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ELECTRICAL GEOPHYSICAL SURVEY USING DUAL FREQUEN CY INDUCED POLARIZATION RESISTIVITY AND SELF POTENTIAL

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Squaw Peak Mine Area Yavapai County, Arizona

November 1968

For Phillips Petroleum Co. Minerals Division ELECTRICAL GEOPHYSICAL SURVEY USING DUAL FREQUENCY INDUCED POLARIZATION RESISTIVITY AND SELF POTENTIAL

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Squaw Peak Mine Area Yavapai County, Arizona



CETTOR COULTEST

For

Phillips Petroleum Company Minerals Division

By

Heinrichs Geoexploration Company P. O. Box 5671 Tucson, Arizona 85703 Phone: 623-0578 Area Code: 602

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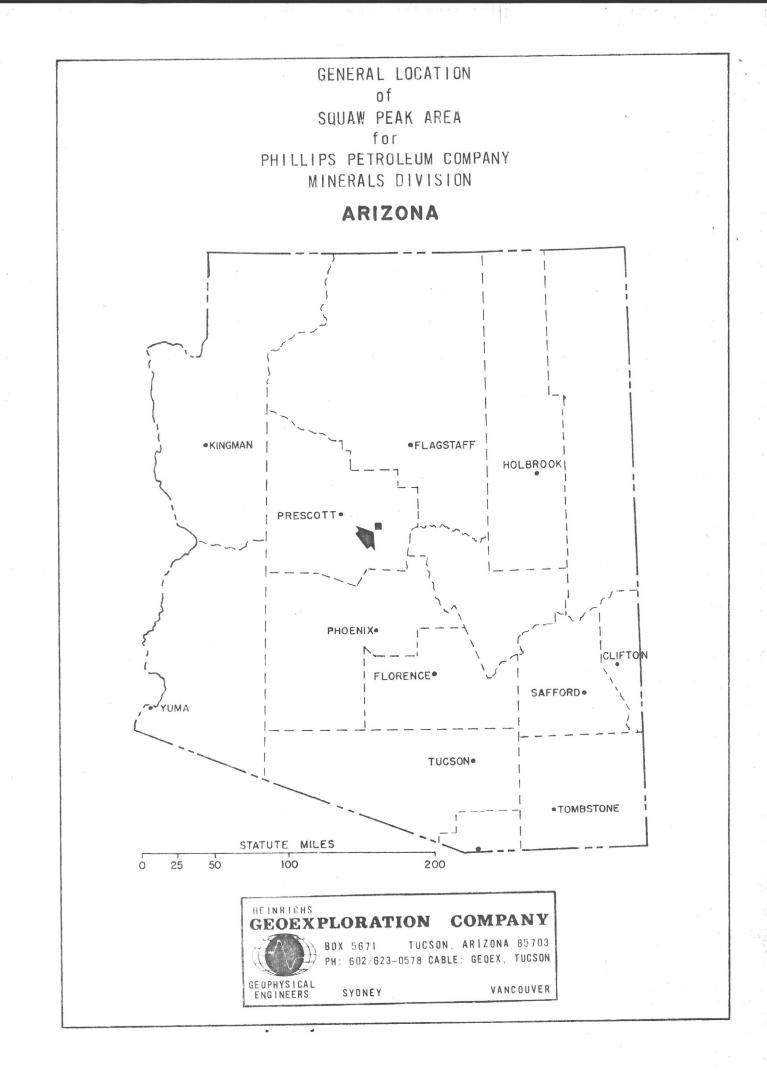
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1 Induced Polarization Interpretation and Location Plan



### INTRODUCTION

At the request of Mr. Robert Forest and on behalf of Phillips Petroleum Company, Mineral Division, Heinrichs Geoexploration Company conducted a preliminary reconnassiance induced polarization (I.P.) survey in the vicinity of the Squaw Peak Mine Area, Yavapai County, Arizona. The field work was completed between November 11 and November 25, 1968.

The dual frequency induced polarization technique was employed as described in the appended "Basis of the Induced Polarization Method", obtaining data from the conventional collinear dipole-dipole electrode configuration. Sending spreads using five electrodes were energized by an upper frequency of either 1.0 or 3.0 Hz and a lower frequency of 0.1 Hz. The data collected was compiled and plotted as outlined in "Basis of the Induced Polarization Method".

A total of five 1000 foot and one 500 foot dipole spreads were used, resulting in 54,000 feet of surface data and 36,500 feet of plotted subsurface data. Two of these spreads were completed using 1.0 Hz and Geoex heavy duty Mark 4 sender and 8 KW generator because of the extremely low resistivity material in the valley. The standard duty Mark 7 and 1.5 KW generator was used on the other 4 spreads. The effective exploration zone for the 1000 foot spreads is between about 200 feet and 1,500 feet deep. The 500 foot spread is effective from 100 feet to a depth of about 750 feet.

The Geoex field personnel who worked on this project were Donald Berglind, Crew Chief; Bryan Terrell and Chris Dahlberg, sender operators; and Mr. Blain Gaul, Richard Martinez, and Severo Chavez were field technicians. Only five of these men were used at any one time. Report and interpretation are by Paul Head and Chris Ludwig with assistance of the Geoex Tucson staff.

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### CONCLUSIONS AND RECOMMENDATIONS

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Probable sulfide caused polarization anomalism was seen in an apparently shallow zone west of the Verde Fault on both Lines 1 and 2. On Line 1 the anomalism lies from about 0 NE/SW to about 15 NE or 20 NE and is strongest between 2.5 NE and 10 NE. The source of anomalism would appear to be somewhat depth limited, the majority of mineralization being within about 500 feet of the surface.

On Line 2, the anomalous zone appears to lie between Stations 0 NE/SW and 10 NE. Since no detailed 500 foot dipole spacing coverage was obtained on this line the interpretation will not be as accurate as on Line 1. However, again the anomalism would appear to be related to a depth-limited source.

Both Line 1 and 2 indicate that the I. P. anomalism is related to a minor resistivity low, perhaps an alteration zone. The I.P. anomalism seems to correlate well with the area of interest outlined on our copy of the 1" = 200' topographic plan((Sheet 5, Squaw Peak Area).

Quantity of sulfide indicated in the most anomalous zone on Line 1 is probably less than one percent by volume (roughly two percent by weight) unless the occurrence was solely confined to or within a very narrow or thin zone (considerably less than 500 feet) in which case, more than one percent sulfide would be necessary to cause this degree of anomalism. If the majority of causitive sulfide is ore sulfide (copper, molybdenum, etc.) rather than pyrite or other non-economic polarizable material, this anomaly could be of potential economic interest and should therefore be further investigated.

Based on the geophysical work to date, drilling in the vicinity of 2.5 NE to 10 NE Line 1 would be recommended except that it appears that DDH-3 in particular and DDH-1 to some extent have already sampled this zone.

If the drill results from DDH-1 and 3 are economically encouraging and it is desired to more completely outline the sulfide zone, additional I.P. coverage on a smaller (say 250 or 300 feet) dipole spacing is recommended. This detailed work should be on a line spacing of about 500 feet to obtain

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relatively complete coverage and on the same line orientation as Line l and 2.

The Verde Fault shows as a very pronounced steeply dipping electrical interface near 25 NE, Lines I and 2, with more conductive material to the NE. No detectible sulfide interpretation appears to relate directly to the fault. Interpretation in the vicinity of the fault and east thereof is somewast difficult due to the strong electromagnetic inductive coupling interference caused by the very low resistivities east of the fault.

The conductive material just east of the fault (probably recent sediments and volcanics) appears to be at least 1,500 feet thick. The apparent resistivity in this area at depth shows no indication of approaching the higher resistivity seen to the west of the fault. Line 3 shows this area to be quite low in resistivity over a considerable north-south distance.

On Line 1 east of 90 NE and Line 2 of 70 NE very low resistivity material is noted. This is likely recent sediments saturated with fairly saline water.

Self potentials show only minor background variation along the lines except for a pronounced step near 20 SW Line 1 that may relate to a rock type change or be artifically caused and is not expected to relate to sulfide.

Further electrical method investigations of the block marginal. Conceivably the depth to pre-mineral rocks could be determined by resistivity, but, magnetics, gravity or even aeismic work might be preferable. Identification of mineralization in pre-mineral rocks at depths below 1,500 feet under such conditions would be most difficult and expensive. Eometimes it is possible to take advantage of drill holes if they can be kept open for effective electrode accessibility. and encouraging factors already on hand.

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#### INTERPRETATION

#### Line 1, Spreads 1 and 3, a = 1000 feet

The resistivity interface at 25.0 NE is the dominant feature observed on this line and is correlated to the Verde Fault. Another resistivity interface may exist at 90.0 NE. probably representing a transition to saline water bearing valley fill. A third anomaly exists in the vicinity of 30.0 to 50.0 SW. Due to insufficient coverage to be sure that full "normal" effects were seen on both sides of the features, it is not fully defined as to position or cause. It is not a single boundary interface, however, and is probably a steeply dipping conductive zone. The Verde Fault is apparently steeply dipping (direction undetermined) and separates moderately resistive rocks (200 to 300 ohm feet) on the west from low resistivity rocks, likely sediments (15 to 5 ohm feet) to the east. The 90.0 NE interface separates the low resistivity material from very low (2 to 1 ohm feet) resistivity saline sediments further east in the valley.

Electromagnetic coupling northeast from the Verde Fault has completely overwhelmed any polarization effects that might be present. There does appear to be valid probable sulfide caused non-coupling anomalism from 0.0 NE/SW to 10.0 NE and possibly to 20.0 NE. This very weak anomaly is associated with a slight near surface apparent resistivity low not related to the fault zone.

The steep S.P. gradient near 30 SW on Spread 1 is probably artifically caused by being too near one of the large aluminum foil sending electrodes undergoing an electrochemical reaction. A rock type change could conceivably cause this gradient, however.

#### Line 1, Spread 2, a = 500 feet

This spread of 500 foot dipoles was recommended to confirm the validity of the very weak frequency effects noted on Spread 1.

Very good general agreement of the 1000 foot dipole and the 500 foot dipole spreads were obtained. A weak anomaly was detected between 2.5 NE to 10.0 NE. The anomaly is not sharp and shows very definite indication of continuing NE 1000 feet

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or more as a very weak zone. The MCF pattern indicates that the cause of the anomaly is most likely to be a sparsely mineralized body not having any great depth extension. Near surface low resistivity pods are defined on the 500 foot dipole which may represent zones of altered rocks.

#### Line 2, Spreads 1 and 2, a = 1000 feet

This line is oriented parallel to Line 1, located as shown on the plan map. The results from this line are much the same as those seen on Line 1. Electromagnetic coupling will account for all high PFE values east of the Verde Fault. A very weak PFE anomaly from 0 NE to perhaps 20.0 NE is of non-coupling origin and has the same general appearance as the anomaly on Line 1.

### Line 3, Spread 1, a = 1000 feet

This is a N-S oriented line lying east of the Verde Fault, entirely in low resistivity material. As a result, the entire length of the line shows strong EM coupling effects. The use of 1.0 Hz as an upper frequency helped ease this problem, but did not eliminate the trouble.

The resistivity data from Line 3 indicates that there are no high or moderate resistivity rocks within 1,500 feet of surface such as those west of the Verde Fault. This also is confirmed by the resistivity results of Lines 1 and 2 which indicate deep alluvium also of the order of plus 1,500 feet.

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Respectfully submitted, HEINRICHS GEOEXPLORATION CO.

Saul a Head

Paul A. Head, Geophysicist

This I hading

Chris S. Ludwig Senior Geophysicist

January 4, 1969 P. O. Box 5671 5964 Tucson, Arizona 85703



PHILLIPS PETROLEUM COMPANY

Minerals Division P. O. Box 2453 Reno, Nevada 89505



September 3, 1968

Mr. Walter E. Heinrichs, Jr. President & General Manager Heinrichs Geoexploration Company P. O. Box 5671 Tucson, Arizona 85703

Dear Mr. Heinrichs:

In your letter of August 30, 1968, you requested additional information on the geology of the Squaw Peak mine.

The mineralization consists almost entirely of chalcopyrite and molybdenite. Pyrite is scarce. Mineralization occurs as disseminations and along fractures. Quartz veinlets are present in some areas and are often mineralized, particularly with molybdenite.

The ore occurs in a stock of diorite and granodiorite which has intruded Precambrian granite. All rocks are probably Precambian in age. Monzonite dikes cut the Precambrian granite around the mineralized stock, but they contain little mineralization.

Biotite is abundant in the mineralized diorite and granodiorite. The monzonite dikes and the granite country rock contain both biotite and hornblende.

Alteration of the mineralized stock is weak. Some of the biotite has been altered to chlorite. Calcite is also present as an alteration product. Sericite is scarce. Alteration has clouded some of the feldspars, but most appear fresh.

You estimated that a preliminary reconnaissance of the area would require about a month's work in the field. For our budgeting purposes we would like to have an estimate of the cost of a one-month program.

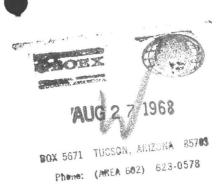
Sincerely,

RTF/bjh



PHILLIPS PETROLEUM COMPANY

Minerals Division P. O. Box 2453 Reno, Nevada 89505



August 26, 1968

Mr. Grover Heinricks Heinricks Geoexploration Company Box 5671 Tucson, Arizona 85703

Dear Mr. Heinricks:

Enclosed is a map of the area at the Squaw Peak Mine near Camp Verde, Arizona, which we discussed on the phone last week. On this map I have outlined the approximate area of mineralization in red pencil.

If you want to send someone to look at the job site, I could fly to Phoenix and go out to Camp Verde with someone during the month of October.

Sincerely,

T. Jacest "T. Jacest """ " R. T. FOREST

RTF/bjh Enc.

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SEND RECEIVE RANGE VOLTAGE CURRENT SEND RECEIVE RANGE	) HEINR 1. F 5-16 240V 2,54 1-2 1-2 10-50	2. SEN 3-4 10-20 160V 2.377	240v 2.517 3-U	2 - 3 20 - 30 280 v 1.5 M 4 - 5	LINE 3-11 160V 2.5R 1-2	24/0v 2.577	HALF 5 7 - 2 7 - 10 700v 7.5 R	2804 1.578 1-5-7	8-L', 1604	TE/2 
SEND RECEIVE RANGE VOLTAGE CURRENT SEND RECEIVE RANGE	) HEINR 1. F 5-16 240V 2,54 1-2	2.3-4 10-20 160V 2.3/7 2-3	2410v 2.517	$\frac{2 - 3}{2 \circ - 3 \sigma}$ $\frac{280 \nu}{1.5 \mu}$ $\frac{4 - 5}{2}$	LINE 3-11 1604 2.58 1-2 50-00	24/0V 2.577 2-3	HALF 5 7-2 700v 7.57 3-4	2 - 3 2 8 0 L 1.5/R 4-5-	8-L', 1604	TE/1 (4. 240 2.5 (2.5
SEND RECEIVE RANGE VOLTAGE CURRENT SEND RECEIVE RANGE VOLTAGE	) HEINR 1. F 2-16 240V 2,57 1-2 1-2 1-2 1-2 1-0 1-0 1-0 1-0 1-0 1-0 1-0 1-0 1-0 1-0	2.3-4 10-20 160V 2.3.17 2-3 190V 1.8A	DER NO 	$2 - 3$ $2 - 3 \sigma$ $2 8 0 \nu$ $1.5 \mu$ $0 - 5$ $1 9 \sigma V$	LINE 3-11 160V 2.5R 1-2 50-00 1.0A	2 4 - 5- 2 2 2 2 2 2 - 3 - - - - - - - - - - - - -	HALF 5 7-2 30-410 7000 1.517 3-4 1300	2802 1.578 4-5-	8-L', 1604	P. TE/1 (4. 2.5 (4. 2.5 (4. 2.5 (4. 2.5)
SEND RECEIVE RANGE VOLTAGE CURRENT SEND RECEIVE RANGE VOLTAGE CURRENT FREQUENC	) HEINR 1. F 2-5 0-16 240V 2,5A 1-2 1-2 1-2 1-2 1-2 1-2 1-2 1-2 1-2 1-2	2.3-4 10-20 160V 2.3.17 2-3 190V 1.8A	DER NO 	2 - 3 2 - 3 2 0 - 3 0 2 80 V 1.5 FA U - 5 	LINE 3-11 160V 2.5R 1-2 50-00 1.0A	2 4 - 5- 2 2 2 2 2 2 - 3 - - - - - - - - - - - - -	HALF 5 7-2 30-410 7000 1.517 3-4 1300	2802 1.578 4-5-	8-L', 1604	TE/1 (4. 240 2.5 (2.5
SEND RECEIVE RANGE VOLTAGE CURRENT SEND RECEIVE RANGE VOLTAGE CURRENT FREQUENC SENDER N OPERATOR	) HEINR 1. F 2-16 2-16 2-16 2-16 2-16 2-16 2-16 2-16	2.5FN .3-4 16-20 	DER NO 	2 - 3 2 - 3 2 0 - 3 0 2 80 V 1.5 FA U - 5 	LINE 3-11 160V 2.5R 1-2 50-00 1.0A	2 4 - 5- 2 2 2 2 2 2 - 3 - - - - - - - - - - - - -	HALF 5 7-2 30-410 7000 1.517 3-4 1300	2802 1.578 4-5-	8-L', 1604	TE/1 (4. 240 2.5 (2.5
SEND RECEIVE RANGE VOLTAGE CURRENT SEND RECEIVE RANGE VOLTAGE CURRENT FREQUENC	) HEINR 1. F 2-5 0-16 240V 2,5A 1-2 1-2 1-2 1-2 1-2 1-2 1-2 1-2 1-2 1-2	2.3-4 10-20 16-20 160V 2.377 2-3 2-3 190V 1.8A 0.10 671-5	DER NO 	2 - 3 2 - 3 2 0 - 3 0 2 80 V 1.5 FA U - 5 	LINE 3-11 160V 2.5R 1-2 50-00 1.0A	2 4 - 5- 2 2 2 2 2 2 - 3 - - - - - - - - - - - - -	HALF 5 7-2 30-410 7000 1.517 3-4 1300	2802 1.578 4-5-	8-L', 1604	TE/1 

RANGE DC 1 DC 2	1.P.R 1 2 2-10NE 1	2 3 10-20NE 10 3.6 3.6 3.4 9.2		23 4 20-30NI			<u>308</u> HALF <u>N</u>	75ESP		PA
RECEIVERANGEDCDCDC3DC4DC5	I.P.R 1 2 1-10,N/E 1.3 4,0 1.7 3.9	2 3 10-20NE 10 3.6 3.6 3.4 9.2		S 20-30NI	LINE			75ESP		
RECEIVE         RANGE         DC         DC	2-10.WE 1 1.3 4.0 1.7 3.9	10-20NE 10 3.8 3.8 3.4 4.2	1	20-30N	23	T	the set of			TE_
RANGE           DC	1 1.3 4.0 1.7 3.9	10	1			1 2	4 5	3 4	23	
DC 1 DC 2 DC 3 DC 4 DC 5	1.7 3.9	3.8 3.6	3.9 28		E		30-40NE			1
DC 2 DC 3 DC 4 DC 5	1.7 3.9	3.4 4.2	3.9 28	10	1	1.1	1	./	-1	10/
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DC 3 DC 4 DC 5	30 3.3		1.9 4.9	30 0.7	43 77	-05 60		5.2 -18	17.1 -12.0	
DC 4 DC 5		2.5 37	314.3		3,9 2,8	-03 55	80-30	7.5-26	-192 200	-105
	THE R. P. LEWIS CO., LANSING MICH.		2,821			1	/	82-35	-150 220	-130
DC 6					1		1		-17.1 245	-14.9
				1	1					
DC 7			1	1	1					
DC 8			1	1					<u> </u>	
DC AVG.			1	+						
AC 1	91.1	129.	22,25	125.	20.2	3.46	27.6	7.10	108	38.
	+0.2		+0.0	1	+0.7	0.0			1.88	1
AC AVG.	1000	10.3	T0-0	0.0	70.1	0.0	0.0	+0.2	0,0	-0.:
	415	-1		+7			1			
AC NOISE			+	1	<u> </u>		+5			
	the second s	.02		-01			-01			×
POT RES.	acr	25K		1K			1A			
				)			)	)	)	PA 5
the Vall		ICHS GE		RATION C					)	PA 3
SEND	I.P.R	RECEIVER	NOTES	<u>}</u>	LINE	2	HALF	<u>75€</u> SP.	) DA	TE
11	I.P.R 4 - 3	ECE I VER	NOTES	5	LINE 4 5	3 4	HALF A		) DA	TE_
RECEIVE	I.P.R 4 <u>5</u> 40-50M	ECE I VER	NOTES	S /·	LINE	3 4	HALF <u>~</u> ~ 3 X 4	25 <u>€</u> SP. 1 2	) DA	TE
RECEIVE RANGE	I.P.R 4 <u>3</u> 40-50M	ECEIVER	NOTES	S 1. 2 .01	4 5 50.69NF	3 4	HALF <u>M</u> 2 3 X 4 - 01	25 SP.	) DA	ТЕ
RECEIVE RANGE DC 1	I.P.R 44 5 40-50M 1 3,7 3,0	ECE I VER	NOTES	1. 2 +01 90 190	4 5 50.69NF 11.6 - 0.9	3 4	HALF M 2 3 X 4 - 01 R00 44	25 <u>€</u> SP. 1 2 -01	) DA	TE
RECEIVE RANGE DC 1 DC 2	I.P.R 44 <u>3</u> 40-som 40-som 7.7 3.0 7.7 3.3	ECE I VER 	NOTES 2 3 ,0/ 6336 10340	1. 2 . 01 . 05 . 01 . 05 . 01 . 05 . 05	4 5 50.60NR 11.6 -0.9 13.0 -13	3 4 •1 140 08	HALF <u>M</u> 2 3 X 4 20:0-4,4 27:6-96	25£SP.	) DA	TE
RECEIVE RANGE DC 1 DC 2 DC 3	I.P.R 44 3 40-50M 40-50M 7.730 2.730 2.730 2.730	ECE I VER 	NOTES 2 3 .0/ 8338 103.0 157-31	1. 2 .01 .01 .01 .01 .01 .01 .01 .01	LINE 4 5 50.69NF .1 11.6 -0.9 13.0 -1.3 13.7-2.7	3 4 •1 14.0 0.9 (4.1 4.1 129 2.	HALF <u>M</u> 2 3 X 4 20:0-44 27:6-9.6 3/2	25 <b>E SP</b> .	) DA	TE_
RECEIVE4RANGE1DC1DC2DC3DC4	I.P.R 40-50M 40-50M 7.730 2.730 2.736 2.736 2.780	ECE I VER - 1 - 1 - 1 1 1 1 2  -  -  -  -  -   -  -     -  -  -  -  -                            -  -  -  -   - -  -  - - - - -  - - - - - -	NOTES 2 3 ,0/ 8338 10340 15:1-31 18:/11,9	1. 2 .01 .01 .0 .19.0 .19.05 .4.9.18.5 .4.21 18.0 .1.18.1	LINE 4 5 50.60NF 11.6 -0.9 13.0 -1.3 13.7 - 2.7 14.8 - 3.9	2 3 4 140 09 (41 4.1 129 8.1 5.2 15.0	HALF M 2 3 X 4 20:0-4.4	25 <b>E SP</b> .	) — DA	TE
RECEIVE     4       RANGE     2       DC     2       DC     3       DC     4       DC     5	I.P.R 40-50M 40-50M 7.730 2.730 2.736 2.736 2.780	ECE I VER 	NOTES 2 3 .01 8,33,8 103.0 15.1-3.1 18.1 18.1 1.9 1.6 1.0	1. 2 . 01 90 19,0 -49 18,5 -421 14,0 2.1 18,1 -12.9 18,2	LINE 50.69NF 	2 3 4 140 08 141 4.1 129 8.1 5.2 15.0 2.9 12.2	HALF M 2 3 X 4 -01 27.6 -9.6 31,2 - 4.8 28.4 -0.4 35.6 - 14.0	25 <b>E SP</b> .	) DA	TE
RECEIVE       4         RANGE       -         DC       1       -         DC       2       -         DC       3       -         DC       4       -         DC       5       -         DC       6       -	I.P.R 40-50M 40-50M 7.730 2.730 2.736 2.736 2.780	ECE I VER 	NOTES 2 3 .01 8338 10340 15:1-31 18:119 18:119 18:119 18:119 18:119 18:119 18:119 18:119 18:119 18:119 18:119 18:119 18:119 18:119 19:119	1. 2 . 01 . 01	LINE 50.69NF 	2 3 4 140 08 141 4.1 129 81 5.2 15.0 2.9 12.2 7.9 8.2	HALF M 2 3 X 4 20:0-4,4 27:6-9.6 31,2-4,8 28:4-10.4 35.6-14.0 31.6-7.6	25 CSP.	) DA	TE
RECEIVE       4         RANGE       2         DC       1         DC       2         DC       3         DC       4         DC       5         DC       6         DC       7	I.P.R 40-50M 40-50M 7.730 2.730 2.736 2.736 2.780	ECE I VER 	NOTES 2 3 .01 8,33,8 103.0 15.1-3.1 18.1 18.1 1.9 1.6 1.0	1. 2 . 01 90 19,0 -49 18,5 -421 14,0 2.1 18,1 -12.9 18,2	LINE 4 5 50.69NF 11.6 -0.9 13.0 -1.3 13.7 - 2.7 14.9 - 3.9 15.6 - 4.2	2 3 4 140 08 141 4.1 129 8.1 5.2 15.0 2.9 12.2 7.9 8.2 9.9 5.0	HALF M 2 3 X 4 20:0-4.4 27:6-9.6 31.2-4.8 28:4-10.4 35.6-14.0 31.6-7.6 28.4-11-2	25 CSP.	) — DA	TE
RECEIVE       4         RANGE       -         DC       1       -         DC       2       -         DC       3       -         DC       4       -         DC       5       -         DC       6       -         DC       7       -         DC       8       -	I.P.R 40-50M 40-50M 7.730 2.730 2.736 2.736 2.780	ECE I VER 	NOTES 2 3 .01 8338 10340 15:1-31 18:119 18:119 18:119 18:119 18:119 18:119 18:119 18:119 18:119 18:119 18:119 18:119 18:119 18:119 19:119	1. 2 . 01 . 01	LINE 4 5 50.69NF 11.6 -0.9 13.0 -1.3 13.7 - 2.7 14.9 - 3.9 15.6 - 4.2	2 3 4 140 08 141 4.1 129 8.1 5.2 15.0 2.9 12.2 7.9 8.2 9.9 5.0	HALF M 2 3 X 4 20:0-4,4 27:6-9.6 31,2-4,8 28:4-10.4 35.6-14.0 31.6-7.6	25 CSP.	) DA	TE
RECEIVE       4         RANGE       -         DC       1       -         DC       2       -         DC       3       -         DC       4       -         DC       5       -         DC       6       -         DC       7       -         DC       8       -         DC       AVG.       -	I.P.R 44 3 40-50M 2.73.0 2.73.6 2.73.6 2.73.6	ECE I VER - 1 - 1 1 1 	NOTES 2 3 .01 833.8 103.0 15.1-3.1 18.1 18.1 18.1 1.6 1.6 2.2 1.0 5.8 5.8 5.8 5.9 5.2	1. 2 . 01 90 19.0 -1.9 18.5 -4.21 14.0 9.1 18.1 12.9 19.2 0.7 16.1 2.4 12.0	LINE 4 5 50.69NR 1.6 -0.9 1.30 -1.3 1.3.7-2.7 1.4.8-3.9 1.5.6 -4.2 1.5.6 -4.2	2 3 4 140 08 141 4.1 129 8,1 5.2 15,0 2.9 8,2 7.9 8,2 1.9 8,2 1.9 5,0 121 3,2	HALF M 2 3 X 4 -01 20:0-4,4 27:6-9.6 31,2-4,8 28.4 -10.4 35.6-14.6 31.6-7.6 28.4-13.2	25 <b>E S P</b> .		TE
RECEIVE       4         RANGE       -         DC       1       -         DC       3       -         DC       3       -         DC       4       -         DC       5       -         DC       6       -         DC       7       -         DC       8       -         DC       AVG.       -	I.P.R 44 3 40-50M 2.7 3.0 2.7 3.0 2.7 3.6 2.7 3.6 2.7 3.6 2.7 3.6 2.7 3.6	ECE I VER - 1 - 1 - 1 - 1 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	NOTES 2 3 .01 8338 103.00 15:1-3.1 18:1/11.9 16 11.0 22 19.5 5.8 5.5 5.8 5.5 5.9 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5	1. 2 .01 .01 .0 .19,0 .10,0 .10	LINE 4 5 50.69NF 11.6 -0.9 13.0 -1.3 13.7 - 2.7 14.9 - 3.9 15.6 - 4.2 2.25	2 3 4 140 08 141 4.1 129 8.1 5.2 15.0 2.9 12.2 7.9 5.2 1.9 5.2 1.0 4	HALF M 2 3 X 4 -01 20:0-4,4 27:6-9.6 31,2-4,8 28:4-10:4 35.6-14.0 31.6-7.6 28:4-11.2 32.4,13.2 -392	25 <b>E S P</b> .		TE
RECEIVE       4         RANGE       7         DC 1       7         DC 3       7         DC 4       7         DC 5       7         DC 6       7         DC 8       7         DC AVG.       4         AC 1       7	I.P.R 44 3 40-50M 2.73.0 2.73.6 2.73.6 2.73.6	ECE I VER - 1 - 1 1 1 	NOTES 2 3 .01 833.8 103.0 15.1-3.1 18.1 18.1 18.1 1.6 1.6 2.2 1.0 5.8 5.8 5.8 5.9 5.2	1. 2 . 01 90 19.0 -1.9 18.5 -4.21 14.0 9.1 18.1 12.9 19.2 0.7 16.1 2.4 12.0	LINE 4 5 50.69NR 1.6 -0.9 1.30 -1.3 1.3.7-2.7 1.4.8-3.9 1.5.6 -4.2 1.5.6 -4.2	2 3 4 140 08 141 4.1 129 8,1 5.2 15,0 2.9 8,2 7.9 8,2 1.9 8,2 1.9 5,0 121 3,2	HALF M 2 3 X 4 -01 20:0-4,4 27:6-9.6 31,2-4,8 28.4 -10.4 35.6-14.6 31.6-7.6 28.4-13.2	25 <b>E S P</b> .	) DA	ТЕ
RECEIVE       4         RANGE       7         DC 1       7         DC 2       7         DC 3       7         DC 4       7         DC 5       7         DC 6       7         DC 8       7         DC 4VG.       7         AC 1       7         AC AVG.       7	I.P.R 44 3 40-50M 2.7 3.0 2.7 3.0 2.7 3.6 2.7 3.6 2.7 3.6 31 8.0 5.4 5 0,0	ECE I VER - 1 - 1 - 1 - 1 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	NOTES 2 3 .01 8338 103.00 15:1-3.1 18:1/11.9 16 11.0 22 19.5 5.8 5.5 5.8 5.5 5.9 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5	1. 2 .01 .01 .0 .19,0 .10,0 .10	LINE 4 5 50.69NR 1.6 -0.9 1.30 -1.3 1.3.7-2.7 1.4.9 -3.9 1.5.6 -4.2 2.2.5 to.3	2 3 4 140 08 141 4.1 129 8.1 5.2 15.0 2.9 12.2 7.9 5.2 1.9 5.2 1.0 4	HALF M 2 3 X 4 -01 20:0-4,4 27:6-9.6 31,2-4,8 28:4-10:4 35.6-14.0 31.6-7.6 28:4-11.2 32.4,13.2 -392	25 <b>E S P</b> .	) DA	TE
RECEIVE       4         RANGE       7         DC 1       7         DC 3       7         DC 4       7         DC 5       7         DC 6       7         DC 8       7         DC AVG.       7         AC 1       7         AC 2       AVG.         S.P.       7	I.P.R 44 3 40-50M 2.7 3.0 2.7 3.0 2.7 3.6 2.7 4.7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	ECE I VER - 1 - 1 - 1 - 1 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	NOTES 2 3 .01 8338 103.00 15:1-3.1 18:1/11.9 16 11.0 22 19.5 5.8 5.5 5.8 5.5 5.9 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5	1. 2 .01 .01 .0 .19,0 .10,0 .10	LINE 4 5 50.69NR 11.6 -0.9 130 -1.3 13.7-2.7 14.9 -3.9 15.6 -4.2 2.25 to.3 - 3	2 3 4 140 08 141 4.1 129 8.1 5.2 15.0 2.9 12.2 7.9 5.2 1.9 5.2 1.0 4	HALF M 2 3 X 4 -01 20:0-4,4 27:6-9.6 31,2-4,8 28:4-10:4 35.6-14.0 31.6-7.6 28:4-11.2 32.4,13.2 -392	25 <b>E S P</b> .	) DA	TE
RECEIVE       4         RANGE       7         DC 1       7         DC 2       7         DC 3       7         DC 4       7         DC 5       7         DC 6       7         DC 8       7         DC 4VG.       7         AC 1       7         AC AVG.       7	I.P.R 44 3 40-5044 -1 3.7 3.0 2.9 3.3 2.7 3.6 21 9.0 5.4 5 0.0 t (2 .0]	ECE I VER - 1 - 1 - 1 - 1 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	NOTES 2 3 .01 8338 103.00 15:1-3.1 18:1/11.9 16 11.0 22 19.5 5.8 5.5 5.8 5.5 5.9 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5	1. 2 .01 .01 .0 .19,0 .10,0 .10	LINE 4 5 50.69NR 1.6 -0.9 1.30 -1.3 1.3.7-2.7 1.4.9 -3.9 1.5.6 -4.2 2.2.5 to.3	2 3 4 140 08 141 4.1 129 8.1 5.2 15.0 2.9 12.2 7.9 5.2 1.9 5.2 1.0 4	HALF M 2 3 X 4 -01 20:0-4,4 27:6-9.6 31,2-4,8 28:4-10:4 35.6-14.0 31.6-7.6 28:4-11.2 32.4,13.2 -392	25 <b>E S P</b> .	) DA	TE

		RICHS GEO P. SEN	DEXPLORA		PRC		208 - HALF_	) 6 } <u>V75</u> F.	) DA	PAGE
SEND	1-2	2-3	1-2	3-41	2-3	1-2	4-5	.36	2-3	1-2
RECEIVE	0-10	10-20		20-30			30-1 40			2.,
RANGE		1				52 			1	
VOLTAGE	4800	2900	4400	130 V	3800	3600	1900	1400	3000	3624
CURRENT	1.0A	1.5A	,75A	2.0A	ZUA	.75A	2.0A	2.0A	8.0A	315 A
SEND	4-5	3-41	2 - 3	/-2	4/-5-	3-11	2-3	1-2	Cal	ca/
RECEIVE	40-50			and the second	50-60				3-4	2-3
RANGE				•						
VOLTAGE	1900	1400	3800	1400	1900	1400	3800	3600	7	2900
CURRENT	2,0A	2.0A	2.0A	.75A	2.0A.	2.012	2.0A	,75,A	1.5 A	1.5A
FREQUEN	NO. 136-	0,10 71 = S		COMMEN		For N.G.	Do-e 5	Not		
OPERATO RECEIVE	1	6681-R	\					•	.7	
OPERATO	R 13						<u>\</u>	and a survey of the second survey of the		

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103 308-68 LINE 2 SPREAD 2 LOOKING N 15 W DATE Nov 23 A= 1000 Port CENTER 60.0 LABEL NE/NE FREQ. 1.0 26 Nov6 8 COUPLING YES RC

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Ant										PAGE
	HEINR	ICHS GE	OFXPLOR	ATION CO	PRO.	IFCT	300	2		
	IPR	ECEIVER	NOTES			_2	HALES	75 HCD	2 04	TE
										IC
SEND	4 5	3 4	4 5	2 3	3 4	4 5	1 2	2 3	3 4	4 5
RECEIVE	GO-SONE	50-40NE		40-30NE			30-20NR			
RANGE	1	/	. /	1	.1	.01	1	. /	. /	.01
DC 1	-0.12.5	1.8 - 0.9	-0.9 4.2	2.0 - 0.1	3.0 0.1	-28.436.0	3,1-12	10.3-5.0	4.8-2.0	7.6 8.4
DC 2	-082.8	1.820.9	-1.34.1		2.9 0.9	-36.0 48.9	3.7-1.2	6.9 -5.9	6.4 .2.3	-188 544
DC 3	-1.0 3.1		-1.5 5.1	~	1.7 1.9	-520 656		8.4-4.8	6.6 -2.5	608 684
DC 4	-1.7 3-9		-1.2 5.0		0.9 0.7	67.6/-64		6.1 -4.0		-37.6 476
DC 5						15.6-17.2		9.7-8.0	8.0 -2.2'	51.2 32.0
DC 6						28.0 29.2		7.3 -3.4	5.9 -1.2	-1.2 8.8
DC 7									-	6.0 40.8
DC 8									-	52.0. 51.6
DC AVG.										
AC 1	13.1	54.5	1.93	31,9	5.78	.438	19.9	7.39	2.65	.343
AC 2	0.0	-0.8	+0-7	- 0.7	-0.4	=1.0	-0.4	-0.3	-0.2	10.2
AC AVG.										
S.P.	+13	-15		- 3			- 8			
AC NOISE	.02	0.1		.01			.01			
POT RES.	24	1K		2K			1K			

	HEINF		0 E X P L O.R NOTES	ATION C	. PRO LINE	JECT	<u>30</u> HALF <u>5</u> 2	● <u>중</u> 중 ~~ SP		E
SEND.	1.2	2 3	3 4	4 5	1 2	2 3	3 4	4 5	CAL	
RECEIVE	20-10NE				10-0 NE				2	3
RANGE	1	1	. 1	.01	. /	. /	. 1	101	10	~
DC 1	-0.22.4	3-940	3.6 10.6	3.2 6.4	12.6-8.0	6.5 -44	-1.236.8		-0.50	.0
DC 2	0.0 1.1	-3.75.6	-7.1,44	7. 5-31.6	10.6-1.0	21.1-102	51.6-20.4	. (	-0.50	0
DC 3	4.4_4.1	-1.33.9	-3.8 7.9	716-39.6	1.8 5.8	-4.7 10.9	32.0-35.6			
DC 4		- 2.0 9.1	.0.9 7.2	8.4 -11.6	5.0-15.9	14.3-15.0	48.8-400	)		
	-2.96.7			47,2	17.0	6.1 4.0	49.2 380	(		
DC 6			0.6 3.1		-15.2 30	10.2-10.0	43.2 -39.6			
DC 7			4.0 5.5		9.7 3.8	19:4-19,6	47.2 -7.6			
DC 8					-	12.1-4.8		· · · · ·		
DC AVG.					N					
AC 1	165	10.4	4.21	573	6.31	4.88	2.16	.314	202.5	5
AC 2	-0.5	-0.5	- 0.3	+0.1	-0.5	-0.9	+0.1		-0.2	
AC AVG.										
S.P.	-2				-13					
AC NOISE					.03					
POT RES.	1k				IK					

				ATION CO.	PRO		• <u>}&gt; 8 - 6</u> HALF_S	2 DA	PAGE	
SEND	4-5	3.4	4-5	2-3	3.4	4-5-	1-2	2-3	31	11-5
RECEIVE	60-50	50.40		40-30		$\longrightarrow$	30-20			
RANGE										
VOLTAGE	2/400	2600	4400	3700	2600	41400	5600	3700	2600	4500
CURRENT	6.0A	9.0A	6.0A	9.0A	9.0A	6,0A	GOA	9.0A	9:0A	60A
SEND	1-2	2.3	3-4	4-5	1-2	7 - 3	304	21-5-		CLIL
RECEIVE	20-10			>	10-0			>		2-3
RANGE	- The second									
VOLTAGE	5600	3700	2600	4500	560V	3700	260 V	41500		80V
CURRENT	6.0A	9,0A	9.0A	6.0A	6.0A	9.0A	9.0A	6.0A		2.0A
FREQUEN SENDER OPERATO RECEIVE OPERATO	NO. 6-647 R 71 R NO. L	6681-	V2	COMMEN	ITS :					

	HEINRICHS GEDEXPLORATION CO. PROJECT 308 I.P.RECEIVER NOTES LINE - HALF NISE SP. 2 DAT										
SEND	1 2	2 3	12	3 4	2 3	1 2	4 5	3 4	2 3	12	
RECEIVE	50-70 NE	70-BONK		80-90NE			90-1000E				
RANGE	1	/	- 1	/	.1	.01	. /	. /	.01	.01	
DC 1	3.0 -0.8	1.8 0.0		-2.1 3.9	6.9-5.0	-1.9 16.8	-5.9 9.9	7.2 1.6	40.8-61.6/		
	3.1-1,1		12.0-7.5		8.1 - 4.1	-2.4 14.0	- 8.8 8.1	-8.4 18.0	67.2 -79.21		
	3.4-1.1		11.0 -7.0		8.2 -4.6	-11/ 14.3	-11.9 15.3	-196 32.0	48.0_56.0	6	
DC 4	3.3 -1.0	0.7 1.1	10.6 - 7.0	-2.8 4.2	7.3.3.5	-6.223.0	-15.1 19.0	32.7 4000	16,4 - 80,81		
DC 5			10.2 - 4.9	-2.94.6	6.4 - 3.2	1.9 15.91	-2.3 5.7		41.6-432	/	
DC 6			7.8 - 4.6		6.8.3.0	48 10.1	-4.2 9.9.	52.4 60.4	636 - 652	/	
DC 7						2.3 5.0	-7.9 11.2				
DC 8						11.4-2.0		688 40.4	56,4 99,6		
DC AVG.											
AC 1	36.3	19.7	1.92	10.1	1.94.	.324	2.94	1.28	.617	N.154	
AC 2	0.0	-0.1	+0.2	-0.1	-0.1	+0.8	+0.6	+0.1	-0.1	$(\Lambda)$	
AC AVG.											
S.P.	+12	+3		+3			+15			1 5	
AC NOISE	<.01	2.01		<.01			4.01				
POT RES.	600n	500n		14			500m				

	HEINR I.P.R	ECEIVER	0 E X P L O.R NOTES	ATION C	0. PRO	JECT	308 HALFN	• 75 £ SP.	DA	PAGE
SERV	4 5	3 4	2 3	/ 2	4 5	3 4	23	12		CAL
RECEIVE	100-1100	í.			110-1.	20 NE				34
RANGE										10
DC 1										0.4 00
DC 2		1			Marrie and		/			0.900
DC 3										
DC 4							/			
DC 5						1 N	/			
DC 6		Х					X			
DC 7						/				
DC 8										
DC AVG.										
AC 1										202.5
AC 2										0.0
AC AVG.										
S.P.										
AC NOISE	NAME AND ADDRESS OF TAXABLE PARTY.									
POT RES.										

		NICHS GEO P. SEN	DEXPLORA			JECT_	• 3 0 } · HALF_2		DA	PAGE		
SEND	1-2	2-3	1-2	3-4	2-3	1-2	4-5	3- 4	2-3	1 -2		
RECEIVE	60-70	20-80		80-90			90-100	· · · · · · · · · · · · · · · · · · ·				
RANGE	and a second											
VOLTAGE	5600	360V	550V	2600	360 V	550V	440V	2602	360V	5502		
CURRENT	(0.0 A	9.0B	6.017	9.0 R	9.017	6.017	6.0A	9.0F1	9.0A	6.07		
SEND	4-15	3-01	2-3	1-2	4-5	3-41	2-3	1-2		Cal		
RECEIVE	160-110	~			110 -120					3-4		
RANGE												
VOLTAGE										60 V		
CURRENT										2.07		
FREQUEN	FREQUENCIES 0 0115			COMMENTS:								
SENDER I	SENDER NO. GGULLIS											
OPERATO	<b>R</b> 5	1										
RECEIVE	R NO.											
OPERATO	R 13	2										

108 308 - 68 LINE 2 SPREAD 2 LOOKING N 15 W DATE Nov 23 A= 1000 pm CENTER 60.0 LABEL NE/NE FREQ. 1.0 26 nov68 RC COUPLING YES مر المعنية المراجع الم مراجع المعادي المراجع ال PAGE HEINRICHS GEOEXPLORATION CO. PROJECT \_\_\_\_\_ 308 I.P.RECEIVER NOTES LINE 2 HALF 3 75 4SP. 2 DATE. 5 3 5233 4 4 4 4 SEND 4 51 22 33 4 4. RECEIVE 60-50NA 50-40NE 30-20NE 40-30NE RANGE 1 . / .01 .01 -0.12.5 1.8-0.2 -0.9 4.2 2.0 - 0.1 3.0 0.1 -28.436.0 3.1 -1.2 10.3-5.0 4.8-2.0 DC 1 7.6 8.4 -0.8 2.8 1.8 20.9 -1.341 2.0 0.1 2.9 0.9 -36.0 488 3.7 2 6.9 -5.9 6.4 -2.3 188 DC 2 544 -520 65.6 -1.0 3.1 -1.6 5.1 1.7 1.9 DC 3 8.4-4.8 6.6 -2,5 60.8 684 -1.7 3-9 -1.2 5.0 0.9 2.7 67.6-6.4 DC 4 6.1 -4.0 6.8 - 2.9 -37.6 476 15.6-17,2 9.2-8.0 8.0-2.2 51.2 DC 5 227 28.0 29.2 DC 6 7.3 -3.4 5.9 -1.2 -1.2 DC 7 6.0 40.8 52.0 DC 8 516 DC AVG. 13.1 54.5 AC 1 1.93 31,9 5.78 .343 .438 19.9 7.39 2.55 AC 2 0.0 -0.8 +0.7 -0.7 -0.4 -10 -0.4 10.2 -0.3 -0.2 AC AVG. S.P. +13 -15 - 3 - 3 AC NOISE -02 0.1 .01 .01 POT RES. 24 1K 24 1K

	). š	)	)		1 1 2 3 - S		)	)	)	PAGE
	HEINF	RICHS GE RECEIVER	0 E X P L O R NOTES	ATION C		JECT	<u>30</u> HALF <u>5</u> 2	8 5-4-SP.	_2_D	<u> </u>
SEND.	1.2	2 3	3 4	4 5	1 2		3 4	4 5	<b>^</b>	CAL
RECEIVE	20-10NE	•	a a 1 - 44		10-0 NRI		, · · · ·		19.15	2
RANGE	1	1	.1	.01	11	. /	. 1	101		10
DC 1	-0.22.4	3-940	3.6 10.6	3.2 6.4	12.6-8.0	6.5 -44	-1.7-36.8		1	-0.5 0.0
DC 2	0.0 1.1	-3.75.6	-7.1144	7.6-39.6	10.6-1.0	21.1-102	51.6 20.4	1/1		-0.5 0.0
DC 3		-1.33.9	-3.8 7.9	716-39.6	1.8 5.8	-4.7 10.9	32.0-35.6		1	0.0
DC 4	5.1 0.9	-2091	-0.9 7.2	8.4 -11.6	5.0-15.9	14.3_15.0	48.8-400	1		
DC 5	-2.96.7	-8.110.7	1.6 7.8	47,2	11.714.8	6.1 4.0	49.2 398	. /	1	-
DC 6			0.6 3.1		-15:2 30	10.2-10.0	43.2 39.6			
DC 7			4.0 5.5	818 B	9.7 3.8	19.4 -196	47.2 -7.6	1		1 - 1 N
DC 8	· · · · ·					12.1-4.8	ter a d	e.		
DC AVG.				5 gr.	D		2 <u>2 2 2 2</u>			
AC 1	165	10.4	4.21	573	6.31	4.88	2.16	.314		202.5
AC 2	-0.5	-0.5	- 0.3	+0.1	-0.5	-29	+0.1			-0.2
AC AVG.									9	2 2
S.P.	-2				-13				1	
AC NOISE	-04				.03					
POT RES.	1k				IK					
a an an an an an an an an	an The bar been a second							~	· · · · · · · · · · · · · · · · · · ·	

فتعققه فالمرد والمحتان والمتنا

), < PAGE PROJECT JOR - 68 HEINRICHS GEOEXPLORATION CO. DATE I. P. SENDER NOTES <u>\_ HALF\_SW\_SP.\_2</u> LINE\_2 SEND 4-5-4-5 3.4 2-3 3.4 1-2 3-41 4.5 2-3 4-5 RECEIVE 60-50 50-40 7 - Store 40-30 30-20 -RANGE VOLTAGE LIUDU 2600 4400 3700 4400 5600 3700 2600 2600 4500 CURRENT 9.0A 6 OA 6.0A 9.0A 9.0A 6,0A 6.0A 9.0A 9.0A 6.0A SEND 1-2 2-3 7-2/ cf - for 1-2 2 - 3 2- 4 21halt RECEIVE 20-10 7 > 2-3 10-0 RANGE VOLTAGE 3700 2600 8OV 5600 4500 5600 2600 41500 3700 CURRENT 9.0A 9.0A 7.0A 9.0A 6.0A 6.0A 6.0A 2.0A 10.0A FREQUENCIES 1.0 1015 COMMENTS: SENDER NO. 6 Garer-5 OPERATOR 71 RECEIVER NO. 1 (0 6 X1-2 OPERATOR 13

7 F	) HEINE	) Richs ge	)		0 DD0	IFOT	20			PAGE 4
	I.P.F	RECEIVER	NOTES	ATTON C			HALF	<u>75 E</u> SP.	DA	TE
SEND	1 2	2 3	1 2	3 4	2 3	1 2	4 3	13 4	2 3	12
RECEIVE	50-70 NE	70-BONK		80-90NR	:		90-100NE			
RANGE	1	1	- 1	1	-1	.01	. /	.1	.01	.01
DC 1	3.0-0.8	1.8 0.0	13.8_9.6	-2.1 3.9	6.9-5.0	-1.9 16.8	-5.9 9.9	7.2 1.6	40.8-61.6/	
DC 2	3.1-1.1	1.4 0.1	12.0-7.5	-2.3 41			-8.8 8.1		67.2 792	1
DC 3	13.4-1.1	1.0 09	11.0 -7.0	-2.6 41	8.2 46	-111 142	-11.9 152	-196	48.0 5	
DC 4	3.3 -1.0	0.7 1.1	10.6 - 7.0	-28 4.2	7.3 - 3.5	-6.2236	-15.1 19.0	32.4 432	76,4 - 9081	
DC 5			10.2 - 4.9	-2.94.6	5.4 - 3.2	1.9 15.91	-2.3 5.7	-440 544	41.6-432	1
DC 6			7.8 - 4.0		6.8-3.0	48 10,1	-4.2 9.9	52.4 604	636 - 652	1
DC 7						2.3 5.0	-7.9 11.2	600 180	35.2-85.61	A. S.
DC 8						11.4-2.0		688 40.4	56,4 99,6	1 1
DC AVG.										113
AC 1	36.3	19.7	1.92	10.1	1.94.	.324	2.94	1.28	.617	N.164
AC 2	0.0	-0.1	+0.2	-0.1	-0.1	+0.8	+0.6	+0.1	-0.1	
AC AVG.										
S.P.	+12	+3		+3			115.		, i	N
AC NOIS	<.01	2.01		<.01			4.01			
POT RES	. 600n	500n		IK			500n			
	and the second second	-								

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> ) ) PAGE ) 5 HEINRICHS GEOEXPLORATION CO. PROJECT \_\_\_\_\_\_ I.P.RECEIVER NOTES HALFN 758 SP. - DATE. LINE 2 4 5 3 42 2 SEND 3 24 5 3 4 2 CAE 3 RECEIVE 100-1104 110-120 NE 34 RANGE 10 0.4 00 DC 1 0,400 DC 2 DC 3 DC 4 DC 5 DC 6 DC 7 DC 8 DC AVG. AC 1 2025 AC 2 0.0 AC AVG. S.P. AC NOISE POT RES. .

$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1 - 2								
RECEIVE       60-76       70-80       80-90       90-100         RANGE       NOLTAGE       56011       36011       55011       26011       36011       36011       36011         VOLTAGE       56011       36011       55011       26011       36011       55011       24011       36011         CURRENT       10012       9017       6017       6017       6017       9017       9017         SEND       41-57       3-41       2-3       1-2       4-5       3-41       2-3       1-2         RECEIVE       100-110       100-120       100-120       100-120       100-120       100-120       100-120         VOLTAGE       100       100       100       100       100       100       100       100       100									
RANGE       Image       Image <th< th=""><th></th></th<>									
CURRENT       1000       3000       3000       2600       3000									
SEND       U-5       Z-4       Z-3       I-2       U-5       Z-4       Z-7       I-2         RECEIVE       r60-110       Image: March and	1550V								
RECEIVE         760-110         120-120         120-120           RANGE         Image: Comparison of the second s	6.0A								
RANGE   Image   Image     VOLTAGE   Image   Image	Cal								
VOLTAGE	3-4								
	600								
CURRENT	2.0A								
FREQUENCIES     0.15     COMMENTS:       SENDER NO.     66014-5	COMMENTS:								
OPERATOR 57									
OPERATOR 13									

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SPREAD / 103 306-68 LINE 3 LOOKING West DATE Nov 25 A= 1000 fort CENTER 0. 0 LABEL S / N FREQ. 1.0 COUPLING YES X AC X VC X 26 200 68

										DAOF
· AA										PAGE
		RICHS GE RECEIVER	OEXPLOR	ATION CO	O. PRO	JECT	3.	08		
	1.7.6	LEGEIVER	NOTES		LINE	3	HALF	<u> </u>	DA	TE
SEND	4 5	3 4	4 5	2 3	3 4	4 5	7 2	2 3	3 4	4.5
RECEIVE	0-105	10-20 5		20-305			30-405			
RANGE	1	/	. /	1	-1	/	1	-1	-/	.01
DC 1	-0.22,2	18 -0.1	2010	20-0.9	1.0 1.1	1.2 6.0	6.1 2.0	20 1.5	-1.4 1.9	40.4-40.0
DC 2	2.9 2.0	1.9 00	1.7 1.2	2000.9	1.8 0.8	-10 75	0.120	1,5 1.0	11.2-09	37.6 -28.0
DC 3	0.0 2,57	9 00	0.9 2.9		22 0.1	-0.7 6.4		0.823	0.9 -9.3	120 -12.0
DC 4	0.1 1.7				25-05	2.9130			13,8-4,9	55.5 - 39.2
DC 5										27.6 -19.6
DC 6									168-101	12.8 -400
DC 7										92.0-87.2
DC 8										
DC AVG.										
AC 1	14.2	24,8	4.72	35.2	6.81	1.84	39.9	8.39	2.28	727
AC 2	-0-7	-0.5	-0.4	-0.6	-0-1	+0.9	0.0	-0.4	-0.9	0,0
AC AVG.						-			/	
S.P.	-1	+3		+11			+2			
AC NOISE	.01	,02		-03			.01			
POT RES.	600n	600n		600n			26			

2										
	HEINF		0 E X P L O.R NOTES	ATION CI	D. PRO	JECT	308 HALF	<u>SP.</u>	DA	
SEND	12	2 3	3 4	4 5	1 2	2 3	3 4	4 5	-	CAL
RECEIVE	40-505				50-605					2 3
RANGEX	1	-1	, 1	.01	, 1	. /	.01	.01		10
001	3.6 -0.1	9.8 -11.1	-5.6 -0.4	16.0 20.0	2.6 2.2	-4.0 19.9	1.2 800	0		0.0 0.8
00 2		- //-	15.6 8.8	6 0.4 88.4	14 -7	2.22	-75.2 51.6			0.0 0.8
DC 3	1.1 1.0.	10.1-0.9	-40.4 36.8	48.8 69.2	- 4.8 5.4	17.1-10.0				
DC 4		7.9-10.1	0.0-12.0	28.0	1.3 4.0	61 183	-152 35.4			
DC 5		193-142	28.0-17.6	40 28.0	-1.8	-8.9 -	-32.8 56.0	)		
DC 6		21.4 -16.9	40.0-25.0	52.4 92.4			-42.4			
DC 7				-40.8 4.4						
DC 8				-4.0 47.2						
DC AVG.								~/		
AC 1	104	2.9 8	102	.378	3.39	1,24	.513	.219		203.0
AC 2	+0.1	0.6	+0.1	+0.4	+0.1	+1.0	0.0	/		0.0
AC AVG.	L									
S.P.	+10				+12					
AC NOISE					.03					
POT RES.	1K				1K					

		ICHS GEO		ATION CO.	PRO		• <u>308-</u> HALF_	6 V 5 SP.	DA	PAGE
SEND	4-5	3-11	2/-5-	2-3	3-41	4-5-	1-2	2-3	3-4	4-5
RECEIVE	3-10	10-20		20-30			20-110		- 1- 1-	
RANGE	dama.									
VOLTAGE	6800	4600	680 V	4200	460V	6802	460 V	4200	4604	6800
CURRENT	5.04	6.0A	5. DF7	6.0R	O.Q.B.	5.0A	6.017	6.017	6.0 FT	5.00
SEND	1-2	2.5	3-41	41-5	1-10	the second s	3 - 51	4-5-		Ce/
RECEIVE	40-50				to bla	Contras-				7-3
RANGE				14 18		Strange and				
VOLTAGE	4600	4200	4600	6800	4600	-120v	4600	6.80%		1200
CURRENT	6.0A	6.0A	la.OA	5.0 F	6.0A	- 6.0A	664	5.01		2.07
FREQUEN	CIES	0.13	~	COMMEN	ITS :					
SENDER I	NO. 66	421-5		1-1						
OPERATO		7								
RECEIVE		657 "	12	60	a Ram	2-1 1/-	ʻ1			
OPERATO	R	2								

	• • • • • • • • • • • • • • • • • • •			ATION C	. PRO	JECT _	30R			PAGE
	1.F.N		NUTES		r		HALF	r	DA	and the second design of the
SEND RECEIVE	2-10 11	2 3 10-20N	/ 2	3 4 20-30N	23	1 2	4 5 30-40N	34	23	1 2
RANGE	1	1	× [	1	-1	. /	1000	.1	. 1	1
DC 1	2,0 1,1	1.9 0,8	1.1 0.6	2.0-0.2	3.0 1.1	1,8 3.9	00 2.8	20 0.1	2.9 3.7	28 70
DC 2	2017	1.7 1.0	1.4 1.0		3.0 0,1	1,4 3.5	0.0.2.3	1.0 1.1	2.9 4.0	1.6 5.6
DC 3		1.6 0.7	20 0,3	2.1-0,3	3,60,1	1.0 3.1		0.520	1.7 4.9	3.8 6.2
DC 4					4.9 -1.0	1.7 2.1		-0820	18 5.1	5.2 3.9
DC 5										
DC 6										
DC 7 DC 8										
DC AVG.										
AC 1	244	17.2	5.66	14.8	4.76	2,52	14,5	4.98	254	1.73
AC 2	0.0	- 0.2	+0.1	-011	6.0	-0.1	+0.1	-0.1	+0.8	+ 0.1
AC AVG.							, ,			
S.P.	+12	+34		-2			+15			
AC NOISE	K.01	-01		-01			.01			
POT RES.	14	k		(K			500n			

	HEINF		0 E X P L O,R NOTES	ATION C	. PRO	JECT	309 HALF	The sum operation in the second se	DA	
SEND	4 5	3 4	2 3	12	4 5	3 4	2 3	12	1	CAL
RECEIVE	40-50N				50-60N					3 4
RANGE	1	-1	.01	-01	.01	-61	.01	101		10
DC 1	3.1 0,8	8.3 5.0	-5.9/90	22,1 -6,0	10.9 -0.4					-08 00
DC 2	5.9-2.1	-1/13/	-15.0 23.1	21.9-20	148-62	-2,815.9				~98 QD
DC 3	7.1 -1.0	4.86.3 -	12.0 18.1	20.0 - 3.4/	20.2-12.9	-8,7/100				
DC 4	5.5-0.6	4.9 0.2	-10.9/-118	178-3.9	23.0-9.0	5.1 8.2				
DC 5	0	-18.12.7	11.8 -1801	17.1-2.9	18,9-4.4	-33/21.0				
DC 6		-3.2 21.0	-7.0 24.9	20.65.4	12.9-10,1	-9,823/				
DC 7		-9.8 13.1	-5,9 24.2	9.0 9.8	210-6.4		. /		1.00	
DC 8		-13: 232	-18.2	7.0 11.5						
DC AVG.							X	$\square$		
AC 1	1.98	1.39	.908	.734	340		.742	12/19	-	203.0
AC 2	+0.2	-0.1	-0.1	+2H	-0.1	-0.3	$\langle \rangle$	Z = 1		-26
AC AVG.							$\sim$			
S.P.	+6				+12				1	
AC NOISE					.02					
POT RES.	1K				700m					

A D				)		(			•	PAGE
		RICHS GEO P. SEN	DEXPLORA				<u>308 - (</u> HALF		D#	ATE/1-23_
SEND	1-2	2-3	1-2	3-4	2-3	1-2	4-5	3-9	2-3	1-2
RECEIVE	0-10	10-20		20-30			30-40			->
RANGE										
VOLTAGE	4400	4000	4400	4400	4000	4400	6600	4400	400V	4404
CURRENT	6.04	6.0A	6.0A	(0.0H	6.0A	6.0A	5.0A	6.0A	6.00	6,0A
SEND	1925	3-4	2-3	1-2	4-5-	3-4	2-3	1-2		CAL
RECEIVE	=2-53			>	50-60			$ \longrightarrow $		3-4
RANGE										
VOLTAGE	660V	4400	400V	Myan	6600	4400	4000			1400
CURRENT	5,6A	6,0A	6,0A	G.CA	-5.0A	GOR	6.012			204
FREQUEN	CIES 1. C	9_15		COMMEN	ITS :	and the second s				
SENDER I	NO. 664	44-5		· mp						
OPERATO		71			ow Aa	nge 41	-5			
RECEIVE	R NO.	16621-	· n_	4	Frigh "	1-2.7	2-3-3-41			1.34
OPERATO	R	3			× .		-1° - 1			

and the second distance of the second distance and the second s

JOS 306-68 LINE 3 SPREAD LOOKING West DATE Nov 25 A= 1000 fort CENTER 0.0 LABEL SIN FREQ. 1.0 COUPLING YES <> KACKNCX 26 nov 68 PAGE HEINRICHS GEOEXPLORATION CO. PROJECT \_\_\_\_ 308 I.P.RECEIVER NOTES LINE \_3\_ HALF \_S SP.\_/ DATE 53 44 52 33 44 SEND 51 22 33 24 4 RECEIVE 0-105 10-20 5 20-305 30-405 RANGE .1 -1 -0222 2010 18-01 20-0.9 DC 1 -1.4 1.9 40.4-40. 0.1 20 10 1.2 6.0 2.0 1.1 1.5 2.4 2.0 1.9 00 20-09 18 08-10 75 17 12 DC 2 0.1 20 1,5 11.2 - 8737.6 -28.0 60 8 00 0.9 2.9 0.0 25 22 0.1 -0.7 6.4 10.9 -9.3 100 -12.0 DC 3 2823 311.7 2,5-0,5 -2.9130 DC 4 13.8 -49 555 - 392 DC 5 150 -157 27.6 -19.6 DC 6 12.8 -40.0 168-121 92.0-87.2 DC 7 DC 8 DC AVG. 14.2 AC 1 248 4.72 3.5.2 1.84 39.9 2.28 .727 6.81 8.39 AC 2 0-7 -0.5 -0.4 -0.6 +0.9 -0-1 PO.9 0.0 -0.4 0,0 AC AVG. +3 S.P. +11 +2 AC NOISE ,02 .01 -03 ,01 POT RES. 60.00 600, 600n 26

	( A		. )		)			)	)	)	PAG
	<u></u> не І.	EINR P.R	RICHS GE RECEIVER	R NOTE	RATION C S	D. PRO	)JECT _ E	308 HALF _	<u>SP</u> .	D/	ĀTE
SEND	-1	2	2 :	33	44 5	5/ 2	T		14 5	V.	CAL
RECEIVE	40-:	505		1		50-605			<u> </u>	+	2
RANGEX	1		-1	.1	.01	. /	. 1	.01	.01		
DC 1	3.6	-0.1	9.8 -11.1	1-5.6 -0.4	1 16.0 20.0	2.6 2.2		1.2 800	1	+	0.0
DC 2	3.1	1.6	13.1 -11.1	1 15.6 80	560H BOW	145 10	-10.5 3.5	3-752 510		+	0.8
DC 3	1.1	1.0	10.1-0.9	-40.4 36.4	8 48.8 69.2	-4.8 5.4	17.1-10.0	-21,2 512			0.0 0.8
DC 4			7.9-10.1	0.0-12.0	28.0	1.340	6.1 19.	3-152 35.4		+	+
DC 5			193-142	28.0-17.0	5 40 280	-1.8	-8.9	-32.8 56.0		+	
DC 6			21.4 -16.9	9 40.0-25.0	52.4 974	,	1	-42.4		+	
DC 7					- 40.8 4.4	1	1	1		+	+
DC 8					-4.0 47.2		1	1		+	
DC AVG.									1	<u>†</u>	1
AC 1	10		2.98	1,02	.378	3.39	1,24	.513	2/19-		203.
AC 2	+0.	1	0.6	+0.1	+0.4	+0.1	+1.0	0.0	/		0.0
AC AVG.							E FF BAC	- U	/		V
S.P.	+10	>				+12					+
AC NOISE						.03				t	1
POT RES.	IK				1	14					
	<u> </u>	1791	( <sup>24</sup> )		)			)	1	)	PAGE
		INRIC		DEXPLORA	ATION CO.	PRO	JECT	) 308- HALF_S	0 6 P 5SP	) DA	PAGE
	1.	. P.	SEN	DER NO		LINE	JECT	) 308- HALF_ 1-2	() 6 P 5 SP 2-3	) <u>1</u> DA 3-4	
		. P.	3- 1/	DER NO	DTES	LINE	4-5-	HALF	<u>S</u> SP	~~	TE//-2
SEND	4-5	. P.	SEN	DER NO	OTES	LINE	4-5-	HALF	<u>S</u> SP	~~	TE//-2
SEND RECEIVE	4/-5 0-1	. <b>P</b> .	3- 1/ /n-20	24-5-	2-3 20-30	3-c/	4-5-	HALF /- 2 ?@ 1/0	5SP	3-4	TE//-2
SEND RECEIVE RANGE	1. 45 0-1 680	· P.	SEN 3- 1/ 10-20 4600	680U	DTES 2-3 20-20 4204	2-2/ 460V	4-5- 680v	HALF 1-2 20-10 4601	5SP 2-3 420V	3-4	TE//-2
SEND RECEIVE RANGE VOLTAGE CURRENT	1, 	· P.	SEN 3- 1/ 10-20 4600 6.0B	680U	2-3 20-30	2	4 - 5- 6 8 D V 5.0 P	HALF 1-2 20-10 4604 6.017	5SP	3-4	TE/1-22 4-5 6804 5.0D
SEND RECEIVE RANGE VOLTAGE CURRENT SEND	1, -4/-5 -5.0 5.0 1-2	· P.	SEN 3- 1/ 10-20 4600	6800 5. DF7	DTES 2 - 3 20 - 20 420 V 6.07	LINE 3-L/ 460V 0000	4/-5- 680v 5-017	HALF 1-2 20-10 4601	5SP 2-3 420V 6.02	3-4	TE/1-22 54-5-
SEND RECEIVE RANGE VOLTAGE CURRENT SEND	1, 	· P.	SEN 3- 1/ 10-20 4600 6.0B	6800 5. DF7	DTES 2 - 3 20 - 20 420 V 6.07	LINE 3-L/ 460V 0000	4 - 5- 6 8 D V 5.0 P	HALF 1-2 20-10 4604 6.017	5SP 2-3 420V 6.02	3-4	TE/1-22 54-5 68704 5.02 Ce/
SEND RECEIVE RANGE VOLTAGE CURRENT SEND RECEIVE	1, -4-5 -5.0 5.0 1-2 40-5	· P.	SEN 3- 1/ 10-20 4600 6.08 2-3	6800 5.07	2-3 20-30 420v 6.07 420v	LINE 3/ 460V 0000000000000000000000000000000000	4/-5- 680v 5.0A 25	HALF /- 2 ?0- 10 46011 6.017 3-54	5SP 2-3 420V 6.0D 4-5	3-4	TE/1-2
SEND RECEIVE RANGE VOLTAGE CURRENT SEND RECEIVE RANGE	1, 4,-5 0-1 680 5.0 1-2 40-5 40-5	· P.	SEN 3- 1/ 10-20 4600 6.08 2-3 	6800 5.0F7 3-41	2-3 20-30 420v 6.07 420v	LINE 3/ 460V 0000 1	4/-5- 680v 5.017 25	HALF 1-2 20-10 46011 6.017 3-54 	5SP 2-3 420V 6.02	3-4	TE/1-22 54-5 68704 5.02 Ce/
SEND RECEIVE RANGE VOLTAGE CURRENT SEND RECEIVE RANGE VOLTAGE	1, 	· P.	SEN 3- 1/ 10-20 4600 6.00 6.00 6.00 5.15	6800 5.07	DTES 2 - 3 20 - 30 420 V 6.017 6.017 6.017 6.017	LINE 3-L/ 460V 60V 600 600 6.00	4/-5- 680v 5.0A 25	HALF 1-2 20-10- 46011 6.07 3-54 	5_SP. 2-3 420V 6.0R 4-5 6.80L	3-4	TE/1-2 4-5 6804 3.02 Ce/ 2-3
SEND RECEIVE RANGE VOLTAGE CURRENT SEND RECEIVE RANGE VOLTAGE CURRENT	1, 	· P.	SEN 3 - 1/ 10 - 20 4 600 6 00 4 200 6 00	6800 5.0F7 3-41	DTES 2 - 3 20 - 20 420 V 6.017 6	LINE 3	4-5- 6802 5.07 23 51202 -6.00	HALF 1-2 20-10- 46011 6.017 3-57 4600 6.064	5 SP. 2-3 420V 6.0R 4-5 6.0C 5.6A	3-4	TE/1-2 4-5 6804 3.02 Ce/ 2-3
SEND RECEIVE RANGE VOLTAGE CURRENT SEND RECEIVE RANGE VOLTAGE CURRENT FREQUENC	1, 	· P.	SEN 3- 1/ 10-20 4600 6.00 6.00 6.00 101-5	6800 5.0F7 3-41	DTES 2 - 3 20 - 20 420 V 6.07 6	460V 9	4-5- 6802 5.08 25 El202 - 6.00	HALF / - 2 20- 10- 46011 6.017 3 - 57 	5 SP. 2-3 420V 6.0R 4-5 6.0C 5.6A	3-4	TE/1-21 54-5 68704 5.02 2-3 1201
SEND RECEIVE RANGE VOLTAGE CURRENT SEND RECEIVE RANGE VOLTAGE CURRENT FREQUENC SENDER N	1, 	· P.	SEN 3- 1/ 10-20 4600 6.04 2-3 4200 6.04 0.15 101-5 7	DER NO 1-5 6800 5.07 3-01 4600 1000	DTES 2 - 3 20 - 20 420 V 6.07 6	460V 9	4-5- 6802 5.08 25 El202 - 6.00	HALF / - 2 20- 10- 46011 6.017 3 - 57 	5 SP. 2-3 420V 6.0R 4-5 6.0C 5.6A	3-4	TE/1-2 4-5 6804 3.02 2-3 1204
SEND RECEIVE RANGE VOLTAGE CURRENT SEND RECEIVE RANGE VOLTAGE CURRENT FREQUENC SENDER N OPERATOR RECEIVER	1, 4, -5 0, -1 6,80 5,0 1-2 40-5 1,0 1,0 0,6 0,6 0,6 0,6 0,6 0,6 0,6 0	· P.	SEN 3- 1/ 10-20 4600 6.00 6.00 6.00 101-5	DER NO 1-5 6800 5.07 3-01 4600 1000	DTES 2 - 3 20 - 20 420 V 6.07 6	LINE 3	4-5- 6802 5.08 25 El202 - 6.00	HALF / - 2 20- 10- 46011 6.017 3 - 57 	5 SP. 2-3 420V 6.0R 4-5 6.0C 5.6A	3-4	TE/1-2 4-5 6804 3.02 Ce/ 2-3
SEND RECEIVE RANGE VOLTAGE CURRENT SEND RECEIVE RANGE VOLTAGE CURRENT FREQUENC SENDER N OPERATOR	1, 4, -5 0, -1 6,80 5,0 1-2 40-5 1,0 1,0 0,6 0,6 0,6 0,6 0,6 0,6 0,6 0	· P.	SEN 3- 1/ 10-20 4600 6.04 2-3 4200 6.04 0.15 101-5 7	DER NO 1-5 6800 5.07 3-01 4600 1000	DTES 2 - 3 20 - 20 420 V 6.07 6	460V 9	4-5- 6802 5.08 25 El202 - 6.00	HALF / - 2 20- 10- 46011 6.017 3 - 57 	5 SP. 2-3 420V 6.0R 4-5 6.0C 5.6A	3-4	TE/1-21 54-5 68704 5.02 2-3 1201
SEND RECEIVE RANGE VOLTAGE CURRENT SEND RECEIVE RANGE VOLTAGE CURRENT FREQUENC SENDER N OPERATOR RECEIVER OPERATOR	1, 4, -5 0, -1 6,80 5,0 1-2 40-5 1,0 1,0 0,6 0,6 0,6 0,6 0,6 0,6 0,6 0	· P.	SEN 3- 1/ 10-20 4600 6.04 2-3 4200 6.04 0.15 101-5 7	DER NO 1-5 6800 5.07 3-01 4600 1000	DTES 2 - 3 20 - 20 420 V 6.07 6	460V 9	4-5- 6802 5.08 25 El202 - 6.00	HALF / - 2 20- 10- 46011 6.017 3 - 57 	5 SP. 2-3 420V 6.0R 4-5 6.0C 5.6A	3-4	TE/1-2 57-5 6804 5.02 2-3 1204
SEND RECEIVE RANGE VOLTAGE CURRENT SEND RECEIVE RANGE VOLTAGE CURRENT FREQUENC SENDER N OPERATOR RECEIVER OPERATOR	1, 4, -5 0, -1 6,80 5,0 1-2 40-5 1,0 1,0 0,6 0,6 0,6 0,6 0,6 0,6 0,6 0	· P.	SEN 3- 1/ 10-20 4600 6.04 2-3 4200 6.04 0.15 101-5 7	DER NO 1-5 6800 5.07 3-01 4600 1000	DTES 2 - 3 20 - 20 420 V 6.07 6	460V 9	4-5- 6802 5.08 25 El202 - 6.00	HALF / - 2 20- 10- 46011 6.017 3 - 57 	5 SP. 2-3 420V 6.0R 4-5 6.0C 5.6A	3-4	TE/1-2 54-5 68DU 5.0D 2-3 120v

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	HEINI	RICHS GE	EOEXPLOR	ATION C	0. PRO	JECT _	308			
	I.P.H	RECEIVER	R NOTES		LIN	E	HALF_	_∕∕_SP.		ATE.
SEND	12	2 3	/ 2	3 4	2 3	1 2	4 3	3 4	23	l
	5-10 N	10-20N		20-30N			30-40N	/	11 A. 1	Ι
RANGE	1	1	• 1	1	-1	1.1	1	.1	.1	11
DC 1	2.0 1,1	1.9 0.8	1.1 0.6	2.0-0.2	3.0 1.1	1,8 3.9	00 28	20 0.1	2,9 3,7	28
DC 2	ZOTA	1.7 1.0	1.4 1.0	21-05	3.0 0.1	1.4 3.00	0.0.28	10 11	2.9 4.0	1.6
DC 3		1.6 0.7	20 0,3	2.1-0.3	3,60,1	1.0 3.1		9.520	1.7 4.9	38
DC 4					4.9 -1.0	1.7 2,1		-0820	18 5.1	5.2
DC 5		ļ		-		· ·				Ι
DC 6										
DC 7										
DC 8										
DC AVG.										
AC 1	24.4	17.2	5.66	14.9	4.76	2,52	14,5	4.98	254	1.7
AC 2	0.0	- 0-2	+0.1	-011	6.0	-0.1	+0.1	-0.1	+0.8	+0
AC AVG.										
	+12	+34		-2			+15	1		
AC NOISE	KO1	-01		-01			.01			
	11	14		IK			500n		· · · · ·	1
POT RES.		)	a	· · · · · · · · · · · · · · · · · · ·					)	TF
	)	)		)			)	)	)	
	) ) Heini	ICHS GE	e o e x p l o,r R NOTES	ATION C			) 30: HALF_	) N_SP.	) DA	
2 SEND	) HEINT I.P.F	RECEIVER	NOTES			E_ <u>3</u>	and the second se	N_SP.	1	TE.
SEN D RECEIVE	) HEINI I.P.F 40-50N	RECEIVER	R NOTES	12	4 5	3 4	HALF_	N_SP.	1	L ATE_
SEND RECEIVE RANGE	) HEINI I.P.F 40-5010		R NOTES	1 2	4 5 50-60N	3 4	HALF_	N_SP.	1	С. З
SEND RECEIVE RANGE DC 1	) HEINI I.P.F 40-son 1 3.1 08	RECE I VER	2 3	-01	4 5 50-60 N 	3 3 -61 5.0 12.2	HALF_ 23	N_SP. / 2	1	C. 3 -08
SEND RECEIVE RANGE DC 1 DC 2	) HEINI I.P.F 40-50N -1 3.1 08 5.9 -2.1	3 4 - 1 - 3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	NOTES	1 2 -01 22,1 -6,0 21.9-20	LINE 50-60N 10.9 -0.4 148 -62	3 4 -61 5.0 12.2 -28 15.9	HALF_ 23	N_SP. / 2	1	C. 3 -08
SEND RECEIVE RANGE DC 1 DC 2 DC 3	) HEINT I.P.F 40-50N -1 3.1 0.8 5.9-2.1 7.1-1.0	3 4 3 4 93 5.0 -1.1 (3) 48 6.3	NOTES	1 2 -01 22,1 -6,0 21.9-2,0 20.0 -3,4/	LINE 50-60 N 	3 3 4 .61 5.0 12.2 -28 15.9 -28 15.9 -28 15.9	HALF_ 23	N_SP. / 2	1	C. 3 -08
>         >           SEND         RECEIVE           RANGE         DC           DC         1           DC         2           DC         3           DC         4	) HEINT I.P.F 40-50N -1 3.1 0.8 5.9-2.1 7.1-1.0	3 4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	NOTES	1 2 -01 22,1 -6,0 21.9 - 2,0 20.0 -3.4/ 17B-3,9	LINE 50-60N 50-60N 10.9 -0.4 148 -658 20.2 -12.9 23.0 -80	3 3 -61 -5.0 12.2 -28 15.9 -28 15.9 -28 15.9 -28 -5.9 -28 -5.9 -28 -5.9 -2.2 -28 -5.9 -5.	HALF_ 23 .01	N_SP. / 2	1	C. 3 -08
SEND RECEIVE RANGE DC 1 DC 2 DC 3 DC 4 DC 5	) HEINT I.P.F 40-50N -1 3.1 0.8 5.9-2.1 7.1-1.0	3 4 -1 9.3 5.0 -11/ 13/ 4.8 6.3 4.8 6.3 -19.12.7	NOTES	1 2 -01 22,1 -6,0 21.9 - 20 200 - 3.41 17.8 - 3.9 17.1 - 2.9	LINE 50-60N 50-60N 10.9 -0.4 148 -62 20.2 -12.9 23.0 -90 (8,9 - 9.4	3 -61 -5.0 12.2 -28 15.9 -28 15.9 -28 15.9 -3.3/21.0 -3.3/21.0	HALF_ 23	N_SP. / 2	1	C. 3 -09
>         >           SEND         RECEIVE           RANGE         DC           DC         1           DC         2           DC         3           DC         4           DC         5           DC         6	) HEINF I.P.F 40-50N -1 3.1 0.B 5.9 -2.1 7.1 -1.0 5.5 -0.5	ECE I VER 3 4 3 5.0 -1.1 1.3 4.8 6.3 4.9 6.3 -1.9 1.2.7 -3.2 2.6	NOTES	1 2 22,1 -6,0 21.9-2,0 20.0 -3.4/ 178-3,9 17.1-2,9 20,6 5,4	LINE 50-60 N 	3 3 4 -61 5.0 12.2 -28 15.9 -28 15.9 -28 5.7 100 5.7 8.7 100 5.7 8.2 -33/210 -2,8 23/	HALF_ 23	N_SP. / 2	1	C. 3 -08
SEND RECEIVE RANGE DC 1 DC 2 DC 3 DC 4 DC 5 DC 6 DC 7	) HEINF I.P.F 40-50N -1 3.1 0.B 5.9 -2.1 7.1 -1.0 5.5 -0.5	3 4 -1 93 5.0 -1.1 1.3 4.8 6.3 -1.9 1.3 -1.9 -1.2 -1.9 -1.9 -1.2 -1.9	NOTES	1 2 -01 22,1 -6,0 21.9-20 200 -3.41 178-3.9 178-3.9 171-2,9 20,65,4 9.0 9.8	LINE 50-60 N 	3 3 4 -61 5.0 12.2 -28 15.9 -28 15.9 -28 5.7 100 5.7 8.7 100 5.7 8.2 -33/210 -2,8 23/	HALF_ 23	N_SP. / 2	1	C. 3 -09
SEND           RECEIVE           RANGE           DC	) HEINF I.P.F 40-50N -1 3.1 0.B 5.9 -2.1 7.1 -1.0 5.5 -0.5	ECE I VER 3 4 3 5.0 -1.1 1.3 4.8 6.3 4.9 6.3 -1.9 1.2.7 -3.2 2.6	NOTES	1 2 22,1 -6,0 21.9-2,0 20.0 -3.4/ 178-3,9 17.1-2,9 20,6 5,4	LINE 50-60 N 	3 3 4 -61 5.0 12.2 -28 15.9 -28 15.9 -28 5.7 100 5.7 8.7 100 5.7 8.2 -33/210 -2,8 23/	HALF_ 23	N_SP. / 2	1	C. 3 -09
SEND           RECEIVE           RANGE           DC           B           D           A           VG	) HEINI I.P.F 40-501 -1 3.1 08 5.9 -2.1 7.1 -1.0 5.5 -0.6	ECE I VER 3 4 93 5.0 -1.1 1.3 4.8 6.3 4.8 6.3 4.9 6.3 -1.2.7 -3.2 2.6 -9.8 1.3,1 -1.3.2 2.32	NOTES 2 3 -01 -5.9 190 -15.0 23.1 -12.0 18.1 -10.9 -1.18 -1.9 -1.18 -1.9 -1.18 -7.0 24.9 -5.9 24.2 -1.8.2	1 2 -01 22,1 -6,0 21.9-2,0 20.0 -341 178-3,9 17.1-2,9 20,6 5,4 9,0 9,8 7,0 11.5	LINE 50-60 N 50-60 N 10.9 -0.4 148 -68 20.7 -12.9 23.0 -80 18.9 - 9.4 12.9 -16,1 21.0 -6.4	3 3 4 .61 5.0 12.2 -28 15.9 -28 15.9 -2.8 15.9 -3.3/21.0 -2.8 23/ -2.8 23/	HALF_ 23	N_SP. / 2 /01	1	C 3 -08 -08
SEND         RECEIVE         RANGE         DC         BC         AC	) HEINI I.P.F 40-50N 21 3.1 OB 5.9-2.1 7.1-1.0 5.5-0.6	ECE I VER 3 4 -1 9.3 5.0 -11/ (3) 4.8 6.3 4.8 6.3 -19.12.7 -3.2 21.0 -7.8 13.1 -13.2 23.2 -1.3 9	NOTES 2 3 -01 -5.9 190 -15.0 23.1 -12.0 18.1 -10.9 1-118 11.2 -1801 -7.0 29.2 -5.9 29.2 -5.9 29.2 -19.2 -19.2 -19.2	1 2 -01 22,1 -6,0 21.9-20 20.0-3.41 17.8-3.9 17.1-2.9 20,65.4 9.0 9.8 7.0 11.5 .7 3 4	LINE 50-60N 50-60N 10.9 -0.4 148 -62 20.2 -12.9 23.0 -90 18.9 -9.4 12.9 -16,1 21.0 -6.4 .3 40	3 3 -61 -5.0 12.2 -28 15.9 -28 15.9 -28 15.9 -28 -33/210 -33/2	HALF_ 23	N_SP. / 2	1	C 3 -09 -09
X       X         X       E         X       E         X       X         X	) HEINI I.P.F 40-501 -1 3.1 08 5.9 -2.1 7.1 -1.0 5.5 -0.6	ECE I VER 3 4 -1 9.3 5.0 -11/ (3) 4.8 6.3 4.8 6.3 -19.12.7 -3.2 21.0 -7.8 13.1 -13.2 23.2 -1.3 9	NOTES 2 3 -01 -5.9 190 -15.0 23.1 -12.0 18.1 -10.9 -1.18 -1.9 -1.18 -1.9 -1.18 -7.0 24.9 -5.9 24.2 -1.8.2	1 2 -01 22,1 -6,0 21.9-2,0 20.0 -341 178-3,9 17.1-2,9 20,6 5,4 9,0 9,8 7,0 11.5	LINE 50-60 N 50-60 N 10.9 -0.4 148 -68 20.7 -12.9 23.0 -80 18.9 - 9.4 12.9 -16,1 21.0 -6.4	3 3 4 .61 5.0 12.2 -28 15.9 -28 15.9 -2.8 15.9 -3.3/21.0 -2.8 23/ -2.8 23/	HALF_ 23	N_SP. / 2 /01	1	C 3 -08 -08 -08
SEND         RECEIVE         RANGE         DC         BC         AC         AC         AC         AC	) HEINI I.P.F 40-5010 31 08 5.9-2.1 7.1-1.0 5.5-0.6  1.9 8 + 0.2	ECE I VER 3 4 -1 9.3 5.0 -11/ (3) 4.8 6.3 4.8 6.3 -19.12.7 -3.2 21.0 -7.8 13.1 -13.9 232 1.3 9	NOTES 2 3 -01 -5.9 190 -15.0 23.1 -12.0 18.1 -10.9 1-118 11.2 -1801 -7.0 29.2 -5.9 29.2 -5.9 29.2 -19.2 -19.2 -19.2	1 2 -01 22,1 -6,0 21.9-20 20.0-3.41 17.8-3.9 17.1-2.9 20,65.4 9.0 9.8 7.0 11.5 .7 3 4	LINE 50-60N 50-60N 10.9 -0.4 148 -62 20.2 -12.9 23.0 -80 18.9 -9.4 12.9 -10,1 21.0 -5.4 .3 40 -0,1	3 3 -61 -5.0 12.2 -28 15.9 -28 15.9 -28 15.9 -28 -33/210 -33/2	HALF_ 23	N_SP. / 2 /01	1	C 3 -08 -08 -08
SEND RECEIVE RANGE DC 1 DC 2 DC 3 DC 4 DC 5 DC 6 DC 7 DC 8 DC 7 DC 8 DC AVG. AC 1 AC 2 AC AVG. S.P.	) HEINI I.P.F 40-50N 21 3.1 0.8 5.9 -2.1 7.1 -1.0 5.5 -0.6  1.9 8 + 0.2 + 0.2	ECE I VER 3 4 -1 9.3 5.0 -11/ (3) 4.8 6.3 4.8 6.3 -19.12.7 -3.2 21.0 -7.8 13.1 -13.9 232 1.3 9	NOTES 2 3 -01 -5.9 190 -15.0 23.1 -12.0 18.1 -10.9 1-118 11.2 -1801 -7.0 29.2 -5.9 29.2 -5.9 29.2 -19.2 -19.2 -19.2	1 2 -01 22,1 -6,0 21.9-20 20.0-3.41 17.8-3.9 17.1-2.9 20,65.4 9.0 9.8 7.0 11.5 .7 3 4	LINE 50-60N 50-60N 10.9 -0.4 148 -62 20.2 -12.9 23.0 -20 18.9 -4.4 12.10 -8.4 12.10 -8.4 -0.1 -0.1	3 3 -61 -5.0 12.2 -28 15.9 -28 15.9 -28 15.9 -28 -33/210 -33/2	HALF_ 23	N_SP. / 2 /01	1	C 3 -08 -08 -08
SEND         RECEIVE         RANGE         DC         BC         AC         AC         AC         AC	) HEINI I.P.F 40-501 31 08 5.9-2.1 7.1-1.0 55-0.6  1.9 8 +0.2 +6 -03	ECE I VER 3 4 -1 9.3 5.0 -11/ (3) 4.8 6.3 4.8 6.3 -19.12.7 -3.2 21.0 -7.8 13.1 -13.9 232 1.3 9	NOTES 2 3 -01 -5.9 190 -15.0 23.1 -12.0 18.1 -10.9 1-118 11.2 -1801 -7.0 29.2 -5.9 29.2 -5.9 29.2 -19.2 -19.2 -19.2	1 2 -01 22,1 -6,0 21.9-20 20.0-3.41 17.8-3.9 17.1-2.9 20,65.4 9.0 9.8 7.0 11.5 .7 3 4	LINE 50-60N 50-60N 10.9 -0.4 148 -62 20.2 -12.9 23.0 -80 18.9 -9.4 12.9 -10,1 21.0 -5.4 .3 40 -0,1	3 3 -61 -5.0 12.2 -28 15.9 -28 15.9 -28 15.9 -28 -33/210 -33/2	HALF_ 23	N_SP. / 2 /01	1	TE.

	)			)			)	0		PAGE
		RICHS GEO	DEXPLORA			JECT	308 - ( HALF_	<u>/ 8</u> //_SP		TE//-23
SEND	1-2	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2
RECEIVE	0-10	10-20	>	20-30			30-40			->
RANGE	(and a									1
VOLTAGE	41100	4000	44100	4400	4.000	4400	6600	4400	4000	9400
CURRENT	6.04	6.0A	6.0A	(0.0A		6.0A	5.0A	6.0A	6.0A	1:,0A
SEND	4-5	3-4	2-3	1-2	4-5-	3-4	2-3	1-2		CAL
RECEIVE	40-50			~~~>	50-60			·>		3-4
RANGE										
VOLTAGE	1060U	4400	400V	CLUDV	66000	4400	4600			1400
CURRENT	5.6A	6,0A	6.0A	G. UA	5.10	NOR.	6.00			2.0A
FREQUEN		1_15		COMMEN	TS	a start and a start a s				
SENDER I	NO. 664	14-5		· ·						
OPERATOR		71			un Aa	nge Ll	5	•	.7	- 12
RECEIVE		1/0/.31-	R	- we inter	+194 "	1-2, 2	-3,3-4			
OPERATO	R	3					-12-1		135 0	

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JOB 308-68 LINE / SPREAD No. CA LOOKING N 15 W DATE Nov 68 A= 1000 CENTER 0.0 LABEL SW/NE FREQ. 3.0

COUPLING YES

e e.

PFE PROGRAM



	HEINR I.P.R	EICHS GE ECEIVER	0 E X P L O.R NOTES	ATION CO	. PRO		308 HALF S		• DA	РА G Е ТЕ
SEND	4 5	3 4	4 5	2 3	3 4	4 5	1 2	2 3	3 4	4 5
RECEIVE	0-105W	10-20.5W		20-30 SW			30-40 540			
RANGE	10	10	1	10	1	1	1	/	1	- /
DC 1	3.9 1.4	2.5 41	2.0 2,1	4 MP	2.3 4.0	2.0 5.1	3.0 0.9		6.4 1.9	5.9 -4.1
DC 2	3.51,4		28 -6.00	11,1 1,9	1.5 3,5	/ 7.1	2.9 0.9		1.8 2.6	5-0-36
DC 3	3.12,6	1.6 3.8	1.9 -0.7	0.8 3.0	1.0 6.7/	-03 8.0	3.3 0.5	3.7.29	-78 - 1	4.2-2.7
DC 4	1.8 4.0		8.4 -1.5			-2.# 5.7		7.1 -3.6/	6.1 2.2	
DC 5			4.8-0.6		3.1 5.6	-0.3 7.0		-1.76.0	2.5	
DC 6			7.3 -1.6							
DC 7										L
DC 8										
DC AVG.					~ 11 mg	500	25 11	240	N	8.77
AC 1	149.0	132.	62.2	238.	54.7	37.3	73.4	36.2	11.7	
AC 2	+0	+0+6	-0.2	+0	70	+0	+0	+0	-02	-0.0
AC AVG.										
S.P.	-14	+9		+118			+52			
AC NOISE	1	.01		102			-02			
POT RES.	2k	IK		1K			2K			

a i			•					0		PAGE
ALA P	·)·									
	7 HEINF	RICHS GE RECEIVER	OEXPLOR NOTES	ATION CI				W_SP.		
	1.1.1		NUTLS					<u>~_</u> 5P	UA	I C
SEND	1 2	2 3	3 4	4 5	1 2	2 3	34	4 5	-	CRL
RECEIVE	40-80Sh	· ·			50-60560					2 3
RANGE	- /	.1	. /	. /	. 1	.1	.1	. /		10
DC 1	3.4 0.0		7.4 -2.0			8.9-0.7		9.8-1.8		-0.20
DC 2		15.5-5.8		5.36.4	10.4-11.0	-6.915.1	8.9 5.0	2-0/7.4		-0.20
DC 3			0.1 9.0	-5.4 5P	7.4 - 7.5	-2.10.9	3.2 9.4	-3.316.6		
		-2368			14.0-8.0	7.8 -5.9	-5.014.9	-7.317.2		
Contraction of the local division of the loc		-1.8 5.4			13.0-13.	15.0 -12.4	2.7 4.9	-1.9 9.8		
DC 6	3.6 0.4	-1.9 5.6	2.36.2		-0.95.0	the second se	3.4 5.3	Concession of the local division of the loca		
DC 7		ļ			27-1.7	-8.1/251	8.75.1	-3.16.5		
DC 8										
DC AVG.	0.0	600	24.5	2 = 0	200			110 -		
AC 1	9.12	6.20	2.45	209	9.22	8.80	4.73	4.87		200
AC 2	+0.2	+0,1	0.0	+0.1	10	+0.1	0.0	+0.1		-0.1
AC AVG.	2									
S.P.	- 3				+14				·	
AC NOISE					.02					
POT RES.	IK	· ·			1K			1		

	HEINR	RICHS GEO P. SEN			PRO LINE		3 <i>08</i> HALF <u>s</u> :	• <u>56</u> SP.	• DA	PAGE
SEND	4 5	3 4	4 5	2 3	3 4	4 5	1 2	2 3	3 4	4 5
RECEIVE	0-1050	10-2054		20-30 54			30-4054	-		
RANGE										
VOLTAGE	270	220	270	290	220	270	220	280	220	270
CURRENT	20	2.0	2.0	2.0	2.0	2.0	1.0	2.0	2.0	2.0
SEND	12	2 3	3 4	4 5	12	23	34	4 5	-	CAL
RECEIVE	40-5054				50-6054					
RANGE										
VOLTAGE	220	280	220	270	220	290	220	270		290
CURRENT	1.0	2.0	2.0	2.0	1.0	2.0	2.0	2.0		2.0
FREQUEN	CIES 3. C	2 ./		COMMEN	ITS :					
SENDER I	NO. 136	715								
OPERATO	R 7/ √	+57								
RECEIVE	R NO. /	66811	R							
OPERATO	R 13	>								

·										PA G E
	HEINR	ICHS GE	OFXPLOR	ATION CI	PRO	IFCT	305	3	4	
	I.P.R	ECE I VER	NOTES		LINE		HALF	75ESP.	DA	TE
SEND	12	2 3	12	3 4	2 3	12	4 5	3 4	23	12
RECEIVE	O-IONE	10-20NE		20-30NE			30-40N			
RANGE	1	1	1	/	1	1	/	. /	. /	.01
DC 1	2.4 3.8	3.2 2.3	4.1 1.5	2.0 3.9	2.02.0	2.32.7	2.11.0	211 1.5	-1.0 8.0	2.5 5.9
DC 2	2.42,4	3.5 2.9	0.8 6.0	1.5 4.0	2.0	3.91.9	2.41.0	2.2 1.7	-1.7 4.1	0.45.4
DC 3	3.02.1	2.02.4	0.8 1.9	1143.9	3.1	2.93.2	2.60.9	2.11.8	1.27.7	4.1 6.9
DC 4			3.2						-3.89.3	1.6 2.6
DC 5										4.7 5.0
DC 6										
DC 7										
DC 8										
DC AVG.										
AC 1	65.7	75,2	31.5	653	19.4	10.8	12.5	3.04	1-27	.783
AC 2	-0.1	+.1	0	-1.6	+0.1	>0	$\geq$	-0.1	+0.9	+0.2
AC AVG.										C
S.P.	-4	-2		- /			+2			
AC NOISE	102	.02		.02			.04			
POT RES.	5K	3K		2K			4K			

	HEINF	RICHS GE RECEIVER	0 E X P L O.R NOTES	ATION C	. PRO LINE	JECT	30: HALF	● ≝ ≝	DA	PA G E TE
SEND	4 5	3 4	2 3	1 2	4 5	3 4	2 3	1 2		CAL
RECEIVE	40-50NE				50-60NE	1				34
RANGE	- 1	.01	.01	.01	.01	.01	.01	.01		1
DC 1	4.0 2.9	-0.1 1.2	5.95.0	6.0 9.1	13-6 -1.6	10.0 13.0	5.921.6			-0.92.2
DC 2	4.5 2.7	-0.8 10.4	7.7 5.3	4.0,03	18.1 -6.71	10.0 19.5	0.1 21.4	Ć		-1.02.2
DC 3	393.2	12.7	5.7 5.8	3.0 10.0	3.0 11.7	6.715.1	-0.8/14.2			-1.0
DC 4		-2.8 13.1	626.8	3.1 10.1	1.5 14.0	2.32115	16.3 2.5	- /		
DC 5		-0.3 11.1		3.1 12.9	0 14.1	-2.1 14.3	23.0-17			
DC 6				5-2						
DC 7										
DC 8										
DC AVG.										
AC 1	2.30	.754	.365	-244	-828	.329	.183	.130		.995
AC 2	R	0	-0.1	+0.1	Ø.	+0.3	-0.2	+0.2		+0.2
AC AVG.	1									
S.P.	-2				-4					
AC NOISE					.01					
POT RES.	3k				4K					

			DEXPLORA	ATION CO.		JECT_	<u>308</u> HALF⊉		DA	PAGE
SEND	12	2 3	1 2	3 4	23	12	4 5	3 4	2 3	12
RECEIVE	0-10NE	10-20 NE		20-30NE			BOLYONE			
RANGE										
VOLTAGE	400	800	380	100	200	400	180	100	200	400
CURRENT	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SEND	4 5	3 4	23	12	4 5	3 4	23	12		CAL
RECEIVE	40-50NE				50-60NE					34
RANGE										
VOLTAGE	180	100	200	400	180	100	200	400		1000
CURRENT	1.0	1.0	100	1.0	1,6	1.0	1.0	1.0		6.0
FREQUEN	CIES 30	<u>·/</u>		COMMEN	ITS :					
SENDER	NO. 136	5715	And the second se							
OPERATO	R 71 V	157								
RECEIVE	R NO. 16	681R								
OPERATO	R /3									

0 - 6 - 6- 71 JOB 308-48 LINE / SPREAD SPREAD LOOKING N 15 W DATE Nov 68 A= 1000 CENTER 0.0 LABEL SW/NE FREQ. 3.0 COUPLING YES PFE PROGRAM بر معنی این ا مرد دارمه ورد مع PAGE HEINRICHS GEOEXPLORATION CO. PROJECT 308 I.P.RECEIVER NOTES \_ HALF \_ 5 75 % SP\_/ LINE / DATE. 4 53 44 52 33 44 51 33 44 22 5 SEND RECEIVE 0-105W 10-205W 20-30500 30-40 She 1 1 . 1 RANGE 10 1 10 10 3.9,1,4 2.5 41 2.0 2,1 0.9 2.5 2.3 40 2.0 5.1 3.0 0.9 3.0 0.0 5.9 -4.1 6.4 1.9 DC 1 28 -600 1,1 1,9 3.51,4 1.8.4.1 1.5 3,5 3.1/4,1 2.9 0.92.1 1.0 1.8 2.6 5-0-36 DC 2 1.9 -0.7 1.0 0.8 3.0 6.7/-03 8.0 3.3 0.5 3.7.2.9 11 40 4.2.2 3.12,61.63.8 DC 3 8.4 -1.5 1.8 4.0 2.8 0.9 -2.8 5.7 6.1 2.2 7.1-3.61 DC 4 -1.76.0 4.8-0.6 2.5 3.1 5.6 -0.3 7.0 DC 5 7.3 -1.6 DC 6 DC 7 DC 8 DC AVG. 73.4 8.77 149.0 132-62.2 238. 54.7 37.3 36.2 11.7 AC 1 AC 2 +0 +0 +0-6 -0.2 +0 70 +0 +0 -0.2 -0.0 AC AVG. S.P. -14 +9 +118 +52 AC NOISE .01 01 .02 07 POT RES. 24 1K 14 24

	)	)		)			)	)	)	PA G
	HEINF	ECEIVER	OEXPLOR NOTES	ATION C		JECT _		WSP.	/ D4	TF
SEND	1 2	23	3 4	4 5	1/ 2	23	3 4	4 5		CRU
RECEIVE	40-8054	•			50-6056					2
RANGE	-1		. /	. 1	- 1	1	-1	.1		10
DC 1		4.3 -0.9		1.4 3.1	7.3 - 7.2	8.9.0.7	50-2.8	9.8-1.6		-0.20
DC 2	5.8 -5.0	15.5-5.8	18.1-2.5	5.36.4	10.4 -160	-6.9,51	8.9 5.0	2-017.4		-0.20
DC 3	3.3 -17	-19 6.2	0.1 9.0	-54 5P	7.4 - 7.5	-2.10.9	3.2 9.4	-3.316.6		
DC 4	6.9 -3.5	-2368	1.33.5		14.0-8.0	7.8-5.9	-6.014.9	-7.3,7,2		
DC 5	7.0 -0.8	-1.8 5,4	5.2 2,1		13.0-13,1	15.0 -12.4	2.7 4.9	-1.9 7.8		1.
DC 6	3.6 0.4	-1.9 5.6	6.3 6.2		-0.950	4.4 10.9	3.4 5.3	-3.917.1		
DC 7					27-1.7	-8.1/2.7	8.75.1	-3.16.5	·	
DC 8										
DC AVG.										
AC 1	9-12	6.20	2.45	209	9.22	8.80	4.73	487		200
AC 2	+0.2	+0.1	0.0	+0-1	+2	+0.1	0.0	+0.1		-0.1
AC AVG.									4	
S.P.	- 3			-	+14				e <sup>rr</sup>	4
AC NOISE				-	.02					
POT RES.	1K	· ·			14					1

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	)	)		)			)	)	)	PAGE
			DEXPLOR	ATION CO		JECT_	308 HALF <u>s</u> :			L
SEND	4 5	3 4	4 5	23	3.4	4 5	1 2	23	3 7	4 5
RECEIVE	0-1050	10-2054		20-30 54			30-4054			
RANGE	Another and the second s									
VOLTAGE	276	220	270	290	220	270	220	280	220	290
CURRENT	20	2.0	2.0	2.0	2.0	2.0	1.2	2.0	2.0	2.0
SEND	12	2 3	3 4	4 5	12	23	34	4 5	ł	CAL
RECEIVE	40-5054	Χ.			50-6054					
RANGE										
VOLTAGE	220	280	220	270	220	290	220	270		290
CURRENT	1.0	20	2.0	2.0	1.0	2.0	2.0	2.0		20
FREQUEN	CIES 3. C	2 -/		COMMEN	ITS :					
SENDER I										
OPERATO	R 7/√	-57								
RECEIVE	R NO. /.	66811	R				3 1			
OPERATO	R 13									

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SEND		RECEIVER	10123	1		and the second se	HALF	1	1	-
RECEIVE	MINE	10-20NE		1	23	1 2	T	3 4	23	1
RANGE	1	10-20NE	1	20-30NE	1		30-40N		<u> </u>	+
DC 1	2.4 - 0			2.03.9	2.02.0	2.32.7	21	2.1 -	10	
DC 2		3.5 2.9	0.8 6.0		2.0	3.91.9	2.1 1.0	2.1 1.5	-1.0 8.0	2.5
DC 3		2.02.4	0.81.9			2.93.2	2.60.9	2.1.5	4.1	0.4
DC 4			3.2		\$ 1 d	- Sud	0.7	1.0	-3.8 9.3	
DC 5									The The	3 1.6
DC 6					-					4.7
DC 7										+
DC 8										+
DC AVG.										+
AC 1	65.7	75,2	31.5	65.3	19.4	10.8	12.5	3.04	1-27	-7
AC 2	-0.1	+.1 .	So.	-1.6	+0.1	X	X	-0.1	+0.9	1
AC AVG.						-			7	1
S.P.	-4	-2		- 1			+2			
AC NOISE	102	.02		.02			.04			T
		3K		28			46			1
POT RES.	HEINR	ICHS GE		ATION CO	D. PRO	JECT _	)	)	)	
	HEINR I.P.R	ECE I VER	NOTES		LINE	E_/	HALF	5 <u>#</u> SP.	) DA	L Ite
SEND	не і м я І.Р. Я 4 5	ECEIVER	0EXPLOR NOTES	1 2	LINE 4 5	3 4	) HALF NI	5 <u>#</u> SP.	T	2
SEND RECEIVE	HEINR I.P.R 4 5 40-50NE	ICHS GE ECEIVER 3 4	NOTES	/ 2	4 5 50-60 NE	3 4	HALF NZ	1 2	T	2
SEND RECEIVE RANGE	HEINR I.P.R 475 40-50NE	ECEIVER	NOTES 2 3	1 2	LINE 4 5 50-60 NE .01	3 4	HALFNI 23	1 2	T	23
SEND RECEIVE RANGE DC 1	HEINR I.P.R 40-50NE 1 40-200	ECEIVER	NOTES	. DI 6.0 9.1	LINE 50-60NE .01 13-6 -16	3 4	HALF N1 2 3 .01 5.9216	/ 2 	T	3
SEND RECEIVE RANGE DC 1 DC 2	HEINR I.P.R 4/5 4/0-SONE 1/4/0-2.9 4/5-2-7	-01 -01 -01	NOTES 2 3 .01 5.95.0 7.75.3	1 2 . D1 6.0 9.1 4.0 10.3	LINE 50-60 NE .01 13-6 -1.6 (9.1 - 5.7)	3 4 •01 •0.0 13.0	HALF N1 2 3 .01 5-9 21.6	<u>1 2</u> 	T	2 3 -0.
SEND RECEIVE RANGE DC 1 DC 2 DC 3	HEINR I.P.R 40-50NE 1 40-50NE 1 40-50 1 50 1 40-50 1 1 1 50 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-01 -01 -0.1 -0.2 -0.8 10.4 0.1 12.7	NOTES 2 3 .01 5.95.0 7.75.3 5.75.8	/ 2 . D] 6.0 9.1 4.0 10.3 3.0 10.0	LINE 50-60NE .01 13-6 -1.6 (9.1 -6.7/ 3.0 11.2	3 4 • 01 10.0 13.0 10.0 13.5 6.7 15.1	HALF <u>M1</u> 2 3 .01 5.9 21.6 0.1 21.4 -29/142	/ 2 .0/	T	2 3 -0.
SEND RECEIVE RANGE DC 1 DC 2 DC 3 DC 4	HEINR I.P.R 40-50NE 1 40-29 4.52.7 3.93.2	-01 -01 -0.2 -0.8 -0.4 -0.4 -0.7 -2.6 -0.4	NOTES 2 3 .01 5.95.0 7.75.3 5.75.8 6.26.8	/ 2 . D1 6.0 9.1 4.0 .0.3 3.0 10.0 3.1 .0 1	4 5 50-60NE .01 13-6 -1.6 (9.1 -6.7) 3.0 11.2 1.5 . 4 0	3 4 • 01 10.0 13.0 10.0 13.5 6.7 15.1 2.3 21.5	HALF N1 2 3 .01 5.921.6 0.121.4 -28/142 16.32.5	25 <u>F</u> SP. 2 2 2 2 2 2 2 2 2 2 2 2 2	T	2 3 -0.
SEND RECEIVE RANGE DC 1 DC 2 DC 3	HEINR I.P.R 40-50NE 1 40-29 4.52.7 3.93.2	-01 -01 -0.1 -0.2 -0.8 10.4 0.1 12.7	NOTES 2 3 .01 5.950 7.753 5.258 6.268	/ 2 . D1 6.0 9.1 4.0 .0.3 3.0 10.0 3.1 .0 1	LINE 50-60NE .01 13-6 -1.6 18.1 -6.7/ 3.0 11.7 1.5 14.0	3 4 • 01 10.0 13.0 10.0 13.5 6.7 15.1 2.3 21.5	HALF <u>M1</u> 2 3 .01 5.9 21.6 0.1 21.4 -29/142	25 <u>F</u> SP. 2 2 2 2 2 2 2 2 2 2 2 2 2	T	2 3 -0
SEND RECEIVE RANGE DC 1 DC 2 DC 3 DC 4 DC 5	HEINR I.P.R 40-50NE 1 40-29 4.52.7 3.93.2	-01 -01 -0.2 -0.8 -0.4 -0.4 -0.7 -2.6 -0.4	NOTES 2 3 .01 5.950 7.753 5.258 6.268	1 2 . 01 6.0 9.1 7.0 10.3 3.0 10.0 3.1 10.1 3.1 12.9	4 5 50-60NE .01 13-6 -1.6 (9.1 -6.7) 3.0 11.2 1.5 . 4 0	3 4 • 01 10.0 13.0 10.0 13.5 6.7 15.1 2.3 21.5	HALF N1 2 3 .01 5.921.6 0.121.4 -28/142 16.32.5	25 <u>F</u> SP. 2 2 2 2 2 2 2 2 2 2 2 2 2	T	T
SEND RECEIVE RANGE DC 1 DC 2 DC 3 DC 4 DC 5 DC 6	HEINR I.P.R 40-50NE 1 40-29 4.52.7 3.93.2	-01 -01 -0.2 -0.8 -0.4 -0.4 -0.7 -2.6 -0.4	NOTES 2 3 .01 5.950 7.753 5.258 6.268	1 2 . 01 6.0 9.1 7.0 10.3 3.0 10.0 3.1 10.1 3.1 12.9	4 5 50-60NE .01 13-6 -1.6 (9.1 -6.7) 3.0 11.2 1.5 . 4 0	3 4 • 01 10.0 13.0 10.0 13.5 6.7 15.1 2.3 21.5	HALF N1 2 3 .01 5.921.6 0.121.4 -28/142 16.32.5	25 <u>F</u> SP. 2 2 2 2 2 2 2 2 2 2 2 2 2	T	2 3 -0.
SEND RECEIVE RANGE DC 1 DC 2 DC 3 DC 4 DC 5 DC 6 DC 7	HEINR I.P.R 40-50NE 1 40-29 4.52.7 3.93.2	-01 -01 -0.2 -0.8 -0.4 -0.4 -0.7 -2.6 -0.4	NOTES 2 3 .01 5.950 7.753 5.258 6.268	1 2 . 01 6.0 9.1 7.0 10.3 3.0 10.0 3.1 10.1 3.1 12.9	4 5 50-60NE .01 13-6 -1.6 (9.1 -6.7) 3.0 11.2 1.5 . 4 0	3 4 • 01 10.0 13.0 10.0 13.5 6.7 15.1 2.3 21.5	HALF N1 2 3 .01 5.921.6 0.121.4 -28/142 16.32.5	25 <u>F</u> SP. 2 2 2 2 2 2 2 2 2 2 2 2 2	T	2 3 -0.
SEND RECEIVE RANGE DC 1 DC 2 DC 3 DC 4 DC 5 DC 6 DC 7 DC 8	HEINR I.P.R 40-50NE 1 40-29 4.52.7 3.93.2	-01 -01 -0.1 -0.1 -0.1 -0.1 -0.1 -0.1 -0	NOTES 2 3 .01 5.95.0 7.75.3 5.75.8 6.26.8 0	/ 2 . D1 6.0 9.1 4.0 10.3 3.0 10.0 3.1 10.1 3.1 12.4 5.2	LINE 50-60 NE .01 13-6 -1.6 (9.1 -6.7/ 3.0 11.2 1.5 14.0 0 14.1	<u> </u>	HALF N1 2 3 .01 5-9 21.6 0.1 21.4 -28/142 6.3 2.5 33.0-17	25 <u>E</u> SP. 2 2 2 2 2 2 2 2 2 2 2 2 2	T	
SEND RECEIVE RANGE DC 1 DC 2 DC 3 DC 4 DC 5 DC 6 DC 7 DC 6 DC 7 DC 8 DC 4VG.	HEINR I.P.R 4/5 4/0-50NE 1/4/0-2,9 4/5-2,7 3.9-3.2	-01 -01 -0.1 -0.1 -0.1 -0.1 -0.1 -0.1 -0	NOTES 2 3 .01 5.950 7.753 5.258 6.268	1 2 . D1 5.0 9.1 4.0 .0.3 3.0 10.0 3.1 10.1 3.1 12.4 5.2	4 5 50-60NE .01 13-6 -1.6 (9.1 -6.7) 3.0 11.2 1.5 . 4 0		HALF N1 2 3 .01 5-9 21.6 0.1 21.4 -28/142 16.3 2.5 23.0-17 33.0-17	·/30	T	
SEND           RECEIVE           RANGE           DC           B           DC           AC	HEINR I.P.R 4/5 4/0-50NE 1/4/0-2,9 4/5-2,7 3.9-3.2	-0.4 -0.5 -4 -0.5 -4 -0.5 -4 -0.5 -4 -0.5 -4 -0.5 -4 -0.5 -4 -0.5 -4 -0.5	NOTES 2 3 .01 5.95.0 7.75.3 5.75.8 6.26.8 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	/ 2 . D1 6.0 9.1 4.0 10.3 3.0 10.0 3.1 10.1 3.1 12.4 5.2	LINE 50-60 NE .01 13.6 -1.6 18.1 -6.7 3.0 11.7 1.5 14.0 0 14.1 -8 28	<u> </u>	HALF N1 2 3 .01 5-9 21.6 0.1 21.4 -28/142 6.3 2.5 33.0-17	25 <u>E</u> SP. 2 2 2 2 2 2 2 2 2 2 2 2 2	T	
SEND RECEIVE RANGE DC 1 DC 2 DC 3 DC 4 DC 5 DC 6 DC 7 DC 8 DC 7 DC 8 DC AVG. AC 1 AC 2	HEINR I.P.R 4/5 4/0-50NE 1/4/0-2,9 4/5-2,7 3.9-3.2	-0.4 -0.5 -4 -0.5 -4 -0.5 -4 -0.5 -4 -0.5 -4 -0.5 -4 -0.5 -4 -0.5 -4 -0.5	NOTES 2 3 .01 5.95.0 7.75.3 5.75.8 6.26.8 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	1 2 . D1 5.0 9.1 4.0 .0.3 3.0 10.0 3.1 10.1 3.1 12.4 5.2	LINE 50-60 NE .01 13.6 -1.6 18.1 -6.7 3.0 11.7 1.5 14.0 0 14.1 -8 28		HALF N1 2 3 .01 5-9 21.6 0.1 21.4 -28/142 16.3 2.5 23.0-17 33.0-17	·/30	T	
SEND         RECEIVE         RANGE         DC         B         D         A         A         A         D         A         D         A         A         A         A         A         A         A         A         A         A         A         D         A         D         D         D         D         D         D         <	HEINR I.P.R 4 5 40-50NE 1 70 - 2.9 4.5 - 2.7 3.9 - 3.2 2.30	-0.4 -0.5 -4 -0.5 -4 -0.5 -4 -0.5 -4 -0.5 -4 -0.5 -4 -0.5 -4 -0.5 -4 -0.5	NOTES 2 3 .01 5.95.0 7.75.3 5.75.8 6.26.8 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	1 2 . D1 5.0 9.1 4.0 .0.3 3.0 10.0 3.1 10.1 3.1 12.4 5.2	LINE 50-60 NE 50-60 NE 13-6 -1.6 19.1 -6.7/ 3.0 11.2 1.5 14.0 0 14.1 -8 28 0		HALF N1 2 3 .01 5-9 21.6 0.1 21.4 -28/142 16.3 2.5 23.0-17 33.0-17	·/30	T	
SEND         RECEIVE         RANGE         DC         AC         AC         AC         AC         AC         S.P.	HEINR I.P.R 40-SONE 1 40-SONE 1 40-29 4.5 2.7 3.9 3.2 3.9 3.2 3.9 3.2 4.5 2.7 3.9 3.2 4.5 2.7 3.9 3.2 4.5 2.7 3.9 3.2 4.5 2.7 5 7 9.7 9.	-0.4 -0.5 -4 -0.5 -4 -0.5 -4 -0.5 -4 -0.5 -4 -0.5 -4 -0.5 -4 -0.5 -4 -0.5	NOTES 2 3 .01 5.95.0 7.75.3 5.75.8 6.26.8 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	1 2 . D1 5.0 9.1 4.0 .0.3 3.0 10.0 3.1 10.1 3.1 12.4 5.2	LINE 50-60 N/E .01 13-6 -1.6 19.1 -6.7/ 3.0 11.7 1.5 14.0 0 14.1 -8 28 -8 28 -9 -4		HALF N1 2 3 .01 5-9 21.6 0.1 21.4 -28/142 16.3 2.5 23.0-17 33.0-17	·/30	T	

2 . A " . M	)	)		)			)	) .	)	PAGE
			DEXPLORA	TION CO.			308 HALF∞			TE
SEND	12	2 3	1 3	3 4	23	12	4 5	3 4	23	1 2
RECEIVE	0-10NE	10-20 NE		20-3048			BOLYONE			
RANGE										
VOLTAGE	400	800	380	100	200	400	180	100	200	400
CURRENT	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SEND	4 5	3 4	23	12	4 5	34		12		CAL
RECEIVE	40-50NE				50-60NE			× ·		3 4
RANGE				•						(
VOLTAGE	180	100	200	400	180	100	200	400		1000.
CURRENT	1.0	1.0	1.0	1.0	1,6	1.0	1.0	1.0		6.0
FREQUEN	CIES 30	!		COMMEN	TS:					
SENDER N	NO. 136	715								
OPERATOR	11							•		
RECEIVER		681R								
OPERATOR	7 /3									

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108 308-68 LINE SPREAD Z LOOKING NISW DATE Nor 19 A= 500 port CENTER O.O LABEL SW/NE FREQ: 3.0 26 nov68 COUPLING Yes

										PA G E
	HEINR	RICHS GE RECEIVER	OEXPLOR NOTES	ATION CO	D. PRO	JECT	<u>ع ر 3</u> HALF <u>م</u>	75 W SP.	<u>~</u> DA	TE
SEND	4 5	3 4	4 5	2 3	3 4	4 5	1/2	2 3	3 4	4 5
RECEIVE	0-55W	5-1050		10-155W			15-205W			
RANGE	10	10	1	10	1	1	10	10	1	/
DC 1	30.40	2.7 1.8	35 3.6	18 0.9	1.0 3.8	7.2 0.8	1.0 1.9	0.0 2.8	Statement of the local division of the local	2,6 4.9
DC 2	3.0	2.6 1.7	3,6 3,5	1.5 1.9	7-2-2-8		COT.F	0.000	2.7 1.9	3.0 4.1
DC 3				1.6 1.9 .		6.01.9				3.7 3.7
DC 4	-					5.01.9				
DC 5	-									
DC 6			!							
DC 7										
DC 8										
DC AVG.	-		L/							
AC 1	199.	162.5	54.4	339.	47.3	27.3	233.	118.	28.1	20,6
AC 2	0.0	0.0	0.0	0.0	0.0	0.5	+0.1	+0.1	70.4	+0.8
AC AVG.	1		l							
S.P.	+3	+1		+3			T(I)			
AC NOISE		102	ļ]	.02			.02			
POT RES.	14	2k		14			.1K			

	HEINR I.P.R	RICHS GE RECEIVER	0 E X P L O.R NOTES	ATION CO	0. PRO LINE	JECT	308 HALF <u>5</u>	• 7 <u>5 ~</u> SP		PAGE
SEND	12	2 3	3 4	4 5	1 2	2 3	3 4	4 5	C.	AL
RECEIVE	40-505W				50.60 SW				2	N.
RANGE	1	1	/	1						10
DC 1	30 0,9	40 -0.6		9.0 -2.2					01	1.1
		4.7 -1.1/	1.0 4.8	105-1.4	1				0.1	11
					MI	55ED	TIMED	SEND	>	
DC 4	2.6	30	0.840		ļ'			L		
DC 5		<b> </b> '	10 3.9	and the same the sa	ļ'		ļ/			
DC 6		<b> </b> '	ļ'	9.0	<b></b> '		ļ/			
DC 7		Į′	Ļ′	Ļ'	ļ'					
DC 8	ļ	<b>↓</b> '	ļ'	<b>↓</b> '	Į'		L			
DC AVG.				'	<b> </b> '	<b> </b>	<b>↓</b>			
AC 1	79.9	64.9	21.6	18.1	<b>├</b> ───′	<b> </b> '	┥───┥			21.0
	+0-5	+0-1	+ 0.4	+0.8	<b>├</b> ────′		───┤		+ 6	0.3
AC AVG.	-3	<b>├</b> ────′	<b>├</b> ───′	<b>├</b> ────′			┥───┥			
S.P.		<b>├</b> ────′	───′	<b>├</b> ────′	F/	<b>├</b> ────'	++			
AC NOISE	11	<b>├</b> ────′	<b>↓</b> ′	<b>├</b> ────′	.02	<b> </b> '	──┤			
POT RES.	IR	L'	<u>'</u> '	L′	400	<u> </u>				

		RICHS GEO P. SEN			. PRC	DJECT_	ک ۲۵۶-۵۲ HALF	• 754/SP.	2 DA	PAGE
SEND	5/25-	3-01	57 = 5-	2-3	31	\$1-5	1-2	2-3	3- 1/	4-5
RECEIVE	0.0	1 /6		10-12			15.00			
RANGE										
VOLTAGE	4420	3600	440 V	5800	360V	4400	3600	580V	3600	4400
CURRENT	2.017	2,07	2,07	2.0.17	2.047	2.0R	LIDA	2.0A	2.0A	2.0A
SEND	1-1	2-3	3 = 1 1	61-5	1-2	2-3	3-47	47.15		Cq/
RECEIVE	26.25				245-30					2-3
RANGE										
VOLTAGE	3600	5600	3701	4400	360 V	5602	3600	4400		2900
CURRENT	1.04	2,017	2. 0A	2.04	1.00	2,00	2.0 A	2.0A		1.017
FREQUEN SENDER OPERATO RECEIVE OPERATO	NO. 73 R 5 R NO.	_ <u>610</u> 571-4 7 12521-6		COMME	NTS: HIGH 20W	7110DÉ. 711/0DÉ	-3-47 - 4-5	, 2-3,	1-2	

	HEINF		0 E X P L O.R NOTES	ATION C	0. PRO LINE	JECT	30E HALF <u>N</u>	● <u><sup>75</sup> ∕ SP</u> .	DA	РА G Е <i>4</i> ТЕ
SEND	1 2	2 3	1 2	3 4	2 3	1.2	4 5	3 4	2 3	1 2
RECEIVE	0-5NE	5-10 ME		10-15 NE			15-20NR			
RANGE	10	10	1	10	/	/	10	/	1	L
DC 1	2.0 2.9	4.1 3.6	1,2 6.2	4.0 3.4	3/ 33	0,9 5.2	3.6 3,1	3,7 3.1	1.2 41	4.2 1.3
DC 2	23-259	4.33,5	1. 65	20 AL	3,7 3/	-0,8 7,41	3.5 3.1	3.2 3	let 4.1	3.8 1.5
DC 3		4,2 3,6	1. 615		3,5 3,2	3.9 2.0	3,5		1.2	3.4 1.3
DC 4						219 2,3				4.20.9
DC 5								· ·		
DC 6								1.		
DC 7							/			
DC 8									S	
DC AVG.										
AC 1	121.	196.	41.1	159.	55.4	19.6	375.	73.1	430	17.8
AC 2	+0.4	+0_3	t0,4	+0.1	+0.2	0.0	0,0	0.0	0.0	+0.1
AC AVG.			, 							
<u>S.P.</u>	18	-6		-6			+9			ļ
AC NOISE	1	.02		-02			102			
POT RES.	/k	1/K		2K			24			

			-							
			•							PAGE
	HEINF	RICHS GE	OEXPLOR	ATION C	PRO	JECT	308			
	I.P.R	RICHS GE RECEIVER	NOTES		LINE	_(	HALF N	75E SP.	2 DA	TE
SEND	4 5	3 4	2 3	1 2	4 5	3 4	23	1 2	1	CAL
RECEIVE	20-257VE				25-30NE					314
RANGE	1	1	/	./	./					10
DC 1			1.9 4.1	1.0 6.0						0.0 0.8
DC 2	33 3.6	5,12.2	0,9 5.0	-2,6 11/						0.1 0.9
DC 3	32 38	5,0 2.9	0,5 5.0	40 00/		SITTI	NG 0	N FAC	LT	2.1
DC 4			0,8 5,3	51 -1.0			ONT	BUCK	SP	
DC 5				5.2 -11		ACA	10156	HIG	M	
DC 6										, 45
DC 7										1.2
DC 8										
DC AVG.					$\mathbf{N}$	X	-			
AC 1	86.6	26.8	19.9	9.43	9.Å3	3.455				203
AC 2	0.0 -	10.7	+0.1	0.0	$\langle \rangle$					-0,1
AC AVG.						1				,
S.P.	+15									
AC NOISE	.02									
POT RES.	34				/					
	(									

			DEXPLOR	ATION CO. OTES		JECT_	B BALF	the second s		PAGE
SEND	1-2	2-3	1-2	3-11	2-3	1-2	4-5	2.11	2-3	1-2
RECEIVE	B-5	5-16	1-7	10-15		~~~>>	15-20			$\rightarrow$
RANGE										
VOLTAGE	540V	580 V	540V	3901	580V	540 V	460 V	390V	580 V	540 V
CURRENT	1.5 A	2.0 A	1.5 A	9.0 A	2.0A	1.5A	2.0 A	2.0A	2.0A	1.5A
SEND	4-5-	3-41	2.3	7 -2	21-5	8-4				2.1
RECEIVE	20-25			$\rightarrow$	25-30					500
RANGE										3-4
VOLTAGE	460 V	390 V	580 V	540V	460 V	390 V				3901
CURRENT	2.0 A	2.0 A	2.0 A	1.5 A	2.0A	2.0A				9.0,A
FREQUENC SENDER N		<u>0.10</u> 71-5		COMMEN	ITS :					
OPERATOR		73								
OPERATOR		13								

JOB 308-68 LINE SPREAD 2 LOOKING ALSW DATE Nov 19 A= 500 port CENTER O.O LABEL SW/NE FREQ. 3.0 <>> 26 Nort6 } COUPLING YES a Cardena and PAGE HEINRICHS GEOEXPLORATION CO. PROJECT \_\_\_\_\_ 303 I.P.RECEIVER NOTES LINE / HALF ST5W SP. 2 DATE. 44 51 4 53 44 52 33 SEND 22 33 44 5 RECEIVE 0-554 5-1054 10-155W 15-205W RANGE 0 10 1 10 10 27 1.8 18 0.9 35 3.6 1.0 3-8 30,40. 7.2 0.8 1.0 1.9 2,6 DC 1 0.0 2,8 2.6 2.0 4.9 2.6 1.7 36 35 1.5 1.9 The 28 DC 2 6.51.8 21.4 27 1.9 3.0 4.1 6.01.9 1.6 1.9 DC 3 3.7 3.7 5.01.9 DC 4 DC 5 DC 6 DC 7 DC 8 DC AVG. 233. 28.1 AC 1 99. 162.5 54.4 339. 473 27.3 118. 20,6 AC 2 0.0 0-0 0.5 0.0 +0.1 70.4 0.0 0.0 +0.1 +0.8 AC AVG. S.P. +5 +1 +3 +11 AC NOISE .02 102 .02 .02 POT RES. 26 15 14

with a m	)	)		)			)	)		Τ
		RICHS GE	EOEXPLO.P	ATION C		).IFCT	308			
	I.P.F	RECEIVER	NOTES			E _/		754SP	2_D/	ΔΤΕ
SEND	1 2	2 3	3 4	4 5	1 2	1	1	4 5		N 44
	40-505h			1 3	50-60 SW		3 4	4 -	+	C.F
RANGE	1	1	1	1	50-6030	+	+		+	2
DC 1	30 0,9	40-0.6	2.23.7	9.0 -2.2	+	+			+	01
DC 2		4.7 -1.11	1.0 48	105-14	1	1	+	<u> </u>		0.1
DC 3	3.0 0.6	0.13.1	024,5	85-08		55ED	TIMED	SEN	b	-
DC 4	3.0 0.6	30	0.840	86 -1.0			1 compassion		4	+
DC 5			1.0 3.9	8.7 -20						
DC 6		ļ		9.0						
DC 7					ļ					
DC 8				ļ						
DC AVG. AC 1	700	640	1246							+
AC 2	79.9 +0-6	64.9	21.6 + 0.4	18.1	4	╂────			+	10
AC AVG.	70-0	TU-1	7 0.7	10.0		<del> </del>	+		+	+0
S.P.	-3		†	· · · · ·	-1				1	
AC NOISE	. 2		1		.02	+			+	+
POT RES.	IR	1			400				<u>+</u>	+
, 8 , 8	)	(~~)	· · · · · · · · · · · · · · · · · · ·	, and and , a n i sana			)		)	P
	) HEINRI			TION CO.	PRO	JECT_	) 308-68 HAI ESZ	5469	)	
	) Heinri I. P	SEN	DER NO	TES	LINE	140	HALF-52			TEZ
send	) HEINRI I. P 4-5-	3 -1/		2-3	PRO LINE	JECT	HALF <u>52</u> /- 2	<b>54/SP</b> .	) a DA 3- 4/	
SEND RECEIVE	) Heinri I. P	SEN	DER NO	TES	LINE	140	HALF-52			TE
SEND RECEIVE RANGE	) HEINRI I. P 4-5- 12-5-	? SEN 3 ~ 1/ 4 - /6	24-5-	2-3 70-45	LINE 3/	4-5	HALF <u>5</u> 15-20	2-3	3- 4/2	TE
SEND RECEIVE RANGE VOLTAGE	) HEINRI I. P. 4-5- 5-5- 440v	3 - 1/ 5 - /G 360V	4-5- 440 v	2-3 70-15 5804	3 1 360v	<u>11-5</u> 440v	HALF 2 15-20 3600	2-3	3- 4/	TE/2
SEND RECEIVE RANGE VOLTAGE CURRENT	) HEINRI I. P. 4-5- 70-5- 440v 2.09	3 - 1/ 5 - / 6 360v 2.0 R	4-5- 440 v	2-3 70-15 5804	LINE 3/	1-5 440v 2.0R	HALF 2 15-20 3600 110 A	2-3 5804 2.0A	3- 4/2	TE2 41
SEND RECEIVE RANGE VOLTAGE CURRENT	) HEINRI I. P. 4-5- 5-5- 440v	3 - 1/ 5 - /G 360V	4-5- 440 u 2.04	2-3 70-15 5804	3 1 360v	<u>11-5</u> 440v	HALF 2 15-20 3600	2-3	3- 4/	TE/2
SEND RECEIVE RANGE VOLTAGE CURRENT SEND	) HEINRI I. P. 4-5- 70-5- 440v 2.09	3 - 1/ 5 - / 6 360v 2.0 R	4-5- 440 u 2.04	2-3 10-15 5804 2.9A 21-5	3- 41 360v 2.047	1-5 440v 2.0R	HALF 2 15-20 3600 110 A	2-3 5804 2.0A	3- 4/	TE2 
SEND RECEIVE RANGE VOLTAGE CURRENT SEND	) HEINRI I. P. 4-5- 2-5 440v 2.09 1-2	3 - 1/ 5 - / 6 360v 2.0 R	4-5- 440 u 2.04	2-3 10-15 5804 2.9A 21-5	LINE 3 1 360v 2.047 1- 2	1-5 440v 2.0R	HALF 2 15-20 3600 110 A	2-3 5804 2.0A	3- 4/	TE/2
SEND RECEIVE RANGE VOLTAGE CURRENT SEND RECEIVE	) HEINRI I. P. 4-5 2-5 4404 2.019 1-2 20-25	3 - 1/ 5 - / 6 360v 2.0 R 2-3	4-5- 440 u 2.04	2-3 10-15 580v 2.9A 41-5	LINE 3 1 360v 2.047 1- 2	440v 2.0R 2-3	HALF 2 15-20 3600 1.0 A 3-4	2-3 580¥ 2.0A 4-5	3- 4/	TE/2
SEND RECEIVE RANGE VOLTAGE CURRENT SEND RECEIVE RANGE	) HEINRI I. P. 4-5- 2-5 440v 2.09 1-2	3 - 1/ 5 - / 6 360v 2.0 R	2.0A 3 - 1	2-3 10-15 580v 2.9A 41-5	LINE 3 1 360v 2.047 1	1-5 440v 2.0R	HALF 1-2 15-20 3600 1.0 A 3-4 3606	2-3 5801 2.0A 4-5	3- 4/	TE/2 4/2 2-3 2.9
SEND RECEIVE RANGE VOLTAGE CURRENT SEND RECEIVE RANGE VOLTAGE VOLTAGE CURRENT	) HEINRI I. P. 4-5 2-5 440v 2.09 1-2 20-25 360v 1.04	3 - 1/ 5 - /6 360v 2.0R 2-3 560v 2.0R 2-3	2.0.17 3 + (1)	2-3 10-45 580V 2.0A 440V 2.0A	LINE 31 360v 2.047 12 25-30 360v #.077	1-5 	HALF 1-2 15-20 3600 1.0 A 31 3606 2.0 A	2-3 580¥ 2.0A 4-5	3- 4/	TE/2 47. 2.9 2.9
SEND RECEIVE RANGE VOLTAGE CURRENT SEND RECEIVE RANGE VOLTAGE CURRENT FREQUENC	) HEINRI I. P 4-5 2.07 1-2 20-25 3600 1.04 2.07 1-2 20-25	3 - L/ 5 - /G 360V 2.0R 2-3 560V 2,0R 2-3 500V 2,0R	2.0.17 3 + (1)	2-3 10-45 5804 2.0A 41-5	LINE 31 360v 2.047 12 25-30 360v H.07 TS:	440 2.07 2-3 560 2.07	HALF 1-2 15-20 3600 1.0A 3-4 3606 2.0A -3-4	2-3 5801 2.0A 4-5 4-5	3- 4 360U 2.0A	TE/2 41 2,0 2,9
SEND RECEIVE RANGE VOLTAGE CURRENT SEND RECEIVE RANGE VOLTAGE CURRENT FREQUENC SENDER N	) HEINRI I. P. 4-5 2-5 440v 2-09 1-2 20-25 20-25 360v 1.04 21ES <u>3.0</u> 10. 136	3 - 1/ 5 - /6 360v 2.0R 2-3 560v 2.0R 2-3	2.0.17 3 + (1)	2-3 10-45 580V 2.0A 440V 2.0A	LINE 31 360v 2.047 12 25-30 360v H.07 TS:	440 2.07 2-3 560 2.07	HALF 1-2 15-20 3600 1.0A 3-4 3606 2.0A -3-4	2-3 5801 2.0A 4-5 4-5	3- 4 360U 2.0A	TE/2 41 2,0 2,9
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SEND RECEIVE RANGE VOLTAGE CURRENT SEND RECEIVE RANGE VOLTAGE CURRENT FREQUENC SENDER N	) HEINRI I. P. 4-5 2-5 440v 2-07 1-2 20-25 20-25 360v 1.0A 21ES <u>3.0</u> 10. 136 5 8 NO. 1	3 - L/ 5 - /G 360V 2.0R 2-3 560V 2,0R 2-3 500V 2,0R	2.017 2.017 2.017	2-3 10-45 580V 2.0A 440V 2.0A	LINE 31 360v 2.047 12 25-30 360v H.07 TS:	440 2.07 2-3 560 2.07	HALF 1-2 15-20 3600 1.0A 3-4 3606 2.0A -3-4	2-3 5801 2.0A 4-5 4-5	3- 4 360U 2.0A	TE2 41 71 71 71 71 71

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	I.P.F	RECEIVER	NOTES		LINE		HALF /	75 E SP.	_2_ DA	TE
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RECEIVE	D-5NE	5-10NE		10-15NE	1	1	15-20NR	1		
RANGE	10	10	1	10	1	1.	10	1	1	a
DC 1	2.0 2.9	4.1 3.6	1,2 6,2	4.0 3.4	3,1 3,3	0,9 5.2	3,6 3,1	3,7 3.1	1.2 11	4.2 1.3
DC 2	2329	4.33,5	11 65	77334	3,7 3/	-08 741	35 21	3.2 37	1.1 41	3.8 13
DC 3		4,2 3,6	11 615		3,63,2	-0,8.7,41 3.9 2.0	3,5	· - 7X	1.2	3.9 1.3
DC 4		,0	015			218 2 3			12	47
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T	18	-6		-6			+9		L.	
AC NOISE	102	.02		.02			102			
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	1.P.R 4 5	ECEIVER 3 4	NOTES	ATION C	4 · 5		) 308	And South to search and search and	ton workers the second second second	
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SEND RECEIVE RANGE DC 1	I.P.R 4 5 20-2870F 1 3.3 2.0	ECE I VER 3 4 	NOTES	ATION CI	4 · 5		308 HALF <u>N</u>	And South to search and search and	ton workers the second second second	CAL 3 / 0
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SEND RECEIVE RANGE DC 1	I.P.R 4 5 20-2870F 1 3.3 2.0	ECE I VER 3 4 	NOTES	ATION CI 1 2 1.0 6.0 -36.1111	4 · 5	3 4	) 308 HALF <u>N</u> 23			CA2 3 / 0 0.0 0.4 0.1 0.4
SEND RECEIVE RANGE DC 1 DC 2 DC 3	1.P.R 4 5 20-28711E 1	ECE I VER 3 4 	NOTES 2 3 1 1.9 4.1 0.9 5.0 0.7 5.0	ATION CI 1 2 .1 1.0 6.0 -36 111/ 40 00	4 · 5		) 308 HALF <u>N</u> 23	1 Z N FAC	1LT	CA 3 ) 0 10 0.0 0.4 0.1 0.4 0.1
SEND RECEIVE RANGE DC 1 DC 2 DC 3 DC 4	1.P.R 4 5 20-2870F 1 3.3 2.0	ECE I VER 3 4 	NOTES	ATION C 1 2 .1 1.0 6.0 -3.6 11.1 40 00 51 -2.0	4 · 5	3 4 3 4 5 ITT 1 COUL	308 HALF <u>N</u> 23 (NC 0 ONT	I Z N FAU BUCK	LT. SP =	CA 3 ) 0 10 0.0 0.4 0.1 0.4 0.1
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SEND RECEIVE RANGE DC 1 DC 2 DC 3 DC 4 DC 5 DC 6	1.P.R 4 5 20-2870F 1 3.3 2.0	ECE I VER 3 4 	NOTES 2 3 1 1.9 4.1 0.9 5.0 0.7 5.0	ATION CI 1 2 .1 1.0 6.0 -36 11.1/ 40 00 51 -20	4 · 5	3 4 3 4 5 ITT 1 COUL	308 HALF <u>N</u> 23 (NC 0 ONT	I Z N FAU BUCK	LT. SP =	CAR 3 ) 0 10 0.0 0.1 0.1 0.1 1.0 1.0 1.0
SEND RECEIVE RANGE DC 1 DC 2 DC 3 DC 4 DC 5 DC 6 DC 7	1.P.R 4 5 20-2870F 1 3.3 2.0	ECE I VER 3 4 	NOTES 2 3 1 1.9 4.1 0.9 5.0 0.7 5.0	ATION CI 1 2 .1 1.0 6.0 -36 11.1/ 40 00 51 -20	4 · 5	3 4 3 4 5 ITT 1 COUL	308 HALF <u>N</u> 23 (NC 0 ONT	I Z N FAU BUCK	LT. SP =	CA 3 ) 0 10 0.0 0.2 0.1 0.2 0.1
SEND RECEIVE RANGE DC 1 DC 2 DC 3 DC 4 DC 5 DC 6 DC 7 DC 8	1.P.R 4 5 20-2870F 1 3.3 2.0	ECE I VER 3 4 	NOTES 2 3 1 1.9 4.1 0.9 5.0 0.7 5.0	ATION CI 1 2 .1 1.0 6.0 -36 11.1/ 40 00 51 -20	4 · 5	3 4 3 4 5 ITT 1 COUL	308 HALF <u>N</u> 23 (NC 0 ONT	I Z N FAU BUCK	LT. SP =	CAR 3 ) 0 10 0.0 0.1 0.1 0.1 1.0 1.0 1.0
SEND RECEIVE RANGE DC 1 DC 2 DC 3 DC 4 DC 5 DC 6 DC 7 DC 6 DC 7 DC 8 DC 4VG.	1.P.R 20-2570F / 3.3 3.9 3.3 3.9 3.3 3.9 3.2 3.87 3.2 3.87 	ECE I VER 3 4 4.9 2.6 5.0 2.9	NOTES 2 3 / 1,9 4./ 0,9 5.0 0,9 5.0 0,9 5.3 0,9 5.3	ATION CI 1 2 .1 1.0 6.0 -3.6 11.1/ 40 00 5.2 -(1) 5.2 -(1)	LINE 4 · 5 25-30NE • 1	3 4 3 4 5177 COUL AC M	308 HALF <u>N</u> 23 (NC 0 ONT	I Z N FAU BUCK	LT. SP =	CA 3 ) 0 3 ) 0 0.0 0.1 0.2 0.1 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
SEND         RECEIVE         RANGE         DC         B         DC         A         N	I.P.R 4 5 20-2870F 1 3.3 3.4 3.3 3.4 3.5 3.4 3.5 3.4 3.5 3.4 5 5 5 5 5 5 5 5 5 5 5 5 5	ECE I VER 3 4 1 4.9 2.6 57 2.9 57 2.9 2 6.8	NOTES 2 3 / /.9 4./ 0.9 5.0 0.9 5.0 0.9 5.3 0.9 5.3 1.9.9	ATION C 1 2 .1 1.0 6.0 -36.1111 40 00 5.2 -11 5.2 -11 9.4 3	4 · 5	3 4 3 4 5 ITT 1 COUL	308 HALF <u>N</u> 23 (NC 0 ONT	I Z N FAU BUCK	LT. SP =	CA 3 ) 0 3 ) 0 0.0 0.1 0.2 0.1 0.2 0.2 0.1 0.2 0.2 0.2 0.1 0.2 0.2 0.2 0.1 0.2 0.2 0.2 0.1 0.2 0.2 0.1 0.2 0.1 0.2 0.2 0.2 0.2 0.2 0.2
SEND RECEIVE RANGE DC 1 DC 2 DC 3 DC 4 DC 5 DC 6 DC 7 DC 6 DC 7 DC 8 DC 7 DC 8 DC AVG. AC 1 AC 2	I.P.R 4 5 20-2870F 1 3.3 3.4 3.3 3.4 3.5 3.4 3.5 3.4 3.5 3.4 5 5 5 5 5 5 5 5 5 5 5 5 5	ECE I VER 3 4 4.9 2.6 5.0 2.9	NOTES 2 3 / 1,9 4./ 0,9 5.0 0,9 5.0 0,9 5.3 0,9 5.3	ATION CI 1 2 .1 1.0 6.0 -3.6 11.1/ 40 00 5.2 -(1) 5.2 -(1)	LINE 4 · 5 25-30NE • 1	3 4 3 4 5177 COUL AC M	308 HALF <u>N</u> 23 (NC 0 ONT	I Z N FAU BUCK	LT. SP =	CA 3 ) 0 3 ) 0 0.0 0.1 0.2 0.1 0.2 0.2 0.1 0.2 0.2 0.2 0.1 0.2 0.2 0.2 0.1 0.2 0.2 0.2 0.1 0.2 0.2 0.1 0.2 0.1 0.2 0.2 0.2 0.2 0.2 0.2
SEND RECEIVE RANGE DC 1 DC 2 DC 3 DC 4 DC 5 DC 6 DC 7 DC 6 DC 7 DC 8 DC 7 DC 8 DC AVG. AC 1 AC 2 AC AVG.	I.P.R 4 5 20-2870F / 3.3 3.9 3.3 3.9 3.2 3.8 3.2 3.8 5 5 5 5 5 5 5 5 5 5 5 5 5	ECE I VER 3 4 1 4.9 2.6 57 2.9 57 2.9 2 6.8	NOTES 2 3 / /.9 4./ 0.9 5.0 0.9 5.0 0.9 5.3 0.9 5.3 1.9.9	ATION C 1 2 .1 1.0 6.0 -36.1111 40 00 5.2 -11 5.2 -11 9.4 3	LINE 4 · 5 25-30NE • 1	3 4 3 4 5177 COUL AC M	308 HALF <u>N</u> 23 (NC 0 ONT	I Z N FAU BUCK	LT. SP =	CA 3 ) 0 3 ) 0 0.0 0.1 0.2 0.1 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
SEND RECEIVE RANGE DC 1 DC 2 DC 3 DC 4 DC 5 DC 6 DC 7 DC 6 DC 7 DC 8 DC 7 DC 8 DC AVG. AC 1 AC 2 AC AVG. S.P.	1.P.R 4 5 20-2870F 1 3.3 3.9 3.3 3.9 3.2 3.8 	ECE I VER 3 4 1 4.9 2.6 57 2.9 57 2.9 2 6.8	NOTES 2 3 / /.9 4./ 0.9 5.0 0.9 5.0 0.9 5.3 0.9 5.3 1.9.9	ATION C 1 2 .1 1.0 6.0 -36.1111 40 00 5.2 -11 5.2 -11 9.4 3	LINE 4 · 5 25-30NE • 1	3 4 3 4 5177 COUL AC M	308 HALF <u>N</u> 23 (NC 0 ONT	I Z N FAU BUCK	LT. SP =	CA 3 ) 0 3 ) 0 0.0 0.1 0.2 0.1 0.2 0.2 0.1 0.2 0.2 0.2 0.1 0.2 0.2 0.2 0.1 0.2 0.2 0.2 0.1 0.2 0.2 0.1 0.2 0.1 0.2 0.2 0.2 0.2 0.2 0.2
SEND RECEIVE RANGE DC 1 DC 2 DC 3 DC 4 DC 5 DC 6 DC 7 DC 6 DC 7 DC 8 DC 7 DC 8 DC AVG. AC 1 AC 2 AC AVG.	1.P.R 4 5 20-2870F 1 3.3 3.9 3.3 3.9 3.2 3.8 3.2 4.8 3.2 5.8 3.2 5.8 3.2 5.8 3.2 5.8 3.2 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8	ECE I VER 3 4 1 4.9 2.6 57 2.9 57 2.9 2 6.8	NOTES 2 3 / /.9 4./ 0.9 5.0 0.9 5.0 0.9 5.3 0.9 5.3 1.9.9	ATION C 1 2 .1 1.0 6.0 -36.1111 40 00 5.2 -11 5.2 -11 9.4 3	LINE 4 · 5 25-30NE • 1	3 4 3 4 5177 COUL AC M	308 HALF <u>N</u> 23 (NC 0 ONT	I Z N FAU BUCK	LT. SP =	CA 3 ) 0 3 ) 0 0.0 0.1 0.2 0.1 0.2 0.2 0.1 0.2 0.2 0.2 0.1 0.2 0.2 0.2 0.1 0.2 0.2 0.2 0.1 0.2 0.2 0.1 0.2 0.1 0.2 0.2 0.2 0.2 0.2 0.2

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	HEINR	RICHS GEO	DEXPLORA		LINI	JECT_	HALF_A	6 P 155ESP	Z DA	TELLA
SEND	12	2-7	1-2	3-11	2-3	1-2	4-5	3-4.	2-3	1-2
RECEIVE	6-5	510	Lang	10-15			15-20			$\rightarrow$
RANGE										- s e la rech
VOLTAGE	540V	580 V	540V	390 V	580V	540 V	460 V	390V	580 V	5401
CURRENT	1.5A	2.0 A	1.5 A	9.0 A	2.0A	1.5A	2.0 A	2.0A	2.0A	1.5 F
SEND	4-5-	3-41	2-3	7-2	11-5	3-4				2 = 1
RECEIVE	20-25			$\rightarrow$	25-30		6	\$ 		500
RANGE				•						324
VOLTAGE	460 V	390 V	580 V	540V	460 V	390 V				390
CURRENT	2.0A	2.0 A	2.0 A	1.5 A	2.0A	2.0A				9.0,A
FREQUEN	CIES 30	0.10		COMMEN	ITS :					
SENDER N	7									
OPERATOR		73						•		
RECEIVER		6681-R								
OPERATO		13								
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JOB 308-CV LINE / SPREAD 3 LOOKING NIS W DATE New 21 A= 1000 port CENTER 60.0 LABEL NE/NE FREQ. 3.0 27 nov68 COUPLING YES

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	HEINE	RICHS GE				IFCT	3/19			
		RECEIVER	NOTES	ATTUN CI	LINE		LAIES	154CD	<u>3</u> DA	
	1.1.1		NOTES			•			UA	
SEND	4 5	34	4 5	2 3	3 4	4 5	12	2 3	3 4	4 5
RECEIVE	60-50NE	50-48NE		40-30NE			30-20NE			
RANGE	- 1	, /	-01	. /	. /	.01	/	. /	. /	.01
DC 1	3.9 4.0	2.0 1.8	1.5 14.0	7.1 -1.9	2.8 0.2	-7.6 404	-0. 6.1	5.5 5.0	0.419.2	
DC 2	-1.9 10.0/	2710	0. 2 16.9		9.7 -0.9		-0.5 6.5	1. 4 4. 1	.0.836.8	
DC 3	4.1 -2.6	3. 1 0.8	-4.119.1	3.8 1.6	9.0 -2.1	-8.4 30.0	-0.45.8	3.05.0	-33.2 440	
DC 4	11.8-10.11	3.8 0.1	0.6 15.1		11.0 -5.0	1.4 15.2	-0.8 6.2	1.8 8.9	18.4 395	
DC 5	2.7-14		3.1 12.7	1.0 4.1	14.5 -6.4	16.4 12.0		-4.1 15.0	16.8 -0.8	
DC 6	10.3_9/		4.9 6.8	-0.6	158.8.0	8.4 18.8		-5.316.2	208 8.4	
DC 7			3.0 12.1					-10.8		
DC 8										
DC AVG.										
AC 1	3.22	7.13	.504	3.58	1.14	.187	10.3	1.73	1.00	.210
AC 2	+0.1	+0.1	+1.0	-0.1	0.0	+0.5	0.0	+0.1	-0.1	+0.5
AC AVG.										
S.P.	- 6	-8		-9.	1	4	+3.	t	7	
AC NOISE	.01	.01	(	.01			.04			
POT RES.	9k	24		2K			IK			

	HEINR I.P.R	ECEIVER	0 E X P L O.R NOTES	ATION C	. PRO	JECT	308 HALFS	● <u>&gt;</u> > <u>&gt;</u> SP	PAGE 2 3_DATE
SEND	12	2 3	3 4	4 5	12	23	3 4	4 5	CAL
RECEIVE	20-10NE				10-0 NE				2 3
RANGE	, 1	. /	.01	,01	. 1	.01	.01		10
DC 1	0.1 9.7	3.1	-7.2 35.G		-2.2 5.0				0.3 0.9
DC 2	5.8 -1.9	5.1 3.1	8.8 16.4	(	7.1 - 7.0				0.3 0.9
DC 3	17.9/ 1.9	12.6 8.0	31.5 -16.4		14.1-5.0				
	6.9 2.5	2.1 11.1	45.2 13.6		11.8 7.9				
	4.0 5.6		38.0/536	5	5.1 -1.9				
DC 6	1.9 5.4		-31.6 52.4		11.0 - 4.9				
	3.6 5.8	13.1 19.1	-16.0 480		5.7 5.0		2		
	2.9 5.9	11.1	.11.635.6		1.0 6.9				
DC AVG.									
AC 1	4.55	1.26	.800	-199	1.54	.509	.391		154.0
AC 2	+0.1	-0.2	10.5		+0.0				-0.1
AC AVG.									
S.P.	-12				0				L.
AC NOISE	.05			ſ	105				
POT RES.	IK				IK				

		RICHS GEO P. SEN			PRO		308-6 HALF <u>5</u>	8 7 <u>5 h</u> SP.	<u></u> DA	PAGE 3 TE <u>//-2/</u>
SEND	4-5	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-0	37-5
RECEIVE	0-10	10-20	- >	20-50		>	30-00			$\rightarrow$
RANGE										
VOLTAGE	150 V	340 V	150V	240 V	240 V	150V	260 V	240V	240 V	150 V
CURRENT	1.5 A	3.0A	1.5 A	1.5A	2.0A	1.5 A	2.0 A	1.5A	2.0 A	1.5A
SEND	1-2	2-3	3-11	d1-5-	1-2	2-5	3-7	21- 04		CAL
RECEIVE	10-20	-C-C+ A-44			50-60			$\longrightarrow$		1000
RANGE										2-3
VOLTAGE	2601	240 V	240 V.	150 V	260 V	240 V	240 V	150.V		295 V
CURRENT	2.0 A	1.5 A	2.0A	15A	9.0 A	1,5 A	2.0A	1.5 A		1,5A
FREQUEN		2 0.10	2	COMMEN	ITS :					
SENDER	NO. 136	71-5								
OPERATO	R	73								
RECEIVE	R NO.									
OPERATO	R									

and a set of a set of

1.										
	HEINR		0 E X P L O.R	ATION C	. PRO	JECŢ _	308	•	•	PAGE 4
	1.2.8	ECEIVER	NUTES		LINE		HALF	<u>75€</u> SP	<u></u> DA	TE
SEND	1 2	2 3	12	3 4	23	12	4 5	3 4	2 3	12
RECEIVE	60-70 NE	10-80 NE		80-90NE			90-100NE			
RANGE	- 1	. /	.01	/	.01	-01	. 1	.01	,01	
DC 1	4.0 0.8	4.1-1.1	15.6 - 8.8	4.02.0	12,10.9	-0.8 36,8	7.4 4.0	19.8 3.9	-2.8 45.8	
DC 2	2.7 2.1	4.9 -1.3	20.7-10.3	4.1 2.0	13.7-0.5	-8.0 39.6	5.1/2.9	15.3 9.0	3.6 79.6	
DC 3	1.7 3.3	5.0 -17		4.1	15.0 -1.0	-9.2 HQA	80 10		3.2 40.0	
DC 4	-0.1 6.8	5.0-1.7	22.9-13.2		17.0-4.4	-16.8 520	10.2 -1.0.	4.9 208		
DC 5			12.7-1.0		19.9 -6.4	29.8 60.0	12,1-3.0	0.723.8	14.0 28.0	
DC 6			27.1-9.1		22.7-8.1		14.2 -4.8	-3.9/150	23.6 20.0	
DC 7								6.9 12.5		
DC 8								2.7		
DC AVG.										
AC 1	600	5.39	.844	10.1	.864	.266	2,50	.636	.158	
AC 2	-0.1	-0.1	+0.0	0.0	0.0	+1.0	+0.6	-0.1	-21	
AC AVG.							FENC	5 950	105 NE	
S.P.	-10	+ 2		-1		-	- 1)	t.		
AC NOISE	.01	.01	à	.01			,01			
POT RES.	IK	1K		1K			26			

	-							
	HEINRICHS I.P.RECEIN	GEOEXPLORA VER NOTES	ATION C	•. PRO LINE	JECT _		0 <u>8</u> 115ESP. 7	PAGE 5
SEND				1		1		CAL
RECEIVE						1		3 4
RANGE		FEN	CE			1		10
DC 1			×			1		0.10.4
DC 2					$\square$			0.10.4
DC 3				Λ	2	1		
DC 4								
DC 5								
DC 6								
DC 7						1		
DC 8				$Z \rightarrow$		1		
DC AVG.								
AC 1								251.0
AC 2								0.0
AC AVG.								
S.P.								
AC NOISE								
POT RES.								

		NICHS GEO P. SEN		ATION CO.	PRC		SDB-G	P 754SP.	<u> </u>	PAGE 6 TE <u>//-2/</u>
SEND	1-2	2-3	1-2.	3-21	2.3	1-2	4.5	3-4	2.3	1-2
RECEIVE	0-10	10-20		20-30			30-40			-7
RANGE										
VOLTAGE	320 V	375 V	320V	.340 V	375V	390V	280V	340 V	375 V	390 V
CURRENT	2.5 A	2.5 A	2.5A	3.0	2.5A	3.0A	3.0A	3.0 A	2.5 A	3.0A
SEND	4-5	3-4	2-3	1-2	4.5	3-4	2.3	12		CAL
RECEIVE	46-30			$\longrightarrow$	50-60			>		1000
RANGE										3-4
VOLTAGE										360 V
CURRENT										2.5 A
FREQUENC	CIES <u>3.0</u> NO. 13	671-5		COMMEN	ITS :					
OPERATOR	۲.	73								
RECEIVER	R NO.									
OPERATOR	۶									

JOB 308-CV LINE / SPREAD 3 LOOKING NISW DATE Nov 21 A= 1000 for CENTER 60.0 LABEL NE/NE FREQ. 3.0 27 nov68 Rc COUPLING YES PAGE I.P.RECEIVER NOTES LINE \_/ HALF STSHSP. 3 DATE \_/ 53 4452334451 4 SEND 22 33 44 60-50NE 50.48NE RECEIVE 40-30NK 30-20NA RANGE . 1 . / -01 - 1 .01 .01 3.9 4.0 2.0 1.8 -1.9 2.8 0.2 -7.6 40.4 -0. 8.1 5.5 5.0 0.419.2 1.5 14.0 7.1 DC 1 -1.9 100/ 2.7 10 0.2 16.9 5.5 9.7 -0.9-16.4 39.6 -0.5 6.5 1.4 41 -0.8 368 DC 2 0 4.1 -2.6 3. 1 0.8 -4.1 19.1 3.8 1.6 9.0 -2.1-8.4 30.0 DC 3 -0.45.8 3.0 5.0 -33.2 440 11.8-10.1 3.8 0.1 0.6 15.1 2.4 2.9 11.0 -5.0 1.4 15.2 -0.8 6.2 1.8 8.9 18.4 395 DC 4 2.7-14 14.5 - 6.4 16.4 12.0 DC 5 3.1 127 1.0 4.1 -4. 15.0 16,3 -0.8 10.3-91 4.9 6.8 -0.6 158.9.0 8.4 18.8 DC 6 -5.316.2208 8.4 3.0 12.1 DC 7 -10.8 DC 8 DC AVG. AC 1 3.22 7.13 1.14 .504 3.58 .187 10.3 1.73 1,00 .210 AC 2 +0.1 +0.1 +1.0 -0.1 0.0 +0.5 00 +0.1 -0.1 70.5 AC AVG. + 6 -8 S.P. -9 +3 , V .01 5 .01 .04 POT RES. 9k 2K 28 1K

	) HEINI I.P.F	RICHS GE RECEIVER	OEXPLOR NOTES	ATION C		JECT	) 308 HALFS	) <u>3</u> 75 4 SP.	) _3_ DA	
SEND	12	23	3 4	4 5	12	23	3 4	4 5	+	CAL
RECEIVE	20-10NE				10-0 NE					2 3
RANGE	.1	./	.01	,01	. 1	.01	.01			10
DC 1	0.1 9.7	3.1	-7.2 35.6		-2.2 5.0					0.30.9
DC 2	5.8 -1.9	5. 3.1	8.8 16.4	1	7.1 - 7.0					0.3 0.9
DC 3	17.9/ 1.9	12.6 8.0	31.6 -16,4	1	14.1-5.0					
DC 4	6.9 2.5	21 11.1	45.2 13.6		11.8 7.9					
DC 5	4.0 5.0	3.7 7.2	38.0/53.6	>	5.1 -1.9			x		4
DC 6	1.9 5.4	7.3 -4.0			11.0 - 4.9					
		13.1 19.1	-16.0 480		5.7 5.0					
	2.9 5.9	11.1 -	.11.635.6		1.0 6.9					
DC AVG.										1. 1
AC 1	4.55	1.2.6	.800	-199	1.54	.509	.391			154.0
AC 2	+0.1	-0.2	10.5		+0.0				×	-0-1
AC AVG.									9	
S.P.	+12				0					N.
AC NOISE	.05			Ċ	105					
POT RES.	IK				IK					

a a second a

3 PAGE ()) 3 HEINRICHS GEOEXPLORATION CO. PROJECT\_ 308-68 DATE //-2/ HALFS75WSP 3 I. P. SENDER NOTES LINE\_/\_\_\_ SEND 4-5 3-4 4-5 3-4 2-3 2-3 21-7-4 <1+ 5 RECEIVE 0-10 > 10-20 > 20-30 30-40 RANGE 940 V 340 240 V 260 V 240 V VOLTAGE 240 V 1501 1501 50V 150 2.0 CURRENT 3, 2.0 1.517 .5A OA 15A 1.5A 2.0A A 5A A SEND Z-3 3-4 CAL 5 3-4 1----1.00 1 -RECEIVE ->> 1000 50-60 40-50 2-3 RANGE 260 V 240 V. 240 V 240V 2401 295 VOLTAGE 2(()V 150.V 150 V 2.0 CURRENT 2.0 A A 2.0A A 9 1.5 A DH 15 15 A ,5. FREQUENCIES 3.0 0.10 COMMENTS: SENDER NO. 1.3671 -5 OPERATOR 73 RECEIVER NO. OPERATOR

He int		RECEIVER	OEXPLOR NOTES	ATION CI	• PRO	JECT _	HALF	756 CD	3 <b>Г</b>	
SEND		2 3	12	3 4	-			T	and the owner water of the owner	
RECEIVE	Conne	10-80 NF	1	3 7 80-90NE		12	4.5	3 4	12	31
RANGE	-1	. 1	.01	SU-TONE			90-100NE			
DC 1		4.1-1.1	15.6 - 8.8	4.020	.01	-01	- 1	.01	,0,	
DC 1 DC 2	27	40 12			12,10.9	-0.8 36.8	7.4 4.0	19.8 3.9		
DC 3	2.7 2.1	4.9 -1.3	24.0		13.7_0.5	-8.0 39,6	5.1/2.9	15.3 9.0	2 79	9.6
DC 3	5.5	5.0-1.7	-13-7	4.1	15.0 -1.0	-9.2 48.0	8.0 1.0	11.4 15.0		
DC 4 DC 5	6.8	-1. 1	12.7-1.0		19.9	-16.8 520	10.2 -1.0.	4.9 208	29	!6
DC 6			27.1 -9.1		227	-24,8 60.0	147 -3.0	301	7. 28.	0
DC 7			-7,1		-8,1	-26.4 595	17.2 -4.8	1150	20.	0
DC 8	H				L			6.9 12.5		
and the second state of th								2.7		
DC AVG. AC 1	-600	5,39	.844	101		011	2.50	1		
AC 2	n 1			10.1	.864	,286	2,50	.636	158	
a new particular statements of the second statement of the	-0.1	-0.1	+0.0	0.0	0.0	+1.0	+0.6	-0.1	-2.1	the second se
AC AVG. S.P.	=10	10					FENG	5 95-	105 N	E
	1	+2		-1			-1) .	Г	.1	
AC NOISE	1	.01		201	· ·		.01			
POT RES.	IK	IK		IK			26			1
	) ) Heinr	ICHS GE	OEXPLO,R	ATION CO	• PRO	JECT	)	)	)	
	) Heinr I.P.R	ECEIVER	0 E X P L O.R NOTES	ATION CC	. PRO	JECT	34 HALF 44	) 2 <i>8</i> 15£SP.	) _ <u>3</u> D	
S EN D	) Heinr I.P.R	ICHS GE ECEIVER	0 E X P L O,R NOTES	ATION C(	0. PRO	JECT	3 a HALF A	) <u>75E</u> SP.	) D	-
	I.P.R	ICHS GE ECEIVER	NUTES	· .	0. PRO	JECT	3 a	) 75ESP.	) D	Ż
S EN D	I.P.R	ECEIVER	NUTES	· .	0. PRO	JECT	3 a	0 <i>8</i> 15£SP.	) D	Ż
SEND RECEIVE RANGE DC 1	I.P.R	ECEIVER	OEXPLOR NOTES	· .	0. PRO	JECT	3 d HALF A	) <u>75E</u> SP.	) _3_D	3
SEND RECEIVE RANGE DC 1 DC 2	I.P.R	ECEIVER	NUTES	· .	0. PRO	JECT	3 a	) <u>75E</u> SP.	) D	3
SEND RECEIVE RANGE DC 1 DC 2 DC 3	I.P.R	ECEIVER	NUTES	· .	0. PRO	JECT	3 a	) <u>75E</u> SP.	) D	3
SEND RECEIVE RANGE DC 1 DC 2 DC 3 DC 4	I.P.R	ECEIVER	NUTES	· .		JECT	3 a	) 75ESP.	) D	3
SEND RECEIVE RANGE DC 1 DC 2 DC 3 DC 4 DC 5	I.P.R	ECEIVER	NUTES	· .		JECT	HALF A	) 75ESP.	) D	3
SEND RECEIVE RANGE DC 1 DC 2 DC 3 DC 4 DC 5 DC 6	I.P.R	ECEIVER	NUTES	· .		JECT	3 · HALF 4	) 75ESP.	) D	3
SEND           RECEIVE           RANGE           DC	I.P.R	ECEIVER	NUTES	· .		JECT	3 a	) 75ESP.	) D	3
SEND         RECEIVE         RANGE         DC         DC         DC         DC         3         DC         DC         DC         SEND         RECEIVE         RANGE         DC         DC         SEND         RECEIVE         RANGE         DC         SEND         IDC         SEND         IDC         DC         SEND         IDC         SEND         IDC         SEND         IDC         SEND         IDC         SEND         IDC         SEND         IDC	I.P.R	ECEIVER	NUTES	· .				) 75ESP.	) 	3
SEND         RECEIVE         RANGE         DC         B         DC         A         VG	I.P.R		NUTES	· .	PROLINE			) 75ESP.	) D	3
SEND         RECEIVE         RANGE         DC         B         DC         A         A         C	I.P.R		NUTES	· .			HALF A	) 75ESP.	) 	
SEND         RECEIVE         RANGE         DC         AC         AC	I.P.R		NUTES	· .				) 75ÆSP.	) 3_D	
SEND         RECEIVE         RANGE         DC         BC         AC         AC         AC         AC	I.P.R		NUTES	· .				) 75ESP.	) 3_D	
SEND         RECEIVE         RANGE         DC         AC         AC         AC         AC         AC         AC         AC         AC         DC         S.P.			NUTES	· .			3 a	) 75ESP.	) 	
SEND RECEIVE RANGE DC 1 DC 2 DC 3 DC 4 DC 5 DC 6 DC 7 DC 6 DC 7 DC 8 DC 7 DC 8 DC AVG. AC 1 AC 2 AC AVG. S.P. AC NOISE			NUTES	· .				) 75ÆSP.	) 3_D	DATE
SEND         RECEIVE         RANGE         DC         AC         AC         AC         AC         AC         AC         AC         AC         DC         S. P.			NUTES	· .				) 75ESP.	) <u>3</u> D	2 3 0. 0.
SEND RECEIVE RANGE DC 1 DC 2 DC 3 DC 4 DC 5 DC 6 DC 7 DC 6 DC 7 DC 8 DC 7 DC 8 DC AVG. AC 1 AC 2 AC AVG. S.P. AC NOISE			NUTES	· .				) 75ESP.	) 3_D	2 3 0. 0. 0.
SEND RECEIVE RANGE DC 1 DC 2 DC 3 DC 4 DC 5 DC 6 DC 7 DC 6 DC 7 DC 8 DC 7 DC 8 DC AVG. AC 1 AC 2 AC AVG. S.P. AC NOISE			NUTES	· .				0 8 15 ESP.	) 3_D	2 3 0. 0.

	.)	0			000		) 308-61	0	)	PAGE
	HEINR		DER NO	TION CO.	LINI	_	HALF	<u>756</u> SP.	<u>3</u> DA	TE//-2/
SEND	1-2	2-3	1-2.	3-4	2-3	1-2	4.5	3-4	2-3	1-2
RECEIVE	0-10	10-20		20-30		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	30-40.			
RANGE						,				
VOLTAGE	320 V	375V	3201	340 V	3750	390V	280V	340 V	3751	390 V
CURRENT	2.5 A	2,5A	2.5A	3.0	2.5A	3,0A	3.0A	3.0A	2.5A	3.0A
SEND	4-5	3-4	2-3	1-2	4.5	3-4	2-3	1-2		CAL
RECEIVE	40-50			$\longrightarrow$	50-60			·>		1000
RANGE										3-4
VOLTAGE					×					360 V
CURRENT										2.5 A
FREQUEN	CIES 3. O	0.10		COMMEN	ITS :					
SENDER I	NO. 13	671-5								
OPERATO	R	73							м, т	
RECEIVE	R NO.						*			
OPERATO	R									

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