1000, BEARING 115°E & 5°W

SENDER STA. 0 = ELECTRODE NO. 4, DATE 10/8/81

PAGE 2

HEINRICHS GEOEX

SEND		1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5	5-6
RECEIVE		30-40E					40-50E				
MULTIPLIER		0.1	0.1	0.1	1.0	10	1.0	1.0	1.0	1.0	10
PFE		+1.3									
CUR. (AMPS)		1.25	.95	.75	.65	1.0	1.25	.95	.75	.65	1.0
POINT NO.											
SEP. (n)		5	4	3	2	1	6	5	4	3	2
H. F. MV											
DRIFT		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										
3.0 MV	$\rho/2\pi$										
DRIFT	MCF										
S. P.		±1.4					0				
NOISE		±1	0	0	0	0	±1	±1	0	0	0
POT RES.		6					6				
CULT & CMTS							NOTE	MV	CHANGE		

I. P. RECEIVER NOTES, JOB No. 1595, AREA Mesa A

LINE 2, HALF E, SP. 1, a = 1000', BEARING N59E-59SW

SENDER STA. 0 = ELECTRODE No. 4, DATE 10/8/81

PAGE 3

HEINRICHS GEOEX

SEND	6-7	2-3	3-4	4-5	5-6	6-7	3-4	4-5	5-6	6-7
RECEIVE		50-60E					60-70E			
MULTIPLIER	100	0.1	0.1	1.0	1.0	10	0.1	0.1	1.0	10
PFE	10.2	+0.9	11.4	+1.4	10.7	10.9	10.3	11.4	10.8	
CUR. (AMPS)	3.5	.95	.75	.65	1.0	3.5	.75	.65	1.0	3.5
POINT NO.										
SEP. (n)	1	2	3	4	5	6	6	5	4	3
H. F. MV	6100	4.88	1.64	11.5	20.1	21	3.96	65.1	19.5	16
DRIFT	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										
3.0 MV $\rho/2\pi$										
DRIFT MCF										
S. P.		-0.8					+3.9			
NOISE	0	+1	+1	0	0	0	+3	0	0	0
POT RES.		8					10			
CULT & CMTS		566	Sub wire fence		455					

I. P. RECEIVER NOTES, JOB No. 1545, AREA Rosa A

LINE 2, HALF 6, SP. 1, a = 1000', BEARING 099°-099°

SENDER STA. 0 = ELECTRODE No. 4, DATE 10/8/81

PAGE 4

HEINRICHS GEOEX

SEND	4-5	5-6	6-7		5-6	5-6	6-7	3-4	7	5-6
RECEIVE	10-40E				0-10W	10-20W	20-30W		10-40W	
MULTIPLIER	0.1	0.1	1.0		1.0	1.0	1.0	1.0	1.0	1.0
PFE										
CUR. (AMPS)	.65	1.0	1.5		1.0	.95	2.5	.72	3.5	.95
POINT No.										
SEP. (n)	6	5	4		1	2	4	1	5	4
H. F. MV		.05			305					
DRIFT	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										
3.0 MV / $\rho/2\pi$										
DRIFT / MCF										
S. P.	-25.7				-11.0	+25.6	-14.7		-3.7	
NOISE	32	X,V	0		0	0	0	0	0	0
POT RES.	30				18	29	23		23	
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 1545, AREA Mosa A

LINE 2, HALF 2, SP. 1, a = 1000, BEARING N54E° S74W

SENDER STA. 0 = ELECTRODE No. 4, DATE 10/9/81

PAGE 5

HEINRICHS GEOEX

SEND	4-5	3-4	2-3	6-1	5-6	4-5	3-4	2-3	1-2	5-6
RECEIVE				40-50						50-60
MULTIPLIER	1.0	1.0	10	1.0	1.0	1.0	1.0	10	10	0.1
PFE	10.9	10.4	10.6	11.8	11.8	11.3	11.1	10.4	10.8	11.4
CUR. (AMPS)	.59	.72	.90	3.5	.95	.59	.71	.90	1.25	.95
POINT NO.										
SEP. (n)	3	2	1	6	5	4	3	2	1	6
H. F. MV	119	46.5	27.4	28.1	14.8	19.5	33.8	156	545	166
DRIFT	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										
3.0 MV $\rho/2\pi$										
DRIFT MCF										
S. P.				+5.0						-19.8
NOISE	0	0	0	0	0	0	0	0	0	±1
POT RES.				13.5						27
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 1545, AREA Mosa A

LINE 2, HALF (2), SP. 1, a = 1000', BEARING 059°E 574W

SENDER STA. 0 = ELECTRODE No. 4, DATE 10/ /81

PAGE 6

HEINRICHS GEOEX

SEND	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2	3-4	2-3
RECEIVE					60-72W				70-82W	
MULTIPLIER	0.1	0.1	1.0	1.0	0.1	0.1	0.1	1.0	0.1	0.1
PFE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
CUR. (AMPS)	.59	.71	.90	1.25	.59	.71	.90	1.25	.71	.90
POINT No.										
SEP. (n)	5	4	3	2	6	5	4	3	2	6
H. F. MV	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DRIFT	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										
3.0 MV / $\rho/2\pi$										
DRIFT / MCF										
S. P.					[illegible]				[illegible]	
NOISE	0	0	0	0	±3	±2	0	0	±5	±1
POT RES.					26				105	
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 1545, AREA Mesa A

LINE 2, HALF W, SP. 1, a = 1000', BEARING N59°E 579

SENDER STA. 0 = ELECTRODE NO. 4, DATE 10/9/81

PAGE 7

HEINRICHS GEOEX

SEND		FV	CAL								
RECEIVE		—	CAL								
MULTIPLIER		0.1	1.0								
PFE		+1.0	0								
CUR. (AMPS)		1.25	1								
POINT NO.											
SEP. (n)		4	—								
H. F. MV		9.1	μμ								
DRIFT			0								
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.		—	—								
NOISE		1.1	0								
POT RES.		—	—								
CULT & CMTS											

I. P. SENDER NOTES

PAGE 1

HEINRICHS GEOEX

JOB NO. 1845 AREA Mesa A

LINE 2, HALF 6, SP. 1, DATE 10/8/81

SEND	CAL	1-2	2-3	1-2	2-3	3-4	1-2	2-3	3-4	4-
RECEIVE	CAL	0-10E	—	10-30E	—	—	20-30E	—	—	—
RANGE		2B	—	—	—		2B	—	—	
VOLTAGE		720	820	780	820		780	820	820	840
CURRENT		125	95	125	95		125	95	75	[illegible]
SEND	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5	5-6
RECEIVE	20-40E	—	—	—	—	40-50E	—	—	—	—
RANGE	—	—	—	—	—	—	—	—	—	—
VOLTAGE	720	820	820	830	770	770	820	820	730	760
CURRENT	125	75	75	75	1	125	75	75	75	1

FREQUENCIES	1-2-4
SENDER NO.	1162
OPERATOR	Hardy
RECEIVER NO.	1
OPERATOR	Zeller

POWER UNIT ID	B-5
HOURS RUN	1

COMMENTS:

I. P. SENDER NOTES

JOB NO. 1545 AREA Mesa A

LINE 2, HALF E, SP. 1, DATE 10/8/81

PAGE 2

HEINRICHS GEOEX

SEND	6-7	2-3	3-4	4-5	5-6	6-7	3-4	4-5	5-6	6-7
RECEIVE	—	50-60E	—	—	—	—	60-70E	—	—	—
RANGE	C-4	B-2	~~[illegible]~~	—	—	C-4	B-2	—	—	C-4
VOLTAGE	250	820	820	820	750	250	820	820	750	250
CURRENT	3.5	.95	.75	.65	1	3.5	.75	.60	1	3.5
SEND	4-5	5-6	6-7	5-6	Cal		Cal	5-6	6-7	3-4
RECEIVE	70-80E	—	—	0-10W	Cal		Cal	10-20W	20-30W	—
RANGE	B-2	—	C-4	B-2			4-C	~~B-2~~	C-4	B-2
VOLTAGE	810	730	250	420			80	830	260	840
CURRENT	.65	1	3.5	1			1	.95	3.5	.72

FREQUENCIES	1.0-0.1		
SENDER NO.	9662	POWER UNIT ID	
OPERATOR	Wahl	BASETIN	
RECEIVER NO.	S. Dang	HOURS RUN	
OPERATOR	Zellerd	4	

COMMENTS: Barbed Wire Fence 56 E.

I. P. SENDER NOTES

JOB NO. 1542 AREA Mesa A.

LINE 2, HALF W, SP. 1, DATE 10/9/82

PAGE 3

HEINRICHS GEOEX

SEND	6-7	5-6	4-5	3-4	2-3	6-7	5-6	4-5	3-4	2-3
RECEIVE	30-40w					40-50w				
RANGE	C-4	B-2				C-4	B-2			
VOLTAGE	260	825	845	840	820	255	825	840	840	830
CURRENT	3.5	.90	.59	.72	.9	3.5	.96	.59	.71	.90
SEND	1-2	5-6	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2
RECEIVE		50-60w					60-70w			
RANGE										
VOLTAGE	790	820	840	840	830	790	840	840	825	790
CURRENT	1.25	.95	.59	.71	.90	1.25	.59	.72	.9	1.25

FREQUENCIES 1.0-0.1

SENDER NO. 9662	POWER UNIT ID
OPERATOR Wahl	B+S EJN2
RECEIVER NO. 5 Dange	HOURS RUN
OPERATOR Zeller	2

COMMENTS:

I. P. SENDER NOTES

JOB NO. 1045 AREA Mesa A

LINE 2, HALF W, SP. 1, DATE 10/9/82

PAGE 4

HEINRICHS GEOEX

SEND	3-4	2-3	1-2	Cal						
RECEIVE	26-80m			Cal						
RANGE				4C						
VOLTAGE	830	820	785							
CURRENT	.8	.9	1.25	1						
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES	0.1-1.0		COMMENTS:
SENDER NO.	9662	POWER UNIT ID	
OPERATOR	WHW	HSETN'A	
RECEIVER NO.	7 Rwm	HOURS RUN	
OPERATOR	Z-Rew		

I. P. RECEIVER NOTES, JOB NO. 1545, AREA Mesa A

LINE 1, HALF N, SP. 1, a = 1000, BEARING S15E

SENDER STA. 20S = ELECTRODE NO. 2, DATE 5/17/81

PAGE 1

HEINRICHS GEOEX

SEND	CAL	1-2	2-3	1-2	2-3	3-4	1-2	2-3	3-4	4-5	
RECEIVE	CAL	0-10N		10-20N			20-30N				
MULTIPLIER	1.0	1.0	10	1.0	1.0	10	0.1	1.0	1.0	10.0	
PFE	S 98.5 98.1D	10.6	2.6	10.3	10.9	10.6	0.33	1.1	10.9	1.1	
CUR. (AMPS)	1	0.5	0.55	0.5	0.55	0.75	0.5	0.55	.75	1.4	
POINT NO.											
SEP. (n)		2	1	3	2	1	4	3	2	1	
H. F. MV	S 98.5 98.1D	11	100	13.4	61	21	8.26	24	93.6	7.6	
DRIFT	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											
3.0 MV $\rho/2\pi$											
DRIFT MCF											
S. P.		-11.0		+22.2			+15.6				
NOISE	0	0	0	0	0	0	1	0	0	0	
POT RES.		12		19			116				
CULT & CMTS											

I. P. RECEIVER NOTES, JOB No. 1545, AREA Mesa A

LINE 1, HALF N, SP. 1, a = 1000', BEARING S15°E

SENDER STA. 205 = ELECTRODE No. 2, DATE 9/17/81

PAGE 2

HEINRICHS GEOEX

SEND	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5	5-6
RECEIVE	30-40N					40-50				
MULTIPLIER	0.1	1.0	1.0	10	10	0.1	0.1	1.0	1.0	10
PFE	+1.1	+1.1	+1.0	+0.7	+0.7	+1.3	+0.9	+1.1	+1.0	0.2
CUR. (AMPS)	0.5	0.55	.75	1.4	1.5	0.5	0.55	0.75	1.4	1.5
POINT NO.										
SEP. (n)	5	4	3	2	1	6	5	4	3	2
H. F. MV	4.1	15.7	36.4	169	1686	2.36	4.19	17.8	71.2	184
DRIFT	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										
3.0 MV / $\rho/2\pi$										
DRIFT / MCF										
S. P.	-35.5					-29				
NOISE	±2	0	0	0	0	±2	0	1	0	0
POT RES.	24					3				
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 1545, AREA Mesa A

LINE 1, HALF N, SP. 1, a = 100', BEARING S15°E

SENDER STA. 205 = ELECTRODE No. 2, DATE 9/17/81

PAGE 3

HEINRICHS GEOEX

SEND	6-7	2-3	3-4	4-5	5-6	6-7	3-4	4-5	5-6	6-7
RECEIVE		50-60N					60-70			
MULTIPLIER	10	0.1	0.1	1.0	1.0	10	0.1	1.0	1.0	1.0
PFE	0.4	1.3	1	1.1	0.9	0.9	1.2	1.3	1.2	1
CUR. (AMPS)	1	0.55	0.75	1.4	1.5	1.0	.75	1.4	1.5	1.0
POINT NO.										
SEP. (n)	1	6	5	4	3	2	6	5	4	3
H. F. MV	10.4	5.63	1.67	24.8	55.1	119	4.01	12.6	27.3	7
DRIFT	0	0	0	0	0	0	0	+1	0	0
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.		-8.0					-14.5			
NOISE	0	±1	±1	0	0	0	±1	0	±1	0
POT RES.		10					13			
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 1545, AREA Mesa A

LINE 1, HALF 5, SP. 1, a = 1000, BEARING S/5E

SENDER STA. 205 = ELECTRODE No. 2, DATE 9/17/81

PAGE 4

HEINRICHS GEOEX

SEND		1-7	4-5	6-7	3-4	CAL		CAL	6-7	6-7	3-4
RECEIVE		0-105	10-205	20-305	—	CAL		CAL	20-305	30-405	—
MULTIPLIER		10	10	1.0	10	1.0		10	1.0	0.1	1.0
PFE		10.8	10.6	[illegible]	10.4	0		0	3.13	0.310	[illegible]
CUR. (AMPS)		1	1.4	1.4	.75	1		1	1	1	1.5
POINT No.											
SEP. (n)		2	1	4	1				4	5	4
H. F. MV		134	115	156	151	99.6		116	173	24	207
DRIFT		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										
3.0 MV	$\rho/2\pi$										
DRIFT	MCF										
S. P.		-11.1	+32.9	-10	—				+1.5	+15.5	—
NOISE		0	0	±1	0	0		0	0	±1	0
POT RES.		11.5	34.5	10	—				4	16	—
CULT & CMTS											

I. P. RECEIVER NOTES, JOB NO. 1545, AREA Mesa A

LINE 1, HALF S, SR. 1, a = 1000', BEARING S15E

SENDER STA. 205 = ELECTRODE NO. 2, DATE 9/18/81

PAGE 5

HEINRICHS GEOEX

SEND	1-5	3-4	2-3	6-7	5-6	4-5	3-4	2-3	1-2	5-6
RECEIVE				40-60S						50-60S
MULTIPLIER	1.0	1.0	1.0	0.1	1.0	1.0	1.0	1.0	1.0	1.0
PFE	10	10.8	11.7	10.9	11.3	11.1	11.0	11.0	10.3	11.5
CUR. (AMPS)	1.4	0.75	0.55	1	1.5	1.4	0.75	0.55	0.5	1.5
POINT NO.										
SEP. (n)	3	2	1	6	5	4	3	2	1	6
H. F. MV	4.3	5.4	7.4	6.35	11.3	21.1	24.0	8.1	1.8	
DRIFT	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										
3.0 MV / $\rho/2\pi$										
DRIFT / MCF										
S. P.				-20.6						+33.4
NOISE	0	0	0	±3	0	0	±1	0	0	±1
POT RES.				2V						36
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 5-15, AREA Mesa A

LINE 1, HALF 5, SP. 1, a = 1600, BEARING S15E

SENDER STA. 205 = ELECTRODE NO. 2, DATE 9/14/81

PAGE 6

HEINRICHS GEOEX

SEND	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2	CAL	
RECEIVE					6-7				CAL	
MULTIPLIER	1.0	1.0	1.0	1.0	0.1	0.1	1.0		1.0	
PFE	+1.9	+1.7	+1.8	+0.9	+2.2	+1.7	+1.5	+0.5	0	
CUR. (AMPS)	1.4	0.75	0.55	0.5	1.4	0.75	0.55	0.5	1	
POINT NO.										
SEP. (n)	5	4	3	2	6	5	4	3		
H. F. MV	25.4	26.0	14.5	6.3	2.0	1.5	5.49	12.9	12.8	11.6
DRIFT	0	0	0	0	0	0	0	0		
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.					-16.5					
NOISE	0	1	0	0	2	2	0	0	0	
POT RES.					17					
CULT & CMTS										

I. P. SENDER NOTES

JOB No. 1543 AREA Mesa A

LINE 1 (4-5), HALF N, SP. 1, DATE 9/17/81

PAGE 1

HEINRICHS GEOEX

SEND Cal	1-2	2-3	1-2	2-3	3-4	1-2	2-3	3-4	4-5	1-2
RECEIVE Cal	0-10N.		10-20N			20-30N				30-40N.
RANGE low										
VOLTAGE 525	840	770	840	770	720	840	770	720	730	840
CURRENT 1	.5	.55	.5	.55	.75	.5	.55	.75	1.4	.5
SEND	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5	5-6	6-7
RECEIVE					40-50N.					
RANGE										
VOLTAGE	770	720	730	740	830	770	720	730	740	660
CURRENT	.55	.75	1.4	1.5	.5	.55	.75	1.4	1.5	1

FREQUENCIES 30-0.3

SENDER No. 9662 | POWER UNIT ID

OPERATOR Wahl | B45 EJN2

RECEIVER No. Re Dump | HOURS RUN

OPERATOR Zeller | 2

COMMENTS:

I. P. SENDER NOTES

JOB No. 1543 AREA Mesa A

LINE 1, HALF N, SP. 1, DATE 9/17/81

PAGE 1

HEINRICHS GEOEX

SEND Cal	1-2	2-3	1-2	2-3	3-4	1-2	2-3	3-4	4-5	1-2
RECEIVE Cal	0-10N		10-20N			20-30N				30-40N
RANGE low										
VOLTAGE 52	840	770	840	770	720	840	770	720	730	840
CURRENT 1	.5	.55	.5	.55	.75	.5	.55	.75	1.4	.5
SEND	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5	5-6	6-7
RECEIVE					40-50N					
RANGE										
VOLTAGE	770	720	730	740	830	770	720	730	740	660
CURRENT	.55	.75	1.4	1.5	.5	.55	.75	1.4	1.5	1

FREQUENCIES	30-0.3
SENDER No.	9662
OPERATOR	Wahl
RECEIVER No.	2-1)8K
OPERATOR	Zellers
POWER UNIT ID	940 EJN2
HOURS RUN	2

COMMENTS:

I. P. SENDER NOTES

JOB No. 1543 AREA Mesa A.

LINE 1, HALF N, SP. 1, DATE 9/17/88

PAGE 2

HEINRICHS GEOEX

4-5?

SEND	2-3	3-4	4-5	5-6	6-7	3-4	4-5	5-6	6-7	6-7
RECEIVE	50-60%					60-70%				0-40%
RANGE										
VOLTAGE	770	710	730	740	660	710	720	740	660	660
CURRENT	.55	.75	1.4	1.5	1	.75	1.4	1.5	1	1
SEND	4-5	6-7	3-4	Cal		Cal	6-7	6-7	5-6	4-5
RECEIVE	10-20%	20-30%		Cal		Cal	20-30%	30-40%		
RANGE										
VOLTAGE	720	660	710	520		536	700	700	760	720
CURRENT	1.4	1	.75	1		1	1	1	1.5	1.4

FREQUENCIES	3.0 - 6.3	COMMENTS:	
SENDER No.	9662	POWER UNIT ID	
OPERATOR	Wahl	B45 EJN2	
RECEIVER No.	R. Dancy	HOURS RUN	
OPERATOR	Zeller	2	

I. P. SENDER NOTES

JOB No. 1543 AREA Mesa A.

LINE L, HALF N, SP. L, DATE 9/17/81

PAGE 2

HEINRICHS GEOEX

SEND	2-3	3-4	4-5	5-6	6-7	3-4	4-5	5-6	6-7	6-7
RECEIVE	50-60N					60-70N				0-10
RANGE										
VOLTAGE	770	710	730	740	660	740	720	740	660	660
CURRENT	1.5	1.3	1.4	1.5	1	1.5	1.4	1.5	1	1
SEND	4-5	6-7	5-6	Cal		Cal	6-7	6-7	5-6	4-5
RECEIVE	10-20S	20-30S		Cal		Cal	20-30	30-40S		
RANGE										
VOLTAGE	720	660	710	520		530	700	700	760	720
CURRENT	1.4	1	.75	1		1	1	1	1.5	1.4

FREQUENCIES	3.0 - 0.3
SENDER No.	9662
OPERATOR	Wahl
RECEIVER No.	P. Lamy
OPERATOR	Zeller
POWER UNIT ID	643 ETN2
HOURS RUN	2

COMMENTS:

I. P. SENDER NOTES

JOB No. 1545 AREA Mesa A

LINE 1, HALF S, SP. 1, DATE 9/18/81

PAGE 3

HEINRICHS GEOEX

SEND	3-4	2-3	6-7	5-6	4-5	3-4	2-3	1-2	5-6	4-5
RECEIVE			40-50S						50-60S	
RANGE										
VOLTAGE	760	800	690	760	740	750	800	860	760	740
CURRENT	.75	.55	1	1.5	1.4	.75	.55	.5*	1.5	1.4
SEND	3-4	2-3	1-2	4-5	3-4	2-3	1-2	CAL		
RECEIVE				60-70S				CAL		
RANGE										
VOLTAGE	755	800	860	740	740	800	850	520		
CURRENT	.75	.55	.5*	1.4	.75	.55	.5*	1		

FREQUENCIES 3.0-0.3

SENDER No. 9662 POWER UNIT ID

OPERATOR Horbatt B&S EJN2

RECEIVER No. D. Damp HOURS RUN

OPERATOR Zeller

COMMENTS:

I. P. SENDER NOTES

JOB NO. 154 AREA Mesa A

LINE 1, HALF 5, SP. 1, DATE 9/18/81

PAGE 3

HEINRICHS GEOEX

SEND	3-4	2-3	6-7	5-6	4-5	3-4	2-3	1-2	5-6	4-5
RECEIVE			40-50S						30-60S	
RANGE										
VOLTAGE	760	800	690	760	740	750	800	860	760	740
CURRENT	.75	.55								
SEND	3-4	2-3	1-2	4-5	3-4	2-3	1-2	CAL		
RECEIVE				60-90S				CAL		
RANGE										
VOLTAGE	755	800	860	740	740	800	850	520		
CURRENT	.75	.55	.5							

FREQUENCIES 3.0-0.3

SENDER NO. 9663	POWER UNIT ID
OPERATOR Horbatt	Bes FIN2
RECEIVER NO. D. Dame	HOURS RUN
OPERATOR Zeller	

COMMENTS:

I. P. RECEIVER NOTES, JOB No. 1545, AREA Mesa B

LINE 2, HALF E, SR 1, a = 1000, BEARING N66E

SENDER STA. 0 = ELECTRODE No. 4, DATE 9/29/81

PAGE 1

HEINRICHS GEOEX

SEND	CAL	1-2	2-3	1-2	2-3	3-4	1-2	2-3	3-4	4-5	
RECEIVE	CAL	0-10E		10-20E			20-30E				
MULTIPLIER	1.0	1.0	10	1.0	1.0	10	1.0	1.0	10	10	
PFE	0	0.4	0.2	0.6	0.2	0.1	0.5	0.3	0.7	0.7	
CUR. (AMPS)	1	2	3	2	3	3	2	3	3	3	
POINT NO.											
SEP. (n)	1	2	1	3	2	1	4	3	2	1	
H. F. MV	101	271	273	214	103	96	145	255	320	120	
DRIFT	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											
3.0 MV $\rho/2\pi$											
DRIFT MCF											
S. P.		12.4		12.7			13.4				
NOISE	0	0	0	0	0	0	3	0	0	0	
POT RES.		14.5		2.5			4				
CULT & CMTS											

I. P. RECEIVER NOTES, JOB NO. 1545, AREA Mesa B

LINE 2, HALF E, SP. J, a = 1000', BEARING N66°E

SENDER STA. 0 = ELECTRODE NO. 4, DATE 9/29/81

PAGE 2

HEINRICHS GEOEX

SEND	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5	5-6
RECEIVE	30-40					40-50				
MULTIPLIER	0.1	1.0	1.0	10	10	0.1	0.1	1.0	1.0	1.0
PFE	0.56	1.52	0.4	0.4	10.0	2.00	10.9	10.5	10.2	11.4
CUR. (AMPS)	2	3	3	3	2	2.2	3	3	3	2
POINT NO.										
SEP. (n)	5	4	3	2	1	6	5	4	3	2
H. F. MV	11.9	11.5	11.8	11.1	4	10.5	10.6	11.9	11.4	11.4
DRIFT	0	0	0	0	+1.5	0	0	0	0	0
1.0 PFE $K_n/1000$										
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_C										
3.0 MV $\rho/2\pi$										
DRIFT MCF	2.5	3.5	0.4	0.3	0.4	2.4	2.4	0.53	0.67	0.65
S. P.	+13.4					-27.6				
NOISE	±2	0	0	0	0	±2	±1	0	0	0
POT RES.	14.5					26				
CULT & CMTS						1.47 m from left bottom Line				20+

I. P. RECEIVER NOTES, JOB No. 1545, AREA Mesa B

LINE 2, HALF E, SP. 1, a = 1000, BEARING N 60E

SENDER STA. 0 = ELECTRODE No. 4, DATE 9/29/81

PAGE 3

HEINRICHS GEOEX

SEND	6-7	2-3	3-4	4-5	5-6	6-7	3-4	4-5	5-6	6-7
RECEIVE		50-60E					60-70E			
MULTIPLIER	10	0.1	1.0	1.0	1.0	10	1.0	1.0	1.0	10
PFE	0.0	12.0	1.00	-0.1	1.0	0.9	11.4	1.5	1.0	0.4
CUR. (AMPS)	2	3	3	3	2	2	3	3	2	2
POINT NO.										
SEP. (n)	1	6	5	4	3	2	6	5	4	3
H. F. MV		10.3	42.1	35.0	39.9	15.6	14.9	23.5	10.2	5.6
DRIFT	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										
3.0 MV $\rho/2\pi$										
DRIFT MCF	40	3.8	4.1	-0.09	4.3	0.43	4.29	4.8	3.1	3.83
S. P.		121.9					-5.5			
NOISE	0	±2	0	0	0	0	±1	0	±1	0
POT RES.		21					3			
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 1545, AREA Moser B

LINE 2, HALF W, SP. 1, a = 1000', BEARING N 66°E

SENDER STA. 0 = ELECTRODE NO. 4, DATE 9/19/61

PAGE 4

HEINRICHS GEOEX

SEND	6-7	4-5	6-7	3-4	6-7	5-6	4-5	3-4	2-3	CDA	
RECEIVE	0-10W	10-20W	20-30W		30-40W					CAL	
MULTIPLIER	10	10	10	10	1.0	1.0	1.0	10	10	10	
PFE	25.0	10.2	10.4	10.1	10.1	10.2	10.4	10.1	10.1	0	
CUR. (AMPS)	2	3	2	3	2	2	3	3	3	1	
POINT NO.											
SEP. (n)	2	1	4	1	5	4	3	2	1		
H. F. MV	13.4	11.4	14.4	11.5	12.1	11.0	10.2	21.5	31.4	10	
DRIFT	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											
3.0 MV $\rho/2\pi$											
DRIFT MCF		0.48	0.93	1.20	1.6	0.35	0.41	0.69	0.67		
S. P.	+2.5	+17.5	+7.4		-3.2						
NOISE	0	0	0	0	2.2	+1	0	0	0	0	
POT RES.	4.5	12	8		4						
CULT & CMTS											

I. P. RECEIVER NOTES, JOB NO. 1545, AREA Mesa B

LINE 2, HALF W, SP. 1, a = 1000, BEARING N66°E

SENDER STA. 0 = ELECTRODE NO. 4, DATE 9/30/81

PAGE 5

HEINRICHS GEOEX

SEND	CAL	6-7	5-6	4-5	3-4	2-3	1-2	5-6	4-5	3-4	
RECEIVE	CAL	40-50						50-60			
MULTIPLIER	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	1.0	1.0	
PFE	0.0	+1.2	+0.6	+0.5	+0.3	+0.2	+0.1	+1.8	+0.9	+0.7	
CUR. (AMPS)	1	2	2	3	3	3	2	2	3	3	
POINT NO.											
SEP. (n)	7	6	5	4	3	2	1	6	5	4	
H. F. MV	101	123	121	104	135	149	110	89	43	175	
DRIFT	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											
3.0 MV $\rho/2\pi$											
DRIFT MCF											
S. P.		-24.7						+5.0			
NOISE	0	0	0	0	0	0	0	±2	0	0	
POT RES.		32						5			
CULT & CMTS								Bad wire			

45°

I. P. RECEIVER NOTES, JOB No. 1545, AREA Mesa B

LINE V, HALF W, SP. 1, a = 1000, BEARING N 66° E

SENDER STA. D = ELECTRODE No. 4, DATE 9/30/81

PAGE 6

HEINRICHS GEOEX

SEND	2.3	1.2	0.5	3.4	2.3	1.2	3.4	2.3	1.2	2.3
RECEIVE			60-70				70-80			80-90
MULTIPLIER	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	0.1	0.1
PFE	10.3	10.2	11.1	11.9	11.8	11.7	11.5	11.3	+0.7	0.0
CUR. (AMPS)	3	2	3	3	3	2	3	3	2	3
POINT No.										
SEP. (n)	3	3	6	5	4	3	6	5	4	6
H. F. MV	11.7	9.2	12.0	22.1	17.4	13.7	11.1	1.58	5.22	2.1
DRIFT	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										
3.0 MV / $\rho/2\pi$										
DRIFT / MCF										
S. P.			-9.8				+2.2			+4.0
NOISE	0	0	±1	0	±0.1	±1	±1	±3	±2	±3
POT RES.			10				7.5			4
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 1545, AREA Mesa B

LINE 2, HALF W, SP. 1, a = 1000, BEARING N66E

SENDER STA. 0 = ELECTRODE No. 4, DATE 9/30/81

PAGE 7

HEINRICHS GEOEX

SEND	1.2	CAL								
RECEIVE		CAL								
MULTIPLIER	0.1	1.0								
PFE	0.3	0								
CUR. (AMPS)	2	1								
POINT No.										
SEP. (n)	5	—								
H. F. MV	3.57	0.1								
DRIFT	0	71								
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.										
NOISE	25	0								
POT RES.										
CULT & CMTS										

I. P. SENDER NOTES

JOB No. 1545 AREA Mesa B

LINE 2, HALF E, SP. 1, DATE 9/29/81

PAGE 1

HEINRICHS GEOEX

SEND	Cu	1-2	2-3	1-2	2-3	3-4	1-2	2-3	3-4	4-5
RECEIVE	Cu	0-10E	—	10-20E	—	—	30-30E	—	—	—
RANGE	2-lo	2-Hi	4-hi	2-hi	4-hi	2-Hi	2	4-hi	2-hi	—
VOLTAGE	120	460	265	460	265	350	460	260	350	400
CURRENT	1	2	3	2	3	3	2	3	3	3
SEND	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5	5-6
RECEIVE	30-40E	—	—	—	—	40-50E	—	—	—	—
RANGE	—	4-hi	2-hi	—	—	—	4-hi	2 hi	—	—
VOLTAGE	460	265	350	400	325	455	260	340	395	320
CURRENT	2	3	3	3	2	2	3	3	3	2

FREQUENCIES	1.0 - 0.1		
SENDER No.	9662	POWER UNIT ID	
OPERATOR	Wahl	B&S ETN2	
RECEIVER No.	D. Hamp	HOURS RUN	
OPERATOR	Zc Hall		

COMMENTS:

I. P. SENDER NOTES

JOB No. 1543 AREA Mesa B

LINE 2, HALF E, SP. 1, DATE 9/29/81

PAGE 2

HEINRICHS GEOEX

SEND	6-7	2-3	3-4	4-5	5-6	6-7	3-4	4-5	5-6	6-7
RECEIVE		50-60E					60-70E			
RANGE	2-lo	4-hi	2-hi			2-lo	2-hi			2-lo
VOLTAGE	660	260	340	395	320	660	340	395	320	660
CURRENT	2	2	3	3	2	2	3	3	2	2
SEND			6-7	4-5	6-7	3-4	6-7	5-6	4-5	3-4
RECEIVE			0-10w	10-20w	20-30w		30-40w			
RANGE			2-lo	2-hi	2-lo	2-hi	2-lo	2-hi		
VOLTAGE			655	390	645	340	640	315	385	335
CURRENT			2	3	2	3	2	2	3	3

FREQUENCIES	1.0-0.1
SENDER No.	662
OPERATOR	Wahl
RECEIVER No.	D. Dump
OPERATOR	Zeller
POWER UNIT ID	843 ETN2
HOURS RUN	2

COMMENTS:

I. P. SENDER NOTES

JOB No. 1545 AREA Mesa B

LINE 2, HALF W, SP. 1, DATE 9/29/82

PAGE 3

HEINRICHS GEOEX

SEND	2-3	Cal		Cal	6-7	5-6	4-5	3-4	2-3	1-2
RECEIVE		Cal		Cal	40-70w					
RANGE	4-hi	2-lo		2-hi	2-lo	2-hi			4-hi	2-hi
VOLTAGE	255	115		115	650	320	400	340	260	450
CURRENT	1	1		1	1	1	3	3	3	2
SEND	5-6	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2	3-4
RECEIVE	50-60w				60-70w					70-80w
RANGE	2-hi			4-hi	2-hi			4-hi	2-hi	
VOLTAGE	320	400	340	260	450	390	340	260	450	340
CURRENT	1	3	3	2	2	3	3	3	2	3

FREQUENCIES	1.0-0.1		
SENDER No.	9662	POWER UNIT ID	
OPERATOR	Wahl	B&S E-3112	
RECEIVER No.	Damp	HOURS RUN	
OPERATOR	Zellew	0	

COMMENTS:

I. P. SENDER NOTES

JOB NO. 1543 AREA Mesa B

LINE 2, HALF W, SP. 2, DATE 9/30/81

PAGE 4

HEINRICHS GEOEX

SEND	2-3	1-2	2-3	1-2	1 2	Cal				
RECEIVE			80-90 W		90-100	Cal				
RANGE	4-hi	2-hi	4 HI	2 HI		2-Hi				
VOLTAGE	260	440	260			115				
CURRENT	3	4	3	2	2	1				
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES	10-0.1
SENDER NO.	9667
OPERATOR	Wahl
RECEIVER NO.	P. Dunn
OPERATOR	Schlieb
POWER UNIT ID	B45 EJN2
HOURS RUN	

COMMENTS:

I. P. SENDER NOTES

JOB No. 1545 AREA MESA B

LINE 1, HALF EAST, SP. 2, DATE 9-24-81

PAGE 1

HEINRICHS GEOEX

SEND	CAL	1-2	2-3	1-2	2-3	3-4	1-2	2-3	3-4	4-5
RECEIVE	CAL	60-50	W	50-40	W		40-30	W		
RANGE	2B									
VOLTAGE	250	730	490	730	490	470	730	490	470	540
CURRENT	1	1.9	2	1.9	2	2	1.9	2	2	2
SEND	1-2	2-3	5-6	1-2	2-3	4-5	2-3	3-4	CAL	
RECEIVE	30-20	W		20-10	W		10-0	W	CAL	
RANGE	2B									
VOLTAGE	730	490	570	720	490	540	480	470	240	
CURRENT	1.9	2	2	1.9	2	2	2	2	1	

FREQUENCIES	
SENDER No. 76L25	POWER UNIT ID
OPERATOR HORBATT	BES LN12
RECEIVER No. D 2MM	HOURS RUN
OPERATOR ZELLER	0

COMMENTS:

I. P. SENDER NOTES

JOB NO. 1545 AREA Mesa B

LINE 1, HALF W, SP. 2, DATE 9/25/81

PAGE 2

HEINRICHS GEOEX

SEND	Cal	6-7 W	4-5	6-7	3-4	6-7	5-6	4-5	3-4	2-3
RECEIVE	Cal	60-90W	70-80W	80-90W	—	90-100W	—	—	—	—
RANGE	Low	—	—	—	—	—	—	—	—	—
VOLTAGE	265	465	565	465	510	460	580	560	500	510
CURRENT	1	2	2	2	2	2	2	2	2	2
SEND	6-7	5-6	4-5	3-4	2-3	1-2	5-6	4-5	3-4	2-3
RECEIVE	100-110W	—	—	—	—	—	110-120W	—	—	—
RANGE	—	—	—	—	—	—	—	—	—	—
VOLTAGE	460	580	560	500	510	740	580	560	495	510
CURRENT	2	2	2	2	2	1.9	2	2	2	2

FREQUENCIES 1.0 - 0.1

SENDER NO. 96625 — POWER UNIT ID

OPERATOR Wahl — 855 EJN2

RECEIVER NO. W. Chang — HOURS RUN

OPERATOR Zeller — 2

COMMENTS:

I. P. SENDER NOTES

PAGE 3

JOB No. 1545 AREA Mag. B

LINE 1, HALF W, SP. 2, DATE 7/25/81

HEINRICHS GEOEX

SEND	1-2	4-5	3-4	2-3	1-2	Cal				
RECEIVE		124-130				Cal				
RANGE										
VOLTAGE	740	560	440	505	740	250				
CURRENT	1.9	2	1	1	1.9	1				
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES	10-0.1
SENDER No.	9426
OPERATOR	Wahl
RECEIVER No.	17 Pam
OPERATOR	Zeller

POWER UNIT ID	BIS ET N1
HOURS RUN	

COMMENTS:

I. P. RECEIVER NOTES, JOB No. 1545, AREA Mesa B

LINE 1, HALF 5, SP. 2, a = 1000', BEARING N53W

SENDER STA. 300'SW = ELECTRODE No. 4, DATE 9/24/81

PAGE 1

HEINRICHS GEOEX

SEND	CAL	1-2	2-3	1-2	2-3	3-4	1-2	2-3	3-4	4-5
RECEIVE	CAL	60-50W	—	50-40W	—	—	50-30W	—	—	—
MULTIPLIER	1.0	1.0	1.0	1.0	1.0	10	1.0	1.0	1.0	10
PFE	0.1	0.3	0.2	0.3	0.2	0.2	0.4	0.2	0.2	0.1
CUR. (AMPS)	1	1.9	2	1.9	2	2	1.9	2	2	2
POINT No.										
SEP. (n)	—	2	1	3	2	1	4	3	2	1
H. F. MV	10	45	45	25	31	11	15	24	51	10
DRIFT	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										
3.0 MV $\rho/2\pi$										
DRIFT MCF										
S. P.		+24.1	—	-23	—	—	+29.0	—	—	—
NOISE	0	0	0	0	0	0	±1	0	0	0
POT RES.		16	—	23	—	—	26	—	—	—
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 545, AREA Mesa B

LINE 1, HALF E, SP. 2, a = 1000', BEARING N 53° W

SENDER STA. 300' SW = ELECTRODE No. 4, DATE 9/24/81

PAGE 2

HEINRICHS GEOEX

SEND		1-2	2-3	5-6	1-2	2-3	4-5	2-3	3-4	CAL	
RECEIVE		30-20W	—	—	20-10W	—	—	10-0W	—	CAL	
MULTIPLIER		0.1	0.1	10	0.1	1.0	1.0	0.1	1.0	1.0	
PFE		10.4	33	0.0	10.8	10.7	10.4	0.2	10.4	9	
CUR. (AMPS)		1.9	2	2	1.9	2	2	2	2	1	
POINT NO.											
SEP. (n)		5	4	1	6	5	3	6	5	7	
H. F. MV		1.3	1.1	1.3	1.7	1.8	4.4	3.1	1.5	1.0	
DRIFT		0	0	-1/2	0	0	0	0	0	0	
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.		-13.8	—	—	30.9	—	—	+9.8	—		
NOISE		±2	±1	0	±2	±1	0	±2	±2	0	
POT RES.		13	—	—	31	—	—	13	—		
CULT & CMTS											

I. P. RECEIVER NOTES, JOB NO. 1545, AREA Mesa B

LINE 1, HALF W, SP. 2, a = 1000, BEARING N53W

SENDER STA. 300 SW = ELECTRODE NO. 4, DATE 9/25/81

PAGE 3

HEINRICHS GEOEX

SEND	CAL	6-7	4-5	6-7	3-4	6-7	5-6	4-5	3-4	2-3
RECEIVE	CAL	60-70W	70-80W	80-90W	—	90-100W	—	—	—	—
MULTIPLIER	1.0	1.0	1.0	1.0	1.0	0.1	0.1	1.0	1.0	1.0
PFE	0	+0.2	+0.3	+0.4	+0.2	+0.4	+0.1	+0.3	+0.2	+0.2
CUR. (AMPS)	1	2	2	2	2	2	2	2	2	2
POINT NO.										
SEP. (n)		2	1	4	1	5	4	3	2	1
H. F. MV	196	553	98.8	143	110	168	93.9	149	21.7	24.7
DRIFT	-1/2	-1/2	0	0	-1/2	0	0	0	0	0
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.	—	-6.5	+15.1	-13.9	—	+45.6	—	—	—	—
NOISE	0	0	0	0	0	±1	±1	0	0	0
POT RES.	—	7	15	15	—	47	—	—	—	—
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 1545, AREA MESA B

LINE 1, HALF W, SP. 2, a = 1000', BEARING N53W

SENDER STA. 300'S4 = ELECTRODE No. 4, DATE 9/25/81

PAGE 4

HEINRICHS GEOEX

SEND	6-7	5-6	4-5	3-4	2-3	1-2	5-6	4-5	3-4	2-3
RECEIVE	100-110W						110-120W			
MULTIPLIER	0.1	0.1	0.1	1.0	1.0	10	0.1	0.1	0.1	1.0
PFE	+0.3	+0.5	+0.4	+0.7	+0.4	+1.4	+1.8	+1.0	+0.4	+0.7
CUR. (AMPS)	2	2	2	2	2	1.9	2	2	2	2
POINT No.										
SEP. (n)	6	5	4	3	2	1	6	5	4	3
H. F. MV	6.09	7.03	10.5	18.1	43.4	313	4.86	6.04	10.1	20.6
DRIFT	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										
3.0 MV $\rho/2\pi$										
DRIFT MCF										
S. P.	245.5						248.7			
NOISE	±2	±2	0	0	0	0	±3	±2	±1	0
POT RES.	74						29			
CULT & CMTS	Sand dune									

I. P. RECEIVER NOTES, JOB NO. 1545, AREA Mesa B

LINE 1, HALF W, SP. 2, a = 1000', BEARING N53°W

SENDER STA. 300'S = ELECTRODE NO. 4, DATE 9/25/81

PAGE 5

HEINRICHS GEOEX

SEND	1-2	4-5	3-4	2-3	1-2	CAL					
RECEIVE		120-130 W				CAL					
MULTIPLIER	1.0	0.1	0.1	0.1	1.0	1.0					
PFE	10.6	10.1	+0.9	+0.8	10.4	0					
CUR. (AMPS)	1.9	2	2	2	1.9	1					
POINT NO.											
SEP. (n)	1	6	5	4	3	—					
H. F. MV	19.1	9.4	9.20	8.14	15.9	100					
DRIFT	0	0	0	0	0	0					
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.		23.0									
NOISE	0	±5 / ±3	±7	±0.1	0						
POT RES.		22.5									
CULT & CMTS											

I. P. SENDER NOTES

JOB No. 1545 AREA Mesa B

LINE 2, HALF E, SP. 2, DATE 10/1/82

PAGE 1

HEINRICHS GEOEX

SEND	Cal	1-2	2-3	1-2	2-3	3-4	/	Cal	1-2	2-3
RECEIVE	Cal	50-70		70-60			/	Cal	60-50	
RANGE	2-B						/	2-B		
VOLTAGE	480	840	800	840	800	820	/	200	520	670
CURRENT										
SEND	3-4	4-5	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4
RECEIVE			50-40					40-30		
RANGE										
VOLTAGE	660	635	520	670	660	635	590	520	670	655
CURRENT										

FREQUENCIES	0.1-10
SENDER No.	POWER UNIT ID
OPERATOR	
RECEIVER No.	HOURS RUN
OPERATOR	

COMMENTS:

I. P. SENDER NOTES

JOB No. 1542 AREA Mesa B

LINE 2, HALF East, SP. 2, DATE 10/5/81

PAGE

HEINRICHS GEOEX

West half

SEND	4-5	5-6	6-7	2-3	4-5	4-5	5-6	2-3	Cal	6-7
RECEIVE				30-20w			Cal		Cal	30-0
RANGE			2-C	2B		2C	2C		2C	
VOLTAGE	630	590	480	260	620	480	200		200	480
CURRENT				1.60	1.75					
SEND	5-1	6-7	4-5	6-7	5-6	3-4	Cal			
RECEIVE		90-160w		100-110			Cal			
RANGE	2B	2C	2B	2-C	2B		2C			
VOLTAGE	590	480	625	480	590	655	200			
CURRENT										

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

COMMENTS:

I. P. SENDER NOTES

JOB No. 1545 AREA Mesa B

LINE _____, HALF W, SP. 2, DATE 10/6/81

PAGE 3

HEINRICHS GEOEX

SEND	6-7	5-6	4-5	3-4	2-3	6-7	5-6	4-5	3-4	2-3
RECEIVE	0-1 on.					120-130				
RANGE	2C	2B				2C	2B			
VOLTAGE	490	730	780	720	730	490	740	780	720	730
CURRENT	2.4	1.7	1.7	1.25	1.4	2.4	1.7	1.7	1.25	1.4
SEND	1-2	5-6	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2
RECEIVE		30-140					140-150			
RANGE	2B									
VOLTAGE	550	730	770	710	720	550	770	700	720	550
CURRENT	2	1.7	1.7	1.25	1.4	2	1.7	1.25	1.4	

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

COMMENTS:

I. P. SENDER NOTES

PAGE 4

HEINRICHS GEOEX

JOB NO. 1543 AREA MESA B

LINE 2, HALF W, SP. 2, DATE 10-6-81

SEND	3-4	2-3	1-2							
RECEIVE	150-160W									
RANGE	2.3									
VOLTAGE	700	710	540							
CURRENT										
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES	1-0.1
SENDER NO.	POWER UNIT ID
OPERATOR	
RECEIVER NO.	HOURS RUN
OPERATOR	

COMMENTS:

I. P. SENDER NOTES

JOB NO. 173 AREA Mesa B

LINE 3, HALF E, SP. 2, DATE 10/6/81

PAGE R1

HEINRICHS GEOEX

SEND	4-5	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5
RECEIVE	60-70	140					40-Dw			
RANGE	2-B									
VOLTAGE	740	530	690	675	760	695	530	685	670	740
CURRENT										
SEND	6	2	2-3	4-5	6-7	Call				
RECEIVE			30-Dw			Call				
RANGE		2C	2B		2C	2-low				
VOLTAGE	695	470	685	740	470	430				
CURRENT										

FREQUENCIES	
SENDER NO.	POWER UNIT ID
OPERATOR	
RECEIVER NO.	HOURS RUN
OPERATOR	

COMMENTS:

I. P. RECEIVER NOTES, JOB NO. 1545, AREA Mesa B

LINE 2, HALF E, SR. 2, a = 1000', BEARING N66°E

SENDER STA. 80W = ELECTRODE NO. 4, DATE 10/1/81

PAGE 1

HEINRICHS GEOEX

SEND	CAL	1-2	2-3	1-2	2-3	3-4	1-2	2-3	3-4	4-5
RECEIVE	CAL	20-70W		70-60W			20-80W			
MULTIPLIER	1.0	1.0	1.0	1.0	1.0	10	1.0	1.0	10	10
PFE	0	0.9	0.9	0.9	0.9	0.6	3.2	3.15	2.8	
CUR. (AMPS)	1	0.7	0.4	0.7	0.4	0.33	2	1.4	1.35	1.35
POINT NO.										
SEP. (n)		2	1	3	2	1	4	3	2	1
H. F. MV	100		18.3	11.6	25.4	32.3	10.0	31.4	156	61
DRIFT	-1	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										
3.0 MV $\rho/2\pi$										
DRIFT MCF										
S. P.		+2.1		-8.4			-3.4			
NOISE	0	+2.5	0	+3	+1	0	±1	0	0	0
POT RES.		14.5		22			10			
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 1545, AREA Mosa B

LINE 1, HALF E, SP. 2, a = 1000', BEARING 016°26

SENDER STA. 80W = ELECTRODE No. 4, DATE 10/5/81

PAGE 2

HEINRICHS GEOEX

SEND	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5	5-6
RECEIVE	50-40W					40-30W				
MULTIPLIER	0.1	1.0	1.0	1.0	10	0.1	0.1	0.1	1.0	1.0
PFE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	+1.6	[illegible]	[illegible]	[illegible]
CUR. (AMPS)	2	1.4	1.25	1.75	2	2	1.4	1.25	1.75	2
POINT No.										
SEP. (n)	5	4	3	2	1	6	5	4	3	2
H. F. MV	6.14	11.3	35.0	96.2	369	14.1	258	6.38	14.4	40.7
DRIFT	0	0	0	0	-1	0	0	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.	+26.5					+13.5				
NOISE	±3	±1	±1	0	0	±5	±3	±1	0	0
POT RES.	24					16				
CULT & CMTS				1.6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

I. P. RECEIVER NOTES, JOB NO. 1545, AREA Mesh B

LINE 2, HALF 6, SP. 2, a = 1000', BEARING N66°E

SENDER STA. 80W = ELECTRODE NO. 4, DATE 10/5/81

PAGE 3

HEINRICHS GEOEX

SEND	6-7	2-3	4-5	6-7		6-7	5-6	6-7	4-5	6-7	
RECEIVE		30-70				80-90W		90-100W		100-110W	
MULTIPLIER	10	.01	0.1	1.0		10	100	1.0	10	1.0	
PFE	0.3		10.9	10.3		11.4	30.5	11.9	10.5	9.1	
CUR. (AMPS)	2.5	1.60	1.75	2.5		2.5	2	2.5	1.75	2.5	
POINT NO.											
SEP. (n)	1	6	4	2		2	1	3	1	4	
H. F. MV		115	271	54.1		370	2000	375	361	11	
DRIFT	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											
3.0 MV $\rho/2\pi$											
DRIFT MCF											
S. P.		-11				-9.6		+16.3		-0.3	
NOISE	0	7.6	2.2	0		0	0	0	0	0	
POT RES.		11				16		22		6	
CULT & CMTS	0.3	1.2	1.32								

I. P. RECEIVER NOTES, JOB No. 1545, AREA Mosa B

LINE 2, HALF W, SP. 2, a = 1000', BEARING S 66° W

SENDER STA. 0 = ELECTRODE No. 4, DATE 10/5/61

PAGE 4

HEINRICHS GEOEX

SEND	5-6	3-4	CAL	6-7	5-6	4-5	3-4	2-3	1-2	3-6
RECEIVE			CAL	110-120 W					120-130 W	
MULTIPLIER	1.0	10	1.0	1.0	1.0	1.0	10	10	0.1	0.1
PFE	20.3	4.1	0	8.4	20.9	41	40.9	40.9	6.6	41
CUR. (AMPS)	2	1.25	1	2.4	1.9	1.7	1.25	1.4	2.4	1.9
POINT No.										
SEP. (n)	3	1		5	4	3	4	1	6	5
H. F. MV	44.0	43.6	101	100	41.1	28.6	114	96.7	68.2	81.6
DRIFT			0	0	0	0	0	0	0	0
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.				-4.0					+12.7	
NOISE	0	0	0	±1	0	0	0	0	±1	±1
POT RES.				9					14	
CULT & CMTS	Cal 9.4	0	Both	Cal						

I. P. RECEIVER NOTES, JOB NO. 1545, AREA MESA B

LINE 3, HALF W, SP. 2, a = 1000', BEARING N66E

SENDER STA. D = ELECTRODE NO. 4, DATE 10/6/81

PAGE 5

HEINRICHS GEOEX

SEND	4-5	3-4	2-3	1-2	5-6	4-5	3-4	2-3	1-2	4-5
RECEIVE					130-140W					140-150
MULTIPLIER	1.0	1.0	10	10	0.1	0.1	1.0	1.0	10	0.1
PFE	1.13	1.13	1.1	1.0	1.12	1.17	1.13	1.13	1.09	1.2
CUR. (AMPS)	1.7	1.25	1.4	2	1.9	1.7	1.25	1.9	2	1.7
POINT NO.										
SEP. (n)	4	3	2	1	6	5	4	3	2	
H. F. MV	130	114	110	554	374	419	123	314	105	3.07
DRIFT	0	0	0	0	0	0	-1	0	0	
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.					+5.2					+37.6
NOISE	±3	0	0	0	±1	0	±1	0	0	±5
POT RES.					12					45.5
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 1545, AREA MESA B

LINE 3, HALF W, SP. 3, a = 100 ft, BEARING N66E

SENDER STA. 0 = ELECTRODE No. 4, DATE 10/6/61

PAGE 6

HEINRICHS GEOEX

SEND		2-4	2-3	1-2	3-4	2-3	1-2				
RECEIVE					150-1600						
MULTIPLIER		0.1	1.0	1.0	0.1	0.1	1.0				
PFE											
CUR. (AMPS)		1.25	1.4	2	1.25	1.4	2				
POINT No.											
SEP. (n)		5	4	3	6	5	4				
H. F. MV		16.75	13.4	41.6	4.01	9.37	20.5				
DRIFT		-1	0	0	0	0	0				
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.					-35.4						
NOISE		±1	0	0	±1	±1	0				
POT RES.					42						
CULT & CMTS											

I. P. RECEIVER NOTES, JOB No. 545, AREA Mesa B

LINE 2, HALF E, SR. 2, a = 1000', BEARING S66°W

SENDER STA. 0 = ELECTRODE No. 4, DATE 10/6/81

PAGE R-1

HEINRICHS GEOEX

SEND	4-5	1-2	2-3	3-4	4-5	5-6	6-7	2-3	3-4	4-5
RECEIVE	50-60W	40-50W					30-40W			
MULTIPLIER	10	0.1	1.0	1.0	1.0	10	0.1	0.1	0.1	1.0
PFE						+3.08				
CUR. (AMPS)	1.1	2	1.4	1.25	1.75	1.9	2	1.9	1.25	1.75
POINT NO.										
SEP. (n)	1	5	4	3	2	1	6	5	4	3
H. F. MV						546				
DRIFT	0	0	0	0	0	-1	0	0	0	0
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.	-4.8	+13.4					+6.9			
NOISE	0	5	±1	0	0	0	±5	±3	0	0
POT RES.	9.5	10					12			
CULT & CMTS						3 Tones 4, 2, 3				

P. RECEIVER NOTES, JOB NO. 1545, AREA Mesa 13

LINE 2, HALF E, SP. 2, a = 1000', BEARING N66°E

SENDER STA. 0 = ELECTRODE NO. 4, DATE 10/6/81

PAGE R-2

HEINRICHS GEOEX

SEND	5-6	6-7	2-3	4-5	6-7	CAL					
RECEIVE			20-30V			CAL					
MULTIPLIER	1.0	10	0.1	0.1	1.0	1.0					
PFE											
CUR. (AMPS)	1.9	2.9	1.4	1.7	2.4	1					
POINT NO.											
SEP. (n)	2	1	6	4	2						
H. F. MV											
DRIFT	0	0	0	+1	0	0					
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.			-13.4								
NOISE	0	0	3	0	0	0					
POT RES.			18								
CULT & CMTS											

I. P. RECEIVER NOTES, JOB No. 1545, AREA Mesa B

LINE 1, HALF W, SP. 1, a = 1000, BEARING S S 36

SENDER STA. 0 = ELECTRODE No. 4, DATE 9/22/81

PAGE 6

HEINRICHS GEOEX

SEND	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2	4-5		
RECEIVE					6-700				6-700		
MULTIPLIER	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
PFE	1.0	0.5	0.4	0.3	0.6	0.5	0.4	0.2	0.1		
CUR. (AMPS)	2	2	2	2	2	2	2	2	1		
POINT No.											
SEP. (n)	5	4	3	2	6	5	4	3			
H. F. Mv	10.0	23.3	41.2	74.0	11.2	16.2	23.1	20.5	10.4		
DRIFT	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											
3.0 MV / $\rho/2\pi$											
DRIFT / MCF											
S. P.					1.6						
NOISE	0	0	0	0	±1	±1	0	0	0		
POT RES.					15						
CULT & CMTS											

I. P. RECEIVER NOTES, JOB No. 1545, AREA Mesa B

LINE 1, HALF E, SP. 1, a = 1000, BEARING S53°E

SENDER STA. 0 = ELECTRODE No. 4, DATE 9/21/81

PAGE 1

HEINRICHS GEOEX

SEND	CAL	1-2	2-3	1-2	2-3	3-4	1-2	2-3	3-4	4-5
RECEIVE	CAL	0-10E		10-20E			20-30E			
MULTIPLIER	1.0	1.0	10	1.0	1.0	10	0.1	1.0	1.0	10
PFE	0	0	+0.3	+0.2	+0.5	+0.4	+0.2	-0.5	+0.4	+0.2	0
CUR. (AMPS)	1	2	2	2	2	2	2	2	2	2
POINT NO.										
SEP. (n)		2	1	3	2	1	4	3	2	1
H. F. MV		17.0	6.1	18.1	9.0	3.1	7.6	33.7	9.0	3.5
DRIFT	0	0.6	0	0	0	0	0	0	0	
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.		-3.1		+24			-30.5			
NOISE	0	0	0	0	0	0	±1	0	0	0
POT RES.		4		28			32			
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 1515, AREA Mesa B

LINE 1, HALF E, SP. 1, a = 1000, BEARING N53W

SENDER STA. 0 = ELECTRODE NO. 4, DATE 9/21/81

PAGE 2

HEINRICHS GEOEX

SEND	CAL		CAL	1-2	2-3	3-4	4-5	5-6	1-2	2-3
RECEIVE	CAL		CAL	30-40E					40-50E	→
MULTIPLIER	1.0		1.0	0.1	1.0	1.0	10	10	0.1	1.0
PFE	-0.1		0.2	0.3	+0.7	0.5	0.3	0.2	0.6	0.4
CUR. (AMPS)	1		1	2	2	2	2	2	2	2
POINT NO.										
SEP. (n)	—			5	4	3	2	1	6	5
H. F. MV					39.1					
DRIFT	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										
3.0 MV $\rho/2\pi$										
DRIFT MCF										
S. P.				+0.6					+6.2	→
NOISE	0		0	0	±1	±0	0	0	±1	0
POT RES.									6	→
CULT & CMTS					Pot 4 was at 40E					

I. P. RECEIVER NOTES, JOB NO. 1545, AREA Mesa B

LINE _____, HALF _____, SR. 1, a = 1000, BEARING N53W

SENDER STA. 0 = ELECTRODE NO. 4, DATE 9/22/81

PAGE 3

HEINRICHS GEOEX

SEND		3-4	4-5	5-6	6-7	2-3	3-4	4-5	5-6	6-7	3-4
RECEIVE						50-60B					60-70C
MULTIPLIER		1.0	1.0	10	10	1.0	1.0	1.0	10	10	
PFE		0.7	[illegible]	[illegible]	[illegible]	[illegible]	10.9	[illegible]	10.4	[illegible]	[illegible]
CUR. (AMPS)		2	2	2	2	2	2	2	2	2	2
POINT NO.											
SEP. (n)		4	3	2	1	6	5	4	3	2	6
H. F. MV		43.7	[illegible]	219	205	[illegible]	779	[illegible]	[illegible]	[illegible]	[illegible]
DRIFT		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										
3.0 MV	$\rho/2\pi$										
DRIFT	MCF										
S. P.						+1.4					+4.8
NOISE		0	0	0	0	0	0	0	0	0	0
POT RES.						4					9
CULT & CMTS											

I. P. RECEIVER NOTES, JOB No. 1545, AREA Mesa B

LINE _____, HALF 6, SP. 1, a = 1000', BEARING N 53W

SENDER STA. 0 = ELECTRODE No. 4, DATE 9/22/81

PAGE 4

HEINRICHS GEOEX

SEND	4.5	5-6	6-7		6-7	4-5	6-7	3-4	2-3	5-6
RECEIVE					5-10W	10-20W	20-30W		30-40W	
MULTIPLIER	1.0	1.0	1.0		1.0	10	0.1	10	0.1	1.0
PFE	10	10.2	10.4		10.3	10.2	0	10.1	0	10.5
CUR. (AMPS)	2	2	2		2	2	2	2	2	2
POINT No.										
SEP. (n)	5	4	3		2	1	4	1	5	4
H. F. MV	21.5	38.2	60.4		95.6	162	116	210	62.4	11.2
DRIFT	-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										
3.0 MV $\rho/2\pi$										
DRIFT MCF										
S. P.					-5.4	-26.8	+34.1		-26.6	
NOISE	0	0	0		0	0	±1	0	±1	±1
POT RES.					6	28	34		26.5	
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 1545, AREA Mesa B

LINE ____, HALF W, SP. 1, a = 1000, BEARING N53W

SENDER STA. 0 = ELECTRODE No. 4, DATE 9/22/81

PAGE 5

HEINRICHS GEOEX

SEND	4-5	3-4	2-3	6-7	5-6	4-5	3-4	2-3	1-2	5-6
RECEIVE				40-50W						50-60
MULTIPLIER	1.0	1.0	10	0.1	0.1	1.0	1.0	1.0	10	0.1
PFE	+0.1	+0.3	+0.1	+0.8	+0.4	+0.5	+0.4	+0.3	+0.1	+0.5
CUR. (AMPS)	2	2	2	2	2	2	2	2	2	2
POINT No.										
SEP. (n)	3	2	1	6	5	4	3	2	1	6
H. F. MV	67.3	105	321	331	251	265	415	94.4	113	1.06
DRIFT	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										
3.0 MV $\rho/2\pi$										
DRIFT MCF										
S. P.				±39.4						-24.7
NOISE	0	0	0	±2	±1	0	0	0	0	±2
POT RES.				35						23.5
CULT & CMTS										

I. P. SENDER NOTES

JOB No. 1545 AREA MESA B

LINE 1, HALF EAST, SP. 1, DATE 9-21-81

PAGE 1

HEINRICHS GEOEX

SEND	CAL	1-2	2-3	1-2	2-3	3-4	1-2	2-3	3-4	4-5
RECEIVE	CAL	0-10E	—	10-20E	—	—	20-30E	—	—	—
RANGE	2C	—								
VOLTAGE	250	480	470	480	470	400	480	470	400	380
CURRENT	1	2	2	2	2	2	2	2	2	2
SEND	CAL	1-2	CAL	1-2	2-3	3-4	4-5	5-6	1-2	2-3
RECEIVE	CALE		CAL	30-40E	—	—	—	—	40-50E	—
RANGE				2C	—	—	—	—	—	—
VOLTAGE	250	480	255	480	475	400	380	310	480	475
CURRENT	1	2	1	2	2	2	2	2	2	2

FREQUENCIES	
SENDER No. 9662	POWER UNIT ID
OPERATOR HORBATT	BES CJN2
RECEIVER No. D-DAMP	HOURS RUN
OPERATOR ZELLER	1 1/2

COMMENTS:

I. P. SENDER NOTES

JOB No. 1545 AREA MESA B

LINE 1, HALF EAST, SP. 1, DATE 9-22-81

PAGE 2

HEINRICHS GEOEX

SEND	3-4	4-5	5-6	6-7	2-3	3-4	4-5	5-6	6-7	3-4
RECEIVE	40-50E	—	—	—	50-60E	—	—	—	—	60-70E
RANGE	2C	—	—	2B	2C	—	—	—	2B	2C
VOLTAGE	400	380	310	710	475	400	380	310	710	400
CURRENT	2	2	2	2	2	2	2	2	2	2
SEND	4-5	5-6	6-7		6-7	4-5	6-7	3-4	6-7	5-6
RECEIVE	—	—	—		0-10W	10-20	20-30W	—	30-40W	—
RANGE	2C	—	2B		2B	2C	2B	2C	2B	2C
VOLTAGE	380	310	710		680	380	680	400	700	310
CURRENT	2	2	2		2	2	2	2	2	2

FIRST HALF

FREQUENCIES	
SENDER No. 9662	POWER UNIT ID
OPERATOR HORBATT	B&S ENJ2
RECEIVER No. D.DAMP	HOURS RUN
OPERATOR ZELLER	1/N

COMMENTS:

I. P. SENDER NOTES

JOB No. 1545 AREA MESA B

LINE 1, HALF WEST, SP. 1, DATE 9-22-81

PAGE 3

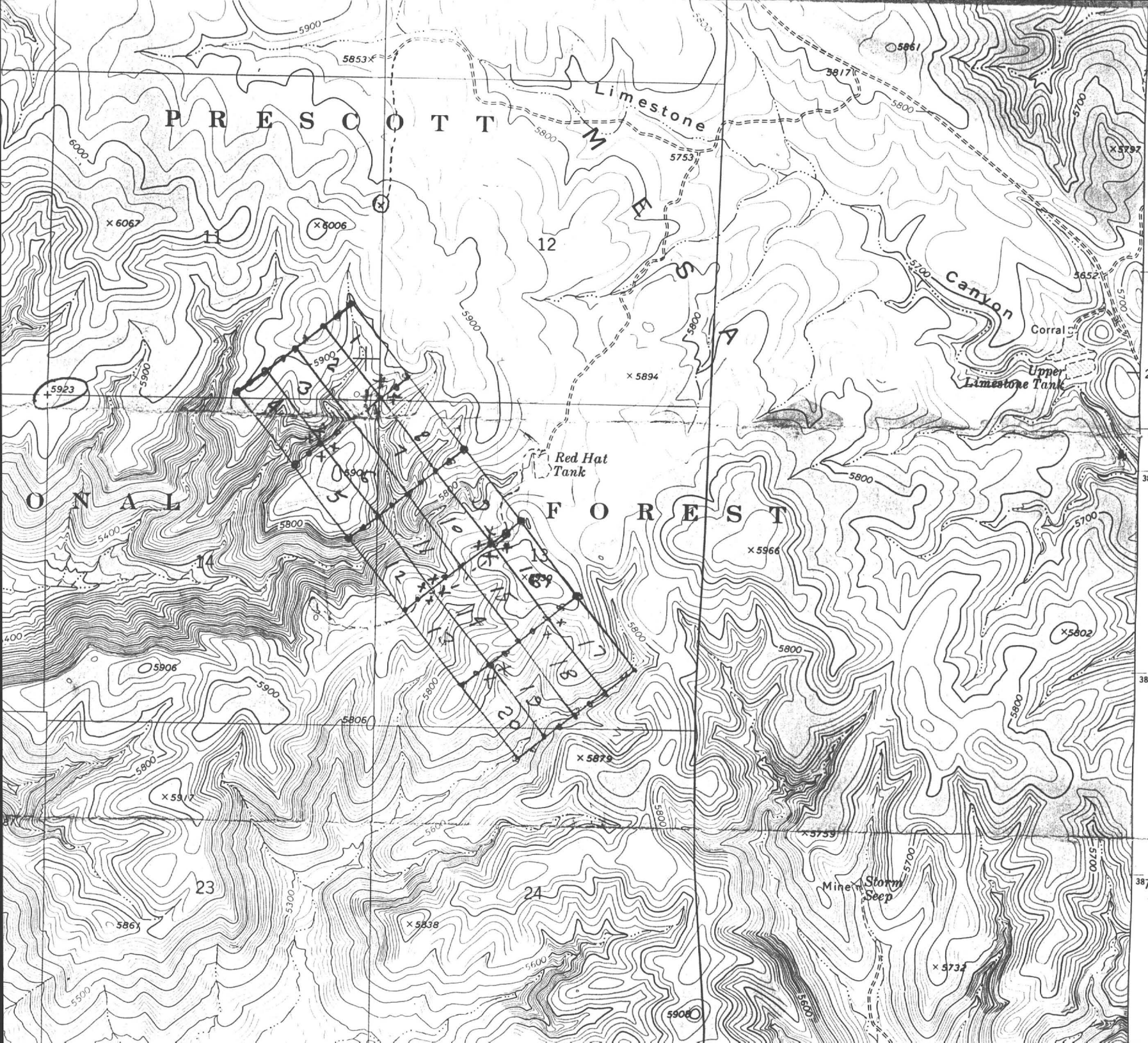
HEINRICHS GEOEX

SEND	4-5	3-4	2-3	6-7	5-6	4-5	3-4	2-3	1-2	5-6
RECEIVE	30-40 W			40-50 W						50-60
RANGE	2C			2B	2C					
VOLTAGE	370	400	470	690	305	375	400	465	470	305
CURRENT	2	2	2	2	2	2	2	2	2	2
SEND	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2	CAL	
RECEIVE					60-70 W				CAL	
RANGE										
VOLTAGE	370	400	465	470	370	400	465	470	245	
CURRENT	2	2	2	2	2	2	2	2	1	

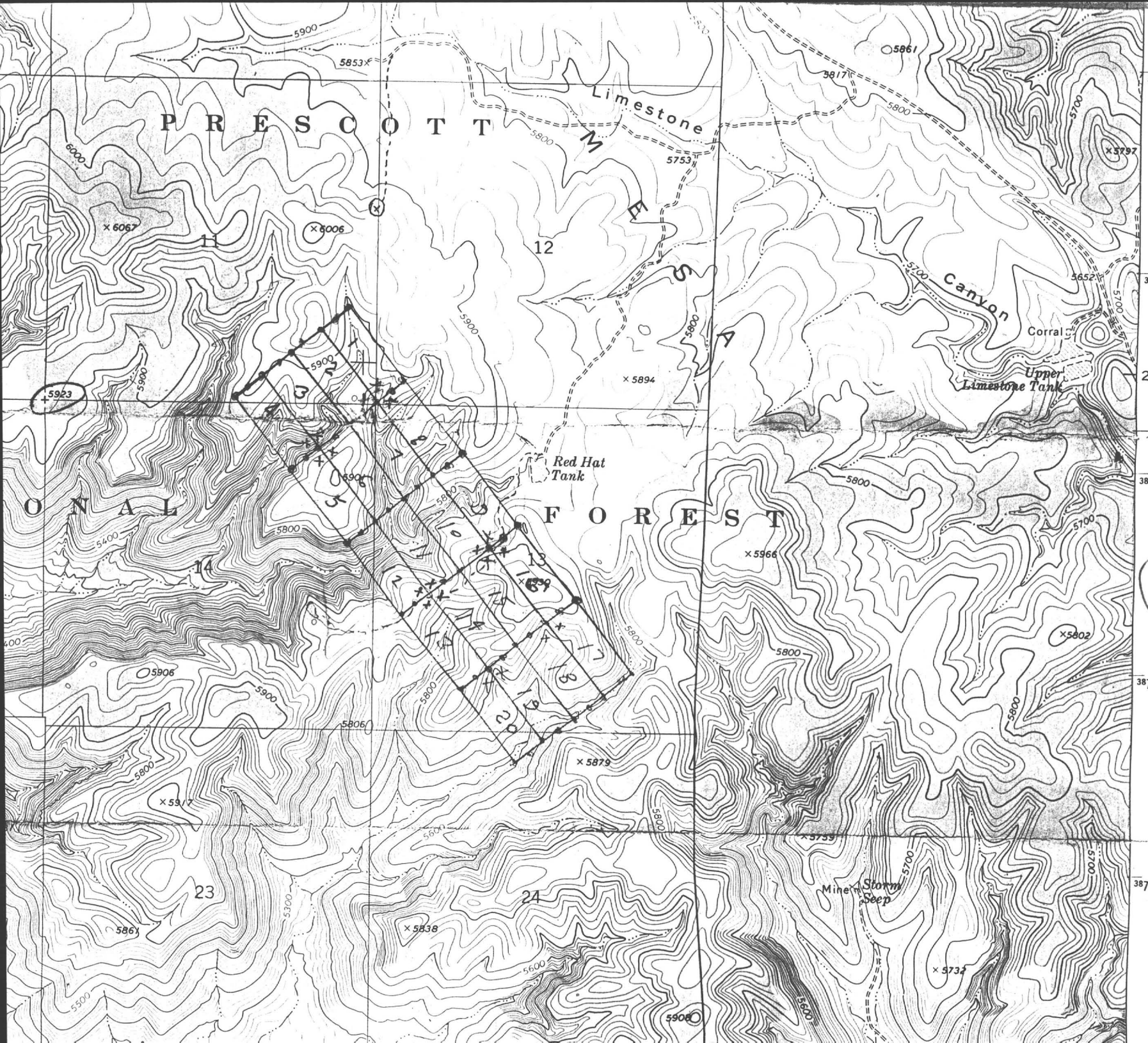
FREQUENCIES

SENDER No. 9662	POWER UNIT ID
OPERATOR HORBATT	B&S ENG2
RECEIVER No. D. DAMA	HOURS RUN
OPERATOR ZELLER	1

COMMENTS:



MESA-A
(Contour Interval: 20 feet)



MESA-A

(20' Contour interval)

HEINRICHS GEOEXPLORATION COMPANY

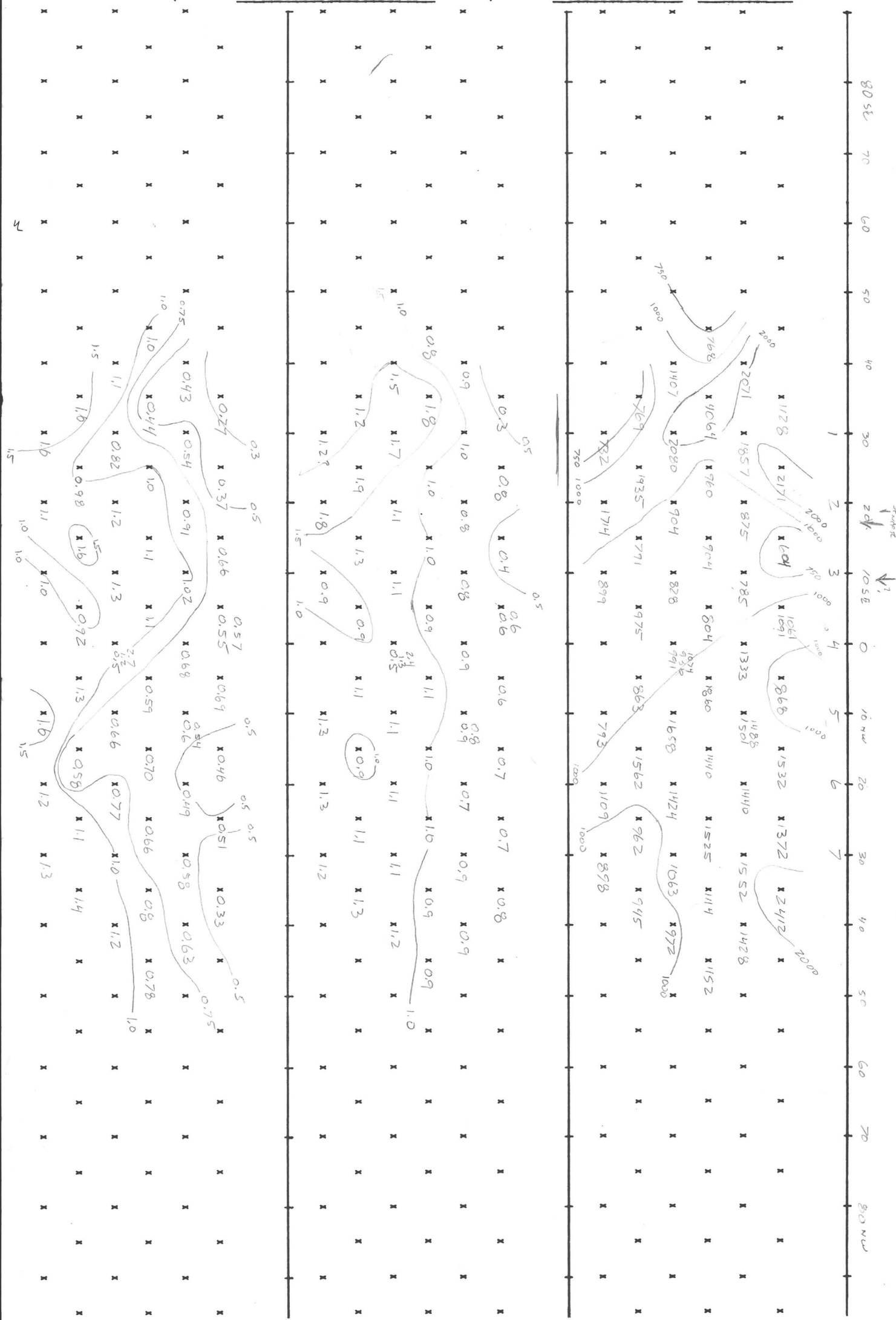
806 W. GRANT RD., P.O. BOX 5964 TUCSON, ARIZ. 85703. PH: (602) 623-0578

JOB # 1545 CLIENT T I

DATE 9-22-81 AREA MESA A

LINE# 1 SP 1 a= 1000 BEARING S 15E

RESISTIVITY FREQUENCIES 3.0 FREQUENCIES 3.0 & 0.3 Hz



HEINRICHS GEOEXPLORATION COMPANY

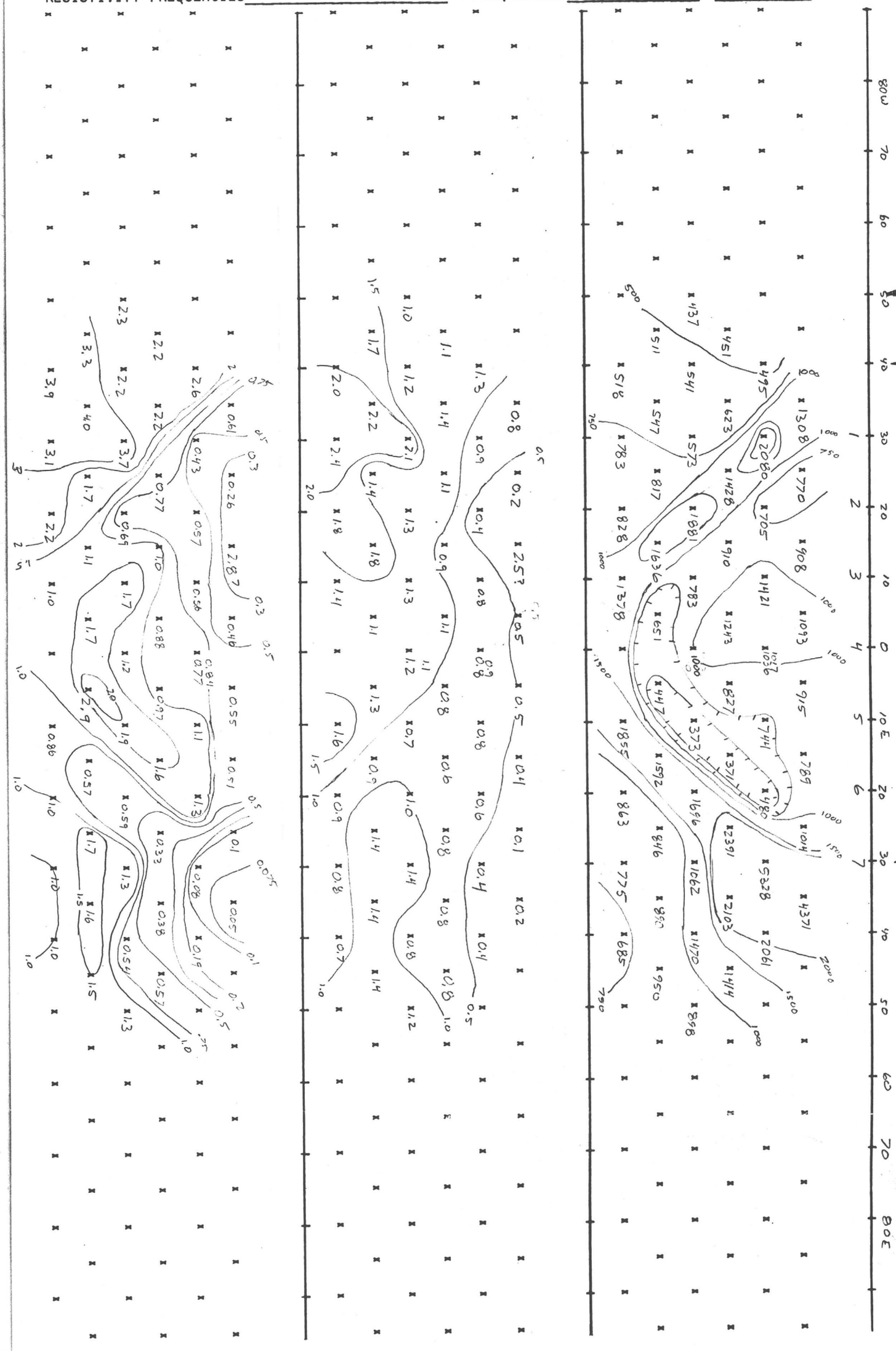
806 W. GRANT RD., P.O. BOX 5964 TUCSON, ARIZ. 85703. PH: (602) 623-0578

JOB # 1545 CLIENT T I

DATE 10-22-81 AREA MESA A

LINE# 2 SP 1 a= 1000 BEARING N59E

RESISTIVITY FREQUENCIES 1.0 FREQUENCIES 1.0 & 0.1 Hz



HEININGER GEOEXPLORATION COMPANY

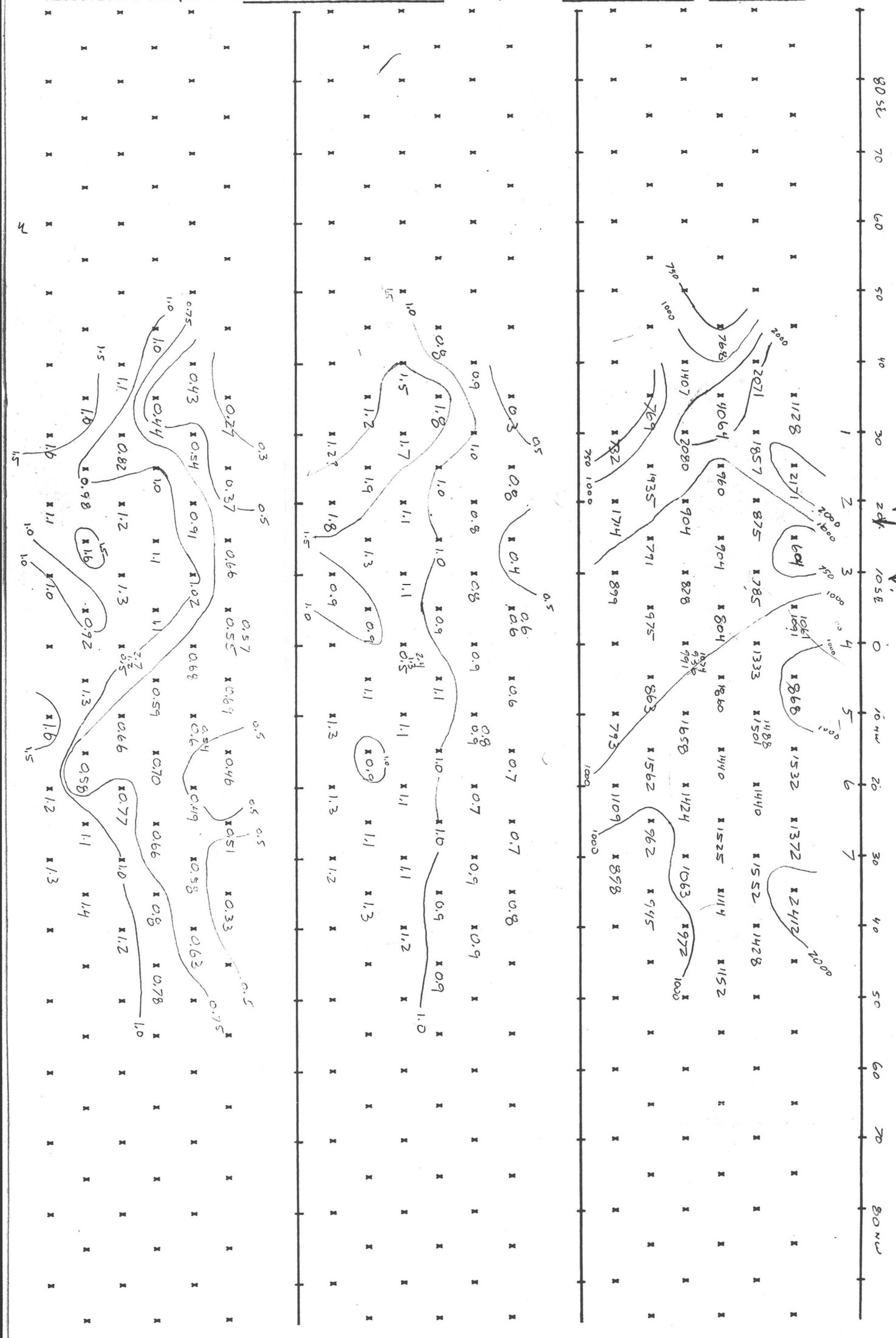
806 W. GRANT RD., P.O. BOX 5964 TUCSON, ARIZ. 85703. PH: (602) 623-0578

JOB # 1545 CLIENT T I

DATE 9-22-84 AREA MESA A

LINE# 1 SP 1 a= 1000 BEARING S 15E

RESISTIVITY FREQUENCIES 3.0 FREQUENCIES 3.0 & 0.3 Hz



HEINRICHS GEOEXPLORATION COMPANY

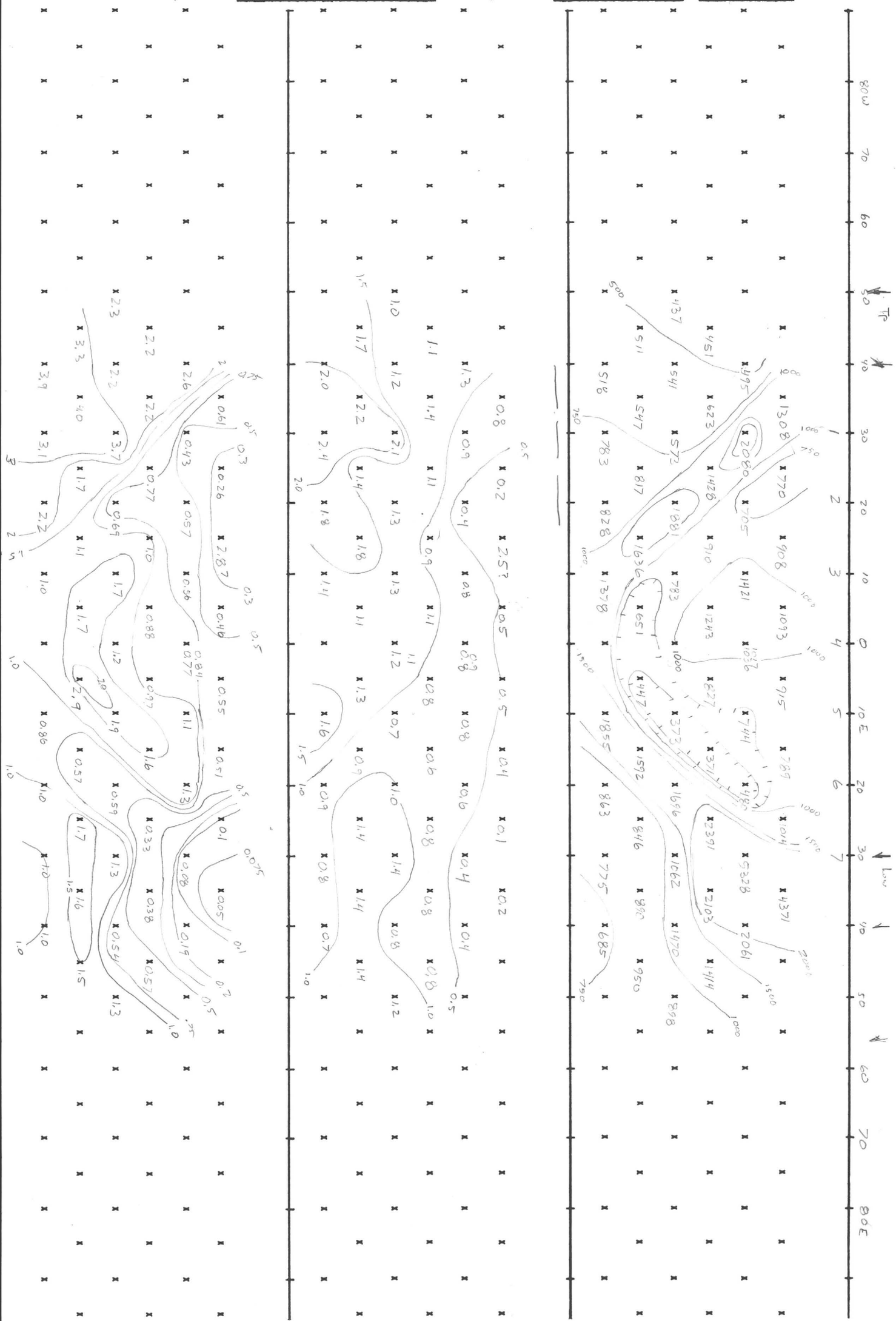
806 W. GRANT RD., P.O. BOX 5964 TUCSON, ARIZ. 85703. PH: (602) 623-0578

JOB # 1545 CLIENT I I

DATE 10-22-81 AREA MESA

LINE# 2 SP 1 a= 1000 BEARING N59E

RESISTIVITY FREQUENCIES 1.0 FREQUENCIES 1.0 & 0.1 Hz



HEINRICHS GEOEXPLORATION COMPANY

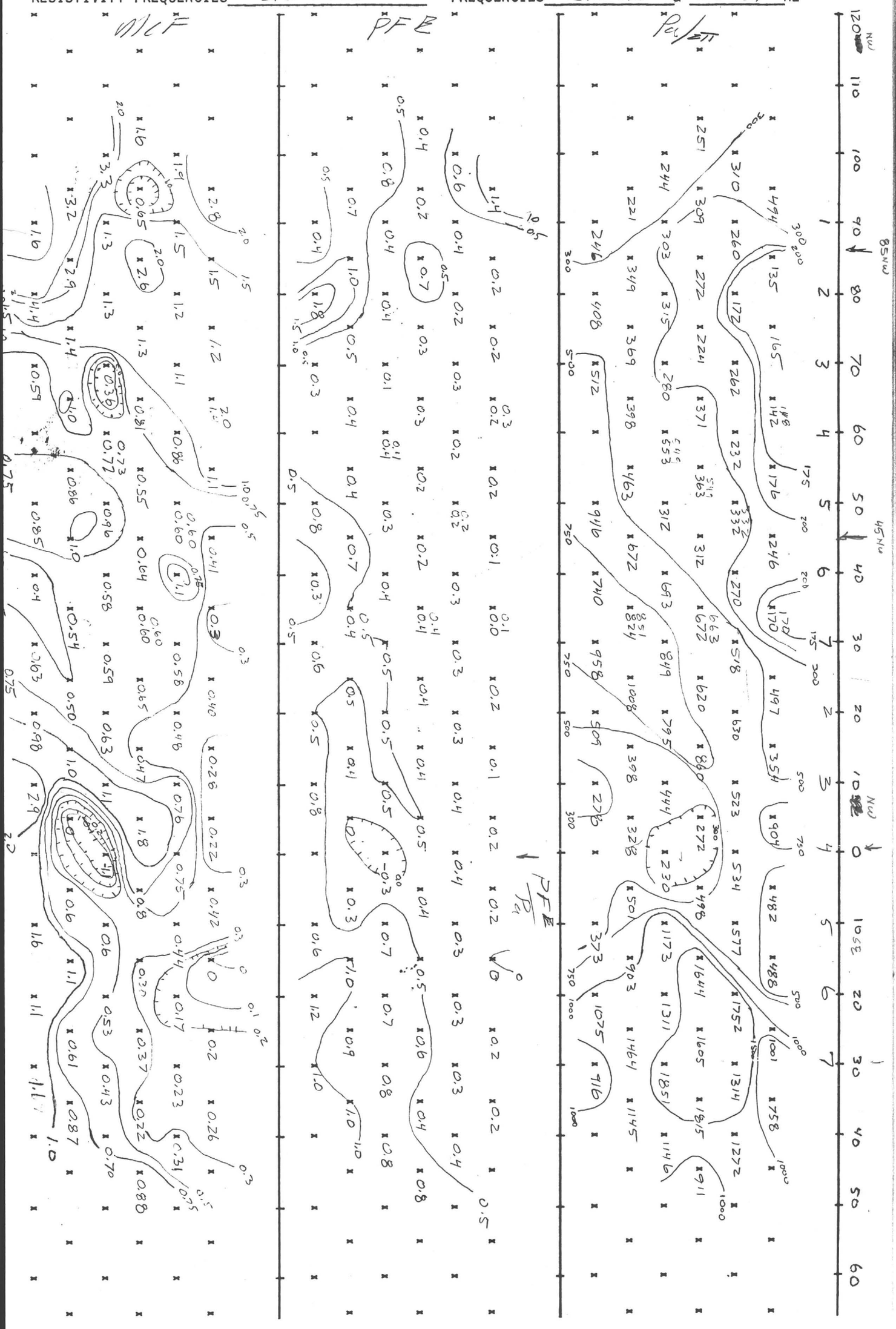
806 W. GRANT RD., P.O. BOX 5964 TUCSON, ARIZ. 85703. PH: (602) 623-0578

JOB # 1545 CLIENT TI

DATE 9-28-81 AREA Mesa B

LINE# 1 SP 1,2 a= 1000 BEARING 55°E

RESISTIVITY FREQUENCIES 3.0 + 1.0 FREQUENCIES 3.0 +1.0 & 0.3 +0.1 Hz



HEINRICHS GEOEXPLORATION COMPANY

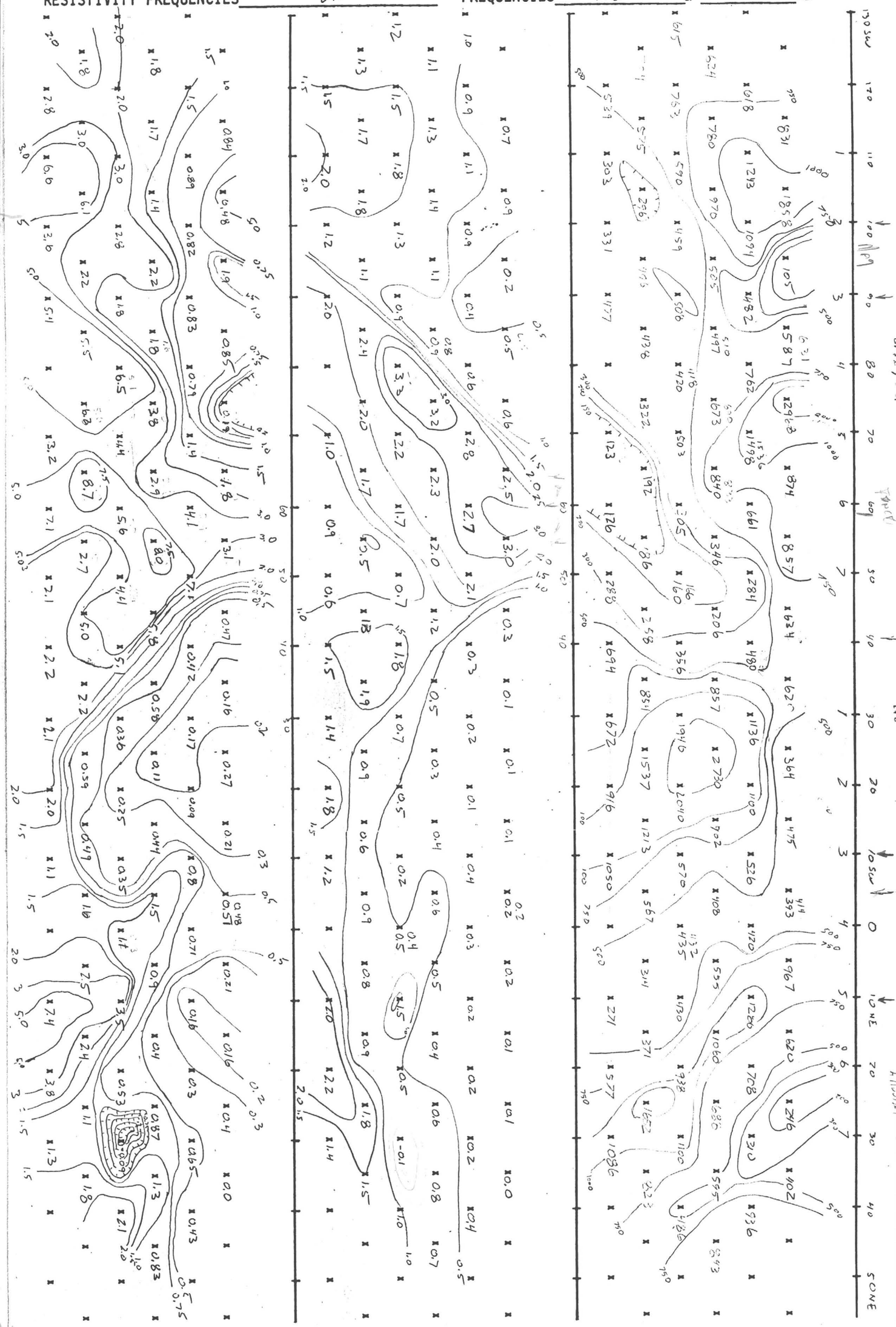
806 W. GRANT RD., P.O. BOX 5964 TUCSON, ARIZ. 85703. PH: (602) 623-0578

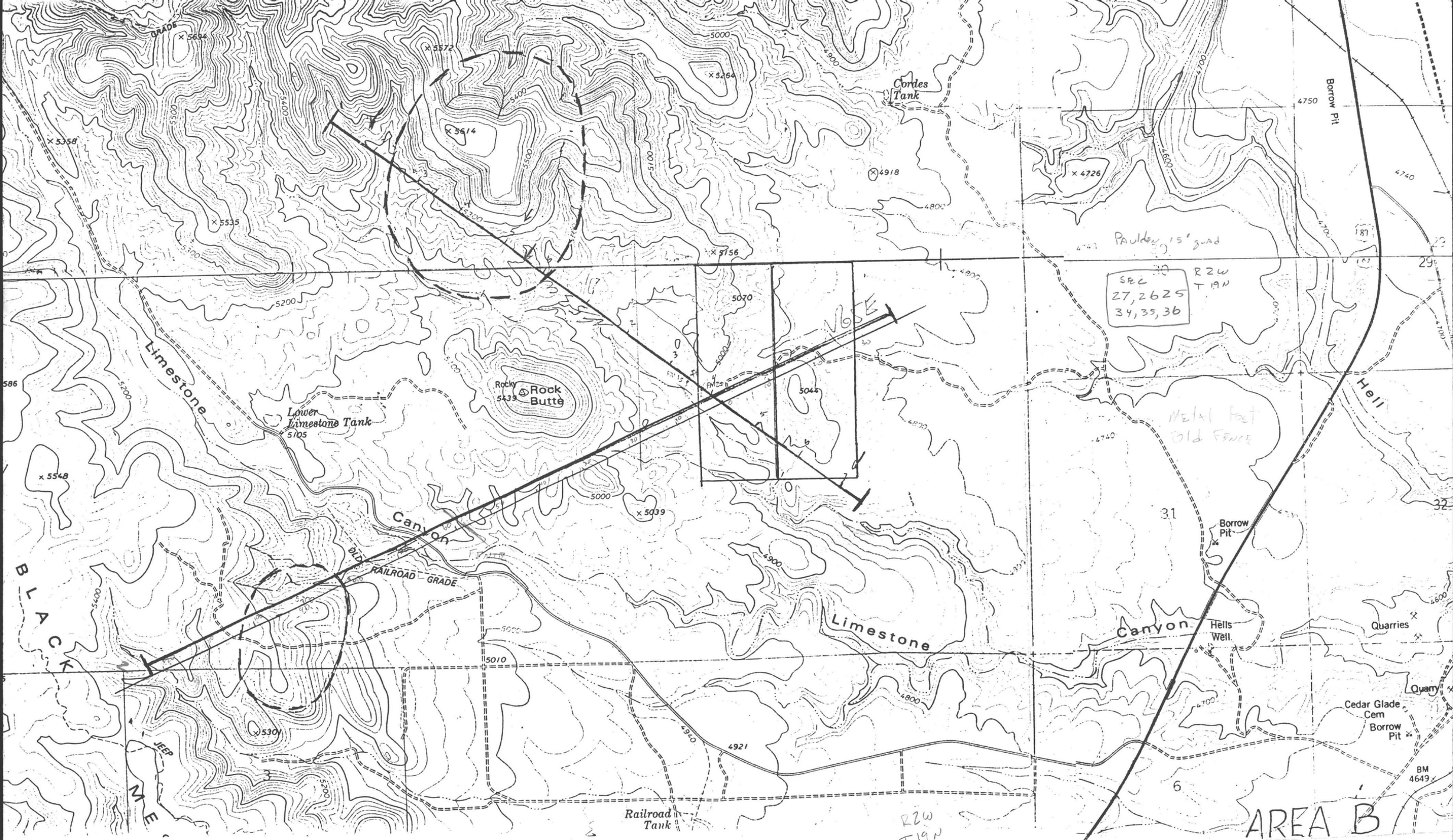
JOB # 1545 CLIENT TI

DATE 9-2-81 AREA MESA B

LINE# Z SP 1 a= 10000 BEARING

RESISTIVITY FREQUENCIES 0.1 FREQUENCIES 1.0 & 0.1 Hz




GRADE
Cordes Tank
Borrow Pit
Paulding 15' quad
SEC 27, 26 25 34, 35, 36
R2W T19N
Limestone
Rocky
Rock Butte
Lower Limestone Tank
Canyon
OLD RAILROAD GRADE
BLACK
Limestone
Canyon
Hells Well
Borrow Pit
Quarries
Quarry
Cedar Glade Cem
Borrow Pit
BM 4649
Hell
Metal post old fence
JEEP
Railroad Tank
R2W T19N
AREA B

I. P. RECEIVER NOTES, JOB No. 1545, AREA Mesa B

LINE 2, HALF E, SP. 2, a = 1000', BEARING N66°E

SENDER STA. 80W = ELECTRODE No. 4, DATE 10/1/81 // 10/5/81

PAGE 1

HEINRICHS GEOEX

SEND	CAL	1-2	2-3	1-2	2-3	3-4	1-2	2-3	3-4	4-5
RECEIVE	CAL	60-70W		70-60W			60-80W			
MULTIPLIER	1.0	1.0	1.0	1.0	1.0	10	1.0	1.0	10	10
PFE	0	+0.4	+0.5	+0.9	+0.6	+0.6	+3.3	+3.2	+2.8	+2.8
CUR. (AMPS)	1	0.7	0.4	0.7	0.4	0.33	2	1.4	1.25	1.75
POINT No.										
SEP. (n)		2	1	3	2	1	4	3	2	1
H. F. MV	100	28.1	78.3	11.6	25.4	323	14.0	31.4	156	643
DRIFT	-1	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										
3.0 MV / $\rho/2\pi$		482	587	497	762	2936	420	673	1498	1102
DRIFT / MCF		0.83	0.85	1.8	0.79	0.20	7.9	4.8	1.9	2.5
S. P.		+2.1		-8.4			-8.4			
NOISE	0	±2	0	±3	±1	0	±1	0	0	0
POT RES.		14.5		22			10			
CULT & CMTS							Both rec cal 10/10			

I. P. RECEIVER NOTES, JOB No. 1545 AREA Mosa B

LINE 2, HALF E, SP. 2, a = 1000', BEARING N66E

SENDER STA. 80W = ELECTRODE No. 4, DATE 10/5/81

PAGE 2

HEINRICHS GEOEX

SEND	1-2	2-3	3-4	4-5	5-6	1-2	3-3	3-4	4-5	5-6
RECEIVE	50-40W					40-30W				
MULTIPLIER	0.1	1.0	1.0	1.0	10	0.1	0.1	0.1	1.0	1.0
PFE	+2.2	+2.3	+2.4	+2.8	+2.2	+1.5	+1.6	+1.8	+1.8	+10.5
CUR. (AMPS)	2	1.4	1.25	1.75	2	2	1.4	1.25	1.75	2
POINT No.										
SEP. (n)	5	4	3	2	1	6	5	4	3	2
H. F. MV	6.14	11.8	35.0	96.2	56.9	1.47	2.58	6.38	14.4	45.4
DRIFT	0	0	0	0	-1	0	0	0	0	-2
1.0 PFE K_n/1000										
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c										
3.0 MV $\rho/2\pi$	322	506	840	660	854	123	194	306	247	272
DRIFT MCF	6.8	4.5	2.9	4.2	2.6	12.1	8.3	5.9	7.3	38.5
S. P.	+26.5					+13.5				
NOISE	±3	±1	±1	0	0	±5	±3	±2	0	0
POT RES.	28					16				
CULT & CMTS				1.6	.8	pot in work at 40W 1.8				+8.6

I. P. RECEIVER NOTES, JOB No. 1545, AREA Mosh B

LINE 2, HALF E, SP. 2, a = 1000', BEARING N66°E

SENDER STA. 80W = ELECTRODE No. 4, DATE 10/5/81

PAGE 3

HEINRICHS GEOEX

SEND	6-7	2-3	4-5	6-7		6-7	5-6	6-7	4-5	6-7
RECEIVE	—	30-70	—	—		80-90W	—	90-100W	—	100-110W
MULTIPLIER	10	.01	0.1	1.0		10	100	1.0	10	1.0
PFE	+0.3	+68	+69	+0.3		+1.4	+0.5	+1.9	+0.5	+2.1
CUR. (AMPS)	2.5	1.60	1.75	2.5		2.5	2	2.5	1.75	2.5
POINT NO.										
SEP. (n)	1	6	4	2		2	1	3	1	4
H. F. MV	527	.675	2.77	99.7		320	2000	57.5	368	17.4
DRIFT	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										
3.0 MV / $\rho/2\pi$	632	71	95	479		1536	3000	690	631	418
DRIFT / MCF	0.47	95.9	72.7	0.63		0.91	0.17	2.8	0.79	5.1
S. P.	—	-11.7	—	—		-9.6	—	+16.3	—	-8.3
NOISE	0	±5	±2	0		0	0	0	0	0
POT RES.	—	"	—	—		16	—	22	—	6
CULT & CMTS	+0.3	+32	+32							

Wash Hole

I. P. RECEIVER NOTES, JOB No. 1545, AREA Mesa B

LINE 2, HALF W, SP. 2, a = 1000', BEARING S 66° W

SENDER STA. 0 = ELECTRODE No. 4, DATE 10/5/81

PAGE 4

HEINRICHS GEOEX

SEND	5-6	3-4	CAL	6-7	5-6	4-5	3-4	2-3	6-7	5-6
RECEIVE			CAL	110-120W					120-130W	
MULTIPLIER	1.0	10	1.0	1.0	1.0	1.0	10	10	0.1	0.1
PFE	+0.8	+8.7	0	+2.4	+0.9	+1.1	+0.9	+0.9	+2.6	+1.1
CUR. (AMPS)	2	1.25	1	2.4	1.9	1.7	1.25	1.4	2.4	1.9
POINT No.										
SEP. (n)	3	1		5	4	3	2	1	6	5
H. F. MV	34.0	43.6	10.1	10.0	16.1	28.6	11.4	86.7	6.82	8.97
DRIFT			0	0	0	0	0	0	0	0
1.0 PFE $K_n/1000$										
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c										
3.0 MV $\rho/2\pi$	510	105		438	508	505	1094	1858	477	496
DRIFT MCF	1.6	1.9		5.5	1.8	2.2	0.82	0.48	5.4	2.2
S. P.				-4.0					+12.7	
NOISE	0	0	0	±1	0	0	0	0	±1	±1
POT RES.				9					18	
CULT & CMTS	Cal 99.4, 0		Both cal							

I. P. RECEIVER NOTES, JOB No. 1545, AREA MOSA B

LINE 2, HALF W, SP. 2, a = 1000', BEARING N66°E

SENDER STA. 0 = ELECTRODE No. 4, DATE 10/6/81

PAGE 5

HEINRICHS GEOEX

SEND	4-5	3-4	2-3	1-2	5-6	4-5	3-4	2-3	1-2	4-5
RECEIVE					130-140W					140-150
MULTIPLIER	1.0	1.0	10	10	0.1	0.1	1.0	1.0	10	0.1
PFE	+1.3	+1.4	+1.1	+0.7	+1.2	+1.8	+1.8	+1.3	+0.9	+2.0
CUR. (AMPS)	1.7	1.25	1.4	2	1.9	1.7	1.25	1.4	2	1.7
POINT NO.										
SEP. (n)	4	3	2	1	6	5	4	3	2	6
H. F. MV	13.0	40.4	145	554	3.74	4.79	12.3	36.4	103	3.07
DRIFT	0	0	0	0	0	0	-1	0	0	
1.0 PFE K_n/1000										
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c										
3.0 MV $\rho/2\pi$	459	970	1243	831	331	296	590	780	618	303
DRIFT MCF	2.8	1.4	0.89	0.84	3.6	6.1	3.0	1.7	1.5	6.6
S. P.					+5.2					+37.6
NOISE	±3	0	0	0	±1	0	±1	0	0	±5
POT RES.					12					45.5
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 1545 AREA Mesa B

LINE 7, HALF W, SR. 2, a = 1000', BEARING N66°E

SENDER STA. 0 = ELECTRODE No. 4, DATE 10/6/81

PAGE 6

HEINRICHS GEOEX

SEND	3-4	2-3	1-2	3-4	2-3	1-2					
RECEIVE				150-160W							
MULTIPLIER	0.1	1.0	1.0	0.1	0.1	1.0					
PFE	+1.7	+1.5	+1.1	+1.5	+1.3	+1.2					
CUR. (AMPS)	1.25	1.4	2	1.25	1.4	2					
POINT NO.											
SEP. (n)	5	4	3	6	5	4					
H. F. MV	6.85	17.8	41.6	4.01	9.39	20.5					
DRIFT	-1	0	0	0	0	0					
1.0 PFE $K_n/1000$											
0.3 PFE ρ_{CAL}											
0.1 PFE PFE_c											
3.0 MV $\rho/2\pi$	575	763	624	539	704	615					
DRIFT MCF	3.0	2.0	1.8	2.8	1.8	2.0					
S. P.				-35.9							
NOISE	±1	0	0	±1	±1	0					
POT RES.				42							
CULT & CMTS											

I. P. RECEIVER NOTES, JOB No. 1545, AREA Mesa B

LINE 2, HALF E, SP. 2, a = 1000', BEARING S66°W

SENDER STA. 0 = ELECTRODE No. 4, DATE 10/6/81

PAGE R-1

HEINRICHS GEOEX

SEND	4-5	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5
RECEIVE	50-60W	40-50W					30-40W			
MULTIPLIER	10	0.1	1.0	1.0	1.0	10	0.1	0.1	0.1	1.0
PFE	+2.1	+1.8	+2.1	+2.3	+2.6	+3.0	+0.4	+1.7	+1.6	+2.1
CUR. (AMPS)	1.7	2	1.4	1.25	1.75	1.9	2	1.4	1.25	1.75
POINT NO.										
SEP. (n)	1	5	4	3	2	1	6	5	4	3
H. F. MV	6.46	6.11	11.6	34.7	96.5	5.46	1.46	2.53	6.32	14.3
DRIFT	0	0	0	0	0	-1	0	0	0	0
1.0 PFE $K_n/1000$										
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c										
3.0 MV $\rho/2\pi$	1140	321	497	833	662	862	123	190	303	245
DRIFT MCF	1.9	5.6	4.2	2.8	3.9	3.5	3.2	9.0	5.3	8.6
S. P.	-4.8	+13.4					+6.9			
NOISE	0	±2	±1	0	0	0	±5	±3	0	0
POT RES.	8.5	10					12			
CULT & CMTS						3 times 4.2, 3.2				

I. P. RECEIVER NOTES, JOB No. 1545 AREA Mesa B

LINE 2, HALF E, SP. 2, a = 1000', BEARING N 66° E

SENDER STA. 0 = ELECTRODE No. 4, DATE 10/6/81

PAGE R-2

HEINRICHS GEOEX

SEND	5-6	6-7	2-3	4-5	6-7	CAL					
RECEIVE			20-30			CAL					
MULTIPLIER	1.0	10	0.1	0.1	1.0	1.0					
PFE	+2.1	+0.3	+0.9	+2.0	+0.4	0					
CUR. (AMPS)	1.9	2.4	1.4	1.7	2.4	1					
POINT NO.											
SEP. (n)	2	1	6	4	2						
H. F. MV	46.9	509	1.05	4.71	95.5	99.5					
DRIFT	0	0	0	+1	0	0					
1.0 PFE K_n/1000											
0.3 PFE ρ_{CAL}											
0.1 PFE PFE_c											
3.0 MV $\rho/2\pi$	296	630	126	166	478						
DRIFT MCF	7.1	0.47	7.1	12.0	0.84						
S. P.			-13.4								
NOISE	0	0	±3	0	0	0					
POT RES.			18								
CULT & CMTS											

Mesa B

Line 2 Spread 2

JGOTO 41

VOLTAGE(MV)	CURRENT(A)	N
28.1	.7	2
78.3	.4	1
11.6	.7	3
25.4	.4	2
323	.33	1
14	2	4
31.4	1.4	3
156	1.25	2
643	1.75	1
6.14	2	5
11.8	1.4	4
35	1.25	3
96.2	1.75	2
569	2	1
1.47	2	6
2.58	1.4	5
6.38	1.25	4
14.4	1.75	3
45.4	2	2

RESISTIVTY	PFE	MCF
481.714286	.4	.830367734
587.25	.5	.851426139
497.142858	.9	1.81024483
762	.6	.787401575
2936.36364	.6	.204334365
420	3.3	7.85714286
672.857143	3.2	4.75583864
1497.6	2.8	1.86965812
1102.28571	2.8	2.54017626
322.35	2.2	6.82487979
505.714286	2.3	4.5480226
840	2.4	2.85714286
659.657143	2.8	4.24462925
853.5	2.2	2.57762156
123.48	1.5	12.1477162
193.5	1.6	8.26873386
306.24	1.8	5.87774295
246.857143	1.8	7.29166667
272.4	10.5	38.5462555

P_8 1,2

INPUT CORRECTIONS IF NEEDED THEN GOTO 41

JPR30

?SYNTAX ERROR
JPR#0
JGOTO 541

VOLTAGE(MV)	CURRENT(A)	N
527	2.5	1
.675	1.6	6
2.77	1.75	4
99.7	2.5	2
320	2.5	2
2000	2	1
57.5	2.5	3
368	1.75	1
17.4	2.5	4
34	2	3
43.6	1.25	1
10	2.4	5
16.1	1.9	4
28.6	1.7	3
114	1.25	2
867	1.4	1
6.82	2.4	6
8.97	1.9	5

RESISTIVTY	PFE	MCF
632.4	.3	.474383302
70.875	6.8	95.9435626
94.9714286	6.9	72.6534296
478.56	.3	.626890642
1536	1.4	.911458333
3000	.5	.166666667
690	1.9	2.75362319
630.857143	.5	.792572464
417.6	2.1	5.02873563
510	.8	1.56862745
104.64	8.2	78.3639144
437.5	2.4	5.48571429
508.421053	.9	1.77018634
504.705883	1.1	2.17948718
1094.4	.9	.822368421
1857.85714	.9	.484429065
477.4	2.6	5.44616674
495.710526	1.1	2.219037

P_8 3,4

INPUT CORRECTIONS IF NEEDED THEN GOTO 41

JPRINT "END ODF PAGES 1,2,3,AND4 4#"
END OF PAGES 1,2,3,AND 4

JPR"0

?SYNTAX ERROR
JPR#0
JGOTO 41

VOLTAGE(MV)	CURRENT(A)	N
13	1.7	4
40.4	1.25	3
145	1.4	2
554	2	1
3.74	1.9	6
4.79	1.7	5
12.3	1.25	4
36.4	1.4	3
103	2	2
3.07	1.7	6
6.85	1.25	5
17.8	1.4	4
41.6	2	3
4.01	1.25	6
9.39	1.4	5
20.5	2	4

RESISTIVTY	PFE	MCF
458.82353	1.3	2.83333333
969.600001	1.4	1.44389439
1242.85714	1.1	.885057471
831	.7	.842358604
330.694737	1.2	3.62872422
295.852941	1.8	6.08410379
590.4	1.8	3.04878049
780	1.3	1.66666667
618	.9	1.45631068
303.388235	2	6.59221344
575.4	1.7	2.95446646
762.857143	1.5	1.96629214
624	1.1	1.76282051
538.944	1.5	2.78322052
704.25	1.3	1.84593539
615	1.2	1.95121951

P_7 5,6

INPUT CORRECTIONS IF NEEDED THEN GOTO 41

JPRINT PAGES 5,6
0 6

JPR#0
JGOTO 41

VOLTAGE(MV)	CURRENT(A)	N
646	1.7	1
6.11	2	5
11.6	1.4	4
34.7	1.25	3
96.5	1.75	2
546	1.9	1
1.46	2	6
2.53	1.4	5
6.32	1.25	4
14.3	1.75	3
46.9	1.9	2
509	2.4	1
1.05	1.4	6
4.71	1.7	4
95.5	2.4	2

RESISTIVTY	PFE	MCF
1140	2.1	1.84210526
320.775	1.8	5.61140987
497.142857	2.1	4.22413793
832.8	2.3	2.76176753
661.714286	2.6	3.92918826
862.105263	3	3.47985348
122.64	.4	3.2615786
189.75	1.7	8.95915678
303.36	1.6	5.2742616
245.142857	2.1	8.56643357
296.210526	2.1	7.08955224
636.25	.3	.47151277
126	.9	7.14285714
166.235294	2	12.0311394
477.5	.4	.837696335

P_7 P_1, P_2

INPUT CORRECTIONS IF NEEDED THEN GOTO 41

I. P. SENDER NOTES

JOB No. 1545 AREA Mesa B

LINE 2, HALF E, SP. 2, DATE 10/1/82

PAGE 1

HEINRICHS GEOEX

SEND	Cal	1-2	2-3	1-2	2-3	3-4		Cal	1-2	2-3
RECEIVE	Cal	80-70m		70-60m				Cal	60-50m	
RANGE	2-B							2-B		
VOLTAGE	480	840	800	840	800	820		200	520	670
CURRENT	1	.7	.4	.7	.4	.33		1	2	1.4
SEND	3-4	4-5	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4
RECEIVE			50-40m					40-30m		
RANGE										
VOLTAGE	660	635	520	670	660	635	590	520	670	655
CURRENT	1.25	1.75	2	1.4	1.25	1.75	2	2	1.4	1.25

10/5/82

FREQUENCIES 0.1-1.0

SENDER No. 1662

OPERATOR Wahl

RECEIVER No. DeDamp

OPERATOR Zeller

POWER UNIT ID: B&S ETN2

HOURS RUN: 2

COMMENTS:

I. P. SENDER NOTES

JOB No. 1545 AREA Mesa B

LINE 2, HALF East, SP. 2, DATE 10/5/81

PAGE 2

HEINRICHS GEOEX

										West*
SEND	4-5	5-6	6-7	2-3	4-5	6-7	Cal	Cal	Cal	6-7
RECEIVE				30-20w			Cal		Cal	80-90w
RANGE			2-C	2B		2C	2C		2C	
VOLTAGE	630	590	480	760	620	480	200		200	480
CURRENT	1.75	2	2.5	1.65	1.25	2.5	1		1	2.5
SEND	5-6	6-7	4-5	6-7	5-6	3-4	Cal			
RECEIVE		90-100w		100-110			Cal			
RANGE	2B	2C	2B	2-C	2B		2C			
VOLTAGE	590	480	625	480	590	655	200			
CURRENT	2	2.5	1.75	2.5	2	1.25	1			

Changed Sender & Receiver

FREQUENCIES 1.0 - 0.1

SENDER No. 9662

OPERATOR Wahl

RECEIVER No. Dy Damp

OPERATOR Zeller

POWER UNIT ID 845 ET N2

HOURS RUN 5 Damp

COMMENTS:

continuation of west half.

I. P. SENDER NOTES

JOB No. 1545 AREA Mesa B

LINE 2, HALF W, SP. 2, DATE 10/6/81

PAGE 3

HEINRICHS GEOEX

SEND	6-7	5-6	4-5	3-4	2-3	6-7	5-6	4-5	3-4	2-3
RECEIVE	110-120W					120-130W				
RANGE	2C	2B				2C	2B			
VOLTAGE	480	730	780	720	730	490	740	780	720	730
CURRENT	2.4	1.9	1.7	1.25	1.4	2.4	1.9	1.7	1.25	1.4
SEND	1-2	5-6	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2
RECEIVE		130-140					140-150			
RANGE	2B									
VOLTAGE	550	730	770	710	720	550	770	700	720	550
CURRENT	2	1.9	1.7	1.25	1.4	2	1.7	1.25	1.4	2

FREQUENCIES 1 - 0.1

SENDER No. 9662S

POWER UNIT ID

OPERATOR HORBATT

RECEIVER No. S DAMA

HOURS RUN

OPERATOR ZELLER

1 1/2

COMMENTS:

I. P. SENDER NOTES

JOB No. 1545 AREA MESA B

LINE 2, HALF W, SP. 2, DATE 10-6-81

PAGE 4

HEINRICHS GEOEX

SEND	3-4	2-3	1-2							
RECEIVE	150-160W	—	—							
RANGE	2B	—	—							
VOLTAGE	700	710	540							
CURRENT	1.25	1.4	2							
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES	1 — 0.1		COMMENTS:
SENDER No.	96625	POWER UNIT ID	
OPERATOR	HORBATT		
RECEIVER No.	S. DAMP	HOURS RUN	
OPERATOR	ZELLER		

I. P. SENDER NOTES

JOB No. 1545 AREA Mesa B

LINE 2, HALF E, SP. 2, DATE 10/6/81

PAGE P1

HEINRICHS GEOEX

SEND	4-5	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5
RECEIVE	60-50w	50-40w	—	—	—	—	40-30w	—	—	—
RANGE	2-B	—	—	—	—	—	—	—	—	—
VOLTAGE	740	530	690	675	760	695	530	685	670	760
CURRENT	1.7	2	1.4	1.25	1.7	1.9	2	1.4	1.25	1.7
SEND	5-6	6-7	2-3	4-5	6-7	Call				
RECEIVE	—	—	30-20w	—	—	Call				
RANGE	—	2C	2B	—	2C	2-low				
VOLTAGE	695	470	685	740	470	430				
CURRENT	1.9	2.4	1.4	1.7	2.4	1				

FREQUENCIES 0.1 – 1.0

SENDER No. 9662

OPERATOR Wahl

RECEIVER No. S. Pamp

OPERATOR Zelter

POWER UNIT ID B+S 5JN2

HOURS RUN 1.7

COMMENTS:

HEINRICHS GEOEXPLORATION COMPANY

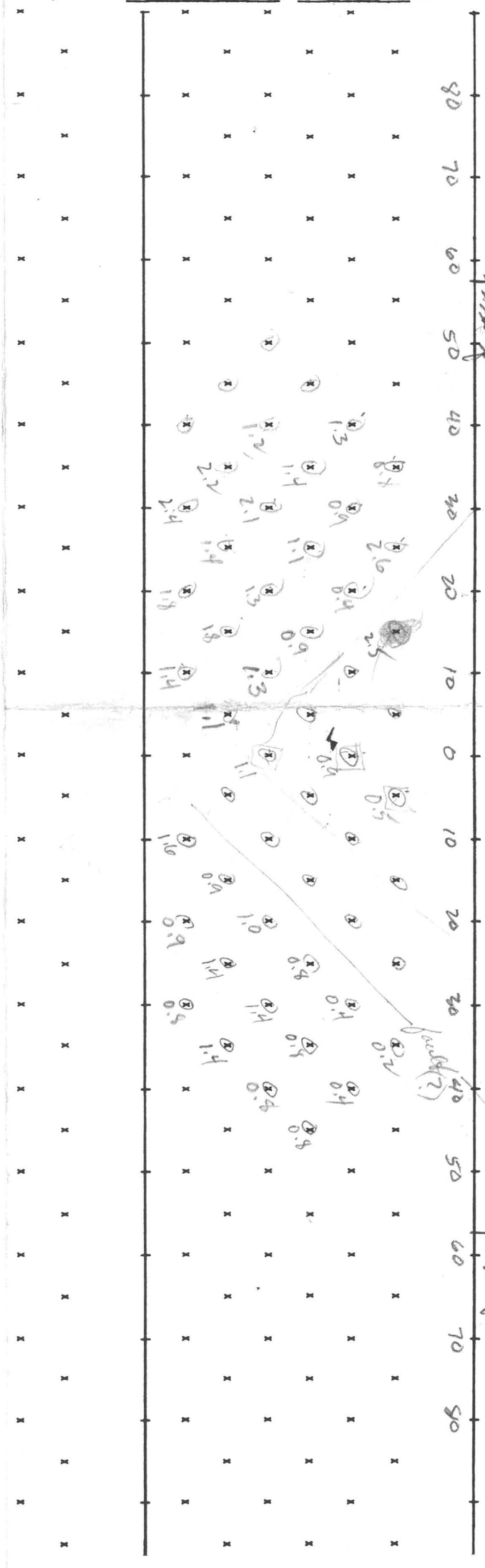
806 W. GRANT RD., P.O. BOX 5964 TUCSON, ARIZ. 85703. PH: (602) 623-0578

JOB # 1545 CLIENT CSI T1

DATE 10/8/81 AREA Mosa A

LINE# V SP 1 a= 1000 BEARING N59°E & 59°W

RESISTIVITY FREQUENCIES _____ FREQUENCIES _____ & _____ Hz



I. P. RECEIVER NOTES, JOB No. 1545, AREA Mesa A

LINE 2, HALF E, SR. 1, a = 1000', BEARING N59°E + S79°W

SENDER STA. 0 = ELECTRODE No. 4, DATE 10/8/81

PAGE 1

HEINRICHS GEOEX

SEND	CAL	1-2	2-3	1-2	2-3	3-4	1-2	2-3	3-4	4-5
RECEIVE	CAL	0-10E	—	10-20E	—	—	20-30E	—	—	—
MULTIPLIER	1.0	10	10	1.0	1.0		1.0	1.0	1.0	10
PFE	0	+0.8	+0.5	+1.1	+0.8		+1.2	+0.8	+0.8	+0.4
CUR. (AMPS)	1	1.25	.95	1.25	.95		1.25	.95	.75	.65
POINT NO.										
SEP. (n)	—	2	1	3	2	1	4	3	2	1
H. F. MV	99.4	148	34.6	51.8	82.0		20.8	26.2	46.5	171
DRIFT	0	0	0	0	0		+1	0	0	0
1.0 PFE K_n/1000										
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c										
3.0 MV $\rho/2\pi$		1421	1093	1243	1036		998	827	744	789
DRIFT MCF		0.56	0.46	0.88	0.77		1.2	0.97	1.1	0.51
S. P.	—	+8.7	—	-28.7	—	—	+1.5	—	—	—
NOISE	0	0	0	0	0		0	0	0	0
POT RES.	—	14	—	34	—	—	4.5	—	—	—
CULT & CMTS	D Damp would not call & neither would S Damp if in series with D Damp									

I. P. RECEIVER NOTES, JOB No. 1545, AREA Mesa A

LINE 2, HALF E, SP. 1, a = 1000', BEARING 1) 59°E & 59°W

SENDER STA. 0 = ELECTRODE No. 4, DATE 10/8/81

PAGE 2

HEINRICHS GEOEX

SEND		1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5	5-6
RECEIVE		30-40E					40-50E				
MULTIPLIER		0.1	0.1	0.1	1.0	10	1.0	1.0	1.0	1.0	10
PFE		+1.3	+0.7	+0.6	+0.6	+0.1	+1.6	+0.9	+1.0	+0.8	+0.4
CUR. (AMPS)		1.25	.95	.75	.65	1.0	1.25	.95	.75	.65	1.0
POINT No.											
SEP. (n)		5	4	3	2	1	6	5	4	3	2
H. F. MV		5.32	5.91	9.24	26.0	338	13.8	14.4	21.2	51.8	444
DRIFT		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										
3.0 MV	$\rho/2\pi$	447	373	371	480	1014	1855	1592	1696	2391	5328
DRIFT	MCF	2.9	1.9	1.6	1.3	0.10	0.86	0.57	0.59	0.33	0.08
S. P.		+1.4					0				
NOISE		±1	0	0	0	0	±1	±1	0	0	0
POT RES.		6					6				
CULT & CMTS							*NOTE	MV change			

I. P. RECEIVER NOTES, JOB No. 1545, AREA Mesa A

LINE 2, HALF E, SP. 1, a = 1000', BEARING N59°E-S79°W

SENDER STA. 0 = ELECTRODE No. 4, DATE 10/8/81

PAGE 3

HEINRICHS GEOEX

SEND	6-7	2-3	3-4	4-5	5-6	6-7	3-4	4-5	5-6	6-7
RECEIVE		50-60E					60-70E			
MULTIPLIER	100	0.1	0.1	1.0	1.0	10	0.1	0.1	1.0	10
PFE	+0.2	+0.9	+1.4	+1.4	+0.8	+0.4	+0.8	+1.4	+0.8	+0.8
CUR. (AMPS)	3.5	.95	.75	.65	1.0	3.5	.75	.65	1.0	3.5
POINT No.										
SEP. (n)	1		5	4	3	2	6	5	4	3
H. F. MV	5100	4.88	6.04	11.5	70.1	601	3.46	5.51	24.5	165
DRIFT	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										
3.0 MV $\rho/2\pi$	4371	863	846	1062	2103	2061	775	890	1470	1414
DRIFT MCF	0.05	1.0	1.7	1.3	0.38	0.19	1.0	1.6	0.54	0.57
S. P.		-0.8					+3.7			
NOISE	0	±1	±1	0	0	0	±3	0	0	0
POT RES.		8					10			
CULT & CMTS		56E	Barb wire fence		459					

I. P. RECEIVER NOTES, JOB No. 1545, AREA Rosa A

LINE 2, HALF E, SP. 1, a = 1000', BEARING N59°E-57°W

SENDER STA. 0 = ELECTRODE No. 4, DATE 10/8/81

PAGE 4

HEINRICHS GEOEX

SEND	4-5	5-6	6-7		5-6	5-6	6-7	3-4	6-7	5-6
RECEIVE	30-40E	—	—		0-10 W	10-20W	20-30W	—	30-40W	→
MULTIPLIER	0.1	0.1	1.0		10	1.0	1.0	10	1.0	1.0
PFE	+0.7	+1.4	+1.2		+0.5	+0.9	+1.1	+2.5	+1.1	+1.3
CUR. (AMPS)	.65	1.0	3.5		1.0	.95	3.5	.72	3.5	.95
POINT NO.										
SEP. (n)	6	5	4		1	2	4	1	5	4
H. F. MV	2.65	9.05	52.4		305	84.8	58.5	218	21.7	12.4
DRIFT	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										
3.0 MV $\rho/2\pi$	685	950	898		915	1017	1003	908	651	783
DRIFT MCF	1.0	1.5	1.3		0.55	0.84	1.1	2.8	1.7	1.7
S. P.	-25.7	—	—		-11.0	+23.6	-14.7	—	-3.4	→
NOISE	±V	±V	0		0	0	0	0	0	0
POT RES.	30	—	—		18	29	23	—	13	→
CULT & CMTS										

West Mt

Cal 99.9 0 || 10/8/81 Cal 98.0 – 0

I. P. RECEIVER NOTES, JOB No. 1545, AREA Mosa A

LINE V, HALF W, SP. 1, a = 1000', BEARING N54E° S74W

SENDER STA. 0 = ELECTRODE No. 4, DATE 10/9/81

PAGE 5

HEINRICHS GEOEX

SEND	4-5	3-4	2-3	6-7	5-6	4-5	3-4	2-3	1-2	5-6
RECEIVE				40-50W						50-60W
MULTIPLIER	1.0	1.0	10	1.0	1.0	1.0	1.0	10	10	0.1
PFE	+0.9	+0.4	+0.2	+1.4	+1.8	+1.3	+1.1	+0.9	+0.8	+1.8
CUR. (AMPS)	.59	.72	.90	3.5	.95	.59	.71	.90	1.25	.95
POINT No.										
SEP. (n)	3	2	1	6	5	4	3	2	1	6
H. F. MV	17.9	42.3	231	28.7	14.8	18.5	33.8	156	545	4.68
DRIFT	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										
3.0 MV $\rho/2\pi$	910	705	770	1378	1636	1881	1428	2080	1308	828
DRIFT MCF	1.0	0.57	0.26	1.0	1.1	0.69	0.77	0.43	0.61	2.2
S. P.				+5.0						-19.8
NOISE	0	0	0	0	0	0	0	0	0	±1
POT RES.				13.5						27
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 1545, AREA Mesa A

LINE 2, HALF (2), SP. 1, a = 1000', BEARING N59E S79W

SENDER STA. 0 = ELECTRODE No. 4, DATE 10/ /81

PAGE 6

HEINRICHS GEOEX

SEND	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2	3-4	2-3
RECEIVE					60-70W				70-80W	→
MULTIPLIER	0.1	0.1	1.0	1.0	0.1	0.1	0.1	1.0	0.1	0.1
PFE	+1.4	+2.1	+1.4	+1.3	+2.4(?)	+2.2	+1.2	+1.0	+2.0	+1.7
CUR. (AMPS)	.59	.71	.90	1.25	.59	.71	.90	1.25	.71	.90
POINT NO.										
SEP. (n)	5	4	3	2	6	5	4	3	6	5
H. F. MV	4.59	6.78	18.7	51.6	2.75	3.70	8.12	18.8	2.19	4.38
DRIFT	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										
3.0 MV / $\rho/2\pi$	817	573	623	495	783	547	541	451	518	511
DRIFT / MCF	1.7	3.7	2.2	2.6	3.1	4.0	2.2	2.2	3.9	3.3
S. P.					+17.3				+12.7	→
NOISE	0	0	0	0	±3	±2	0	0	±5	±1
POT RES.					26				205	→
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 1545 AREA Mesa A PAGE 7

LINE 2, HALF W, SP. 1, a = 1000', BEARING N59E 5794

SENDER STA. 0 = ELECTRODE No. 4, DATE 10/9/81

HEINRICHS GEOEX

SEND		1-2	CAL								
RECEIVE		—	CAL								
MULTIPLIER		0.1	1.0								
PFE		+1.0	0								
CUR. (AMPS)		1.25	1								
POINT No.											
SEP. (n)		4	—								
H. F. MV		9.11	99.6								
DRIFT			0								
1.0 PFE	$K_n/1000$										
0.3 PFE	ρ_{CAL}										
0.1 PFE	PFE_c										
3.0 MV	$\rho/2\pi$	437									
DRIFT	MCF	2.3									
S. P.		—	—								
NOISE		±1	0								
POT RES.		—	—								
CULT & CMTS											

I. P. SENDER NOTES

JOB No. 1545 AREA Mesa A

LINE 2, HALF E, SP. 1, DATE 10/8/81

PAGE 1

HEINRICHS GEOEX

SEND	CAL	1-2	2-3	1-2	2-3	3-4	1-2	2-3	3-4	4-5
RECEIVE	CAL	0-10E	—	10-20E	—	—	20-30E	—	—	—
RANGE		2B	—	—	—		2B	—	—	—
VOLTAGE		780	820	7.80	820		780	820	820	840
CURRENT		1.25	.95	1.25	.95		1.25	.95	.75	.65
SEND	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5	5-6
RECEIVE	30-40E	—	—	—	—	40-50E	—	—	—	—
RANGE	—	—	—	—	—	—	—	—	—	—
VOLTAGE	780	820	820	830	770	770	820	820	830	760
CURRENT	1.25	.95	.75	.65	1	1.25	.95	.75	.65	1

FREQUENCIES 1-0.1

SENDER No. 96625

OPERATOR HORBATT

RECEIVER No. S. DANA

OPERATOR ZELLER

POWER UNIT ID: B+S

HOURS RUN: 1

COMMENTS:

I. P. SENDER NOTES

JOB No. 1545 AREA Mesa A

LINE 2, HALF E, SP. 1, DATE 10/8/81

PAGE 2

HEINRICHS GEOEX

SEND	6-7	2-3	3-4	4-5	5-6	6-7	3-4	4-5	5-6	6-7
RECEIVE		50-60E					60-70E			
RANGE	C-4	B-2				C-4	B-2			C-4
VOLTAGE	250	820	820	820	750	250	820	820	750	250
CURRENT	3.5	.95	.75	.65	1	3.5	.75	.65	1	3.5
SEND	4-5	5-6	6-7	5-6	Cal		Cal 6-7	5-6	6-7	3-4
RECEIVE	70-80E			0-10w	Cal		Cal	10-20w	20-30w	
RANGE	B-2		C-4	B-2			4-C	B-2	C-4	B-2
VOLTAGE	810	730	250	720			80	830	260	840
CURRENT	.65	1	3.5	1			1	.95	3.5	.72

FREQUENCIES	1.0 - 0.1		
SENDER No.	9662	POWER UNIT ID	
OPERATOR	Wahl	B+S ETN2	
RECEIVER No.	S. Pang	HOURS RUN	
OPERATOR	Zeller	2	

COMMENTS: Barbed Wire Fence 56 E.

I. P. SENDER NOTES

JOB No. 1545 AREA Mega A.

LINE 2, HALF W, SP. 1, DATE 10/9/81

PAGE 3

HEINRICHS GEOEX

SEND	6-7	5-6	4-5	3-4	2-3	6-7	5-6	4-5	3-4	2-3
RECEIVE	30-40n					40-50n				
RANGE	C-4	B-2				C-4	B-2			
VOLTAGE	260	825	845	840	820	255	825	840	840	830
CURRENT	3.5	.95	.59	.72	.9	3.5	.95	.59	.72	.90
SEND	1-2	5-6	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2
RECEIVE		50-60n					60-70n			
RANGE										
VOLTAGE	790	820	840	840	830	790	840	840	825	790
CURRENT	1.25	.95	.59	.71	.90	1.25	.59	.72	.9	1.25

FREQUENCIES 1.0-0.1

SENDER No. 9662

OPERATOR Wahl

RECEIVER No. 3 Damp

OPERATOR Zeller

POWER UNIT ID B+S EJN2

HOURS RUN 2

COMMENTS:

I. P. SENDER NOTES

JOB NO. 1045 AREA Mesa A

LINE 2, HALF W, SP. 1, DATE 10/9/82

PAGE 4

HEINRICHS GEOEX

SEND	3-4	2-3	1-2	Cal						
RECEIVE	76-80			Cal						
RANGE				HC						
VOLTAGE	830	820	785							
CURRENT	.7	.9	1.25	1						
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES 0.1-1.0

SENDER NO. 9602 — POWER UNIT ID

OPERATOR Wahl — BHS EJN2

RECEIVER NO. 3 Dano — HOURS RUN

OPERATOR Zellen

COMMENTS:

HEINRICHS GEOEXPLORATION COMPANY

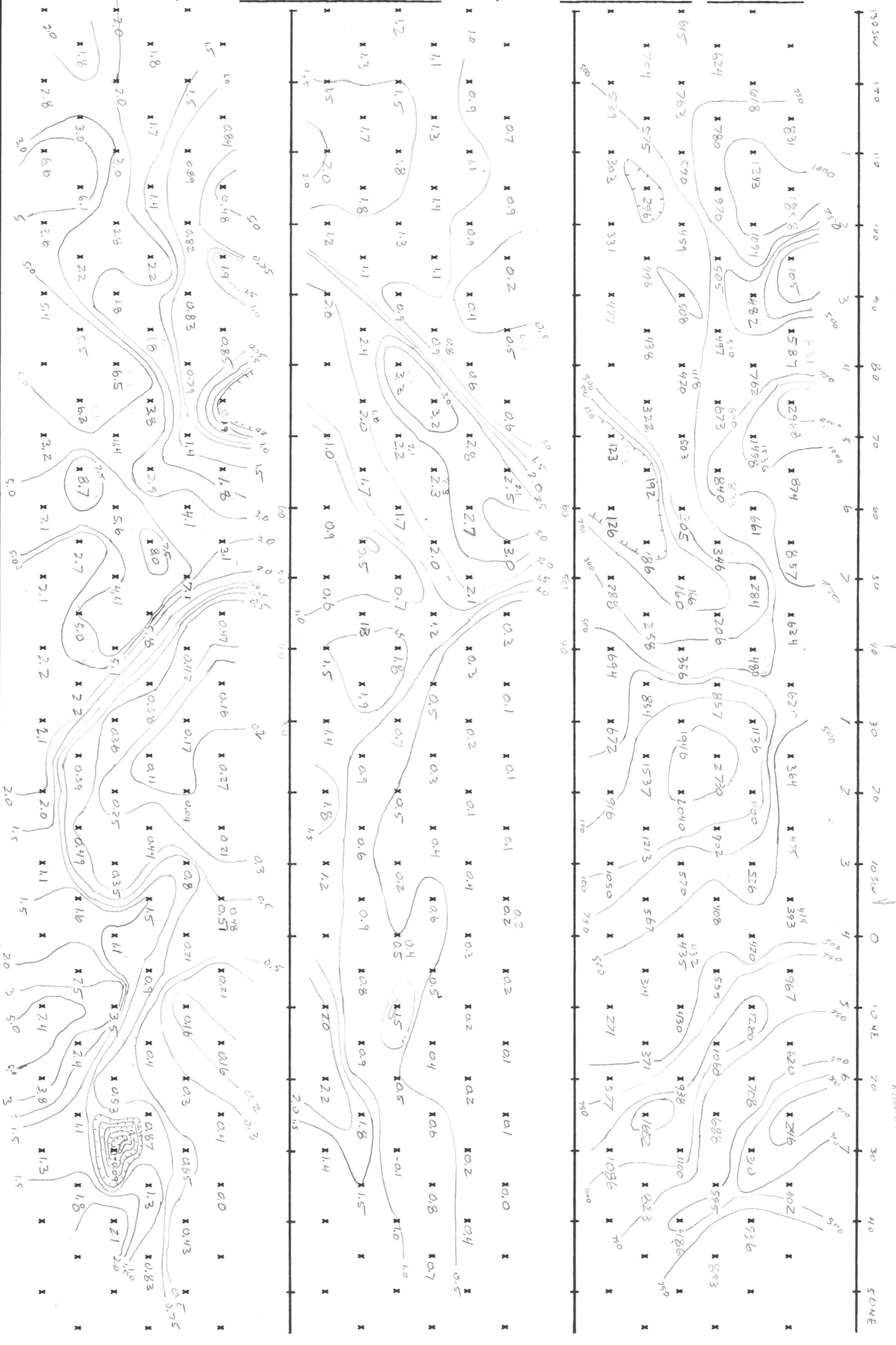
806 W. GRANT RD., P.O. BOX 5964 TUCSON, ARIZ. 85703. PH: (602) 623-0578

JOB # 1545 CLIENT TI

DATE 9-29-81 AREA MESA B

LINE# Z SP 1 a= 10000 BEARING

RESISTIVITY FREQUENCIES 0.1 FREQUENCIES 1.0 & 0.1 Hz



Mesa B Line 2 sp 1

0 E	0	0 W	0
10	12.8	10	12.5
20	15.0	20	-5.0
30	18.4	30	2.4
40	31.8	40	-0.8
50	4.2	50	-25.5
60	26.1	60	-20.5
70 E	20.6	70 W	-30.3
		80 W	-28.1
		90 W	-24.1

Mesa B Line 2 sp. 2

80 W	0	80	0
70	2.1	90	-9.6
60	-6.3	100	6.7
50	-14.7	110	6.4
40	11.8	120	2.4
30 W	25.3	130	15.1
20 W	14.2	140	20.3
		150	57.9
		160	22.0

Mesa B Line 1 sp. 1

0 E	0	0 W	0
10	-3.7	10	-5.4
20	24.3	20	-32.2
30	-6.2	30	1.9
40	-5.6	40	-24.7
50	0.6	50	9.7
60	2.4	60	-17.7
70 E	11.2	70 W	-19.2

Mesa B Line 1 sp. 2

0.3	60 W	0	60 W	0
	50	24.7	70	-6.5
	40	1.7	80	8.6
	30	25.7	90	-5.3
	20	11.9	100	40.3
	10 W	42.0	110	11.8
	0	52.6	120	40
			130	17

Mesa 1 Line 1

0 N	0	0 S	0
10	-11.0	10	-11.1
20	11.2	20	21.8
30	26.8	30	11.8
40	1.3	40	27.3
50	-1.6	50	6.7
60	6.4	60	40.1
70 N	-8.1	70 S	23.6

Mesa 1 Line 2

0 E	0	0 W	0
10	8.7	10	-11.0
20	-20.0	20	12.6
30	-18.5	30	-2.1
40	-17.1	40	-5.5
50	-17.1	50	-0.5
60	-17.9	60	-20.3
70 E	-14.2	70 W	-3.0
80 E	-39.9	80 W	9.7

I. P. RECEIVER NOTES, JOB No. 1545, AREA Mesa B

LINE 2, HALF E, SP. 1, a = 1000, BEARING N66E

SENDER STA. 0 = ELECTRODE No. 4, DATE 9/29/81

PAGE 1

HEINRICHS GEOEX

SEND	CAL	1-2	2-3	1-2	2-3	3-4	1-2	2-3	3-4	4-5
RECEIVE	CAL	0-10E	—	10-20E	—	—	20-30E	—	—	—
MULTIPLIER	1.0	1.0	10	1.0	1.0	10	1.0	1.0	10	10
PFE	0	+0.4	+0.2	+0.6	+0.3	+0.2	+0.5	+0.5	+0.2	+0.1
CUR. (AMPS)	1	2	3	2	3	3	2	3	3	3
POINT No.										
SEP. (n)	—	2	1	3	2	1	4	3	2	1
H. F. MV	101	97.7	39.3	27.2	10.5	96.7	14.5	55.5	320	620
DRIFT	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										
3.0 MV / $\rho/2\pi$		562	393	408	420	967	435	555	1280	620
DRIFT / MCF		0.8	0.51	1.5	0.71	0.21	1.2	0.9	0.16	0.16
S. P.	—	+12.4	—	+12.2	—	—	+3.4	—	—	—
NOISE	0	0	0	0	0	0	±1	0	0	0
POT RES.	—	14.5	—	2.5	—	—	4	—	—	—
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 1545, AREA Mesa B

LINE 2, HALF E, SP. 1, a = 1000, BEARING N66°E

SENDER STA. 0 = ELECTRODE No. 4, DATE 9/29/81

PAGE 2

HEINRICHS GEOEX

SEND	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5	5-6
RECEIVE	30-40E					40-50E				
MULTIPLIER	0.1	1.0	1.0	10	10	0.1	0.1	1.0	1.0	1.0
PFE	+0.8(?)	+1.5(?)	+0.4	+0.2	+0.0	+2.0(?)	+0.9	+0.5	+0.6	+0.2
CUR. (AMPS)	2	3	3	3	2	2.2	3	3	3	2
POINT NO.										
SEP. (n)	5	4	3	2	1	6	5	4	3	2
H. F. MV	5.99	21.5	106	177	164	3.55	10.6	46.9	68.8	51.6
DRIFT	0	0	0	0	+1.5	0	0	0	0	0
1.0 PFE / K_n/1000										
0.3 PFE / ρ_{CAL}										
0.1 PFE / PFE_c										
3.0 MV / $\rho/2\pi$	314	430	1060	708	246	271	371	938	688	310
DRIFT / MCF	2.5	3.5	0.4	0.3	0.4	7.4	2.4	0.53	0.87	0.65
S. P.	+13.4					-27.6				
NOISE	±2	0	0	0	0	±2	±1	0	0	0
POT RES.	14.5					26				
CULT & CMTS						Pot man lost bottom from pot				

I. P. RECEIVER NOTES, JOB No. 1545, AREA MeoA B

LINE 2, HALF E, SP. 1, a = 1000, BEARING N 60E

SENDER STA. 0 = ELECTRODE No. 4, DATE 9/29/81

PAGE 3

HEINRICHS GEOEX

SEND		6-7	2-3	3-4	4-5	5-6	6-7	3-4	4-5	5-6	6-7
RECEIVE		—	50-60E	—	—	—	—	60-70E	—	—	—
MULTIPLIER		10	0.1	1.0	1.0	1.0	10	1.0	1.0	1.0	1.0
PFE		0.0	+2.2(?)	+1.8(?)	−0.1	+0.8	+0.4	+1.4(?)	+1.5(?)	+1.0(?)	+0.7(?)
CUR. (AMPS)		2	3	3	3	2	2	3	3	2	2
POINT No.											
SEP. (n)		1	6	5	4	3	2	6	5	4	3
H. F. MV		268	10.3	42.7	55.0	39.1	156	19.4	23.5	16.2	56.2
DRIFT		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										
3.0 MV	$\rho/2\pi$	402	577	1652	1100	595	936	1086	823	486	843
DRIFT	MCF	0.0	3.8	1.1	−0.09	1.3	0.43	1.29	1.8	2.1	0.83
S. P.		—	+21.9	—	—	—	—	−5.5	—	—	—
NOISE		0	±2	0	0	0	0	±1	0	±1	0
POT RES.		—	21	—	—	—	—	3	—	—	—
CULT & CMTS											

I. P. RECEIVER NOTES, JOB No. 1545, AREA Mesa B

LINE 2, HALF W, SR 1, a = 1000', BEARING N66°E

SENDER STA. 0 = ELECTRODE No. 4, DATE 9/19/81

PAGE 4

HEINRICHS GEOEX

SEND	6-7	4-5	6-7	3-4	6-7	5-6	4-5	3-4	2-3	CAL
RECEIVE	0-10W	10-20W	20-30W	—	30-40W	—	—	—	—	CAL
MULTIPLIER	10	10	1.0	10	1.0	1.0	1.0	10	10	1.0
PFE	35(?)	+0.2	+0.4	+0.1	+0.9	+0.2	+0.4	+0.1	+0.1	0
CUR. (AMPS)	2	3	2	3	2	2	3	3	3	1
POINT NO.										
SEP. (n)	2	1	4	1	5	4	3	2	1	—
H. F. MV	134	414	14.4	475	10.8	19.0	90.2	275	364	101
DRIFT	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										
3.0 MV $\rho/2\pi$	804	414	432	475	567	570	902	1100	364	
DRIFT MCF	—	0.48	0.93	0.21	1.6	0.35	0.44	0.09	0.27	
S. P.	+12.5	+17.5	+7.4	—	-3.2	—	—	—	—	—
NOISE	0	0	0	0	±2	±1	0	0	0	0
POT RES.	8.5	12	8	—	4	—	—	—	—	—
CULT & CMTS										

.3 = 29

I. P. RECEIVER NOTES, JOB No. 1545, AREA Mesa 13 PAGE 5

LINE 2, HALF W, SP. 1, a = 1000', BEARING N66°E

SENDER STA. 0 = ELECTRODE No. 4, DATE 9/30/81

HEINRICHS GEOEX

SEND	CAL	6-7	5-6	4-5	3-4	2-3	1-2	5-6	4-5	3-4
RECEIVE	CAL	40-50W						50-60W		
MULTIPLIER	1.0	1.0	1.0	1.0	10	10	10	0.1	1.0	1.0
PFE	0.0	+1.2	+0.6	+0.5	+0.3	+0.2	+0.1	+1.8(?)	+0.9	+0.7
CUR. (AMPS)	1	2	2	3	3	3	2	2	3	3
POINT NO.										
SEP. (n)		6	5	4	3	2	1	6	5	4
H. F. MV	101	12.5	23.1	102	273	289	413	10.9	43.9	97.3
DRIFT	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										
3.0 MV / $\rho/2\pi$		1050	1213	2040	2730	1156	620	916	1537	1946
DRIFT / MCF		1.1	0.49	0.25	0.11	0.17	0.16	2.0	0.59	0.36
S. P.	—	-24.7						+5.0		
NOISE	0	0	0	0	0	0	0	±2	0	0
POT RES.	—	22						5		
CULT & CMTS								Bends	wire fence	57W 45°

I. P. RECEIVER NOTES, JOB No. 1545, AREA Mesa B

LINE V, HALF W, SP. 1, a = 1000, BEARING N66°E

SENDER STA. 0 = ELECTRODE No. 4, DATE 9/30/81

PAGE 6

HEINRICHS GEOEX

SEND	2-3	1-2	4-5	3-4	2-3	1-2	3-4	2-3	1-2	2-3
RECEIVE			60-70 W				70-80 W			80-90 W
MULTIPLIER	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	0.1	0.1
PFE	+0.5	+0.7	+1.4	+1.9	+1.8	+1.7	+1.5	+1.3	+0.7	+0.6
CUR. (AMPS)	3	2	3	3	3	2	3	3	2	3
POINT No.										
SEP. (n)	3	2	6	5	4	3	6	5	4	6
H. F. Mv	86.7	80.2	12.0	24.4	17.8	13.7	12.4	7.38	5.32	5.15
DRIFT	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										
3.0 MV $\rho/2\pi$	867	481	672	854	356	206	694	258	160	288
DRIFT MCF	0.58	0.42	2.1	2.2	5.1	5.8	2.2	5.0	4.4	2.1
S. P.			-9.8				+2.2			+4.0
NOISE	0	0	±1	0	±1	±2	±1	±3	±2	±3
POT RES.			10				2.5			4
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 1545, AREA MESA B

LINE 2, HALF W, SR. 1, a = 1000, BEARING N66E

SENDER STA. 0 = ELECTRODE No. 4, DATE 9/30/81

PAGE 7

HEINRICHS GEOEX

SEND	1.2	CAL									
RECEIVE	—	CAL									
MULTIPLIER	0.1	1.0									
PFE	×0.5	0									
CUR. (AMPS)	2	1									
POINT No.											
SEP. (n)	5	—									
H. F. MV	3.54	101									
DRIFT	0	+1									
1.0 PFE $K_n/1000$											
0.3 PFE ρ_{CAL}											
0.1 PFE PFE_c											
3.0 MV $\rho/2\pi$	186										
DRIFT MCF	2.7										
S. P.	—	—									
NOISE	±5	0									
POT RES.	—										
CULT & CMTS											

frequencies on separate sheet

I. P. SENDER NOTES

JOB No. 1545 AREA Mesa B

LINE 2, HALF E (3-4), SP. 1, DATE 9/29/81

PAGE 1

HEINRICHS GEOEX

SEND	Cu	1-2	2-3	1-2	2-3	3-4	1-2	2-3	3-4	4-5
RECEIVE	Cu	0-10E	—	10-20E	—	—	20-30E	—	—	—
RANGE	2-lo	2-Hi	4-hi	2-hi	4-hi	2-Hi	2	4-hi	2-hi	—
VOLTAGE	120	460	265	460	265	350	460	260	350	400
CURRENT	1	2	3	2	3	3	2	3	3	3
SEND	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5	5-6
RECEIVE	30-40E	—	—	—	—	40-50E	—	—	—	—
RANGE	—	4-hi	2-hi	—	—	—	4-hi	2-hi	—	—
VOLTAGE	460	265	350	400	325	455	260	340	395	320
CURRENT	2	3	3	3	2	2	3	3	3	2

FREQUENCIES 1.0 - 0.1

SENDER No. 9662

POWER UNIT ID B45 EJN2

OPERATOR Wahl

RECEIVER No. D. Gump

HOURS RUN 2

OPERATOR Zc Neil

COMMENTS:

I. P. SENDER NOTES

JOB NO. 1543 AREA Mesa B

LINE 2, HALF E, SP. 1, DATE 9/29/81

PAGE 2

HEINRICHS GEOEX

SEND	6-7	2-3	3-4	4-5	5-6	6-7	3-4	4-5	5-6	6-7
RECEIVE	—	50-60E.	—	—	—	—	60-70E.	—	—	—
RANGE	2-lo	4-hi	2-hi	—	—	2-lo	2-hi	—	—	2-lo
VOLTAGE	660	260	340	395	320	660	340	395	320	660
CURRENT	2	3	3	3	2	2	3	3	2	2
SEND			6-7	4-5	6-7	3-4	6-7	5-6	4-5	3-4
RECEIVE		0-10W	0-10W.	10-20W	20-30W	—	30-40W	—	—	—
RANGE		Lo Hi	2-lo	2-hi	2-lo	2-hi	2-lo	2-hi	—	—
VOLTAGE			655	390	645	340	640	315	385	335
CURRENT			2	3	2	3	2	2	3	3

FREQUENCIES 1.0 - 0.1

SENDER NO. 662 POWER UNIT ID

OPERATOR Wahl 845 EJN2

RECEIVER NO. D. Dump HOURS RUN

OPERATOR Zeller 2

COMMENTS:

I. P. SENDER NOTES

JOB No. 1545 AREA Mesa B

LINE 2, HALF W, SP. 1, DATE 9/29/81

PAGE 3

HEINRICHS GEOEX

SEND	2-3	Cal		Cal	6-7	5-6	4-5	3-4	2-3	1-2
RECEIVE		Cal		Cal	40-50w					
RANGE	4-hi	2-lo		2-hi	2-lo	2-hi			4-hi	2-hi
VOLTAGE	255	115		115	650	320	400	340	260	450
CURRENT	3	1		1	2	2	3	3	3	2
SEND	5-6	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2	3-4
RECEIVE	50-60w					60-70w				70-80w
RANGE				4-hi	2-hi			4-hi	2-hi	
VOLTAGE	320	400	340	260	450	390	340	260	450	340
CURRENT	2	3	3	3	2	3	3	3	2	3

FREQUENCIES 1.0 - 0.1

SENDER No. 9662

OPERATOR Wahl

RECEIVER No. D. Damp

OPERATOR Zeller

POWER UNIT ID B&S ETN2

HOURS RUN

COMMENTS:

I. P. SENDER NOTES

JOB No. 1543 AREA Mesa B

LINE 2, HALF W, SP. 1, DATE 9/30/81

PAGE 4

HEINRICHS GEOEX

SEND	2-3	1-2	2-3	1-2	12	Cal				
RECEIVE	—	—	80-90	—	90-100	Cal				
RANGE	4-hi	2-hi	4-Hi	2-Hi	—	2-Hi				
VOLTAGE	260	440	260			115				
CURRENT	3	2	3	2	2	1				
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES 10 - 0.1

SENDER No. 9667 POWER UNIT ID

OPERATOR Wahl B45 EJN2

RECEIVER No. W. Dana HOURS RUN

OPERATOR Zc Ieff

COMMENTS:

JGOTO 41

MESA B
LINE #2 SP #1
Pg 5,6,7

VOLTAGE(MV)	CURRENT(A)	N
12.5	2	6
23.1	2	5
102	3	4
273	3	3
289	3	2
413	2	1
10.9	2	6
43.9	3	5
97.3	3	4
86.7	3	3
80.2	2	2
12	3	6
24.4	3	5
17.8	3	4
13.7	2	3
12.4	3	6
7.38	3	5
5.32	2	4
5.15	3	6
3.54	2	5

RESISTIVTY	PFE	MCF
1050	1.2	1.14285714
1212.75	.6	.494743352
2040	.5	.245098039
2730	.3	.10989011
1156	.2	.173010381
619.5	.1	.1614205
915.6	1.8	1.96592398
1536.5	.9	.585746827
1946	.7	.35971223
867	.5	.576701269
481.2	.2	.415627598
672	1.4	2.08333333
854	1.9	2.22482436
356	1.8	5.05617978
205.5	1.2	5.83941606
694.4	1.5	2.16013825
258.3	1.3	5.03290747
159.6	.7	4.38596491
288.4	.6	2.08044383
185.85	.5	2.69034167

I. P. RECEIVER NOTES, JOB No. 1545, AREA Mesa B

LINE 1, HALF E, SP. 1, a = 1000', BEARING S53°E

SENDER STA. 0 = ELECTRODE No. 4, DATE 9/21/81

PAGE 1

HEINRICHS GEOEX

SEND	CAL	1-2	2-3	1-2	2-3	3-4	1-2	2-3	3-4	4-5
RECEIVE	CAL	0-10E	—	10-20E	—	—	20-30 E	—	—	—
MULTIPLIER	1.0	1.0	10	1.0	1.0	10	0.1	1.0	1.0	10
PFE	0	+0.4 +0.3	+0.2	+0.5	+0.4	+0.2	-0.5	+0.4	+0.2	0
CUR. (AMPS)	1	2	2	2	2	2	2	2	2	2
POINT NO.										
SEP. (n)		2	1	3	2	1	4	3	2	1
H. F. MV	100.2 100.2	87.7 87.3	60.1	18.1	89.0	32.1	7.61	33.2	96.6	32.5
DRIFT	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										
3.0 MV $\rho/2\pi$		523	902	272	534	482	228	498	580	488
DRIFT MCF		0.76	0.22	1.8	0.75	0.42	-2.2	0.8	0.35	0
S. P.		-3.7	—	+24	—	—	-30.5	—	—	—
NOISE	0	0	0	0	0	0	±1	0	0	0
POT RES.		4	—	24	—	—	32	—	—	—
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 1545, AREA Mesa B

LINE 1, HALF E, SR. 1, a = 1000, BEARING N53°W

SENDER STA. 0 = ELECTRODE No. 4, DATE 9/21/81

PAGE 2

HEINRICHS GEOEX

SEND	CAL		CAL	1-2	2-3	3-4	4-5	5-6	1-2	2-3
RECEIVE	CAL		CAL	30-40E					40-50E	
MULTIPLIER	1.0		1.0	0.1	1.0	1.0	10	10	0.1	1.0
PFE	-0.1	10	0.2	+0.3 +0.3	+0.7	+0.5	+0.3	+0.2	+0.6	+1.0
CUR. (AMPS)	1		1	2	2	2	2	2	2	2
POINT No.										
SEP. (n)	—			5	4	3	2	1	6	5
H. F. MV	101.2	0	100.3	9.55 9.55	39.1	109.6	292	667	4.44	17.2
DRIFT	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										
3.0 MV $\rho/2\pi$				501	1173	1644	1752	1001	373	903
DRIFT MCF				0.60	0.6	0.30	0.17	0.20	1.6	1.1
S. P.				+0.6					+6.2	
NOISE	0		0 0	±1 ±1	±0	0	0	0	±1	0
POT RES.									6	
CULT & CMTS					Pot in wash at 40E					

I. P. RECEIVER NOTES, JOB No. 1545, AREA Mesa B

LINE 1, HALF E, SR. 1, a = 1000', BEARING N53°W

SENDER STA. 0 = ELECTRODE No. 4, DATE 9/22/81

PAGE 3

HEINRICHS GEOEX

SEND	3-4	4-5	5-6	6-7	2-3	3-4	4-5	5-6	6-7	3-4
RECEIVE					50-60E					60-70E
MULTIPLIER	1.0	1.0	10	10	1.0	1.0	1.0	10	10	
PFE	+0.7	+0.6	+0.3	+0.2	+1.2	+0.9	+0.8	+0.4	+0.4	+1.0
CUR. (AMPS)	2	2	2	2	2	2	2	2	2	2
POINT No.										
SEP. (n)	4	3	2	1	6	5	4	3	2	6
H. F. MV	43.7	107	219	505	12.8	27.9	61.7	121	212	10.9
DRIFT	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										
3.0 MV $\rho/2\pi$	1311	1605	1314	758	1075	1464	1851	1815	1272	916
DRIFT MCF	0.53	0.37	0.23	0.26	1.1	0.61	0.43	0.22	0.31	1.1
S. P.					+1.4					+4.8
NOISE	0	0	0	0	0	0	0	0	0	0
POT RES.					4					9
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 1545, AREA Mesa B

LINE ~~A~~, HALF E, SP. 1, a = 1000', BEARING N 53W

SENDER STA. 0 = ELECTRODE No. 4, DATE 9/22/81

PAGE 4

HEINRICHS GEOEX

SEND		4-5	5-6	6-7		6-7	4-5	6-7	3-4	6-7	5-6
RECEIVE		—	—	—		0-10W	10-20W	20-30W	—	30-40W	→
MULTIPLIER		1.0	1.0	1.0		1.0	10	0.1	10	0.1	1.0
PFE		+1.0	+0.8	+0.8		+0.3	+0.7	-0	+0.1	0	+0.5
CUR. (AMPS)		2	2	2		2	2	2	2	2	2
POINT NO.											
SEP. (n)		5	4	3		2	1	4	1	5	4
H. F. MV		21.8	38.2	60.7		95.6	60.3	7.76	23.6	6.24	14.8
DRIFT		-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										
3.0 MV	$\rho/2\pi$	1145	1146	911		574	905	232	354	328	444
DRIFT	MCF	0.87	0.70	0.88		0.52	0.22	0	0.28	0	1.1
S. P.		—	—	—		-5.4	-26.8	+34.1	—	-26.6	—
NOISE		0	0	0		0	0	±1	0	±1	±1
POT RES.		—	—	—		6	28	34	—	26.5	—
CULT & CMTS											

Wed 9/23

I. P. RECEIVER NOTES, JOB No. 1545, AREA Mesa B

LINE 1, HALF W, SP. 1, a = 1000', BEARING N53°W

SENDER STA. 0 = ELECTRODE No. 4, DATE 9/22/81

PAGE 5

HEINRICHS GEOEX

SEND	4-5	3-4	2-3	6-7	5-6	4-5	3-4	2-3	1-2	5-6
RECEIVE				40-50W						50-60
MULTIPLIER	1.0	1.0	10	0.1	0.1	1.0	1.0	1.0	10	0.1
PFE	+0.4	+0.3	+0.2	+0.8	+0.4	+0.5	+0.4	+0.3	+0.1	+0.5
CUR. (AMPS)	2	2	2	2	2	2	2	2	2	2
POINT No.										
SEP. (n)	3	2	1	6	5	4	3	2	1	6
H. F. MV	57.3	105	331	3.31	7.59	26.5	41.3	86.4	113	6.06
DRIFT	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										
3.0 MV $\rho/2\pi$	860	630	497	278	398	795	620	518	170	509
DRIFT MCF	0.47	0.48	0.40	2.9	1.0	0.63	0.65	0.58	0.59	0.98
S. P.				+34.4						-24.7
NOISE	0	0	0	±2	±1	0	0	0	0	±2
POT RES.				35						23.5
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 1545, AREA Mesa B

LINE 1, HALF W, SP. 1, a = 1000', BEARING 55°E

SENDER STA. 0 = ELECTRODE No. 4, DATE 9/22/81

PAGE 6

HEINRICHS GEOEX

SEND	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2	CAL	
RECEIVE					60-70V				CAL	
MULTIPLIER	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
PFE	+0.5	0.5	+0.4	+0.3	+0.6	+0.5	+0.4	+0.2	-0.1	
CUR. (AMPS)	2	2	2	2	2	2	2	2	1	
POINT No.										
SEP. (n)	5	4	3	2	6	5	4	3		
H. F. MV	19.2	28.3	44.2	45.0	11.4	16.2	23.1	20.8	100	
DRIFT	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										
3.0 MV $\rho/2\pi$	1008	849	663	270	958	851	693	312		
DRIFT MCF	0.50	0.59	0.60	1.1	0.63	0.59	0.58	0.64		
S. P.					-1.5					
NOISE	0	0	0	0	±1	±1	0	0	0	
POT RES.					15					
CULT & CMTS										

I. P. SENDER NOTES

JOB No. 1545 AREA MESA B

LINE 1, HALF EAST, SP. 1, DATE 9-21-81

PAGE 1

HEINRICHS GEOEX

SEND	CAL	1-2	2-3	1-2	2-3	3-4	1-2	2-3	3-4	4-5
RECEIVE	CAL	0-10E	—	10-20E	—	—	20-30E	—	—	—
RANGE	2C	—								
VOLTAGE	250	480	470	480	470	400	480	470	400	380
CURRENT	1	2	2	2	2	2	2	2	2	2
SEND	CAL	9-21-81	CAL	1-2	2-3	3-4	4-5	5-6	1-2	2-3
RECEIVE	CAL		CAL	30-40E	—	—	—	—	40-50E	—
RANGE				2C	—	—	—	—	—	—
VOLTAGE	250		255	480	475	400	380	310	480	475
CURRENT	1		1	2	2	2	2	2	2	2

FREQUENCIES

SENDER No. 9662	POWER UNIT ID
OPERATOR HORBATT	B&S EJN2
RECEIVER No. D-DAMP	HOURS RUN
OPERATOR ZELLER	1 1/2

COMMENTS:

I. P. SENDER NOTES

JOB No. 1545 AREA MESA 13

LINE 1, HALF EAST, SP. 1, DATE 9-22-81

PAGE 2

HEINRICHS GEOEX

SEND	3-4	4-5	5-6	6-7	2-3	3-4	4-5	5-6	6-7	3-4
RECEIVE	40-50E	—	—	—	50-60E	—	—	—	—	60-70E
RANGE	2C	—	—	2B	2C	—	—	—	2B	2C
VOLTAGE	400	380	310	710	475	400	380	310	710	400
CURRENT	2	2	2	2	2	2	2	2	2	2
SEND	4-5	5-6	6-7	WEST HALF	6-7	4-5	6-7	3-4	6-7	5-6
RECEIVE	—	—	—		0-10W	10-20	20-30W	—	30-40W	—
RANGE	2C	—	2B		2B	2C	2B	2C	2B	2C
VOLTAGE	380	310	710		680	380	680	400	700	310
CURRENT	2	2	2		2	2	2	2	2	2

FREQUENCIES	
SENDER No. 9662	POWER UNIT ID
OPERATOR HORBATT	B&S ENJ2
RECEIVER No. D.DAMP	HOURS RUN
OPERATOR ZELLER	1 1/N

COMMENTS:

I. P. SENDER NOTES

JOB No. 1545 AREA MESA B

LINE 1, HALF WEST, SP. 1, DATE 9-22-81

PAGE 3

HEINRICHS GEOEX

SEND	4-5	3-4	2-3	6-7	5-6	4-5	3-4	2-3	1-2	56
RECEIVE	30-40 W	—	—	40-50 W	—	—	—	—	—	50-60
RANGE	2C	—	—	2B	2C	—	—	—	—	—
VOLTAGE	370	400	470	690	305	375	400	465	470	305
CURRENT	2	2	2	2	2	2	2	2	2	2
SEND	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2	CAL	
RECEIVE	—	—	—	—	60-70 W	—	—	—	CAL	
RANGE	—	—	—	—	—	—	—	—		
VOLTAGE	370	400	465	470	370	400	465	470	245	
CURRENT	2	2	2	2	2	2	2	2	1	

FREQUENCIES

SENDER No. 9662	POWER UNIT ID
OPERATOR HORBATT	BGS ENJ2
RECEIVER No. D. DAMP	HOURS RUN
OPERATOR ZELLER	1

COMMENTS:

MESA B

Pg 1,2

]GOTO 41

VOLTAGE(MV)	CURRENT(A)	N
87.2	2	2
601	2	1
18.1	2	3
89	2	2
321	2	1
7.61	2	4
33.2	2	3
96.6	2	2
325	2	1
9.55	2	5
39.1	2	4
109.6	2	3
292	2	2
667	2	1
4.44	2	6
17.2	2	5

RESISTIVTY	PFE	MCF
523.2	.4	.764525994
901.5	.2	.221852468
271.5	.5	1.84162063
534	.4	.74906367
481.5	.2	.41536864
228.3	-.5	-2.19010075
498	.4	.803212851
579.6	.2	.345065563
487.5	0	0
501.375	.3	.598354525
1173	.7	.596760443
1644	.5	.304136253
1752	.3	.171232877
1000.5	.2	.19990005
372.96	.6	1.60875161
903	1	1.10741971

INPUT CORRECTIONS IF NEEDED THEN GOTO 41

]PR#0

Mesa B
Pg 3, 4

JFGPOTO 41

VOLTAGE(MV)	CURRENT(A)	N
43.7	2	4
107	2	3
219	2	2
505	2	1
12.8	2	6
27.9	2	5
61.7	2	4
121	2	3
212	2	2
10.9	2	6
21.8	2	5
38.2	2	4
60.7	2	3
95.6	2	2
603	2	1
7.76	2	4
236	2	1
6.24	2	5
14.8	2	4

RESISTIVTY	PFE	MCF
1311	.7	.533943554
1605	.6	.373831776
1314	.3	.228310502
757.5	.2	.264026403
1075.2	1.2	1.11607143
1464.75	.9	.614439324
1851	.8	.432198811
1815	.4	.220385675
1272	.4	.314465409
915.6	1	1.09217999
1144.5	1	.873743993
1146	.8	.698080279
910.5	.8	.878638111
573.6	.3	.523012553
904.5	.2	.221116639
232.8	0	0
354	.1	.282485876
327.6	0	0
444	.5	1.12612613

INPUT CORRECTIONS IF NEEDED THEN GOTO 41

```
]LIST

5  HOME
10  PRINT "I.P. DATA REDUCTION": PRINT

12  DIM V(60),C(60),N(60),PFE(60)
     ,S(60),N1(60),N2(60),MCF(60)
     ,V1(60),R(60),N3(60)
17  INPUT "A SPACING:";A
21  INPUT "NUMBER OF STATIONS:";S
     : PRINT
BREAK
]PR#0
```

Mesa B
Pg 5,6

```
]GOTO 41
```

VOLTAGE(MV)	CURRENT(A)	N
57.3	2	3
105	2	2
331	2	1
3.31	2	6
7.59	2	5
26.5	2	4
41.3	2	3
86.4	2	2
113	2	1
6.06	2	6
19.2	2	5
28.3	2	4
44.2	2	3
45	2	2
11.4	2	6
16.2	2	5
23.1	2	4
20.8	2	3

RESISTIVTY	PFE	MCF
859.5	.4	.465386853
630	.3	.476190476
496.5	.2	.402819738
278.04	.8	2.87728385
398.475	.4	1.00382709
795	.5	.628930818
619.5	.4	.645682002
518.4	.3	.578703704
169.5	.1	.589970502
509.04	.5	.982241082
1008	.5	.496031746
849	.5	.588928151
663	.4	.60331825
270	.3	1.11111111
957.6	.6	.626566416
850.5	.5	.587889477
693	.4	.577200577
312	.2	.641025641

WWE

I. P. RECEIVER NOTES, JOB No. 1545, AREA Mesa B

LINE 1, HALF E, SP. 2, a = 1000', BEARING N53°W

SENDER STA. 300'SW ELECTRODE No. 4, DATE 9/24/81

PAGE 1

HEINRICHS GEOEX

SEND	CAL	1-2	2-3	1-2	2-3	3-4	1-2	2-3	3-4	4-5
RECEIVE	CAL	60-50W	—	50-40W	—	—	40-30W	—	—	—
MULTIPLIER	1.0	1.0	1.0	1.0	1.0	10	1.0	1.0	1.0	10
PFE	-0.1	+0.3	+0.2	+0.3	+0.2	+0.2	+0.4	+0.2	+0.2	+0.1
CUR. (AMPS)	1	1.9	2	1.9	2	2	1.9	2	2	2
POINT No.										
SEP. (n)	—	2	1	3	2	1	4	3	2	1
H. F. MV	100	41.5	94.5	23.5	38.7	117	17.5	24.4	55.4	164
DRIFT	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										
3.0 MV $\rho/2\pi$		262	142	371	232	176	553	363	332	246
DRIFT MCF		1.1	1.4	0.81	0.86	1.1	0.72	0.55	0.60	0.41
S. P.		+24.7	—	-23	—	—	+24.0	—	—	—
NOISE	0	0	0	0	0	0	±1	0	0	0
POT RES.		16	—	23	—	—	26	—	—	—
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 1545, AREA Mesa B

LINE 1, HALF E, SP. 2, a = 1000', BEARING N 53° W

SENDER STA. 300' SW ELECTRODE No. 4, DATE 9/24/81

PAGE 2

HEINRICHS GEOEX

SEND	1-2	2-3	3-6	1-2	2-3	4-5	2-3	3-4	CAL	
RECEIVE	30-20W			20-10W			10-0W		CAL	
MULTIPLIER	0.1	0.1	10	0.1	1.0	1.0	0.1	1.0	1.0	
PFE	+0.4	+0.3(?)	0.0	+0.8	+0.7	+0.4	+0.3	+0.4	0	
CUR. (AMPS)	1.9	2	2	1.9	2	2	2	2	1	
POINT NO.										
SEP. (n)	5	4	1	6	5	3	6	5	—	
H. F. MV	8.37	10.4	1.3	10.7	12.8	44.8	8.81	15.7	100	
DRIFT	0	0	-1/2	0	0	0	0	0	0	
1.0 PFE $K_n/1000$										
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c										
3.0 MV $\rho/2\pi$	463	312	170	946	672	672	740	824		
DRIFT MCF	0.86	0.96	0	0.85	1.0	0.60	0.41	0.49		
S. P.	-13.8			+30.9			+9.8			
NOISE	±2	±1	0	±2	±1	0	±2	±2	0	
POT RES.	13			31			13			
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 1545, AREA Mesa B

LINE 1, HALF W, SP. 2, a = 1000', BEARING N53W

SENDER STA. 300'SW ELECTRODE No. 4, DATE 9/25/81

PAGE 3

HEINRICHS GEOEX

SEND	CAL	6-7	4-5	6-7	3-4	6-7	5-6	4-5	3-4	2-3
RECEIVE	CAL	60-70W	70-80W	80-90W	—	90-100W	—	—	—	—
MULTIPLIER	1.0	1.0	1.0	1.0	1.0	0.1	0.1	1.0	1.0	1.0
PFE	0	+0.2	+0.3	+0.4	+0.2	+0.4	+0.1	+0.3	+0.2	+0.2
CUR. (AMPS)	1	2	2	2	2	2	2	2	2	2
POINT No.										
SEP. (n)		2	1	4	1	5	4	3	2	1
H. F. MV	99.6	55.3	98.8	18.3	110	7.58	9.33	14.9	28.7	89.7
DRIFT	-1/2	-1/2	0	0	-1/2	0	0	0	0	0
1.0 PFE $K_n/1000$										
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c										
3.0 MV $\rho/2\pi$		332	148	549	165	398	280	224	172	135
DRIFT MCF		0.60	2.0	0.73	1.2	10	0.36	1.3	1.2	1.5
S. P.	—	-6.5	+15.1	-13.9	—	+45.6	—	—	—	—
NOISE	0	0	0	0	0	±1	±1	0	0	0
POT RES.	—	7	15	15	—	47	—	—	—	—
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 1545, AREA MESA B

LINE 1, HALF W, SP. 2, a = 1000', BEARING N53°W

SENDER STA. 300'SW ELECTRODE No. 4, DATE 9/25/81

PAGE 4

HEINRICHS GEOEX

SEND	6-7	5-6	4-5	3-4	2-3	1-2	5-6	4-5	3-4	2-3
RECEIVE	100-110W						110-120W			
MULTIPLIER	0.1	0.1	0.1	1.0	1.0	10	0.1	0.1	0.1	1.0
PFE	+0.3	+0.5	+0.4	+0.7	+0.4	+1.4	+1.8	+1.0	+0.4	+0.2
CUR. (AMPS)	2	2	2	2	2	1.9	2	2	2	2
POINT No.										
SEP. (n)	6	5	4	3	2	1	6	5	4	3
H. F. MV	6.09	7.03	10.5	18.1	43.4	313	4.86	6.64	10.1	20.6
DRIFT	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										
3.0 MV $\rho/2\pi$	512	369	315	272	260	494	408	349	303	309
DRIFT MCF	0.59	1.4	1.3	2.6	1.5	2.8	4.4	2.9	1.3	0.65
S. P.	28.5						+28.7			
NOISE	±2	±2	0	±1	0	0	±3	±2	±1	0
POT RES.	28						29			
CULT & CMTS	sand	stone	shelf							

I. P. RECEIVER NOTES, JOB No. 1545 AREA Mesa B

LINE 1, HALF W, SP. 2, a = 1000', BEARING N53°W

SENDER STA. 300'SW ELECTRODE No. 4, DATE 9/25/81

PAGE 5

HEINRICHS GEOEX

SEND	1-2	4-5	3-4	2-3	1-2	CAL					
RECEIVE		120-130W				CAL					
MULTIPLIER	1.0	0.1	0.1	0.1	1.0	1.0					
PFE	+0.6	+0.4	+0.7	+0.8	+0.4	0					
CUR. (AMPS)	1.9	2	2	2	1.9	1					
POINT No.											
SEP. (n)	2	6	5	4	3	—					
H. F. MV	49.1	2.94	4.20	8.14	15.9	100					
DRIFT	0	0	0	0	0	0					
1.0 PFE K_n/1000											
0.3 PFE ρ_{CAL}											
0.1 PFE PFE_c											
3.0 MV $\rho/2\pi$	310	246	221	241	251						
DRIFT MCF	1.9	1.6	3.2	3.3	1.6						
S. P.		-23.0									
NOISE	0	±5	±3	±1	±1	0					
POT RES.		22.5									
CULT & CMTS											

I. P. SENDER NOTES

JOB No. 1545 AREA MESA B

LINE 1, HALF EAST, SP. 2, DATE 9-24-81

PAGE 1

HEINRICHS GEOEX

SEND	CAL	1-2	2-3	1-2	2-3	3-4	1-2	2-3	3-4	4-5
RECEIVE	CAL	60-50	W —	50-40	W —	—	40-30	W —	—	—
RANGE	2B —	—	—	—	—	—	—	—	—	—
VOLTAGE	250	730	490	730	490	470	730	490	470	540
CURRENT	1	1.9	2	1.9	2	2	1.9	2	2	2
SEND	1-2	2-3	5-6	1-2	2-3	4-5	2-3	3-4	CAL	
RECEIVE	30-20	W —	—	20-10	W —	—	10-0	W —	CAL	
RANGE	2B —	—	—	—	—	—	—	—		
VOLTAGE	730	490	570	720	490	540	480	470	240	
CURRENT	1.9	2	2	1.9	2	2	2	2	1	

FREQUENCIES

SENDER No. 96625 POWER UNIT ID

OPERATOR HORBATT BGS ENJ2

RECEIVER No. D. DAMP HOURS RUN

OPERATOR ZELLER n

COMMENTS:

I. P. SENDER NOTES

JOB No. 1545 AREA Mesa B

LINE 1, HALF W, SP. 2, DATE 9/25/81

PAGE 2

HEINRICHS GEOEX

SEND	Cal	6-7 W	4-5	6-7	3-4	6-7	5-6	4-5	3-4	2-3
RECEIVE	Cal	60-70W	70-80W	80-90W	—	90-100W	—	—	—	—
RANGE	Low	—	—	—	—	—	—	—	—	—
VOLTAGE	265	465	565	465	510	460	580	560	.500	510
CURRENT	1	2	2	2	2	2	2	2	2	2
SEND	6-7	5-6	4-5	3-4	2-3	1-2	5-6	4-5	3-4	2-3
RECEIVE	100-110W	—	—	—	—	—	110-120W	—	—	—
RANGE	—	—	—	—	—	—	—	—	—	—
VOLTAGE	460	580	560	500	510	740	580	560	495	510
CURRENT	2	2	2	2	2	1.9	2	2	2	2

FREQUENCIES 1.0 - 0.1

SENDER No. 96625

OPERATOR Wahl

RECEIVER No. W. Dana

OPERATOR Zellen

POWER UNIT ID: B45 EJN2

HOURS RUN: 2

COMMENTS:

I. P. SENDER NOTES

JOB No. 1545 AREA Mosc. B

LINE 1, HALF W, SP. R, DATE 9/25/81

PAGE 3

HEINRICHS GEOEX

SEND	1-2	4-5	3-4	2-3	1-2	3-4 Cal				
RECEIVE		120-130 W				Cal				
RANGE										
VOLTAGE	740	560	490	505	740	250				
CURRENT	1.9	2	2	2	1.9	1				
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES	10-0.1
SENDER No.	96625
OPERATOR	Watt
RECEIVER No.	D. Pump
OPERATOR	Zeller

POWER UNIT ID
BVS EJ N2
HOURS RUN
.5

COMMENTS:

Mesa B
Sp 2
Pg 1,2

JGOTO 41

VOLTAGE(MV)	CURRENT(A)	N
41.5	1.9	2
94.5	2	1
23.5	1.9	3
38.7	2	2
117	2	1
17.5	1.9	4
24.2	2	3
55.4	2	2
164	2	1
8.37	1.9	5
10.4	2	4
113	2	1
10.7	1.9	6
12.8	2	5
44.8	2	3
8.81	2	6
15.7	2	5

RESISTIVTY	PFE	MCF
262.105263	.3	1.14457831
141.75	.2	1.41093474
371.052632	.3	.808510638
232.2	.2	.861326443
175.5	.2	1.13960114
552.631579	.4	.723809524
363	.2	.550964187
332.4	.2	.601684717
246	.1	.406504065
462.552632	.4	.864766456
312	.3	.961538462
169.5	0	0
946.105263	.8	.845571874
672	.7	1.04166667
672	.4	.595238095
740.04	.3	.405383493
824.25	.4	.485289657

INPUT CORRECTIONS IF NEEDED THEN GOTO 41

```
]LIST

5  HOME
10  PRINT "I.P. DATA REDUCTION": PRINT

12  DIM V(60),C(60),N(60),PFE(60)
     ,S(60),N1(60),N2(60),MCF(60)
     ,V1(60),R(60),N3(60)
BREAK
]PR#0
]GPTO OTO 160
```

RESISTIVTY	PFE	MCF
331.8	.2	.602772755
148.2	.3	2.0242915
549	.4	.72859745
165	.2	1.21212121
397.95	.4	1.0051514
279.9	.1	.357270454
223.5	.3	1.34228188
172.2	.2	1.16144019
134.55	.2	1.48643627
511.56	.3	.586441473
369.075	.5	1.3547382
315	.4	1.26984127
271.5	.7	2.57826888
259.8	.4	1.53964588
494.210526	1.4	2.83280085
408.24	1.8	4.40917108
348.6	1	2.86861733
303	.4	1.32013201
309	.2	.647249191
310.105263	.6	1.93482689
246.96	.4	1.6196955
220.5	.7	3.17460318
244.2	.8	3.27600328
251.052632	.4	1.5932914

INPUT CORRECTIONS IF NEEDED THEN GOTO 41

MFSP B

Sp. 2

Pg 3, 4, 5

I. P. RECEIVER NOTES, JOB No. 1545, AREA Mesa A

LINE 1, HALF N, SP. 1, a = 1000, BEARING S15°E

SENDER STA. 20S = ELECTRODE No. 2, DATE 9/17/81

PAGE 1

HEINRICHS GEOEX

SEND	CAL	1-2	2-3	1-2	2-3	3-4	1-2	2-3	3-4	4-5
RECEIVE	CAL	0-10 N		10-20N			20-30N			
MULTIPLIER	1.0	1.0	10	1.0	1.0	10	0.1	1.0	1.0	10.0
PFE	0 0	+0.8 +0.6	+0.6	+0.9	+0.9	+0.6	+0.5	+1.1	+0.9	+0.7
CUR. (AMPS)	1	0.5	0.55	0.5	0.55	0.75	0.5	0.55	.75	1.4
POINT No.										
SEP. (n)		2	1	3	2	1	4	3	2	1
H. F. MV	S 98.5 96.10	32.7	200	13.4	61.1	217	8.26	34.1	93.8	715
DRIFT	0 1	+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										
3.0 MV $\rho/2\pi$		785	1091	804	1333	868	991	1860	1501	1532
DRIFT MCF		1.07	0.55	1.1	0.68	0.69	0.50	0.59	0.60	0.46
S. P.		-11.0		+22.2			+16.6			
NOISE	0	0	0	0	0	0	±1	0	0	0
POT RES.		12		19			16			
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 1545, AREA Mesa A

LINE 1, HALF N, SP. 1, a = 1000', BEARING S15°E

SENDER STA. 20S = ELECTRODE No. 2, DATE 9/17/81

PAGE 2

HEINRICHS GEOEX

SEND	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5	5-6
RECEIVE	30-40N					40-50				
MULTIPLIER	0.1	1.0	1.0	10	10	0.1	0.1	1.0	1.0	10
PFE	+1.1	+1.1	+1.0	+0.7	+0.7	+1.3	+0.9	+1.1	+1.0	+0.9
CUR. (AMPS)	0.5	0.55	.75	1.4	1.5	0.5	0.55	0.75	1.4	1.5
POINT NO.										
SEP. (n)	5	4	3	2	1	6	5	4	3	2
H. F. MV	4.11	15.2	36.0	168	686	2.36	8.19	17.8	71.2	194
DRIFT	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										
3.0 MV $\rho/2\pi$	863	1658	1440	1440	1372	793	1562	1424	1525	1552
DRIFT MCF	1.3	0.66	0.70	0.49	0.51	1.6	0.58	0.77	0.66	0.58
S. P.	-25.5					-2.9				
NOISE	±2	0	0	0	0	±2	0	±1	0	0
POT RES.	24					3				
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 1545, AREA Mesa A

LINE 1, HALF N, SP. 1, a = 1000', BEARING S15°E

SENDER STA. 205 = ELECTRODE No. 2, DATE 9/17/81

PAGE 3

HEINRICHS GEOEX

SEND	6-7	2-3	3-4	4-5	5-6	6-7	3-4	4-5	5-6	6-7
RECEIVE		50-60N					60-70			
MULTIPLIER	10	0.1	0.1	1.0	1.0	10	0.1	1.0	1.0	1.0
PFE	+0.8	+1.3	+1.1	+1.1	+0.9	+0.9	+1.2	+1.3	+1.2	+0.9
CUR. (AMPS)	1	0.55	0.75	1.4	1.5	1.0	.75	1.4	1.5	1.0
POINT NO.										
SEP. (n)	1	6	5	4	3	2	6	5	4	3
H. F. MV	80.4	3.63	6.87	24.8	55.7	119	4.01	12.6	24.3	38.4
DRIFT	0	0	0	0	0	0	0	+1	0	0
1.0 PFE $K_n/1000$										
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c										
3.0 MV $\rho/2\pi$	2412	1109	962	1063	1114	1428	898	945	972	1152
DRIFT MCF	0.33	1.2	1.1	1.0	0.8	0.63	1.3	1.4	1.2	0.78
S. P.		+8.0					-14.5			
NOISE	0	±1	±1	0	0	0	±1	0	±1	0
POT RES.		10					13			
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 1545, AREA Mesa A

LINE 1, HALF S, SP. 1, a = 1000, BEARING S/5E

SENDER STA. 205 = ELECTRODE No. 2, DATE 9/17/81

PAGE 4

HEINRICHS GEOEX

SEND	6-7	4-5	6-7	3-4	CAL		CAL	6-7	6-7	5-6
RECEIVE	0-10S	10-20S	20-30S	—	CAL		CAL	20-30S	30-40S	→
MULTIPLIER	10	10	1.0	10	1.0		1.0	1.0	0.1	1.0
PFE	+0.8	+0.6	-2.5	+0.4	0		0 0	+1.3 +1.3	+0.9 +0.7	+1.1
CUR. (AMPS)	1	1.4	1	.75	1		1	1	1	1.5
POINT NO.										
SEP. (n)	2	1	4	1				4	5	4
H. F. MV	124	495	15.6	151	99.6		99.6 99.8	17.9 17.3	92.9 93.4	20.7
DRIFT	0	0	0	0	0		0 -1	0 0	0 0	0
1.0 PFE $K_n/1000$										
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c										
3.0 MV $\rho/2\pi$	1488	1061	936	664				1074	975	828
DRIFT MCF	0.54	0.57	2.7	0.66				1.2	0.92	1.3
S. P.	-11.1	+32.9	-10	—				+1.5	+15.5	—
NOISE	0	0	±1	0	0		0	0 0	±1	0
POT RES.	11.5	34.5	10	—				4	16	—
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 1545, AREA Mesa A

LINE 1, HALF S, SP. 1, a = 1000', BEARING S15°E

SENDER STA. 205 = ELECTRODE No. 2, DATE 9/18/81

PAGE 5

HEINRICHS GEOEX

SEND	4-5	3-4	2-3	6-7	5-6	4-5	3-4	2-3	1-2	5-6
RECEIVE				40-50S						50-60S
MULTIPLIER	1.0	1.0	10	0.1	1.0	1.0	1.0	1.0	10	1.0
PFE	+1.0	+0.8	+0.8	+0.9	+1.3	+1.1	+1.0	+1.0	+0.3	+1.8
CUR. (AMPS)	1.4	0.75	0.55	1	1.5	1.4	0.75	0.55	0.5	1.5
POINT No.										
SEP. (n)	3	2	1	6	5	4	3	2	1	6
H. F. MV	42.2	54.7	398	5.35	11.3	21.1	24.0	85.1	188	15.3
DRIFT	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										
3.0 MV / $\rho/2\pi$	904	875	2171	899	791	904	960	1857	1128	1714
DRIFT / MCF	1.1	0.91	0.37	1.0	1.6	1.2	1.0	0.54	0.27	1.1
S. P.				-20.6						+33.4
NOISE	0	0	0	±3	0	0	±1	0	0	±1
POT RES.				22						36
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 1545, AREA Mesa A

LINE 1, HALF 5, SP. 1, a = 1000', BEARING S15°E

SENDER STA. 205 = ELECTRODE No. 2, DATE 9/14/81

PAGE 6

HEINRICHS GEOEX

SEND	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2	CAL	
RECEIVE					60-70S				CAL	
MULTIPLIER	1.0	1.0	1.0	1.0	0.1	0.1	1.0		1.0	
PFE	+1.9	+1.7	+1.8	+0.9	+1.2	+1.2	+1.5	+0.8	0	
CUR. (AMPS)	1.4	0.75	0.55	0.5	1.4	0.75	0.55	0.5	1	
POINT No.										
SEP. (n)	5	4	3	2	6	5	4	3		
H. F. MV	25.8	26.0	74.5	86.3	6.10 6.15	5.49	12.9	12.8	99.6	
DRIFT	0	0	0	0	0	0	0	±1		
1.0 PFE $K_n/1000$										
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c										
3.0 MV $\rho/2\pi$	1935	2080	4064	2071	732	769	1407	768		
DRIFT MCF	0.98	0.82	0.44	0.43	1.6	1.6	1.1	1.0		
S. P.					-16.5					
NOISE	0	±1	0	0	±2	±2	0	0	0	
POT RES.					17					
CULT & CMTS										

]

Mesa A

Pg 5,6

]GOTO 41

VOLTAGE(MV)	CURRENT(A)	N
42.2	1.4	3
54.7	.75	2
398	.55	1
5.35	1	6
11.3	1.5	5
21.1	1.4	4
24	.75	3
85.1	.55	2
188	.5	1
15.3	1.5	6
25.8	1.4	5
26	.75	4
74.5	.55	3
86.3	.5	2
6.1	1.4	6
5.49	.75	5
12.9	.55	4
12.8	.5	3

RESISTIVTY	PFE	MCF
904.285715	1	1.10584518
875.2	.8	.914076783
2170.90909	.8	.368509213
898.8	.9	1.00133511
791	1.3	1.64348925
904.285714	1.1	1.2164297
960	1	1.04166667
1856.72727	1	.53858206
1128	.3	.265957447
1713.6	1.8	1.05042017
1935	1.9	.981912145
2080	1.7	.817307692
4063.63637	1.8	.44295302
2071.2	.9	.434530707
732	1.2	1.63934426
768.6	1.2	1.56128025
1407.27273	1.5	1.06589147
768	.8	1.04166667

Mesa A

Pg 3,4

JGOTO 41

VOLTAGE(MV)	CURRENT(A)	N
804	1	1
3.63	.55	6
6.87	.75	5
24.8	1.4	4
55.7	1.5	3
119	1	2
4.01	.75	6
12.6	1.4	5
24.3	1.5	4
38.4	1	3
124	1	2
495	1.4	1
15.6	1	4
151	.75	1
17.9	1	4
9.29	1	5
20.7	1.5	4

RESISTIVTY	PFE	MCF
2412	.8	.331674959
1108.8	1.3	1.17243867
961.8	1.1	1.14368892
1062.85714	1.1	1.03494624
1114	.9	.807899461
1428	.9	.630252101
898.24	1.2	1.33594585
945	1.3	1.37566138
972	1.2	1.2345679
1152	.9	.78125
1488	.8	.537634409
1060.71429	.6	.565656566
936	2.5	2.67094017
604	.4	.662251656
1074	1.3	1.21042831
975.45	.9	.922651084
828	1.1	1.32850242

INPUT CORRECTIONS IF NEEDED THEN GOTO 41

HEINRICHS GEOEXPLORATION COMPANY

806 W. GRANT RD., P.O. BOX 5964 TUCSON, ARIZ. 85703. PH: (602) 623-0578

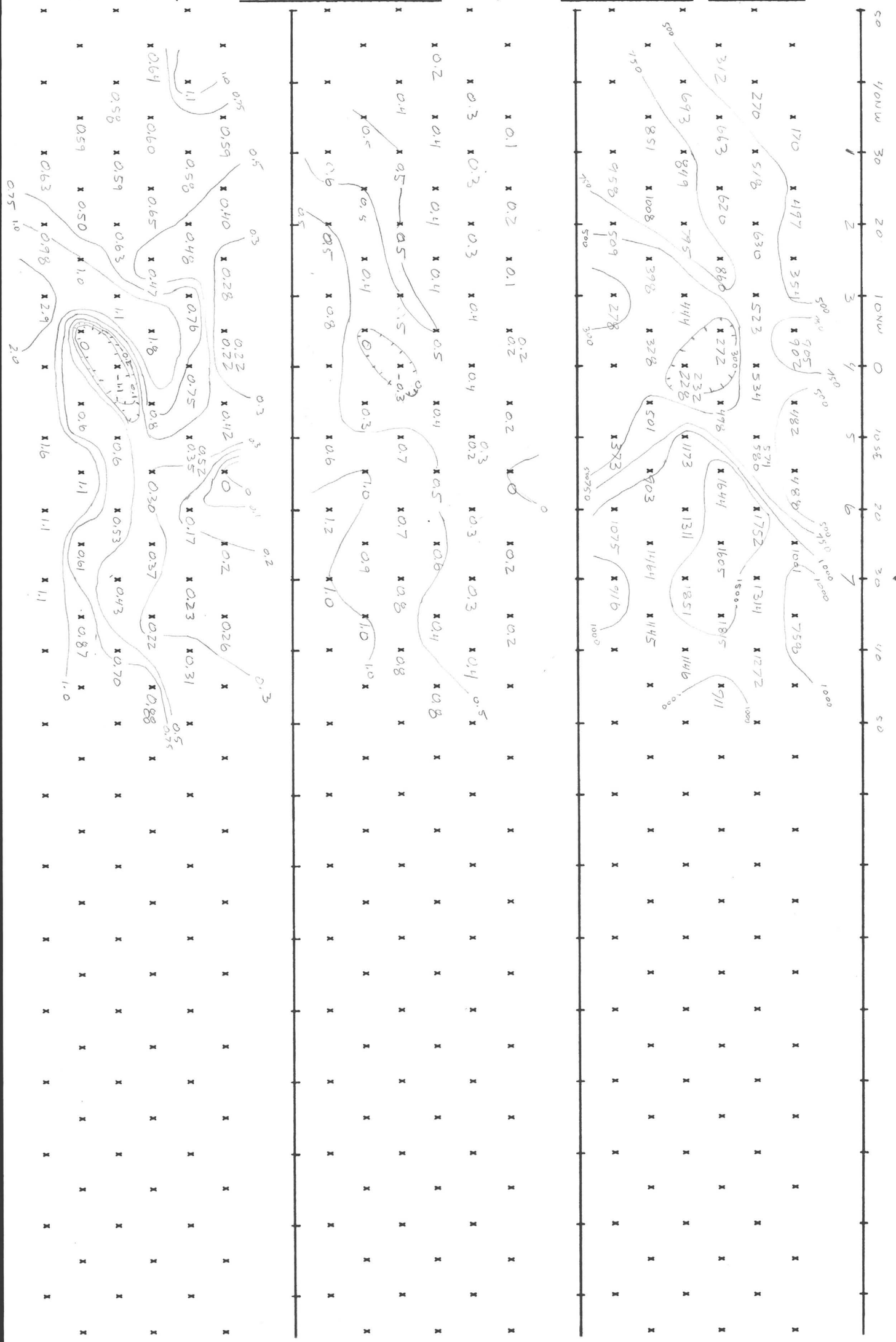
JOB # 15415 CLIENT T I

DATE 9-24-81 AREA Mesa B

LINE# 4 SP 1 a= 1000 BEARING S53E

RESISTIVITY FREQUENCIES 3.0

FREQUENCIES 3.0 & 0.3 Hz



HEINRICHS GEOEXPLORATION COMPANY

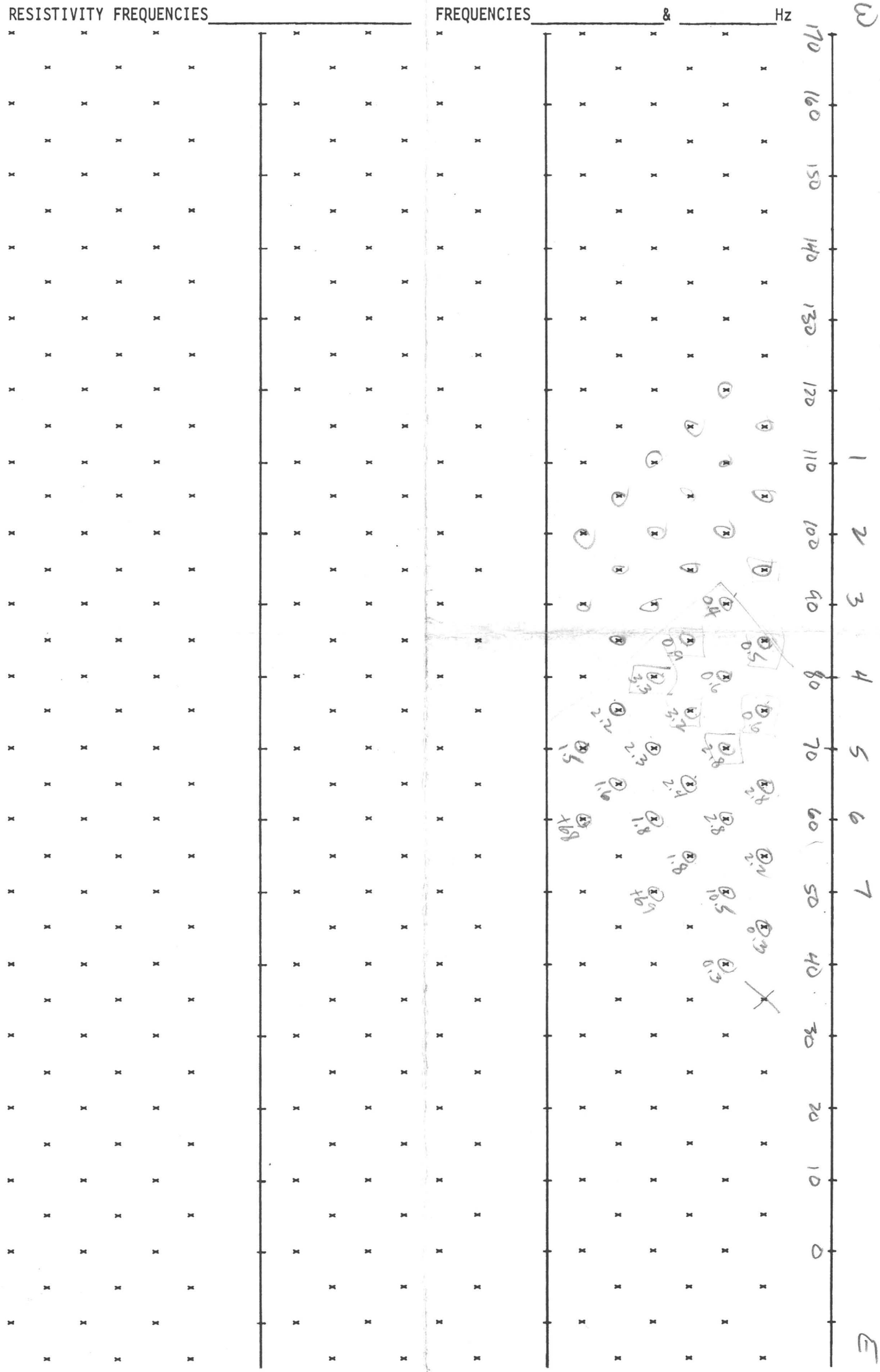
806 W. GRANT RD., P.O. BOX 5964 TUCSON, ARIZ. 85703. PH: (602) 623-0578

JOB # 1545 CLIENT GSI - T1

DATE 10/1/81 AREA Mesa B

LINE# 2 SP 2 a= 1000' BEARING N66°E

RESISTIVITY FREQUENCIES _____ FREQUENCIES _____ & _____ Hz



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BOX 5964
TUCSON, AZ. 85703

HEINRICHS GEOEXPLORATION COMPANY

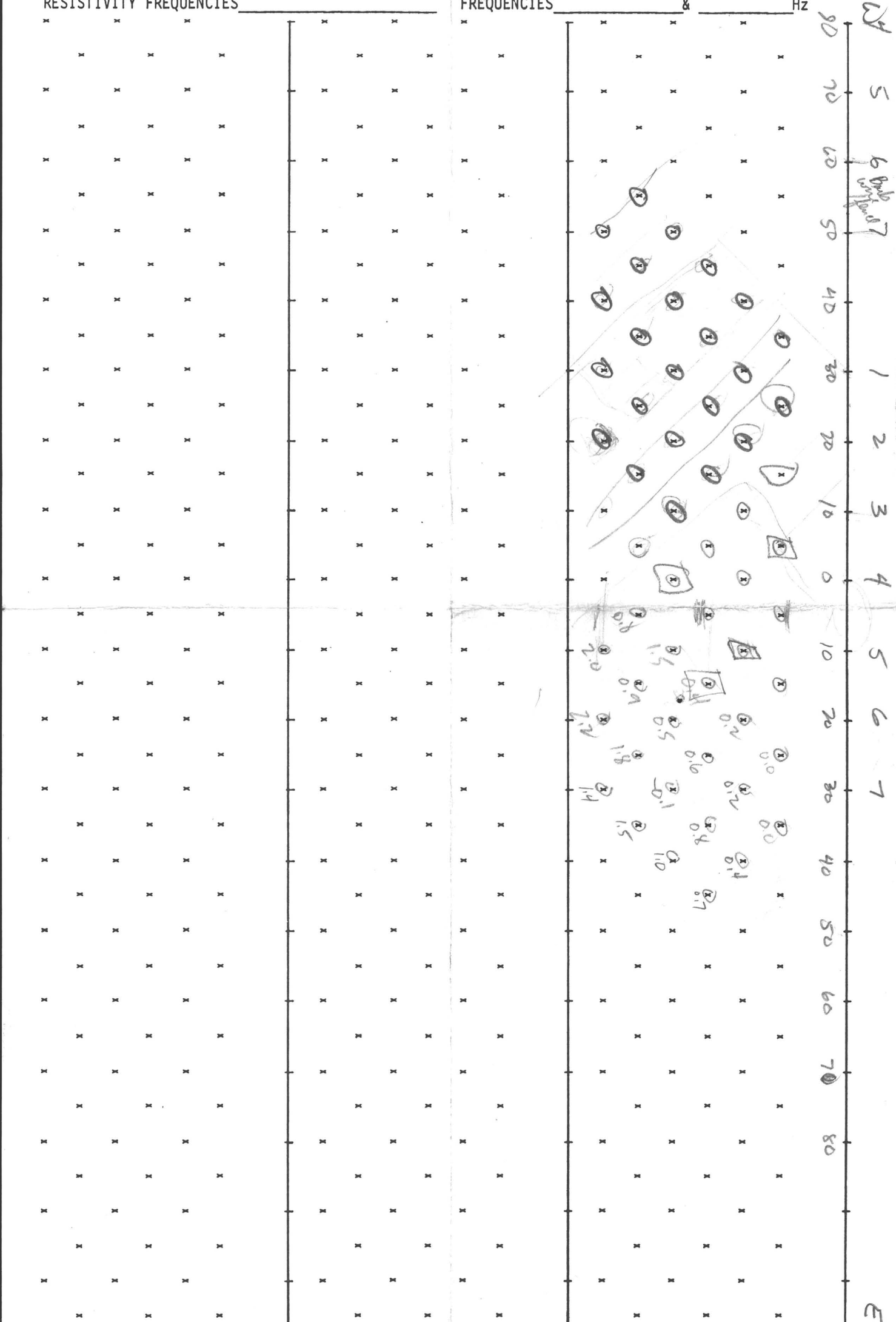
806 W. GRANT RD., P.O. BOX 5964 TUCSON, ARIZ. 85703. PH: (602) 623-0578

JOB # 1545 CLIENT GSI TI

DATE 9/28/81 AREA Mesa B

LINE# 2 SP 1 a= 1000 BEARING N66°E

RESISTIVITY FREQUENCIES _____ FREQUENCIES _____ & _____ Hz



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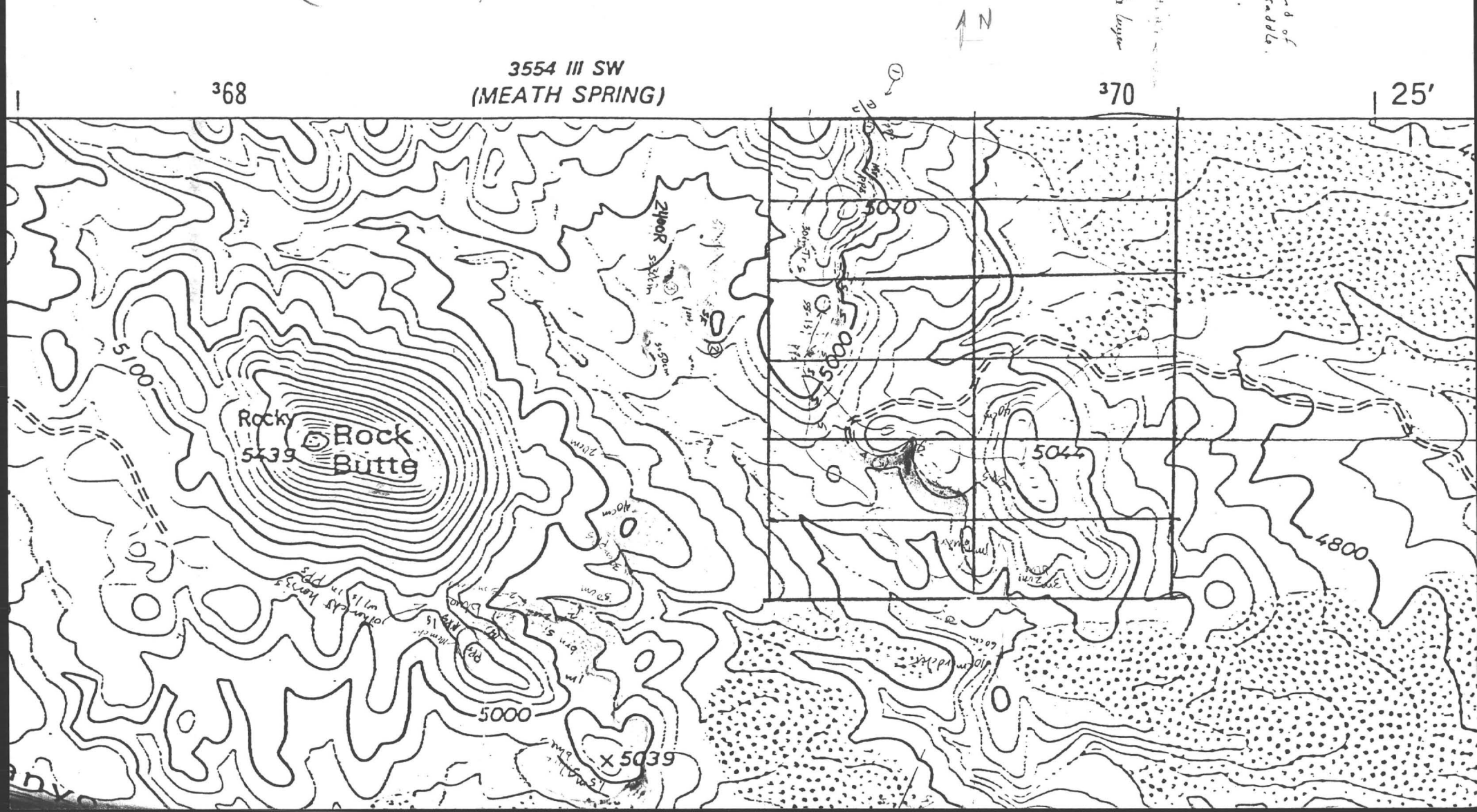
TUCSON, AZ 85703

MESA - B

(Contour interval = 20')



HEINRICHS GEOEXPLORATION COMPANY

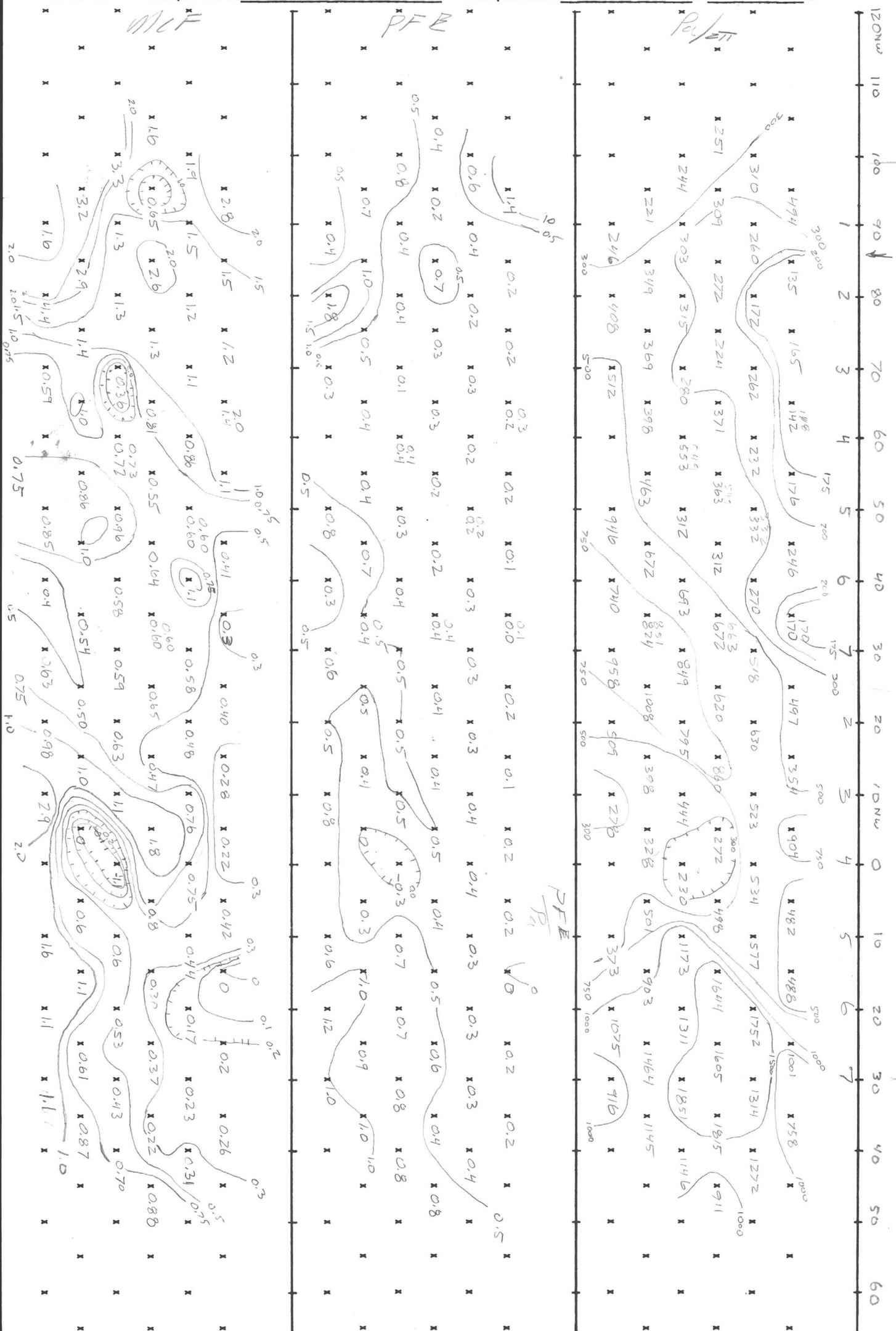
806 W. GRANT RD., P.O. BOX 5964 TUCSON, ARIZ. 85703. PH: (602) 623-0578

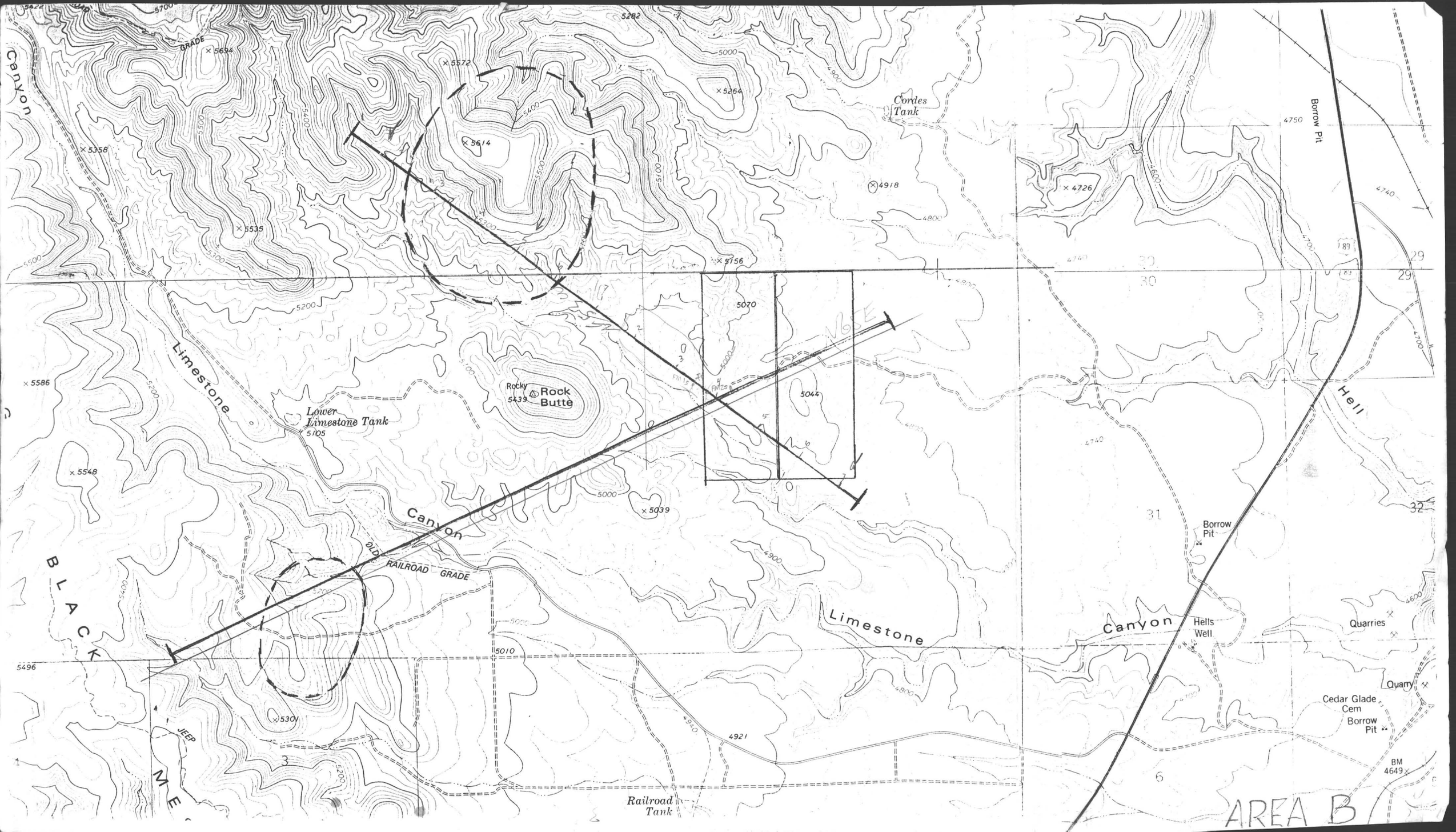
JOB # 1545 CLIENT TI

DATE 9-28-81 AREA MESA B

LINE# 1 SP 1,2 a= 1000 BEARING S53°E

RESISTIVITY FREQUENCIES 3.0 + 1.0 FREQUENCIES 3.0 +1.0 & 0.3 +0.1 Hz

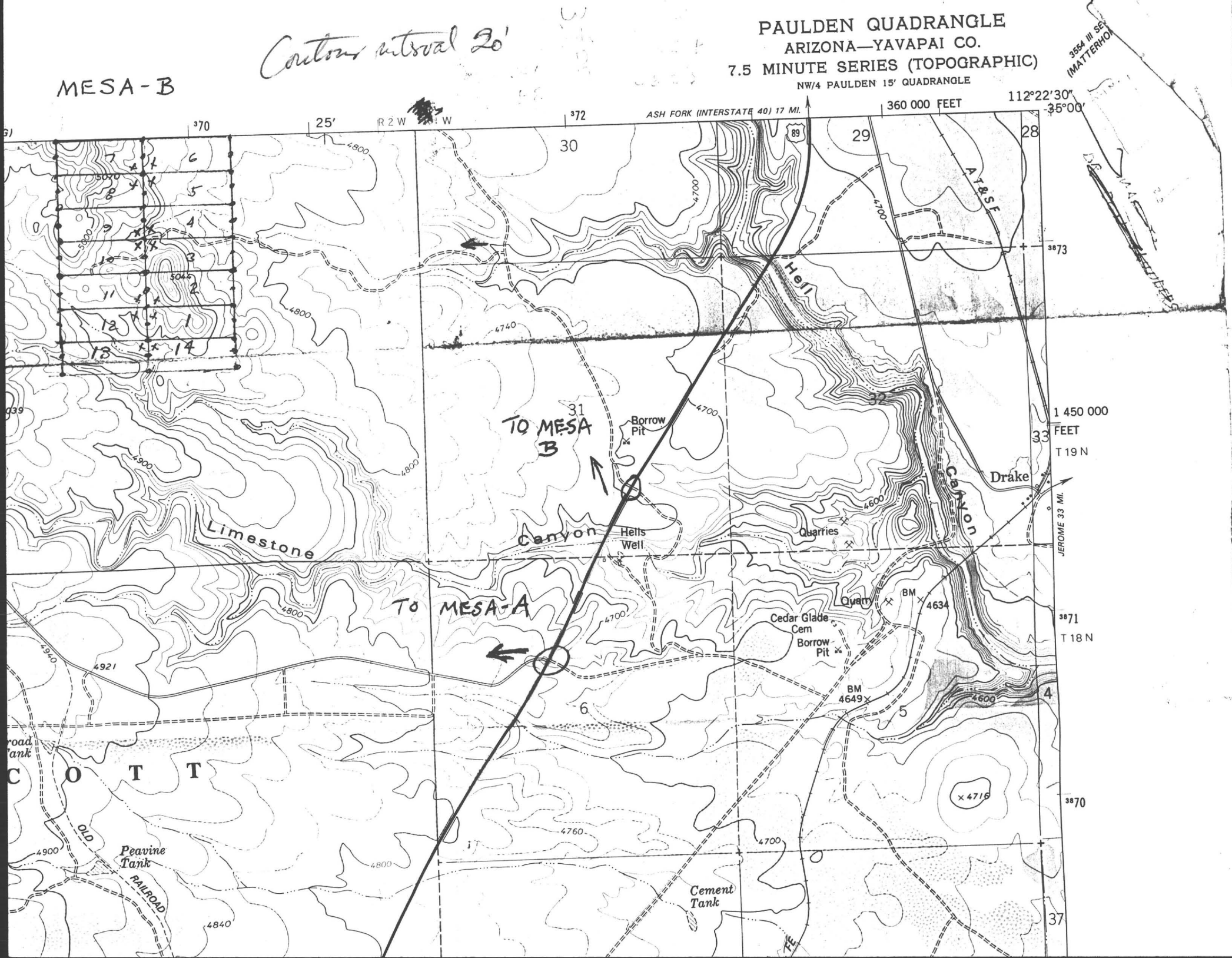



Canyon
GRADE
5694
5572
5282
5264
Cordes Tank
5358
5614
4918
4726
Borrow Pit
5535
5156
5070
5044
Limestone
Rocky
5439
Rock Butte
Lower Limestone Tank
5105
5586
5548
5039
Canyon
OLD RAILROAD GRADE
BLACK
Limestone
Canyon
Hells Well
Borrow Pit
Hell
Quarries
Quarry
Cedar Glade Cem
Borrow Pit
BM 4649
5496
5010
5301
JEEP
4921
Railroad Tank
AREA B

Contour interval 20'

MESA-B

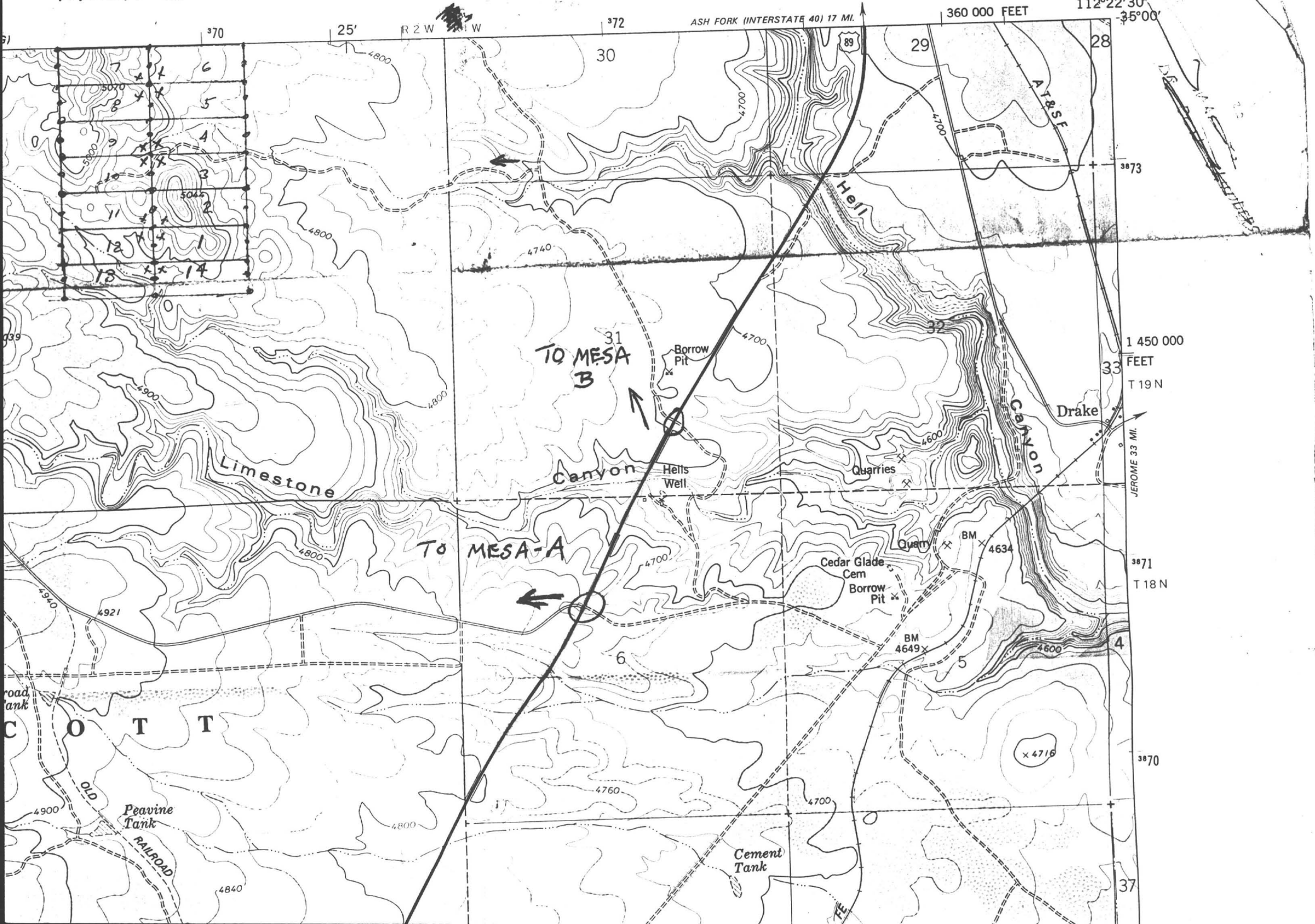
PAULDEN QUADRANGLE
ARIZONA—YAVAPAI CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
NW/4 PAULDEN 15' QUADRANGLE



Contour interval 20'

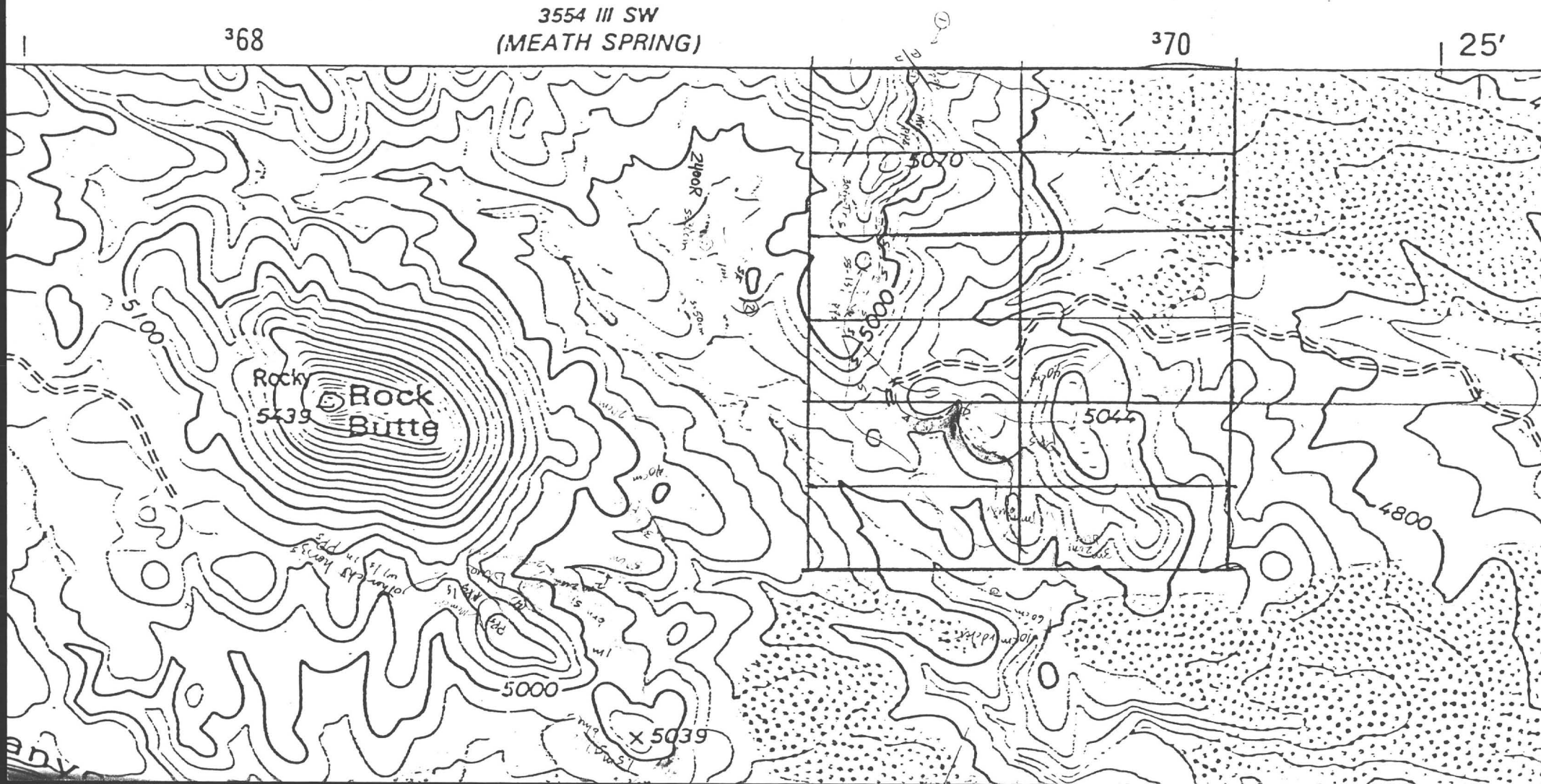
MESA-B

PAULDEN QUADRANGLE
ARIZONA—YAVAPAI CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
NW/4 PAULDEN 15' QUADRANGLE



MESA - B

(Contour interval 20')



HEINRICHS GEOEXPLORATION COMPANY

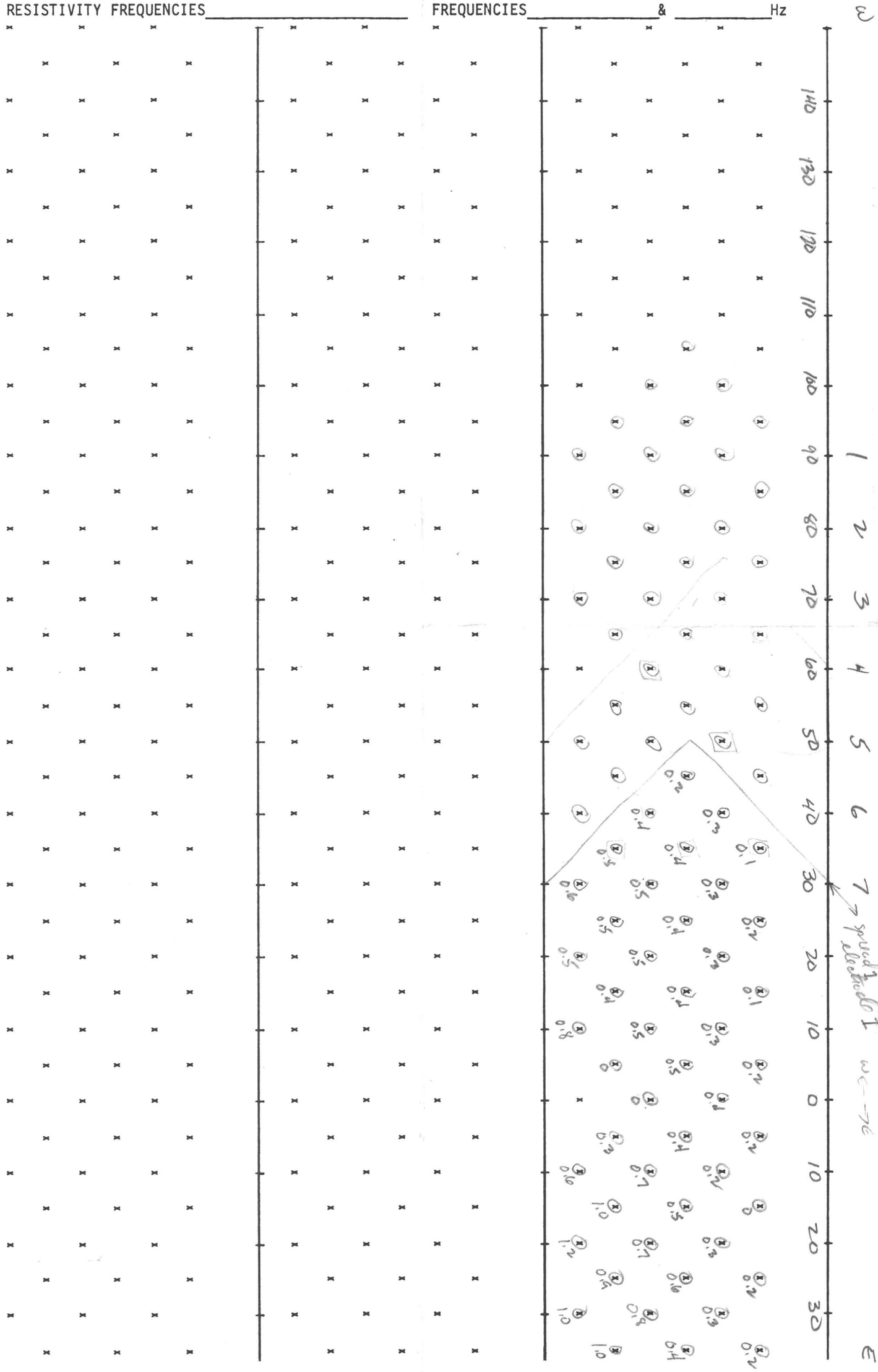
806 W. GRANT RD., P.O. BOX 5964 TUCSON, ARIZ. 85703. PH: (602) 623-0578

JOB # 1545 CLIENT 681 - T1

DATE 9/23/81 AREA Moon B

LINE# 1 SP 2 a= 1000' BEARING N53°W

RESISTIVITY FREQUENCIES _____ FREQUENCIES _____ & _____ Hz



HEINRICHS GEOEXPLORATION COMPANY

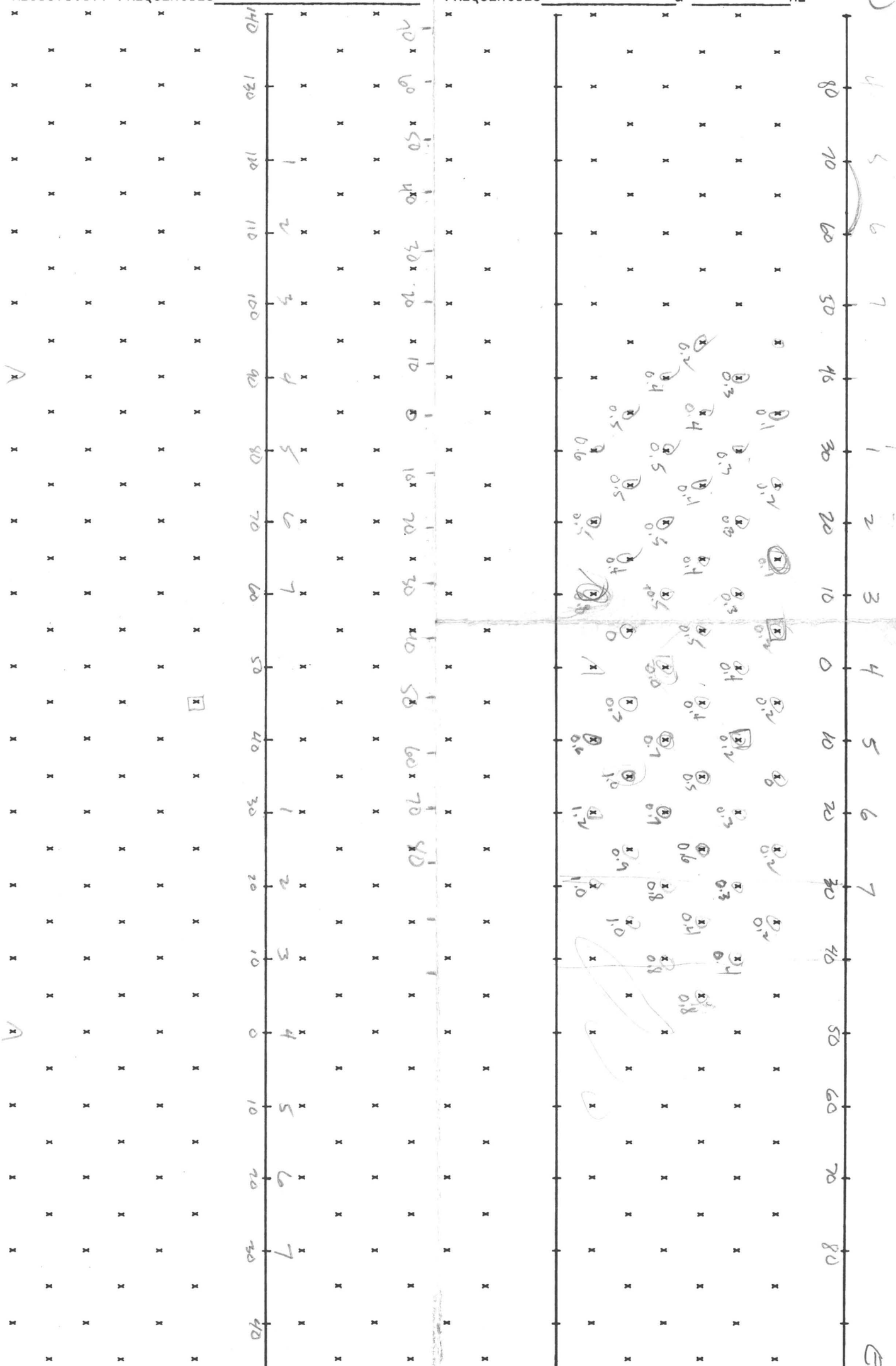
806 W. GRANT RD., P.O. BOX 5964 TUCSON, ARIZ. 85703. PH: (602) 623-0578

JOB # 1545 CLIENT GSI-TI

DATE 9/21/81 AREA Mesa B

LINE# 1 SP 1 a= 1000' BEARING N53W

RESISTIVITY FREQUENCIES _____ FREQUENCIES _____ & _____ Hz



I. P. SENDER NOTES

PAGE _____

HEINRICHS GEOEX

JOB NO. _____ AREA _____

LINE _____, HALF _____, SP. _____, DATE _____

SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES		COMMENTS:
SENDER NO.	POWER UNIT ID	
OPERATOR		
RECEIVER NO.	HOURS RUN	
OPERATOR		

0-10
Limestone
&
silicon
nubble
&
cherty
limestone

10-20
grey
limestone
with
Jasper
Inclusions.

red &
grey
limestone
interbedded,

20-30
~~red~~
~~&~~
~~grey~~
~~limestone~~
in
Alluvial
fill

30-40
alluvial
fill

40-50 - 50-60
Grey
Limestone
outcrop
with
Alluvial
Fill

A.F.

60-70
E →

A.F.

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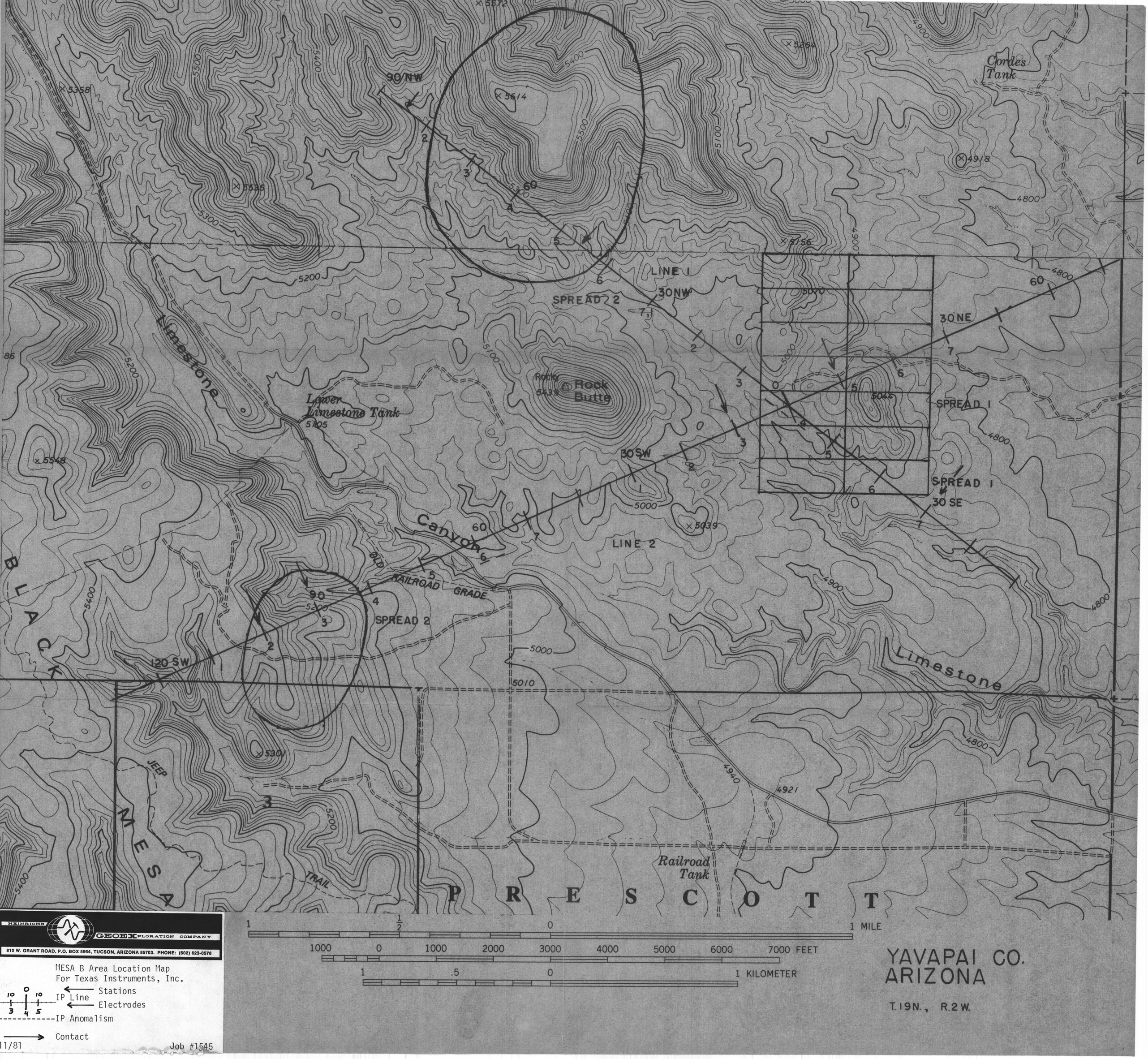
TUCSON, AZ. 85703



HEINRICHS GEOEXPLORATION COMPANY

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

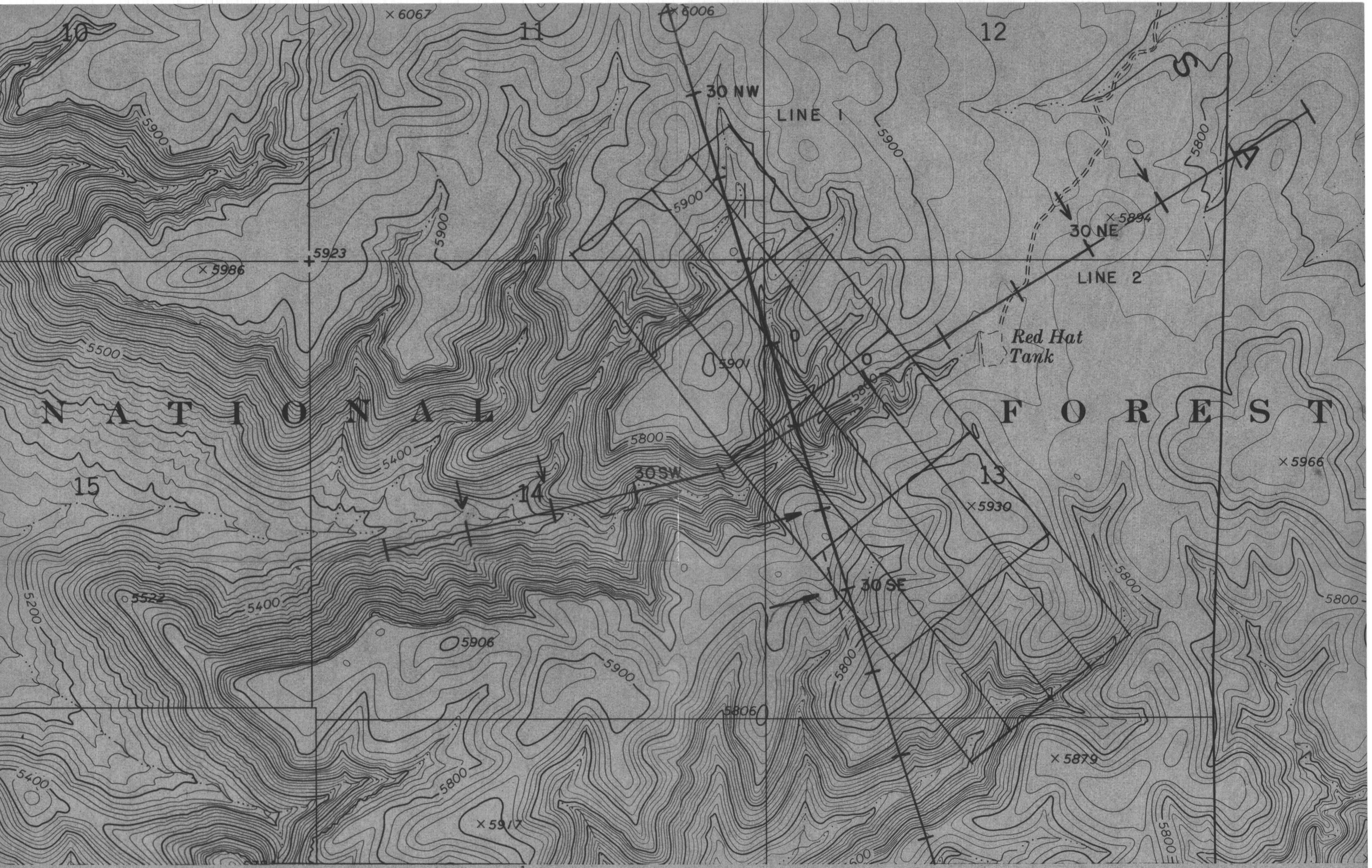
MESA B Area Location Map
For Texas Instruments, Inc.

IP Line — Stations (10 0 10) — Electrodes (3 4 5)

IP Anomalism

Contact

11/81 Job #1545



1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

YAVAPAI CO. ARIZONA

T.19N., R.3W.

HEINRICHS GEOEXPLORATION COMPANY

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

MESA A Area Location Map
For
Texas Instruments, Inc.

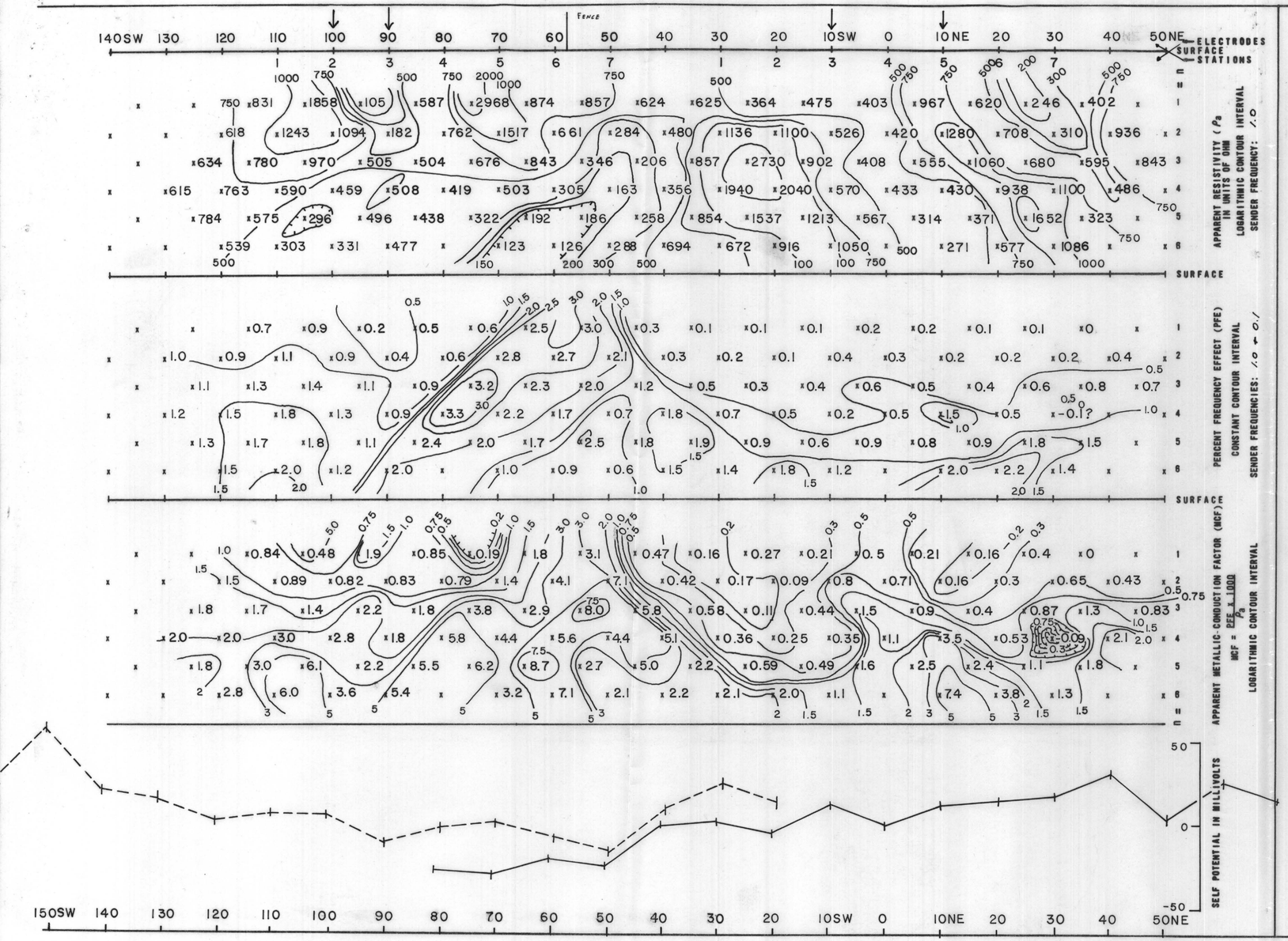
IP Line & Stations

IP Anomalism

Contact

11/81

Job #1545



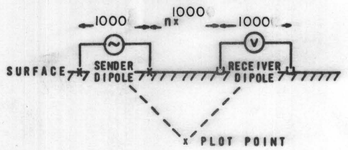
LINE NO.
2
SPREAD(S)
1, 2
BEARING
N 66° E

INDUCED POLARIZATION TRAVERSE SECTIONAL DATA SHEET of MESA B FOR TEXAS INSTRUMENTS INC.

RELATIVE ANOMALY STRENGTH

VERY WEAK | WEAK | MODERATE | STRONG

DIPOLE-DIPOLE ELECTRODE ARRAY



↓ Contact

| Cultural Features (fences, drill casings, etc.)

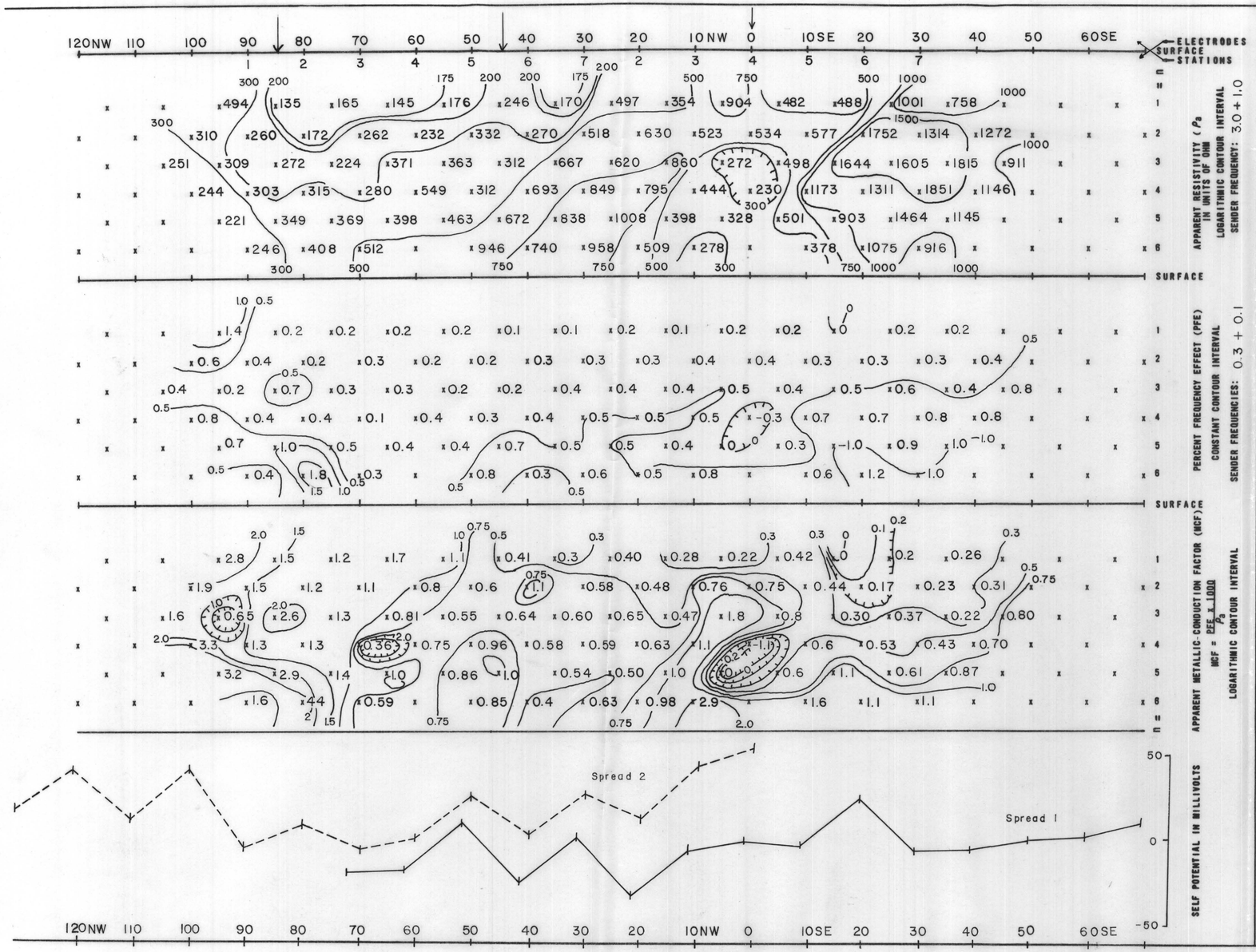
DATE

NOVEMBER 1981

HEINRICHS GEOEXPLORATION COMPANY

GEOEX # 1545

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



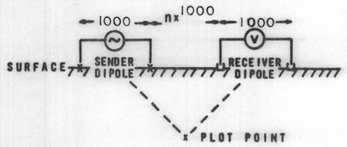
LINE NO.
1
SPREAD(S)
1, 2
BEARING
S 53°E

INDUCED POLARIZATION TRAVERSE SECTIONAL DATA SHEET of MESA B FOR TEXAS INSTRUMENTS INC.

RELATIVE ANOMALY STRENGTH

VERY WEAK — WEAK — MODERATE — STRONG

DIPOLE-DIPOLE ELECTRODE ARRAY



↓ Contact

| Cultural Features (fences, drill casings, etc.)

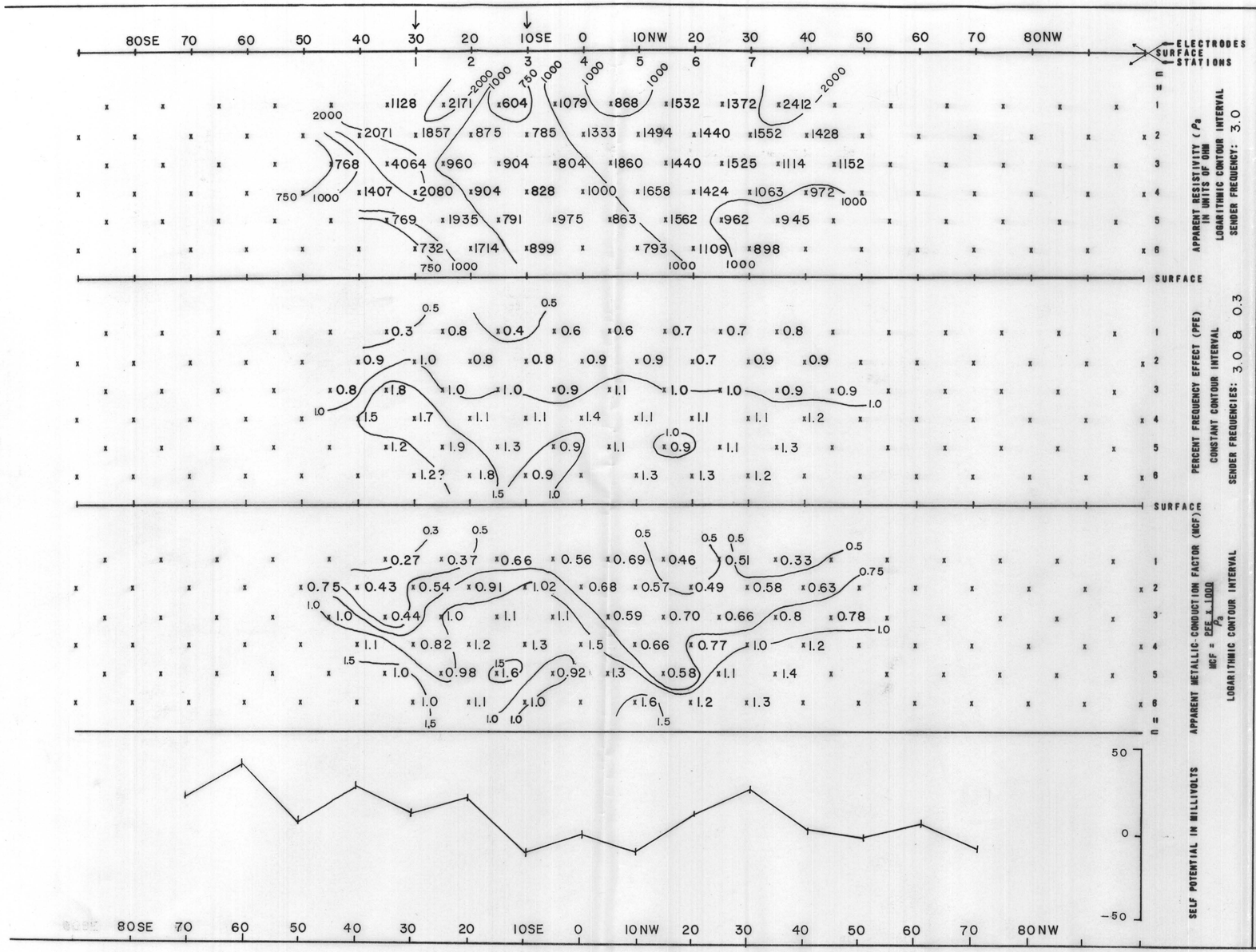
DATE

NOVEMBER 1981

HEINRICHS GEOEXPLORATION COMPANY

GEOEX # 1545

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



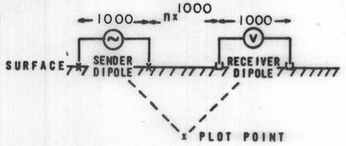
LINE NO.
|
SPREAD(S)
|
BEARING
S 15° E

INDUCED POLARIZATION TRAVERSE SECTIONAL DATA SHEET of MESA A FOR TEXAS INSTRUMENTS INC.

RELATIVE ANOMALY STRENGTH

VERY WEAK — WEAK — MODERATE — STRONG

DIPOLE-DIPOLE ELECTRODE ARRAY



↓ Contact

| Cultural Features (fences, drill casings, etc.)

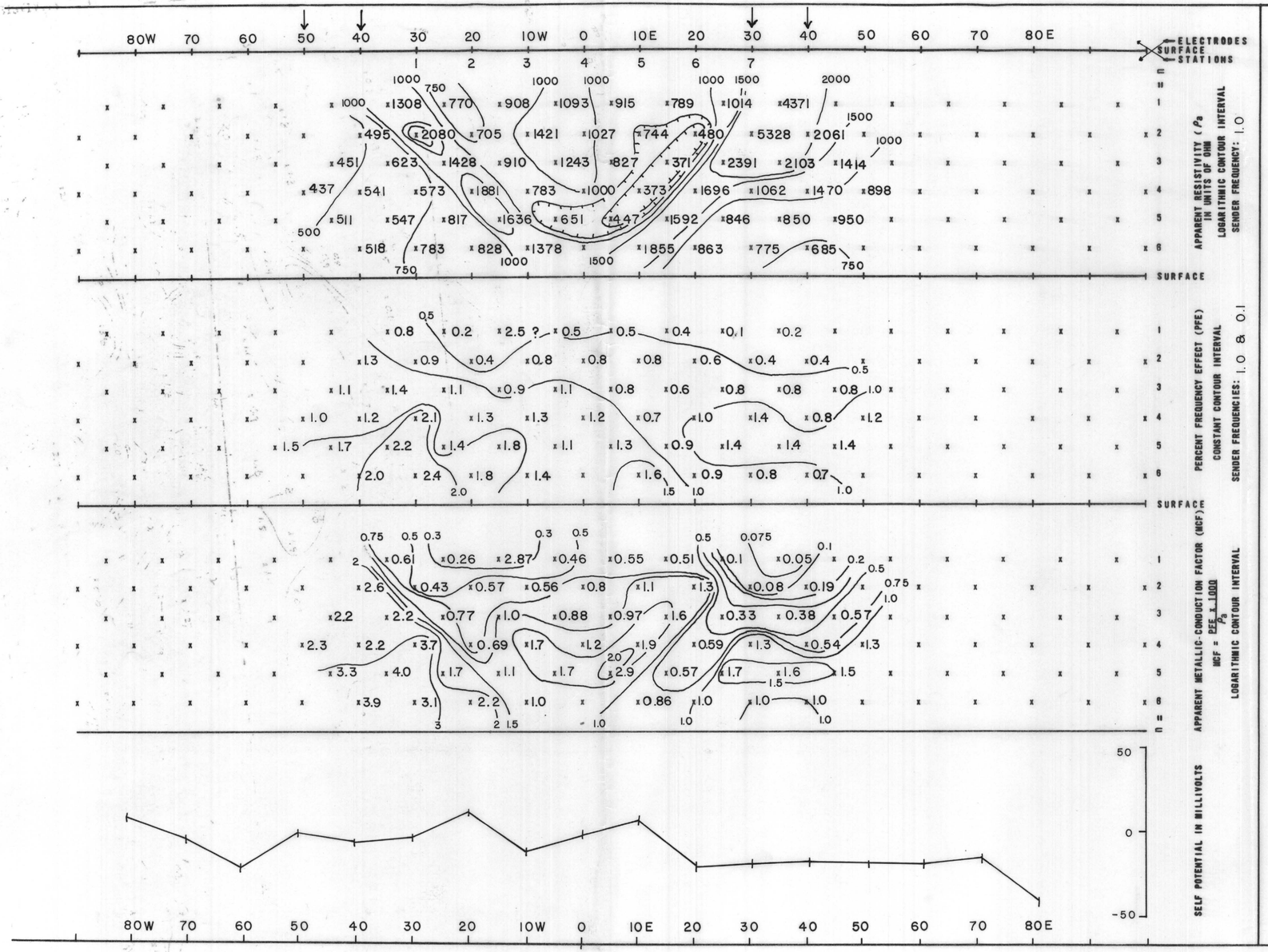
DATE

NOVEMBER 1981

HEINRICHS GEOEXPLORATION COMPANY

GEOEX # 1545

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



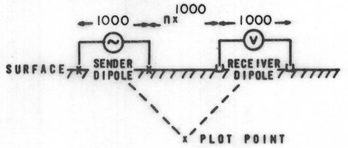
LINE NO.
2
SPREAD(S)
1
BEARING
N59°E

INDUCED POLARIZATION TRAVERSE SECTIONAL DATA SHEET of MESA A FOR TEXAS INSTRUMENTS INC.

RELATIVE ANOMALY STRENGTH

VERY WEAK — WEAK — MODERATE — STRONG

DIPOLE-DIPOLE ELECTRODE ARRAY



↓ Contact

| Cultural Features (fences, drill casings, etc.)

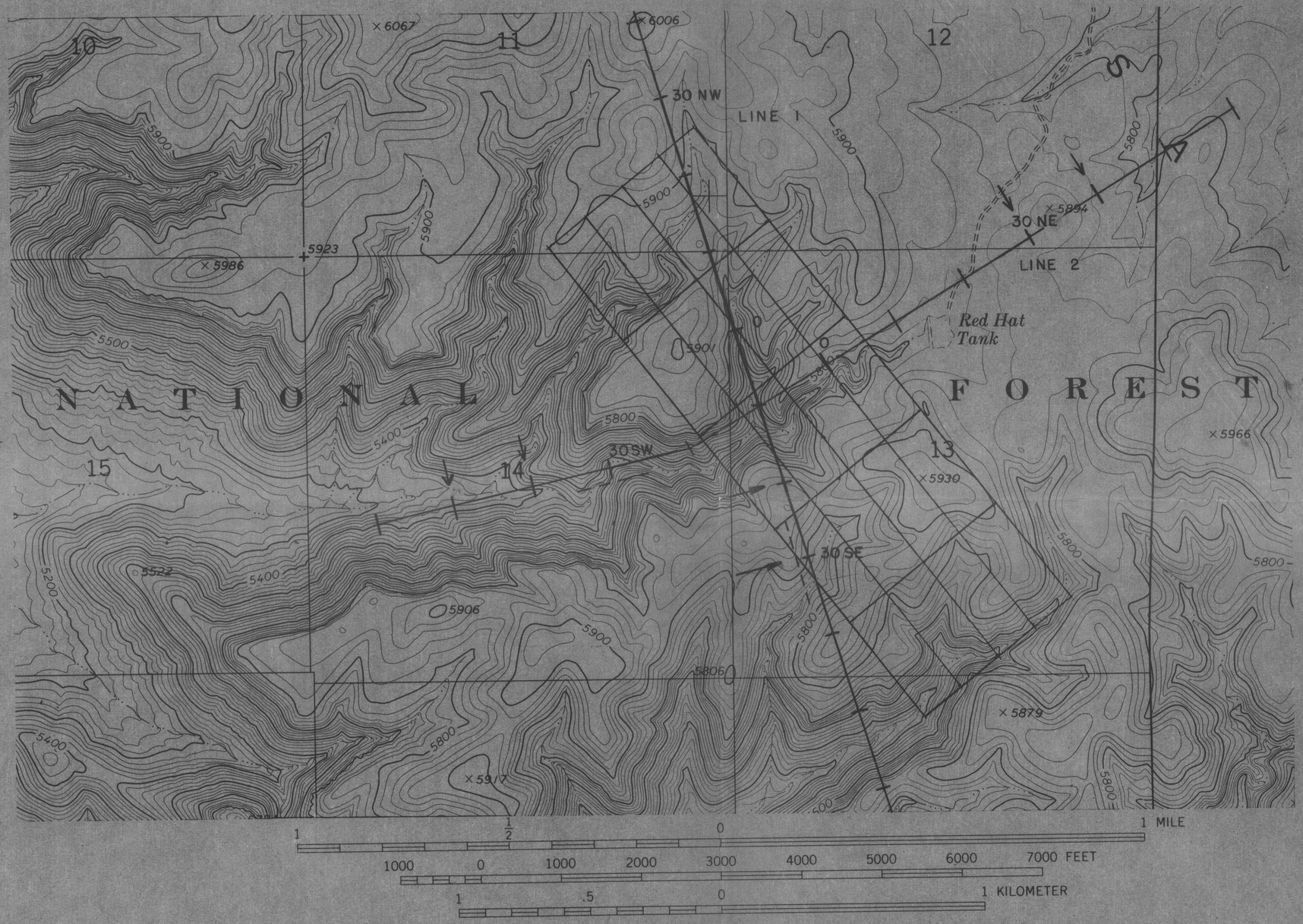
DATE

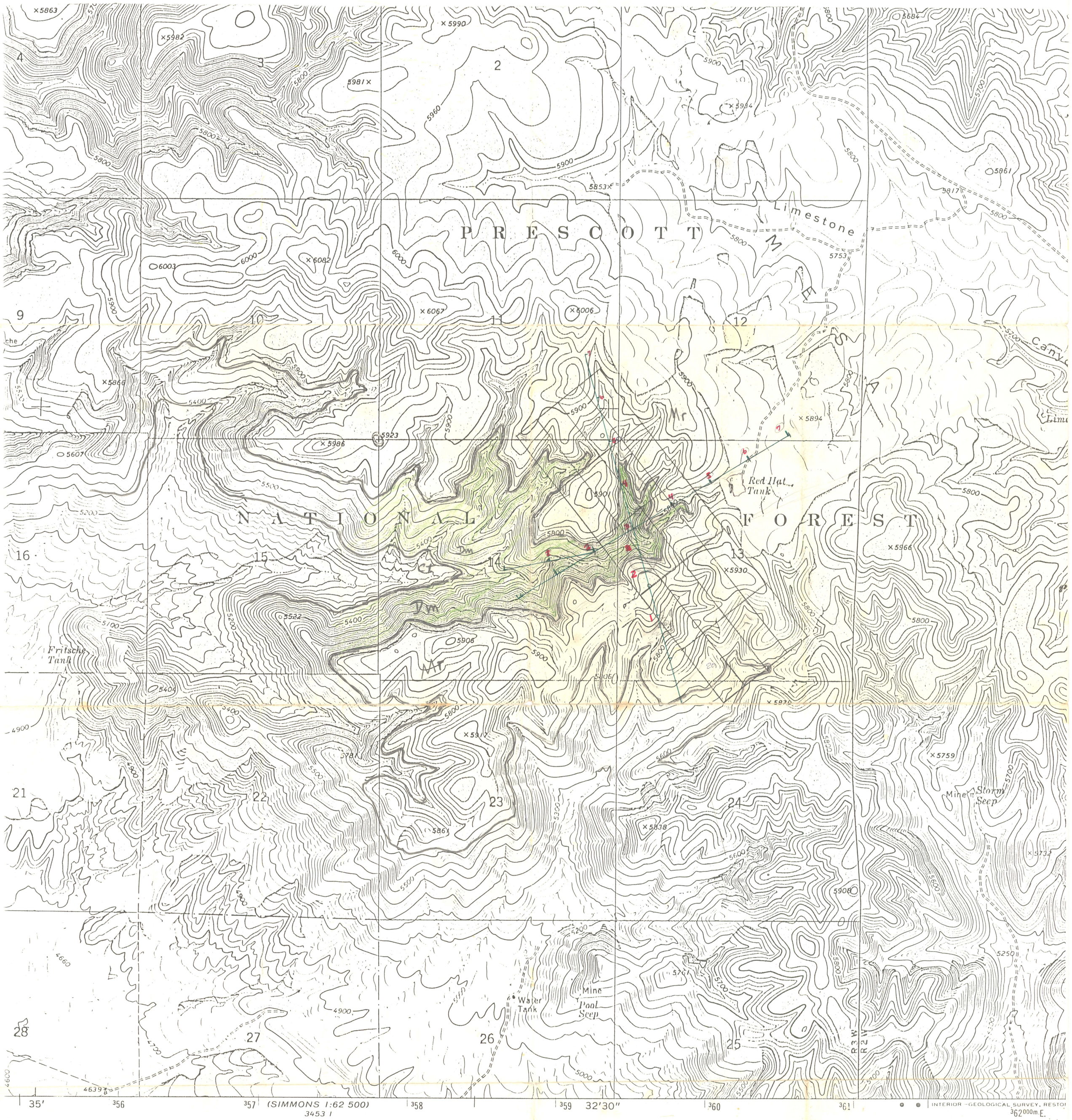
NOVEMBER 1981

HEINRICHS GEOEXPLORATION COMPANY

GEOEX # 1545

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


10
11
12
13
14
15
× 6067
× 6006
30 NW
LINE 1
5900
5800
30 NE
× 5894
LINE 2
5923
× 5986
Red Hat
Tank
5500
5400
5901
N A T I O N A L
F O R E S T
× 5966
30 SW
× 5930
30 SE
5200
5522
5906
5806
× 5879
× 5917
1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 KILOMETER



SCALE 1:24 000

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETRE

CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

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

TARGET "A" AREA

ARIZONA

QUADRANGLE LOCATION

ROAD CLASSIFICATIO

Primary highway, hard surface — Light-duty improved

Secondary highway, hard surface — Unimprov

Interstate Route — U. S. Route

PICACHO BUT

SE/4 PICACHO BUTTE

N3500—W1

197

AMS 3454 II SE-