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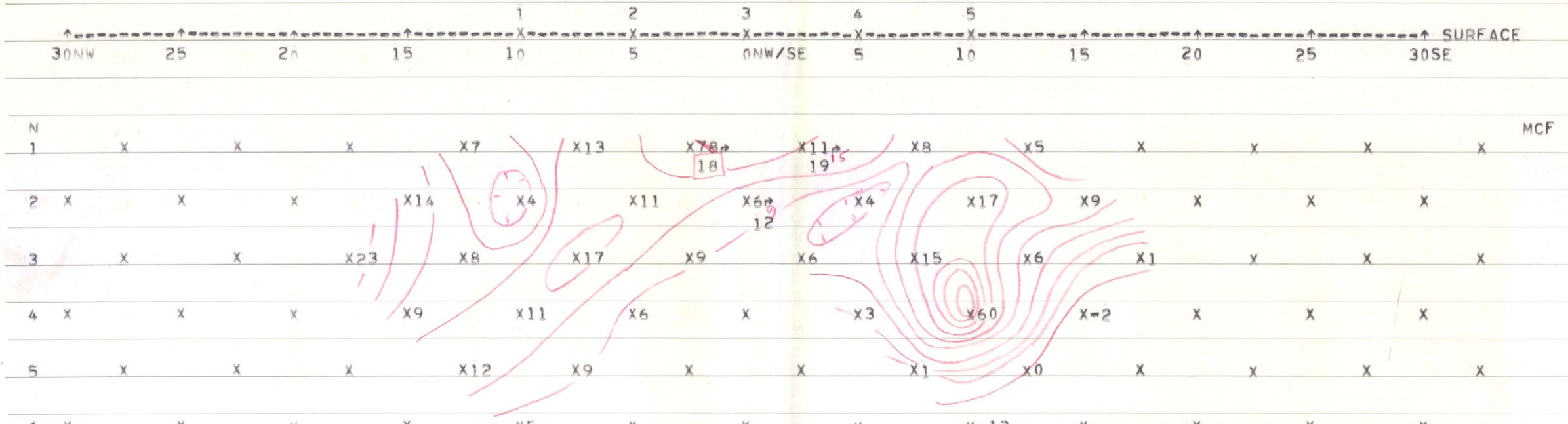
HEINRICHS GEOEX B=2~~6~~0-68 LINE 1 SPD 1 LOOKING N34E 4-30-68 A= 500 FEET

	30NW	25	20	15	10	5	0NW/SE	5	10	15	20	25	30SE	SURFACE
N					1	2	3	4	5					RHO/2PI
1	X	X	X	X85	X76	X78→ 75 76	X72→ 74 73	X306	X414	X	X	X	X	
2	X	X	X	X113	X102	X73	X126→ 129 128	X155	X245	X151	X	X	X	
3	X	X	X50	X110	X89	X165	X247	X212	X94	X298	X	X	X	
4	X	X	X	X143	X96	X208	X	X340	X89	X172	X	X	X	
5	X	X	X	X129	X213	X	X	X132	X160	X	X	X	X	
6	X	X	X	X	X267	X	X	X	X231	X	X	X	X	

	30NW	25	20	15	10	5	0NW/SE	5	10	15	20	25	30SE	SURFACE
N					1	2	3	4	5					PFE
1	X	X	X	X.6	X1.0	~~X6.2~~→ $\boxed{1.4}$	X.8→ 1.4 1.1	X2.3	X2.0	X	X	X	X	
2	X	X	X	X1.5	X.4	X.8	X.7→ 1.5 1.1	X.7	X4.3	X1.4	X	X	X	
3	X	X	X1.1	X.8	X1.5	X1.5	X1.5	X3.2	X.6	X.4	X	X	X	
4	X	X	X	X1.3	X1.1	X1.2	X	X1.0	X5.3	X-.3	X	X	X	
5	X	X	X	X1.6	X1.9	X	X	X.1	X.0	X	X	X	X	
6	X	X	X	X	X1.3	X	X	X	X-2.9 ?	X	X	X	X	

0	0
1	2
0	-4
-10	-5
-13	3
-11	6
-10	3


1 2 3 4 5
SURFACE
30NW 25 20 15 10 5 0NW/SE 5 10 15 20 25 30SE
N
MCF
1 X X X X7 X13 X78 X11 X8 X5 X X X X
18 19 15
2 X X X X14 X4 X11 X6 X4 X17 X9 X X X
12
3 X X X23 X8 X17 X9 X6 X15 X6 X1 X X X
4 X X X X9 X11 X6 X X3 X60 X-2 X X X
5 X X X X12 X9 X X X1 X0 X X X X
6 X X X X X5 X X X X-13 X X X X

5698983

HEINRICHS GEOEX B-260-68 LINE 2 SPD 1 LOOKING W 4-30-68 A= 500 FEET

N	30S	25	20	15	10	5	0S/N	5	10	15	20	25	30N
					1	2	3	4	5				SURFACE

RHO/2PI

N	30S	25	20	15	10	5	0S/N	5	10	15	20	25	30N
1	X	X	X	X111	X109	X49 (50)	X62 (63)	X91	X83	X	X	X	X
2	X	X	X	X156	X193	X99	X99 (100)	X143	X87	X154	X	X	X
3	X	X	X120	X221	X157	X164	X199	X112	X152	X219	X	X	X
4	X	X	X	X153	X167	X251	X	X145	X193	X293	X	X	X
5	X	X	X	X115	X251	X	X	X248	X363	X	X	X	X
6	X	X	X	X	X170	X	X	X	X452	X	X	X	X

	30S	25	20	15	10	5	0S/N	5	10	15	20	25	30N
					1	2	3	4	5				SURFACE

PFE

N	30S	25	20	15	10	5	0S/N	5	10	15	20	25	30N
1	X	X	X	X.7	X.7	X1.0 (1.6) 1.3	X2.3 (.7) 1.5	X.8	X.3	X	X	X	X
2	X	X	X	X1.1	X1.2	X1.2	X.9 (1.4) 1.2	X.6	X.8	X.8	X	X	X
3	X	X	X1.4	X2.1	X1.1	X.8	X.9	X1.4	X1.3	X.8	X	X	X
4	X	X	X	X1.3	X1.4	X1.6	X	X2.0	X1.5	X.8	X	X	X
5	X	X	X	X.9	X1.2	X	X	X1.1	X1.8	X	X	X	X
6	X	X	X	X	X.8	X	0 X 0	X	X1.6	X	X	X	X

1	3
0	1
-1	7
-5	8
-4	7
2	4

5698985

	30S	25	20	15	10	5	0S/N	5	10	15	20	25	30N	SURFACE
N														MCF
1	X	X	X	X6	X7	X21→31 26	X37→12 24	X9	X3	X	X	X	X	
2	X	X	X	X7	X6	X12	X9→13 12	X4	X10	X5	X	X	X	
3	X	X	X12	X10	X7	X5	X4	X12	X8	X4	X	X	X	
4	X	X	X	X8	X8	X7	X	X14	X8	X3	X	X	X	
5	X	X	X	X8	X5	X	X	X5	X5	X	X	X	X	
6	X	X	X	X	X4	X	X	X	X4	X	X	X	X	

HEINRICHS GEOEX 8-26-68 LINE 1 SPD 1 LOOKING N34E 4-30-68 A= 500 FEET

3.000	3.000	3.000	2.000	3.000	3.000	3.000	2.000	3.000	3.000	I	3.000	2.000	3.500	3.000	3.500	2.000	3.000	3.000	2.000	
146	15	650	106	372	309	17	351	184	211	DC	560	155	114	124	115	94	702	920	200	LEFT
148	15	641	96	354	350	17	330	170	204		565	136	115	120	118	96	745	970	199	SIDE
					310			184	210			158	111	124	115	94	755	960	200	
					350			171	205			136	110	118	117	96	726	940	199	
					310			185	210			156	111	123	114	95	710	942		
					350			172	205			135	114	119	120	96	730	940		
																	739	980		
																	754	949		
147.0	150.0	64.55	101.0	36.30	32.99	170.0	34.05	17.76	20.74	DCA	56.25	14.62	11.22	12.13	11.63	9.520	7.333	9.524	199.5	
145.0	148.0	63.60	100.0	36.00	32.50	169.0	33.90	17.50	20.50	AC1	55.40	14.50	11.10	11.90	11.50	9.400	7.220	9.400	200.0	
145.0	148.0	63.60	100.0	36.00	32.50	169.0	33.90	17.50	20.50	AC2	55.40	14.50	11.10	11.90	11.50	9.400	7.220	9.400	199.0	
145.0	148.0	63.60	100.0	36.00	32.50	169.0	33.90	17.50	20.50	ACA	55.40	14.50	11.10	11.90	11.50	9.400	7.220	9.400	199.5	
73.68	75.19	129.4	75.94	72.78	165.4	85.21	102.4	89.02	207.9	RHO	112.8	109.9	96.41	212.8	49.97	143.2	128.6	267.3	1.003	DC CAL
1.4	1.4	1.5	1.0	.8	1.5	.6	.4	1.5	1.2	PFE	1.5	.8	1.1	1.9	1.1	1.3	1.6	1.3	1.000	AC CAL
19	18	12	13	11	9	7	4	17	6	MCF	14	8	11	9	23	9	12	5		

3.000	2.000	3.000	3.000	2.000	3.000	2.000	3.000	2.000	3.000	I	2.000	3.000	2.000	3.000	2.000	3.000	2.000	3.000	2.000	
150	930	632	600	495	500	541	120	296	320	DC	540	141	625	870	378	136	610	836	198	RIGHT
158	950	616	600	520	470	539	120	254	342		442	242	542	530	390	191	665	800	196	SIDE
	935	620		496	495	545	121	/	309		548	/	645	/	371	144	590	780	/	
	935	610		520	460	540	120	270	340		440	170	520	670	400	195	600	855	195	
	930	626		490	500	545	120	290	309		550	202	660	740	381	155	520	760	196	
	935	616		515	475	540	120	261	355			166	500	760	410	151	605	830		
	936	629			510	545			330			200	640	780	385	199		840		
		621							360			165	500	782	411	152				
									330			200								
154.0	93.63	62.05	600.0	50.62	48.42	542.0	120.2	27.68	33.37	DCA	49.37	18.49	5.814	7.412	39.02	16.84	5.965	8.105	196.2	
146.0	93.50	62.00	590.0	50.60	48.00	535.0	116.0	27.00	33.30	AC1	49.00	18.50	5.550	7.450	39.10	17.00	6.000	8.400	199.0	
146.0	93.50	62.00	590.0	50.60	48.00	535.0	116.0	27.00	33.20	AC2	49.00	18.50	5.560	7.450	39.10	17.00	6.000	8.400	196.0	
146.0	93.50	62.00	590.0	50.60	48.00	535.0	116.0	27.00	33.25	ACA	49.00	18.50	5.555	7.450	39.10	17.00	6.000	8.400	197.5	
78.47	71.57	126.5	305.7	154.8	246.7	414.3	245.0	211.6	340.1	RHO	151.0	94.23	88.87	132.2	298.3	171.6	159.6	231.3	1.019	DC CAL
6.2	.8	.7	2.3	.7	1.5	2.0	4.3	3.2	1.0	PFE	1.4	.6	5.3	.1	.4	-.3	.0	-2.9	1.006	AC CAL
78	11	6	8	4	6	5	17	15	3	MCF	9	6	60	1	1	-2	0	-13		

5698981

260-68 (Job No.)

Line 1

Spread 1

Looking N34E

Date April 1968

A= 500 ft

Center at 0.0

11

NW / SE (Label)

21

3.0 (Freq.)

31

(CPL?)

41

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES 500'=A

PROJECT DON 4-30-68
LINE 1 HALF N SP. 1 DATE

PAGE

SEND	45	34	45	23	34	45	12	23	34	45
RECEIVE	0-5N	5-10N	—	10-15N	—	—	15-20N	—	—	—
RANGE	300	300	100	300	100	100	300	100	30	30
DC 1	146 148	150 150	650 641	106 96	372 354	309 350	170 170	351 330	184 170	211 204
DC 2	146 148	150 150	650 641	106 96	372 354	310 350	170 170	351 330	184 171	210 205
DC 3						310 350			185 172	210 205
DC 4										
DC 5										
DC 6										
DC 7										
DC 8										
DC AVG.										
AC 1	145	148	63.6	100	36.0	32.5	169	33.9	17.5	20.5
AC 2	145	148	63.6	100	36.0	32.5	169	33.9	17.5	20.5
AC AVG.										
S.P.	+1.3	-1.4	—	-10.3	—	—	-3.2	—	—	—
AC NOISE	<.1	<.1	—	<.1	—	—	<.1	—	—	—
POT RES.	2.7	2.9	—	2.8	—	—	2.6	—	—	

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT DON 4-30-68
LINE 1 HALF N SP. 1 DATE

PAGE

SEND	12	23	34	45	12	23	34	45	CAL	CAL
RECEIVE	20-25N				25-30N				2A/34	2A/12
RANGE	100	30	30	30	30	30	10	10	300	300
DC 1	560 565	155 136	114 115	124 120	115 118	94 96	702 745	920 970		
DC 2	560 565	158 136	111 110	124 118	115 117	94 96	755 726	960 940	200	
DC 3		156 135	111 114	123 119	114 120	95 96	710 730	942 940	199	
DC 4							789 754	980 949		
DC 5									200	199
DC 6									200	199
DC 7									200	199
DC 8									200	199
DC AVG.										
AC 1	55.4	14.5	11.1	11.9	11.5	9.40	7.22	9.40		
AC 2	55.4	14.5	11.1	11.9	11.5	9.40	7.22	9.40	200	199
AC AVG.									200	199
S.P.	+1.5				+1.2				200	
AC NOISE	2.1				2.1				199	
POT RES.	2.9				3.1					

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT OGD

LINE 1 HALF W SP. 1 DATE 4-30-68

PAGE

SEND	4-5	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5
RECEIVE	0-5 W	5-10 W	→	10-15 W	→	→	15-20 W	→	→	→
RANGE	Hi	→	→	→	→ Hi	→	→	→	→	→
VOLTAGE	400	120	400	70	130	400	230	70	120	400
CURRENT	3.0	3.0	3.0	2.0	3.0	3.0	3.0	2.0	3.0	3.0
SEND	1-2	2-3	3-4	4-5	1-2	2-3	3-4	4-5	CAL	CAL
RECEIVE	20-25 W	→	→	→	25-30 W	→	→	→	3-4	1-2
RANGE	Hi	→	→	→	Hi	→	→	→	Hi	Hi
VOLTAGE	230	70	140	400	270	70	120	400	80	150
CURRENT	3.0	2.0	3.5	3.0	3.5	2.0	3.0	3.0	2.0	2.0

FREQUENCIES .05 Hz 3.0 Hz

SENDER NO. 13671-5

OPERATOR McCoy

RECEIVER NO. 15874-12

OPERATOR King

COMMENTS:

PAGE

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES 500'.4

PROJECT DON 4-29-68
LINE 1 HALF 5 SP. 1 DATE

SEND	12	23	12	34	23	12	45	34	23	12
RECEIVE	0-5S	5-10S	—	10-15S	—	—	15-20S	—	—	—
RANGE	300	100	100	1000	100	100	1000	300	30	100
DC 1	150 158	930 950	632 616	600 600	495 526	500 470	541 539	120 120	296 254	320 342
DC 2	150 158	935 935	620 610	600 600	496 520	495 460	545 540	121 120	270 296	309 340
DC 3	150 158	930 935	626 616	600 600	490 515	500 475	545 540	120 126	261	309 355
DC 4		936	629 621			510	545			330 360
DC 5										330
DC 6										
DC 7										
DC 8										
DC AVG.	154	93.6	62.05	600	50.74	48.4	542	120.2	27.77	33.37
AC 1	146	93.5	62.0	590	50.6	48.0	535	116	27.6	33.3
AC 2	146	93.5	62.0	590	50.6	48.0	535	116	27.0	33.2
AC AVG.	146	93.5	62.0	590	50.6	48.0	53.5	116	27.0	33.25
S.P.	+1.6	-6.3	—	-1.0	—	—	+8.1	—	—	—
AC NOISE	<.1	<.1	—	<.1	—	—	<.1	—	—	—
POT RES.	1.9	2.8	—	2.7	—	—	2.9	—	—	—

30	1.0	10
17.1	6.00	8.40
	6.00	8.40
	720	836 800
	N	780 835
		740 830
		846

8.4

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT DON 4-29-68
LINE 1 HALF 5 SP. 1 DATE

PAGE

SEND	45	34	23	12	45	34	23	12	CAL	CAL
RECEIVE	00-25	S			25-30	S			2A/23	2A/45
RANGE	100	90	10	10	100-	30	10	10		
DC 1	540442	741247	625542	870530	378390	136 191	610665		198	
DC 2	548 440	170 202	645520	670 740	371400	144 195	590 600		196	
DC 3	550460	166 200	660500	760 780	381410	155 151	520 605		195	
DC 4		165 200	640500	782	385411	199 157			196	
DC 5									198	195
DC 6									196	196
DC 7									198	195
DC 8									196	196
DC AVG.	49.37	18.82	5.81	7.51	39.02	16.84	5.96	810	197	195.5
AC 1	49.0	18.5	5.55	7.45	39.1	17.0	6.00	8.40	199	196
AC 2	49.0	18.5	5.56	7.45	39.1	17.0	6.00		199	196
AC AVG.	49	18.5	5.555	7.45	39.1	17.0	6.0		199	196
S.P.	+2.6				-2.7				199	
AC NOISE	<.1				<.5				196	
POT RES.	2.8				2.9					

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT OGD LINE 1 HALF E SP. 1 DATE 4-29-68

PAGE

SEND	1-2	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2
RECEIVE	0-500E	500-1000E →		1000-1500E. →			1500-2000E. →			
RANGE	Hi →				Hi →					
VOLTAGE	230	70	230	120	70	230	270	130	70	230
CURRENT	3.0	2.0	3.0	3.0	2.0	3.0	2.0	3.0	2.0	3.0
SEND	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2	COL	COL.
RECEIVE	2000-2500E. →				2500-3000E. →				2-3	4-5
RANGE	Hi →				Hi →				Hi	Hi
VOLTAGE	270	120	70.	230	260	120	70	230	70	270
CURRENT	2.0	3.0	2.0	3.0	2.0	3.0	2.0	3.0	2.0	2.0

FREQUENCIES .05 Hz 3.0 Hz

SENDER NO. 13671-S

OPERATOR McCoy

RECEIVER NO. 15674 R

OPERATOR King

COMMENTS:

260-68 (Job No.)

Line 2

Spread 1

Looking W

Date April 1968

A= 500'

Center at 0.0

S/N (Label)

3.0 (Freq.)

11

21

31

(CPL)

41

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT DON 4-30-68
LINE 2 HALF S SP. / DATE

PAGE

SEND	45	34	45	23	34	45	12	23	34	45
RECEIVE	0-55	5-105	—	10-155	—	—	15-205	—	—	—
RANGE	300	300	100	300	100	30	300	100	100	30
DC 1	104 105	118 115	400 429	216 216	500 481	261 282	220 220	961 959	318 311	160 170
DC 2	104 105	118 115	400 429	216 216	500 481	261 282	220 220	960 958	314 311	161 174
DC 3						261 282	[illegible]	960 958	310 315	160 172
DC 4							[illegible]			160 174
DC 5										
DC 6										
DC 7							← 5-1-68 CAL			
DC 8										
DC AVG.										
AC 1	104	115	41.0	215	48.6	27.0	219	95.0	31.0	16.4
AC 2	104	115	41.6	215	48.6	27.0	219	95.0	31.0	16.4
AC AVG.										
S.P.	+1.4	-0.6	—	-1.0	—	—	-3.6	—	—	—
AC NOISE	2.1	2.1	—	2.1	—	—	2.1	—	—	—
POT RES.	2.1	1.2	—	0.6	—	—	1.0	—	—	—

5-1-68
199
CAL 199

198
198
198
198

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT DON 4-30-68
LINE 2 HALF S SP. 1 DATE

PAGE

SEND	12	23	34	45	12	23	34	45	CAL	CAL
RECEIVE	20-25				25-30				2A/34	2A/12
RANGE	790 761	100	30	10	30	30	10	10		
DC 1	789 764	450 429	156 175	970 910	235 244	146 155	625 685	386 412		
DC 2	789 761	449 425	156 174	998 910	234 245	148 155	620 690	400 408	199	
DC 3	100	449 426	160 173	995 905	231 245	149 155	620 690	390 411	198	
DC 4								390 420		
DC 5										
DC 6									199	199
DC 7	← 5-1-68 CAL							→	199	199
DC 8									199	199
DC AVG.									199	199
AC 1	76.9	43.0	16.4	9.41	23.6	15.0	6.50	4.00		
AC 2	76.9	43.0	16.4	9.42	23.6	15.0	6.50	4.00	199	199
AC AVG.									199	199
S.P.	+0.9				+6.3					
AC NOISE	<.1				<.1					
POT RES.	0.6				3.2					

PAGE

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT OGD 4-30-68

LINE 2 HALF S SP. 1 DATE

SEND	4-5	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5
RECEIVE	0-5 S	5-10 S	→	10-15 S.	→		15-20 S.	→		
RANGE	Hi	→			Hi	→				
VOLTAGE	320	260	320	240	220	320	220	220	220	250
CURRENT	2.5	3.5	2.5	3.0	3.0	2.5	3.0	3.0	3.0	2.0
SEND	1-2	2-3	3-4	4-5	1-2	2-3	3-4	4-5	CAL	CAL
RECEIVE	20-25 S.	→			25-30 S.	→			3-4	1-2
RANGE	Hi	→			Hi	→			Hi	Hi
VOLTAGE	220	220	220	250	220	220	220	250	150	140
CURRENT	3.0	3.0	3.0	2.0	3.0	3.0	3.0	2.0	2.0	2.0

FREQUENCIES .05 Hz 3.0 Hz

SENDER NO. 13671-5

OPERATOR McCoy

RECEIVER NO. 15574-R

OPERATOR King

COMMENTS:

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Don 5-1-68
LINE 2 HALF N SP. 1 DATE

PAGE

SEND	12	23	12	34	23	12	45	34	23	12
RECEIVE	0-5N	5-10N	—	10-15N	—	—	15-20N	—	—	—
RANGE	100	300	100	300	100	100	300	100	30	30
DC 1	990 965	124 125	491 495	176 186	715 710	395 400	112 110	430 435	219 226	149 140
DC 2	990 965	124 125	491 495	176 186	715 710	395 400	112 110	430 435	219 226	149 140
DC 3										
DC 4										
DC 5										
DC 6										
DC 7										
DC 8										
DC AVG.										
AC 1	97.0	122	49.0	180	71.0	39.5	111	43.0	22.0	14.2
AC 2	97.0	122	49.0	180	71.0	39.5	111	43.0	22.0	14.2
AC AVG.										
S.P.	+3.4	-2.3	—	+6.0	—	—	+1.1	—	—	—
AC NOISE	<.1	<.1	—	<.1	—	—	<.1	—	—	—
POT RES.	1.3	1.3	—	3.2	—	—	6.2	—	—	—

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Don 5-1-68
LINE 2 HALF N SP. 1 DATE

PAGE

SEND	45	34	23	12	45	34	23	12	CAL	CAL
RECEIVE	20-25N				25-30N				2A/23	2A/45
RANGE	100	100	30	30	100	30	30	30		
DC 1	511515	300306	202 182	139 146	286 300	200 190	150 128	98 116		
DC 2	511515	300306	200 182	135 147	280 305	201 186	150 125	96 120		
DC 3			202 186	135 148	275 310	205 186	150 125	97 116		
DC 4			204 180	134 148				99 118		
DC 5									200	200
DC 6									199	199
DC 7									200	200
DC 8									199	199
DC AVG.										
AC 1	51.0	30.0	19.0	14.0	29.0	19.4	13.6	10.6	200	200
AC 2	51.0	30.0	19.0	14.0	29.0	19.4	13.6	10.6	200	200
AC AVG.										
S.P.	-1.1				-2.6					
AC NOISE	<.1				<.1					
POT RES.	3.7				3.5					

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT OGD

LINE 2 HALF N SP. 1 DATE 5-1-68

PAGE

SEND	1-2	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2
RECEIVE	0-5N	5-10N	→	10-15N	→	→	15-20N	→	→	→
RANGE	Hi	→	→	→	→	→ Hi	→	→	→	→
VOLTAGE	220	220	220	220	220	220	240	220	220	220
CURRENT	3.0	3.0	3.0	3.0	3.0	3.0	2.0	3.0	3.0	3.0
SEND	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2	CAL	CAL
RECEIVE	20-25N	→	→	→	25-30N	→	→	→	2-3	4-5
RANGE	Hi	→	→	→	Hi	→	→	→	Hi	Hi
VOLTAGE	250	220	220	220	250	220	220	220	140	250
CURRENT	2.0	3.0	3.0	3.0	2.0	3.0	3.0	3.0	2.0	2.0

FREQUENCIES .05 Hz 3.0 Hz

SENDER NO. 13671-S

OPERATOR McCoy

RECEIVER NO. 15879-R

OPERATOR King

COMMENTS:

HEINRICHS GEOEX B-260-68 LINE 2 SPD 1 LOOKING W 4-30-68 A= 500 FEET

2.500	3.500	2.500	3.000	3.000	2.500	3.000	3.000	3.000	2.000	I	3.000	3.000	3.000	2.000	3.000	3.000	3.000	2.000	2.000	
104	118	400	216	500	261	22	961	318	160	DC	790	450	156	970	235	146	625	386	199	LEFT
105	115	429	216	481	282	22	959	311	170		761	429	175	910	244	155	685	412	198	SIDE
							960	314	161		789	449	156	998	234	148	620	400	199	
							958	311	174		764	425	174	910	245	155	690	408	198	
							960	310	160		789	449	160	995	231	149	620	390		
							958	315	172		761	426	172	905	245	155	690	411		
									160									390		
									174									420		
104.5	116.5	41.45	216.0	49.05	27.15	220.0	95.93	31.25	16.63	DCA	77.57	43.80	16.58	9.501	23.88	15.15	6.545	4.020	198.5	
104.0	115.0	41.00	215.0	48.60	27.00	219.0	95.00	31.00	16.40	AC1	76.90	43.00	16.40	9.410	23.60	15.00	6.500	4.000	199.0	
104.0	115.0	41.00	215.0	48.60	27.00	219.0	95.00	31.00	16.40	AC2	76.90	43.00	16.40	9.420	23.60	15.00	6.500	4.000	199.0	
104.0	115.0	41.00	215.0	48.60	27.00	219.0	95.00	31.00	16.40	ACA	76.90	43.00	16.40	9.415	23.60	15.00	6.500	4.000	199.0	
63.17	50.31	100.2	108.8	98.84	164.1	110.8	193.3	157.4	251.3	RHO	156.3	220.7	167.1	251.3	120.3	152.6	115.4	170.1	1.008	DC CAL
.7	1.6	1.4	.7	1.2	.8	.7	1.2	1.1	1.6	PFE	1.1	2.1	1.4	1.2	1.4	1.3	.9	.8	1.003	AC CAL
12	31	13	7	12	5	6	6	7	7	MCF	7	10	8	5	12	8	8	4		

3.000	3.000	3.000	3.000	3.000	3.000	2.000	3.000	3.000	3.000	I	2.000	3.000	3.000	3.000	2.000	2.000	2.000	2.000	2.000	
990	124	491	176	715	395	112	430	219	149	DC	511	300	202	139	286	200	150	98	200	RIGHT
965	125	495	186	710	400	110	435	226	140		515	306	182	146	300	190	128	116	199	SIDE
													200	135	280	201	150	96	200	
													182	147	305	186	125	120	199	
													202	135	275	205	150	97		
													186	148	310	186	125	116		
													204	134				99		
													180	148				118		
97.75	124.5	49.30	181.0	71.25	39.75	111.0	43.25	22.25	14.45	DCA	51.30	30.30	19.24	14.12	29.16	19.50	13.81	10.74	199.5	
97.00	122.0	49.00	180.0	71.00	39.50	111.0	43.00	22.00	14.20	AC1	51.00	30.00	19.00	14.00	29.00	19.40	13.60	10.60	200.0	
97.00	122.0	49.00	180.0	71.00	39.50	111.0	43.00	22.00	14.20	AC2	51.00	30.00	19.00	14.00	29.00	19.40	13.60	10.60	200.0	
97.00	122.0	49.00	180.0	71.00	39.50	111.0	43.00	22.00	14.20	ACA	51.00	30.00	19.00	14.00	29.00	19.40	13.60	10.60	200.0	
49.00	62.41	98.85	90.73	142.9	199.2	83.46	86.72	111.5	144.9	RHO	154.3	151.9	192.9	247.7	219.2	293.2	363.4	452.3	1.003	DC CAL
1.0	2.3	.9	.8	.6	.9	.3	.8	1.4	2.0	PFE	.8	1.3	1.5	1.1	.8	.8	1.8	1.6	1.003	AC CAL
21	37	9	9	4	4	3	10	12	14	MCF	5	8	8	5	4	3	5	4		

260-68 (Job No.)

Line 3

Spread 1

Looking N

Date May 1968

A= 500 pt

Center at 0.0

W/E (Label)

3.0 (Freq.)

11

21

31

(CPL)

41

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT DON 5-1-68
LINE 3 HALF W SP. 1 DATE

PAGE

SEND	45	34	45	23	34	45	12	23	34	45
RECEIVE	0-5W	5-10W	—	10-15W	—	—	15-20W	—	—	—
RANGE	1000	1000	300	1000	100	100	300	100	30	30
DC 1	400 400	335 331	102 99	408 400	760 770	340 350	241 240	871 889	256 281	146 140
DC 2	400 400	335 331	102 99	408 400	760 770	350 342	241 240	871 890	252 285	144 144
DC 3						350 340		871 889	251 287	136 150
DC 4										
DC 5										
DC 6										
DC 7										
DC 8										
DC AVG.										
AC 1	396	330	100	379	75.4	34.0	236	86.5	26.4	14.0
AC 2	396	330	100	379	75.4	34.0	236	86.5	26.4	14.0
AC AVG.										
S.P.	+1.4	+4.9	—	+3.4	—	—	-4.0	—	—	—
AC NOISE	<.1	<.1	—	<.1	—	—	<.1	—	—	—
POT RES.	3.2	2.8	—	3.2	—	—	3.6	—	—	—

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Dow 5-1-68
LINE 3 HALF W SP. 1 DATE

PAGE

SEND	12	23	34	45	12	23	34	45	CAL	CAL
RECEIVE	20-25W				25-30W				2A/34	2A/12
RANGE	100	100	30	30	100	100	30	10		
DC 1	890 911	566 521	206 207	110 120	430 445	315 330	144 126	720 858		
DC 2	890 912	570 521	202 210	111 122	430 450	310 330	146 125	748 901		
DC 3	880 920	571 521	200 214	114 120	425 446	310 330	138 126	731 860	197	
DC 4								710 860	197	
DC 5										
DC 6	P							N	196	198
DC 7									196	198
DC 8									196	198
DC AVG.									196	198
AC 1	88.1	53.5	20.0	11.4	43.0	31.6	13.0	7.80		
AC 2	88.1	53.5	20.0	11.4	43.0	31.6	13.0		196	198
AC AVG.									196	198
S.P.	14.7				-2.8				197	
AC NOISE	<.1				<.1					
POT RES.	3.2				3.0					

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PAGE

PROJECT Another Chance Mine

LINE 3 HALF W SP. 1 DATE 5-1-68

SEND	4-5	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5
RECEIVE	0-5 W	5-10 W	→	10-15 W	→	→	15-20 W	→	→	→
RANGE	Hi	→	→	→	→	Hi	→	→	→	→
VOLTAGE	290	380	290	280	320	240	260	280	250	200
CURRENT	3.0	3.0	3.0	2.0	2.5	2.5	2.0	2.0	2.0	2.0
SEND	1-2	2-3	3-4	4-5	1-2	2-3	3-4	4-5	CAL	CAL
RECEIVE	20-25 W	→	→	→	25-30 W	→	→	→	3-4	1-2
RANGE	Hi	→	→	→	→ Hi	→	→	→	Hi	Hi
VOLTAGE	260	280	250	200	260	280	250	200	260	270
CURRENT	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0

FREQUENCIES .05 Hz 3.0 Hz

SENDER NO. 13671-S

OPERATOR McCoy

RECEIVER NO. 15679-R

OPERATOR Kelly

COMMENTS:

POLARIZATION: 1-2, 2-3 15-20 W

" 1-2, 2-3 20-25 W.

" 1-2 25-30 W

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT DON 5-1-68
LINE 3 HALF E SP. 1 DATE

PAGE

SEND	12	23	12	34	23	12	45	34	23	12
RECEIVE	0-5E	5-10E	—	10-15E	—	—	15-20E	—	—	—
RANGE	300	300	100	100	100	30	100	100	30	30
DC 1	221/221	266/274	690/644	911/920	390/390	175/166	980/950	370/371	256/284	148/135
DC 2	222/222	268/272	690/642	910/920	398/390	180/160	981/945	390/360	261/280	151/139
DC 3		268/274	692/640	910/920	400/394	184/175	970/960	410/344	267/281	150/144
DC 4						165/160				150/141
DC 5										
DC 6										
DC 7										
DC 8										
DC AVG.										
AC 1	21.9	26.5	65.9	90.0	39.0	16.6	95.0	37.2	27.0	14.2
AC 2	21.9	26.5	65.9	90.0	39.0	16.6	95.0	37.1	27.0	14.2
AC AVG.										
S.P.	+3.9	+5.3	—	-2.5	—	—	+6.0	—	—	—
AC NOISE	<.1	<.1	—	<.1	—	—	<.1	—	—	—
POT RES.	3.3	3.7	—	3.9	—	—	4.1	—	—	—

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT DON 5-1-68
LINE 3 HALF E SP. 1 DATE

PAGE

SEND	45	34	23	12	45	34	23	12	CAL	CAL
RECEIVE	20-25E				25-30E				2A/23	2A/45
RANGE	100	30	30	30	30	30	30	10	198	
DC 1	371 370	210 200	185 196	102 116	186 209	116 136	135 137	811 871	198	
DC 2	371 371	210 201	185 201	105 117	186 206	121 139	130 141	751 880	199	
DC 3	370 370	210 200	184 196	100 119	186 205	115 140	125 145	810 850	200	
DC 4			185 198	105 118	191 206	119 140	125 141	800 839		
DC 5								860 822	198	199
DC 6								835 800	198	200
DC 7									198	199
DC 8									198	200
DC AVG.										
AC 1	36.8	20.2	18.8	10.9	19.5	12.6	13.4	8.16	198	199
AC 2	36.8	20.2	18.9	10.9	19.5	12.6	13.4	8.16	198	199
AC AVG.									198	
S.P.	-11.3				+14.4				199	
AC NOISE	2.3				4.1					
POT RES.	3.8				4.3					

PAGE

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT ANOTHER CHANCE 5-1-68

LINE 3 HALF E SP. 1 DATE

SEND	1-2	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2
RECEIVE	0-5E	5-10E	→	10-15E	→	→	15-20E	→	→	→
RANGE	Hi	→	→	→	Hi	→	→	→	→	→
VOLTAGE	260	270	260	250	270	260	200	250	270	260
CURRENT	2.0	→	→	→	2.0	→	→	→	→	→
SEND	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2	CAL	CAL
RECEIVE	20-25E	→	→	→	25-30E	→	→	→	2-3	4-5
RANGE	Hi	→	→	→	Hi	→	→	→	Hi	Hi
VOLTAGE	200	250	270	260	200	250	270	260	270	200
CURRENT	2.0	→	→	→	2.0	→	→	→	2.0	2.0

FREQUENCIES .05 Hz 3.0 Hz

SENDER NO. 13671-5

OPERATOR McCoy

RECEIVER NO. 15679-R

OPERATOR King

COMMENTS:

POLARIZATION: 1-2 0-5E.

1-2, 2-3 5-10E

1-2, 2-3, 3-4, 4-5 10-15E

CHANGE TO: .05 Hz & 1.0 Hz @ 20-25E

HEINRICHS GEOEX B-260-68 LINE 3 SPD 1 LOOKING N / 5-1-68 A= 500 FEET

3.000	3.000	3.000	2.000	2.500	2.500	2.000	2.000	2.000	2.000	I	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	
4	335	102	408	760	340	241	871	256	146	DC	890	566	206	110	430	315	144	720	197	LEFT
4	331	99	400	770	350	240	889	281	140		911	521	207	120	445	330	126	858	197	SIDE
					350		871	252	144		890	570	202	111	430	310	146	748		
					342		890	285	144		912	521	210	122	450	330	125	901		
					350		871	251	136		880	571	200	114	425	310	138	731		
					340		889	287	150		920	521	214	120	446	330	126	880		
																		710		
																		860		
400.0	333.0	100.5	404.0	76.50	34.64	240.5	88.02	26.81	14.24	DCA	89.96	54.53	20.58	11.64	43.76	32.05	13.40	8.026	197.0	
396.0	330.0	100.0	399.0	75.40	34.00	236.0	86.50	26.40	14.00	AC1	88.10	53.50	20.00	11.40	43.00	31.60	13.00	7.800	197.0	
396.0	330.0	100.0	399.0	75.40	34.00	236.0	86.50	26.40	14.00	AC2	88.10	53.50	20.00	11.40	43.00	31.60	13.00	7.800	197.0	
396.0	330.0	100.0	399.0	75.40	34.00	236.0	86.50	26.40	14.00	ACA	88.10	53.50	20.00	11.40	43.00	31.60	13.00	7.800	197.0	
203.0	169.0	204.1	307.6	186.4	211.0	183.1	268.1	204.1	216.9	RHO	274.0	415.2	313.4	310.2	333.2	488.1	357.1	342.2	1.015	DC CAL
1.0	.9	.5	1.3	1.5	1.9	1.9	1.8	1.6	1.7	PFE	2.1	1.9	2.9	2.1	1.8	1.4	3.1	2.9	1.000	AC CAL
5	5	2	4	8	9	10	7	8	8	MCF	8	5	9	7	5	3	9	8		

2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	I	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	
221	266	690	911	390	175	980	370	256	148	DC	371	210	185	102	186	116	135	811	198	RIGHT
221	274	644	920	390	166	950	371	284	135		370	200	196	116	209	136	137	871	198	SIDE
222	268	690	910	398	180	981	390	261	151		371	210	185	109	186	121	130	791	/	
222	272	642	920	390	160	945	360	280	139		371	201	201	117	206	139	141	880	199	
	268	692	910	400	184	970	410	267	150		370	210	184	100	186	115	125	810	200	
	274	640	920	390	175	960	344	281	144		370	200	196	119	205	140	145	850		
					165				150				185	105	191	119	125	800		
					160				141				198	118	206	140	141	839		
																		860		
																		822		
																		835		
																		800		
221.5	270.4	66.66	91.51	39.36	17.11	96.32	37.76	27.21	14.48	DCA	37.05	20.52	19.12	11.09	19.70	12.83	13.44	8.330	198.7	
219.0	265.0	65.90	90.00	39.00	16.60	95.00	37.20	27.00	14.20	AC1	36.80	20.20	18.80	10.90	19.50	12.60	13.40	8.160	198.0	
219.0	265.0	65.90	90.00	39.00	16.60	95.00	37.10	27.00	14.20	AC2	36.80	20.20	18.90	10.90	19.50	12.60	13.40	8.160	199.0	
219.0	265.0	65.90	90.00	39.00	16.60	95.00	37.15	27.00	14.20	ACA	36.80	20.20	18.85	10.90	19.50	12.60	13.40	8.160	198.5	
167.2	204.1	201.2	69.06	118.8	129.1	72.69	114.0	205.4	218.5	RHO	111.8	154.9	288.6	292.8	148.7	193.6	355.1	352.1	1.006	DC CAL
1.0	1.9	1.0	1.5	.8	2.9	1.3	1.5	.7	1.8	PFE	.6	1.5	1.3	1.6	.9	1.7	.2	2.0	.999	AC CAL
6	9	5	22	7	23	17	13	3	8	MCF	5	9	5	5	6	9	1	6		

5698987

HEINRICHS GEOEX 8-260-68 LINE 3 SPD 1 LOOKING N 5-1-68 A= 500 FEET

1 2 3 4 5

SURFACE

30W 25 20 15 10 5 0W/E 5 10 15 20 25 30E

Low ρ surface material

RHO/2PI

N	30W	25	20	15	10	5	0W/E	5	10	15	20	25	30E
1	X	X	X	X183	X308	X167→169 168	X204→203 204	X69	X73	X	X	X	X
2	X	X	X	X274	X268	X186	X201→204 202	X119	X114	X112	X	X	X
3	X	X	X	X333	X415	X204	X211	X129	X205	X155	X149	X	X	X
4	X	X	X	X488	X313	X217	X	X219	X289	X194	X	X	X
5	X	X	X	X357	X310	X	X	X293	X355	X	X	X	X
6	X	X	X	X	X342	X	X	X	X352	X	X	X	X

1 2 3 4 5

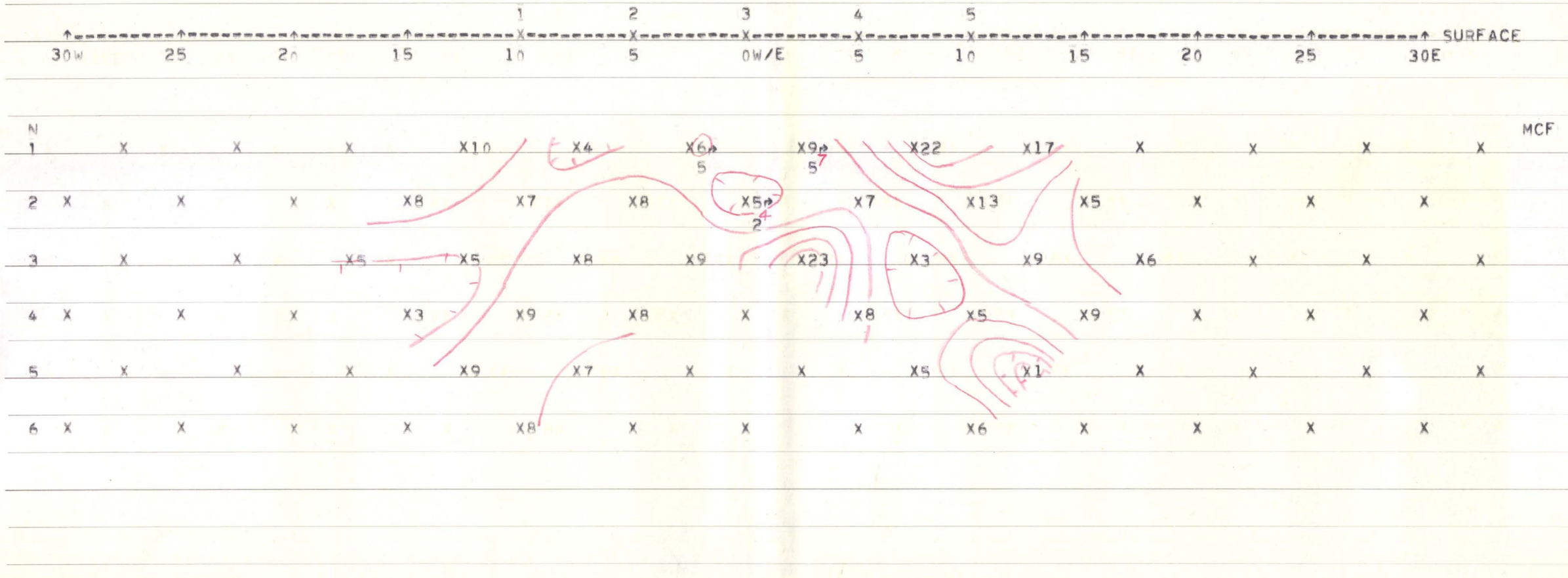
SURFACE

30W 25 20 15 10 5 0W/E 5 10 15 20 25 30E

PFE

N	30W	25	20	15	10	5	0W/E	5	10	15	20	25	30E
1	X	X	X	X1.9	X1.3	X1.0→.9	X1.9→1.0 1.4	X1.5	X1.3	X	X	X	X
2	X	X	X	X2.1	X1.8	X1.5	X1.0→.5 0.8	X.8	X1.5	X.6	X	X	X
3	X	X	X	X1.8	X1.9	X1.6	X1.9	X2.9	X.7	X1.5	X.9	X	X	X
4	X	X	X	X1.4	X2.9	X1.7	X	X1.8	X1.3	X1.7	X	X	X
5	X	X	X	X3.1	X2.1	X	X	X1.6	X.2	X	X	X	X
6	X	X	X	X	X2.9	X	X	X	X2.0	X	X	X	X

0	0
1	4
6	9
9	6
5	12
10	1
7	15


1 2 3 4 5
SURFACE
30W 25 20 15 10 5 0W/E 5 10 15 20 25 30E
N
MCF
1 X X X X10 X4 X6 5 X9 5 7 X22 X17 X X X X
2 X X X X8 X7 X8 X5 2 4 X7 X13 X5 X X X
3 X X X5 X5 X8 X9 X23 X3 X9 X6 X X X
4 X X X X3 X9 X8 X X8 X5 X9 X X X
5 X X X X9 X7 X X X5 X1 X X X X
6 X X X X X8 X X X X6 X X X X

T 13 S, R 18 E
G&SRB&M

NOTE: THIS SHEET OVERLAYS BASE MAP FURNISHED BY OLD GRAND DAD MINING CO.

RELATIVE ANOMALY STRENGTH

I.P. LINE NO. → 2

VERY WEAK | WEAK | MODERATE | STRONG

STATIONS · ELECTRODES

N

HEINRICHS
GEOEXPLORATION COMPANY
geophysical engineers
POST OFFICE BOX 5671, TUCSON, ARIZONA, 85703
Phone: 602/623-0578 Cable: GEOEX, Tucson
vancouver
sydney

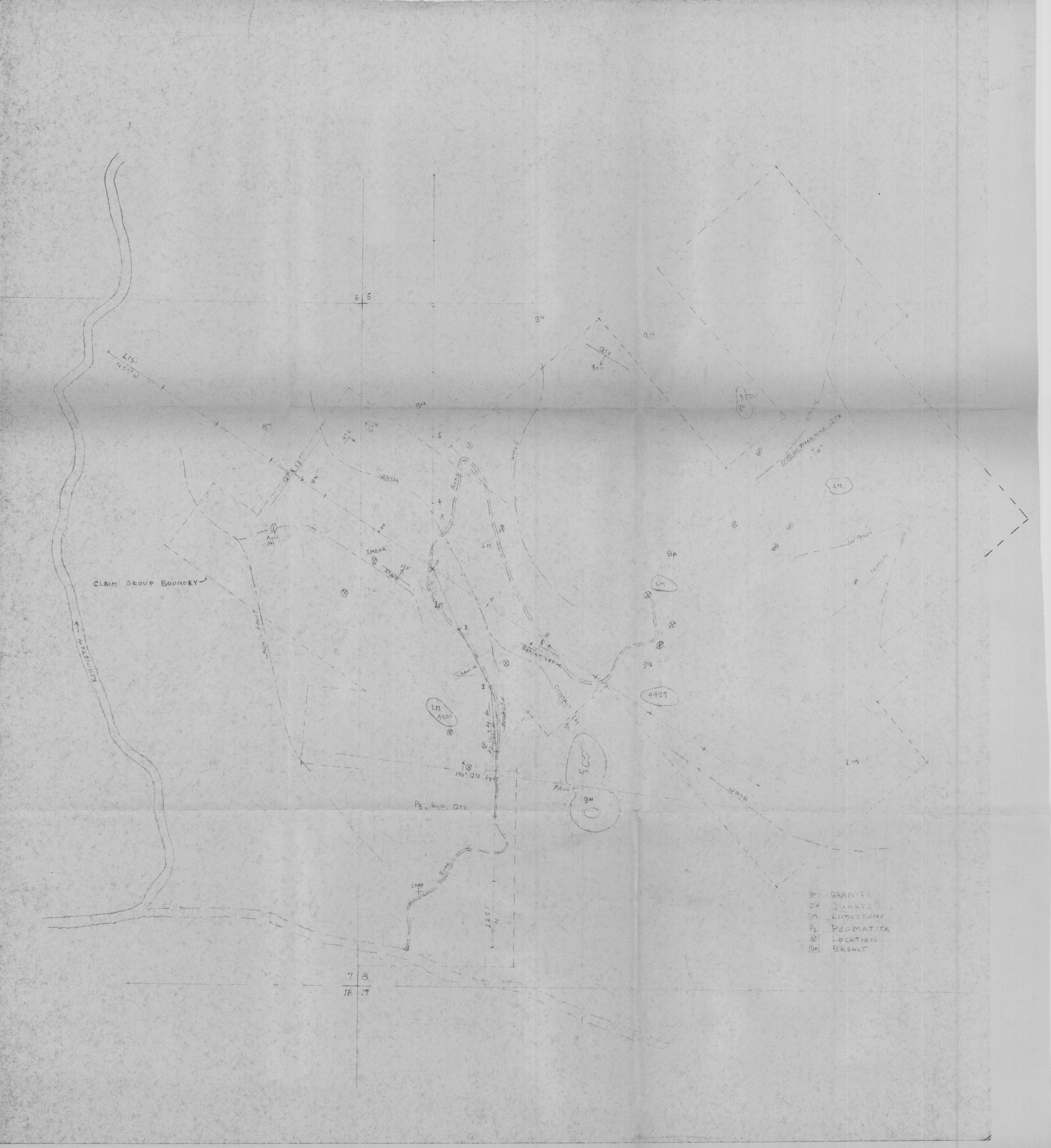
INDUCED POLARIZATION LOCATION AND INTERPRETATION PLAN

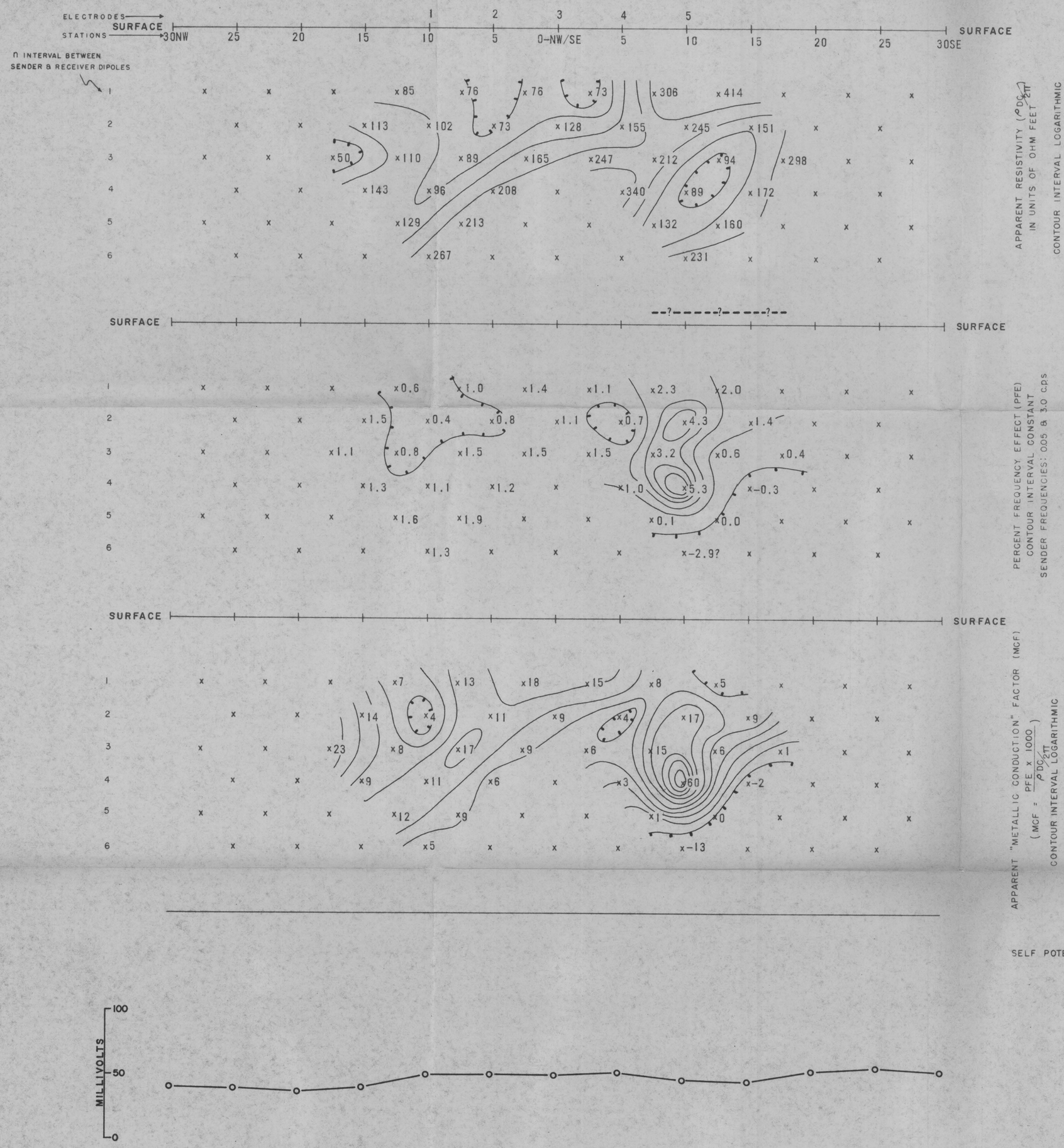
OLD GRAND DAD MINE
PIMA COUNTY, ARIZONA

FOR

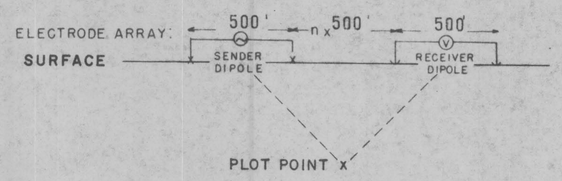
OLD GRAND DAD MINING CO.

SCALE: 1" = 500' | DRAWN BY: JAY DOWNS | DATE: MAY 1968

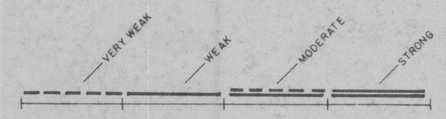

6 5
7 8
18 17
L151
N 57° W
CLAIM GROUP BOUNDRY
NORTHERN
gN
QTZ
WASH
ROAD
SABER
LM
BA
SCHIST LEDGE
CONTACT
FAULT
4997
4900
170° QTZ. EPDT
CAMP
L251
N
3500
HYDRO THERMAL QTZ
GRANITE
QUARTZ
LIMESTONE
PEGMATITE
LOCATION
BASALT



EXPLANATION



RELATIVE ANOMALY STRENGTH



LOOKING N 34° E

OLD GRAND DAD MINE

SECTIONAL DATA SHEET
LINE NO. 1
INDUCED POLARIZATION TRAVERSE

HEINRICHS GEOEXPLORATION COMPANY

SCALE: 1" = 500' DATE: APR 1968

FOR

OLD GRAND DAD MINING CO.

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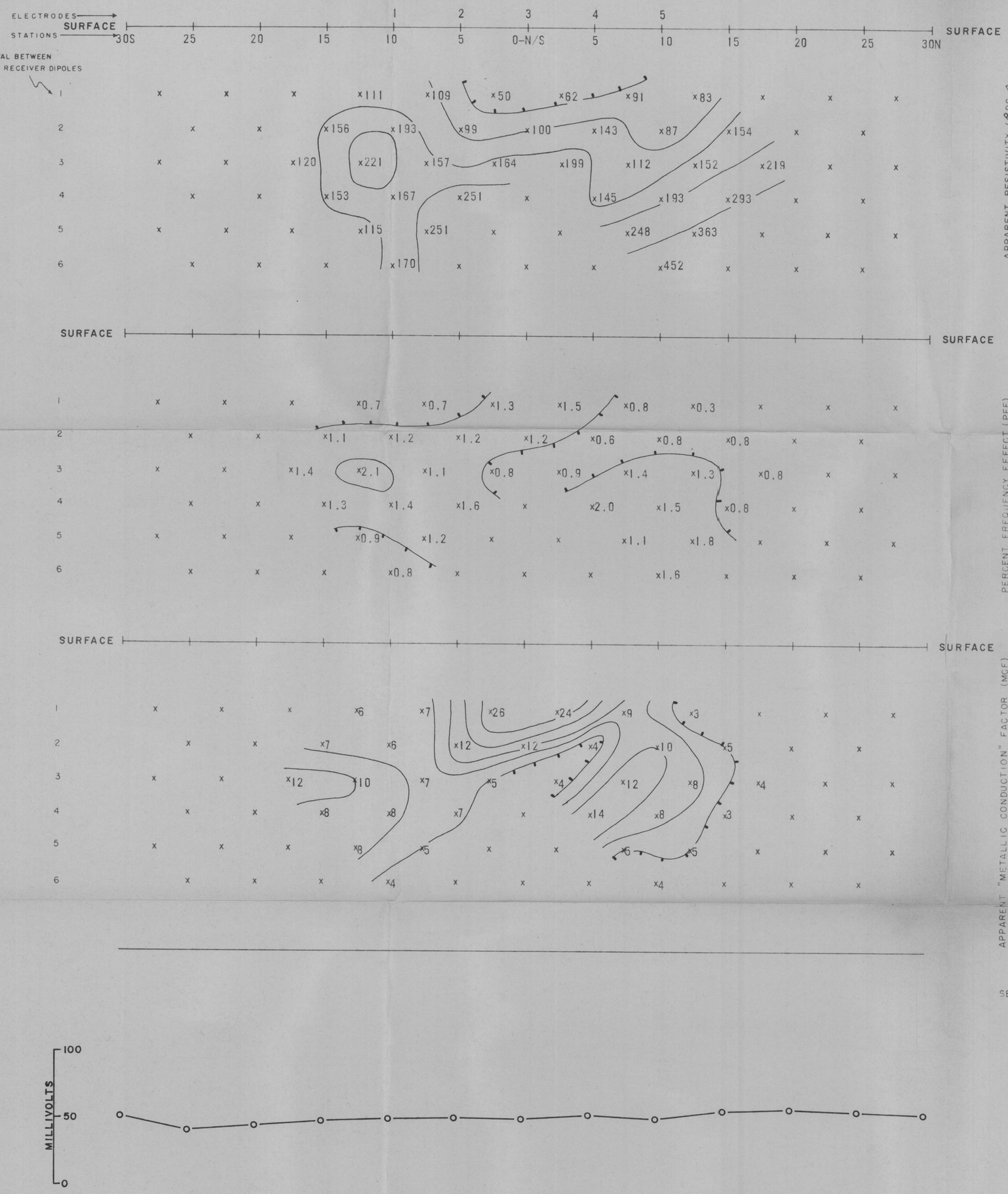
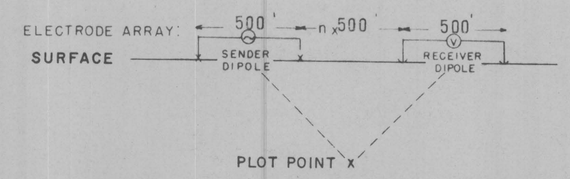
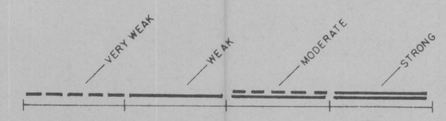
vancouver
sydney



EXPLANATION



RELATIVE ANOMALY STRENGTH



LOOKING WEST

OLD GRAND DAD MINE

SECTIONAL DATA SHEET

LINE NO. 2

INDUCED POLARIZATION TRAVERSE

HEINRICHS GEOEXPLORATION COMPANY

SCALE: 1" = 500' DATE: APR 1968

FOR

OLD GRAND DAD MINING CO.

SELF POTENTIAL

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