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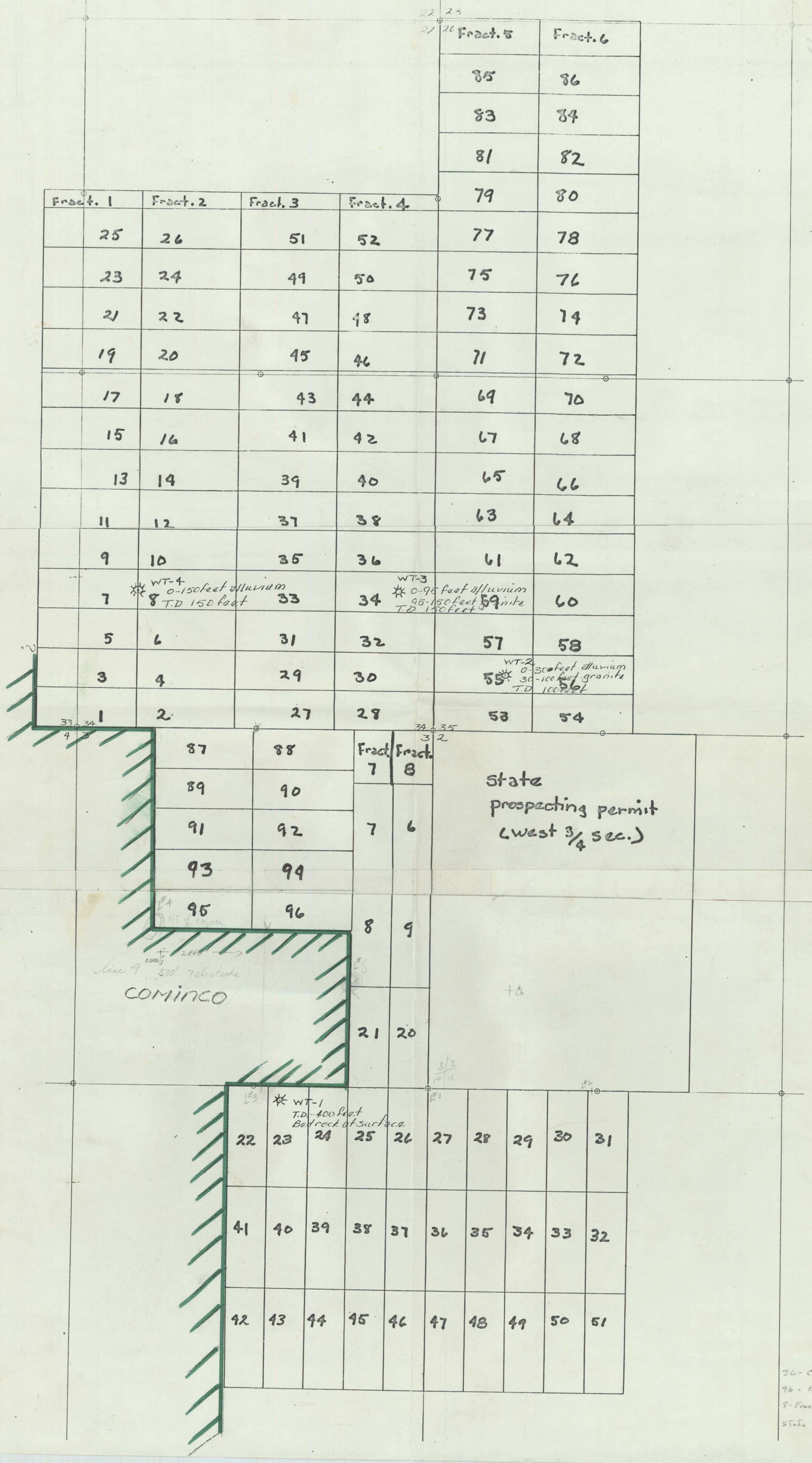
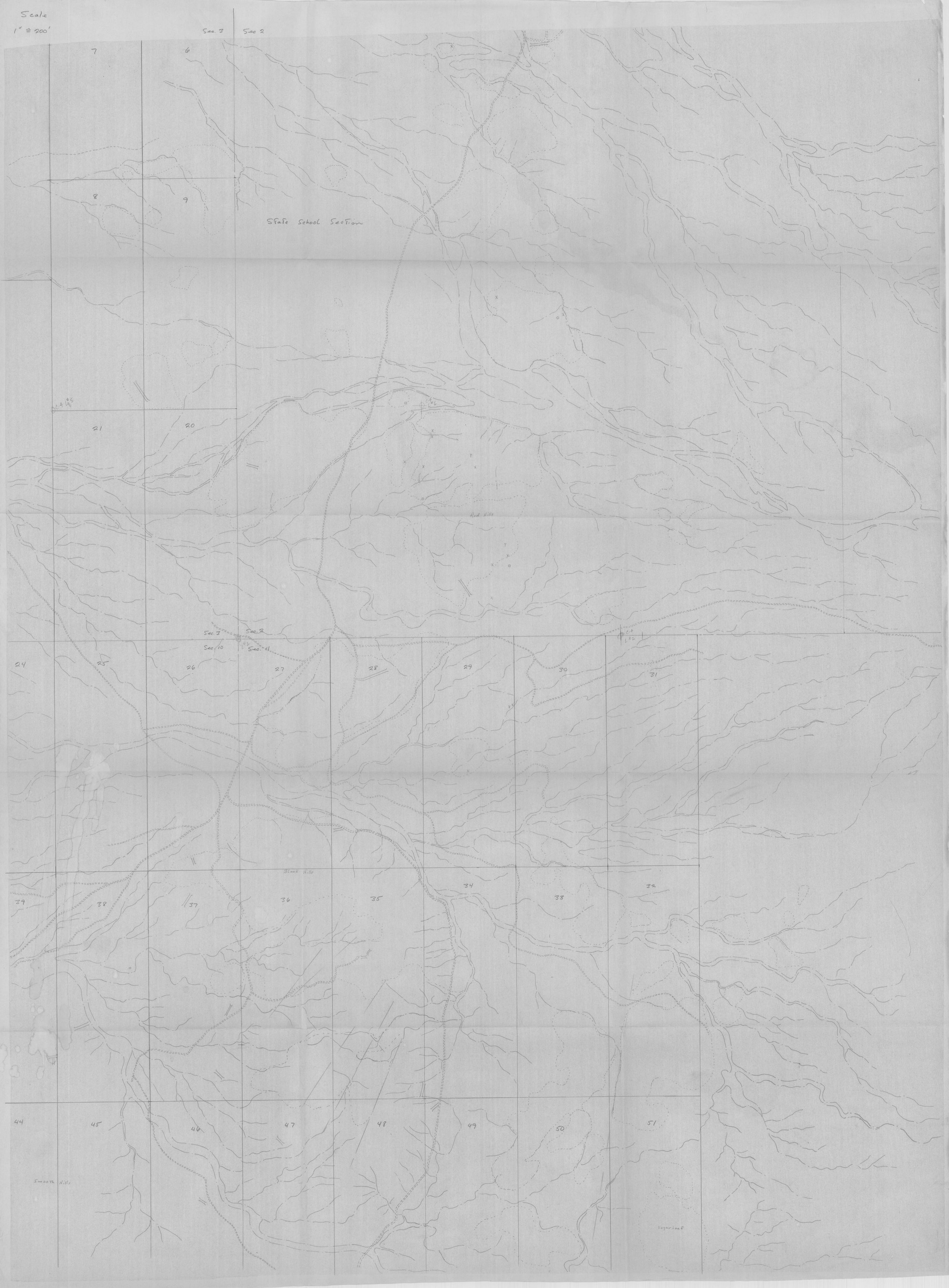

Fract. 1
Fract. 2
Fract. 3
Fract. 4
Fract. 5
Fract. 6
Fract. 7
Fract. 8
WT-4
0-150 feet alluvium
T.D. 150 feet
WT-3
0-95 feet alluvium
95-150 feet granite
T.D. 150 feet
WT-2
0-30 feet alluvium
30-100 feet granite
T.D. 100 feet
WT-1
T.D. 400 feet
Bedrock at surface
State
prospecting permit
(west 3/4 sec.)
COMINCO
line 4
500' electrode
36 - Copeland.
96 - Kaiser.
8 - Fract. Kaiser.
State Sec. 42.


Scale
1" ≅ 200'
Sec. 3
Sec 2
State School Section
Red Hills
Sec. 3
Sec. 2
Sec. 10
Sec. 11
Black Hills
Smooth Hills
Sugar Loaf

Induced Polarization Survey
White Tank Mountains
Maricopa County, Arizona

for

Kalium Chemicals Limited

September 1974

by

GEOEX

GEOEX Job# 964

INDUCED POLARIZATION SURVEY

WHITE TANK MOUNTAINS

MARICOPA COUNTY, ARIZONA

for

KALIUM CHEMICALS LIMITED

September 1974

by

HEINRICHS GEOEXPLORATION COMPANY
P.O. Box 5964, Tucson, AZ 85703

GEOEX Job #964

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INTRODUCTION

At the request of Dr. W. P. Leedy of Kalium Chemicals Limited, Heinrichs GEOEXploration Company completed an induced polarization (I.P.) survey in the White Tank Mountains area, Maricopa County, Arizona. This survey took place during the interim August 28 to September 14, 1974.

GEOEX personnel involved in the field work were John Barry, Geophysical Crew Chief, assisted by Bob May and Stan Billitz. Interpretation, report and supervision are by Chris S. Ludwig, Chief Geophysicist, assisted by the GEOEX staff.

The purpose of this survey was to detect and delineate any significant subsurface sulfide zones in an area showing indications of disseminated copper mineralization and associated alteration zones. Also, this work is to serve as partial fulfillment of the 1974 assessment year work requirements.

CONCLUSIONS AND RECOMMENDATIONS

An east-west trending zone of probable sulfide caused I.P. response about 2,500 feet wide and at least 6,000 feet long was partially defined. The zone is open-ended to the west but is apparently closed to the east, with the termination being between Lines 6 and 2. This zone of anomalism is of such size and strength as to be of possible economic significance, particularly if there is a favorable ratio of ore polarizing minerals to non-ore polarizing minerals present.

Drilling is recommended to determine the economic potential of the I.P. response and several initial sites are herewith suggested based mainly on geophysical considerations. It is realized that only a portion of the anomalous zone is on Kalium controlled property and the recommended drill sites and their relative priorities will depend on whether or not the two properties are processed under a joint venture arrangement or separately. Refer also to the appended "Comments on Drilling I.P. Targets" for further details.

A vertical hole is suggested near Station 21N on Line 6 to test a relatively strong, shallow zone of I.P. response. The top of the sulfide zone will likely be seen within 150 feet of the surface and sulfides should persist for several hundred feet and to obtain a representative intersection of the responsive zone, the hole should be programmed for at least 500 feet total depth.

Two vertical holes are suggested on Line 4. One is suggested near 23N (as close to the Kalium property limit line as practical) and should be drilled to at least 600 feet depth. Sulfides are expected to be encountered within 150 to 250 feet of the surface. The other hole is outside the property presently controlled by Kalium but is mentioned in case of a joint venture and is designed to test a somewhat deeper and stronger portion of the anomaly, on Line 4. Its suggested location is near 17.5N and sulfides are

buried perhaps 300 to 400 feet below surface. The hole should be programmed for say, 800 feet total depth to obtain a representative intersection of the causative source.

Existing drill hole WT-1 on the south flank of the anomaly near Line 3 is reported to be 400 feet deep. It could be deepened to 1,000 to 1,500 feet total depth to help evaluate the interpreted possible southerly dip (or top slope) of the anomaly source. This is a rather low priority recommendation and should only be considered if there are supporting geologic factors.

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

If the initial drill results are encouraging, additional I.P. coverage on the same grid extended to the west is recommended to close off and delineate the open-ended response, assuming a land position or joint venture agreement can be obtained.

INTERPRETATION

The I.P. results show an elongated generally east-west trending somewhat arcuate anomalous zone which curves to the north, ranging in relative anomaly strength from moderate to very weak. The width of the source is about 2,500 feet and at least 6,000 feet of strike length has been delineated with the feature being open-ended to the west. The eastern cutoff is probably between Lines 6 and 2 and is likely rather abrupt as Line 6 shows quite good response but Line 2, about 1,300 feet to the east, shows only very weak, poorly defined response.

Depth to the top of the anomaly source is somewhat variable but generally quite shallow. The shallowest indicated response is on Line 1 and Line 6 where the top of the source appears to be buried no deeper than about 150 feet. The Line 3 response appears to be shallow also but with the longer dipoles involved (1000 feet compared to 500 feet), there is a corresponding increase in interpretational resolving scale and the top of the source could be buried up to about 300 feet and still appear shallow. Line 4 suggests a depth of burial of about 200 feet with a low resistivity material overlying the anomalous source - perhaps a veneer of alluvium or volcanics or possibly the result of increased alteration and fracturing associated with the mineralization.

Line 5, between Lines 1 and 3, shows a locally deeper and weaker zone of I.P. response with the top of the source being perhaps 300 to 500 feet below surface.

Actually, the top of the source may be a very gradational increase in polarizable content rather than a sharply defined boundary. All of the lines suggest that the north limit of the anomalous source is steeply dipping (between 45° and 90°) while the south margin appears to dip rather gently (say 20° to 40°) to the south. Perhaps this slope to the south is not a structural dip but rather an increasing depth to the top of the source to the south.

The depth extent of the anomalous source is difficult to estimate but Lines 1 and 6 indicate that it may be limited and present a response pattern typical of a source roughly 250 to 500 feet thick. Lines 3 and 4 suggest a source with good depth persistence, perhaps in excess of 1,000 feet. Therefore, there seems to be a basic difference in character of the source to the east and west of Line 5 and perhaps Line 5 roughly defines a structural break of some sort.

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

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

The resistivities in general, are quite high and show only slight correlation with the I.P. Lines 3, 4 and 6 exhibit a near surface low resistivity zone which approximately correlates with the I.P. anomaly but this may be coincidental. These lows may result from a surface veneer of more conductive alluvial overburden or volcanics or perhaps they result from the concentration of conductive sulfide mineralization and its associated near surface weathering alteration products; or combinations of these possibilities.

The self potentials are quite uniform over the area surveyed except for a minor low noted near 15N on Line 4 which correlates with a portion of the I.P. anomaly. This minor low could be reflecting a local zone of near surface, relatively interconnected actively oxidizing sulfides. The lack of self potential response elsewhere over the I.P. anomaly is not in conflict with the I.P. results in that the I.P. suggests a disseminated and not particularly conductive zone of sulfides generally present.

PROCEDURES

A GEOEX Mark 7 multifrequency I.P. system was employed to obtain this coverage and used 0.3 and 3.0 hz or 0.1 and 1.0 hz sending frequency pairs. The lower frequency pair was used only on Line 1, Spread 1, after which it was decided that the resistivity level was high enough that no adverse inductive coupling was present and that the operationally faster, higher frequency pair would be acceptable to use on the remaining spreads.

The standard collinear dipole-dipole array was used with "spreads" of seven sending electrodes each and 1,000 or 500 foot dipole lengths. Line 1 was run with both 1,000 foot (Spread 1) and 500 foot (Spread 2) dipole lengths. Lines 2 and 3 used 1,000 foot dipoles while Lines 4, 5 and 6 used 500 foot dipoles. All lines were oriented north-south and spaced about one quarter mile apart. A total of 15.2 line miles of I.P. coverage was obtained on this survey, of which 9.5 miles is "subsurface" plotted data.

Sending-receiving dipole separations range from 1 to 6 dipole lengths on all lines and, typically, this should give resolvable depth penetration within the zone ranging from about 1/3 dipole length to as much as about 2 dipole lengths. On the 1,000 foot dipole spreads, for example, the penetration would range from about 300 feet to as much as 2,000 feet. On the 500 foot dipole spreads, the penetration would be only half as much but with twice the resolution as the 1000 foot dipole spreads.

The data are presented on "sectional" data sheets, one for each spread, showing from top to bottom; resistivity, percent frequency effect (PFE), and metallic conduction factor (MCF) contoured in "sectional" form. The self potential readings taken in conjunction with the I.P. readings are shown at the bottom of the sheets in profile form. An "Induced Polarization Location and Interpretation Plan" is also included showing the surface projected plan interpretation at a scale of 1" = 1,000.

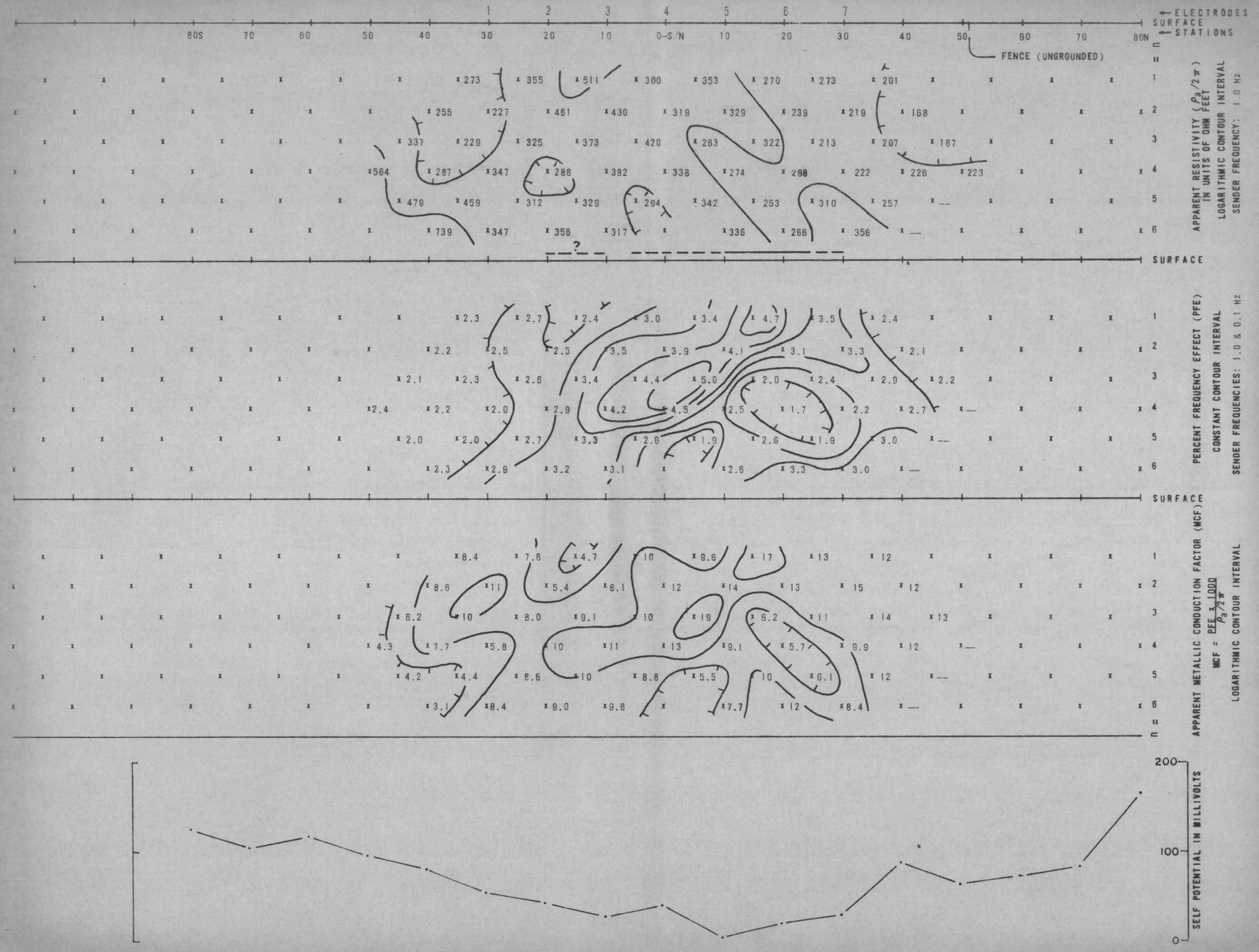
Respectfully submitted,

Heinrichs GEOEXploration Company

Chris S. Ludwig

Chris S. Ludwig
Chief Geophysicist

CSL:mt



964-73

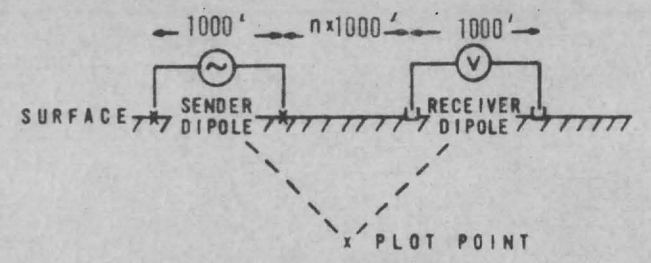
LINE NO.
1
SPREAD(S)
1
BEARING
N-S

INDUCED POLARIZATION TRAVERSE SECTIONAL DATA SHEET of WHITE TANK MOUNTAINS for KALIUM CHEMICALS, LTD.

RELATIVE ANOMALY STRENGTH

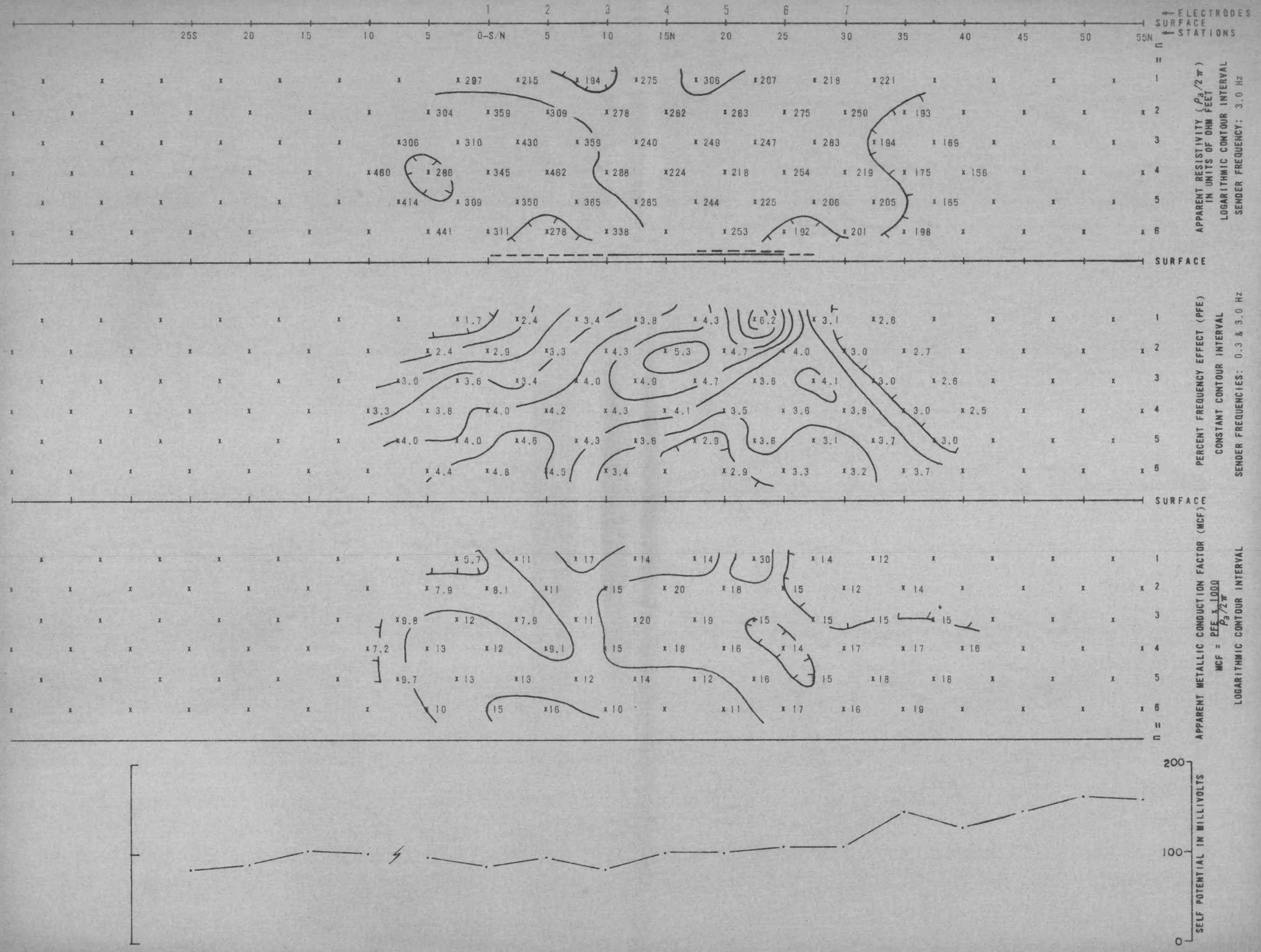
VERY WEAK — WEAK — MODERATE — STRONG

DIPOLE-DIPOLE ELECTRODE ARRAY



DATE
AUGUST 1974

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



964-74

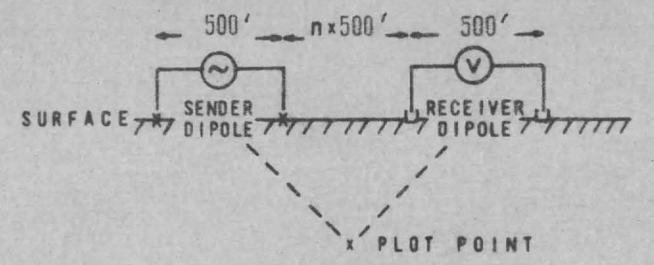
LINE NO.
1
SPREAD(S)
2
BEARING
N-S

INDUCED POLARIZATION TRAVERSE SECTIONAL DATA SHEET of WHITE TANK MOUNTAINS for KALIUM CHEMICALS, LTD.

RELATIVE ANOMALY STRENGTH

VERY WEAK | WEAK | MODERATE | STRONG

DIPOLE-DIPOLE ELECTRODE ARRAY



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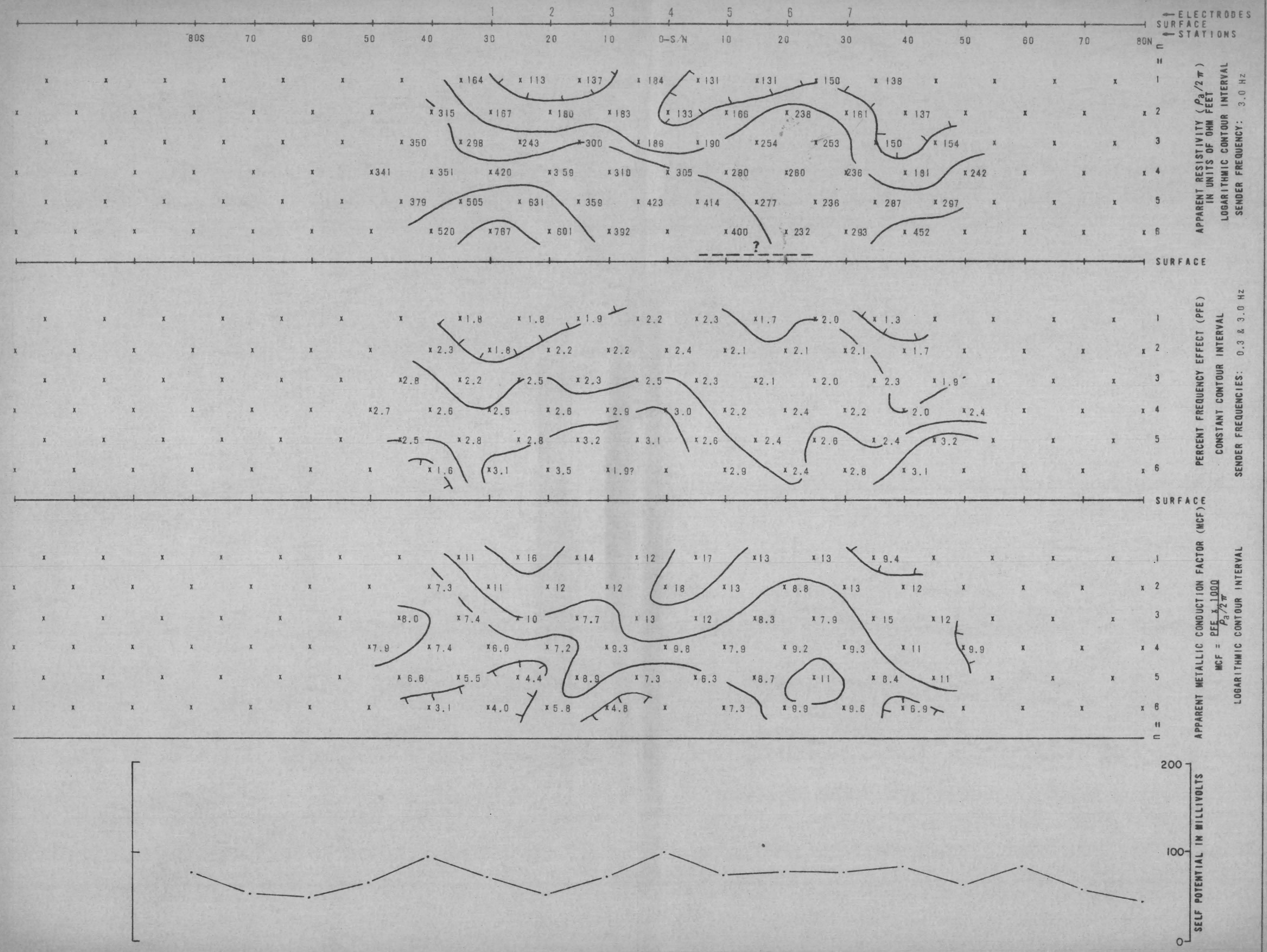
HEINRICHS GEOEXPLORATION COMPANY
806 W. GRANT ROAD, POST OFFICE BOX 5964, TUCSON, ARIZ., 85703, PHONE: (602)623-0578



984-74

INDUCED POLARIZATION TRAVERSE SECTIONAL DATA SHEET of WHITE TANK MOUNTAINS for KALIUM CHEMICALS, LTD.

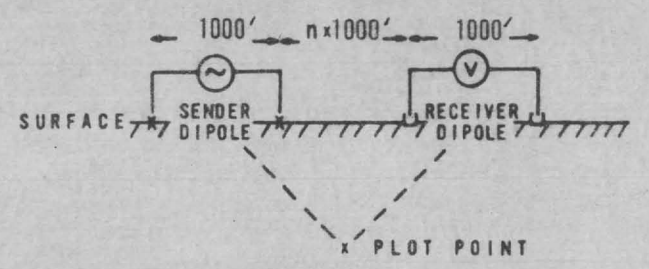
SPREAD(S) 1

BEARING N-S

RELATIVE ANOMALY STRENGTH

VERY WEAK | WEAK | MODERATE | STRONG

DIPOLE-DIPOLE ELECTRODE ARRAY



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SEPTEMBER 1974

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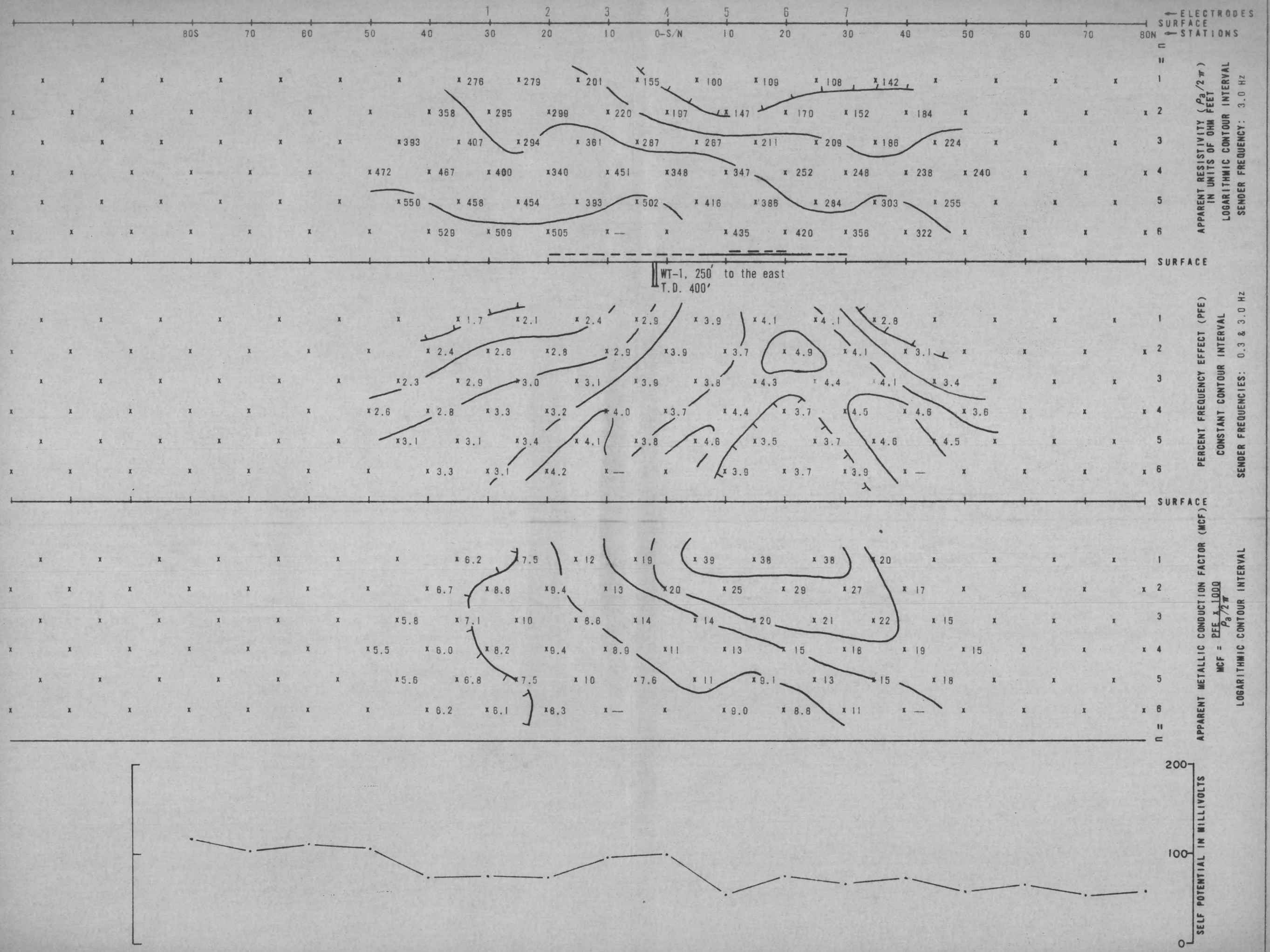
964-74

LINE NO.
3
SPREAD(S)
1
BEARING
N/S

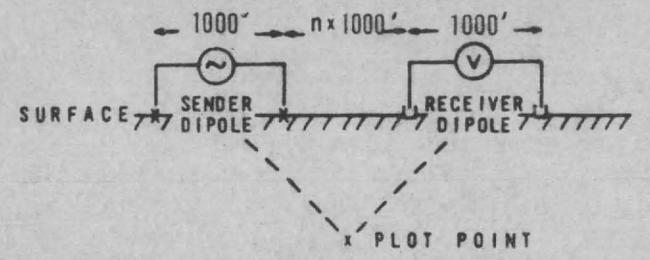
INDUCED POLARIZATION TRAVERSE SECTIONAL DATA SHEET of WHITE TANK MOUNTAINS for KALIUM CHEMICALS, LTD.



RELATIVE ANOMALY STRENGTH

VERY WEAK | WEAK | MODERATE | STRONG

DIPOLE-DIPOLE ELECTRODE ARRAY



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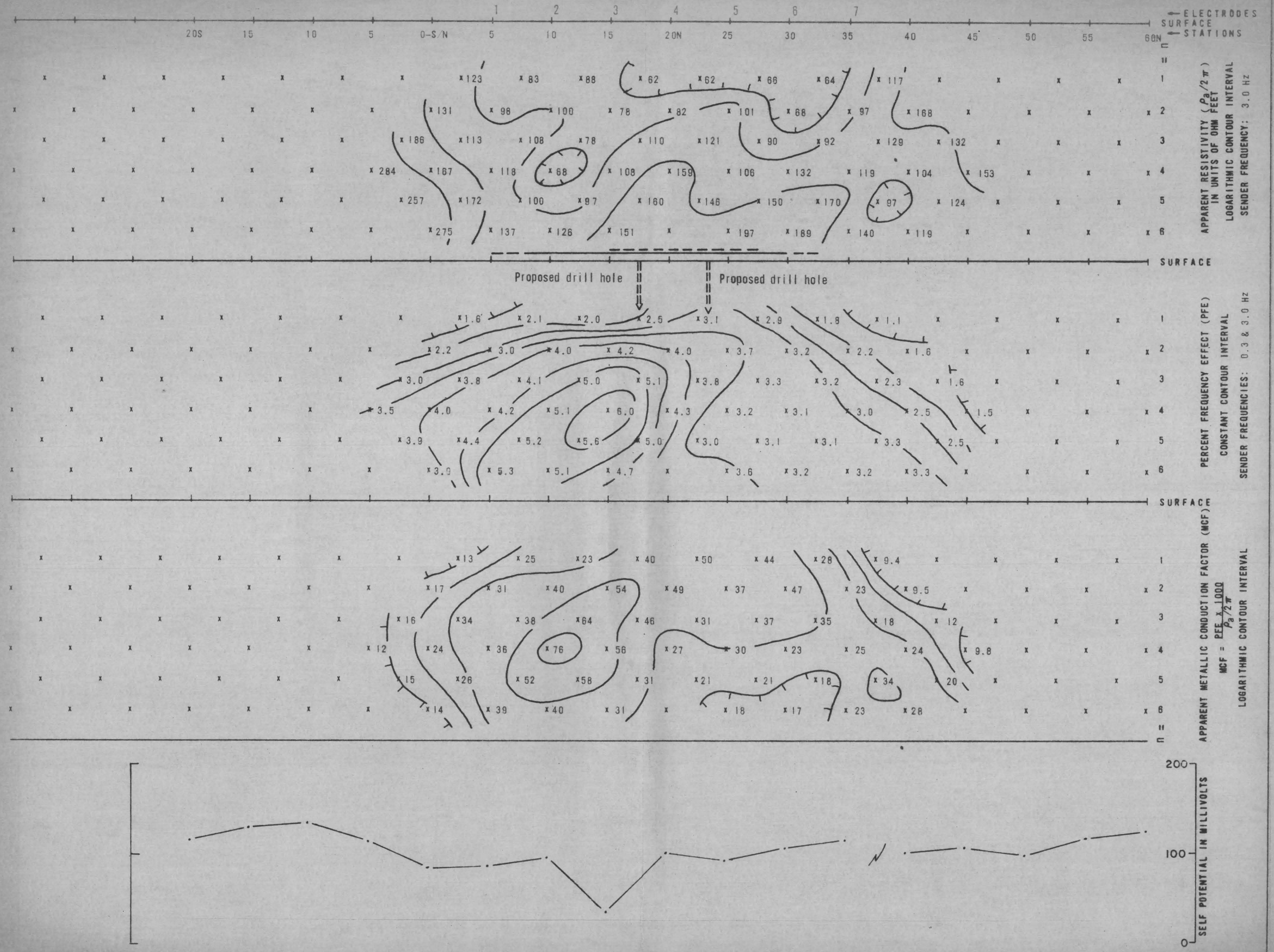


964-74

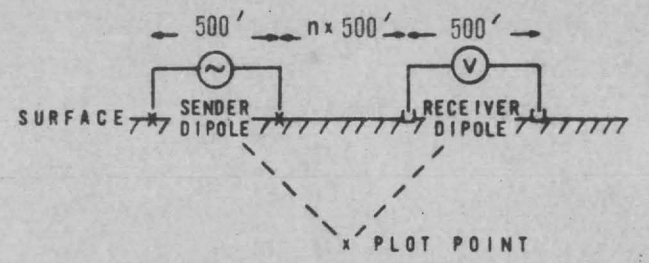
LINE NO.
4
SPREAD(S)
1
BEARING
N/S

INDUCED POLARIZATION TRAVERSE SECTIONAL DATA SHEET of WHITE TANK MOUNTAINS for KALIUM CHEMICALS, LTD.

RELATIVE ANOMALY STRENGTH

VERY WEAK | WEAK | MODERATE | STRONG

DIPOLE-DIPOLE ELECTRODE ARRAY



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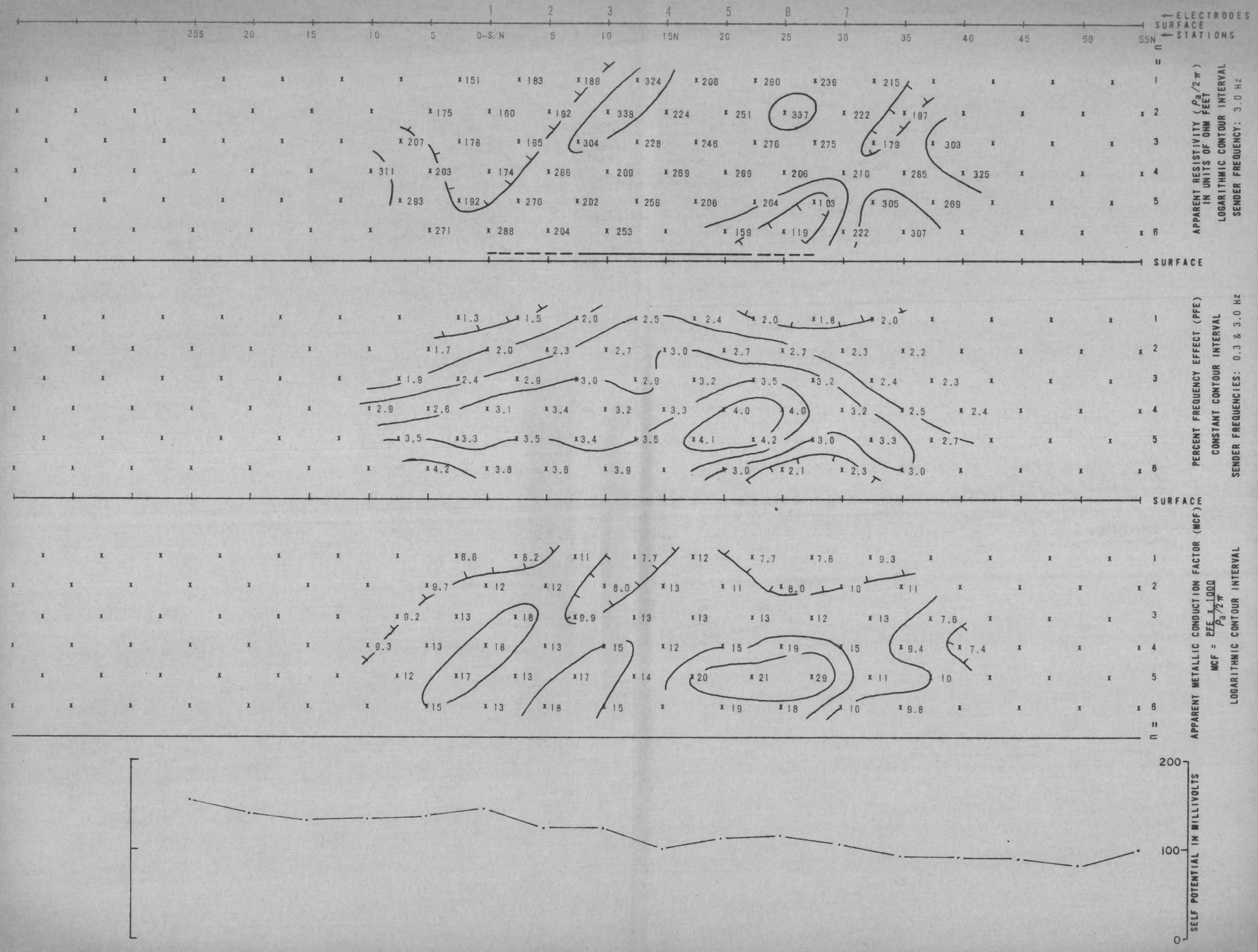


964-74

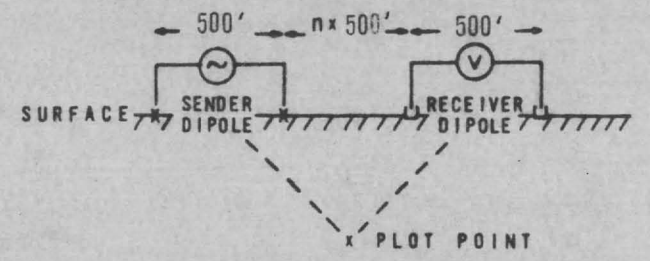
LINE NO.
5
SPREAD(S)
1
BEARING
N-S

INDUCED POLARIZATION TRAVERSE SECTIONAL DATA SHEET of WHITE TANK MOUNTAINS for KALIUM CHEMICALS, LTD.

RELATIVE ANOMALY STRENGTH

VERY WEAK — WEAK — MODERATE — STRONG

DIPOLE-DIPOLE ELECTRODE ARRAY



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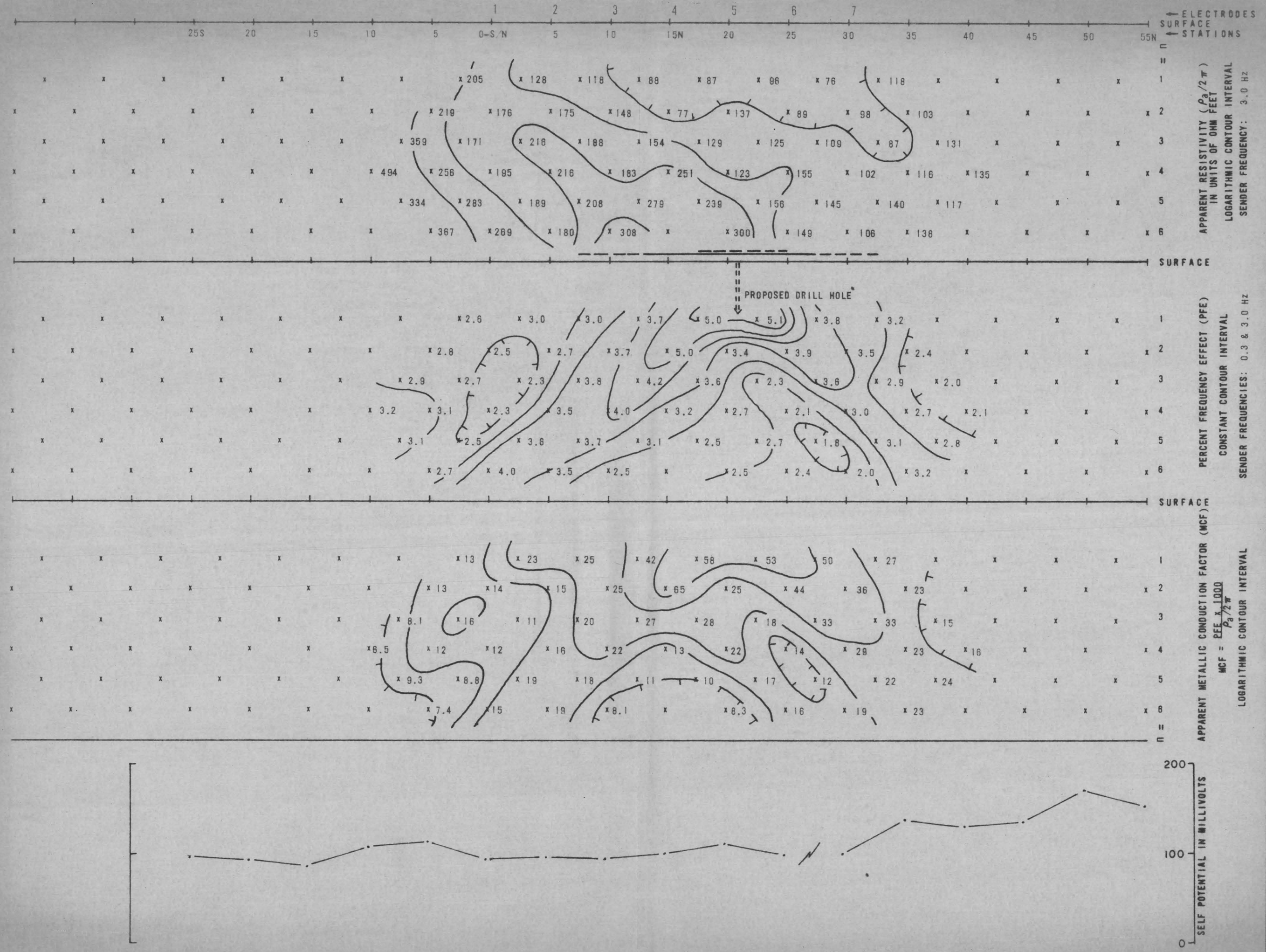


964-74

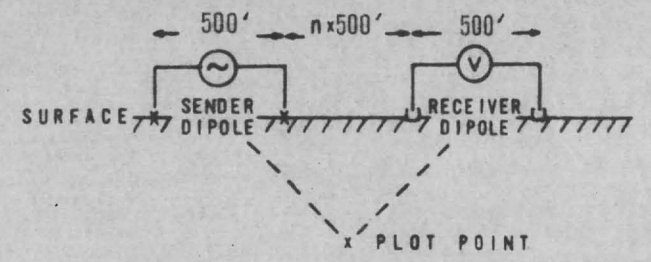
LINE NO.
6
SPREAD(S)
1
BEARING
N-S

INDUCED POLARIZATION TRAVERSE SECTIONAL DATA SHEET of WHITE TANK MOUNTAINS for KALIUM CHEMICALS, LTD.

RELATIVE ANOMALY STRENGTH

VERY WEAK | WEAK | MODERATE | STRONG

DIPOLE-DIPOLE ELECTRODE ARRAY



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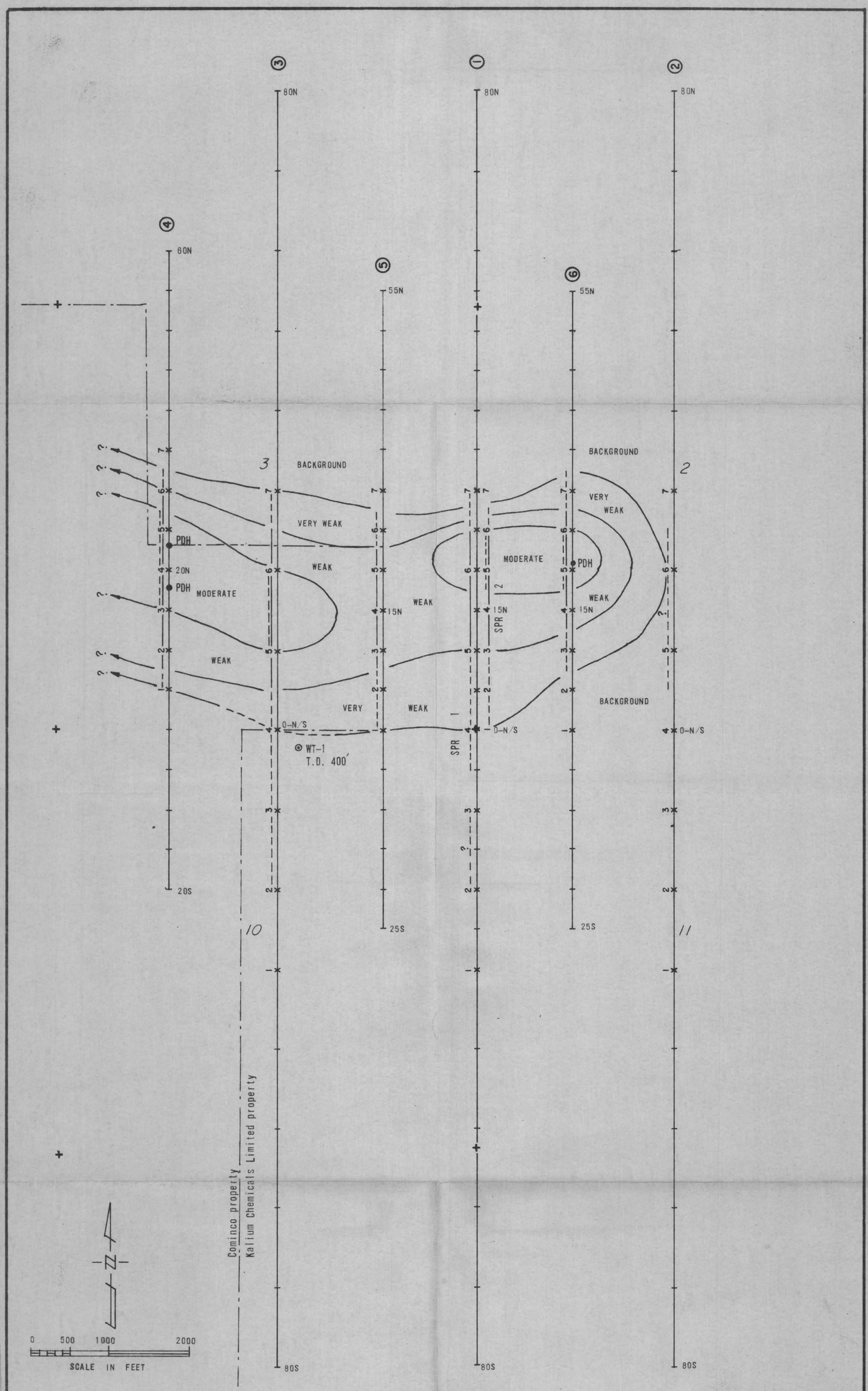
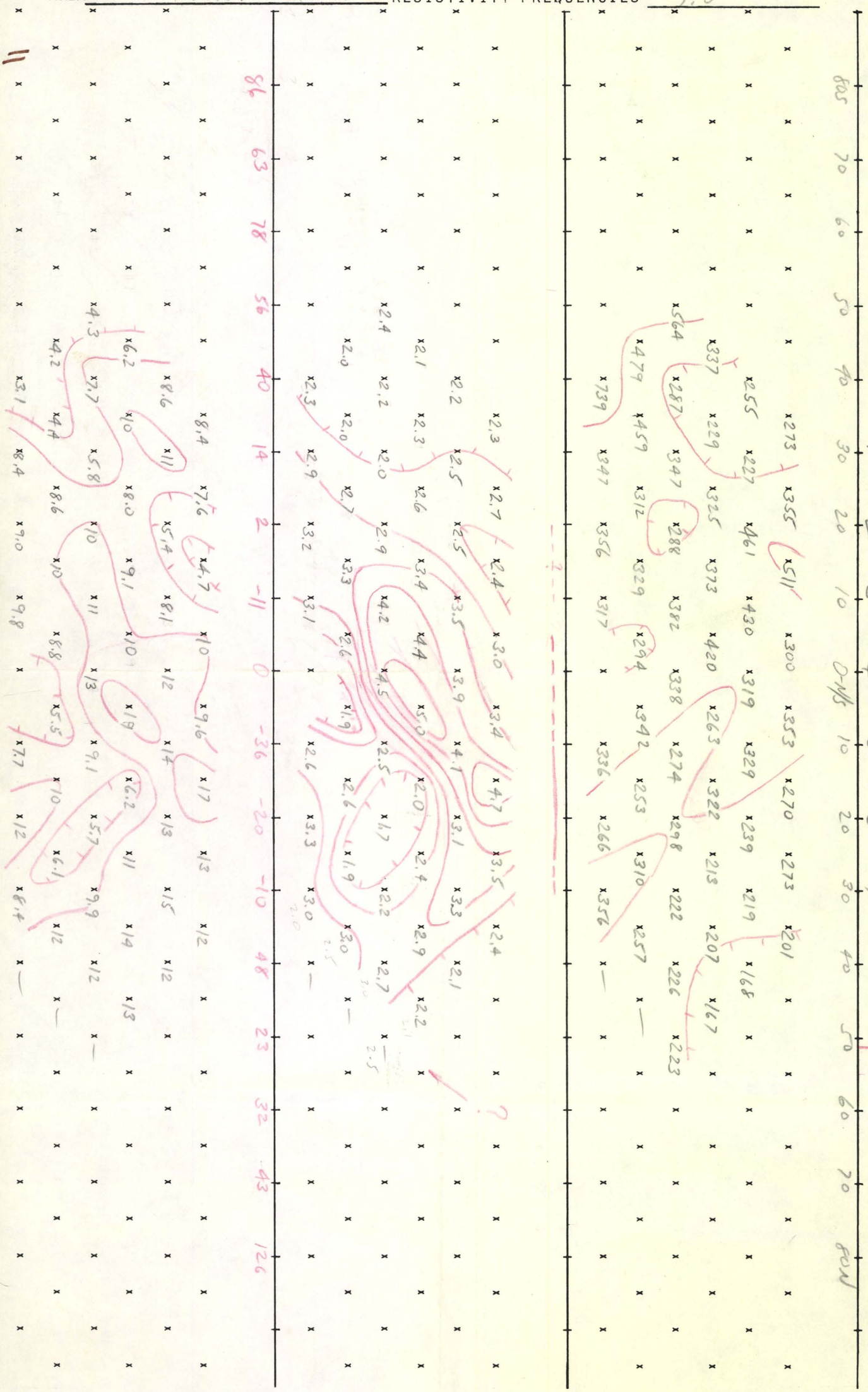


INDUCED POLARIZATION LOCATION
AND INTERPRETATION PLAN
of
WHITE TANK MOUNTAINS AREA
MARICOPA COUNTY, ARIZONA
for
KALIUM CHEMICALS LIMITED
by
HEINRICHS GEOEXPLORATION COMPANY
Job number 964-74 September 1974

JOB# 964 LINE# 1 SP 1 a = 1000' BEARING N-S

CLIENT Kalium Chemicals, Ltd DATE August 1974 FREQUENCIES 0.1 & 1.0 Hz

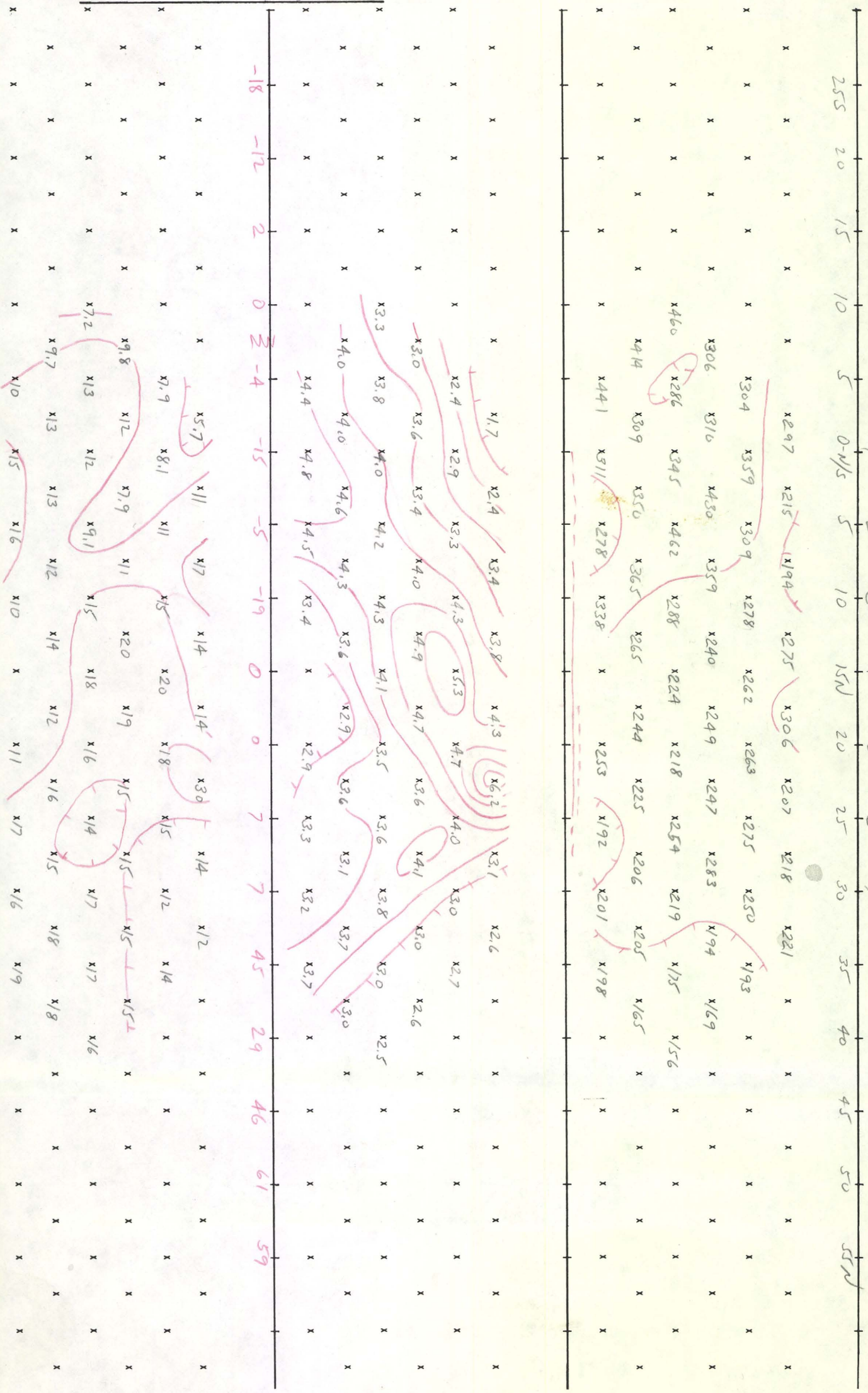
AREA White Tank Mountains RESISTIVITY FREQUENCIES 1.0



JOB# 964 LINE# 1 SP 2 a = 500' LOOKING N-S

CLIENT Kalium Chemicals Limited DATE Sept. 1974 FREQUENCIES 0.3 & 3.0 Hz

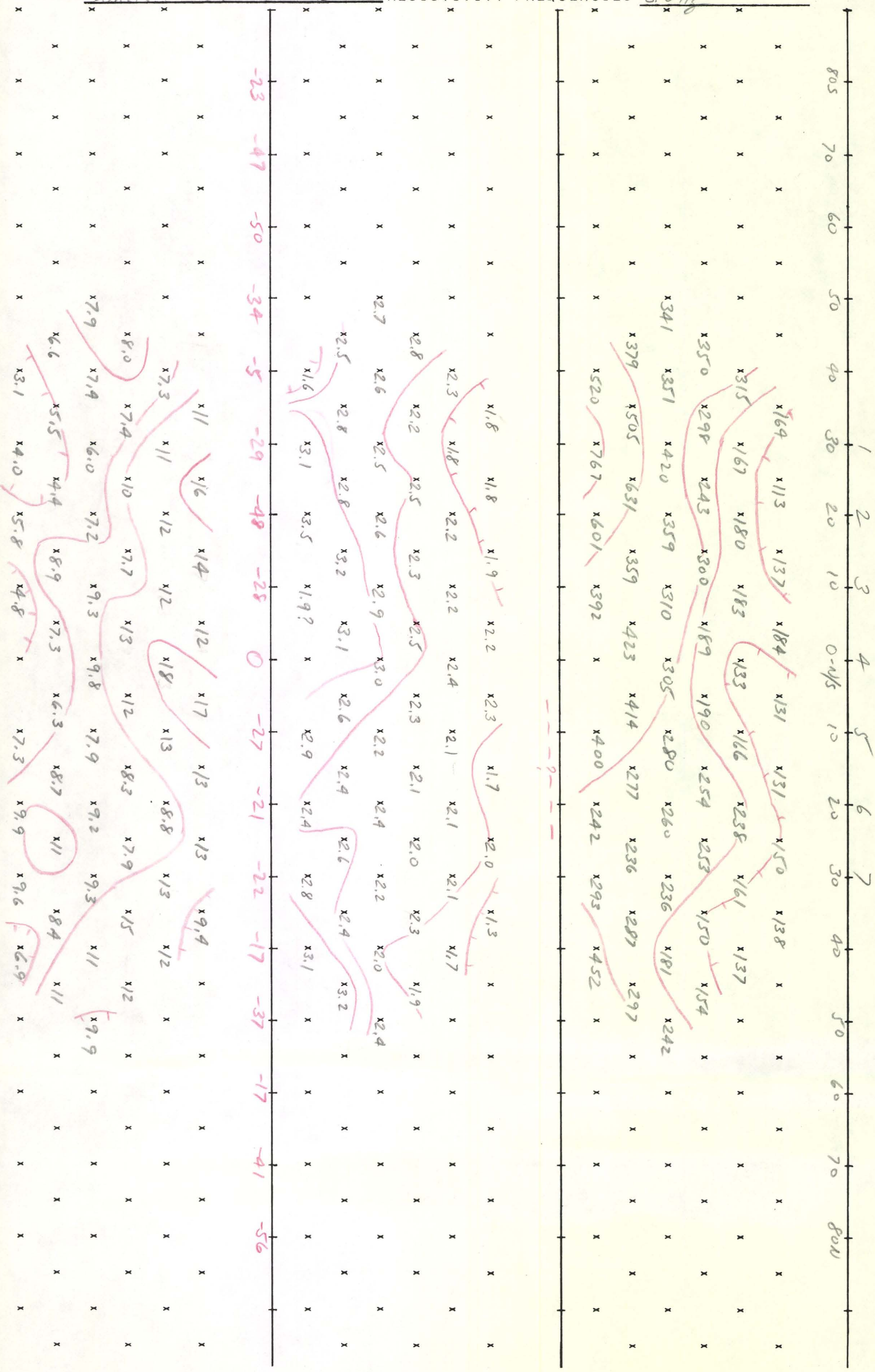
AREA White Tank Mountains



JOB# 964 LINE# 2 SP 1 a = 1000' BEARING N-S

CLIENT Kalium Chemicals Limited DATE Sept. 1974 FREQUENCIES 0.3 & 3.0 Hz

AREA White Tank Mountains RESISTIVITY FREQUENCIES 3.0 Hz



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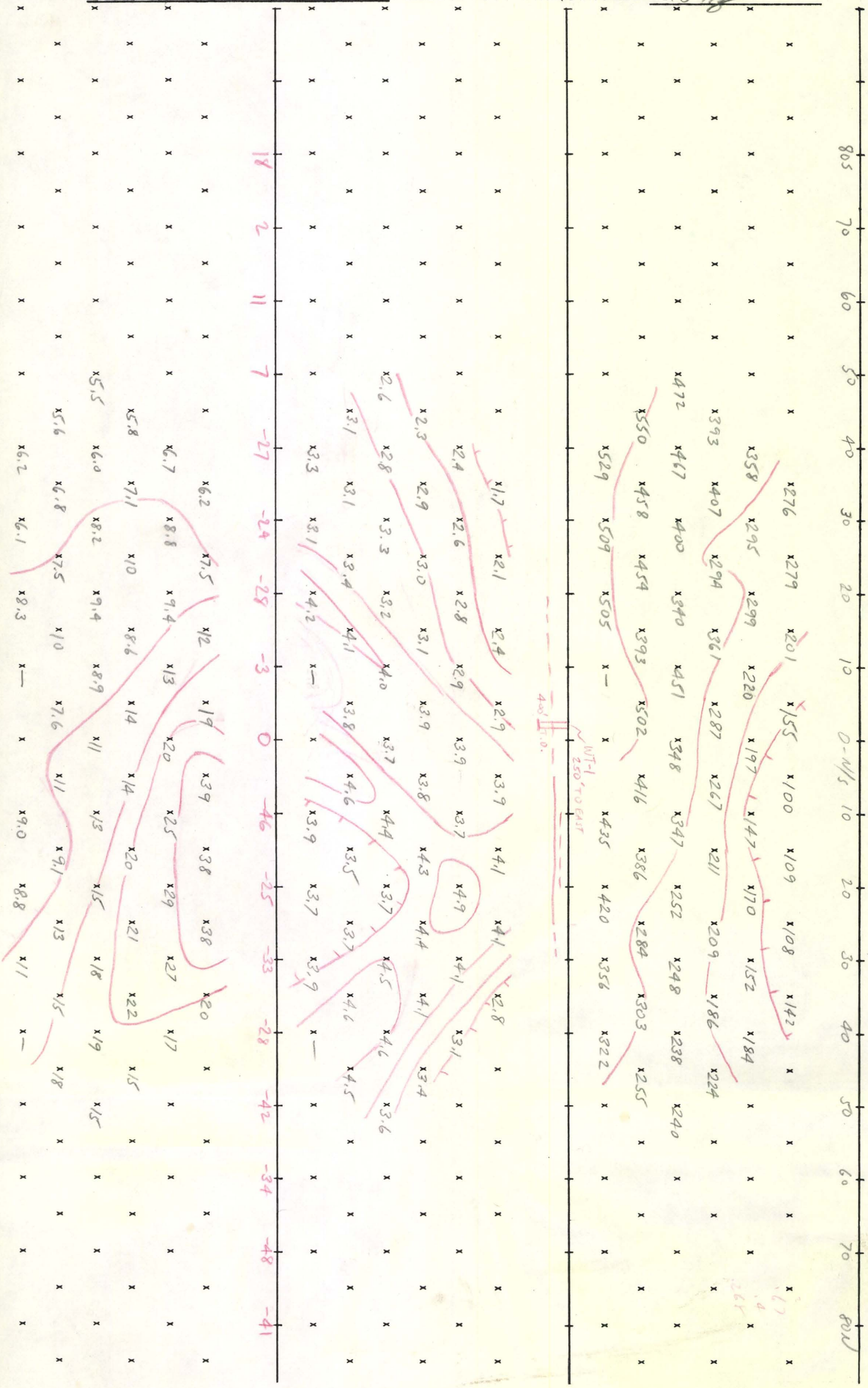
CLIENT Kalium Chemicals Limited DATE Sept. 1974 FREQUENCIES 0.3 & 3.0 Hz

AREA White Tank Mountains RESISTIVITY FREQUENCIES 3.0 Hz

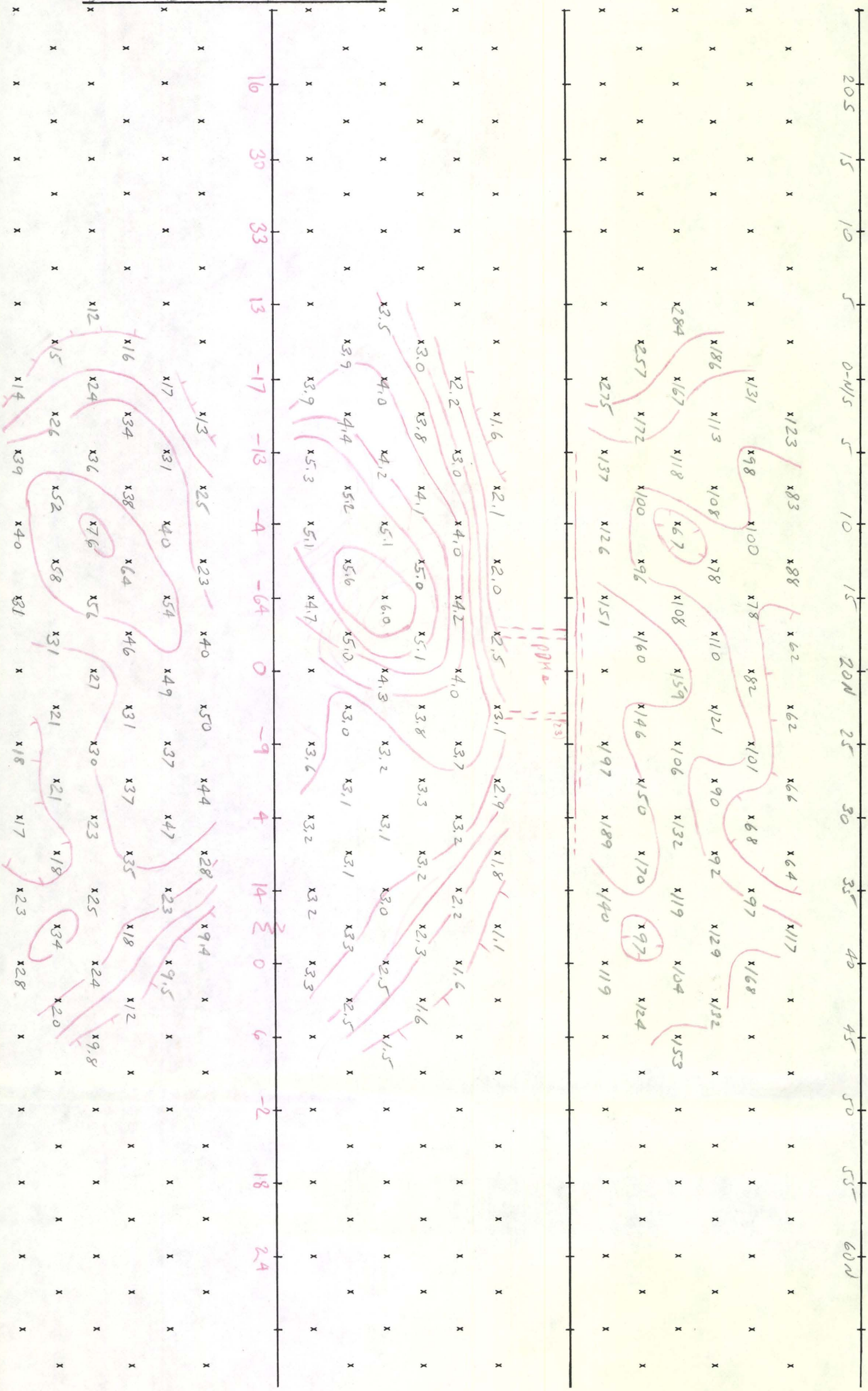


JOB# 964 LINE# 4[redacted] SP 1 a = 500' [redacted]LOOKING Bearing N-S

CLIENT Kalvin Chemicals Limited DATE Sept 1974 FREQUENCIES 0.3 & 3.0 Hz

AREA White Tank Mountains

PC 3.0 hz

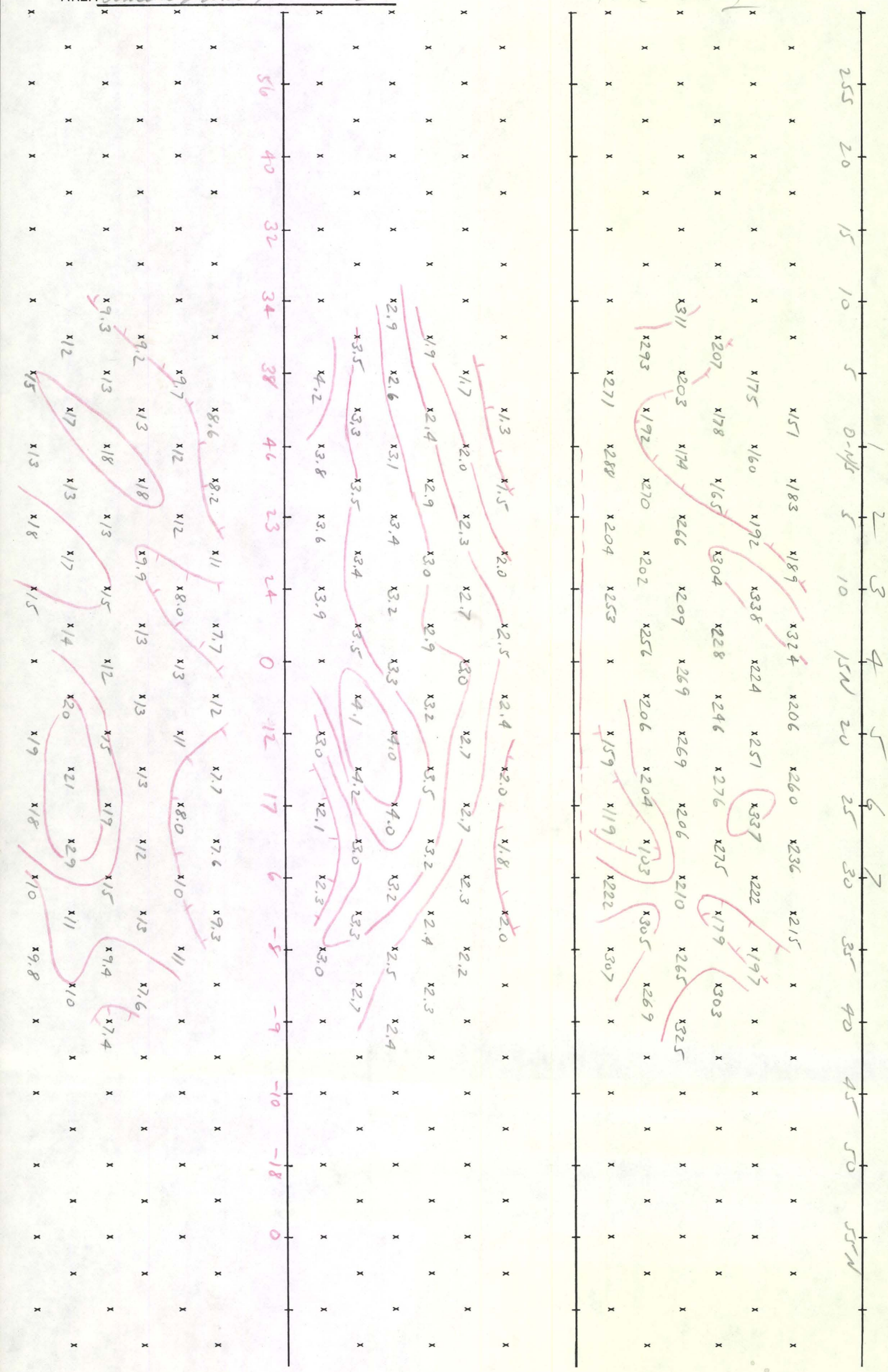


JOB# 964 LINE# 5 SP 1 a = 500' LOOKING Bearing N-S

CLIENT Kalium Chemicals Limited DATE Sept 1974 FREQUENCIES 0.3 & 3.0 Hz

AREA White Tank Mountains

C/2πa 3.0 Hz

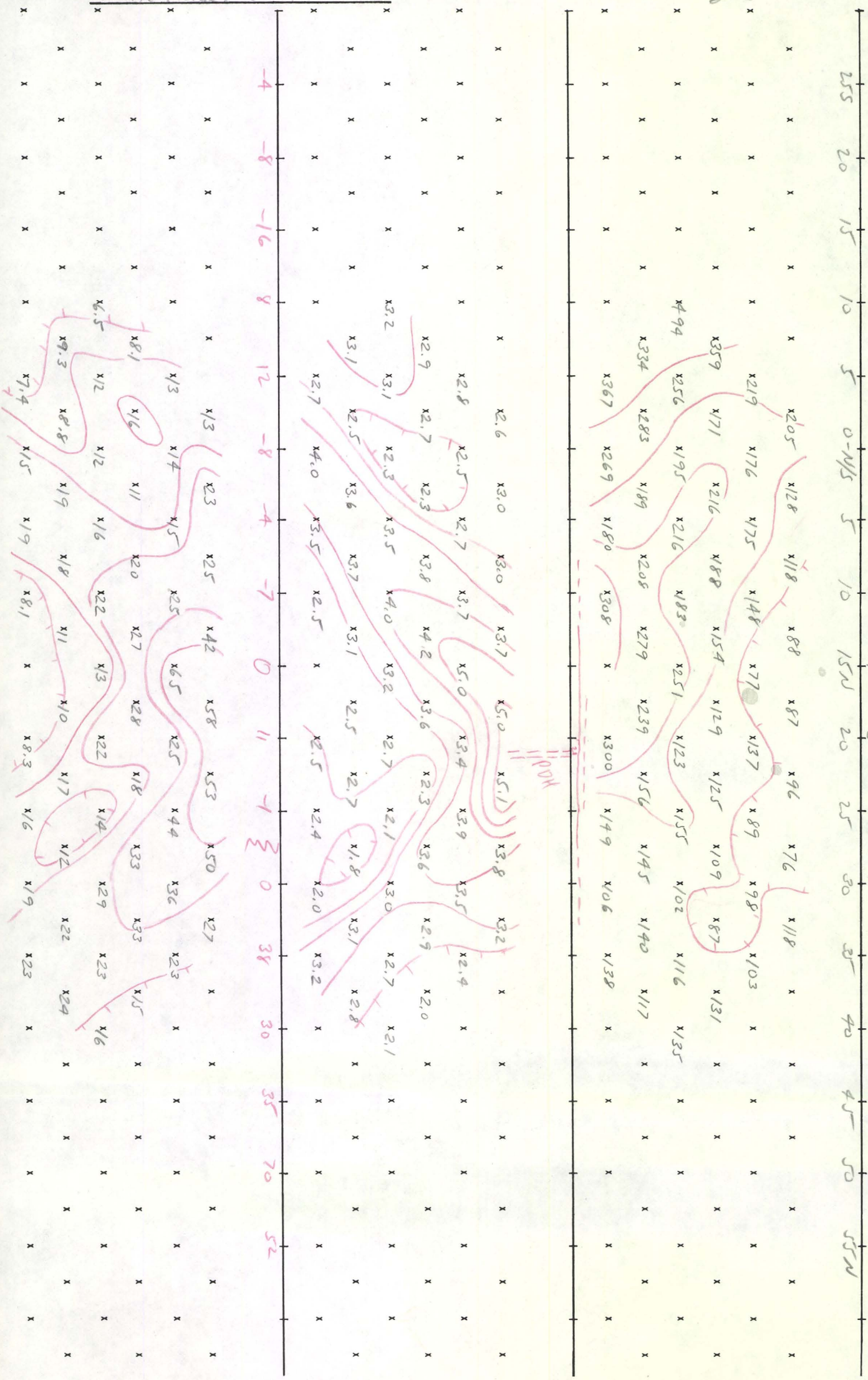


JOB# 964 LINE# 6 SP 1 a = 500' LOOKING Bearing N-S

CLIENT Kalium Chemicals Limited DATE Sept. 1974 FREQUENCIES 0.3 & 3.0 Hz

AREA White Tank Mountains

e/Lπ @ 3.0 hz



I. P. RECEIVER NOTES, JOB No. 964, AREA White Tank Mtns.

LINE 6, HALF N, SP. 1, a = 500, BEARING N 0°

SENDER STA. 00 = ELECTRODE No. 4, DATE 9-13-74

PAGE 1

HEINRICHS GEOEX

SEND		2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	CAL
RECEIVE		0N/S →	5.0N	5.0N	→	10.0N	10.N	→		15.0N	
MULTIPLIER		10	1.0	10	1.0	1.0	10	1.0	1.0	1.0	10
PFE		3.8 3.7	3.7	5.0	5.0	4.4	5.1	3.4	3.6	3.3	10.1
CUR. (AMPS)		4	4	3	4	4	4	3	4	4	2.0
POINT No.											
SEP. (n)											
H. F. MV		238	100.4	176	519	41.9	259	69.5	350	34.6	20.3
DRIFT		+0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	+0.1	+0.2
1.0 PFE	K_n/1000	1.5	6	1.5	6	15	1.5	6	15	30	
0.3 PFE	ρ_{CAL}										
0.1 PFE	PFE_c										
3.0 MV	$\rho/2\pi$	88	148	87	77	155	96	137	129	256	
DRIFT	MCF	42	25	58	65	28	53	25	28	13	
S. P.		+11.0		-12.0							
NOISE											
POT RES.											
CULT & CMTS											

I. P. RECEIVER NOTES, JOB No. 964, AREA White Tank Mtns.

LINE 6, HALF N, SR. 1, a = 500', BEARING N0°

SENDER STA. 00 = ELECTRODE No. 4, DATE 9-13-79

PAGE 2

HEINRICHS GEOEX

SEND	5-6	4-5	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3
RECEIVE	15.0N				20.0N	20.0N				
MULTIPLIER	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
PFE	3.8	3.9	2.3	2.7	2.5	3.2	3.5	3.6	2.1	2.7
CUR. (AMPS)	4	4	3	4	4	4	4	4	3	4
POINT No.										
SEP. (n)										
H. F. MV	205	60.2	25.3	16.7	18.5	31.9	66.1	29.6	15.7	12.1
DRIFT	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.1
1.0 PFE $K_n/1000$	1.5	6	15	30	52.5	1.5	6	15	30	52.5
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c										
3.0 MV $\rho/2\pi$	76	89	125	123	239	118	98	109	155	156
DRIFT MCF	50	44	18	22	16	27	36	33	14	17
S. P.	+37.5					-7.5				
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 964, AREA White Tank Mtns.

LINE 6, HALF N, SP. ____, a = 500', BEARING N 0°

SENDER STA. 00 = ELECTRODE No. 4, DATE 9-15-74

PAGE 3

HEINRICHS GEOEX

SEND	1-2	6-7	5-6	4-5	3-4	2-3	6-7	5-6	4-5	3-4
RECEIVE	25.0N	25.0N	→	→	→	→	30.0N	30.0N	→	35.0N
MULTIPLIER	1.0	1.0	1.0	1.0	0.1	0.1	1.0	1.0	1.0	0.1
PFE	2.5	2.4	2.9	3.0	1.8	2.4	2.0	2.7	3.1	1.92
CUR. (AMPS)	4	4	4	4	3	4	4	4	4	3
POINT NO.										
SEP. (n)										
H. F. MV	14.5	69.9	23.6	13.6	8.42	7.18	35.4	15.7	10.8	3.86
DRIFT	0.0	-0.1	0.0	0.0	+0.1	+0.1	0.0	0.0	+0.1	-0.2
1.0 PFE K_n/1000	84	6	15	30	52.5	84	15	30	52.5	84
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c										
3.0 MV $\rho/2\pi$	300	103	87	102	145	149	131	116	140	106
DRIFT MCF	8.3	2.3	33	29	12	16	15	23	22	19
S. P.		+5.0					+35.0			
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 964, AREA White Tank Mtns.

LINE 6, HALF N, SP. 1, a = 500', BEARING N 0°

SENDER STA. 00 = ELECTRODE NO. 4, DATE 9-13-79

PAGE 4

HEINRICHS GEOEX

SEND		6-7	5-6	4-5							
RECEIVE		35.0	→	400N							
MULTIPLIER		1.0	0.1	0.1							
PFE		2.1	2.8	3.2							
CUR. (AMPS)		4	4	4							
POINT NO.											
SEP. (n)											
H. F. MV		18.3	90.6	66.9							
DRIFT		0.0	0.0	0.0							
1.0 PFE	K_n/1000	30	52.5	84							
0.3 PFE	ρ_{CAL}										
0.1 PFE	PFE_c										
3.0 MV	$\rho/2\pi$	135	117	138							
DRIFT	MCF	16	24	23							
S. P.		-18.0									
NOISE											
POT RES.											
CULT & CMTS											

400' W of Gate

I. P. RECEIVER NOTES, JOB NO. 964, AREA White Tank Mtns.

LINE 6, HALF S, SP. 1, a = 500', BEARING

SENDER STA. 00 = ELECTRODE NO. 4, DATE 9-13-74

PAGE 1

HEINRICHS GEOEX

SEND	SP	SP	3-4	4-5	5-6	6-7	2-3	3-4	4-5	5-6
RECEIVE	0.0/5-5.0S	5.0-10.0S	10.0S	→	→	15.0S	15.0S	→	→	→
MULTIPLIER			10	1.0	1.0	1.0	10	1.0	1.0	1.0
PFE			3.0	3.8	4.0	3.1	3.0	2.7	3.8	4.0
CUR. (AMPS)			3	3	3	3	4	3	4	4
POINT NO.										
SEP. (n)										
H. F. MV			240	75.6	30.8	250	346	88.9	50.9	24.8
DRIFT			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.0 PFE $K_n/1000$			1.5	6	15	30	1.5	6	15	30
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c										
3.0 MV $\rho/2\pi$			118	149	152	246	128	175	188	183
DRIFT MCF			25	26	26	13	23	15	20	22
S. P.	-7.0	+3.5	-4.0				+19.5			
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 969, AREA White Tank Mtns

LINE 6, HALF S, SP. 1, a = 600', BEARING 90°

SENDER STA. 60 N/S = ELECTRODE NO. 4, DATE 9-13-74

PAGE 2

HEINRICHS GEOEX

SEND	6-7	1-2	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4
RECEIVE	20.05	20.05	→	→	→	→	25.05	25.05	→	→
MULTIPLIER	1.0	10	10	1.0	1.0	1.0	1.0	10	1.0	1.0
PFE	3.1	2.6	2.5	2.3	3.5	3.7	2.6	2.8	2.7	2.3
CUR. (AMPS)	4	4	4	3	4	4	4	4	4	4 3?
POINT NO.										
SEP. (n)										
H. F. MV	21.6	554	119	43.8	29.2	16.1	14.9	148	46.3	19.8
DRIFT	+0.1	0.0	0.0	0.0	0.0	+0.1	+0.2	+0.1	0.0	-0.1
1.0 PFE K_n/1000	52.5	1.5	6	15	30	52.5	8.4	6	15	30
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c										
3.0 MV $\rho/2\pi$	279	205	176	216	216	208	308	219	171	195?
DRIFT MCF	11	13	14	11	16	18	8.1	13	16	12?
S. P.		-4.5						-23.0		
NOISE										
POT RES.										
CULT & CMTS										

I.P. RECEIVER NOTES

HEINRICHS GEOEXPLORATION CO. PROJECT 964 White Tank Mtns

LINE 6 BEARING 50° HALF S SP. 1 DATE 9/13/84

SEND	4-5	5-6	1-2	2-3	3-4	4-5	1-2	2-3	3-4	
RECEIVE	→	30.05	30.05			35.05	35.05	→	40.05	
MULT.	1.0	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
PFE	3.6	3.5	2.9	3.1	2.5	4.0	3.2	3.2 3.1	2.7	
	4	4	4	4	3	4	4	4	3	
		8.69?								
H.F. MV	14.6	8.69	97.3	34.6	16.4	13.0	66.8	25.8	13.3	
Drift	0.0	0.0	0.0	0.0	6.0	+0.1	0.0	+0.2	0.0	
	52.5	84	15	30	52.5	84	30	52.5	84	
PFE Avg.	189	180	359	256	283	269	494	334	367	
AC	19	19	8.1	12	8.8	15	6.5	9.3	7.4	
DRIFT										
S.P.			~~+12.5~~				+3.0			
AC NOISE			+8.0							
POT RES.										

I. P. SENDER NOTES

JOB No. 964 AREA WHITE TANK

LINE 6, HALF N, SP. 1, DATE SEPT. 13, 1974

PAGE 1

HEINRICHS GEOEX

SEND	2+3	1+2	3+4	2+3	1+2	4+5	3+4	2+3	1+2	5+6
RECEIVE	0.0 —	5.0 N	5.0 N	—	10.0 N	10.0 N	—	—	15.0 N	15.0 N
RANGE										
VOLTAGE	300	300	280	300	300	340	280	300	300	280
CURRENT	4.0	4.0	3.0	4.0	4.0	4.0	3.0	4.0	4.0	4.0
SEND	4+5	3+4	2+3	1+2	6+7	5+6	4+5	3+4	2+3	1+2
RECEIVE	—	—	—	20.0 N	20.0 N	—	—	—	—	25.0 N
RANGE										
VOLTAGE	340	280	300	300	260	280	340	280	300	300
CURRENT	4.0	3.0	4.0	4.0	4.0	4.0	4.0	3.0	4.0	4.0

FREQUENCIES 3.0 – 0.3

SENDER No. 14672-25

OPERATOR Bob May

RECEIVER No. 20693-R

OPERATOR John Barry

COMMENTS:

I. P. SENDER NOTES

JOB No. 969 AREA WHITE TANK

LINE 6, HALF N, SP. 1, DATE SEPT. 13, 1974

PAGE 2

HEINRICHS GEOEX

SEND	6+7	5+6	4+5	3+4	2+3	6+7	5+6	4+5	3+4	6+7
RECEIVE	25.0N				30.0N	30.0N	—	—	35.0N	35.0N
RANGE										
VOLTAGE	260	280	340	280	300	260	280	340	280	260
CURRENT	4.0	4.0	4.0	3.0	4.0	4.0	4.0	4.0	3.0	4.0
SEND	5+6	4+5								
RECEIVE	—	40.0N								
RANGE										
VOLTAGE	280	340								
CURRENT	4.0	4.0								

FREQUENCIES 3.0 - 0.3

SENDER No. 14672-S

OPERATOR Bob May

RECEIVER No. 20693-R

OPERATOR John Barry

COMMENTS:

I. P. SENDER NOTES

JOB No. 964 AREA WHITE TANK

LINE 6, HALF S, SP. _____, DATE 13 Sept 1974

PAGE 1

HEINRICHS GEOEX

SEND	3-4	4-5	5-6	6-7	[redacted]	2-3	3-4	4-5	5-6	6-7
RECEIVE	10.0 S	←		15.0 S		15.0 S	←		→	20.0 S
RANGE	10	10	10	10		10	10	10	10	10
VOLTAGE	280 V	250 V	200	200		310	280	330 V	280	260
CURRENT	3.0 A	3.0 A	3.0	3.0		4.0	3.0	4.0 A	4.0	4.0
SEND	1-2	2-3	3-4	4-5	5-6	6-7		1-2	2-3	3-4
RECEIVE	20.0 S	←			→	25.0 S		25.0 S	←	
RANGE	10	10	10	10	10	10		10	10	10
VOLTAGE	300V	310	280	330	280	260		300	310	280
CURRENT	4.0 A	4.0	3.0	4.0	4.0	4.0		4.0	4.0	4.0 3?

FREQUENCIES 3.0 & 0.3

SENDER No. 14672-S

OPERATOR Stan Billitz

RECEIVER No. 20693-R

OPERATOR John Barry

COMMENTS:

I. P. SENDER NOTES

JOB No. 964 AREA WHITE TANK

LINE 6, HALF 5, SP. 1, DATE 13 Sept 74

PAGE 2

HEINRICHS GEOEX

SEND	4-5	5-6		1-2	2-3	3-4	4-5			
RECEIVE	→	30.0S		30.0S	←	→	35.0S			
RANGE	10	10		10	10	10	10			
VOLTAGE	330	280		300	310 V	280	330			
CURRENT	4.0	4.0		4.0	4.0 A	3.0 A	4.0			
SEND	1-2	2-3	3-4							
RECEIVE	35.0S	↔	40.0S							
RANGE	10	10	10							
VOLTAGE	300 V	300	280							
CURRENT	4.0 A	4.0 A	3.0							

FREQUENCIES 3.0 & 0.3

SENDER No. 14672-S

OPERATOR Stan Billitz

RECEIVER No. 20693-R

OPERATOR John Barry

COMMENTS:

I. P. RECEIVER NOTES, JOB No. 969, AREA White Tank Mtns.

LINE 5, HALF N, SP. 1, a = _____, BEARING N0°

SENDER STA. 00 1/2 = ELECTRODE No. 4, DATE 9-11-74

PAGE 1

HEINRICHS GEOEX

SEND	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	CAL
RECEIVE	00 1/2 →	5.0N	5.0N	→	10.0N	10.N	→	→	15.0N	
MULTIPLIER	10	10	10	10	1.0	10	10	1.0	1.0	10
PFE	2.5	2.928	2.4	3.0	2.9	2.0	2.7	3.2	3.0	±0.2
CUR. (AMPS)	2	2	3	3	2	3	3	3	2	2.0
POINT No.										
SEP. (n)										
H. F. MV	441	115	421	114	31.6	531	128	50.2	18.3	20.4
DRIFT	0.0	+0.2	0.0	0.0	+0.1	0.0	+0.1	0.0	-0.1	+0.1
1.0 PFE K_n/1000	1.5	6	1.5	6	15	1.5	6	15	30	
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c										
3.0 MV $\rho/2\pi$	374	338	206	224	232	260	251	246	269	
DRIFT MCF	7.7	8.3	12	13	12	7.7	11	13	12	
S. P.	+44.9		+38.5			+22.0				
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 964, AREA

LINE 5, HALF N, SP. 1, a = 500', BEARING N 0°

SENDER STA. 00 = ELECTRODE No. 4, DATE 9-11-74

PAGE 2

HEINRICHS GEOEX

SEND	5-6	4-5	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3
RECEIVE	15.0N				20.0N	20.0N				
MULTIPLIER	10	10	1.0	1.0	1.0	10	10	1.0	1.0	1.0
PFE	1.8	2.7	3.5	4.0	4.1	2.0	2.3	3.2	4.0	4.2
CUR. (AMPS)	.3									all
POINT No.										
SEP. (n)										
H. F. MV	48.4	172	56.3	27.4	12.0	439	113	56.2	21.0	11.9
DRIFT	-0.1	0.0	0.0	-0.1	0.0	0.0	0.0	+0.1	+0.1	+0.1
1.0 PFE K_n/1000	1.5	6	15	30	52.5	1.5	6	15	30	52.5
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c										
3.0 MV $\rho/2\pi$	236	337	276	269	206	215	222	275	206	204
DRIFT MCF	7.6	8.0	13	15	20	9.3	10	12	19	21
S. P.	+19.0					+32.0				
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 964, AREA _____

LINE 5, HALF N, SP. 1, a = 500, BEARING N0°

SENDER STA. 00 = ELECTRODE NO. 4, DATE 9-11-74

PAGE 3

HEINRICHS GEOEX

SEND	1-2	6-7	5-6	4-5	3-4	2-3	6-7	5-6	4-5	3-4
RECEIVE	25.0N	25.0N	→	→	→	30.0N	30.0N	→	→	35.0N
MULTIPLIER	0.1	1.0	1.0	1.0	0.1	0.1	1.0	1.0	1.0	0.1
PFE	3.0	2.2	2.4	3.2	3.13.0	2.1	2.3	2.5	3.3	2.223
CUR. (AMPS)										
POINT NO.										
SEP. (n)										
H. F. MV	5.79	100.7	36.5	21.4	5.98	4.35	61.9	27.0	17.8	8.10
DRIFT	+0.1	0.0	0.0	0.0	+0.2	+0.1	0.0	-0.1	-0.1	-0.2
1.0 PFE K_n/1000	84	6	15	30	52.5	84	15	30	52.5	84
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c										
3.0 MV $\rho/2\pi$	159	197	179	210	103	119	303	265	305	222
DRIFT MCF	19	11	13	15	29	18	7.6	9.4	11	10
S. P.		+32.0					+25.0			
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 964, AREA

LINE 5, HALF N, SR. 1, a = 500', BEARING N 0°

SENDER STA. 00 = ELECTRODE NO. 4, DATE 9-11-74

PAGE 4

HEINRICHS GEOEX

SEND		6-7	5-6	4-5							
RECEIVE		35.0N	→	40.0N							
MULTIPLIER		1.0	1.0	1.0							
PFE		2.4	2.7	3.0							
CUR. (AMPS)											
POINT NO.											
SEP. (n)											
H. F. MV		33.2	15.7	11.2							
DRIFT		0.0	-0.1	0.0							
1.0 PFE	K_n/1000	30	52.5	84							
0.3 PFE	ρ_{CAL}										
0.1 PFE	PFE_c										
3.0 MV	$\rho/2\pi$	325	269	307							
DRIFT	MCF	7.4	10	9.8							
S. P.		+51.0									
NOISE											
POT RES.											
CULT & CMTS											

I. P. RECEIVER NOTES, JOB NO. 964, AREA _____

LINE 5, HALF 5, SP. 1, a = 500', BEARING 50°

SENDER STA. 00 = ELECTRODE NO. 4, DATE 9-11-74

PAGE 1

HEINRICHS GEOEX

SEND			3-4	4-5	5-6	6-7	2-3	3-4	4-5	5-6
RECEIVE	00½-5.05	5.05-10.00	10.05			15.05	15.05			
MULTIPLIER			10	10	1.0	1.0	10	1.0	1.0	1.0
PFE			2.0	2.5	2.9	3.4	1.5	2.9	3.0	3.2
CUR. (AMPS)										
POINT NO.										
SEP. (n)										
H. F. MV			385	173	46.0	27.3	374	97.9	62.1	21.3
DRIFT			0.0	0.0	0.0	-0.1	0.0	0.0	0.0	-0.1
1.0 PFE K_n/1000			1.5	6	15	30	1.5	6	15	30
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c										
3.0 MV $\rho/2\pi$			189	339	225	268	183	192	304	209
DRIFT MCF			11	7.4	13	13	8.2	12	9.9	15
S. P.	+24.5	>1.0	+22.5				-7.6			
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 964, AREA

LINE 5, HALF S, SP. 1, a = 500', BEARING 50°

SENDER STA. 00 = ELECTRODE No. 4, DATE 9-11-74

PAGE 2

HEINRICHS GEOEX

SEND	6-7	1-2	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4
RECEIVE	20.0S	20.0S	→	→	→	→	25.0S	25.0S	→	→
MULTIPLIER	1.0	10	1.0	1.0	1.0	1.0	0.1	1.0	1.0	1.0
PFE	3.5	1.3	2.0	2.9	3.4	3.4	3.9	1.7	2.4	3.2
CUR. (AMPS)										
POINT NO.										
SEP. (n)										
H. F. MV	14.9	30.9	21.8	33.6	27.1	11.8	92.0	39.7	36.5	17.8
DRIFT	+0.1	0.0	0.0	0.0	+0.1	0.0	0.0	-0.1	0.0	0.0
1.0 PFE / K_n/1000	52.5	1.5	6	15	30	52.5	84	6	15	30
0.3 PFE / ρ_{CAL}										
0.1 PFE / PFE_c										
3.0 MV / $\rho/2\pi$	256	151	160	165	266	202	253	176	179	175
DRIFT / MCF	14	8.6	12	18	13	17	15	9.7	13	18
S. P.		-4.0						-2.0		
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 964, AREA White Tank Mtns.

LINE 5, HALF S, SP. 1, a = 500', BEARING S 0°

SENDER STA. 00 = ELECTRODE No. 4, DATE 9-11-74

PAGE 3

HEINRICHS GEOEX

SEND	4-5	5-6	1-2	2-3	3-4	4-5	1-2	2-3	3-4	
RECEIVE	→	30.05	30.05	→	→	35.05	35.05	→	40.05	
MULTIPLIER	1.0	0.1								
PFE	3.635									
CUR. (AMPS)										
POINT No.										
SEP. (n)										
H. F. Mv	15.8	~~6.83~~								
DRIFT	+0.2									
1.0 PFE $K_n/1000$	52.5									
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c										
3.0 MV $\rho/2\pi$	271									
DRIFT MCF	1.3									
S. P.			0.0							
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 964, AREA White Tank Mtns.

LINE 5, HALF 5, SP. 1, a = 500', BEARING 50°

SENDER STA. 40 = ELECTRODE NO. 4, DATE 9-12-74

PAGE 1

HEINRICHS GEOEX

SEND	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5	
RECEIVE	25.0S				30.0S	30.0S			35.0S	
MULTIPLIER	1.0	1.0	1.0	1.0	0.1	1.0	1.0	1.0	1.0	
PFE	1.6	2.3	3.0	3.6	3.6	1.9	2.6	3.3	3.8	
CUR. (AMPS)										
POINT NO.										
SEP. (n)										
H. F. MV	88.9	36.2	17.6	15.7	7.44	42.3	20.7	11.2	10.5	
DRIFT	0.0	0.0	0.0	0.0	+0-0.1	0.0	0.0	0.0	0.0	
1.0 PFE $K_n/1000$	6	15	30	52.5	84	15	30	52.5	84	
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c										
3.0 MV $\rho/2\pi$	174	177	173	269	204	207	203	192	288	
DRIFT MCF	9.2	13	17	13	18	9.2	13	17	13	
S. P.	-12.0					+7.5				
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 964, AREA White Tank Mtns.

LINE 5, HALF S, SR 1, a = 500', BEARING ∠ 0°

SENDER STA. 00 = ELECTRODE No. 4, DATE 9-12-74

PAGE 2

HEINRICHS GEOEX

SEND		1-2	2-3	3-4							CAL
RECEIVE		35.05 →		40.0							
MULTIPLIER		1.0	1.0	0.1							10
PFE		2.9	3.5	4.2							±0.1
CUR. (AMPS)											2.0
POINT No.											
SEP. (n)											
H. F. Mv		31.7	17.1	9.88							204
DRIFT		0.0	0.0	0.0							+0.1
1.0 PFE	K_n/1000	30	52.5	84							
0.3 PFE	ρ_{CAL}										
0.1 PFE	PFE_c										
3.0 MV	$\rho/2\pi$	311	293	271							
DRIFT	MCF	9.3	12	15							
S. P.		+16.5									
NOISE											
POT RES.											
CULT & CMTS											

I. P. SENDER NOTES

JOB No. 964 AREA WHITE TANK

LINE 5, HALF N, SP. 1, DATE 9/11/74

PAGE 1

HEINRICHS GEOEX

SEND	2+3	1+2	3+4	2+3	1+2	4+5	3+4	2+3	1+2	5+6
RECEIVE	0.0 —	5.0N	5.0N	—	10.0N	10.0N	—	—	15.0N	15.0N
RANGE										
VOLTAGE	200	240	260	320	260	260	260	320	260	260
CURRENT	2.0	2.0	3.0	3.0	2.0	3.0	3.0	3.0	2.0	3.0
SEND	4+5	3+4	2+3	1+2	6+7	5+6	4+5	3+4	2+3	1+2
RECEIVE	—	—	—	20.0N	20.0N	—	—	—	—	25.0N
RANGE										
VOLTAGE	260	260	320	260	300	260	260	260	320	380
CURRENT	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0

FREQUENCIES 3.0 - 0.3

SENDER No. 14672-5

OPERATOR Bob Mon

RECEIVER No. 20693-A

OPERATOR John Barry

COMMENTS:

I. P. SENDER NOTES

JOB No. 964 AREA WHITE TANK

LINE 5, HALF N, SP. 1, DATE 9/11/74

PAGE 2

HEINRICHS GEOEX

SEND	6+7	5+6	4+5	3+4	2+3	6+7	5+6	4+5	3+4	
RECEIVE	25.0N	—	—	—	30.0N	30.0N	—	—	35.0N	
RANGE										
VOLTAGE	300	260	260	260	320	300	260	260	260	
CURRENT	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	
SEND	6+7	5+6	4+5							
RECEIVE	35.0N	—	40.0N							
RANGE										
VOLTAGE	300	260	260							
CURRENT	3.0	3.0	3.0							

FREQUENCIES 3.0 - 0.3

SENDER No. 14672 - S

OPERATOR Bob May

RECEIVER No. 20693 R

OPERATOR John Barry

COMMENTS:

I. P. SENDER NOTES

JOB No. 964 AREA WHITE TANK

LINE 5, HALF 5, SP. 1, DATE 9-11-74

PAGE 3

HEINRICHS GEOEX

SEND	3-4	4-5	5-6	6-7	2-3	3-4	4-5	5-6	6-7	
RECEIVE	10.0S	→	→	15.0S	15.0S	→	→	→	20.0S	
RANGE	10	10	10	10	10	10	10	10	10	
VOLTAGE	250 V	250	260 V	300	320	250	250	260 V	300	
CURRENT	3.0 A	3.0 A	3.0 A	3.0 A	3.0	3.0	3.0	3.0 A	3.0	
SEND	1-2	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5
RECEIVE	20.0S	→	→	→	→	25.0S	25.0S	→	→	→
RANGE	10	10	10	10	10	10	10	10	10	
VOLTAGE	350 V	320 V	250 V	250 V	260	300 V	350	320 V	250 V	250 V
CURRENT	3.0 A	3.0 A	3.0 A	3.0 A	3.0	3.0 A	3.0	3.0 A	3.0 A	3.0 A

FREQUENCIES 3.0 & 0.3

SENDER No. 14672-S

OPERATOR Stan Billitz

RECEIVER No. 20693-A

OPERATOR John Barry

COMMENTS:

I. P. SENDER NOTES

JOB No. #964 AREA WHITE TANK

LINE 5, HALF S, SP. 1, DATE 9-11-74

PAGE 4

HEINRICHS GEOEX

SEND	5-6	5-6	1-2							
RECEIVE	→	30.0S	30.0S							
RANGE	10	10	10							
VOLTAGE	260V	340V	350							
CURRENT	3.0A	4.0A	3.0A							
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES

SENDER No.

OPERATOR

RECEIVER No.

OPERATOR

COMMENTS:

I. P. SENDER NOTES

JOB NO. 964 AREA WHITE TANK

LINE 5, HALF S, SP. 1, DATE 9-12-74

PAGE 5

HEINRICHS GEOEX

SEND	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5	
RECEIVE	25.0 S	←		→	30.0 S	30.0 S	←	→	35.0 S	
RANGE	10	10	10	10	10	10	10	10	10	
VOLTAGE	340 V	320	240	240	240 V	340 V	320 V	240	240	
CURRENT	3.0 A	3.0 A	3.0	3.0	3.0 A	3.0	3.0 A	3.0	3.0	
SEND	1-2	2-3	3-4							
RECEIVE	35.0 S	← →	40.0 S							
RANGE	10	10	10							
VOLTAGE	340 V	310 V	240 V							
CURRENT	3.0 A	3.0 A	3.0 A							

FREQUENCIES 3.0 & 0.3

SENDER NO. 14672-S

OPERATOR Stan Billitz

RECEIVER NO.

OPERATOR John Barry

COMMENTS:

I. P. RECEIVER NOTES, JOB No. 964, AREA White Tank Mtn.

LINE 4, HALF S, SP. 1, a = 500', BEARING S 0°

SENDER STA. 00 = ELECTRODE No. 4, DATE 9-9-74

PAGE 1

HEINRICHS GEOEX

SEND			3-4	4-5	5-6	6-7	2-3	3-4	4-5	5-6
RECEIVE	0.-5.0S	5.0-10.0S	10.0S	→	→	15.0S	15.0S	→	→	→
MULTIPLIER			10.0	1.0	1.0	1.0	10.0	1.0	1.0	1.0
PFE			2.0	5.2	5.0	4.0	2.1	4.0	5.0	6.0
CUR. (AMPS)	3 →	all		4.2?						
POINT No.										
SEP. (n)										
H. F. MV			180	40.0	22.0	16.0	170.0	51.0	16.0	11.0
DRIFT			0.0	+1.0?	0.0	0.0	0.0	0.0	0.0	-0.1
1.0 PFE K_n/1000			1.5	6.1	15	30	1.5	6	15	30
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c										
3.0 MV $\rho/2\pi$			88	78?	108	157	83	100	78	108
DRIFT MCF			23	66?	46	26	25	40	64	56
S. P. −	64.0	+60.0	-9.0				-4.0			
NOISE										
POT RES.										
CULT & CMTS										

I.P. RECEIVER NOTES

PAGE

HEINRICHS GEOEXPLORATION CO. PROJECT 964

LINE 4 BEARING 50° HALF S SP. 1 DATE 9/10/74

SEND	6-7									
RECEIVE	20.05									
MULT.	0.1									
PFE	5.0									
	9.3									
	52.5									
	160									
PFE Avg.	31									
AC										
DRIFT	0.0									
S.P.										
AC NOISE										
POT RES.										

I. P. RECEIVER NOTES, JOB No. 964, AREA WHITE TANK

LINE 4, HALF 5, SP. 1, a = 500, BEARING 50°

SENDER STA. 80 = ELECTRODE No. 4, DATE 9-10-74

PAGE 1

HEINRICHS GEOEX

SEND	1-2	2-3	3-4	4-5	5-6	6-7	1+2	2+3	3+4	4+5
RECEIVE	20.05					>25.05	2505-			
MULTIPLIER	10.0	1.0	1.0	0.1	0.1	0.1	1.0	1.0	1.0	0.1
PFE	1.6	3.0	4.1	3.0?	3.0?	2.0?	2.2	3.8	4.2	5.2
CUR. (AMPS)				~5.1	~5.6	4.7?				
POINT NO.										
SEP. (n)										
H. F. MV	250.0	50.0	22.0	6.8	5.6	5.5	67.0	23.0	12.0	5.8
DRIFT	0.0	0.0	0.0	0.0	0.0	+0.1	0.0	0.0	+0.1	0.0
1.0 PFE K_n/1000	1.5	6	15	30	52.5	84	6	15	30	52.5
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c										
3.0 MV $\rho/2\pi$	123	98	108	67	96	151	131	113	118	100
DRIFT MCF	13	31	38	45	31	13	17	34	36	52
S. P.	+30.0						+20.0			
NOISE										
POT RES.										
CULT & CMTS										

I.P. RECEIVER NOTES

PAGE 2

HEINRICHS GEOEXPLORATION CO. PROJECT 964

LINE 4 BEARING 50° HALF S SP. 1 DATE 9-10-79

SEND	5+6	1+2	2+3	3+4	4+5	1+2	2+3	3+4		
RECEIVE	30.05	30.05			35.05	35.05		40.05		
MULT.	0.1	1.0	1.0	1.0	0.1	1.0	1.0	1.0		
PFE	5.1	3.0	4.0	4.5	5.3	3.5	3.9	3.9		
				4.14						
	4.6	38.0	17.0	10.0	5.0	29.0	15.0	10.0		
	0.0	0.0	+0.1	+0.2	0.0	0.0	0.0	-0.1		
	84	15	30	52.5	84	30	52.5	84		
	126	186	167	172	137	284	257	275		
PFE Avg.	40	16	24	26	39	12	15	14		
AC										
DRIFT	0.0									
S.P.		-3.0				-14.0				
AC NOISE										
POT RES.										

I. P. RECEIVER NOTES, JOB NO. 964, AREA White Tank Mtns.

LINE 4, HALF N, SP. 1, a = 500', BEARING N0°

SENDER STA. 00 = ELECTRODE NO. 4, DATE 9-9-74

PAGE 1

HEINRICHS GEOEX

SEND	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	
RECEIVE	00 →	5.0N	~~10N~~	→	15.0N	20.0N			→ 25.0	
MULTIPLIER	10	1.0	10	1.0	1.0	10	1.0	1.0	1.0	
PFE	2.5	4.2	3.1	4.0	5.2	2.9	3.7	3.8	4.7	
CUR. (AMPS)									4.6	
POINT NO.										
SEP. (n)										
H. F. MV	127	49.4	126	41.6	22.9	134	51.6	24.7	16.4	
DRIFT	0.0	0.0	+0.1	0.0	0.0	+0.1	0.0	-0.1	+0.2	
1.0 PFE K_n/1000	1.5	6	1.5	6	1.5	1.5	6	1.5	30	
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_C										
3.0 MV $\rho/2\pi$	62	97	62	82	112	66	101	121	161	
DRIFT MCF	40	43	50	49	46	44	37	31	29	
S. P.	-9.5		+13.5			+10.0				
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 964, AREA White Tank Mtn.

LINE 4, HALF N, SP. 1, a = 500', BEARING N0°

SENDER STA. 00 = ELECTRODE NO. 4, DATE 9-9-74

PAGE 2

HEINRICHS GEOEX

SEND	5-6	4-5	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3
RECEIVE	15.0N				20.0N	20.0N				
MULTIPLIER	10	1.0	1.0	1.0	0.1	10	1.0	1.0	1.0	0.1
PFE	1.8	3.2	3.3	3.2	3.0	1.1	2.2	3.2	3.1	3.1
CUR. (AMPS)										
POINT NO.										
SEP. (n)										
H. F. MV	131	34.8	18.3	10.8	8.49	238	49.7	18.8	13.5	8.75
DRIFT	0.0	0.0	+0.1	0.0	0.0	+0.1	0.0	0.0	0.0	±0.1
1.0 PFE K_n/1000	1.5	6	15	30	52.5	1.5	6	15	30	52.5
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c										
3.0 MV $\rho/2\pi$	64	68	90	106	146	117	97	92	132	150
DRIFT MCF	28	47	37	30	21	9.4	23	35	23	21
S. P.						+5.5				
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 964, AREA White Tank Mtns.

LINE 4, HALF N, SP. 1, a = 500', BEARING N0°

SENDER STA. 00 = ELECTRODE NO. 4, DATE 9-9-74

PAGE 3

HEINRICHS GEOEX

SEND	1-2	6-7	5-6	4-5	3-4	2-3	6-7	5-6	4-5	3-4
RECEIVE	25.0N	25.0N	→	→	→	30.0	30.0N	→	→	35.0N
MULTIPLIER	0.1	1.0	1.0	1.0	0.1	0.1	1.0	1.0	0.1	0.1
PFE	3.7	1.6	2.3	3.0	3.1	3.2	1.6	2.5	3.3	3.2
CUR. (AMPS)	3.6									
POINT NO.										
SEP. (n)										
H. F. MV	7.18	85.7	26.3	12.1	9.88	6.88	~~20~~27.0	10.6	5.66	5.10
DRIFT	+0.2	+0.1	±0.1	0.0	-0.1	0.0	0.0	0.0	0.0	0.0
1.0 PFE K_n/1000	84	6	1.5	30	52.5	84	15	30	52.5	84
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c										
3.0 MV $\rho/2\pi$	197	168	129	119	170	189	132	104	97	100
DRIFT MCF	18	9.5	18	25	18	17	12	24	34	23
S. P.		-7.5					+20.5			
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 964, AREA _____

LINE 4, HALF N, SP. 1, a = 500ft, BEARING N 0°

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

PAGE 4

HEINRICHS GEOEX

SEND	6-7	5-6	4-5							
RECEIVE	35.0Ω	→	10.0Ω							
MULTIPLIER	1.0	0.1	0.1							
PFE	1.5	0.4	3.3							
CUR. (AMPS)		2.5								
POINT NO.										
SEP. (n)										
H. F. MV	5.6	7.22	4.32							
DRIFT	-0.1	-0.2	±0.2							
1.0 PFE / K_n/1000	30	52.5	84							
0.3 PFE / ρ_{CAL}										
0.1 PFE / PFE_c										
3.0 MV / $\rho/2\pi$	153	124	119							
DRIFT / MCF	9.8	20	28							
S. P.	+5.6									
NOISE										
POT RES.										
CULT & CMTS										

I. P. SENDER NOTES

JOB No. 964 AREA White Tank Mtn

LINE 4, HALF S, SP. 1, DATE 9-9-74

PAGE 1

HEINRICHS GEOEX

SEND	3-4	4-5	5-6	6-7	2-3	3-4	4-5	5-6	6-7	1-2
RECEIVE	10.0S →			15.0S	15.0S	→			20.0S	20.0S
RANGE	10	10	10	10	10	10	10	10	10	10
VOLTAGE	200	160	170	300	240	200	170	170	300	280
CURRENT	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
SEND	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5	5-6
RECEIVE	→				25.0S	25.0S	→			30.0S
RANGE	10	10	10	10	10	10	10	10	10	10
VOLTAGE	240	200	160	170	300	280	240	200	160	160
CURRENT	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0

FREQUENCIES 3.0 Hz ± 0.3

SENDER No. 14672-5

OPERATOR John C. Barry

RECEIVER No.

OPERATOR Bob May

COMMENTS:

I. P. SENDER NOTES

JOB No. 964 AREA White Tank Mtns.

LINE 4, HALF 5, SP. 1, DATE 9-10-79

PAGE 2

HEINRICHS GEOEX

SEND	1-2	2-3	3-4	4-5	1-2	2-3	3-4			
RECEIVE	30.05	→		→ 35.05	35.05	→	40.05			
RANGE	10	10	10	10	10	10	10			
VOLTAGE	280	240	200	160	280	240	200			
CURRENT	3.0	3.0	3.0	3.0	3.0	3.0	3.0			
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES 3.0 ± 0.3

SENDER No. 14276-5

OPERATOR JC Barry

RECEIVER No.

OPERATOR Bob May

COMMENTS:

I. P. SENDER NOTES

JOB No. 964 AREA White Tank Mtns

LINE 4, HALF N, SP. 1, DATE 9-9-74

PAGE 1

HEINRICHS GEOEX

SEND	1-2	2-3	3-4	2-3	1-2	4-5	3-4	2-3	1-2	
RECEIVE	0.0 N →	→ 5.0 N	5.0 N	→	10.0 N	10.0 N	→		15.0 N	
RANGE	10	10	10	10	10	10	10	10	10	
VOLTAGE	330	260 V	220 V	260 V	330 V	200 V	220	260	330	
CURRENT	3.0 A	3.0 A	3.0 A	3.0 A	3.0 A	3.0 A	3.0 A	3.0 A	3.0	
SEND	5-6	4-5	3-4	2-3	1-2	6-7	5-6	4-5	3-4	
RECEIVE	15.0 N	→		→	20.0 N	20.0 N	→		25.0 N	
RANGE	10	10	10	10	10	10	10	10	10	
VOLTAGE	190 V	180	220	260	320	330	180	180	210	
CURRENT	3.0	3.0	3.0 A	3.0 A	3.0 A	3.0 A	3.0 A	3.0 A	3.0 A	

FREQUENCIES 3.0 & 0.3 Hz

SENDER No. 14672-5

OPERATOR Stan Billitz

RECEIVER No.

OPERATOR John Barry

COMMENTS:

I. P. SENDER NOTES

JOB No. 964 AREA White Tank Mtns.

LINE 4, HALF N, SP. 1, DATE 9-9-74

PAGE 2

HEINRICHS GEOEX

SEND	2-3	1-2	6-7	5-6	4-5	3-4	2-3	1-2		
RECEIVE	20.0 N ~~15.0 N~~ →	25.0N	25.0	—	—	—	30.0 → N	30.0N		
RANGE	10	10	10	10	10	10	10	10		
VOLTAGE	250V	320 V	320V	180 V	180	210	250V			
CURRENT	3.0A	3.0 A	3.0 A	3.0A	3.0A	3.0 A	3.0A			
SEND	6-7	5-6	4-5	3-4	6-7	5-6	4-5			
RECEIVE	30.0	→		35.0N	35.0N	→	40.0 N			
RANGE	10	10	10	10	10	10	10			
VOLTAGE	310 V	180	175	210	310	175V	175			
CURRENT	3.0	3.0	3.0	3.0	3.0	3.0 A	3.0A			

FREQUENCIES	COMMENTS:
SENDER No.	
OPERATOR	
RECEIVER No.	
OPERATOR	

I. P. RECEIVER NOTES, JOB NO. 964, AREA White Tank Mtn

LINE 3, HALF N, SP. 1, a = 1000', BEARING N0°

SENDER STA. 00 = ELECTRODE NO. 4, DATE 9-6-74

PAGE 1

HEINRICHS GEOEX

SEND	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	CAL.
RECEIVE	00 →	1.0N	1.0N	→	2.0N	2.0N	→		3.0N	
MULTIPLIER	10	1.0	1.0	1.0	1.0	10	1.0	1.0	1.0	10
PFE	2.7	2.8	3.7	3.7	3.7	3.9	3.5	3.6	3.6	
CUR. (AMPS)	3	2	3	3	2	3	3	3	2	-0.2
POINT NO.										
SEP. (n)										
H. F. MV	159	36.5	102.8	50.6	19.6	112	37.6	27.4	11.9	205
DRIFT	0.0	0.0	0.0	+0.1	-0.1	0.0	0.0	+0.1	0.0	+0.1
1.0 PFE K_n/1000	3	12	3	12	30	3	12	30	60	
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	2.9	3.0	3.9	3.9	3.9	4.1	3.7	3.8	3.8	
3.0 MV $\rho/2\pi$	155	214	100	197	287	109	147	267	348	
DRIFT MCF	19	14	39	20	14	38	25	14	11	
S. P.	-45.9		+20.8			-7.5				
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. _____, AREA _____

LINE 3, HALF N, SP. _____, a = _____, BEARING _____

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

PAGE 2

HEINRICHS GEOEX

SEND	5-6	4-5	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3
RECEIVE	3.0N →				4.0N	4.0N				→
MULTIPLIER	10	1.0	1.0	1.0	0.1	10	1.0	1.0	1.0	1.0
PFE	3.9	4.7	4.1	4.2	4.4	2.6	3.9	4.2	3.5	3.4
CUR. (AMPS)	3	3	3	3	2	3	3	3	3	3
POINT NO.										
SEP. (n)										
H. F. MV	111.0	43.6	21.6	17.8	8.12	146.0	39.0	21.4	12.9	11.3
DRIFT	+0.1	0.0	-0.1	0.0	-0.1	-0.1	+0.1	0.0	+0.1	+0.2
1.0 PFE $K_n/1000$	3	12	30	60	105	3	12	30	60	105
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	4.1	4.9	4.3	4.4	4.6	2.8	4.1	4.4	3.7	3.5
3.0 MV $\rho/2\pi$	108	170	211	347	416	142	152	209	252	386
DRIFT MCF	38	29	20	13	11	20	27	21	15	9.1
S. P.	+4.2					-14.0				
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 964, AREA White Tank Mtn

LINE 3, HALF N, SP. 1, a = 1000', BEARING N 0°

SENDER STA. 00 = ELECTRODE NO. 4, DATE 9-6-74

PAGE 3

HEINRICHS GEOEX

SEND	1-2	6-7	5-6	4-5	3-4	2-3	6-7	5-6	4-5	3-4
RECEIVE	5.0N	5.0N				6.0N	6.0N			7.0N
MULTIPLIER	0.1	1.0	1.0	1.0	0.1	0.1	1.0	1.0	0.1	0.1
PFE	3.5	2.9	4.0	4.3	3.5	3.4	3.2	4.4	4.4	3.7
CUR. (AMPS)	2	3	3	3	3	3	3	3	3	3
POINT NO.										
SEP. (n)		47.1								
H. F. MV	5.31	~~46.5~~	19.1	12.7	8.32	76.8	23.0	12.2	2.86	6.51
DRIFT	-0.2	0.0	+0.2	0.0	0.0	-0.2	-0.1	+0.1	0.0	-0.1
1.0 PFE K_n/1000	168	12	30	60	105	168	30	60	105	168
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	3.9	3.1	4.1	4.5	3.7	3.7	3.4	4.6	4.6	3.9
3.0 MV $\rho/2\pi$	435	184	186	248	284	420	224	238	303	356
DRIFT MCF	9.0	17	22	18	13	8.8	15	19	15	11
S. P.		+8.0					-14.0			
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 964, AREA White Tank Mtn,

LINE 2, HALF N, SR. 1, a = 1000', BEARING N 0°

SENDER STA. 00 = ELECTRODE NO. 4, DATE 9-4-74

PAGE 4

HEINRICHS GEOEX

SEND		6-7	5-6	4-5							
RECEIVE		7.0N ←	→	8.0N							
MULTIPLIER		1.0	0.1	0.1							
PFE		3.4	4.3								
CUR. (AMPS)		3	3	3							
POINT NO.											
SEP. (n)											
H. F. MV		12.3	7.46	5.89							
DRIFT		0.0	±0.1								
1.0 PFE	K_n/1000	60	105	168							
0.3 PFE	ρ_{CAL}										
0.1 PFE	PFE_c	3.6	4.5	—							
3.0 MV	$\rho/2\pi$	240	255	322							
DRIFT	MCF	1.5	18	—							
S. P.		+7.5									
NOISE											
POT RES.											
CULT & CMTS											

I. P. RECEIVER NOTES, JOB NO. 964, AREA White Tank Mtn.

LINE 3, HALF S, SP. 1, a = 1000', BEARING 50°

SENDER STA. 00 = ELECTRODE NO. 4, DATE 9-7-74

PAGE 1

HEINRICHS GEOEX

SEND			3-4	4-5	5-6	6-7	2-3	3-4	4-5	5-6
RECEIVE	0 N/S-1.05	1.05-2.0	2.05			3.05	3.05			
MULTIPLIER			10	1.0	1.0	1.0	10	1.0	1.0	1.0
PFE			2.3	2.7	3.9	3.5	2.0	2.7	3.0	4.0
CUR. (AMPS)			3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
POINT NO.										
SEP. (n)										
H. F. MV			206	53.0	29.4	17.8	236	76.7	37.0	23.1
DRIFT			0.0	0.0	0.0	+0.1	0.0	0.0	0.0	+0.2
1.0 PFE K_n/1000			3	12	30	60	3	12	30	60
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c			2.4	2.8	4.0	3.6	2.1	2.8	3.1	4.0
3.0 MV $\rho/2\pi$			201	226	287	347	279	299	361	451
DRIFT MCF			12	12	14	10	7.5	9.4	8.6	8.9
S. P.	-3.3	-24.6	+4.0				-3.5			
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 964, AREA White Tank Mtns.

LINE 3, HALF 5, SP. 1, a = 1000', BEARING S 0°

SENDER STA. 00 = ELECTRODE NO. 4, DATE 9-7-74

PAGE 2

HEINRICHS GEOEX

SEND	6-7	1-2	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4
RECEIVE	4.05	4.05	→	→	→	→	5.05	5.05	→	→
MULTIPLIER	1.0	10.0	1.0	1.0	1.0	1.0	0.1	1.0	1.0	1.0
PFE	3.7	1.6	2.5	2.9	3.1	4.0	2.9	2.2	2.8	3.2
CUR. (AMPS)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
POINT NO.										
SEP. (n)										
H. F. MV	14.7	283	75.5	30.1	17.4	11.5	45.9	91.8	41.7	20.5
DRIFT	+0.1	0.0	+0.1	0.0	+0.1	+0.1	+0.4	-0.2	0.0	-0.1
1.0 PFE $K_n/1000$	105	3	12	30	60	105	168	12	30	60
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	3.8	1.7	2.6	3.0	3.2	4.1	2.8	2.4	2.9	3.3
3.0 MV $\rho/2\pi$	502	276	295	294	340	393	251	358	407	400
DRIFT MCF	7.6	6.2	8.8	10	9.4	10	11	6.7	7.1	8.2
S. P.		+34.0						+4.5		
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 964, AREA White Tank Mtn 3.0 ± 0.3 PAGE 3

LINE 3, HALF S, SP. 1, a = 1000', BEARING S 0°

SENDER STA. 00 = ELECTRODE NO. 4, DATE 9-7-74

HEINRICHS GEOEX

SEND	4-5	5-6	1-2	2-3	3-4	4-5	1-2	2-3	3-4	CAL
RECEIVE	→	6.05	6.05	→		→ 7.05	7.05	→	8.05	
MULTIPLIER	1.0	0.1	1.0	1.0	1.0	0.1	1.0	1.0	0.1	1.0
PFE	3.3	4.1	2.2	2.7	3.0	3.0	2.5	~~[illegible]~~	3.2	±0.1
CUR. (AMPS)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.0
POINT NO.								3.0		
SEP. (n)										
H. F. MV	13.3	92.4	40.3	23.95	13.4	9.31	24.2	16.1	9.68	20.5
DRIFT	0.0	+0.1	0.0	0.0	±0.1	±0.2	0.0	0.0	0.0	+0.2
1.0 PFE K_n/1000	105	168	30	60	105	168	60	105	168	~0.1
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	3.4	4.2	2.3	2.8	3.1	3.1	2.6	3.1	3.3	
3.0 MV $\rho/2\pi$	454	505	393	467	458	509	472	550	529	
DRIFT MCF	7.5	8.3	5.8	6.0	6.8	6.1	5.5	5.6	6.2	
S. P.			-9.0				+16.0			
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. _____, AREA Sonda

LINE 3, HALF _____, SP. _____, a = _____, BEARING _____

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

PAGE _____

HEINRICHS GEOEX

SEND	2+3	1+2	3+4	2+3	1+2	4+5	3+4	2+3	1+2	5+6
RECEIVE	0.0	1.0N	1.0N		2.0N	2.0N			3.0N	3.0N
MULTIPLIER	380	280	300	380	280	300	300	360	280	240
PFE	3.0	2.0	3.0	3.0	2.0	3.0	3.0	3.0	2.0	3.0
CUR. (AMPS)										
POINT NO.	4+5	3+4	2+3	1+2	6+7	5+6	4+5	3+4	2+3	1+2
SEP. (n)				4.0 N	4.0N					5.0N
H. F. MV	300	300	360	280	320	240	300	280	360	280
DRIFT	3.0	3.0	3.0	2.0	3.0	3.0	3.0	3.0	3.0	2.0
1.0 PFE K_n/1000										
0.3 PFE ρ_{CAL}	6+7	5+6	4+5	3+4	2+3	6+7	5+6	4+5	3+4	6+7
0.1 PFE PFE_c	5.0N				6.0N	6.0N			7.0N	7.0N
3.0 MV $\rho/2\pi$	320	240	300	280	360	320	240	300	280	320
DRIFT MCF	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.00	3.0	3.0
S. P.	5+6	4+5								
NOISE		8.0N								
POT RES.	240	300								
CULT & CMTS	3.0	3.0								

I. P. SENDER NOTES

JOB No. 964 AREA White Tank Mtns.

LINE 3, HALF 5, SP. 1, DATE 9-7-74

PAGE 1

HEINRICHS GEOEX

SEND	3+4	4+5	5+6	6+7	2+3	3+4	4+5	5+6	6+7	1+2
RECEIVE	2.0s	—	—	3.0s	3.0s	—	—	—	4.0s	4.0s
RANGE										
VOLTAGE	280	320	240	300	340	280	320	240	300	380
CURRENT	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
SEND	2+3	3+4	4+5	5+6	6+7	1+2	2+3	3+4	4+5	5+6
RECEIVE	—	—	—	—	5.0s	5.0s	—	—	—	6.0s
RANGE										
VOLTAGE	340	280	300	240	300	380	340	280	300	240
CURRENT	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0

FREQUENCIES 3.0 + 0.3

SENDER No. 14672-5

OPERATOR Bob May

RECEIVER No.

OPERATOR

COMMENTS:

I. P. SENDER NOTES

JOB No. 964 AREA White Tank Mtns.

LINE 3, HALF 5, SP. 1, DATE 9-7-74

PAGE 2

HEINRICHS GEOEX

SEND	1+2	2+3	3+4	4+5	1+2	2+3	3+4			
RECEIVE	6.0 s			7.0 s	7.0 s		8.0 s			
RANGE										
VOLTAGE	350	340	280	300	380	340	280			
CURRENT	3.0	3.0	3.0	3.0	3.0	3.0	3.0			
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES 3.0 - 0.3

SENDER No. 14672-5

OPERATOR Bob Magl

RECEIVER No.

OPERATOR

COMMENTS:

I. P. RECEIVER NOTES, JOB No. 964, AREA White Tank Mtns.

LINE 2, HALF 5, SP. 1, a = 1000', BEARING S 0°

SENDER STA. 00 = ELECTRODE No. 4, DATE 10-3-74

PAGE 1

HEINRICHS GEOEX

SEND	5-6	6-7	4-5	5-6	6-7	3-4	4-5	5-6	6-7	CAL.
RECEIVE	00 →	1.05	1.05 →		2.05	2.05	→		3.05	10
MULTIPLIER	1.0	1.0	1.0	0.1	1.0	1.0	0.1	0.1	0.1	
PFE	2.3	2.1	2.2	2.3	2.2	1.9	2.2	2.5	3.0	0.0
CUR. (AMPS)	0.67	2	.67	2.4	2	2	.67	.67	2	~~±0.1~~
POINT No.				.67						2
SEP. (n)	1	2	1	2	3	1	2	3	4	
H. F. MV	29.8	28.3	41.8	7.51	13.1	92.6	10.36	4.28	10.18	203.0
DRIFT	0.0	±0.1	+0.1	-0.2	±0.1	0.0	±0.1	±0.2	-0.4 to 0.1	+0.1
1.0 PFE K_n/1000	23	12	3	12	30	3	12	30	60	
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c										
3.0 MV $\rho/2\pi$	131	167	184	133	194	137	183	189	301	
DRIFT MCF	17	13	12	18	11	14	12	13	10	
S. P.	-28.3		-19.7			+18.9				
NOISE										
POT RES.	5K		6K			3.5K				
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 964, AREA White Tank

LINE 2, HALF S, SP. 1, a = 1000', BEARING S 0°

SENDER STA. 00 = ELECTRODE NO. 4, DATE 9-4-74

PAGE 2

HEINRICHS GEOEX

SEND	0-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5	5-6
RECEIVE	3.0 S	→	→	→	4.0 S	4.0 S	→	→	→	→
MULTIPLIER	1.0	1.0	1.0	1.0	0.1	10	1.0	1.0	1.0	1.0
PFE	1.8	2.2	2.3	2.9	3.1	1.8	~~2.3~~ 1.8	2.5	2.6	3.2
CUR. (AMPS)	2	2	2	2	2	2		3	3	3
POINT NO.							2			
SEP. (n)										
H. F. MV	76.8	30.4	20.3	10.5	8.17	111	28.3	24.7	18.2	10.4
DRIFT	0.0	0.0	+0.1	0.0	+0.1	0.0	-0.1	0.0	0.0	+0.1
1.0 PFE K_n/1000	3	12	30	60	105	3	12	30	60	105
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c										
3.0 MV $\rho/2\pi$	113	180	300	310	423	164	167	243	359	359
DRIFT MCF	16	12	7.7	9.3	7.3	11	11	10	7.2	8.9
S. P.	~~+23.7~~ +23.7 +					~~-22.1~~				
NOISE						-29.0				
POT RES.	2.0 K									
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 964, AREA White Tank Mtn

LINE 2, HALF S, SP. 1, a = 1000, BEARING S0°

SENDER STA. 00 = ELECTRODE NO. 4, DATE 9-4-74

PAGE 3

HEINRICHS GEOEX

SEND		6-7	1-2	2-3	3-4	4-5	5-6	1-2	2-2	3-4	4-5
RECEIVE		5.05	5.05				6.05	6.05			7.05
MULTIPLIER		~~0~~ 0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
PFE		~~1.9~~ 1.9	2.3	2.2	2.5	2.8	3.6	2.8	2.7	2.8	3.1
CUR. (AMPS)		3	3	3	3	3	3.5	3	2.6	3	3
POINT NO.							3		3		
SEP. (n)			~~40.0~~								
H. F. MV		7.11	~~25.7~~	30.2	21.3	18.3	10.9	35.5	17.8	14.65	13.9
DRIFT		±0.2	-0.1	0.0	0.0	+0.1	+0.2	0.0	+0.2	+0.1	0.0
1.0 PFE	$K_n/1000$	168	12	30	60	105	168	30	60	105	168
0.3 PFE	ρ_{CAL}										
0.1 PFE	PFE_c										
3.0 MV	$\rho/2\pi$	392	315	298	420	631	601	350	351	505	767
DRIFT	MCF	4.8	7.3	7.4	6.0	4.4	5.8	8.0	7.4	5.5	4.0
S. P.			-15.5						+3.0		
NOISE											
POT RES.			18K								
CULT & CMTS											

I. P. RECEIVER NOTES, JOB NO. 964, AREA White Tank

LINE T, HALF S, SP. 1, a = 1000', BEARING 50°

SENDER STA. 00 = ELECTRODE NO. 4, DATE 9-4-74

PAGE 4

HEINRICHS GEOEX

SEND	1-2	2-3	3-4								
RECEIVE	7.05	→	8.05								
MULTIPLIER	1.0	1.0	0.1								
PFE	2.7	2.4	1.4								
CUR. (AMPS)	3	2.5	1.6								
POINT NO.		3	3								
SEP. (n)	4	5	6								
H. F. MV	17.3	11.0	9.43								
DRIFT	-0.1	-0.2	-0.4								
1.0 PFE K_n/1000	60	105	168								
0.3 PFE ρ_{CAL}											
0.1 PFE PFE_c											
3.0 MV $\rho/2\pi$	341	379	520								
DRIFT MCF	7.9	6.6	3.1								
S. P.	+242										
NOISE											
POT RES.											
CULT & CMTS											

I. P. RECEIVER NOTES, JOB No. 964, AREA White Tank Mtn

LINE 2, HALF N, SP. 1, a = 1000', BEARING N 0°

SENDER STA. 00 = ELECTRODE No. 4, DATE 9-4-74

PAGE 1

HEINRICHS GEOEX

SEND			4-5	3-4	2-3	1-2	5-6	4-5	3-4	2-3
RECEIVE	00-1.0N	1.0N-2.0N	2.0N			→ 3.0N	3.0N			→
MULTIPLIER			10	1.0	1.0	1.0	10	1.0	1.0	1.0
PFE			1.7	2.1	2.4	3.0	2.0	2.1	2.1	2.2
CUR. (AMPS)			3							→
POINT No.										
SEP. (n)										
H. F. MV			133	41.9	18.8	15.7	152	60.3	25.8	14.2
DRIFT			0.0	0.0	-0.1	0.0	0.0	+0.1	0.0	0.0
1.0 PFE K_n/1000			3	12	30	60	3	12	30	60
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c										
3.0 MV $\rho/2\pi$			131	165	185	309	150	238	254	280
DRIFT MCF			13	13	13	9.7	13	8.8	8.3	7.9
S. P.	-27.4	+6.5	$-1.0				+5.0			
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 964, AREA White Tank Mtn

LINE 2, HALF N, SR. 1, a = 1000', BEARING N 0°

SENDER STA. 00 = ELECTRODE No. 4, DATE 9-4-74

PAGE 2

HEINRICHS GEOEX

SEND	1-2	6-7	5-6	4-5	3-4	2-3	1-2	6-7	5-6	4-5
RECEIVE	4.0N	4.0N	→	→	→	→	5.0N	5.0N	→	→
MULTIPLIER	1.0	10	1.0	1.0	1.0	0.1	0.1	1.0	1.0	1.0
PFE	2.6	1.3	2.1	2.0	2.4	2.4	2.8	1.7	2.3	2.2
CUR. (AMPS)	3	→	→	→	→	→	2.9	→	→	→
POINT NO.										
SEP. (n)										
H. F. MV	12.0	140	40.9	25.7	13.2	8.03	7.25	34.8	15.2	12.0
DRIFT	±0.1	0.0	-0.1	0.0	-0.1	+0.1	-0.3	0.0	+0.1	±0.1
1.0 PFE $K_n/1000$	105	3	12	30	60	105	168	12	30	60
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c										
3.0 MV $\rho/2\pi$	414	138	161	253	260	277	400	137	150	236
DRIFT MCF	6.3	9.4	13	7.9	9.2	8.7	7.3	12	15	9.3
S. P.		-20.2						+20.0		
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 964, AREA White Tank Mtn

LINE 2, HALF N, SR. 1, a = 1000', BEARING N0°

SENDER STA. 00 = ELECTRODE NO. 4, DATE 9-4-74

PAGE 3

HEINRICHS GEOEX

CAL

SEND	3-4	2-3	6-7	5-6	4-5	3-4	6-7	5-6	4-5	
RECEIVE	→	6.0	6.0N	←	→	7.0N	7.0N	→	8.0N	
MULTIPLIER	0.1	0.1	1.0	0.1	0.1	0.1	1.0	0.1	0.1	1.0
PFE	2.6	2.5	1.9	2.0	2.4	2.8	2.4	3.2	3.0	0.2
CUR. (AMPS)	3	2.4							3.1 →	2.0
POINT NO.										
SEP. (n)	5	6	3	4	5	6	4	5	6	
H. F. MV	6.83	4.39	15.6	9.20	8.33	5.31	12.3	8.60	8.19	20.5
DRIFT	±0.1	+0.2	-0.3+0.1	±0.2	-0.1	+0.1	0.0	-0.1	-0.2	±0.1
1.0 PFE K_n/1000	105	168	30	60	105	168	60	105	168	
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c										
3.0 MV $\rho/2\pi$	236	242	154	181	287	293	242	297	452	
DRIFT MCF	11	9.9	12	11	8.4	9.6	9.9	11	6.9	
S. P.			-24.0				-15.0			
NOISE										
POT RES.										
CULT & CMTS										

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PAGE ✓

PROJECT 964 White Tank Mtn.

LINE 2 HALF S SP. 1 DATE 8-3-79

SEND	5-6	6-7	4-5	5-6	6-7	3-4	4-5	5-6	6-7	2-3
RECEIVE	0.0 S	0.0 S	1.0 S	1.0 S	1.0 S	2.0/3.0 S	2.0/3.0 S	2.0/3.0 S	2.0/3.0 S	3.0/4.0 S
RANGE	3	10	3	3	10	10	3	3	10	10
VOLTAGE	600	500	500	575	480	130	460	550	470	240
CURRENT	.66 A	2.0 A	.66 A	.66 A	2.0 A	2.0 A	.66 A	.66 A	2.0 A	2.0 A

SEND	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5	5-6	6-7
RECEIVE	3.0/4.0 S	3.0/4.0 S	3.0/4.0 S	3.0/4.0 S						
RANGE	10									
VOLTAGE	130									
CURRENT	2.0 A									

FREQUENCIES 3.0 0.3

SENDER NO. 14672-S (MK. 7)

OPERATOR Stan Billitz

RECEIVER NO.

OPERATOR

COMMENTS:

3.0 & 0.3

I.P. RECEIVER NOTES

PAGE 2

HEINRICHS GEOEXPLORATION CO. PROJECT _____

LINE 2 BEARING _____ HALF S SP. 1 DATE 2-4-7

SEND	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5	5-6
RECEIVE	3.0/4.0 S	→			3.0/4.0 S	4.0/5.0 S	→	→	→	→
MULT.										
PFE										
RANGE	10	10	10	10	10	10	10	10	10	10
VOLT					180	150	140	120	280	400
Amp.	2.0 A	2.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0
SEND	6-7	1-2	2-3	3-4	4-5	5-6	~~[illegible]~~	1-2	2-3	3-4
REC.	4.0/5.0 S	5.0/6.0 S	→			5.0/6.0 S	~~5.0/6.0 S~~	6.0/7.0 S	→	→
RANGE	10	10	10	10	10	10		10	10	10
VOLT	260 V	220	200	120	280	380		220	200	120
Amp PFE Avg.	3.0 A	3.0	3.0 A	3.0	3.0	3.0		3.0	3.0	3.0
AC										
DRIFT										
S.P.										
AC NOISE										
POT RES.										

I.P. RECEIVER NOTES

PAGE 3

HEINRICHS GEOEXPLORATION CO. PROJECT 964 White Tank Mtns.

LINE 2 BEARING 50° HALF 5 SP. 1 DATE 9-9-79

SEND	4-5	1-2	2-3	3-4						
RECEIVE	6.0/7.0									
MULT.	50.									
PFE										
RANGE	10	10	10	10						
VOLT	280	220	200	120						
AMP	3.0	3.0	3.0A	3.0A						
PFE Avg.										
AC										
DRIFT										
S.P.										
AC NOISE										
POT RES.										

I.P. ~~RECEIVER~~ SENDER NOTES

PAGE

HEINRICHS GEOEXPLORATION CO. PROJECT 964 White Tank Mtn.

LINE 2 BEARING N 0° HALF N SP. 1 DATE 9-3-74

SEND	4+5	3+4	2+3	1+2	5+6	4+5	3+4	2+3	1+2	6+7
RECEIVE	1.0-2.0N				2.0+3.0N					3.0+4.0N
MULT.	280	120	200	220	380	280	120	200	220	260
PFE	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	5+6	4+5	3+4	2+3	1+2	6+7	5+6	4+5	3+4	2+3
						4.0+5.0N				
	380	280	120	200	220	260	380	280	120	200
	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	6+7	5+6	4+5	3+4	6+7	5+6	4+5			
	5.0+6.0N				6.0+7.0N					
PFE Avg.	260	380	280	120	260	380	280			
AC	3.0	3.0	3.0	3.0	3.0	3.0	3.0			
DRIFT										
S.P.										
AC NOISE										
POT RES.										

I.P. RECEIVER NOTES

PAGE 1

HEINRICHS GEOEXPLORATION CO. PROJECT 964 White Jerk Mtns

LINE 1 BEARING N0° HALF N SP. 2 DATE 9-1-74

SEND	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	5-6
RECEIVE	0 N/S →	5.0N	5.0N →		10.N	10.0N	→	→	15.0N	15.0N
MULT.	10	10	10	10	1.0	10	10	1.0	1.0	10
PFE	3.8	4.3	4.2 4.3	5.3	5.0	6.0 6.2	1.9 1.8	4.7	4.1	3.1
I	4									
							7.179			
HF Mv	749	210	833	178	73.2	562	479	67.7	34.4	599
	0.0	0.0	-0.2	0.0	0.0	-0.4	+0.2	-0.1	0.0	0.0
Km	1.5	6	1.5	6	15	1.5	6	15	30	1.5
							263?			
ρa	275	309	306	262	269	207	~~704~~	249	253	218
PFE Avg.	14	14	14	20	19	30	2.6	19	16	14
AC MCF										
DRIFT										
S.P.	0.0		+7.0			0.0				+38.0
AC NOISE										
POT RES.										

I.P. RECEIVER NOTES

PAGE 2

HEINRICHS GEOEXPLORATION CO. PROJECT 964

LINE N1 BEARING N0° HALF N SP. 2 DATE 9-14-74

SEND	4-5	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3	1-2
RECEIVE	→	→	→	20.N	20.0N	→	→	→	→	25.0N
MULT.	10	1.0	1.0	1.0	10	10	1.0	1.0	1.0	1.0
PFE ~~N~~ m	4.0	3.6	3.5	2.9	2.6	3.0	4.1	3.6	3.6	2.9
R ~~d~~ ~~avg~~ I	4 →	→	→	→	→	→	→	→	→	→
HF Mv	187	67.1	29.7	19.0	602	170	76.9	34.5	17.5	12.3
	0.0	0.0	0.0	+0.1	0.0	-0.1	0.0	0.0	-0.1	0.0
	6	15	30	52.5	1.5	6	15	30	52.5	84
	275	247	218	244	221	250	283	254	225	253
PFE Avg.	15	15	16	12	12	12	15	14	16	11
AC										
DRIFT										
S.P.					-16.0					
AC NOISE										
POT RES.										

I.P. RECEIVER NOTES

HEINRICHS GEOEXPLORATION CO. PROJECT 964

LINE 1 BEARING N 0° HALF N SP. 2 DATE 9/14/74

SEND	6-7	5-6	4-5	3-4	2-3	6-7	5-6	4-5	3-4	
RECEIVE	25.0N				30.0N	30.0N			35.0N	
MULT.	1.0	1.0	1.0	1.0	0.1	1.0	1.0	1.0	0.1	
PFE	2.7	3.0	3.8	3.1	3.3	2.6	3.0	3.7	3.2	
I	4									
H.F.Mv.	131	52.9	29.8	14.0	9.34	45.9	23.8	15.9	9.77	
	+0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	6	15	30	52.5	84	15	30	52.5	84	
	193	194	219	206	192	169	175	205	201	
PFE Avg.	14	15	17	15	17	15	17	18	16	
AC										
DRIFT										
S.P.	+16.7					+15.0				
AC NOISE										
POT RES.										

I.P. RECEIVER NOTES

HEINRICHS GEOEXPLORATION CO. PROJECT 964

LINE 1 BEARING No. HALF N+S SP. 2 DATE 8-19-74

SEND	6-7	5-6	4-5				3-4	4-5	5-6	6-7
RECEIVE	35.0N	→	40.0N		0.N/S 5.0	5.0S-10.0S	10.0S	→	→	15.0S
MULT.	1.0	1.0	0.1				10	10	1.0	1.0
PFE	2.5	3.0	3.7				3.4	4.2	4.8	4.0
I	4	—	—				6	—	—	→
HFMV	21.2	12.8	96.2				529	168	57.7	26.4
	0.0	0.0	0.0				0.0	40.1	0.0	0.0
	3.0	52.5	84	South Side			1.5	6	15	30
	156	165	198				194	247	212	194
PFE Avg.	16	18	19				17	17	23	21
AC										
DRIFT										
S.P.	-2.0				-19.0	+14.0	-10.0			
AC NOISE										
POT RES.										

I. P. SENDER NOTES

JOB No. 964 AREA White Tank Mtns

LINE 1, HALF 5, SP. 2, DATE 9-14-74

PAGE 5

HEINRICHS GEOEX

SEND	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5	5-6
RECEIVE	15.05				~~20.05~~	20.05				
RANGE	10	10	1.0	1.0	1.0	10	10	10	1.0	1.0
VOLTAGE PF	2.4	3.3	4.0	4.3	3.6	1.7	2.9	3.4	4.2	4.3
CURRENT MU	586	210	97.6	39.2	20.6	808	244	117	62.8	28.4
SEND Delta	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0
RECEIVE I	4									
RANGE SP	+116.05	6	15	30	52.5	1.5	6	15	30	52.5
VOLTAGE	215	309	359	288	265	297	359	430	462	365
CURRENT	11	11	11	15	14	5.7	8.1	7.9	9.1	12

FREQUENCIES

SENDER No.

OPERATOR

RECEIVER No.

OPERATOR

COMMENTS:

I. P. SENDER NOTES

JOB NO. 964 AREA White Tank Mtns.

LINE 1, HALF 5, SP. 2, DATE 9-14-79

PAGE 6

HEINRICHS GEOEX

SEND	6-7	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5
RECEIVE	25.05	25.05	→	→	→	30.05	30.05	→	→	35.05
RANGE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
VOLTAGE Pre	3.4	2.4	3.6	4.0	4.6	4.5	3.0	3.8	4.0	4.8
CURRENT Mv	16.4	207	84.3	46.9	27.2	13.5	83.1	38.9	24.0	15.1
SEND Drift	0.0	0.0	0.0	0.0	0.0	+0.1	0.0	0.0	0.0	+0.1
RECEIVE F	4	→	→	→	→	→	→	→	→	→
RANGE	84	6	15	30	52.5	84	15	30	52.5	84
VOLTAGE	338	304	310	345	350	278	306	286	309	311
CURRENT Ep	10	+210.9	12	12	13	16	9.8 -14.0	13	13	15

FREQUENCIES	COMMENTS:
SENDER NO.	
OPERATOR	
RECEIVER NO.	
OPERATOR	

I. P. SENDER NOTES

JOB No. 964 AREA White Tank Mtns.

LINE 1, HALF S, SP. 2, DATE 9-14-74

PAGE 7

HEINRICHS GEOEX

SEND	1-2	2-3	3-4							CAL
RECEIVE	35.05	→	40.05							10
RANGE	1.0	1.0	1.0							0.0
VOLTAGE	3.3	4.0	4.4							
CURRENT	62.5	32.2	21.4							20.4
SEND	-0.1	0.0	0.0							+0.1
RECEIVE I	4	→	→							2
RANGE	30	52.5	84							
VOLTAGE	460/7.2	414	441						I@	2.0
CURRENT	-6.5	9.7	10							

FREQUENCIES

SENDER No.

OPERATOR

RECEIVER No.

OPERATOR

COMMENTS:

I. P. SENDER NOTES

JOB No. 964 AREA WHITE TANK

LINE 1, HALF N, SP. 2, DATE

PAGE 1

HEINRICHS GEOEX

SEND	2+3	1+2	3+4	2+3	1+2	4+5	3+4	2+3	1+2	5+6
RECEIVE	0.0	5.0N	5.0N		10.0N	10.0N			15.0N	15.0N
RANGE										
VOLTAGE	340	320	280	340	320	260	280	340	320	~~240~~
CURRENT	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
SEND	4+5	3+4	2+3	1+2	6+7	5+6	4+5	3+4	2+3	1+2
RECEIVE				20.0N	20.0N					25.0N
RANGE										
VOLTAGE	260	280	340	320	240	240	260	280	340	320
CURRENT	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0

FREQUENCIES 3.0 - 0.3

SENDER No. 14672-5

OPERATOR Bob May

RECEIVER No. 20693-R

OPERATOR John Barry

COMMENTS:

I. P. SENDER NOTES

JOB No. 964 AREA WHITE TANK

LINE 1, HALF N, SP. 2, DATE

PAGE 2

HEINRICHS GEOEX

SEND	6+7	5+6	4+5	3+4	2+3	6+7	5+6	4+5	3+4	6+7
RECEIVE	25.0N	—	—	—	30.0N	30.0N	—	—	33.0N	35.0N
RANGE										
VOLTAGE	240	240	260	280	340	240	240	260	280	240
CURRENT	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
SEND	5+6	4+5								
RECEIVE	—	4.0N								
RANGE										
VOLTAGE	240	260								
CURRENT	4.0	4.0								

FREQUENCIES 3.0 - 0.3

SENDER No. 14672-S

OPERATOR Bob May

RECEIVER No. 20693-R

OPERATOR John Barry

COMMENTS:

I. P. SENDER NOTES

JOB No. 964 AREA WHITE TANK

LINE 1, HALF S, SP. 2, DATE 9-14-74

PAGE 3

HEINRICHS GEOEX

SEND	3-4	4-5	5-6	6-7		2-3	3-4	4-5	5-6	6-7
RECEIVE	10.0S	←	→	15.0S		15.0S	←		→	20.0S
RANGE	10	10	10	10		10	10	10	10	10
VOLTAGE	280 V	260V	240V	240		340V	280	260V	240	240
CURRENT	4.0 A	4.0A	4.0	4.0		4.0A	4.0	4.0A	4.0	4.0
SEND	1-2	2-3	3-4	4-5	5-6	6-7		1-2	2-3	3-4
RECEIVE	20.0S	←			→	25.0S		25.0S	←	
RANGE	10	10	10	10	10	10		10	10	10
VOLTAGE	330V	340V	280	260	240	240V		330	340V	280
CURRENT	4.0A	4.0A	4.0	4.0	4.0	4.0A		4.0	4.0A	4.0

FREQUENCIES 3.0 & 0.3 Hz

SENDER No. 14672-S

OPERATOR Stan Billitz

RECEIVER No. 20963-R

OPERATOR John Barry

COMMENTS:

I. P. SENDER NOTES

JOB No. 964 AREA WHITE TANK

LINE 1, HALF S, SP. 2, DATE 9-14-74

PAGE _____

HEINRICHS GEOEX

SEND	4-5	5-6		1-2	2-3	3-4	4-5			
RECEIVE	→	30.0S		30.0S	←	→	35.0S			
RANGE	10	10		10	10	10	10			
VOLTAGE	260 V	240V		330 V	340V	280V	260			
CURRENT	4.0A	4.0A		4.0 A	4.0A	4.0A	4.0A			
SEND	1-2	2-3	3-4							
RECEIVE	35.0S	—	40.0S							
RANGE	10	10	10							
VOLTAGE	330V	340	280V							
CURRENT	4.0A	4.0	4.0A							

FREQUENCIES 3.0 & 0.3 Hz

SENDER No. 14672-S

OPERATOR Stan Billitz

RECEIVER No. 20963-R

OPERATOR John Barry

COMMENTS:

I.P. RECEIVER NOTES

PAGE 1

#964

HEINRICHS GEOEXPLORATION CO. PROJECT White Rock

LINE 1 BEARING N HALF N SP. 1 DATE 8/29

SEND	CAL	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2
RECEIVE		0.0-1.0N →		1.0N-2.0N →			2.0N-3.0N →			
MULT.	10.0	10.0	10.0	10.0	1.0	1.0	10.0	1.0	1.0	1.0
PFE	+0.2	3.1	3.6	~~4.5~~	4.1	3.6-5.0	4.9	3.6-4.4	3.2-6.0	4.8
				~~3.8~~		4.2		4.2	5.1	
Use	0.1			~~3.7~~						
F		3	3	3	3	3	4	3	3	3
K_n		3	12	3	12	30	3	12	30	60
HF-MV	203	305	107	~~348~~	81.0	41.1	365	83.6	26.7	17.1
				~~355~~						
e cal	0.985			358						
PFE Avg.		3.0	3.5	3.4	3.9	4.0	4.7	4.1	5.0	4.8
AC										
DRIFT	+0.1	0.0	0.1	+0.4	~~0.0~~	0.3	+0.2	0.0	0.1	0.0
S.P.		-36.2		+16.7	0.3		+9.4			
AC NOISE	e	300	422	353	319	405	270	329	263	337
POT RES.	MCF	10	8.3	9.6	12	9.9	17	14	19	14

I.P. RECEIVER NOTES

PAGE 2

HEINRICHS GEOEXPLORATION CO. #964

PROJECT White Tank

LINE 1 BEARING N HALF N SP. 1 DATE 8/29

SEND	5-6	4-5	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3
RECEIVE	3.0N - 4.0N				→	4.0N -	5.0N			→
MULT.	10.0	1.0	1.0	1.0	0.1	10.0	1.0	1.0	1.0	0.1
PFE	3.7	3.2	2.1	1.8-2.7	~~1.1-2.2~~	2.5	3.4	2.6	1.8	2.7
				2.6	1.1-3.3					
T	2	4	3	3	2.0 3	2	2	4	3	3
Rn	3	12	30	60	105	3	12	30	60	105
HF MV	185	80.9	~~37.~~ 32.7	13.9	9.93	136	37.1	28.8	15.1	7.33
PFE Avg.	3.5	3.1	2.0	2.5	1.9	2.4	3.3	2.4	1.7	2.6
AC										
DRIFT	0.2	0.1	0.0	0.1	0.0	0.1	0.0	0.2	0.0	0.0
S.P.	+57.8					-24.7				
AC NOISE	273	239	322	274	342	201	219	213	298	253
POT RES.	13	13	6.2	9.1	5.5	12	15	11	5.7	10

I.P. RECEIVER NOTES

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HEINRICHS GEOEXPLORATION CO. PROJECT White Tank

LINE 1 BEARING N HALF N SP. 1 DATE 8/29

SEND	1-2	6-7	5-6	4-5	3-4	2-3	6-7	5-6	4-5	3-4
RECEIVE	→	5.0N-	6.0N	→	→	→	6.0N-	7.0N	→	→
MULT.	0.1	1.0	1.0	1.0	0.1	0.1	1.0	0.1	0.1	0.1
PFE range	1.8-2.9	1.4-3.0	3.0	1.4-3.2	2.0	~~0.5-5.8~~	2.3	2.2-3.3	2.3-4.6	~~1.2-3.~~
most constant	2.8	2.2		2.3		1.6-5.8		2.8	3.2	~~1.2-2.3~~
I	3	2	2	4	3	3.43	2	2	4	1.2-3.7 3
Ka	168	12	30	60	105	168	30	60	105	3.0 168
HF MV	6.09	28.5	14.0	15.0	9.00	4.82	11.3	7.63	9.94	6.45
e	336	168	207	222	310	266	167	226	257	356
MCF	7.7	12	14	9.9	6.1	12	13	12	12	8.4
PFE Avg.	2.6	2.1	2.9	2.2	1.9	3.3	2.2	2.7	3.0	3.0
AC										
DRIFT	+0.2	0.0	-0.1	0.0	0.0	0.0	+0.1	0.0	+0.2	-0.2
S.P.		+9.2					+10.8			
AC NOISE	34/35									
POT RES.	3/2	Section corner 50' W of line, UnGd fence 160' N of 5.0N.								

I.P. RECEIVER NOTES

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PAGE 4

HEINRICHS GEOEXPLORATION CO. PROJECT White Tank

LINE 1 BEARING N HALF N SP. 1 DATE 8/29

SEND	6-7	5-6	4-5							
RECEIVE	7.0N-	8.0N	→							
MULT.	1.0									
PFE										
I	2									
K_a	60	105	168							
HF MV	7.55									
ρ	223									
mcf										
PFE Avg.										
AC										
DRIFT										
S.P.	+83.0									
AC NOISE										
POT RES.										

I. P. RECEIVER NOTES, JOB No. 964 AREA White Tank

LINE 1, HALF N, SP. 1, a = 1000', BEARING N 0°

SENDER STA. 00 = ELECTRODE No. 4, DATE 10-1-74

PAGE 1

HEINRICHS GEOEX

SEND	6-7	5-6	4-5	3-4						
RECEIVE	6.0N	—	—	7.0N						
MULTIPLIER	1.0	1.0	0.1	0.1						
PFE	2.3	3.1								
CUR. (AMPS)										
POINT No.										
SEP. (n)	3	4	5	6						
H. F. MV	16.9	11.5	19.0	1.93						
DRIFT	-0.1	+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.	-40.5									
NOISE										
POT RES.	5K									
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 964 AREA White Tank

LINE 1, HALF 3, SR. 1, a = 1000', BEARING S 180°

SENDER STA. 00 = ELECTRODE No. 4, DATE 10-1-74

PAGE 1

HEINRICHS GEOEX

SEND			3-4	4-5	5-6	6-7	2-3	3-4	4-5	5-6
RECEIVE	00-1.05	1.05-2.05	2.05	→	→	3.05	3.05	→	→	→
MULTIPLIER			10	10	1.0	1.0	10	10	1.0	1.0
PFE			5.6	3.6	4.8	4.3	2.9	2.6	3.6	4.4
CUR. (AMPS)			3	→	→	→	→	→	→	→
POINT NO.										
SEP. (n)			1	2	3	4	1	2	3	4
H. F. MV			519	111	49.3	17.2	360	117	37.9	19.4
DRIFT			+0.2	.0	.0	±0.1	+0.2	-0.1	+0.2	+0.3
1.0 PFE $K_n/1000$			3	12	30	60	3	12	30	60
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c			2.4	3.5	4.7	4.2	2.7	2.5	3.4	4.2
3.0 MV $\rho/2\pi$			511	431	436	339	355	461	373	382
DRIFT MCF			4.7	8.0	11	12	7.6	5.4	9.1	11
S. P.	-11.1	+13.5	+11.2				+26.2			
NOISE										
POT RES.	5K	6.5K	4K				7.5K			
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 964, AREA White Tank

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

SENDER STA. 00 = ELECTRODE NO. 4, DATE 10-1-74

PAGE 2

HEINRICHS GEOEX

SEND	6-7	1-2	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4
RECEIVE	4.05	4.05	→	→	→	→	5.05	5.05	→	→
MULTIPLIER	0.1	1000	1.0	1.0	1.0	0.1	0.1	1.0	1.0	1.0
PFE	2.8	2.4	2.6	2.7	3.0	2.7-3.8	3.2	2.3	2.4	2.1
CUR. (AMPS)	3	→	→	→	→	→	→	→	→	→
POINT NO.										
SEP. (n)	5	1/2	2	3	4	5	6	2	3	4
H. F. MV	9.53	5.05	57.7	32.95	14.6	9.54	5.74	64.8	23.2	17.6
DRIFT	+0.3	0.0	+0.1	+0.1	+0.1	±0.2	±0.2	0.0	−0.1	0.0
1.0 PFE K_n/1000	105	3	12	30	60	105	168	12	30	60
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	2.6	2.3	2.5	2.6	2.9	3.2	3.1	2.2	2.3	2.0
3.0 MV $\rho/2\pi$	294	273	227	325	288	329	317	255	229	347
DRIFT MCF	8.8	8.4	11	8.0	10	10	9.8	8.6	10	5.8
S. P.	~~+16.7~~	+16.7						+21.7		
NOISE										
POT RES.	~~3K~~	3K						6K		
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 964 AREA White Tank

LINE 1, HALF 5, SR. 1, a = 1000', BEARING 50°

SENDER STA. 00 = ELECTRODE NO. 4, DATE 10-1-74

PAGE 3

HEINRICHS GEOEX

SEND	4-5	5-6	1-2	2-3	3-4	4-5	1-2	2-3	3-4	
RECEIVE	→	6.05	6.05	→	7.05	7.05	7.05	→	8.02	
MULTIPLIER	0.1	0.1	1.0	1.0	1.0	0.1	1.0	1.0	1.0	
PFE	2.8	3.2	2.3	2.3	2.0	3.3	2.5	~~1.0~~ 2.1	2.6	
CUR. (AMPS)	3	→								
POINT NO.										
SEP. (n)	5	6	3	4	5	6	4	5	6	
H. F. MV	9.06	6.46	34.2	14.55	13.3	6.29	28.6	13.9	13.4	
DRIFT	±0.2	<0.3	+0.2	+0.1	−0.2	+0.6	0.0	−0.1	+0.4	
1.0 PFE $K_n/1000$	105	168	30	60	105	168	60	105	168	
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	2.7	3.2	2.1	2.2	2.0	2.9	2.4	2.0	2.3	
3.0 MV $\rho/2\pi$	312	356	337	287	459	347	564	479	739	
DRIFT MCF	8.6	9.0	6.2	7.7	4.4	8.4	4.3	4.2	3.1	
S. P.			−15.0			+10.5	+22.7			
NOISE										
POT RES.			3K			15K	2.5K			
CULT & CMTS										

#964

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT White Tank

LINE 1 HALF N SP. 1 DATE 9-29-74

PAGE 1

SEND	2-3	1-2	3-4	4-5 ~~2-3~~	~~3~~ 1-2	4-5	3-4	2-3	1-2	5-6
RECEIVE	00 →	1.0N	1.0N	→	2.0N	2.0N	→	→	3.0N	3.0N →
RANGE	~~4~~10	10	10	10	10	10	10	10	10	10
VOLTAGE	340	320	320	340	320	360	320	340	320	340
CURRENT	3.0	3.0	3.0	3.0	3.0	4.0	3.0	3.0	3.0	2.0
SEND	4-5	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3	1-2
RECEIVE	→	→	→	4.0N	4.0N	→	→	→	→	5.0N
RANGE	10	10	10	10	10	10	10	10	10	10
VOLTAGE	360	320	340	320	360	340	360	320	340	320
CURRENT	4.0	3.0	3.0	3.0	2.0	2.0	4.0	3.0	3.0	3.0

FREQUENCIES 1.0 0.1

SENDER NO. 14276-5

OPERATOR J.C. BARRY

RECEIVER NO.

OPERATOR

COMMENTS:

964

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT White Tank

LINE 1 HALF N SP. 1 DATE 9/29/74

SEND	6-7	5-6	4-5	3-4	2-3	6-7	5-6	4-5	3-4	
RECEIVE	5.0N	→	→	→	6.0N	6.0N	→	→	7.0N	
RANGE	10	10	10	10	10	10	10	10	10	
VOLTAGE	360	340	360	320	340	360	340	360	320	
CURRENT	2.0	2.0	4.0	3.0	3.0	2.0	2.0	4.0	3.0	
SEND	6-7	5-6	4-5							
RECEIVE	7.0N	→	8.0N							
RANGE	10									
VOLTAGE	360									
CURRENT	2.0									

FREQUENCIES 1.0 0.1

SENDER NO. 14276-5

OPERATOR J.C. BARRY

RECEIVER NO.

OPERATOR

COMMENTS:

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT 964 Water Tank

LINE 1 HALF N+S SP. 1 DATE 10/1/79

PAGE 7

SEND	6-7	5-6	4-5	3-4		6-7	5-6	4-5		
RECEIVE	6.0N	→	→	7.0N		7.0N	→	8.0N		
RANGE										
VOLTAGE	260	260	255	280		260	260	255		
CURRENT	4.0	4.0	4.0	4.0		4.0	4.0	4.0		
SEND	3+4	4+5	5+6	6+7	2+3	3+4	4+5	5+6	6+7	
RECEIVE	2.05	—	—	3.05	3.05	—	—	—	4.05	
RANGE										
VOLTAGE	280	260	270	280	3.00	280	240	280	280	
CURRENT	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	

FREQUENCIES 1.0 0.1

SENDER NO. 14672-5

OPERATOR Bob May

RECEIVER NO.

OPERATOR John Barry

COMMENTS: 3 amps! 4 amps No!

I.P. ~~RECEIVER~~ SENDER NOTES

HEINRICHS GEOEXPLORATION CO.

PAGE 2

PROJECT 964 — White Tank Mtns.

LINE 1 BEARING 50° HALF S SP. 1 DATE 8/1/74

SEND	1+2	2+3	3+4	4+5	5+6	6+7	1+2	2+3	3+4	4+5
RECEIVE	~~10.0~~ 4.0 S					~~4.0~~ 5.0 S	~~4.0~~ 5.0 S			
MULT.										
PFE	320	300	280	255	260	260	320	300	280	255
	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	5+6	1+2	2+3	3+4	4+5	1+2	2+3	3+4		
	6.0 ~~52.0~~	6.0 ~~72.0~~			7.0 ~~53.0~~	~~43.0~~		~~14.0~~ 8.0 S		
	260	320	300	280	255	320	300	280		
	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0		
T.X.										
~~PFE Amp.~~	6+7	5+6	4+5	3+4						
AC R.X.	6.0									
DRIFT	280	260		240						
S.P.	4.0	4.0	4.0	4.0						
AC NOISE										
POT RES.										