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JOB 444 LINE 3 SPREAD 2 LOOKING NW DATE Aug 19 A= 1000 CENTER - 90.0 LABEL SW/SW FREQ J. 0 01 COUPLING NO



PROJECT 444
LINE 3 HALF SW SP. 2 DATE 3/1

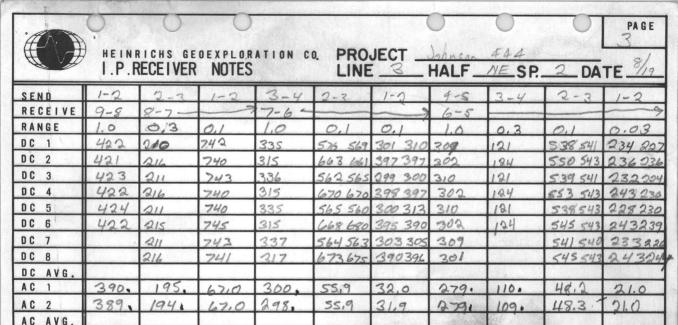
SEND	4-5	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5
RECEIVE	9-10	10-11-	Martin Company of the	11-12	-		12-13	Ministration of the Control of the C	and desirements of the second	7
RANGE	0,3	1.0	0.1	1.0	0.1	0.03	1,0	0.1	0.1	0.03
DC 1	167	639	760	299	756 752	169 172	265	721	379 375	93 95
DC 2	164		655	295	842 843	142 136	261	661	462 470	106 107
DC 3	168	638	768	299	755 750	163 171	265	722	376 373	96 93
DC 4	164	655	655	293	844 843	143 134	261	661	465 469	105 109
DC 5	169	638	762	299	750 756	164 173	265	723	322	94 93
DC 6	164	655	658	294	842 842	141 134	261	661	470	107 107
DC 7			763		753.748	166 173		725	376	94 94
DC 8			650		843 843	135 134		658	470	106 107
DC AVG.	1.									
AC 1	1700	622.	67,5	2850	76.2	14.4	255.	65,9	39.8	9.4
AC 2	159.	623.	67.5	293.	76.1	14.4	2551	65,9	39.8	9.3
AC AVG.										
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PROJECT 444

LINE 3 HALF 5w SP. 2 DATE 8/

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RANGE	0.1	0.1	0.03	No.	0,1	0.03				
DC 1	699 688	435 438	194 198		319 325	273 283			0.3	0.3
DC 2	740 755	338 330	190 185			217 209			207	207
DC 3	700 690	439 439	194 198		320 328	275 274			207	207
DC 4	745754	303 325	189 185		199 191	214210				
DC 5	690 689	437 439	195 199		325 325	276 280				
DC 6	750 758	330 330	187 184		195 190	215 211				
DC 7	695 683	438 438	195 200		326 332	281282	TO STATE OF	1000		
DC 8	748 760	327 328	187 183		190 189	210212				
DC AVG.						Employed and		1		U. N. I.
AC 1	67.8	35.9	17.6		24.2	22,6			206	204
AC 2	67.8	35,8	17.7		24,0	22.6			204	204
AC AVG.								356		1
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	HEINR			TION CO.	PRO	JECT_				2
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SEND	4-5	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4/-5
RECEIVE	9-10	10-11	$\longrightarrow$	11-12		>	12-13			->
RANGE	166×30	300x30	200×30	300×30	300×30	200x30	200×36	200×30	300×30	200×30
VOLTAGE	480	340	500	280 .	340	500	380	280	340	SOO
CURRENT	5.0 A	9.0A	60 A	9.0A6.	9.0A	6.0A	6.0 A	6.0 A	9.0A	6.0 A
SEND	1-2	2-3	3-4	1-2	2-3		DE SER LES DE LA PROPERTIE DE LA CONTRACTION DEL CONTRACTION DE LA	Ca/.3-4/	Cal 1-2	
RECEIVE	13-14	Section 1997	->	14-15	$\longrightarrow$					
RANGE	200×30	300×30	300×30	166×36	300x30		-91	200×10	200×16	
VOLTAGE	360	280 .	240	300	280			70	120	
CURRENT	6.0A	9.0A	9.0A	5.0A	9.0A			2 A	2 A	
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S.P.

POT RES.

NOISE POOL

21,44

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PROJECT LINE 3 HALF ME SP 2 DATE 1/19

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RECEIVE						HILL
RANGE	0,3	0.3	0,3			
DC 1	2,07	207	2.08			
DC 2	3.07	207	2.08			
DC 3						
DC 4						
DC 5						
DC 6						District Medical Control
DC 7						
DC 8						A TABLE
DC AVG.						
AC 1	1.96	194.	1195			
AC 2	1,96	1940	1.95			
AC AVG.		-				
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AC NOISE						
POT RES.						

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SEND	1-2	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	-1-2
RECEIVE	9-8	8-7	<i>&gt;</i>	7-6		>	6-5			-
RANGE	200×30	200×30	200/30	300X30	200130	200130	200×30	300130	300×30	200 X30
VOLTAGE	360	180	360	340	180	360	540	340	280	360
CURRENT	6,0A	6.0A	6,0 R	9,0 R	6.0A	6,0 A.	6.0A	9.0 A	9.0 A	600
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	DC CAL	.966		83.55 1	3*000.0	3.1 123	U	I		5.7	W	27.	(w)	102.	95.	37.1	8	6.29	
		04.0	0.000 0.000	-	10	.85 17.	7.80	ACA		9.80	5.90	55	4 0	76.1	8 4 0	7.5	622	100	
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389.5 422,4 213,3 74,18 325,6 61,72 34,95 305,7 122,5 54,30 23,39 204.1 103.0 143.3 104.9 119.3 168.8 147.7 157.8 174.9 226.0 389.0 194.5 67.00 299.0 195.0 194.0 67.00 298.0 李龍 日本日本公本日本日本 67.00 w B 300.0 55.90 31.90 279.0 109.0 48.30 21.00 55,90 31,95 279,0 109,5 48,25 21,00 55,90 32.00 279.0 .... ω • 51 1.6 . 110.0 4 . 8 48.20 21.00 5.5 1 日本日日日本日 -----3.0 4.4 0 0 N 19 .... 10 ACA AC1 0.000 0.000 RHO AC2 MCF Z 事本事事の日 \*000.0\*000.0\*000.0\*000.0\*000.0\*000.0\*000.0\*000.0 #000.0\*000.0\*000.0\*000.0\*000.0\*000.0\*000.0\*000.0 0.000 207.0 0.000 0.000 0.000 0.000 0.000 0 194.0 - 李田田本本本本本本 \*\*\*\*\*\*\*\*\*\*\*\* 194.0 ----194.0 ----.937 AC CAL .966 DC CAL ----

J03 <u>4</u>	94	LINE 3	_ SPREAD	
LOOKING_	NW	DATE Aug 18	A =	1000
CENTER	-30.0	LABEL SW/IVE	_FREQ	3.0 - 0.1
COUPLING	NO			



PROJECT 444

LINE 3 HALF SW SP. 1

SEND	4-5	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5
APPENDED TO SERVICE STATE	3 4	45		56		10.7	67			0.04
RANGE	03	-3	-03	.3	-1	.03	03	.1	.03	.01
DC 1	93	117	199 205	196	365	no no	226	550 545	193 195	850 860 870
DC 2	<b>9</b> 3	123	185 177	197	356	132 135	231	600 600	165 164	680 690 660
DC 3	93	117	201 206	195	365	113 108	226	550 545	193 196	870 880 880
DC 4	93	123	182 177	196	370	131 140	231	595 600	167 163	680 670 670
DC 5			202 208	146	365	112 108		545	192 196	869 860 BEL
DC 6			183 176	197	350	134 138	111111	600	165 163	680 660 660
DC 7			202 208	196		112		545	194 196	870 870 885
DC 8			180 174	197		135		600	167 163	660 660 650
DC AVG.										
AC 1	88.0	1144	18.7	184.	33.5	11-4	215.	\$3.5	16.7	7.15
AC 2	88.0	1140	18.2	184.	33.5	11.4	215.	5315	16-7	7.15
AC AVG.							May The			
S.P.	+40.	+51.6		41.6			+47.9	1	1	
AC NOISE				.0002			+0002			
POT RES.										2



HEINRICHS GEOEXPLORATION CO. PROJECT Johnson 444

I.P. RECEIVER NOTES LINE 3 HALF 500 SP. 4 DATE 1/8

SEND	1-2	2-3	3-46	1-2	2-3	2-3	3-4	1521
RECEIVE	7 8			/				
RANGE	0	.03	-01	0.03	.01		-3	
DC 1	540	202 195	630 630 580	1245 255	860 830		209	209
DC 2	600	206 212	910 890 860	207 199	990 100		210	209
	540	196 194	540 580 620	250 256	820 830		209	209
DC 4	616	209 210	850 860 Pyo	205 195	990		210	209
DC 5	540	199 190	600 660 550	250 256	850			
DC 6	610	267 215	350 850 900	205 195	990	H		
DC 7	540	196 192	610 680 570	255 260	830			
DC 8	610	214 214	880 890 910	200 196	100			1145
DC AVG.								
AC 1	53-3	18.6	6.80	20.5	8.05		204	198
AC 2	535	18.6	6.20	203	8.05		2040	198
AC AVG.						1	À	
S.P.	-38-0	1		+10-4			IA	Parameter and the second of th
AC NOISE								
POT RES.	BUN TIM							12-30

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SEND	4-5	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5
RECEIVE	3-4	4-5-		5-6			6-7			7
RANGE	166 X30	166×30	166×30	166×30	166×30	166×30	166×30	166x30	166×30	166×30
VOLTAGE	440	4.20	440	360	420	440	440	360	420	440
CURRENT	5.0A	5.0A	5.0A	5,0A	5,0A	3,0A	5,0A	5.0A	5.0A	5.0A
SEND	1-2	2-3	3-4	1-2	2-3	#	Cal. 3-4	Cal. 1-2	0	
RECEIVE	7-8 -		>	8-9	>		20000			
RANGE	166×30	166×30	166×30	166X30	166X30		200X10	200×10		
VOLTAGE	460	360	420	460	360			180		
CURRENT	5.0A	5.0A	5,0 A	5,0A	5.0A		2.0	2.0		
FREQUEN				COMMEN	ITS:		٨			
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RECEIVE		-				7				
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PROJECT 444 NESP. / DATE

SEND	1 2	2 3	1 2	3 4	2 3	1 2	4 5	3 4	2 3	1 2
RECEIVE	2 3	1 2		0 1	0 1		-1 0			
RANGE	-3	01	003	-1	•030	.010	-100	.01	00/3	0003
DC 1	118	935	176 172	830	136 140	Je0 560	630	800 760	30 240	230 205
DC 2	116	145	202 205	830	126 121	640 660	660	725 760	260 230	an 180
DC 3	118	725	175 172	830	137 142	570 550	630	790 765	312 330	220 225
DC 4	116	945	202 205	230	124 119	645 670	660	730 760	2115 240	195 150
DC 5		935	174 172		128 143	570 555		790 760	315 335	221 305
DC 6		745	203 205		124 119		665	730 760	250 225	220 115
DC 7			173 172		140 144	560 540	625	775	310 300	225 260
DC 8		1917	204 205		123 17	635 673	665	750	220 225	18 165
DC AVG.						M				E HELE
AC 1	110 .	88.0	17.6	78.5	12.4	\$70	61.0	7:20	12.72	2.03
AC 2	110 4	88.0	17.6	78.5	12.4	5.75	61.0	7.20	2.70	204
AC AVG.				49017						
S.P.	00	t00		19.7		1	+12.1			0
AC NOISE							0002			VA
POT RES.					1					MP



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SEND	092		
RECEIVE	27	3 4	
RANGE		/	
DC 1	208	207	207
DC 2	208	207	207
DC 3	208	207	207
DC 4	208	207	207
DC 5			
DC 6		THE SEA	
DC 7	10.00		Military
DC 8			
DC AVG.			
AC 1	196	196	200
AC 2	197	197	
AC AVG.			
S.P.		A	
AC NOISE		1	
POT RES.	2000	2000	

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SEND	1-2	2-3	1-2	3.4	2-3	1-2	4-5	3-4	2-3	1-2
RECEIVE	3-2	2-1	-	1-0	and and the section of the section o	1	01			
RANGE	166×30	166-30	166×30	166×30	166×30	166×30	166×30	166+30	166×30	166×30
VOLTAGE	460	240	460	420	350	460	440	4/20	360	460
CURRENT	5.0 A	5.0A	5.0A	5.0A	5.0 A	5,0A	5.0 A	5.0A	5.0A	5.0 A
SEND								Cal 3.4	Cal 2.5	Cal-4-5
RECEIVE	<b>\</b>									
RANGE								200×10	200×10	200×10
VOLTAGE								160	140	160
CURRENT								2 A	2A	2 A
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OPERATO	R	71.500								
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OPERATO	R									

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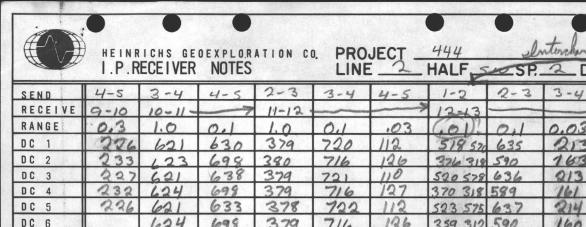
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HEINRICHS GEOEXPLORATION CO. PROJECT 444

I.P. RECEIVER NOTES LINE 2 HALF SW SP 2 DATE 15

	1.1.1	LUL I VLIV	MOILS		LINE	- 16-	TALF_	<u>a</u> _5P.	La DA	1 1/5
SEND	1-2	2-3	3-4	4-5	1-2	2-3		Cal	Cal-	Cal
RECEIVE	13-14	man and annual control of the last of the	Commencement		14-15	-		2-3	3-4	1-2
RANGE	0.1	0,1	,03		0.1	0.1			0.3	
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DC 2	825 11	320	121 119		695	310 310		2.07	2.07	2.04
DC 3	858 118	279	116 118		640	263				
DC 4	824	321	120 118		695	312				
DC 5	858	278	117 119		1039	262				
DC 6	803	321	211118	20/12/20	697	309				
DC 7	859	279	116 118		639	265				
DC 8	823	322	120 117		699	310				
DC AVG.				T ATTEM			The Park			
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POT RES.										

	HEINR		DEXPLORADER NO	ATION CO.	PRO	JECT_	<i>4/4/4/</i> HALF. <b>∑</b>	SP.	2_ DA	PAGE 2
SEND	4-5	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5
RECEIVE	9-10	10-11	->	11-12	-	$\rightarrow$	12-13			<b>-</b>
RANGE	133×30	200×30	133×30	300>30	200×30	133×30	300×30	300×30	200×30	133×30
VOLTAGE	460	450	460	280	450	460	440 4	220	460	456
CURRENT	4.0 R	6.0A	4.0 A	9.0 A	6.0A	4. A	(9.0A)	9.0A	6.0A(	4.0A)A
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RANGE	300×36	300×30	206×30	300×30	300×30			200×10	200×10	200×10
VOLTAGE	430	280	460	430	280			140	60	100
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PROJECT -

HALF NE SPA

444

DATE

PAGE

4-5 SEND RECEIVE 7-6 RANGE 3.0 0.3 0.3 0.3 1.0 0.1 519 093 DC 153 224 104 500 625 338 DC 2 093 520 147 223 104 515 66 538 400 DC 093 153 518 224 104 338 501 093 223 103 167 785 DC 520 147 518 401 518 234 DC 5 154 501 169 624 336 46 DC 6 223 521 515 167 402 DC 743 336 500 623 DC 8 790 570 400 518 DC AVG AC 476-.35. 2.02. 0,940 0.99. 460 1,53. 680 535 . 338 AC 0.840 471-2.02. 0,990 ,462 681 537 1.35. AC AVG. 2.0-18,8+ 35.0+ S.P. 13.91 NOISE 0.0 POT RES.

PROJECT 444

LINE 2 HALF NE SP. 2 DATE 8/15

SEND	Cal 2-3 C	13-4 Cal4-8
RECEIVE		
RANGE	0.3	0.3
DC 1	2.07	2.08
DC 2	2.07	2.08
DC 3		
DC 4		
DC 5		
DC 6		
DC 7		
DC 8		
DC AVG.		
AC 1	1.95.	1.94 *
AC 2	1.45.	1.94.
AC AVG.		
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AC NOISE		1.5
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SEND	1-2	2-3	1-2	3-4	2.3	1-2	4-5	3-4	2-3	1-2
RECEIVE	9-8	8-7-	->	7-6		>	6-5			>
RANGE	300x30	300×30	300 x30	200×30	300 × 30	300 X 30	133×30	200×30	300 130	300x30
VOLTAGE	440	280	440	480	280	440	480	480	280	440
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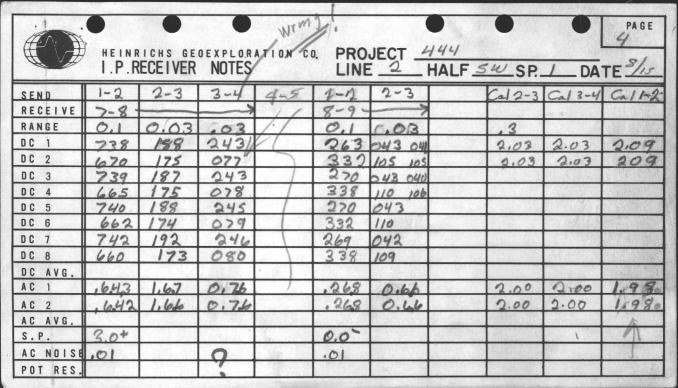
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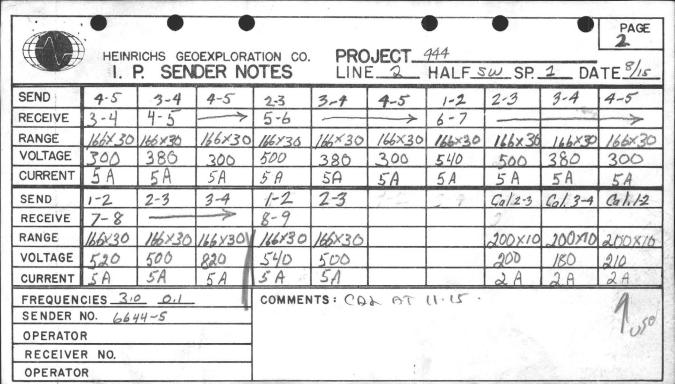
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JOB 444 LINE Z SPREAD 1 LOOKING NW DATE Aug 15 A= 1000 CENTER -30.0 LABEL SW/NE FREQ. 3.0 - 0.1 COUPLING 11/0

PROJECT 444
LINE 2 HALF SW SP. 2 DATE "/

SEND	4-5	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5
RECEIVE	3-4	4-5-	7	5-6-			6-7	The second second second	-	a separate and the separate of
RANGE	0.3	0.31	0.03	0.3	0,1	0.3	0.3	0.1	0.03	0.01
DC 1	110	120	230	184	520	125	261	493	204	842
DC 2	103	113	196	195	460	192	275	570	196	730
DC 3	110	119	232	184	519	124	261	490	205	830
DC 4	103	112	195	195	462	193	275	571	196	738
DC 5		120	233		520	123	261	488	206	840
DC 6		112	194		463	194	274	573	195	7.38
DC 7			233		518	122		488	206	839
DC 8			194		462	193		572	195	7.38
DC AVG.	N TOP									
AC 1	1.020	1.030	1.96	1,75.	.455	1.45	2.46.	,486	1.84	.720
AC 2	1.010	1.03.	1.96	1.74.	,455	1.45	2,46	.483	1.85	.723
AC AVG.								37.73	18.4	
S.P.	31.8	42,37		6.7-		0.18	35.2-		18.2	File line
AC NOISE	0.00	0.5		0.01						105
POT RES.										





HEINRICHS GEOEXPLORATION CO. I.P.RECEIVER NOTES

PROJECT 444 LINE 2 HALF NE SP.1

SEND	1-2	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2
RECEIVE	3-2	2-1-	-	1-0	Aller Michigan Commission (Special		70-1	-		<b>—</b> >
RANGE	-3	-3	103	•3	- 03	.01	-1	003	-01	-01
DC 1	108	105	190 187	142	188	865	881	150	450 460	365 460 300
DC 2	113	108	201 202	141	183	540	895	126	550 575	230 160 315
DC 3	109	105	188	142	188	860	585	150	475 450	400 470 300
DC 4	112	109	202	141	185	240	895	126.	355 580	210 40 348
DC 5	109		187		187	860	480	150	2170 440	140 181 ans
DC 6	112		203		186	940	895	126	560 590	195 115 360
DC 7			187		187	802	889		470 430	440 505 260
DC 8			203		186	840	895		565 605	375 105 375
DC AVG.										24
AC 1	106.	103.	18.5	135.	1707	7.99	85.5	13.2	4.85	2.95
AC 2	106.	103.	18.5	135.	17.7	8.00	85 5	13.2	4.90	2.95
AC AVG.										
S.P.	-1.6	+25.9		-7.9		_	+16.8			1
AC NOISE	1000.		-0061			' -				/ 1
POT RES.					The state of					/

HEINRICHS GEOEXPLORATION CO. I.P.RECEIVER NOTES

PROJECT 444
LINE 2 HALF NE SP. 1 DATE 8/15

PAGE

SEND			CAL	CAL	CAL
RECEIVE			2-3	34.	45
RANGE			03		
DC 1			207	207	207
DC 2			207	207	207
DC 3					
DC 4					
D C 5					
DC 6					
DC 7					
DC 8					
DC AVG.					
AC 1			205	205	203
AC 2			205	205	203
AC AVG.		100			AS
S.P.	770.				101
AC NOISE		1			
POT RES.			8.3000	2	109 M

AN										PAGE	
	HEINF	RICHS GEO P. SEN	DER NO		. PRO	DJECT_ E_2_	<i>447</i> HALF_	VE_SP.	DA	TE 8/15	
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RECEIVE	3-2	2-1-	>	1-0-			01				
RANGE	166 X30	166×30	166×30	166 x30	166×30	166×30	166×30	166×30	166x30	166×30	
VOLTAGE	560	520	550	400	520	550	300	400	520	550	
CURRENT	5.0A	5.0 A	5.0A	5.0 A	5,0A	5,0A	5,0 A	5,0A	5.0A	5.0A	
SEND								Cal. 3-4	Cal. 2-3	Cal. 4.5	
RECEIVE											
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CURRENT								2.0	2.0	2.0	
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RECEIVE	R NO.										
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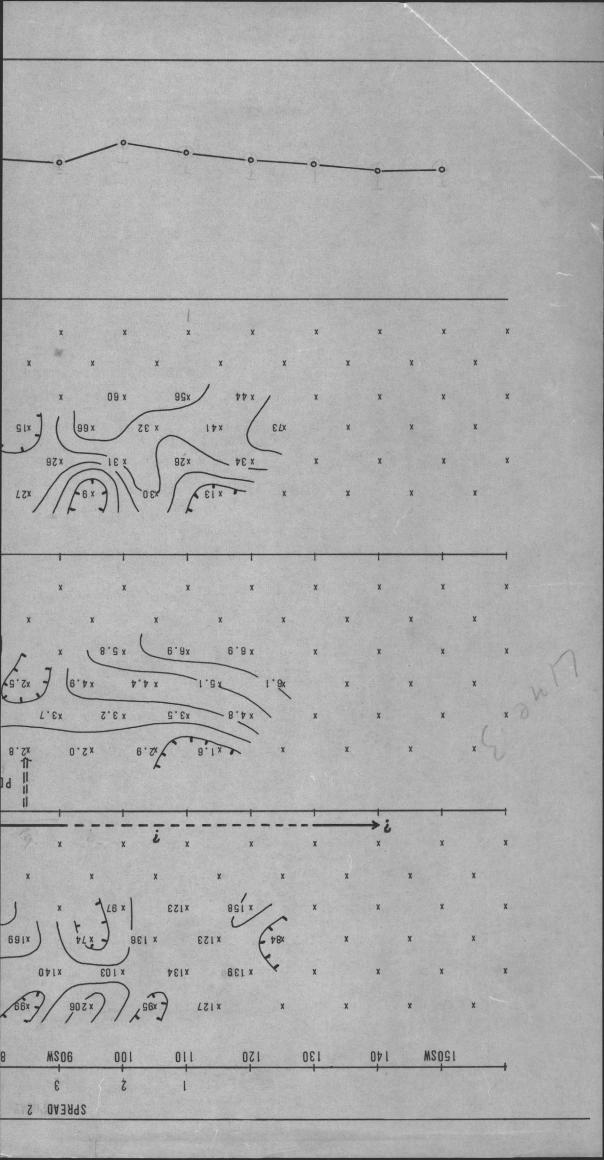
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en:	8.511	7.990	7.995	49.34	4.	68
N	18.64	17.70	17.70	43,23	3.3	76
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						(m)
N	19.49	18.50	1 8 5	45.1	(m)	
~	106.7 19.49	103.0 18.50 103.0 18.50	103.0 18.5	61.84 45.1	1.6	25
1 1 2	10.4 106.7 19.49	106.0 103.0 18.50 106.0 103.0 18.50	106.0 103.0 18.5	64.00 61.84 45.1	2.1 1.6	33 25



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FREQUENCIES .10 AND 3.0	FEET,	A= 1000	8/12/69	LOOKING NW 8/1	ш	E 1 SPREAD	4-69 LINE		8/12/69	LOOKING NW	SPREAD 2 L	LINE 1 SP		J08 444=69	CONTRACTOR	HEINRICHS GEOEX	HEINE

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A 80275

JOB 444	LINE /	SPREAD
LOOKING NW	DATE 009 12	A= /000
CENTER 90.0	LABEL SW/SW	FREQ. 3.0 - 0.1
COUPLING 1/0	_	



## HEINRICHS GEOEXPLORATION CO. I.P. RECEIVER NOTES

PROJECT JOHNSON LINE HALF &

HALF SW SP. 2 DATE 8/13

SEND	A 5	3 4	4 5	2 3	2 4	4 5	1 2	2 3	3 4	4 5
RECEIVE	9 10	10 11		11 12			12 13			144
RANGE	.3	1-0	0	-3	.1	.03	3	11	.03	.03
DC 1	183	270	595	173	590	215 214	165	322	200 203	130 130
DC 2	178	275	589	(74	375	195 194	160	315	198 195	138 137
DC 3	183	270	595	173	590	216 218	16T	355	202 203	102 131
DC 4	178	275	385	174	\$75	190 190	160	335	197 197	137 137
DC 5			590		590	217 221		355	202 202	130 130
DC 6			585		232	192 187		331	197 195	137 137
DC 7			50			217 220			204 206	131 128
DC 8			585			112 19/			195 193	138 14
DC AVG.							1			
AC 1	174.	262	55.5	164	550	19.2	134.	34.0	19-5	17.8
AC 2	173	262	55.5	164.	55.0	19.2	154.	34.2	19-5	12.8
AC AVG.										
S.P.	-3.9	19.7	130	13.3			412.1			
AC NOISE	.0601	1	=	>		4				
POT RES.	R. Sale	TO THE							4 4 4	THE KE



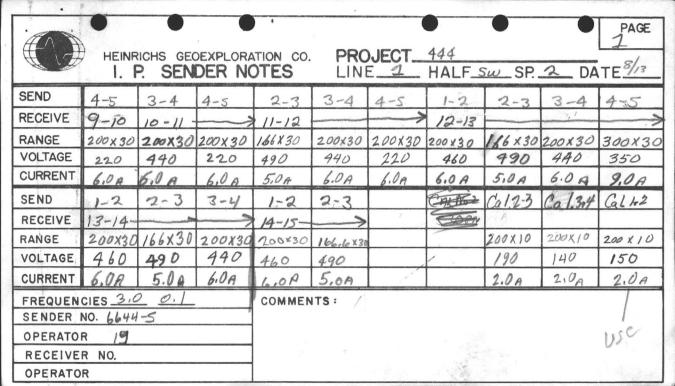
GEOEXPLORATION CO. I.P.RECEIVER NOTES

PROJECT JOHNSON LINE

HALF SW SP. 2

CAL SEND RECEIVE RANGE 2:08 DC 27.8 DC DC DC DC DC 13,8 DC DC DC AVG 59.0 27.0 A C 19.2 59.0 26.2 AC AC AVG .0 +12.4 S.P. 0001. NOISE POT RES

PAGE



HEINRICHS GEOEXPLORATION CO. I.P.RECEIVER NOTES

PROJECT Johnson 444
LINE 1 HALF NE SP. 2 DATE 8/13

PAGE

SEND	1-2	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2
RECEIVE	9-8	8-7-	-	7-6-		>	6-5	-	accine	Cameronian
RANGE	0.1	0.3	0.1	0.3	0,1	0.1	1.0	0.1	103	-03
DC 1	280	149	590	214	521	300	500	659 589	186 188	179 183
DC 2	273	151	570	211	563	245	501	590 661	163 158	148 147
DC 3	280	149	590	214	520	300	500	658 590	189 185	180 178
DC 4	272	151	567	212	569	241	500	593-663	161 163	145 145
DC 5	280	149	590	214	518	302		590 584	186 186	181 183
DC 6	272	152	573	212	570	243		660 664	158 164	147 140
DC 7			582		518	301		588 KM	185 /87	179 183
DC 8			573		570	248		662	162 163	146 149
DC AVG.	Tolly 1									
AC 11	,262	1,420	542	2.03	1.512	. 259	,478.	,595	1.65	1,54
AC 2	,261	1,42	, 541	2.03	1512	,258	.478	,593	1.65	1.53
AC AVG.										
S.P.	6.4-	10.5+	1017	817+			11.3			
AC NOISE	.01	.01		.01				De	A-11-2	.0)
POT RES.	46.					SECOND S	E Transit Sec	120 K		

HEINRICHS GEOEXPLORATION CO. PROJECT Johnson 444
I.P. RECEIVER NOTES LINE 1 HALF NE SP

LINE 1 HALF NE SP. 2 DATE %

		TOLITE	110120	CITAL		HALL Z	31		1
SEND	4-5	3-4	2-3/	4-6	3-41	Ca12-3	Cal 3-4	Ca12-3	Cal 1-
RECEIVE	5-4		1	4-3+		A SECTION			
RANGE	V 155	1			1		. 3	.3	, 3
DC 1	THE THE			15		2.07	2.07	2.07	2.06
DC 2				The second	X	2.07	2.07	2.07	2.06
DC 3									
DC 4								The second	
DC 5									
DC 6									
DC 7				1000	,				
DC 8								S. In C.	
DC AVG.					- 1				
AC 1			LESS TO THE REPORT OF THE PERSON OF THE PERS		B	2.03	2,00	2.00	2.00
AC 2						2,03	2.00	2.00	2.00
AC AVG.									
S.P.									
AC NOISE									
POT RES.				7.0					CARRIED S

								_		_			
The state of	HIA A							1110			PAGE 3		
			P. SEN	DER NO		PRO	JECT_	HALF_A	/E SP.	2 DA	TE 8/13		
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	RECEIVE	9.8	8 7	->	7 6		->	65					
	RANGE	200 X30	166×30	20 0x 30	206X30	166×30	200×30	300×30	200430	10 X 350	30 X200		
	VOLTAGE	VOLTAGE 450 500 450				550	450	340	50/0	320	450		
	CURRENT					5.0 A	6.0A	9,00A	3.0	6			
	SEND	3 4				(br - 230			CAZ:	CAL	CAL		
	RECEIVE	65				2-3			3-4	23	42		
	RANGE	166×30				90X200			200810	20040	200×16		
	VOLTAGE	420				750			330	380	120		
	CURRENT	5.0				2.			2:0	2,0	2,0		
A	FREQUEN	CIES 3	0/		COMMEN	ITS: Q	nder ac	tion in	n 3-6	16-5	11		
7	SENDER	DLTAGE 450 500 450  RRENT 6.6 5.0A 6.0  CELVE 6 5  INGE 166x30  DLTAGE 420  DRRENT C.0  REQUENCIES 3 9/  ENDER NO.				00	M DEEDT CEE	109 0(10	2:	2 /6-5	-110		
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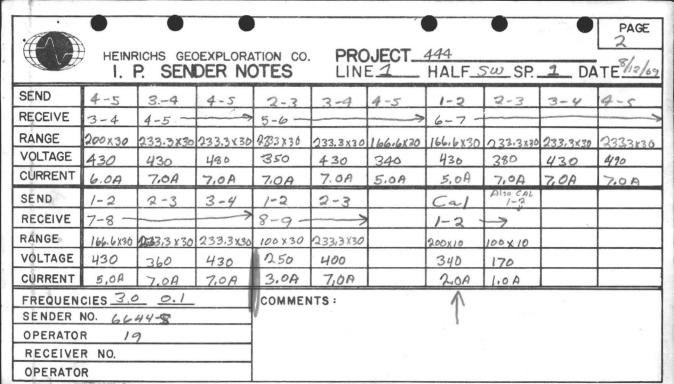
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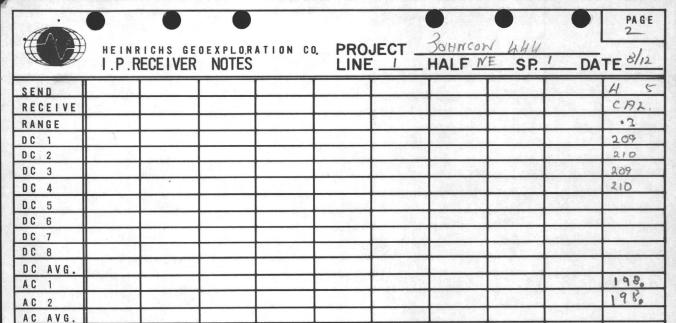
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RONALD G. TRAYNER
JEFFREY R. MATSEN
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ROBERT H. SMITH, JR.
GALE C. GUTHRIE

ELVON MUSICK 1890-1968

LEROY A. GARRETT 1906-1963 MUSICK, PEELER & GARRETT

ATTORNEYS AT LAW

ONE WILSHIRE BOULEVARD LOS ANGELES, CALIFORNIA 90017

TELEPHONE (213) 629-3322

CABLE "PEELGAR"

GEOEX



REC'D SEP 8

BOX 5671 TUCSON, ARIZONA 85703 Phone: (AREA 602) 623-0578

August 29, 1969

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Heinrichs Geoexploration Company P. O. Box 5671 Tucson, Arizona 85703

Attn: Mr. Paul Head

RE: Heinrichs Service Contract --

Johnson Camp, Arizona

Gentlemen:

Enclosed for your files is a fully executed copy of the subject Agreement.

Very truly yours,

Gerald G. Kelly

for MUSICK, PEELER & GARRETT

GGK:sr

Enclosure

F/e 499-19

## CYPRUS MINES CORPORATION

523 WEST SIXTH STREET LOS ANGELES, CALIFORNIA, 90014 TELEPHONE 629-5771

August 20, 1969

GEOEX MODERAL ENGINEERS



Heinrichs Geoexploration Company P. O. Box 5671 Tucson, Arizona 85703

Attn: Mr. Paul A. Head

AUG 2 5 1969

BOX 5671 TUCSON, ARIZONA 65703

Phone: (AREA 602) 623-0578

Induced Polarization Survey -- Johnson Job #444-69 Camp, Cochise County, Arizona

Gentlemen:

This letter sets forth our understanding of the terms and conditions under which HEINRICHS GEOEX-PLORATION COMPANY (hereinafter called "Contractor") agrees to perform an induced polarization survey for CYPRUS MINES CORPORATION (hereinafter called "Company") in the vicinity of Johnson Camp, Cochise County, Arizona commencing on or about August 11, 1969.

- 1. Contractor agrees to furnish induced polarization equipment and a three-man field crew, consisting of Mr. Tony Ivan Smith and two technicians, to operate said equipment, using conventional field procedures, over terrain to be specifically designated by officials of Company. Services of other personnel of Contractor's technical staff will be made available as mutually agreed upon by the parties should the need for such services arise. Company will not be required to furnish any field assistants.
- Company agrees to pay Contractor for the services of the three-man field crew and for the use of the equipment furnished by Contractor, at the rate of \$350.00 per ten-hour day and at the rate of \$42.50 per hour for field services rendered in excess of ten hours each day. Said charges shall include the cost of the final report to be submitted by Contractor. Charges for the services of personnel in addition to the three-man field crew and for equipment beyond that specified in paragraph 1. above shall be at such rates as the parties may agree upon when the necessity for such additional personnel or equipment arises. No mobilization charge shall be made. Company further agrees to pay standby charges at the rate of \$125.00 per day for delays caused by inclement weather and for delays requested by Company.

In the event that Contractor's equipment should be mechanically inoperable for a period exceeding one hour on any given day, Contractor may at his option either make up the time that is thereby lost or forfeit payment for the time that is thereby lost.

- 3. In addition to the services and charges described above, Contractor agrees to provide electronic data reduction, with electromagnetic coupling corrections, and Company agrees to pay for said services at the rate of \$10.00 per line mile.
- 4. Billings by Contractor may be submitted periodically and a final statement shall be submitted upon completion of the final report. Payments shall be due upon receipt of all billings.
- 5. Contractor represents that through the use of conventional field procedures production will be at the approximate rate of one to two line miles per day.
- 6. Any costs incurred by Contractor relating to property permits, brushing or liability for trespass shall be reimbursed by Company.
- 7. Contractor shall maintain strict security over all knowledge and information acquired or developed by it during the performance of this agreement. Contractor shall not divulge any such knowledge and information directly or indirectly to any person without prior written consent of Company.
- 8. Contractor shall at all times be acting as an independent contractor and shall in no way be considered an employee or agent of Company.
- 9. Company shall have the right to terminate this Agreement by giving ten (10) days written notice of such termination to the Contractor field crew and the Tucson office. Upon receipt of such notice of termination, Contractor shall immediately cause all work to stop and shall remove all equipment and personnel from the project as soon as possible.
- 10. All certificates, notices, affidavits or other documents prepared by Contractor in connection with the services performed pursuant to this Agreement shall be approved by Company prior to the delivery of such documents to any governmental agency or other third party.

11. Any notices permitted or required to be given hereunder shall be deemed to have been received if mailed by registered mail, postage prepaid and addressed as follows:

If to Company:

Cyprus Mines Corporation 523 West Sixth Street Los Angeles, California 90014

If to Contractor:

Heinrichs Geoexploration Company P. O. Box 5671
Tucson, Arizona 85703

- 12. Contractor shall be compensated for services rendered and reimbursed for expenses incurred in accordance with the rates set forth in this Agreement. No costs or expenses in excess of or in addition to those set forth in this Agreement shall be incurred by Contractor without the prior written consent of Company.
- 13. Contractor shall perform the services set forth in this Agreement pursuant to the direction and control of Company.
- less Company against any and all loss and expense, including attorney's fees and other legal expenses, by reason of liability imposed or claimed to be imposed by law upon Company for damage because of bodily injury, including death at any time resulting therefrom, or on account of damage to property sustained by any person or persons arising out of or in consequence of the performance of the work, whether or not such bodily injuries or damage to property are due to or claimed to be due to any negligence or acts, including violation of any duty imposed by a statute, ordinance or regulation, of Contractor, the subcontractors, the employees or agents of any of them.
- during the term of this Agreement, at its own expense, all insurance specified below. Contractor will not commence work nor allow any subcontractor to commence work until all insurance has been approved and accepted by Company.

The insurance to be obtained and continued in force by Contractor is the following:

(a) Workmen's Compensation and Occupational

Disease disability insurance as required by the laws of the state wherein the work is to be performed.

- (b) Employer's liability insurance, unless the laws of the state in which the work is to be performed preclude an independent right of action by an employee against an employer under common law.
- (c) Comprehensive Automobile Liability insurance with Bodily Injury limits of no less than \$50,000 each person and \$100,000 each accident and Property Damage with a limit of no less than \$25,000 each accident.
- (d) Comprehensive General Liability and Property Damage insurance including Operation, Protective and Contractual Liability coverages with Bodily Injury limits of no less than \$50,000 each person and \$100,000 each occurrence; and Property Damage limits of no less than \$25,000 each occurrence, and \$100,000 aggregate operations, \$100,000 aggregate protective, \$100,000 aggregate contractual.

Contractor shall furnish Company with certificates of insurance which shall include the following statements:

- (aa) At least ten (10) days prior to effective date of any material change or cancellation, written notice thereof will be sent by registered mail to Cyprus Mines Corporation, 523 West Sixth Street, Los Angeles, California 90014.
- (bb) Contractual Liability insurance covers the liability of the insured assumed under the indemnity and insurance provisions of the Agreement entered into with Cyprus Mines Corporation under date of August 20, 1969.

If this letter correctly sets forth the terms and conditions of our Agreement, please indicate your acceptance by signing and returning this copy of the letter to us.

Very truly yours, CYPRUS MINES CORPORATION

By lameth Lieben

Title: Senior Vice President

ACCEPTED BY:

HEINRICHS GEOEXPLORATION COMPANY

E. Grover Heinrichs

Title: Vice Docs.

Dated: 8-25-69

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