572

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT MINERAL BUTTE
LINE 4E HALF S SP. 1 DATE 9-17-70

SEND	5-6	1-2	2-3	3-4	4-5					
RECEIVE	6-10s	10-14s								
RANGE	0.1	1.0	0.1	0.1	0.1					
DC 1	2.4	5.0	3.9	2.9	2.5					
DC 2										
DC 3										
DC 4 Cur	3	3	3	3	3					
DC 5 #	19	20	21	22	23					
DC 6 n	6	3	4	5	6					
DC 7										
DC 8										
DC AVG.										
AC 1	3.41	11.5	7.32	3.90	3.56					
AC 2	0.0	0.0	0.0	0.0	0.0					
AC AVG.										
S.P.		+13.4								
AC NOISE										
POT RES.		4K								

572

PAGE 3

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT MINERAL BUTTE

LINE 4E HALF 5 SP. 1 DATE 9-17-70

SEND	4-5	5-6	3-4	4-5	5-6	2-3	3-4	4-5	5-6	1-2
RECEIVE	6-10N	→	2-6N	→	→	2S-2N	→	→	→	2-6S
RANGE	30X100	30X100	30X100	30X100	30X100	30X100	30X100	30X100	30X100	30X100
VOLTAGE	340	300	260	340	300	320	260	340	300	440
CURRENT	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
SEND	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5	5-6	1-2
RECEIVE	2-6S	→	→	→	6-10S	→	→	→	→	10-14S
RANGE	30X100	30X100	30X100	30X100	30X100	30X100	30X100	30X100	30X100	30X100
VOLTAGE	320	260	340	300	440	320	260	340	300	440
CURRENT	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0

FREQUENCIES 3 0.3

SENDER NO. 66445

OPERATOR PAT McMANUS

RECEIVER NO. 20693R

OPERATOR BILL FREEMAN

COMMENTS:

572

PAGE 4

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Mineral Butte

LINE 4E HALF S SP. 1 DATE 9-17-70

SEND	2-3	3-4	4-5	4-5						
RECEIVE	10-14s	—	—	CAL						
RANGE	30X100	30X100	30X100	10X100						
VOLTAGE	320	270	340	110						
CURRENT	3.0	3.0	3.0	1.0						
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES 3 0.3

SENDER NO. 6644S

OPERATOR PAT McMANUS

RECEIVER NO. 20693R

OPERATOR BILL FREEMAN

COMMENTS:

Job 572, Line 4E, Sp 2, N½, 9/17/70 400.

For Cal Card: Duplicate Line 4E, Sp 1, S½ Cal Card

572

PAGE 7

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT MINERAL BUTTE
LINE 4E HALF N SP. 2 DATE 9-17-70

SEND	3-4	4-5	5-6	4-5	5-6	5-6	4-5	3-4	2-3	1-2
RECEIVE	22-26	→	→	26-30	→	30-34	42-46	→	→	→
RANGE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
DC 1	1.6	2.8	3.1	1.9	2.4	1.2	1.1	1.8	2.5	3.1
DC 2										
DC 3										
DC 4 Cu	3	3	3	3	3	3	3	3	3	3
DC 5 #	1	2	3	4	5	6	7	8	9	10
DC 6 n	1	2	3	1	2	1	1	2	3	4
DC 7										
DC 8										
DC AVG.										
AC 1	165.	52.8	23.2	201.	62.0	209.	210.	71.4	29.5	12.6
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.							-4.5			
AC NOISE										
POT RES.							4K			

572

PAGE 8

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Mineral Butte
LINE 4E HALF N SP. 2 DATE 9-17-70

SEND	5-6	4-5	3-4	2-3	1-2	5-6	4-5	3-4	2-3	1-2
RECEIVE	46-50	→	→	→	→	50-54	→	→	→	→
RANGE	1.0	1.0	1.0	1.0	0.1	1.0	1.0	1.0	1.0	0.1
DC 1	1.1	1.3	2.0	2.7	3.1	1.1	1.3	1.9	2.6	2.7
DC 2										
DC 3										
DC 4 Pair	3	3	3	3	3	3	3	3	3	3
DC 5 #	11	12	13	14	15	16	17	18	19	20
DC 6 "	1	2	3	4	5	2	3	4	5	6
DC 7										
DC 8										
DC AVG.										
AC 1	244.	59.5	30.5	15.7	7.41	87.0	35.6	22.4	13.1	6.66
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.	+9.9					+35.5				
AC NOISE										
POT RES.	5K					5K				

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT MINERAL BUTTE 57L

LINE 4E HALF N SP. 2 DATE 9-17-20

PAGE 9

SEND	5-6	4-5	3-4	2-3	5-6	4-5	3-4			
RECEIVE	54-58	→	→	→	58-66	→	→			
RANGE	1.0	1.0	1.0	0.1	1.0	0.1	0.1			
DC 1	1.1	1.2	2.0	2.3	1.1	1.2	1.8			
DC 2										
DC 3										
DC 4 Cu	3	3	3	3	3	3	3			
DC 5 #	21	22	23	24	25	26	27			
DC 6 n	3	4	5	6	4	5	6			
DC 7										
DC 8										
DC AVG.										
AC 1	38.3	19.7	13.7	8.51	16.4	9.30	6.82			
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
AC AVG.										
S.P.	-10.3				+28.2					
AC NOISE										
POT RES.	2K				3K					

572

PAGE 5

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT MINERAL BUTTE

LINE 4E HALF N SP. 2 DATE 4-17-7

SEND	3-4	4-5	5-6	4-5	5-6	5-6	4-5	3-4	2-3	1-2
RECEIVE	22-26	→	→	26-30	→	30-34	42-46	→	→	→
RANGE	30X100	30X100	30X100	30X100	30X100	30X100	30X100	30X100	30X100	30X100
VOLTAGE	220	340	480	340	480	480	360	230	460	470
CURRENT	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
SEND	5-6	4-5	3-4	2-3	1-2	5-6	4-5	3-4	2-3	1-2
RECEIVE	46-50	→	→	→		50-54	→	→	→	
RANGE	30X100	30X100	30X100	30X100	30X100	30X100	30X100	30X100	30X100	30X100
VOLTAGE	500	360	230	460	470	500	360	230	460	470
CURRENT	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0

FREQUENCIES 3 0.3

SENDER NO. 66445

OPERATOR PAT McMANUS

RECEIVER NO. 20693R

OPERATOR BILL FREEMAN

COMMENTS:

572

PAGE 6

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Mineral Butte

LINE 4E HALF N SP. 2 DATE 9-17-70

SEND	5-6	4-5	3-4	2-3	5-6	4-5	3-4			
RECEIVE	54-58	→		→	58-62	→				
RANGE	30X100	30X100	30X100	30X100	30X100	30X100	30X100			
VOLTAGE	500	360	230	460	500	360	230			
CURRENT	3.0	3.0	3.0	3.0	3.0	3.0	3.0			
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES 3 0.3

SENDER NO. 66445

OPERATOR Pat McManus

RECEIVER NO. 20693 R

OPERATOR Bill Freeman

COMMENTS:

JOB 572 LINE 4E SP1 N1/2 9/17/70 400 FEET=DIPOLE LENGTH
CAL GROUP NO. 1

CAL CUR	PFE	AC1	AC2	AC FREQ	DC FREQ	PFE CAL	RHO CAL
1.000	-.10	97.500	0.00	3.00	.30	-.1000	1.0256

COMPUTED DATA									FIELD DATA					
POINT NO.	N	RHO	PFE	MCF	CCPFE	CCMCF	CPFE		PFE	CUR	PT.	N	AC1	AC2
1	1	47.33	2.10	44.4	2.10	44.4	0.00	**	2.00	3.00	1	1	113.000	0.00
2	2	67.82	4.10	60.5	4.10	60.5	0.00	**	4.00	3.00	2	2	39.700	0.00
3	1	44.34	1.00	22.6	1.00	22.6	0.00	**	.90	3.00	3	1	107.000	0.00
4	2	66.27	2.50	37.7	2.50	37.7	0.00	**	2.40	3.00	4	2	39.400	0.00
5	3	73.39	4.00	54.5	3.92	53.5	.08	**	3.90	3.00	5	3	17.200	0.00
6	1	65.75	.80	12.2	.80	12.2	0.00	**	.70	3.00	6	1	159.000	0.00
7	2	34.11	1.40	41.0	1.31	38.3	.09	**	1.30	3.00	7	2	20.500	0.00
8	3	49.67	2.60	52.3	2.47	49.7	.13	**	2.50	3.00	8	3	11.800	0.00
9	4	55.55	4.00	72.0	3.78	68.1	.22	**	3.90	3.00	9	4	6.510	0.00
10	1	89.56	.60	6.7	.60	6.7	0.00	**	.50	3.00	10	1	217.000	0.00
11	2	60.69	1.60	26.4	1.60	26.4	0.00	**	1.50	3.00	11	2	36.400	0.00
12	3	48.08	1.90	39.5	1.76	36.6	.14	**	1.80	3.00	12	3	11.500	0.00
13	4	72.85	3.00	41.2	2.85	39.2	.15	**	2.90	3.00	13	4	8.620	0.00
14	5	80.42	4.30	53.5	4.08	50.8	.22	**	4.20	3.00	14	5	5.370	0.00
15	2	68.76	2.20	32.0	2.20	32.0	0.00	**	2.10	3.00	15	2	41.000	0.00
16	3	64.09	2.10	32.8	2.01	31.3	.09	**	2.00	3.00	16	3	15.300	0.00
17	4	52.46	2.30	43.8	2.07	39.4	.23	**	2.20	3.00	17	4	6.250	0.00
18	5	77.73	3.50	45.0	3.27	42.1	.23	**	3.40	3.00	18	5	5.230	0.00
19	6	83.87	4.90	58.4	4.58	54.7	.32	**	4.80	3.00	19	6	3.480	0.00
20	3	81.74	2.70	33.0	2.70	33.0	0.00	**	2.60	3.00	20	3	19.400	0.00
21	4	72.43	2.40	33.1	2.25	31.1	.15	**	2.30	3.00	21	4	8.620	0.00
22	5	56.87	2.60	45.7	2.25	39.6	.35	**	2.50	3.00	22	5	3.860	0.00
23	6	81.24	4.00	49.2	3.67	45.2	.33	**	3.90	3.00	23	6	3.400	0.00
24	4	82.75	2.80	33.8	2.68	32.3	.12	**	2.70	3.00	24	4	9.810	0.00
25	5	70.94	2.50	35.2	2.24	31.6	.26	**	2.40	3.00	25	5	4.820	0.00
26	6	54.79	2.80	51.1	2.23	40.8	.57	**	2.70	3.00	26	6	2.320	0.00

JOB 572 LINE 4E SP1 S 1/2 9/17/70 400 FEET=DIPOLE LENGTH
CAL GROUP NO. 2

CAL CUR	PFE	AC1	AC2	AC FREQ	DC FREQ	PFE CAL	RHO CAL
1.000	-.10	97.800	0.00	3.00	.30	-.1000	1.0225

COMPUTED DATA									FIELD DATA					
POINT NO.	N	RHO	PFE	MCF	CCPFE	CCMCF	CPFE		PFE	CUR	PT.	N	AC1	AC2
1	1	55.12	2.10	38.1	2.10	38.1	0.00	**	2.00	3.00	1	1	132.000	0.00
2	2	66.24	2.50	37.7	2.50	37.7	0.00	**	2.40	3.00	2	2	39.500	0.00
3	1	40.21	3.70	92.0	3.70	92.0	0.00	**	3.60	3.00	3	1	94.800	0.00
4	2	66.70	4.00	60.0	4.00	60.0	0.00	**	3.90	3.00	4	2	39.200	0.00
5	3	71.39	3.90	54.6	3.82	53.5	.08	**	3.80	3.00	5	3	16.800	0.00
6	1	98.67	3.10	31.4	3.10	31.4	0.00	**	3.00	3.00	6	1	234.000	0.00
7	2	61.98	3.80	61.3	3.80	61.3	0.00	**	3.70	3.00	7	2	36.500	0.00
8	3	93.31	3.70	39.7	3.70	39.7	0.00	**	3.60	3.00	8	3	22.000	0.00
9	4	96.52	3.50	36.3	3.40	35.2	.10	**	3.40	3.00	9	4	11.400	0.00
10	1	73.09	3.90	53.4	3.90	53.4	0.00	**	3.80	3.00	10	1	172.000	0.00
11	2	94.86	4.10	43.2	4.10	43.2	0.00	**	4.00	3.00	11	2	55.700	0.00
12	3	85.34	3.30	38.7	3.30	38.7	0.00	**	3.20	3.00	12	3	20.200	0.00
13	4	130.47	2.90	22.2	2.90	22.2	0.00	**	2.80	3.00	13	4	15.500	0.00
14	5	137.20	2.40	17.5	2.30	16.7	.10	**	2.30	3.00	14	5	9.360	0.00
15	2	45.77	4.40	96.1	4.40	96.1	0.00	**	4.30	3.00	15	2	26.800	0.00
16	3	57.48	4.10	71.3	3.99	69.5	.11	**	4.00	3.00	16	3	13.500	0.00
17	4	52.07	3.00	57.6	2.76	53.1	.24	**	2.90	3.00	17	4	6.180	0.00
18	5	76.37	2.80	36.7	2.57	33.6	.23	**	2.70	3.00	18	5	5.190	0.00
19	6	80.05	2.50	31.2	2.16	27.0	.34	**	2.40	3.00	19	6	3.410	0.00
20	3	49.43	5.10	103.2	4.97	100.5	.13	**	5.00	3.00	20	3	11.500	0.00
21	4	62.27	4.00	64.2	3.82	61.3	.18	**	3.90	3.00	21	4	7.320	0.00
22	5	57.50	3.00	52.2	2.65	46.2	.35	**	2.90	3.00	22	5	3.900	0.00
23	6	83.66	2.60	31.1	2.28	27.3	.32	**	2.50	3.00	23	6	3.560	0.00

JOB 572 LINE 4E SP 2 N 1/2 9/17/70 400 FEET=DIPOLE LENGTH
CAL GROUP NO. 2

CAL CUR	PFE	AC1	AC2	AC FREQ	DC FREQ	PFE CAL	RHO CAL
1.000	-.10	97.800	0.00	3.00	.30	-.1000	1.0225

COMPUTED DATA									FIELD DATA					
POINT NO.	N	RHO	PFE	MCF	CCPFE	CCMCF	CPFE		PFE	CUR	PT.	N	AC1	AC2
1	1	68.63	1.70	24.8	1.70	24.8	0.00	**	1.60	3.00	1	1	165.000	0.00
2	2	88.89	2.90	32.6	2.90	32.6	0.00	**	2.80	3.00	2	2	52.800	0.00
3	3	97.92	3.20	32.7	3.20	32.7	0.00	**	3.10	3.00	3	3	23.200	0.00
4	1	83.85	2.00	23.9	2.00	23.9	0.00	**	1.90	3.00	4	1	201.000	0.00
5	2	103.97	2.50	24.0	2.50	24.0	0.00	**	2.40	3.00	5	2	62.000	0.00
6	1	86.59	1.30	15.0	1.30	15.0	0.00	**	1.20	3.00	6	1	209.000	0.00
7	1	86.92	1.20	13.8	1.20	13.8	0.00	**	1.10	3.00	7	1	210.000	0.00
8	2	119.03	1.90	16.0	1.90	16.0	0.00	**	1.80	3.00	8	2	71.400	0.00
9	3	123.79	2.60	21.0	2.60	21.0	0.00	**	2.50	3.00	9	3	29.500	0.00
10	4	106.37	3.20	30.1	3.11	29.3	.09	**	3.10	3.00	10	4	12.600	0.00
11	1	100.99	1.20	11.9	1.20	11.9	0.00	**	1.10	3.00	11	1	244.000	0.00
12	2	98.70	1.40	14.2	1.40	14.2	0.00	**	1.30	3.00	12	2	59.500	0.00
13	3	127.36	2.10	16.5	2.10	16.5	0.00	**	2.00	3.00	13	3	30.500	0.00
14	4	132.02	2.80	21.2	2.80	21.2	0.00	**	2.70	3.00	14	4	15.700	0.00
15	5	109.47	3.20	29.2	3.06	27.9	.14	**	3.10	3.00	15	5	7.410	0.00
16	2	144.04	1.20	8.3	1.20	8.3	0.00	**	1.10	3.00	16	2	87.000	0.00
17	3	147.64	1.40	9.5	1.40	9.5	0.00	**	1.30	3.00	17	3	35.600	0.00
18	4	186.90	2.00	10.7	2.00	10.7	0.00	**	1.90	3.00	18	4	22.400	0.00
19	5	192.59	2.70	14.0	2.70	14.0	0.00	**	2.60	3.00	19	5	13.100	0.00
20	6	156.81	2.80	17.9	2.67	17.0	.13	**	2.70	3.00	20	6	6.660	0.00
21	3	158.53	1.20	7.6	1.20	7.6	0.00	**	1.10	3.00	21	3	38.300	0.00
22	4	163.24	1.30	8.0	1.30	8.0	0.00	**	1.20	3.00	22	4	19.700	0.00
23	5	200.23	2.10	10.5	2.10	10.5	0.00	**	2.00	3.00	23	5	13.700	0.00
24	6	199.59	2.40	12.0	2.31	11.6	.09	**	2.30	3.00	24	6	8.510	0.00
25	4	135.76	1.20	8.8	1.20	8.8	0.00	**	1.10	3.00	25	4	16.400	0.00
26	5	134.86	1.30	9.6	1.20	8.9	.10	**	1.20	3.00	26	5	9.300	0.00
27	6	159.17	1.90	11.9	1.77	11.1	.13	**	1.80	3.00	27	6	6.820	0.00

Job 572, LINE 8E, Sp 1, 5½, 9/16/70

400.

NOTE: STA 2N IS ≈30' N OF FENCE

PAGE 1

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT MINERAL BUTTE
LINE 8E HALF S SP. 1 DATE 9-16-76

SEND	4-5	5-6	4-5	5-6	3-4	4-5	5-6	2-3	3-4	4-5
RECEIVE	CAL	10-14N	6-10N	→	2-6N	→	→	2S-2N	→	→
RANGE	1.0	1.0	10	1.0	10	1.0	1.0	10	1.0	1.0
DC 1	-0.1	1.8	2.8	3.1	1.8	3.3	3.2	2.8	3.3	3.2
DC 2										
DC 3										
DC 4 m	1.0	3	3	3	3	3	3	1	3	3
DC 5 #		1	2	3	4	5	6	7	8	9
DC 6 n		1	1	2	1	2	3	1	2	3
DC 7										
DC 8										
DC AVG.										
AC 1	97.6	95.1	170.	45.8	196.	34.7	14.3	106.	35.4	17.0
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.	3.0	+15.4	-20.2		+28.7			+1.8		
AC NOISE	0.3									
POT RES.		2K	2K		3K			3K		

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Mineral Butte #572
LINE 8E HALF 5 SP. 1 DATE 9-16-70

PAGE 2

SEND	5-6	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5
RECEIVE	2s-2N	2-6s	→	→	→	→	6-10s	→	→	→
RANGE	0.1	1.0	1.0	1.0	0.1	0.1	1.0	1.0	0.1	0.1
DC 1	2.8	2.1	3.6	3.6	3.0	2.8	2.9	4.0	3.7	3.0
DC 2										
DC 3										
DC 4 Cur	3	1	1	3	3	3	2	2	3	3
DC 5 #	10	11	12	13	14	15	16	17	18	19
DC 6 "	4	1	2	3	4	5	2	3	4	5
DC 7										
DC 8										
DC AVG.										
AC 1	9.62	41.7	22.8	14.4	8.57	5.53	14.7	13.2	5.69	3.97
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.		+3.5					-2.0			
AC NOISE										
POT RES.		2 K					1.5 K			

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT MINERAL BUTTE #572

LINE 8E HALF 5 SP. 1 DATE 9-16-76

PAGE 3

SEND	5-6	1-2	2-3	3-4	4-5					
RECEIVE	6-10s	10-14s	→	→	→					
RANGE	0.1	0.1	0.1	0.1	0.1					
DC 1	2.9	3.3	4.2	3.6	3.0					
DC 2										
DC 3										
DC 4 Fm	3	2	2	3	3					
DC 5 #	20	21	22	23	24					
DC 6 n	6	3	4	5	6					
DC 7										
DC 8										
DC AVG.										
AC 1	2.87	7.34	8.45	4.30	3.26					
AC 2	0.0	0.0	0.0	0.0	0.0					
AC AVG.										
S.P.		+16.4								
AC NOISE										
POT RES.		1.5K								

572

PAGE 1

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT MINERAL BUTTE

LINE 86 HALF S SP. 1 DATE 8-16-70

SEND	4-5	5-6	4-5	5-6	3-4	4-5	5-6	2-3	3-4	4-5
RECEIVE	CAL	10-14N	6-10N	→	2-6N	→	→	2-2S	→	→
RANGE	10X100	30X100	30X100	30X100	30X100	30X100	30X100	10X100	30X100	30X100
VOLTAGE	100	440	280	450	310	280	450	220	310	280
CURRENT	1.0	3.0	3.0	3.0	3.0	3.0	3.0	1.0	3.0	3.0
SEND	5-6	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5
RECEIVE	2-2S	2-6S	→	→	→	→	6-10S	→	→	→
RANGE	30X100	10X100	10X100	30X100	30X100	30X100	10X200	10X200	30X100	30X100
VOLTAGE	420	190	220	310	270	450	360	420	300	280
CURRENT	3.0	1.0	1.0	3.0	3.0	3.0	2.0	2.0	3.0	3.0

FREQUENCIES 3 0.3

SENDER NO. 6644 S

OPERATOR PAT McMANUS

RECEIVER NO. 20693-R

OPERATOR BILL FREEMAN

COMMENTS:

572

PAGE 2

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT MINERAL BUTTE

LINE BE HALF 5 SP. 1 DATE 8-16-70

SEND	5-6	1-2	2-3	3-4	4-5					
RECEIVE	6-10S	10-14S	→	→	→					
RANGE	30X100	10X200	10X200	30X100	30X100					
VOLTAGE	440	360	440	300	270					
CURRENT	3.0	2.0	2.0	3.0	3.0					
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES 3 0.3

SENDER NO. 6644S

OPERATOR PAT MC MANUS

RECEIVER NO. 20693-R

OPERATOR BILL FREEMAN

COMMENTS:

Job 572, LINE 8E, Sp 1, N½, 9/16/70 400.

For Cal Card; Duplicate LINE 8E, Sp 1, S½ cal card

111 # 572

PAGE 4

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT MINERAL BUTTE
LINE 8E HALF N SP. 1 DATE 9-16-70

SEND	S.P.	3-4	2-3	1-2	4-5	3-4	2-3	1-2	5-6	4-5
RECEIVE	14-18	18-22	→	→	22-26N	→	→	→	26-30N	→
RANGE		1.0	1.0	0.1	10	1.0	1.0	0.1	10	1.0
DC 1		1.9	3.2	3.2	~~0.9~~ 1.1	2.0	3.3	3.0	0.6	1.5
DC 2										
DC 3										
DC 4 Gain		3	2	2	3	3	2	2	3	3
DC 5 #		1	2	3	4	5	6	7	8	9
DC 6 n		1	2	3	1	2	3	4	1	2
DC 7										
DC 8										
DC AVG.										
AC 1		98.7	32.2	7.07	148.	19.2	10.4	2.85	230.	34.0
AC 2		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.	+9.5	+1.7			+1.3				+12.1	
AC NOISE										
POT RES.	2K	3K			2.5K				1.5K	

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Mineral Butte
LINE ____ HALF N SP. 1 DATE 9-16-70

#572

SEND	3-4	2-3	1-2	5-6	4-5	3-4	2-3	1-2	5-6	4-5
RECEIVE	26-30N	→	→	30-34	→	→	→	→	34-38N	→
RANGE	1.0	0.1	0.1	1.0	1.0	0.1	0.1	0.1	1.0	0.1
DC 1	2.2	3.2	3.3	2.0	2.0	2.5	3.9	3.8	2.7	2.3
DC 2										
DC 3										
DC 4 Cur	3	2	2	3	3	3	2	2	3	3
DC 5 #	10	11	12	13	14	15	16	17	18	19
DC 6 P	3	4	5	2	3	4	5	6	3	4
DC 7										
DC 8										
DC AVG.										
AC 1	11.5	7.90	2.54	43.8	15.2	6.60	5.05	1.75	20.4	8.72
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.				+18.4					+3.4	
AC NOISE										
POT RES.				1.5K					2 K	

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Mineral Butte 572
LINE 8E HALF N SP. 1 DATE 9-16-70

PAGE 6

SEND	3-4	2-3	5-6	4-5	3-4					
RECEIVE	34-38N	→	38-42N	→	→					
RANGE	0.1	0.1	1.0	0.1	0.1					
DC 1	2.9	4.1	2.7	2.5	3.4					
DC 2										
DC 3										
DC 4 Cur	3	2	3	3	3					
DC 5 #	20	21	22	23	24					
DC 6 n	5	6	4	5	6					
DC 7										
DC 8										
DC AVG.										
AC 1	4.25	3.34	10.4	4.92	2.58					
AC 2	0.0	0.0	0.0	0.0	0.0					
AC AVG.										
S.P.			-10.2							
AC NOISE										
POT RES.			3.5K							

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT MINERAL BUTTE 572

LINE 8E HALF N SP. 1 DATE 9-16-74

SEND	3-4	2-3	1-2	4-5	3-4	2-3	1-2	5-6	4-5	3-4
RECEIVE	18-22N	→	→	22-26N	→	→	→	26-30N	→	→
RANGE	30X100	10X200	10X200	30X100	30X100	10X200	10X200	30X100	30X100	30X100
VOLTAGE	300	440	360	270	300	440	360	440	270	300
CURRENT	3.0	2.0	2.0	3.0	3.0	2.0	2.0	3.0	3.0	3.0
SEND	2-3	1-2	5-6	4-5	3-4	2-3	1-2	5-6	4-5	3-4
RECEIVE	26-30N	→	30-34N	→	→	→	→	34-38N	→	→
RANGE	10X200	10X200	30X100	30X100	30X100	10X200	10X200	10X300	10X300	30X100
VOLTAGE	440	360	440	270	300	440	360	440	270	300
CURRENT	2.0	2.0	3.0	3.0	3.0	2.0	2.0	3.0	3.0	3.0

FREQUENCIES 3 0.3

SENDER NO. 66445

OPERATOR PAT MCMANUS

RECEIVER NO. 20693-R

OPERATOR BILL FREEMAN

COMMENTS:

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT MINERAL BUTTE
LINE 8E HALF N SP. 1 DATE 9-16-7

SEND	2-3	5-6	4-5	3-4						
RECEIVE	34-38N	38-42	→	→						
RANGE	10X200	10X300	10X300	10X300						
VOLTAGE	440	440	270	300						
CURRENT	2.0	3.0	3.0	3.0						
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES 3 0.3
SENDER NO. 66475
OPERATOR PAT MCMANUS
RECEIVER NO. 20693-R
OPERATOR BILL FREEMAN

COMMENTS:

Job 572, LINE 8E, Sp 2, N½, 9/16/70 400.

For Cal Card Duplicate LINE 8E, Sp 1, S½ Cal Card

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Mineral Butte #512
LINE 8E HALF N SP. 2 DATE 9-16-70

PAGE 7

SEND	3-4	4-5	5-6	4-5	5-6	5-6	4-5	3-4	2-3	1-2
RECEIVE	22-26N	→	→	26-30	→	30-34	42-46	→	→	→
RANGE	10	1.0	1.0	10	1.0	10	10	1.0	1.0	1.0
DC 1	1.4	2.7	2.9	1.7	2.6	1.3	1.2	2.0	2.8	3.3
DC 2										
DC 3										
DC 4 Cur	3	3	3	3	3	3	3	3	3	3
DC 5 #	1	2	3	4	5	6	7	8	9	10
DC 6 n	1	2	3	1	2	1	1	2	3	4
DC 7										
DC 8										
DC AVG.										
AC 1	159.	42.9	18.1	185.	55.3	188.	190.	63.9	27.3	10.2
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.							+12.4			
AC NOISE										
POT RES.							2.5K			

BEARING: Due North #522

PAGE 8

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT MINERAL BUTTE
LINE 8E HALF N SP. 2 DATE 9-16-70

SEND	5-6	4-5	3-4	2-3	1-2	5-6	4-5	3-4	2-3	1-2
RECEIVE	46-50	→	→	→	→	50-54	→	→	→	→
RANGE	1.0	1.0	1.0	1.0	0.1	1.0	1.0	1.0	0.1	0.1
DC 1	1.0	1.5	2.1	2.9	3.1	1.2	1.5	2.1	2.7	3.0
DC 2										
DC 3										
DC 4 Sum	3	3	3	3	3	3	3	3	3	3
DC 5 #	11	12	13	14	15	16	17	18	19	20
DC 6 M	1	2	3	4	5	2	3	4	5	6
DC 7										
DC 8										
DC AVG.										
AC 1	143.	46.3	22.2	11.5	4.64	60.4	29.7	17.1	9.89	4.30
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.	+13.0				+21.5	→				
AC NOISE										
POT RES.	3K				2.5K	→				

#572

PAGE 9

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT MINERAL BUTTE
LINE 8E HALF N SP. 2 DATE 9-16-70

SEND	5-6	4-5	3-4	2-3	5-6	4-5	3-4			
RECEIVE	54-58	→	→	→	58-62	→	→			
RANGE	1.0	1.0	1.0	0.1	1.0	1.0	0.1			
DC 1	1.1	1.5	1.9	2.5	1.0	1.5	2.1			
DC 2										
DC 3										
DC 4 Cm	3	3	3	3	3	3	3			
DC 5 "	21	22	23	24	25	26	27			
DC 6 "	3	4	5	6	4	5	6			
DC 7										
DC 8										
DC AVG.										
AC 1	39.4	23.8	15.2	9.51	15.5	10.4	7.06			
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
AC AVG.										
S.P.	−19.4				−2.1					
AC NOISE										
POT RES.	1.2 K				1 K					

572

PAGE 5

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT MINERAL BUTTE

LINE 8E HALF N SP. 2 DATE 9-16-2

SEND	3-4	4-5	5-6	4-5	5-6	5-6	4-5	3-4	2-3	1-2
RECEIVE	22-26	→	→	26-30	→	30-34	42-46	→	→	→
RANGE	30X100	30X100	30X100	30X100	30X100	30X100	30X100	30X100	30X100	30X100
VOLTAGE	200	240	280	240	280	280	250	200	360	460
CURRENT	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
SEND	5-6	4-5	3-4	2-3	1-2	5-6	4-5	3-4	2-3	1-2
RECEIVE	46-50	N →	→	→	→	50-54	N →	→	→	→
RANGE	30X100	30X100	30X100	30X100	30X100	30X100	30X100	30X100	30X100	30X100
VOLTAGE	280	240	190	360	460	280	240	200	360	460
CURRENT	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0

FREQUENCIES 3 0.3

SENDER NO. 66445

OPERATOR PAT McMANUS

RECEIVER NO. 20693-R

OPERATOR BILL FREEMAN

COMMENTS:

572

PAGE 6

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Mineral Butte

LINE 8E HALF N SP. 2 DATE 9-16-2

SEND	5-6	4-5	3-4	2-3	5-6	4-5	3-4			
RECEIVE	54-58	"	→	→	58-62	"	→			
RANGE	30X100	30X100	30X100	30X100	30X100	30X100	30X100			
VOLTAGE	280	240	200	360	280	240	200			
CURRENT	3.0	3.0	3.0	3.0	3.0	3.0	3.0			
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES 3 0.3

SENDER NO. 66445

OPERATOR PAT McMANUS

RECEIVER NO. 20693-R

OPERATOR BILL FREEMAN

COMMENTS:

JOB 572 LINE 8E SP 1 S 1/2 9/16/70 400 FEET=DIPOLE LENGTH
CAL GROUP NO. 1

CAL CUR	PFE	AC1	AC2	AC FREQ	DC FREQ	PFE CAL	RHO CAL
1.000	-.10	97.600	0.00	3.00	.30	-.1000	1.0246

COMPUTED DATA									FIELD DATA					
POINT NO.	N	RHO	PFE	MCF	CCPFE	CCMCF	CPFE		PFE	CUR	PT.	N	AC1	AC2
1	1	39.72	1.90	47.8	1.90	47.8	0.00	**	1.80	3.00	1	1	95.100	0.00
2	1	71.69	2.90	40.5	2.90	40.5	0.00	**	2.80	3.00	2	1	170.000	0.00
3	2	77.48	3.20	41.3	3.20	41.3	0.00	**	3.10	3.00	3	2	45.800	0.00
4	1	81.85	1.90	23.2	1.90	23.2	0.00	**	1.80	3.00	4	1	196.000	0.00
5	2	58.82	3.40	57.8	3.40	57.8	0.00	**	3.30	3.00	5	2	34.700	0.00
6	3	60.54	3.30	54.5	3.20	52.9	.10	**	3.20	3.00	6	3	14.300	0.00
7	1	134.11	2.90	21.6	2.90	21.6	0.00	**	2.80	1.00	7	1	106.000	0.00
8	2	60.01	3.40	56.7	3.40	56.7	0.00	**	3.30	3.00	8	2	35.400	0.00
9	3	71.97	3.30	45.9	3.22	44.8	.08	**	3.20	3.00	9	3	17.000	0.00
10	4	81.14	2.90	35.7	2.77	34.2	.13	**	2.80	3.00	10	4	9.620	0.00
11	1	52.40	2.20	42.0	2.20	42.0	0.00	**	2.10	1.00	11	1	41.700	0.00
12	2	116.28	3.70	31.8	3.70	31.8	0.00	**	3.60	1.00	12	2	22.800	0.00
13	3	61.20	3.70	60.5	3.60	58.9	.10	**	3.60	3.00	13	3	14.400	0.00
14	4	72.42	3.10	42.8	2.95	40.7	.15	**	3.00	3.00	14	4	8.570	0.00
15	5	81.62	2.90	35.5	2.69	32.9	.21	**	2.80	3.00	15	5	5.530	0.00
16	2	37.23	3.00	80.6	2.92	78.3	.08	**	2.90	2.00	16	2	14.700	0.00
17	3	84.47	4.10	48.5	4.10	48.5	0.00	**	4.00	2.00	17	3	13.200	0.00
18	4	48.41	3.80	78.5	3.54	73.1	.26	**	3.70	3.00	18	4	5.690	0.00
19	5	58.71	3.10	52.8	2.76	47.1	.34	**	3.00	3.00	19	5	3.970	0.00
20	6	67.84	3.00	44.2	2.58	38.0	.42	**	2.90	3.00	20	6	2.870	0.00
21	3	46.66	3.40	72.9	3.26	69.8	.14	**	3.30	2.00	21	3	7.340	0.00
22	4	108.36	4.30	39.7	4.22	38.9	.08	**	4.20	2.00	22	4	8.450	0.00
23	5	63.96	3.70	57.8	3.40	53.2	.30	**	3.60	3.00	23	5	4.300	0.00
24	6	77.14	3.10	40.2	2.75	35.6	.35	**	3.00	3.00	24	6	3.260	0.00

JOB 572 LINE 8E SP 1 N 1/2 9/16/70 400 FEET=DIPOLE LENGTH
CAL GROUP NO. 1

CAL CUR	PFE	AC1	AC2	AC FREQ	DC FREQ	PFE CAL	RHO CAL
1.000	-.10	97.600	0.00	3.00	.30	-.1000	1.0246

COMPUTED DATA									FIELD DATA					
POINT NO.	N	RHO	PFE	MCF	CCPFE	CCMCF	CPFE		PFE	CUR	PT.	N	AC1	AC2
1	1	41.26	2.00	48.5	2.00	48.5	0.00	**	1.90	3.00	1	1	98.700	0.00
2	2	81.79	3.30	40.3	3.30	40.3	0.00	**	3.20	2.00	2	2	32.200	0.00
3	3	44.90	3.30	73.5	3.15	70.1	.15	**	3.20	2.00	3	3	7.070	0.00
4	1	61.38	1.20	19.5	1.20	19.5	0.00	**	1.10	3.00	4	1	148.000	0.00
5	2	32.14	2.10	65.3	2.00	62.1	.10	**	2.00	3.00	5	2	19.200	0.00
6	3	66.11	3.40	51.4	3.31	50.1	.09	**	3.30	2.00	6	3	10.400	0.00
7	4	36.13	3.10	85.8	2.71	75.0	.39	**	3.00	2.00	7	4	2.850	0.00
8	1	94.92	.70	7.4	.70	7.4	0.00	**	.60	3.00	8	1	230.000	0.00
9	2	56.63	1.60	28.3	1.60	28.3	0.00	**	1.50	3.00	9	2	34.000	0.00
10	3	48.22	2.30	47.7	2.16	44.8	.14	**	2.20	3.00	10	3	11.500	0.00
11	4	100.34	3.30	32.9	3.21	32.0	.09	**	3.20	2.00	11	4	7.900	0.00
12	5	56.51	3.40	60.2	3.05	53.9	.35	**	3.30	2.00	12	5	2.540	0.00
13	2	73.31	2.10	28.6	2.10	28.6	0.00	**	2.00	3.00	13	2	43.800	0.00
14	3	63.60	2.10	33.0	2.01	31.6	.09	**	2.00	3.00	14	3	15.200	0.00
15	4	55.50	2.60	46.8	2.38	42.9	.22	**	2.50	3.00	15	4	6.600	0.00
16	5	113.00	4.00	35.4	3.87	34.2	.13	**	3.90	2.00	16	5	5.050	0.00
17	6	62.60	3.90	62.3	3.43	54.8	.47	**	3.80	2.00	17	6	1.750	0.00
18	3	85.95	2.80	32.6	2.80	32.6	0.00	**	2.70	3.00	18	3	20.400	0.00
19	4	73.19	2.40	32.8	2.25	30.8	.15	**	2.30	3.00	19	4	8.720	0.00
19	4	73.19	2.40	32.8	2.25	30.8	.15	**	2.30	3.00	19	4	8.720	0.00
20	5	62.79	3.00	47.8	2.69	42.9	.31	**	2.90	3.00	20	5	4.250	0.00
21	6	119.81	4.20	35.1	4.01	33.4	.19	**	4.10	2.00	21	6	3.340	0.00
22	4	87.63	2.80	32.0	2.69	30.7	.11	**	2.70	3.00	22	4	10.400	0.00
23	5	72.41	2.60	35.9	2.35	32.4	.25	**	2.50	3.00	23	5	4.920	0.00
24	6	61.29	3.50	57.1	3.01	49.2	.49	**	3.40	3.00	24	6	2.580	0.00

JOB 572 LINE 8E SP2 N1/2 9/16/70 400 FEET=DIPOLE LENGTH
CAL GROUP NO. 1

CAL CUR	PFE	AC1	AC2	AC FREQ	DC FREQ	PFE CAL	RHO CAL
1.000	-.10	97.600	0.00	3.00	.30	-.1000	1.0246

COMPUTED DATA									FIELD DATA					
POINT NO.	N	RHO	PFE	MCF	CCPFE	CCMCF	CPFE		PFE	CUR	PT.	N	AC1	AC2
1	1	66.14	1.50	22.7	1.50	22.7	0.00	**	1.40	3.00	1	1	159.000	0.00
2	2	72.30	2.80	38.7	2.80	38.7	0.00	**	2.70	3.00	2	2	42.900	0.00
3	3	76.41	3.00	39.3	3.00	39.3	0.00	**	2.90	3.00	3	3	18.100	0.00
4	1	77.18	1.80	23.3	1.80	23.3	0.00	**	1.70	3.00	4	1	185.000	0.00
5	2	93.10	2.70	29.0	2.70	29.0	0.00	**	2.60	3.00	5	2	55.300	0.00
6	1	78.13	1.40	17.9	1.40	17.9	0.00	**	1.30	3.00	6	1	188.000	0.00
7	1	78.88	1.30	16.5	1.30	16.5	0.00	**	1.20	3.00	7	1	190.000	0.00
8	2	106.95	2.10	19.6	2.10	19.6	0.00	**	2.00	3.00	8	2	63.900	0.00
9	3	115.13	2.90	25.2	2.90	25.2	0.00	**	2.80	3.00	9	3	27.300	0.00
10	4	86.45	3.40	39.3	3.28	38.0	.12	**	3.30	3.00	10	4	10.200	0.00
11	1	59.25	1.10	18.6	1.10	18.6	0.00	**	1.00	3.00	11	1	143.000	0.00
12	2	77.12	1.60	20.7	1.60	20.7	0.00	**	1.50	3.00	12	2	46.300	0.00
13	3	92.99	2.20	23.7	2.20	23.7	0.00	**	2.10	3.00	13	3	22.200	0.00
14	4	97.09	3.00	30.9	2.90	29.9	.10	**	2.90	3.00	14	4	11.500	0.00
15	5	68.69	3.20	46.6	2.93	42.7	.27	**	3.10	3.00	15	5	4.640	0.00
16	2	100.30	1.30	13.0	1.30	13.0	0.00	**	1.20	3.00	16	2	60.400	0.00
17	3	123.67	1.60	12.9	1.60	12.9	0.00	**	1.50	3.00	17	3	29.700	0.00
18	4	143.25	2.20	15.4	2.20	15.4	0.00	**	2.10	3.00	18	4	17.100	0.00
19	5	145.84	2.80	19.2	2.71	18.6	.09	**	2.70	3.00	19	5	9.890	0.00
20	6	101.75	3.10	30.5	2.86	28.1	.24	**	3.00	3.00	20	6	4.300	0.00
21	3	163.41	1.20	7.3	1.20	7.3	0.00	**	1.10	3.00	21	3	39.400	0.00
22	4	198.20	1.60	8.1	1.60	8.1	0.00	**	1.50	3.00	22	4	23.800	0.00
23	5	222.39	2.00	9.0	2.00	9.0	0.00	**	1.90	3.00	23	5	15.200	0.00
24	6	223.94	2.60	11.6	2.52	11.3	.08	**	2.50	3.00	24	6	9.510	0.00
25	4	128.45	1.10	8.6	1.10	8.6	0.00	**	1.00	3.00	25	4	15.500	0.00
26	5	151.57	1.60	10.6	1.51	10.0	.09	**	1.50	3.00	26	5	10.400	0.00
27	6	165.60	2.20	13.3	2.08	12.5	.12	**	2.10	3.00	27	6	7.060	0.00

Sol 572, LINE 28E, Sp 1, N½, 9/8/70 400.

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PAGE 1

PROJECT MINERAL BUTTE
LINE 28E HALF N SP. 1 DATE 9-8-70

SEND	2-3	1-2	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3
RECEIVE	~~[illegible]~~	10-14N	14-18N	→	18-22N	→	→	22-26N	→	→
RANGE	CAL	10.0	1.0	1.0	10.0	1.0	1.0	10.0	1.0	1.0
DC 1	1.0 Range	2.8	3.9	4.8	2.4	4.9	4.4	0.6	2.5	4.9
DC 2	0.0									
DC 3										
DC 4 Pm	1.0	3	3	3	6	~~6.0~~	6.0	6.0	6.0	6.0
DC 5 #		1	2	3	4	5	6	7	8	9
DC 6 n		1	1	2	1	2	3	1	2	3
DC 7										
DC 8										
DC AVG.										
AC 1	98.0	141.	79.9	16.8	147.	38.1	15.5	275.	55.4	23.3
AC 2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.	3.0	+38.2	+11.9		+6.3			+11.9		
AC NOISE	0.3									
POT RES.		1K	0.5K		1K			1.5K		

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT MINERAL BUTTE

LINE 28E HALF N SP. 1 DATE 9-8-2

PAGE 2

SEND	1-2	5-6	4-5	3-4	2-3	1-2	5-6	4-5	3-4	2-3
RECEIVE	22-26N	26-30N	→	→	→	→	30-34N	→	→	→
RANGE	1.0	10.0	1.0	1.0	1.0	0.1	1.0	1.0	1.0	0.1
DC 1	4.5	0.4	0.7	2.8	4.9	3.8	0.7	1.2	3.6	5.2
DC 2										
DC 3 Cur	6	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
DC 4 #	10	11	12	13	14	15	16	17	18	19
DC 5 #	4	1	2	3	4	5	2	3	4	5
DC 6										
DC 7										
DC 8										
DC AVG.										
AC 1	11.9	243.	89.7	28.0	14.1	8.23	58.5	29.6	11.0	6.18
AC 2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
AC AVG.										
S.P.		+2.5					+13.8			
AC NOISE										
POT RES.		2K					1.7K			

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT Mineral Butte

LINE 28E HALF N SP. 1 DATE 9/9/70

PAGE 4a

SEND	2-3	1-2	5-6	4-5	3-4	2-3				
RECEIVE	26-30N	→	30-34N	→	→	→				
RANGE	0.1	0.1	1.0	1.0	0.1	0.1				
DC 1	5.1	4.1	2.1	2.6	4.5	6.1				
DC 2										
DC 3 Pen	6	6.0	6.	6.	6.	6.				
DC 4 #	19	20	21	22	23	24				
DC 5 n	5	6	3	4	5	6				
DC 6										
DC 7										
DC 8										
DC AVG.										
AC 1	6.32	4.03	20.9	13.0	5.46	3.58				
AC 2	0.0	0.0	0.1	0.0	0.0	0.0				
AC AVG.										
S.P.	3.4+		-1.6							
AC NOISE										
POT RES.	3K		1.8K							

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT MINERAL BUTTE

LINE 28E HALF N SP. 1 DATE 9-8-70

SEND	2-3	1-2	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3
RECEIVE	CAL	10-14N	14-18N	→	18-22N	→	→	22-26N	→	→
RANGE	10X100	30X100	30X100	30X100	30X200	30X200	30X200	30X200	30X200	30X200
VOLTAGE	80	180	210	180	430	430	340	300	430	430
CURRENT	1.0	3.0	3.0	3.0	6.0	6.0	6.0	6.0	6.0	6.0
SEND	1-2	5-6	4-5	3-4	2-3	1-2	5-6	4-5	3-4	2-3
RECEIVE	22-26N	26-30N	→	→	→	→	30-34N	→	→	→
RANGE	30X200	30X200	30X200	30X200	30X200	30X200	30X200	30X200	30X200	30X200
VOLTAGE	340	280	300	420	430	340	280	300	430	420
CURRENT	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0

FREQUENCIES 3 0.3

SENDER NO. 6644 S

OPERATOR BILL FREEMAN

RECEIVER NO. 20693-R

OPERATOR STEVE CRUZE

COMMENTS:

NEW AREA ; Need switchbox for sender

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PAGE 1

PROJECT MINERAC BUTTE

LINE 28E HALF N SP. 1 DATE 9-9-70

SEND	2-3	1-2	5-6	4-5	3-4	2-3				
RECEIVE	30-34	30-34	34-38	→	→	→				
RANGE	30X200	30X200	30X200	30X200	30X200	30X200				
VOLTAGE	360	340	280	290	370	360				
CURRENT	6.0	6.0	6.0	6.0	6.0	6.0				
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES _____ _____

SENDER NO.

OPERATOR

RECEIVER NO.

OPERATOR

COMMENTS:

Job 572, LINE 28E, Sp 1, S½, 9/9/70 400.

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Mineral Butte
LINE 28E HALF 5 SP. 1 DATE 9.9.70

SEND	3-4	4-5	5-6	1-2	S.P.		2-3	3-4	4-5	5-6
RECEIVE	2-6N	→	→	CAL	6-10N		2&2N	→	→	→
RANGE	10	1.0	1.0	10			10	1.0	1.0	1.0
DC 1	2.3	4.9	4.5	-0.1			3.9	5.5	4.0	3.4
DC 2										
DC 3 Pen	6	→	→	6.0			6	→	→	→
DC 4 #	1	2	3				4	5	6	7
DC 5 n	1	2	3				1	2	3	4
DC 6										
DC 7										
DC 8										
DC AVG.										
AC 1	309.	32.0	13.8	587			327.	53.2	27.9	15.3
AC 2	0.0	0.0	0.0	2.0			0.0	0.0	0.0	0.0
AC AVG.										
S.P.	+11.2			3.0	33.5		+1.7			
AC NOISE				0.3						
POT RES.	1.5K				1.5K		1.5K			

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT MINERAL BUTTE

LINE 28E HALF S SP. 1 DATE 9-9-70

SEND	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5	5-6
RECEIVE	2s-6s	→				6-10s	→			
RANGE	10	1.0	1.0	1.0	0.1	10.0	1.0	0.1	0.1	0.1
DC 1	1.5	5.0	5.4	3.8	2.9	1.9	5.2	4.9	3.1	2.5
DC 2										
DC 3 Bar	6	→	6.		6.		6.		6.	→
DC 4 #	8	9	10	11	12	13	14	15	16	17
DC 5 n	1	2	3	4	5	2	3	4	5	6
DC 6										
DC 7										
DC 8										
DC AVG.										
AC 1	712.	80.1	20.0	13.0	7.62	144.	27.4	94.7	7.32	4.71
AC 2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.	+4.5					+13.7				
AC NOISE										
POT RES.	2K					1.2K				

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT MINERAL BUTTE
LINE 28E HALF 5 SP. 1 DATE 9-9-70

PAGE 1

SEND	1-2	2-3	3-4	4-5						
RECEIVE	10-45	→	→	→						
RANGE	1.0	1.0	0.1	0.1						
DC 1	2.4	5.5	5.2	3.1						
DC 2										
DC 3 Gun	6	→ 6	→ 6	→ 6						
DC 4 #	18	19	20	21						
DC 5 "	3	4	5	6						
DC 6										
DC 7										
DC 8										
DC AVG.										
AC 1	57.1	13.8	5.76	5.06						
AC 2	0.0	0.0	0.0	0.0						
AC AVG.										
S.P.	+6.4									
AC NOISE										
POT RES.	1.5K									

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT MINERAL BUTTE

LINE 28E HALF S SP. ____ DATE ____

SEND	3-4	4-5	5-6	2-3	3-4	4-5	5-6	1-2	2-3	3-4
RECEIVE	2-6N	→	→	2S-2N	→	→	→	2S-6S	→	→
RANGE	30X200	30X200	30X200	30X200	30X200	30X200	30X200	30X200	30X200	30X200
VOLTAGE	370	300	270	370	370	290	270	340	370	380
CURRENT	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
SEND	4-5	5-6	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4
RECEIVE	2-6S	→	6-10S	→	→	→	→	10-14S	→	→
RANGE	30X200	30X200	30X200	30X200	30X200	30X200	30X200	30X200	30X200	30X200
VOLTAGE	300	280	340	370	370	300	280	340	370	370
CURRENT	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0

FREQUENCIES 3 0.3

SENDER NO. 6644-S

OPERATOR B. FREEMAN

RECEIVER NO. 20693-R

OPERATOR S. CRUZE

COMMENTS: TEACHING GLEN ROGER & PAT McMANUS THE OPERATION OF THE SENDER

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Mineral Butte

LINE 28E HALF 5 SP. / DATE 9-9-2

PAGE 3

SEND	4-5		Cal							
RECEIVE	10-14S		1-7							
RANGE	30X200		30X200							
VOLTAGE	300		340							
CURRENT	6.0		6.0							
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES _____ _____

SENDER NO.

OPERATOR

RECEIVER NO.

OPERATOR

COMMENTS:

JOB 572 LINE 28E SP1 N1/2 9/8/70 400 FEET=DIPOLE LENGTH
CAL GROUP NO. 1

CAL CUR	PFE	AC1	AC2	AC FREQ	DC FREQ	PFE CAL	RHO CAL
1.000	0.00	98.000	0.00	3.00	.30	0.0000	1.0204

COMPUTED DATA									FIELD DATA					
POINT NO.	N	RHO	PFE	MCF	CCPFE	CCMCF	CPFE		PFE	CUR	PT.	N	AC1	AC2
1	1	59.16	2.75	46.5	2.75	46.5	0.00	**	2.80	3.00	1	1	141.000	.10
2	1	33.88	3.90	115.1	3.90	115.1	0.00	**	3.90	3.00	2	1	79.900	0.00
3	2	28.75	4.80	167.0	4.68	162.8	.12	**	4.80	3.00	3	2	16.800	0.00
4	1	30.72	2.40	78.1	2.40	78.1	0.00	**	2.40	6.00	4	1	147.000	0.00
5	2	32.63	4.90	150.2	4.80	147.1	.10	**	4.90	6.00	5	2	38.100	0.00
6	3	33.02	4.40	133.2	4.17	126.2	.23	**	4.40	6.00	6	3	15.500	0.00
7	1	56.46	.60	10.6	.60	10.6	0.00	**	.60	6.00	7	1	275.000	0.00
8	2	46.36	2.50	53.9	2.50	53.9	0.00	**	2.50	6.00	8	2	55.400	0.00
9	3	49.88	4.90	98.2	4.77	95.6	.13	**	4.90	6.00	9	3	23.300	0.00
10	4	50.76	4.45	87.7	4.21	82.8	.24	**	4.50	6.00	10	4	11.900	.10
11	1	49.79	.40	8.0	.40	8.0	0.00	**	.40	6.00	11	1	243.000	0.00
12	2	73.74	.70	9.5	.70	9.5	0.00	**	.70	6.00	12	2	89.700	0.00
13	3	58.74	2.80	47.7	2.70	45.9	.10	**	2.80	6.00	13	3	28.000	0.00
14	4	60.37	4.90	81.2	4.71	78.0	.19	**	4.90	6.00	14	4	14.100	0.00
15	5	61.02	3.80	62.3	3.48	57.1	.32	**	3.80	6.00	15	5	8.230	0.00
16	2	48.09	.70	14.6	.70	14.6	0.00	**	.70	6.00	16	2	58.500	0.00
17	3	61.13	1.20	19.6	1.10	18.0	.10	**	1.20	6.00	17	3	29.600	0.00
18	4	46.52	3.55	76.3	3.27	70.4	.28	**	3.60	6.00	18	4	11.000	.10
19	5	46.44	5.20	112.0	4.74	102.0	.46	**	5.20	6.00	19	5	6.180	0.00
		46.9	5.2	111										
19	5	47.45	5.10	107.5	4.65	98.0	.45	**	5.10	6.00	19	5	6.320	0.00
20	6	47.95	4.10	85.5	3.42	71.4	.68	**	4.10	6.00	20	6	4.030	0.00
21	3	43.55	2.05	47.1	1.89	43.4	.16	**	2.10	6.00	21	3	20.900	.10
22	4	54.44	2.60	47.8	2.38	43.7	.22	**	2.60	6.00	22	4	13.000	0.00
23	5	40.75	4.50	110.4	3.95	96.9	.55	**	4.50	6.00	23	5	5.460	0.00
24	6	43.41	6.10	140.5	5.33	122.7	.77	**	6.10	6.00	24	6	3.580	0.00

110
469 | 52000
510
469
41

JOB 572 LINE 28E SP1 S1/2 9/9/70 400 FEET=DIPOLE LENGTH
CAL GROUP NO. 2

CAL CUR	PFE	AC1	AC2	AC FREQ	DC FREQ	PFE CAL	RHO CAL
6.000	-.10	587.000	0.00	3.00	.30	-.1000	1.0221

COMPUTED DATA									FIELD DATA					
POINT NO.	N	RHO	PFE	MCF	CCPFE	CCMCF	CPFE		PFE	CUR	PT.	N	AC1	AC2
4	1	69.52	4.00	57.5	4.00	57.5	0.00	**	3.90	6.00	4	1	327.000	0.00
5	2	45.94	5.60	121.9	5.60	121.9	0.00	**	5.50	6.00	5	2	53.200	0.00
6	3	59.37	4.10	69.1	4.00	67.3	.10	**	4.00	6.00	6	3	27.900	0.00
7	4	64.74	3.50	54.1	3.33	51.4	.17	**	3.40	6.00	7	4	15.300	0.00
8	1	147.88	1.55	10.5	1.55	10.5	0.00	**	1.50	6.00	8	1	712.000	.10
9	2	68.84	5.10	74.1	5.10	74.1	0.00	**	5.00	6.00	9	2	80.100	0.00
10	3	43.13	5.50	127.5	5.34	123.8	.16	**	5.40	6.00	10	3	20.000	0.00
11	4	55.22	3.90	70.6	3.68	66.7	.22	**	3.80	6.00	11	4	13.000	0.00
12	5	56.16	3.00	53.4	2.64	47.1	.36	**	2.90	6.00	12	5	7.620	0.00
13	2	120.11	2.00	16.7	2.00	16.7	0.00	**	1.90	6.00	13	2	144.000	0.00
14	3	58.98	5.30	89.9	5.20	88.1	.10	**	5.20	6.00	14	3	27.400	0.00
15	4	406.55	5.00	12.3	5.00	12.3	0.00	**	4.90	6.00	15	4	94.700	0.00
16	5	54.05	3.20	59.2	2.82	52.3	.38	**	3.10	6.00	16	5	7.320	0.00
17	6	55.32	2.60	47.0	2.04	36.9	.56	**	2.50	6.00	17	6	4.710	0.00
18	3	119.65	2.50	20.9	2.50	20.9	0.00	**	2.40	6.00	18	3	57.100	0.00
19	4	59.58	5.60	94.0	5.40	90.7	.20	**	5.50	6.00	19	4	13.800	0.00
20	5	43.40	5.30	122.1	4.79	110.4	.51	**	5.20	6.00	20	5	5.760	0.00
21	6	59.78	3.20	53.5	2.70	45.1	.50	**	3.10	6.00	21	6	5.060	0.00
1	1	64.68	2.40	37.1	2.40	37.1	0.00	**	2.30	6.00	1	1	309.000	0.00
2	2	27.48	5.00	182.0	4.87	177.3	.13	**	4.90	6.00	2	2	32.000	0.00
3	3	29.51	4.60	155.9	4.33	146.6	.27	**	4.50	6.00	3	3	13.800	0.00

Jof 572, LINE 24E, Sp 1, S½, 9/9/70 400.

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT MINERAL BUTTE
LINE 24E HALF 5 SP. 1 DATE 9-9-70

PAGE 1

SEND	3-4	4-5	5-6	3-4	4-5	5-6	2-3	3-4	4-5	5-6
RECEIVE	CAD	6-10N	→	2-6N	→	→	2S-2N	→	→	→
RANGE	1.0	10.0	1.0	10.0	1.0	1.0	10.0	1.0	1.0	1.0
DC 1	0.0	4.0	4.7	4.5	5.0	4.3	4.0	5.1	4.3	3.5
DC 2										
DC 3 Gain	1.0	6	6.	6.	6.	6.	6.	6.	6.	6.
DC 4 #		1	2	3	4	5	6	7	8	9
DC 5 n		1	2	1	2	3	1	2	3	4
DC 6										
DC 7										
DC 8										
DC AVG.										
AC 1	97.5	214.	33.8	200.	63.0	21.5	323.	48.7	34.0	16.1
AC 2	0.0	0.1	0.1	0.0	0.0	0.0	0.2	0.0	0.0	0.0
AC AVG.										
S.P.	3.0	-42.3		+28.2			+33.2			
AC NOISE	0.3									
POT RES.		1.5K		1K			1.5K			

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT MINERAL BUTTE
LINE 24E HALF S SP. 1 DATE 9-9-70

PAGE 2

SEND	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5	5-6
RECEIVE	2-6s	→	→	→	→	6-10s	→	→	→	→
RANGE	10.0	1.0	1.0	1.0	0.1	10.0	1.0	1.0	1.0	0.1
DC 1	1.2	5.0	5.6	4.1	2.7	1.6	5.5	5.6	4.3	2.7
DC 2										
DC 3 Gain	6	6	6	6	6	6	6	6	6	6
DC 4 #	10	11	12	13	14	15	16	17	18	19
DC 5 n	1	2	3	4	5	2	3	4	5	6
DC 6										
DC 7										
DC 8										
DC AVG.										
AC 1	991.	81.8	18.0	17.1	8.92	255.	34.6	10.6	10.9	6.25
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2
AC AVG.										
S.P.	-8.8					+7.4				
AC NOISE										
POT RES.	1.3K					1.0K				

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT MINERAL BUTTE
LINE 24E HALF S SP. 1 DATE 9-9-20

PAGE 3

SEND	1-2	2-3	3-4	4-5						
RECEIVE	10-14	5								
RANGE	1.0	1.0	0.1	0.1						
DC 1	2.1	6.0	4.6	3.4						
DC 2										
DC 3	6	6	6	6						
DC 4	20	21	22	23						
DC 5	3	4	5	6						
DC 6										
DC 7										
DC 8										
DC AVG.										
AC 1	83.3	14.7	5.39	5.99						
AC 2	0.0	0.0	0.0	0.0						
AC AVG.										
S.P.	+8.2									
AC NOISE										
POT RES.	1K									

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT MINERAL BUTTE

LINE 24E HALF S SP. 1 DATE 8-9-20

PAGE 1

SEND	3-4	4-5	5-6	3-4	4-5	5-6	2-3	3-4	4-5	5-6
RECEIVE	CAL	6-10N	→	2-6N	→	→	2N-2S	→	→	→
RANGE	10X100	30X200	30X200	30X200	30X200	30X200	30X200	30X200	30X200	30X200
VOLTAGE	100	380	400	450	370	400	440	460	370	400
CURRENT	1.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
SEND	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5	5-6
RECEIVE	2-6S	→	→	→	→	6-10S	→	→	→	→
RANGE	30X200	30X200	30X200	30X200	30X200	30X200	30X200	30X200	30X200	30X200
VOLTAGE	340	430	460	370	400	340	420	430	360	390
CURRENT	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0

FREQUENCIES 3 0.3

SENDER NO. 66445

OPERATOR B. FREEMAN

RECEIVER NO. 20693-R

OPERATOR S. CRUZE

COMMENTS: TRAINING BOTH GLEN ROGER & PAT McMANUS ON SENDER & RECEIVER

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT MINERAL BUTTE

LINE 24E HALF S SP. 1 DATE 9-9-70

SEND	1-2	2-3	3-4	4-5						
RECEIVE	10-14s	→								
RANGE	30X200	30X200	30X200	30X200						
VOLTAGE	340	420	440	360						
CURRENT	6.0	6.0	6.0	6.0						
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES 3 0.3

SENDER NO. 6644S

OPERATOR B. FREEMAN

RECEIVER NO. 20693-R

OPERATOR S. CRUZE

COMMENTS:

Job 572, LINE 24E, Sp 1, N½, 9/9/70 400.

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT MINERAL BUTTE
LINE 24E HALF N SP. 1 DATE 9-9-76

SEND	S.P.	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2
RECEIVE	10-14N	14-18N	→	18-22N	→	→	22-26N	→	→	→
RANGE		10	1.0	1.0	1.0	1.0	10	1.0	1.0	1.0
DC 1		4.1	4.9	2.3	4.7	4.8	0.5	2.7	4.7	4.0
DC 2										
DC 3 Cur		7	7	6	7	7	7	6	7	7
DC 4 #		1	2	3	4	5	6	7	8	9
DC 5 n		1	2	1	2	3	1	2	3	4
DC 6										
DC 7										
DC 8										
DC AVG.										
AC 1		266.	74.9	86.0	40.2	25.1	305.	36.5	24.4	18.4
AC 2		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.	+30.1	+25.1		+20.6			+1.5			
AC NOISE										
POT RES.	3K	2K		3K			2K			

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Minerac Butte
LINE 24E HALF N SP. 1 DATE 9-9-70

SEND	5-6	5-6	4-5	3-4	2-3	1-2	5-6	4-5	3-4	2-3
RECEIVE	CALC	26-30N	→	→	→	→	30-34	→	→	→
RANGE	1.0	10	10	1.0	1.0	1.0	1.0	1.0	0.1	1.0
DC 1	0.0	0.3	0.8	2.8	4.7	3.9	0.9	1.2	2.9	3.4
DC 2										
DC 3 Cum	1.0	7	6	6	7	7				
DC 4 #		10	11	12	13	14				
DC 5 "		1	2	3	4	5				
DC 6										
DC 7										
DC 8										
DC AVG.										
AC 1	97.4	403.	118.	24.8	19.1	16.0	54.6	45.2	9.64	11.2
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.	3.0	+12.6					+25.3			
AC NOISE	0.3									
POT RES.		2K					0.8K			

NO GOOD

Reversed stations @ 34 - LEAPFROG

PAGE 6

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT MINERAL BUTTE

LINE 24E HALF N SP. 1 DATE 9-9-20

SEND	1-2	5-6	4-5	3-4	2-3	5-6	4-5	3-4	2-3	1-2
RECEIVE	30-34	34-38N	→	→	→	30-34	→	→	→	→
RANGE	0.1	1.0	1.0	0.1	0.1	1.0	1.0	0.1	0.1	0.1
DC 1	5.0	2.3	2.9	4.6	6.5	0.7	1.2	3.0	4.9	4.4
DC 2										
DC 3 Cur		6	6	6	6	6	6	6	6	6
DC 4 #		20	21	22	23	15	16	17	18	19
DC 5 n		3	4	5	6	2	3	4	5	6
DC 6										
DC 7										
DC 8										
DC AVG.										
AC 1	8.03	25.5	14.8	4.31	3.45	81.9	38.7	9.53	6.89	6.32
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.		+29.1				-11.4				
AC NOISE										
POT RES.		6 K				10 K				

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Mineral Butte

LINE 24E HALF N SP. 1 DATE 9/9/2

PAGE 3

SEND	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	Cal
RECEIVE	14-18N	→	18-22N	→	→	22-26N	→	→	→	5-6
RANGE	30x233	30x233	30x200	30x233	30x233	30x233	30x200	30x233	30x233	10x100
VOLTAGE	500	390	440	520	390	410	440	490	390	100
CURRENT	7.0	7.0	6.0	7.0	7.0	7.0	6.0	7.0	7.0	1.0
SEND	5-6	4-5	3-4	2-3	1-2	5-6	4-5	3-4	2-3	1-2
RECEIVE	26-30N	→	→	→	→	30-34N	→	→	→	→
RANGE	30x233	30x200	30x200	30x233	30x233	200x30	200x30	200x30	200x30	200x30
VOLTAGE	440	386	440	490	390	380	350	440	420	320
CURRENT	7.0	6.0	6.0	7.0	7.0	6.0	6.0	6.0	6.0	6.0

FREQUENCIES 3.0 0.3

SENDER NO. 6644-5

OPERATOR 20693-R

RECEIVER NO.

OPERATOR

COMMENTS:

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Mineral Butte

LINE 24E HALF N SP. 1 DATE 9/9/

PAGE 4

SEND	5-6	4-5	3-4	2-3	5-6	4-5	3-4			
RECEIVE	34-38N	→	→	→						
RANGE	30x200	30x200	30x200	30x200						
VOLTAGE	390	350	440	420						
CURRENT	6.0	6.0	6.0	6.0						
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES 3.0 0.3

SENDER NO. 6644-5

OPERATOR 20643R

RECEIVER NO.

OPERATOR

COMMENTS:

JOB 572 LINE 24E SP1 S1/2 9/9/70 400 FEET=DIPOLE LENGTH
CAL GROUP NO. 1

CAL CUR	PFE	AC1	AC2	AC FREQ	DC FREQ	PFE CAL	RHO CAL
1.000	0.00	97.500	0.00	3.00	.30	0.0000	1.0256

COMPUTED DATA									FIELD DATA					
POINT NO.	N	RHO	PFE	MCF	CCPFE	CCMCF	CPFE		PFE	CUR	PT.	N	AC1	AC2
1	1	45.65	3.95	86.5	3.95	86.5	0.00	**	4.00	6.00	1	1	214.000	.10
2	2	29.04	4.65	160.1	4.53	156.0	.12	**	4.70	6.00	2	2	33.800	.10
3	1	42.87	4.50	105.0	4.50	105.0	0.00	**	4.50	6.00	3	1	200.000	0.00
4	2	54.28	5.00	92.1	5.00	92.1	0.00	**	5.00	6.00	4	2	63.000	0.00
5	3	46.00	4.30	93.5	4.15	90.3	.15	**	4.30	6.00	5	3	21.500	0.00
~~1~~	~~1~~	~~1.24~~	~~.50~~	~~402.2~~	~~-1.87~~	~~-1503.1~~	~~2.37~~	~~**~~	~~1.00~~	~~1.00~~	~~1~~	~~1~~	~~1.000~~	~~1.00~~
6	1	68.91	3.90	56.6	3.90	56.6	0.00	**	4.00	6.00	6	1	323.000	.20
7	2	42.00	5.10	121.4	5.10	121.4	0.00	**	5.10	6.00	7	2	48.700	0.00
8	3	72.74	4.30	59.1	4.22	58.1	.08	**	4.30	6.00	8	3	34.000	0.00
9	4	68.36	3.50	51.2	3.34	48.8	.16	**	3.50	6.00	9	4	16.100	0.00
10	1	205.72	1.20	5.8	1.20	5.8	0.00	**	1.20	6.00	10	1	991.000	0.00
11	2	70.47	5.00	70.9	5.00	70.9	0.00	**	5.00	6.00	11	2	81.800	0.00
12	3	38.99	5.60	143.6	5.41	138.9	.19	**	5.60	6.00	12	3	18.000	0.00
13	4	73.03	4.10	56.1	3.95	54.1	.15	**	4.10	6.00	13	4	17.100	0.00
14	5	65.77	2.70	41.1	2.41	36.7	.29	**	2.70	6.00	14	5	8.920	0.00
15	2	212.58	1.60	7.5	1.60	7.5	0.00	**	1.60	6.00	15	2	255.000	0.00
16	3	74.88	5.50	73.5	5.50	73.5	0.00	**	5.50	6.00	16	3	34.600	0.00
17	4	45.92	5.60	121.9	5.32	115.8	.28	**	5.60	6.00	17	4	10.600	0.00
18	5	81.62	4.25	52.1	4.04	49.5	.21	**	4.30	6.00	18	5	10.900	.10
19	6	73.74	2.60	35.3	2.22	30.1	.38	**	2.70	6.00	19	6	6.250	.20
20	3	174.46	2.10	12.0	2.10	12.0	0.00	**	2.10	6.00	20	3	83.300	0.00
21	4	63.93	6.00	93.9	5.82	91.1	.18	**	6.00	6.00	21	4	14.700	0.00
22	5	40.48	4.60	113.6	4.04	99.9	.56	**	4.60	6.00	22	5	5.390	0.00
23	6	71.15	3.40	47.8	3.00	42.2	.40	**	3.40	6.00	23	6	5.990	0.00

JOB 572 LINE 24E SP1 N1/2 9/9/70 400 FEET=DIPOLE LENGTH
CAL GROUP NO. 2

CAL CUR	PFE	AC1	AC2	AC FREQ	DC FREQ	PFE CAL	RHO CAL
1.000	0.00	97.400	0.00	3.00	.30	0.0000	1.0267

COMPUTED DATA									FIELD DATA					
POINT NO.	N	RHO	PFE	MCF	CCPFE	CCMCF	CPFE		PFE	CUR	PT.	N	AC1	AC2
10	1	71.14	.30	4.2	.30	4.2	0.00	**	.30	7.00	10	1	403.000	0.00
11	2	97.70	.80	8.2	.80	8.2	0.00	**	.80	6.00	11	2	118.000	0.00
12	3	52.35	2.80	53.5	2.68	51.1	.12	**	2.80	6.00	12	3	24.800	0.00
13	4	70.39	4.70	66.8	4.55	64.6	.15	**	4.70	7.00	13	4	19.100	0.00
14	5	102.41	3.90	38.1	3.75	36.6	.15	**	3.90	7.00	14	5	16.000	0.00
20	3	53.57	2.30	42.9	2.18	40.7	.12	**	2.30	6.00	20	3	25.500	0.00
21	4	62.54	2.90	46.4	2.72	43.4	.18	**	2.90	6.00	21	4	14.800	0.00
22	5	32.40	4.60	142.0	3.85	118.7	.75	**	4.60	6.00	22	5	4.310	0.00
23	6	42.28	~~5.00~~ 6.5	~~118.3~~ 155	4.20	99.3	.80	**	6.50	6.00	23	6	3.450	~~3.00~~ 0
15	2	67.74	.70	10.3	.70	10.3	0.00	**	.70	6.00	15	2	81.900	0.00
16	3	80.42	1.20	14.9	1.20	14.9	0.00	**	1.20	6.00	16	3	38.700	0.00
17	4	40.31	3.00	74.4	2.66	66.1	.34	**	3.00	6.00	17	4	9.530	0.00
18	5	51.94	4.90	94.3	4.50	86.7	.40	**	4.90	6.00	18	5	6.890	0.00
19	6	75.87	4.40	58.0	4.04	53.2	.36	**	4.40	6.00	19	6	6.320	0.00
1	1	48.74	4.10	84.1	4.10	84.1	0.00	**	4.10	7.00	1	1	266.000	0.00
2	2	55.31	4.90	88.6	4.90	88.6	0.00	**	4.90	7.00	2	2	74.900	0.00
3	1	18.07	2.30	127.3	2.24	123.9	.06	**	2.30	6.00	3	1	86.000	0.00
4	2	29.63	4.70	158.6	4.58	154.7	.12	**	4.70	7.00	4	2	40.200	0.00
5	3	46.30	4.80	103.7	4.65	100.5	.15	**	4.80	7.00	5	3	25.100	0.00
6	1	53.95	.50	9.3	.50	9.3	0.00	**	.50	7.00	6	1	305.000	0.00
7	2	30.79	2.70	87.7	2.59	84.1	.11	**	2.70	6.00	7	2	36.500	0.00
8	3	44.96	4.70	104.5	4.55	101.2	.15	**	4.70	7.00	8	3	24.400	0.00
9	4	67.36	4.00	59.4	3.84	56.9	.16	**	4.00	7.00	9	4	18.400	0.00

A
6
5
1
2
3

4565
4874
9439
47.2

Job 572, LINE 24E, Sp 2, Sand Nk, 9/24/70 400.

Please Punch

DP 28

For S.P.
BASE IS 22 Remote is 26

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT MINERAL BUTTE

LINE 24E HALF S SP. 2 DATE 9-24-2

PAGE 1

SEND	2-3	3-4	4-5	5-6	3-4	4-5	5-6	4-5	5-6	5-6
RECEIVE	22-26	→	→	→	26-30	→	→	30-34	→	34-38
RANGE	10	1.0	1.0	0.1	10	1.0	1.0	10	1.0	10
DC 1	0.8	2.3	3.5	3.2	1.7	3.2	3.3	1.9	2.6	1.7
DC 2										
DC 3										
DC 4 Gen	3	3	3	3	3	3	3	3	3	3
DC 5 #	1	2	3	4	5	6	7	8	9	10
DC 6 m	1	2	3	4	1	2	3	1	2	1
DC 7										
DC 8										
DC AVG.										
AC 1	147.	28.7	15.5	7.92	109.	36.0	15.7	102.	27.3	105.
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.	-28.0				+15.5	BASE IS	26	-1.2	BASE IS	+3.5
AC NOISE						Remote	is 30		30	
POT RES.	7K				10K			9K	Remote is 34	9K

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Mineral Butte 572
LINE 24E HALF N SP. 2 DATE 9-24-70

PAGE 2

SEND	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	5-6
RECEIVE	38-42	→	42-46	→	→	46-50	→	→	→	CAL ①
RANGE	10	1.0	10	1.0	1.0	10	1.0	1.0	0.1	1.0
DC 1	1.8	3.2	1.4	2.6	3.4	1.1	1.7	2.6	3.1	0.0
DC 2										
DC 3		1.7 @								
DC 4 Am	3	1 HZ 3	3	3	3	3	3	3	3	1.0
DC 5 #	11	4.8 @12	13	14	15	16	17	18	19	
DC 6 n	1	0.1 HZ 22	1	2	3	1	2	3	4	
DC 7										
DC 8										
DC AVG.										
AC 1	106.	36.1	105.	27.7	15.5	120.	33.6	13.2	9.20	97.4
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.	+14.3		+6.0			−1.1				3.0
AC NOISE										0.3
POT RES.	9K		10 K			8K				

572

PAGE 3

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Mineral Butte
LINE 24E HALF N SP. 2 DATE 9-24-72

SEND	5-6	4-5	3-4	2-3	1-2	5-6	4-5	3-4	2-3	1-2
RECEIVE	50-54	→	→	→	→	54-58	→	→	→	→
RANGE	10	1.0	1.0	0.1	0.1	1.0	1.0	1.0	0.1	0.1
DC 1	0.8	1.2	1.8	2.7	3.1	0.9	1.2	1.9	2.7	3.1
DC 2										
DC 3										
DC 4 m	3	3	3	3	3	3	3	3	3	3
DC 5 #	20	21	22	23	24	25	26	27	28	29
DC 6 n	1	2	3	4	5	2	3	4	5	6
DC 7										
DC 8										
DC AVG.										
AC 1	135.	35.4	14.2	6.67	5.37	56.3	24.0	11.4	6.10	5.40
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.	+3.4					+5.6	+			
AC NOISE										
POT RES.	4K					7K				

572

PAGE 4

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Mineral Butte
LINE 24E HALF N SP. 2 DATE 9-24-70

SEND	5-6	4-5	3-4	2-3						
RECEIVE	58-62	→	→	→						
RANGE	1.0	1.0	0.1	0.1						
DC 1	1.0	1.3	1.7	2.7						
DC 2										
DC 3										
DC 4 Cum	3	3	3	3						
DC 5 #	3.0	3.1	3.2	3.3						
DC 6 #	3	4	5	6						
DC 7										
DC 8										
DC AVG.										
AC 1	29.5	15.0	7.67	4.38						
AC 2	0.0	0.0	0.0	0.0						
AC AVG.										
S.P.	+17.4									
AC NOISE										
POT RES.	3.5K									

PAGE

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT MINERAL BUTTE

LINE 24E HALF S SP. 2 DATE 9-24

SEND	2-3	3-4	4-5	5-6	3-4	4-5	5-6	4-5	5-6	5-6
RECEIVE	22-26	→	→	→	26-30	→	→	30-34	→	34-38
RANGE	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300
VOLTAGE	550	660	530	420	650	530	420	530	420	420
CURRENT	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
SEND	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	5-6
RECEIVE	38-42	→	42-46	→	→	46-50	→	→	→	CAL
RANGE	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X100
VOLTAGE	540	560	650	540	560	520	640	540	560	140
CURRENT	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	1.0

FREQUENCIES 3 0.3

SENDER NO. 66-445

OPERATOR PAT MCMANUS

RECEIVER NO. 30603R

OPERATOR BILL FREEMAN

COMMENTS:

LINE 8E; 1st station is 36' from fence

LINE 12E = 170'

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Mineral Butte

LINE 24E HALF N SP. 2 DATE 9-25-20

SEND	5-6	4-5	3-4	2-3	1-2	5-6	4-5	3-4	2-3	1-2
RECEIVE	50-54	→				54-58	→			
RANGE	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300
VOLTAGE	420	520	640	540	560	410	520	640	530	540
CURRENT	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
SEND	5-6	4-5	3-4	2-3						
RECEIVE	58-62	→								
RANGE	10X300	10X300	10X300	10X300						
VOLTAGE	410	520	640	530						
CURRENT	3.0	3.0	3.0	3.0						

FREQUENCIES 3 0.3

SENDER NO. 66445

OPERATOR Pat McMahon

RECEIVER NO. 20693R

OPERATOR Bill Freeman

COMMENTS:

LINE 0; 1st electrode is 200' FROM FENCE

LINE 4E; 1st electrode is 215' From fence

168
258
269

135/ 250

JOB 572 LINE 24E SP 2 S+N 1/2 9/24/70 400 FEET=DIPOLE LENGTH
CAL GROUP NO. 1

CAL CUR	PFE	AC1	AC2	AC FREQ	DC FREQ	PFE CAL	RHO CAL
1.000	0.00	97.400	0.00	3.00	.30	0.0000	1.0267

COMPUTED DATA									FIELD DATA					
POINT NO.	N	RHO	PFE	MCF	CCPFE	CCMCF	CPFE		PFE	CUR	PT.	N	AC1	AC2
1	1	60.85	.80	13.1	.80	13.1	0.00	**	.80	3.00	1	1	147.000	0.00
2	2	48.23	2.30	47.7	2.30	47.7	0.00	**	2.30	3.00	2	2	28.700	0.00
3	3	65.88	3.50	53.1	3.41	51.8	.09	**	3.50	3.00	3	3	15.500	0.00
4	4	67.13	3.20	47.7	3.03	45.2	.17	**	3.20	3.00	4	4	7.920	0.00
5	1	45.52	1.70	37.3	1.70	37.3	0.00	**	1.70	3.00	5	1	109.000	0.00
6	2	61.03	3.20	52.4	3.20	52.4	0.00	**	3.20	3.00	6	2	36.000	0.00
7	3	66.60	3.30	49.5	3.21	48.2	.09	**	3.30	3.00	7	3	15.700	0.00
8	1	42.69	1.90	44.5	1.90	44.5	0.00	**	1.90	3.00	8	1	102.000	0.00
9	2	46.01	2.60	56.5	2.60	56.5	0.00	**	2.60	3.00	9	2	27.300	0.00
10	1	43.85	1.70	38.8	1.70	38.8	0.00	**	1.70	3.00	10	1	105.000	0.00
11	1	44.32	1.80	40.6	1.80	40.6	0.00	**	1.80	3.00	11	1	106.000	0.00
12	2	61.20	3.20	52.3	3.20	52.3	0.00	**	3.20	3.00	12	2	36.100	0.00
13	1	43.72	1.40	32.0	1.40	32.0	0.00	**	1.40	3.00	13	1	105.000	0.00
14	2	46.69	2.60	55.7	2.60	55.7	0.00	**	2.60	3.00	14	2	27.700	0.00
15	3	65.82	3.40	51.7	3.31	50.3	.09	**	3.40	3.00	15	3	15.500	0.00
16	1	49.82	1.10	22.1	1.10	22.1	0.00	**	1.10	3.00	16	1	120.000	0.00
17	2	56.13	1.70	30.3	1.70	30.3	0.00	**	1.70	3.00	17	2	33.600	0.00
18	3	55.62	2.60	46.7	2.49	44.7	.11	**	2.60	3.00	18	3	13.200	0.00
19	4	77.91	3.10	39.8	2.97	38.1	.13	**	3.10	3.00	19	4	9.200	0.00
20	1	55.89	.80	14.3	.80	14.3	0.00	**	.80	3.00	20	1	135.000	0.00
21	2	58.85	1.20	20.4	1.20	20.4	0.00	**	1.20	3.00	21	2	35.400	0.00
22	3	59.37	1.80	30.3	1.70	28.6	.10	**	1.80	3.00	22	3	14.200	0.00
23	4	56.26	2.70	48.0	2.49	44.2	.21	**	2.70	3.00	23	4	6.670	0.00
24	5	79.58	3.10	39.0	2.88	36.2	.22	**	3.10	3.00	24	5	5.370	0.00
25	2	93.32	.90	9.6	.90	9.6	0.00	**	.90	3.00	25	2	56.300	0.00
26	3	99.75	1.20	12.0	1.20	12.0	0.00	**	1.20	3.00	26	3	24.000	0.00
27	4	95.41	1.90	19.9	1.80	18.9	.10	**	1.90	3.00	27	4	11.400	0.00
28	5	90.05	2.70	30.0	2.51	27.9	.19	**	2.70	3.00	28	5	6.100	0.00
29	6	128.04	3.10	24.2	2.92	22.8	.18	**	3.10	3.00	29	6	5.400	0.00
30	3	122.36	1.00	8.2	1.00	8.2	0.00	**	1.00	3.00	30	3	29.500	0.00
31	4	124.80	1.30	10.4	1.30	10.4	0.00	**	1.30	3.00	31	4	15.000	0.00
32	5	112.12	1.70	15.2	1.56	13.9	.14	**	1.70	3.00	32	5	7.670	0.00
33	6	103.45	2.70	26.1	2.46	23.8	.24	**	2.70	3.00	33	6	4.380	0.00

BUSINESS FORMS PRINTING COMPANY ENGINEERED FOR HIGH SPEED PRINTERS

Jof 572, LINE 20E, sp 1, 5½, 9/10/70 400.

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT MINERAL BUTTE
LINE 20E HALF S SP. 1 DATE 9-10-76

PAGE 1

SEND	3-4	4-5	5-6	3-4	4-5	5-6	2-3	3-4	4-5	5-6
RECEIVE	CAL (1)	6-10N	→	2-6N	—	→	2S-2N	—	—	→
RANGE	1.0	1.0	1.0	10	1.0	1.0	10	1.0	1.0	0.1
DC 1	0.0	4.7	4.1	4.0	4.6	3.5	1.7	4.4	3.8	2.6
DC 2										
DC 3 Cm	1.0	3	3	3	3	3	6	6	3	3
DC 4 #		1	2	3	4	5	6	7	8	9
DC 5 n		1	2	1	2	3	1	2	3	4
DC 6										
DC 7										
DC 8										
DC AVG.										
AC 1	97.6	95.2	22.5	113.	30.7	11.6	515.	44.5	12.6	6.27
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.	3.0	+6.4		+36.3			-12.6			
AC NOISE	0.3									
POT RES.		0.8K		1K			1K			

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT MINERAL BUTTE
LINE 20E HALF 5 SP. 1 DATE 9-10-7

PAGE 2

SEND	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5	5-6
RECEIVE	2-6S	→				6-10S	→			
RANGE	10	10	1.0	0.1	0.1	10	1.0	0.1	0.1	0.1
DC 1	1.6	3.2	5.3	3.8	2.9	2.0	3.6	4.7	3.4	2.6
DC 2										
DC 3 Cur	6	6	6	3	3	6	6	6	3	3
DC 4 #	10	11	12	13	14	15	16	17	18	19
DC 5 n	1	2	3	4	5	2	3	4	5	6
DC 6										
DC 7										
DC 8										
DC AVG.										
AC 1	631.	147.	21.3	8.17	4.76	170.	51.0	9.78	4.42	2.83
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.	+15.8					+11.3				
AC NOISE										
POT RES.	2K					1.5K				

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT MINERAL BUTTE

LINE 20E HALF 5 SP. 1 DATE 9-10-70

SEND	1-2	2-3	3-4	4-5						
RECEIVE	10-145	→		→						
RANGE	1.0	1.0	0.1	0.1						
DC 1	2.3	4.0	4.8	3.6						
DC 2										
DC 3 Cur	6	6	6	3						
DC 4 #	20	21	22	23						
DC 5 n	3	4	5	6						
DC 6										
DC 7										
DC 8										
DC AVG.										
AC 1	68.2	23.9	5.52	2.90						
AC 2	0.0	0.0	0.0	0.0						
AC AVG.										
S.P.	+6.4									
AC NOISE										
POT RES.	1.5K									

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PAGE 1

PROJECT MINERAL BUTTE

LINE 20E HALF S SP. 1 DATE 9-10-70

SEND	3-4	4-5	5-6	3-4	4-5	5-6	2-3	3-4	4-5	5-6
RECEIVE	CAL	6-10N	→	2-6N	→	→	2S-2N	→	→	→
RANGE	10X100	10X300	10X300	30X100	30X100	30X100	30X200	30X200	30X100	30X100
VOLTAGE	80	270	320	220	270	320	360	420	280	320
CURRENT	1.0	3.0	3.0	3.0	3.0	3.0	6.0	6.0	3.0	3.0
SEND	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5	5-6
RECEIVE	2S-6S	→	→	→	→	6-10S	→	→	→	→
RANGE	30X200	30X200	30X200	30X100	30X100	30X200	30X200	30X200	30X100	30X100
VOLTAGE	380	360	420	270	320	380	350	420	270	320
CURRENT	6.0	6.0	6.0	3.0	3.0	6.0	6.0	6.0	3.0	3.0

FREQUENCIES 3 0.3

SENDER NO. 66445

OPERATOR ROGER + McMANUS

RECEIVER NO. 20693-R

OPERATOR B. FREEMAN

COMMENTS: STEVE CRUZE Register.

1st TIME Roger + McMANUS ON Sender by themselves.

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT MINERAL BUTTE
LINE 20E HALF 5 SP. 1 DATE 9-10-70

SEND	1-2	2-3	3-4	4-5						
RECEIVE	10-14s	→	→	→						
RANGE	30x200	30x200	30x200	30x100						
VOLTAGE	380	360	420	260						
CURRENT	6.0	6.0	6.0	3.0						
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES 3 0.3
SENDER NO. 66445
OPERATOR Roger & McMANUS
RECEIVER NO. 20693-R
OPERATOR B. FREEMAN

COMMENTS:

Job 572, Line 20E, Sp 1, Nh, 9/10/70 400.

Duplicate 5½ Cal for this ½

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT MINERAL BUTTE

LINE 20E HALF N SP. 1 DATE 9-10-70

SEND	S.P.	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2
RECEIVE	10-14N	14-18N	→	18-22N	→	→	22-26N	→	→	→
RANGE		10	1.0	10	1.0	1.0	10	1.0	1.0	1.0
DC 1		4.5	4.5	1.8	3.9	3.4	0.6	2.1	3.8	3.3
DC 2										
DC 3 Pair		6	6	6	6	6	3	6	6	6
DC 4 #		1	2	3	4	5	6	7	8	9
DC 5 n		1	2	1	2	3	1	2	3	4
DC 6										
DC 7										
DC 8										
DC AVG.										
AC 1		185.	64.5	154.	49.8	28.4	186.	50.7	30.8	21.3
AC 2		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.	+22.6	+20.7	-13.6	→ 0			+7.7			
AC NOISE										
POT RES.	2K	2K	1K	→ 0			1.5K			

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT MINERAL BUTTE

LINE 20E HALF N SP. 1 DATE 9-10-7.

SEND	5-6	4-5	3-4	2-3	1-2	5-6	4-5	3-4	2-3	1-2
RECEIVE	26-30N	→	→	→	→	30-34N	→	→	→	→
RANGE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	0.1	0.1
DC 1	0.4	0.9	2.5	4.1	3.8	1.1	2.0	3.0	4.5	4.2
DC 2										
DC 3 Cm	3	3	6	6	6	3	3	6	6	6
DC 4 #	10	11	12	13	14	15	16	17	18	19
DC 5 n	1	2	3	4	5	2	3	4	5	6
DC 6										
DC 7										
DC 8										
DC AVG.										
AC 1	160.	50.8	24.7	18.1	13.5	32.3	15.4	9.15	7.35	5.87
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.	+13.5					+3.5				
AC NOISE										
POT RES.	1.5K					1.5K				

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT MINERAL BUTTE
LINE 20E HALF N SP. 1 DATE 8-10-7

PAGE 6

SEND	5-6	4-5	3-4	2-3						
RECEIVE	34-38m	→	→	→						
RANGE	1.0	0.1	0.1	0.1						
DC 1	2.9	2.9	4.0	5.8						
DC 2										
DC 3 Cm	3	3	6	6						
DC 4 #	20	21	22	23						
DC 5 n	3	4	5	6						
DC 6										
DC 7										
DC 8										
DC AVG.										
AC 1	16.6	9.51	6.58	5.68						
AC 2	0.0	0.0	0.0	0.0						
AC AVG.										
S.P.	+21.8									
AC NOISE										
POT RES.	2K									

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Mineral Butte

LINE 20E HALF N SP. 1 DATE 9-10-70

SEND	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	5-6
RECEIVE	14-18N	→	18-22N	→	→	22-26N	→	→	→	26-30N
RANGE	30X200	30X200	30X200	30X200	30X200	30X100	30X200	30X200	30X200	30X100
VOLTAGE	360	380	420	360	380	260	420	360	380	320
CURRENT	6.0	6.0	6.0	6.0	6.0	3.0	6.0	6.0	6.0	3.0
SEND	4-5	3-4	2-3	1-2	5-6	4-5	3-4	2-3	1-2	5-6
RECEIVE	26-30N	→	→	→	30-34N	→	→	→	→	34-38N
RANGE	30X100	30X200	30X200	30X200	30X100	30X100	30X200	30X200	30X200	30X100
VOLTAGE	260	420	360	380	310	260	420	360	380	310
CURRENT	3.0	6.0	6.0	6.0	3.0	3.0	6.0	6.0	6.0	3.0

FREQUENCIES 3 0.3

SENDER NO. 6644S

OPERATOR Roger + M. McMANUS

RECEIVER NO. 20693R

OPERATOR B. FREEMAN

COMMENTS:

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Mineral Butte

LINE 20E HALF N SP. 1 DATE 9-10-70

SEND	4-5	3-4	2-3							
RECEIVE	34-38N	—	—							
RANGE	30X100	30X200	30X200							
VOLTAGE	260	420	360							
CURRENT	3.0	6.0	6.0							
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES 3 0.3

SENDER NO. 6644 S

OPERATOR Roger + McManus

RECEIVER NO. 20693-R

OPERATOR B. Freeman

COMMENTS:

JOB 572 LINE 20E SP1 S1/2 9/10/70 400 FEET=DIPOLE LENGTH
CAL GROUP NO. 1

CAL CUR	PFE	AC1	AC2	AC FREQ	DC FREQ	PFE CAL	RHO CAL
1.000	0.00	97.600	0.00	3.00	.30	0.0000	1.0246

COMPUTED DATA									FIELD DATA					
POINT NO.	N	RHO	PFE	MCF	CCPFE	CCMCF	CPFE		PFE	CUR	PT.	N	AC1	AC2
1	1	40.85	4.70	115.1	4.70	115.1	0.00	**	4.70	3.00	1	1	95.200	0.00
2	2	38.40	4.10	106.8	4.02	104.7	.08	**	4.10	3.00	2	2	22.500	0.00
3	1	48.16	4.00	83.0	4.00	83.0	0.00	**	4.00	3.00	3	1	113.000	0.00
4	2	52.64	4.60	87.4	4.60	87.4	0.00	**	4.60	3.00	4	2	30.700	0.00
5	3	49.20	3.50	71.1	3.37	68.4	.13	**	3.50	3.00	5	3	11.600	0.00
6	1	107.33	1.70	15.8	1.70	15.8	0.00	**	1.70	6.00	6	1	515.000	0.00
7	2	38.08	4.40	115.5	4.32	113.4	.08	**	4.40	6.00	7	2	44.500	0.00
8	3	53.60	3.80	70.9	3.68	68.7	.12	**	3.80	3.00	8	3	12.600	0.00
9	4	52.73	2.60	49.3	2.37	44.9	.23	**	2.60	3.00	9	4	6.270	0.00
10	1	131.37	1.60	12.2	1.60	12.2	0.00	**	1.60	6.00	10	1	631.000	0.00
11	2	124.35	3.20	25.7	3.20	25.7	0.00	**	3.20	6.00	11	2	147.000	0.00
12	3	45.96	5.30	115.3	5.15	112.1	.15	**	5.30	6.00	12	3	21.300	0.00
13	4	69.51	3.80	54.7	3.64	52.4	.16	**	3.80	3.00	13	4	8.170	0.00
14	5	70.26	2.90	41.3	2.64	37.6	.26	**	2.90	3.00	14	5	4.760	0.00
15	2	142.13	2.00	14.1	2.00	14.1	0.00	**	2.00	6.00	15	2	170.000	0.00
16	3	108.27	3.60	33.3	3.60	33.3	0.00	**	3.60	6.00	16	3	51.000	0.00
17	4	41.97	4.70	112.0	4.38	104.4	.32	**	4.70	6.00	17	4	9.780	0.00
18	5	65.56	3.40	51.9	3.11	47.5	.29	**	3.40	3.00	18	5	4.420	0.00
19	6	66.64	2.60	39.0	2.17	32.5	.43	**	2.60	3.00	19	6	2.830	0.00
20	3	142.97	2.30	16.1	2.30	16.1	0.00	**	2.30	6.00	20	3	68.200	0.00
21	4	101.87	4.00	39.3	3.91	38.4	.09	**	4.00	6.00	21	4	23.900	0.00
22	5	41.49	4.80	115.7	4.26	102.7	.54	**	4.80	6.00	22	5	5.520	0.00
23	6	68.95	3.60	52.2	3.19	46.2	.41	**	3.60	3.00	23	6	2.900	0.00

BUSINESS FORMS PRINTING COMPANY ENGINEERED FOR HIGH SPEED PRINTERS

JOB 572 LINE 20E SP1 N1/2 9/10/70 400 FEET=DIPOLE LENGTH
CAL GROUP NO. 2

CAL CUR	PFE	AC1	AC2	AC FREQ	DC FREQ	PFE CAL	RHO CAL
1.000	0.00	97.600	0.00	3.00	.30	0.0000	1.0246

COMPUTED DATA									FIELD DATA					
POINT NO.	N	RHO	PFE	MCF	CCPFE	CCMCF	CPFE		PFE	CUR	PT.	N	AC1	AC2
1	1	39.62	4.50	113.6	4.50	113.6	0.00	**	4.50	6.00	1	1	185.000	0.00
2	2	55.25	4.50	81.5	4.50	81.5	0.00	**	4.50	6.00	2	2	64.500	0.00
3	1	32.13	1.80	56.0	1.80	56.0	0.00	**	1.80	6.00	3	1	154.000	0.00
4	2	42.41	3.90	92.0	3.90	92.0	0.00	**	3.90	6.00	4	2	49.800	0.00
5	3	60.18	3.40	56.5	3.30	54.8	.10	**	3.40	6.00	5	3	28.400	0.00
6	1	76.69	.60	7.8	.60	7.8	0.00	**	.60	3.00	6	1	186.000	0.00
7	2	42.43	2.10	49.5	2.10	49.5	0.00	**	2.10	6.00	7	2	50.700	0.00
8	3	65.51	3.80	58.0	3.71	56.6	.09	**	3.80	6.00	8	3	30.800	0.00
9	4	90.18	3.30	36.6	3.19	35.4	.11	**	3.30	6.00	9	4	21.300	0.00
10	1	65.84	.40	6.1	.40	6.1	0.00	**	.40	3.00	10	1	160.000	0.00
11	2	84.03	.90	10.7	.90	10.7	0.00	**	.90	3.00	11	2	50.800	0.00
12	3	51.88	2.50	48.2	2.38	45.8	.12	**	2.50	6.00	12	3	24.700	0.00
13	4	77.22	4.10	53.1	3.96	51.3	.14	**	4.10	6.00	13	4	18.100	0.00
14	5	100.50	3.80	37.8	3.64	36.2	.16	**	3.80	6.00	14	5	13.500	0.00
15	2	53.53	1.10	20.5	1.10	20.5	0.00	**	1.10	3.00	15	2	32.300	0.00
16	3	64.38	2.00	31.1	1.91	29.6	.09	**	2.00	3.00	16	3	15.400	0.00
17	4	38.62	3.00	77.7	2.64	68.4	.36	**	3.00	6.00	17	4	9.150	0.00
18	5	55.09	4.50	81.7	4.13	75.0	.37	**	4.50	6.00	18	5	7.350	0.00
19	6	70.19	4.20	59.8	3.80	54.1	.40	**	4.20	6.00	19	6	5.870	0.00
20	3	70.01	2.90	41.4	2.82	40.3	.08	**	2.90	3.00	20	3	16.600	0.00
21	4	80.21	2.90	36.2	2.77	34.5	.13	**	2.90	3.00	21	4	9.510	0.00
22	5	49.08	4.00	81.5	3.57	72.8	.43	**	4.00	6.00	22	5	6.580	0.00
23	6	68.96	5.80	84.1	5.39	78.1	.41	**	5.80	6.00	23	6	5.680	0.00

99.2
600
1000
547

Job 572, LINE 16E, Sp 1, 5½, 9/11/70 400.

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT MINERAL BUTTE 572
LINE 16E HALF S SP. 1 DATE 9-11-76

PAGE 1

SEND	4-5	5-6	4-5	5-6	3-4	4-5	5-6	2-3	3-4	4-5
RECEIVE	CAL (1)	10-14N	6-10N	→	2-6N	→	→	25-2N	→	→
RANGE	1.0	10.0	10.0	1.0	10.0	1.0	1.0	10.0	1.0	1.0
DC 1	0.1	1.9	3.2	3.7	1.8	3.7	3.1	1.9	3.0	3.7
DC 2										
DC 3 Cur	1.0	6	6	6	6	6	6	3	6	6
DC 4 #		1	2	3	4	5	6	7	8	9
DC 5 n		1	1	2	1	2	3	1	2	3
DC 6										
DC 7										
DC 8										
DC AVG.										
AC 1	97.7	161.	307.	82.9	388.	56.0	27.8	490.	56.7	19.5
AC 2	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.2	0.0	0.0
AC AVG.										
S.P.	3.0	+15.6	+19.6		-5.6			+19.9		
AC NOISE	0.3									
POT RES.		1.5K	1.0K		1.0K			0.5K		

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Minerac Butte
LINE 16E HALF S SP. 1 DATE 9-11-10

PAGE 2

SEND	5-6	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5
RECEIVE	2s-2N	2-6S	→	→	→	→	6-10s	→	→	→
RANGE	1.0	10.0	10.0	1.0	1.0	1.0	10.0	1.0	1.0	0.1
DC 1	3.0	1.4	2.5	3.7	3.9	2.9	1.9	3.1	4.0	3.7
DC 2										
DC 3 Cu	6	6	5	6	6	6	6	5	6	6
DC 4 #	10	11	12	13	14	15	16	17	18	19
DC 5 n	4	1	2	3	4	5	2	3	4	5
DC 6										
DC 7										
DC 8										
DC AVG.										
AC 1	13.3	695.	241.	26.5	13.0	10.6	165.	77.1	11.4	6.89
AC 2	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
AC AVG.										
S.P.		-8.9					+1.5			
AC NOISE										
POT RES.		1.3K					1.5K			

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Mineral Butte
LINE 16E HALF 5 SP. 1 DATE 9-11-2

PAGE 3

SEND	5-6	1-2	2-3	3-4	4-5					
RECEIVE	6-10s	10-14s	→							
RANGE	0.1	1.0	1.0	0.1	0.1					
DC 1	2.7	2.3	3.6	3.8	3.6					
DC 2										
DC 3 Km	6	6	5	6	6					
DC 4 #	20	21	22	23	24					
DC 5 n	6	3	4	5	6					
DC 6										
DC 7										
DC 8										
DC AVG.										
AC 1	6.33	58.2	32.1	5.87	4.31					
AC 2	0.0	0.0	0.0	0.0	0.0					
AC AVG.										
S.P.		-1.8								
AC NOISE										
POT RES.		1.5K								

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT MINERAL BUTTE

LINE 16E HALF 5 SP. 1 DATE 9-11-70

PAGE 1

SEND	3-4	5-6	4-5	5-6	3-4	4-5	5-6	2-3	3-4	4-5
RECEIVE	CAL	10-14N	6-10N	→	2-6N	→	→	2S-2N	→	→
RANGE	10X100	30X200	30X200	30X200	30X200	30X200	30X200	30X100	30X200	30X200
VOLTAGE	90	500	370	500	460	370	500	300	460	370
CURRENT	1.0	6.0	6.0	6.0	6.0	6.0	6.0	3.0	6.0	6.0
SEND	5-6	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5
RECEIVE	2S-2N	2-6S	→	→	→	→	6-10S	→	→	→
RANGE	30X200	30X200	30X166	30X200	30X200	30X200	30X200	30X166	30X200	30X200
VOLTAGE	500	420	490	460	360	500	420	490	460	360
CURRENT	6.0	6.0	5.0	6.0	6.0	6.0	6.0	5.0	6.0	6.0

FREQUENCIES 3 0.3

SENDER NO. 6644S

OPERATOR GLEN ROGER

RECEIVER NO. 20693R

OPERATOR STEVE CRUZE

COMMENTS:

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Mineral Butte

LINE 16E HALF 5 SP. 1 DATE 9-11-86

PAGE 2

SEND	5-6	1-2	2-3	3-4	4-5					
RECEIVE	6-10s	10-14s	→	→	→					
RANGE	30x200	30x200	30x166	30x200	30x200					
VOLTAGE	500	420	490	460	360					
CURRENT	6.0	6.0	5.0	6.0	6.0					
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES 3 0.3

SENDER NO. 6645S

OPERATOR

RECEIVER NO. 20693R

OPERATOR

COMMENTS:

Job 572, Line 16E, Sp 1, N½, 9/11/70 400.

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT MINERAL BUTTE
LINE 16E HALF N SP. 1 DATE 9-11-20

PAGE 4

SEND	3-4	S.P.	3-4	2-3	1-2	4-5	3-4	2-3	1-2	5-6
RECEIVE	CALC	14-18N	18-22N	→	→	22-26N	→	→	→	26-30N
RANGE	1.0		10.0	1.0	1.0	10.0	1.0	1.0	1.0	10.0
DC 1	0.1		1.8	3.7	3.1	0.7	1.7	3.2	2.6	0.6
DC 2										
DC 3										
DC 4 Cur	1.0		6	5	6	6	6	5	6	6
DC 5 #			1	2	3	4	5	6	7	8
DC 6 n			1	2	3	1	2	3	4	1
DC 7										
DC 8										
DC AVG.										
AC 1	97.6		182.	72.8	25.1	251.	50.4	37.7	16.4	341.
AC 2	0.0		0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.	3.0	+44.3	+21.0			-6.4				+10.9
AC NOISE	0.3									
POT RES.		1.3K	1.0K			4.3K				5.5K

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Mineral Butte
LINE 16E HALF N SP. 1 DATE 9-11-70

SEND	4-5	3-4	2-3	1-2	5-6	4-5	3-4	2-3	1-2	5-6
RECEIVE	26-30N	→	→	→	30-34N	→	→	→	→	34-38N
RANGE	1.0	1.0	1.0	0.1	1.0	1.0	1.0	1.0	0.1	1.0
DC 1	1.7	2.2	3.9	3.1	1.4	2.4	2.8	4.4	3.7	2.6
DC 2										
DC 3										
DC 4 Cur	6	6	5	6	6	6	6	5	6	6
DC 5 #	9	10	11	12	13	14	15	16	17	18
DC 6 M	2	3	4	5	2	3	4	5	6	3
DC 7										
DC 8										
DC AVG.										
AC 1	59.0	21.7	20.1	9.71	95.1	27.3	12.0	12.0	6.11	44.8
AC 2	0.0	0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1
AC AVG.										
S.P.					+22.1					+1.8
AC NOISE										
POT RES.					1.5K					2.0K

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT MINERAL BUTTE

LINE 16E HALF N SP. 1 DATE 9-11-20

SEND	4-5	3-4	2-3							
RECEIVE	3-4-38	→	→							
RANGE	1.0	0.1	0.1							
DC 1	3.4	3.2	5.0							
DC 2										
DC 3										
DC 4 Cm	6	6	5							
DC 5 #	19	20	21							
DC 6 n	4	5	6							
DC 7										
DC 8										
DC AVG.										
AC 1	15.3	7.17	8.07							
AC 2	0.1	0.0	0.1							
AC AVG.										
S.P.										
AC NOISE										
POT RES.										

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT MINERAL BUTTE

LINE 16E HALF N SP. 1 DATE 8-11-76

SEND	3-4	3-4	2-3	1-2	4-5	3-4	2-3	1-2	5-6	4-5
RECEIVE	CAL	18-22N	→	→	22-26N	→	→	→	26-30	→
RANGE	10x100	30x200	30x166	30x200	30x200	30x200	30x166	30x200	30x200	30x200
VOLTAGE	100	450	490	420	360	450	490	420	490	360
CURRENT	1.0	6.0	5.0	6.0	6.0	6.0	5.0	6.0	6.0	6.0
SEND	3-4	2-3	1-2	5-6	4-5	3-4	2-3	1-2	5-6	4-5
RECEIVE	26-30N	→	→	30-34N	→	→	→	→	34-38N	→
RANGE	30x200	30x166	30x200	30x200	30x200	30x200	30x166	30x200	30x200	30x200
VOLTAGE	450	490	420	490	360	440	480	420	490	360
CURRENT	6.0	5.0	6.0	6.0	6.0	6.0	5.0	6.0	6.0	6.0

FREQUENCIES 3 0.3

SENDER NO. 6644S

OPERATOR GLEN ROGER

RECEIVER NO. 20693R

OPERATOR STEVE CRUZE

COMMENTS:

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT MINERAL BUTTE

LINE 16E HALF N SP. 1 DATE 8-11-20

PAGE 4

SEND	3-4	2-3								
RECEIVE	34-38N	→								
RANGE	30X200	30X166								
VOLTAGE	460	480								
CURRENT	6.0	5.0								
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES 3 0.3

SENDER NO. 66445

OPERATOR GLEN ROGER

RECEIVER NO. 20693R

OPERATOR STEVE CRUZE

COMMENTS:

JOB 572 LINE 16E SP1 S1/2 9/11/70 400 FEET=DIPOLE LENGTH
CAL GROUP NO. 1

CAL CUR	PFE	AC1	AC2	AC FREQ	DC FREQ	PFE CAL	RHO CAL
1.000	.10	97.700	0.00	3.00	.30	.1000	1.0235

COMPUTED DATA									FIELD DATA					
POINT NO.	N	RHO	PFE	MCF	CCPFE	CCMCF	CPFE		PFE	CUR	PT.	N	AC1	AC2
1	1	33.55	1.75	52.2	1.75	52.2	0.00	**	1.90	6.00	1	1	161.000	.10
2	1	64.79	3.05	47.1	3.05	47.1	0.00	**	3.20	6.00	2	1	307.000	.10
3	2	70.32	3.60	51.2	3.60	51.2	0.00	**	3.70	6.00	3	2	82.900	0.00
4	1	80.78	1.65	20.4	1.65	20.4	0.00	**	1.80	6.00	4	1	388.000	.10
5	2	47.51	3.60	75.8	3.60	75.8	0.00	**	3.70	6.00	5	2	56.000	0.00
6	3	58.62	3.00	51.2	2.90	49.4	.10	**	3.10	6.00	6	3	27.800	0.00
7	1	204.23	1.70	8.3	1.70	8.3	0.00	**	1.90	3.00	7	1	490.000	.20
8	2	47.77	2.90	60.7	2.90	60.7	0.00	**	3.00	6.00	8	2	56.700	0.00
9	3	41.36	3.60	87.1	3.43	82.9	.17	**	3.70	6.00	9	3	19.500	0.00
10	4	56.03	2.85	50.9	2.64	47.1	.21	**	3.00	6.00	10	4	13.300	.10
11	1	144.12	1.30	9.0	1.30	9.0	0.00	**	1.40	6.00	11	1	695.000	0.00
12	2	242.49	2.40	9.9	2.40	9.9	0.00	**	2.50	5.00	12	2	241.000	0.00
13	3	56.20	3.60	64.1	3.49	62.1	.11	**	3.70	6.00	13	3	26.500	0.00
14	4	55.25	3.80	68.8	3.58	64.8	.22	**	3.90	6.00	14	4	13.000	0.00
15	5	78.07	2.80	35.9	2.57	33.0	.23	**	2.90	6.00	15	5	10.600	0.00
16	2	137.54	1.75	12.7	1.75	12.7	0.00	**	1.90	6.00	16	2	165.000	.10
17	3	195.08	3.00	15.4	3.00	15.4	0.00	**	3.10	5.00	17	3	77.100	0.00
18	4	48.49	3.90	80.4	3.64	75.0	.26	**	4.00	6.00	18	4	11.400	0.00
19	5	51.14	3.60	70.4	3.19	62.5	.41	**	3.70	6.00	19	5	6.890	0.00
20	6	74.45	2.60	34.9	2.23	29.9	.37	**	2.70	6.00	20	6	6.330	0.00
21	3	121.76	2.20	18.1	2.20	18.1	0.00	**	2.30	6.00	21	3	58.200	0.00
22	4	163.23	3.50	21.4	3.50	21.4	0.00	**	3.60	5.00	22	4	32.100	0.00
23	5	43.61	3.70	84.8	3.20	73.3	.50	**	3.80	6.00	23	5	5.870	0.00
24	6	51.14	3.50	68.4	2.88	56.3	.62	**	3.60	6.00	24	6	4.310	0.00

J/B 572 LINE16E SP1 N1/2 9/11/70 400 FEET=DIPOLE LENGTH
CAL GROUP NO. 2

CAL CUR	PFE	AC1	AC2	AC FREQ	DC FREQ	PFE CAL	RHO CAL
1.000	.10	97.600	0.00	3.00	.30	.1000	1.0246

COMPUTED DATA									FIELD DATA					
POINT NO.	N	RHO	PFE	MCF	CCPFE	CCMCF	CPFE		PFE	CUR	PT.	N	AC1	AC2
1	1	37.93	1.65	43.5	1.65	43.5	0.00	**	1.80	6.00	1	1	182.000	.10
2	2	74.18	3.60	48.5	3.60	48.5	0.00	**	3.70	5.00	2	2	72.800	0.00
3	3	52.98	3.00	56.6	2.88	54.4	.12	**	3.10	6.00	3	3	25.100	0.00
4	1	51.74	.60	11.6	.60	11.6	0.00	**	.70	6.00	4	1	251.000	0.00
5	2	41.97	1.60	38.1	1.60	38.1	0.00	**	1.70	6.00	5	2	50.400	0.00
6	3	95.58	3.10	32.4	3.10	32.4	0.00	**	3.20	5.00	6	3	37.700	0.00
7	4	68.89	2.50	36.3	2.34	34.0	.16	**	2.60	6.00	7	4	16.400	0.00
8	1	70.23	.50	7.1	.50	7.1	0.00	**	.60	6.00	8	1	341.000	0.00
9	2	49.13	1.60	32.6	1.60	32.6	0.00	**	1.70	6.00	9	2	59.000	0.00
10	3	45.40	2.00	44.1	1.85	40.8	.15	**	2.20	6.00	10	3	21.700	.20
11	4	102.61	3.80	37.0	3.71	36.1	.09	**	3.90	5.00	11	4	20.100	0.00
12	5	71.73	3.00	41.8	2.75	38.3	.25	**	3.10	6.00	12	5	9.710	0.00
13	2	78.96	1.30	16.5	1.30	16.5	0.00	**	1.40	6.00	13	2	95.100	0.00
14	3	57.23	2.30	40.2	2.19	38.3	.11	**	2.40	6.00	14	3	27.300	0.00
15	4	50.51	2.65	52.5	2.40	47.6	.25	**	2.80	6.00	15	4	12.000	.10
16	5	107.72	4.30	39.9	4.16	38.6	.14	**	4.40	5.00	16	5	12.000	0.00
17	6	72.64	3.60	49.6	3.21	44.3	.39	**	3.70	6.00	17	6	6.110	0.00
18	3	94.10	2.45	26.0	2.45	26.0	0.00	**	2.60	6.00	18	3	44.800	.10
19	4	64.78	3.25	50.2	3.08	47.5	.17	**	3.40	6.00	19	4	15.300	.10
20	5	53.02	3.10	58.5	2.71	51.2	.39	**	3.20	6.00	20	5	7.170	0.00
21	6	116.58	4.85	41.6	4.65	39.9	.20	**	5.00	5.00	21	6	8.070	.10

Job 572, LINE 12E, Sp 1, 5½, 9/14/70

400.

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT MINERAL BUTTE 572

LINE 12E HALF 5 SP. 1 DATE 9-14-2

PAGE 1

SEND	4-5	5-6	4-5	5-6	3-4	4-5	5-6	2-3	3-4	4-5
RECEIVE	CALD	10-14N	6-10N	→	2-6N	→	→	2S-2N	→	→
RANGE	10	1.0	10	1.0	10	1.0	1.0	10	1.0	0.1
DC 1	0.0	2.1	2.6	3.3	1.6	3.7	3.5	2.0	2.8	4.0
DC 2										
DC 3										
DC 4 Cur	1.0	3	3	3	3	3	3	3	3	3
DC 5 #		1	2	3	4	5	6	7	8	9
DC 6 "		1	1	2	1	2	3	1	2	3
DC 7										
DC 8										
DC AVG.										
AC 1	97.6	94.5	125.	29.5	446.	24.9	11.6	436.	61.4	9.94
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.	3.0	+16.1	-5.1		+10.0			+18.7		
AC NOISE	0.3									
POT RES.		2K	2.5K		2K			1.5K		

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Mineral Butte 572
LINE 12E HALF S SP. 1 DATE 9-14-22

PAGE 2

SEND	5-6	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5
RECEIVE	2s-2N	2-6s	→	→	→	→	6-10s	→	→	→
RANGE	0.1	10	1.0	1.0	0.1	0.1	1.0	1.0	0.1	0.1
DC 1	3.2	1.7	2.5	3.3	3.8	3.1	2.2	3.2	3.7	3.7
DC 2										
DC 3										
DC 4 Cur	3	5	3	3	3	3	5	3	3	3
DC 5 "	10	11	12	13	14	15	16	17	18	19
DC 6 "	4	1	2	3	4	5	2	3	4	5
DC 7										
DC 8										
DC AVG.										
AC 1	6.32	456.	95.6	20.8	5.89	4.46	94.8	26.1	7.44	3.06
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.		−8.3					+6.9			
AC NOISE										
POT RES.		2K					2K			

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT Mineral Butte #572

LINE 12E HALF S SP. 1 DATE 9-14-72

PAGE 3

SEND	5-6	1-2	2-3	3-4	4-5					
RECEIVE	6-10s	10-14s	—	—	—					
RANGE	0.1	1.0	1.0	0.1	0.1					
DC 1	3.0	2.7	3.7	4.1	3.5					
DC 2										
DC 3										
DC 4 Cur	3	5	3	3	3					
DC 5 #	20	21	22	23	24					
DC 6 n	6	3	4	5	6					
DC 7										
DC 8										
DC AVG.										
AC 1	2.55	35.4	11.7	4.08	2.10					
AC 2	0.0	0.0	0.0	0.0	0.0					
AC AVG.										
S.P.										
AC NOISE										
POT RES.										

#572

PAGE 1

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT MINERAL BUTTE

LINE 12E HALF S SP. 1 DATE 9-14-70

SEND	4-5	5-6	4-5	5-6	3-4	4-5	5-6	2-3	3-4	4-5
RECEIVE	CAL	10-14N	6-10N	→	2-6N	→	→	2S-2N	→	→
RANGE	10X100	30X100	30X100	30X100	30X100	30X100	30X100	30X100	30X100	30X100
VOLTAGE	170	580	460	580	340	460	560	440	340	460
CURRENT	1.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
SEND	5-6	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5
RECEIVE	2S-2N	2-6S	→	→	→	→	6-10S	→	→	→
RANGE	30X100	30X166	30X100	30X100	30X100	30X100	30X166	30X100	30X100	30X100
VOLTAGE	500	460	440	340	450	560	460	440	340	450
CURRENT	3.0	5.0	3.0	3.0	3.0	3.0	5.0	3.0	3.0	3.0

FREQUENCIES 3 0.3

SENDER NO. 66445

OPERATOR GLEN ROGER

RECEIVER NO. 20693-R

OPERATOR BILL FREEMAN

COMMENTS:

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT MINERAL BUTTE 572

LINE 12E HALF 5 SP. 1 DATE 9-14-2

PAGE 2

SEND	5-6	1-2	2-3	3-4	4-5					
RECEIVE	6-10s	10-14s	→	→	→					
RANGE	30x100	30x166	30x100	30x100	30x100					
VOLTAGE	560	460	450	340	440					
CURRENT	3.0	5.0	3.0	3.0	3.0					
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES _____ _____

SENDER NO.

OPERATOR

RECEIVER NO.

OPERATOR

COMMENTS:

Job 572, LINE 12, Sp1, N½, 9/14/70 400.

For Cal Card: Duplicate LINE 12, Sp1, S ½ cal card

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT MINERAL BUTTE 572

LINE 12E HALF N SP. 1 DATE 9-14-70

PAGE 4

SEND	5-6	S.P.	S.P.	4-5	3-4	2-3	1-2	5-6	4-5	3-4
RECEIVE	CAL	14-18N	18-22N	22-26N	→	→	→	26-30N	→	→
RANGE	1.0			1.0	1.0	1.0	1.0	1.0	1.0	1.0
DC 1	6.0			1.2	1.8	2.9	3.3	1.0	1.8	2.3
DC 2										
DC 3										
DC 4 Cu				3	3	3	5	3	3	3
DC 5 #				1	2	3	4	5	6	7
DC 6 n				1	2	3	4	1	2	3
DC 7										
DC 8										
DC AVG.										
AC 1	97.6			128.	29.7	17.4	13.9	170.	30.0	13.0
AC 2	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.		+35.1	+7.3	+3.0				-0.0		
AC NOISE										
POT RES.		2K	2K	2K				2K		

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Mineral Butte
LINE 12E HALF N SP. 1 DATE 9-14-70

SEND	2-3	1-2	5-6	4-5	3-4	2-3	1-2	5-6	4-5	3-4
RECEIVE	26-30N	—	30-34N	—	—	—	→	34-38	—	→
RANGE	0.1	0.1	1.0	1.0	0.1	0.1	0.1	1.0	0.1	0.1
DC 1	3.2	3.5	2.3	2.9	2.7	3.8	4.1	3.0	3.0	3.3
DC 2										
DC 3										
DC 4 Cam	3	5	3	3	3	3	5	3	3	3
DC 5 #	8	9	10	11	12	13	14	15	16	17
DC 6 n	4	5	2	3	4	5	6	3	4	5
DC 7										
DC 8										
DC AVG.										
AC 1	9.23	8.22	45.9	16.6	8.45	6.68	6.45	21.6	8.98	5.04
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.			+28.6					+6.0		
AC NOISE										
POT RES.			1.5K					2K		

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PAGE

PROJECT MINERAL BUTTE
LINE 12E HALF ____ SP. ____ DATE ____

SEND	S.P.									
RECEIVE					80					
RANGE	BASE	1S	38N		-2.4					
DC 1										
DC 2	REMOTE	1S	42N		50					
DC 3					5					
DC 4					61		27			
DC 5					3.3					
DC 6					70					
DC 7					-1.2					
DC 8					6.3					
DC AVG.										
AC 1					61					
AC 2					27					
AC AVG.										
S.P.	-24.2				44					
AC NOISE										
POT RES.	15K									

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT MINERAL BUTTE

LINE 12E HALF N SP. 1 DATE 9-14-20

SEND	2-3	5-6	4-5	3-4						
RECEIVE	34-38	38-42N	→	→						
RANGE	0.1	0.1	0.1	0.1						
DC 1	4.3	3.1	3.3	3.5						
DC 2										
DC 3										
DC 4 Cm	3	3	3	3						
DC 5 #	18	19	20	21						
DC 6 "	6	4	5	6						
DC 7										
DC 8										
DC AVG.										
AC 1	4.30	9.95	4.45	2.65						
AC 2	0.0	0.0	0.0	0.0						
AC AVG.										
S.P.										
AC NOISE										
POT RES.										

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Mineral Butte 572

LINE 12E HALF N SP. 1 DATE 9-14-72

PAGE 3

SEND	5-6	4-5	3-4	2-3	1-2	5-6	4-5	3-4	2-3	1-2
RECEIVE	CAL	22-26N	→	→	→	26-30N	→	→	→	→
RANGE	10x100	30x100	30x100	30x100	30x166	30x100	30x100	30x100	30x100	30x166
VOLTAGE	220	440	340	440	460	540	440	340	440	460
CURRENT	1.0	3.0	3.0	3.0	5.0	3.0	3.0	3.0	3.0	5.0
SEND	5-6	4-5	3-4	2-3	1-2	5-6	4-5	3-4	2-3	5-6
RECEIVE	30-34	→	→	→	→	34-38N	→	→	→	38-42N
RANGE	30x100	30x100	30x100	30x100	30x166	30x100	30x100	30x100	30x100	30x100
VOLTAGE	540	440	340	440	460	540	440	340	440	540
CURRENT	3.0	3.0	3.0	3.0	5.0	3.0	3.0	3.0	3.0	3.0

FREQUENCIES 3 0.3

SENDER NO.

OPERATOR

RECEIVER NO.

OPERATOR

COMMENTS:

PAGE

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT _____

LINE 12E HALF ____ SP. ____ DATE ____

SEND	4.5	3-4								
RECEIVE	38-42	→								
RANGE	30X100	30x100								
VOLTAGE	440	340								
CURRENT	3.0	3.0								
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES _____ _____

SENDER NO.

OPERATOR

RECEIVER NO.

OPERATOR

COMMENTS:

Job 572, LINE 12E, Sp 2, N½, 9/14/70

400.

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT MINERAL BUTTE 572
LINE 12E HALF N SP. 2 DATE 9-14-70

PAGE 1

SEND	3-4	4-5	5-6	4-5	5-6	5-6	4-5	3-4	2-3	1-2
RECEIVE	22-26	→	→	26-30	→	30-34	42-46	→	→	→
RANGE	10	1.0	1.0	10	1.0	10	10	1.0	1.0	1.0
DC 1	1.6	2.5	3.1	1.3	2.2	1.3	1.3	1.9	2.6	3.5
DC 2										
DC 3										
DC 4 Pm	3	3	3	3	3	3	3	3	3	3
DC 5 #	1	2	3	4	5	6	7	8	9	10
DC 6 "	1	2	3	1	2	1	1	2	3	4
DC 7										
DC 8										
DC AVG.										
AC 1	186.	54.0	21.8	141.	38.3	157.	170.	44.7	16.3	10.8
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.							+4.9			
AC NOISE										
POT RES.							2.5K			

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT MINERAL BUTTE 572
LINE 12E HALF N SP. 2 DATE 9-14-76

PAGE 2

SEND	5-6	4-5	3-4	2-3	1-2	5-6	4-5	3-4	2-3	1-2
RECEIVE	46-50	→				50-54	→			
RANGE	10	1.0	1.0	0.1	0.1	1.0	1.0	1.0	0.1	0.1
DC 1	1.1	1.6	2.1	2.7	3.2	1.3	1.5	2.1	2.7	3.1
DC 2										
DC 3										
DC 4 Cur	3	3	3	3	3	3	3	3	3	3
DC 5 #	11	12	13	14	15	16	17	18	19	20
DC 6 "	1	2	3	4	5	2	3	4	5	6
DC 7										
DC 8										
DC AVG.										
AC 1	164.	53.4	21.8	9.83	7.20	62.0	29.5	14.8	7.58	5.97
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.	+3.7					-18.1				
AC NOISE										
POT RES.	2K					2K				

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT MINERAL BUTTE
LINE 12E HALF N SP. 2 DATE 9-14-2

SEND	5-6	4-5	3-4	2-3	5-6	4-5	3-4			3-4
RECEIVE	54-58	→	→	→	58-62	→	→			CALC
RANGE	1.0	1.0	1.0	0.1	1.0	1.0	0.1			1.0
DC 1	1.4	1.7	2.2	2.4	1.2	1.6	1.9			0.0
DC 2										
DC 3										
DC 4 Cur	3	3	3	3	3	3	3			1.0
DC 5 #	21	22	23	24	25	26	27			
DC 6 n	3	4	5	6	4	5	6			
DC 7										
DC 8										
DC AVG.										
AC 1	40.2	23.6	13.4	7.39	17.0	11.2	6.82			97.2
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
AC AVG.										
S.P.	10.9				25.9					3.0
AC NOISE										0.3
POT RES.	2K				1.5K					

572

PAGE 1

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT MINERAL BUTTE

LINE 12E HALF N SP. 2 DATE 9-14-20

SEND	3-4	4-5	5-6	4-5	5-6	5-6	4-5	3-4	2-3	1-2
RECEIVE	22-26	→	→	26-30	→	30-34	42-46	→	→	→
RANGE	30X100	30X100	30X100	30X100	30X100	30X100	30X100	30X100	30X100	30X100
VOLTAGE	310	320	430	320	410	410	300	290	350	340
CURRENT	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
SEND	5-6	4-5	3-4	2-3	1-2	5-6	4-5	3-4	2-3	1-2
RECEIVE	46-50	→	→	→	→	50-54	→	→	→	→
RANGE	30X100	30X100	30X100	30X100	30X100	30X100	30X100	30X100	30X100	30X100
VOLTAGE	400	300	290	350	340	400	300	290	350	340
CURRENT	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0

FREQUENCIES 3 0.3

SENDER NO. 66445

OPERATOR GLEN ROGER

RECEIVER NO. 20693-R

OPERATOR BILL FREEMAN

COMMENTS:

REGULATOR SWITCH KICKING OUT

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT #572 MINERAL BUTTE

LINE 2E HALF N SP. 2 DATE 9-14-76

PAGE 2

SEND	5-6	4-5	3-4	2-3	5-6	4-5	3-4			3-4
RECEIVE	54-58	→	→	→	58-62	→	→			CAC
RANGE	30x100	30x100	30x100	30x100	30x100	30x100	30x100			10x100
VOLTAGE	400	300	290	350	400	300	290			100
CURRENT	3.0	3.0	3.0	3.0	3.0	3.0	3.0			1.0
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES 3 0.3

SENDER NO. 6644-5

OPERATOR GLENN ROGER

RECEIVER NO. 20093-X

OPERATOR BILL FREEMAN

COMMENTS:

— REGULATOR SWITCH KICKING OUT

JOB 572 LINE 12E SP1 S 1/2 9/14/70 400 FEET=DIPOLE LENGTH
CAL GROUP NO. 1

CAL CUR	PFE	AC1	AC2	AC FREQ	DC FREQ	PFE CAL	RHO CAL
1.000	0.00	97.600	0.00	3.00	.30	0.0000	1.0246

COMPUTED DATA									FIELD DATA					
POINT NO.	N	RHO	PFE	MCF	CCPFE	CCMCF	CPFE		PFE	CUR	PT.	N	AC1	AC2
1	1	39.54	2.10	53.1	2.10	53.1	0.00	**	2.10	3.00	1	1	94.500	0.00
2	1	52.56	2.60	49.5	2.60	49.5	0.00	**	2.60	3.00	2	1	125.000	0.00
3	2	49.96	3.30	66.1	3.30	66.1	0.00	**	3.30	3.00	3	2	29.500	0.00
4	1	185.71	1.60	8.6	1.60	8.6	0.00	**	1.60	3.00	4	1	446.000	0.00
5	2	42.33	3.70	87.4	3.70	87.4	0.00	**	3.70	3.00	5	2	24.900	0.00
6	3	49.20	3.50	71.1	3.37	68.4	.13	**	3.50	3.00	6	3	11.600	0.00
7	1	182.26	2.00	11.0	2.00	11.0	0.00	**	2.00	3.00	7	1	436.000	0.00
8	2	103.47	2.80	27.1	2.80	27.1	0.00	**	2.80	3.00	8	2	61.400	0.00
9	3	42.37	4.00	94.4	3.83	90.5	.17	**	4.00	3.00	9	3	9.940	0.00
10	4	53.46	3.20	59.9	2.97	55.6	.23	**	3.20	3.00	10	4	6.320	0.00
11	1	114.04	1.70	14.9	1.70	14.9	0.00	**	1.70	5.00	11	1	456.000	0.00
12	2	160.64	2.50	15.6	2.50	15.6	0.00	**	2.50	3.00	12	2	95.600	0.00
13	3	88.06	3.30	37.5	3.30	37.5	0.00	**	3.30	3.00	13	3	20.800	0.00
14	4	50.11	3.80	75.8	3.55	70.9	.25	**	3.80	3.00	14	4	5.890	0.00
15	5	65.96	3.10	47.0	2.81	42.7	.29	**	3.10	3.00	15	5	4.460	0.00
16	2	95.30	2.20	23.1	2.20	23.1	0.00	**	2.20	5.00	16	2	94.800	0.00
17	3	110.39	3.20	29.0	3.20	29.0	0.00	**	3.20	3.00	17	3	26.100	0.00
18	4	63.24	3.70	58.5	3.52	55.7	.18	**	3.70	3.00	18	4	7.440	0.00
19	5	45.52	3.70	81.3	3.22	70.8	.48	**	3.70	3.00	19	5	3.060	0.00
20	6	60.28	3.00	49.8	2.50	41.5	.50	**	3.00	3.00	20	6	2.550	0.00
21	3	89.40	2.70	30.2	2.70	30.2	0.00	**	2.70	5.00	21	3	35.400	0.00
22	4	99.45	3.70	37.2	3.60	36.2	.10	**	3.70	3.00	22	4	11.700	0.00
23	5	60.92	4.10	67.3	3.78	62.1	.32	**	4.10	3.00	23	5	4.080	0.00
24	6	49.88	3.50	70.2	2.86	57.3	.64	**	3.50	3.00	24	6	2.100	0.00

JOB 572 LINE 12 SP 1 N 1/2 9/14/70 400 FEET=DIPOLE LENGTH
CAL GROUP NO. 1

CAL CUR	PFE	AC1	AC2	AC FREQ	DC FREQ	PFE CAL	RHO CAL
1.000	0.00	97.600	0.00	3.00	.30	0.0000	1.0246

COMPUTED DATA									FIELD DATA					
POINT NO.	N	RHO	PFE	MCF	CCPFE	CCMCF	CPFE		PFE	CUR	PT.	N	AC1	AC2
1	1	53.09	1.20	22.6	1.20	22.6	0.00	**	1.20	3.00	1	1	128.000	0.00
2	2	49.56	1.80	36.3	1.80	36.3	0.00	**	1.80	3.00	2	2	29.700	0.00
3	3	73.38	2.90	39.5	2.82	38.5	.08	**	2.90	3.00	3	3	17.400	0.00
4	4	70.62	3.30	46.7	3.15	44.5	.15	**	3.30	5.00	4	4	13.900	0.00
5	1	70.37	1.00	14.2	1.00	14.2	0.00	**	1.00	3.00	5	1	170.000	0.00
6	2	50.07	1.80	36.0	1.80	36.0	0.00	**	1.80	3.00	6	2	30.000	0.00
7	3	54.50	2.30	42.2	2.18	40.1	.12	**	2.30	3.00	7	3	13.000	0.00
8	4	78.08	3.20	41.0	3.07	39.3	.13	**	3.20	3.00	8	4	9.230	0.00
9	5	73.22	3.50	47.8	3.25	44.4	.25	**	3.50	5.00	9	5	8.220	0.00
10	2	76.98	2.30	29.9	2.30	29.9	0.00	**	2.30	3.00	10	2	45.900	0.00
11	3	70.01	2.90	41.4	2.82	40.3	.08	**	2.90	3.00	11	3	16.600	0.00
12	4	71.13	2.70	38.0	2.55	35.8	.15	**	2.70	3.00	12	4	8.450	0.00
13	5	99.46	3.80	38.2	3.64	36.6	.16	**	3.80	3.00	13	5	6.680	0.00
14	6	92.46	4.10	44.3	3.82	41.4	.28	**	4.10	5.00	14	6	6.450	0.00
15	3	91.18	3.00	32.9	3.00	32.9	0.00	**	3.00	3.00	15	3	21.600	0.00
16	4	75.81	3.00	39.6	2.86	37.7	.14	**	3.00	3.00	16	4	8.980	0.00
17	5	74.68	3.30	44.2	3.06	41.0	.24	**	3.30	3.00	17	5	5.040	0.00
18	6	102.93	4.30	41.8	4.06	39.5	.24	**	4.30	3.00	18	6	4.300	0.00
19	4	84.09	3.10	36.9	2.98	35.4	.12	**	3.10	3.00	19	4	9.950	0.00
20	5	65.94	3.30	50.0	3.01	45.7	.29	**	3.30	3.00	20	5	4.450	0.00
21	6	62.95	3.50	55.6	3.03	48.2	.47	**	3.50	3.00	21	6	2.650	0.00

JOB 572 LINE 12E SP 2 N 1/2 9/14/70 400 FEET=DIPOLE LENGTH
CAL GROUP NO. 2

CAL CUR	PFE	AC1	AC2	AC FREQ	DC FREQ	PFE CAL	RHO CAL
1.000	0.00	97.200	0.00	3.00	.30	0.0000	1.0288

COMPUTED DATA									FIELD DATA					
POINT NO.	N	RHO	PFE	MCF	CCPFE	CCMCF	CPFE		PFE	CUR	PT.	N	AC1	AC2
1	1	77.77	1.60	20.6	1.60	20.6	0.00	**	1.60	3.00	1	1	186.000	0.00
2	2	91.11	2.50	27.4	2.50	27.4	0.00	**	2.50	3.00	2	2	54.000	0.00
3	3	92.49	3.10	33.5	3.10	33.5	0.00	**	3.10	3.00	3	3	21.800	0.00
4	1	58.78	1.30	22.1	1.30	22.1	0.00	**	1.30	3.00	4	1	141.000	0.00
5	2	64.43	2.20	34.1	2.20	34.1	0.00	**	2.20	3.00	5	2	38.300	0.00
6	1	65.45	1.30	19.9	1.30	19.9	0.00	**	1.30	3.00	6	1	157.000	0.00
7	1	70.87	1.30	18.3	1.30	18.3	0.00	**	1.30	3.00	7	1	170.000	0.00
8	2	74.98	1.90	25.3	1.90	25.3	0.00	**	1.90	3.00	8	2	44.700	0.00
9	3	68.82	2.60	37.8	2.52	36.6	.08	**	2.60	3.00	9	3	16.300	0.00
10	4	92.00	3.50	38.0	3.39	36.9	.11	**	3.50	3.00	10	4	10.800	0.00
11	1	68.23	1.10	16.1	1.10	16.1	0.00	**	1.10	3.00	11	1	164.000	0.00
12	2	89.31	1.60	17.9	1.60	17.9	0.00	**	1.60	3.00	12	2	53.400	0.00
13	3	91.60	2.10	22.9	2.10	22.9	0.00	**	2.10	3.00	13	3	21.800	0.00
14	4	83.09	2.70	32.5	2.58	31.0	.12	**	2.70	3.00	14	4	9.830	0.00
15	5	107.02	3.20	29.9	3.05	28.5	.15	**	3.20	3.00	15	5	7.200	0.00
16	2	103.38	1.30	12.6	1.30	12.6	0.00	**	1.30	3.00	16	2	62.000	0.00
17	3	123.22	1.50	12.2	1.50	12.2	0.00	**	1.50	3.00	17	3	29.500	0.00
18	4	124.37	2.10	16.9	2.10	16.9	0.00	**	2.10	3.00	18	4	14.800	0.00
19	5	112.12	2.70	24.1	2.56	22.9	.14	**	2.70	3.00	19	5	7.580	0.00
20	6	141.85	3.10	21.9	2.95	20.8	.15	**	3.10	3.00	20	6	5.970	0.00
21	3	167.75	1.40	8.3	1.40	8.3	0.00	**	1.40	3.00	21	3	40.200	0.00
22	4	197.54	1.70	8.6	1.70	8.6	0.00	**	1.70	3.00	22	4	23.600	0.00
23	5	197.25	2.20	11.2	2.20	11.2	0.00	**	2.20	3.00	23	5	13.400	0.00
24	6	174.39	2.40	13.8	2.29	13.1	.11	**	2.40	3.00	24	6	7.390	0.00
25	4	141.60	1.20	8.5	1.20	8.5	0.00	**	1.20	3.00	25	4	17.000	0.00
26	5	163.90	1.60	9.8	1.52	9.3	.08	**	1.60	3.00	26	5	11.200	0.00
27	6	160.15	1.90	11.9	1.77	11.1	.13	**	1.90	3.00	27	6	6.820	0.00

Job 572, LINE 56E, Sp 1, N 75½, 10/10/70 1000.

DP 45

C.S.L.

Note: Coupling on back

BEARING: DUE NORTH (360°) FREQ. SPECTRUM CAL. ON BACK

OVER!! a = 1000' 572

1.0 & 0.1 HZ

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PAGE 1

PROJECT MINERAL BUTTE

LINE 56E HALF N SP. 1 DATE 10-10-70

SEND	2-3	1-2	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3
RECEIVE	CAL	15-25N	25-35	→	35-45	→	→	45-55N	→	→
RANGE	1.0	1.0	1.0	1.0	1.0	1.0	0.1	1.0	1.0	0.1
DC 1	+0.1	1.2	1.5	1.9	1.1	2.3	2.9	1.3	2.5	3.4
DC 2										
DC 3										
DC 4 Cu	1.0	4	4	4	5	4	4	4	5	4
DC 5 #		1	2	3	4	5	6	7	8	9
DC 6 n		1	1	2	1	2	3	1	2	3
DC 7										
DC 8										
DC AVG.										
AC 1	97.7	93.6	75.5	20.7	54.9	13.1	5.74	29.5	11.9	5.23
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.	1.0	+1.4	+9.3		+3.8			+19.2		
AC NOISE	0.1									
POT RES.		2.5K	4K		2K			3K		

CAL 2-3 SPECTRUM

3 Hz	97.7
1 Hz	0.0 ✓
0.3 Hz	0.0 ✓
0.1 Hz	0.0 ✓

DEVIATION : +0.1

3 — 0.3 check ON 1-2 35-45

3 Hz = 5.65

0.3 3%

against 2.9%
1 & 2.1 Hz

OVER!! 572

PAGE 2

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT MINERAL BUTTE
LINE 56E HALF N SP. 1 DATE 10-10-70

SEND	1-2	5-6	4-5	3-4	2-3	1-2	5-6	4-5	3-4	2-3
RECEIVE	45-55N	55-65	→	→	→	→	65-75	→	→	→
RANGE	0.1	1.0	1.0	0.1	0.1	0.1	1.0	0.1	0.1	0.1
DC 1	3.3	1.3	2.0	3.1	3.8	3.5	1.7	2.6	3.3	3.3
DC 2										
DC 3										
DC 4 Cur	4	4	4	5	4	4	4	4	5	4
DC 5 #	10	11	12	13	14	15	16	17	18	19
DC 6 n	4	1	2	3	4	5	2	3	4	5
DC 7										
DC 8										
DC AVG.										
AC 1	3.27	43.4	13.2	8.93	5.16	3.75	11.7	6.21	5.20	3.40
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.		+14.4					+18.4			
AC NOISE										
POT RES.		2.5K					1K			

(I) 1-2 FREQUENCY SPECTRUM

(V) 45-55N

0.1

3Hz 3.18 Deviation : 0.0

1Hz 2.6 % PFE

0.3Hz 4.5 % PFE

0.1 Hz 6.1 % PFE

Coupling

572

PAGE 3

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT MINERAL BUTTE
LINE 56E HALF N SP. 1 DATE 10-10-7

SEND	1-2	5-6	4-5	3-4	2-3	5-6	4-5	3-4		
RECEIVE	65-75N	75-85N	→	→	→	85-95N	→	→		
RANGE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
DC 1	3.1	1.9	3.1	3.9	4.1	2.3	3.4	4.5		
DC 2										
DC 3										
DC 4 Cm	4	4	4	5	4	4	4	5		
DC 5 #	20	21	22	23	24	25	26	27		
DC 6 #	6	3	4	5	6	4	5	6		
DC 7										
DC 8										
DC AVG.										
AC 1	2.69	4.30	2.97	2.83	2.01	2.20	1.86	1.96		
AC 2	0.0	0.2	0.0	0.0	0.0	0.2	0.0	0.0		
AC AVG.										
S.P.		+17.6				+15.3				
AC NOISE										
POT RES.		1K				1K				

FREQUENCY SPECTRUM Referenced to 3 Hz :

(I) 3 - 4
(V) 85 - 95

3 Hz	1.88 mv	Deviation : 0.0
1 Hz	4.0 %	
0.3 Hz	6.3 %	
0.1 Hz	7.5 %	

572

PAGE 4

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Mineral Butte
LINE 56E HALF S SP. 1 DATE 10-10-70

SEND	S.P.	3-4	4-5	5-6	2-3	3-4	4-5	5-6	1-2	2-3
RECEIVE	5-15N	5S-5N	→	→	5-15S	→	→	→	15-25S	→
RANGE		10	1.0	0.1	10	1.0	0.1	0.1	10	1.0
DC 1		1.2	1.9	2.7	1.3	2.0	2.7	3.6	1.3	1.8
DC 2										
DC 3										
DC 4 Cu		5	4	4	4	5	4	4	4	4
DC 5 #		28	29	30	31	32	33	34	35	36
DC 6 n		1	2	3	1	2	3	4	1	2
DC 7										
DC 8										
DC AVG.										
AC 1		118.	20.5	5.74	109.	24.8	6.82	2.86	135.	33.2
AC 2		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.	-10.7	+20.3			-0.0				+11.2	
AC NOISE										
POT RES.	2K	2.5K			1K				6K	

572

PAGE 5

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Mineral Butte
LINE 56E HALF S SP. 1 DATE 10-10-76

SEND	3-4	4-5	5-6	1-2	2-3	3-4	4-5	5-6	1-2	2-3
RECEIVE	15-25s	→	→	25-35s	→	→	→	→	35-45s	→
RANGE	1.0	0.1	0.1	1.0	1.0	0.1	0.1	0.1	1.0	0.1
DC 1	2.7	2.9	3.1	1.1	1.9	2.3	3.6	4.0	1.8	2.2
DC 2										
DC 3										
DC 4 Cu	5	4	4	4	4	5	4	4	4	4
DC 5 #	37	38	39	40	41	42	43	44	45	46
DC 6 n	3	4	5	2	3	4	5	6	3	4
DC 7										
DC 8										
DC AVG.										
AC 1	11.8	4.23	2.13	33.9	12.6	5.82	2.48	1.41	15.4	6.89
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
AC AVG.										
S.P.				+6.9					+10.9	
AC NOISE										
POT RES.				2K					5K	

572

PAGE 6

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Mineral Butte
LINE 56E HALF S SP. 1 DATE 10-10-72

SEND	3-4	4-5								
RECEIVE	35-45	s →								
RANGE	0.1	0.1								
DC 1	3.6	3.7								
DC 2										
DC 3										
DC 4 Cur	5	4								
DC 5 #	47	48								
DC 6 n	5	6								
DC 7										
DC 8										
DC AVG.										
AC 1	3.81	1.82								
AC 2	0.2	0.0								
AC AVG.										
S.P.										
AC NOISE										
POT RES.										

#572

PAGE 1

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Mineral Butte

LINE 56E HALF W SP. 1 DATE 10-10-78

SEND	2-3	1-2	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3
RECEIVE	CAL	15-25W	25-35W	→	35-45W	→	→	45-55W	→	→
RANGE	10X100	30X133	30X133	30X133	30X166	30X133	30X133	30X133	30X166	30X133
VOLTAGE	180	840	770	840	440	760	820	400	440	750
CURRENT	1.0	4.0	4.0	4.0	5.0	4.0	4.0	4.0	5.0	4.0
SEND	1-2	5-6	4-5	3-4	2-3	1-2	5-6	4-5	3-4	2-3
RECEIVE	45-55W	55-65W	→	→	→	→	65-75	→	→	
RANGE	30X133	30X133	30X133	30X166	30X133	30X133	10X133	10X133	10X166	10X133
VOLTAGE	820	460	400	440	740	800	460	400	430	740
CURRENT	4.0	4.0	4.0	5.0	4.0	4.0	4.0	4.0	5.0	4.0

FREQUENCIES 1 0.1

SENDER NO. 66445

OPERATOR Pat McManus

RECEIVER NO. 20693R

OPERATOR Bill Freeman

COMMENTS:

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Mineral Butte

LINE 56 E HALF W SP. 1 DATE 10-10-7

PAGE 2

SEND	1-2	5-6	4-5	3-4	2-3	5-6	4-5	3-4		
RECEIVE	65-75N	75-85N	→	→	→	85-95N	→	→		
RANGE	30X133	30X133	30X133	30X166	30X133	30X133	30X133	30X166		
VOLTAGE	800	460	400	420	740	450	400	420		
CURRENT	4.0	4.0	4.0	5.0	4.8	4.0	4.0	5.0		
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES 1 0.1

SENDER NO. 66445

OPERATOR Pat McManus

RECEIVER NO. 20633R

OPERATOR Bill Freeman

COMMENTS:

#572

PAGE 3

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Mineral Butte

LINE 56E HALF 5 SP. 1 DATE 10-10-70

SEND	3-4	4-5	5-6	2-3	3-4	4-5	5-6	1-2	2-3	3-4
RECEIVE	5w-5e	→	→	5-15e	→	→	→	15-25e	→	→
RANGE	30X166	30X133	30X133	30X133	30X166	30X133	30X133	30X133	30X133	30X166
VOLTAGE	420	380	440	700	420	380	440	760	700	410
CURRENT	5.0	4.0	4.0	4.0	5.0	4.0	4.0	4.0	4.0	5.0
SEND	4-5	5-6	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4
RECEIVE	15-25e	→	25-35e	→	→	→	→	35-45e	→	→
RANGE	30X133	30X133	30X133	30X133	30X166	30X133	30X133	30X133	30X133	30X166
VOLTAGE	380	440	760	700	410	380	440	760	700	400
CURRENT	4.0	4.0	4.0	4.0	5.0	4.0	4.0	4.0	4.0	5.0

FREQUENCIES 1 0.1

SENDER NO. 6644-15

OPERATOR Pat McManus

RECEIVER NO. 20693R

OPERATOR Bill Freeman

COMMENTS:

#572

PAGE 4

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Mineral Butte

LINE 56E HALF S SP. 1 DATE 10-10-70

SEND	4-5									
RECEIVE	35-45									
RANGE	30X133									
VOLTAGE	380									
CURRENT	4.0									
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES 1 0.1

SENDER NO. 6644S

OPERATOR Pat McManus

RECEIVER NO. 206930

OPERATOR Bill Freeman

COMMENTS:

Job 572, LINE 52E, Sp 1, Sand N½, 9/23/70 400.

DP 38

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

#572

PAGE 1

PROJECT Mineral Butte
LINE 52E HALF S SP. 1 DATE 9-23-70

SEND	1-2	5-6	4-5	5-6	3-4	4-5	5-6	2-3	3-4	4-5
RECEIVE	CAL①	10-14N	6-10N	→	2-6N	→	→	2S-2N	→	→
RANGE	1.0	10	10	1.0	10	1.0	1.0	10	1.0	1.0
DC 1	0.0	0.9	0.9	1.1	0.9	0.9	1.0	0.9	1.0	1.0
DC 2										
DC 3										
DC 4 Con	1.0	3	3	3	3	3	3	2	3	3
DC 5 #		1	2	3	4	5	6	7	8	9
DC 6 n		1	1	2	1	2	3	1	2	3
DC 7										
DC 8										
DC AVG.										
AC 1	97.2	123.	131.	38.3	232.	51.5	22.6	170.	48.6	15.2
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.	3.0	+10.1	-11.9		+1.7			-6.8		
AC NOISE	0.3									
POT RES.		4.5K	3.5K		3K			4K		

572

PAGE 2

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Mineral Butte
LINE 52 E HALF S SP. 1 DATE 9-23-70

SEND	5-6	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5
RECEIVE	2s-2N	2-6s	→	→	→	→	6-10s	→	→	→
RANGE	0.1	10	1.0	1.0	0.1	0.1	1.0	1.0	0.1	0.1
DC 1	1.1	1.1	1.4	1.3	1.4	1.7	1.3	1.5	1.3	1.5
DC 2										
DC 3										
DC 4 Fm	3	2	2	3	3	3	2	2	3	3
DC 5 #	10	11	12	13	14	15	16	17	18	19
DC 6 n	4	1	2	3	4	5	2	3	4	5
DC 7										
DC 8										
DC AVG.										
AC 1	7.78	158.	37.6	17.0	6.49	3.81	42.1	15.5	9.08	4.03
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.		+12.0					+18.1			
AC NOISE										
POT RES.		2K					2K			

#572

PAGE 3

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Mineral Butte
LINE 52E HALF S SP. 1 DATE 9-23-7.

SEND	5-6	1-2	2-3	3-4	4-5					
RECEIVE	6-10s	10-14s								
RANGE	0.1	1.0	0.1	0.1	0.1					
DC 1	2.1	1.3	1.3	1.4	1.8					
DC 2										
DC 3										
DC 4 Line	3	2	2	3	3					
DC 5 #	20	21	22	23	24					
DC 6 "	6	3	4	5	6					
DC 7										
DC 8										
DC AVG.										
AC 1	2.60	21.7	9.50	6.43	3.10					
AC 2	0.0	0.0	0.0	0.0	0.0					
AC AVG.										
S.P.		+9.0								
AC NOISE										
POT RES.		3.5K								

572

PAGE 4

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Mineral Butte
LINE 52E HALF N SP. 1 DATE 9-23-76

SEND	S.P.	S.P.	4-5	3-4	2-3	1-2	5-6	4-5	3-4	2-3
RECEIVE	14-18	18-22	22-26	N →			26-30 N	→		
RANGE			10	1.0	1.0	0.1	1.0	1.0	1.0	0.1
DC 1			0.7	0.9	1.1	1.1	0.7	0.8	1.0	1.5
DC 2										
DC 3										
DC 4 Cur			3	3	2	2	3	3	3	2
DC 5 #			25	26	27	28	29	30	31	32
DC 6 M			1	2	3	4	1	2	3	4
DC 7										
DC 8										
DC AVG.										
AC 1			108.	38.7	10.9	7.42	92.2	30.2	15.2	5.02
AC 2			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.	-3.4	-3.0	+1.4				+1.8			
AC NOISE										
POT RES.	3.5K	5K	5.5K				4K			

572

PAGE 5

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT MINERAL BUTTE
LINE 52E HALF N SP. 1 DATE 9-23-7

SEND	1-2	5-6	4-5	3-4	2-3	1-2				
RECEIVE	26-30N	30-34								
RANGE	0.1	1.0	1.0	0.1	0.1	0.1				
DC 1	1.5	0.9	1.1	1.2	1.5	2.1				
DC 2										
DC 3										
DC 4	2	3	3	3	2	2				
DC 5	33	34	35	36	37	38				
DC 6	5	2	3	4	5	6				
DC 7										
DC 8										
DC AVG.										
AC 1	3.75	26.2	11.5	6.74	2.54	2.04				
AC 2	0.0	0.0	0.0	0.0	0.0	0.0				
AC AVG.										
S.P.		+2.4								
AC NOISE										
POT RES.		2K								

572

PAGE 5

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Mineral Butte

LINE 52E HALF S SP. 1 DATE 9-28-70

SEND	1-2	5-6	4-5	5-6	3-4	4-5	5-6	2-3	3-4	4-5
RECEIVE	CAL	10-14N	10-6	→	2-6	→	→	2-2S	→	→
RANGE	10X100	10X300	10X300	10X300	10X300	10X300	10X300	10X200	10X300	10X300
VOLTAGE	340	340	700	340	860	700	340	710	850	690
CURRENT	1.0	3.0	3.0	3.0	3.0	3.0	3.0	2.0	3.0	3.0
SEND	5-6	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5
RECEIVE	→	2-6S	→	→	→	→	6-10S	→	→	→
RANGE	10X300	10X200	10X200	10X300	10X300	10X300	10X200	10X200	10X300	10X300
VOLTAGE	330	710	710	840	780	330	700	700	830	670
CURRENT	3.0	2.0	2.0	3.0	3.0	3.0	2.0	2.0	3.0	3.0

FREQUENCIES 3 0.3

SENDER NO. 6644S

OPERATOR PAT McMAHONS

RECEIVER NO. 20693R

OPERATOR BILL FREEMAN

COMMENTS:

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Mineral Butte
LINE 52E HALF S SP. 1 DATE 9-23-70

SEND	5-6	1-2	2-3	3-4	4-5	5-6				
RECEIVE	→	10-14s	→	→	→					
RANGE	10X300	10X200	10X300	10X300	10X300					
VOLTAGE	320	700	700	820	660					
CURRENT	3.0	2.0	2.0	3.0	3.0					
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES 3 0.3
SENDER NO. 6644S
OPERATOR PAT McMANUS
RECEIVER NO. 20693R
OPERATOR BILL FREEMAN

COMMENTS:

572

PAGE 7

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Mineral Butte

LINE 52E HALF N SP. 1 DATE 9-23-7

SEND	45	3-4	2-3	1-2	5-6	4-5	3-4	2-3	1-2	5-6
RECEIVE	22-26N	→	→	→	26-30N	→	→	→	→	30-34N
RANGE	10X300	10X300	10X200	10X200	10X300	10X300	10X300	10X200	10X200	10X300
VOLTAGE	640	800	680	680	320	640	800	680	680	320
CURRENT	3.0	3.0	2.0	2.0	3.0	3.0	3.0	2.0	2.0	3.0
SEND	4-5	3-4	2-3	1-2						
RECEIVE	30-34N	→	→	→						
RANGE	10X300	10X300	10X200	10X200						
VOLTAGE	640	800	680	680						
CURRENT	3.0	3.0	2.0	2.0						

FREQUENCIES 3 0.3

SENDER NO. 66445

OPERATOR Pat McMahon

RECEIVER NO. 20693R

OPERATOR Bill Freeman

COMMENTS:

Job 572, LINE 44E, Sp 1, N&S ½, 9/23/70 400.

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Mineral Butte #572
LINE 44E HALF N SP. 1 DATE 9-23-7?

PAGE 1

SEND	3-4	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2
RECEIVE	CAL	14-18N	→	18-22N		→	22-26N			→
RANGE	1.0	10	1.0	10	1.0	1.0	10	1.0	1.0	0.1
DC 1	0.0	0.8	1.0	1.0	1.1	1.6	0.7	1.2	1.5	2.0
DC 2										
DC 3										
DC 4 Cur	1.0	3	3	3	3	3	3	3	3	3
DC 5 #		1	2	3	4	5	6	7	8	9
DC 6 n		1	2	1	2	3	1	2	3	4
DC 7										
DC 8										
DC AVG.										
AC 1	97.6	180.	50.0	130.	39.7	17.2	112.	32.6	17.1	8.72
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.	3.0	-5.2		-2.8			+11.4			
AC NOISE	0.3									
POT RES.		4.5K		5K			4K			

#572

PAGE 2

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT MINERAL BUTTE
LINE 44E HALF N SP. 1 DATE 9-23-72

SEND	5-6	4-5	3-4	2-3	1-2	5-6	4-5	3-4	2-3	1-2
RECEIVE	26-30N	→	→	→	→	30-34N	→	→	→	→
RANGE	1.0	1.0	1.0	0.1	0.1	1.0	0.1	0.1	0.1	0.1
DC 1	0.9	1.1	1.7	2.0	2.3	1.2	1.5	2.1	2.4	2.8
DC 2										
DC 3										
DC 4 cm	3	3	3	3	3	3	3	3	3	3
DC 5 #	10	11	12	13	14	15	16	17	18	19
DC 6 n	1	2	3	4	5	2	3	4	5	6
DC 7										
DC 8										
DC AVG.										
AC 1	93.4	27.2	11.6	7.25	4.08	19.8	8.48	4.55	3.25	1.99
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.	-14.0					+6.5				
AC NOISE										
POT RES.	5K					6K				

#572

PAGE 3

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Mineral Butte
LINE 44E HALF N SP. 1 DATE 9-23-2

SEND	5-6	4-5	3-4	2-3						
RECEIVE	34-38N	→	→	→						
RANGE	0.1	0.1	0.1	0.1						
DC 1	1.5	2.0	2.5	2.9						
DC 2										
DC 3										
DC 4 Am	3	3	3	3						
DC 5 #	20	21	22	23						
DC 6 n	3	4	5	6						
DC 7										
DC 8										
DC AVG.										
AC 1	8.23	4.36	2.73	2.12						
AC 2	0.0	0.0	0.0	0.0						
AC AVG.										
S.P.	+18.8									
AC NOISE										
POT RES.	5K									

572

PAGE 4

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT MINERAL BUTTE
LINE 44E HALF S SP. 1 DATE 9-23-70

SEND	S.P.	S.P.	3-4	4-5	5-6	2-3	3-4	4-5	5-6	1-2
RECEIVE	10 14N	6-10N	2-6N	→	→	2-2N	→	→	→	2-6S
RANGE			10	1.0	1.0	10	1.0	1.0	0.1	10
DC 1			1.0	1.1	1.5	0.9	0.9	1.4	1.7	1.1
DC 2										
DC 3										
DC 4 Cur			3	3	3	3	3	3	3	3
DC 5 #			24	25	26	27	28	29	30	31
DC 6 n			1	2	3	1	2	3	4	1
DC 7										
DC 8										
DC AVG.										
AC 1			266.	51.9	17.7	224.	42.7	14.7	6.43	206.
AC 2			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.	+10.8	-16.4	+43.6			-24.4				+15.5
AC NOISE										
POT RES.	9K	8.5K	5K			5K				5K

572

PAGE 5

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Mineral Butte
LINE 44e HALF 5 SP. 1 DATE 9-23-76

SEND	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5	5-6	1-2
RECEIVE	2-6s	—	—	—	6-10s	—	—	—	—	10-14s
RANGE	1.0	1.0	0.1	0.1	1.0	1.0	0.1	0.1	0.1	1.0
DC 1	1.3	1.3	1.9	2.4	1.3	1.5	1.5	2.3	2.6	1.3
DC 2										
DC 3										
DC 4 Cm	3	3	3	3	3	3	3	3	3	3
DC 5 #	32	33	34	35	36	37	38	39	40	41
DC 6 n	2	3	4	5	2	3	4	5	6	3
DC 7										
DC 8										
DC AVG.										
AC 1	51.5	16.8	7.56	3.81	45.3	19.4	7.77	3.80	2.14	27.5
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.					+16.6					-3.4
AC NOISE										
POT RES.					3K					5K

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT MINERAL BUTTE 572
LINE 44E HALF 5 SP. 1 DATE 7-23-76

PAGE 6

SEND	2-3	3-4	4-5							
RECEIVE	10-14s	→	→							
RANGE	1.0	0.1	0.1							
DC 1	1.4	1.7	2.3							
DC 2										
DC 3										
DC 4 Pm	3	3	3							
DC 5 "	42	43	44							
DC 6 "	4	5	6							
DC 7										
DC 8										
DC AVG.										
AC 1	14.5	6.56	3.50							
AC 2	0.0	0.0	0.0							
AC AVG.										
S.P.										
AC NOISE										
POT RES.										

#572

PAGE 1

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Mineral Butte

LINE 44E HALF N SP. 1 DATE 8-23-7

SEND	3-4	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2
RECEIVE	CAL	14-18N	→	18-22N	→	→	22-26N	→	→	→
RANGE	10X100	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300
VOLTAGE	240	900	860	750	900	760	500	750	900	760
CURRENT	1.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
SEND	5-6	4-5	3-4	2-3	1-2	5-6	4-5	3-4	2-3	1-2
RECEIVE	26-30	→	→	→	→	30-34	→	→	→	→
RANGE	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300
VOLTAGE	420	500	740	900	760	420	500	740	900	760
CURRENT	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0

FREQUENCIES 3 2.3

SENDER NO. 66445

OPERATOR Pat McManus

RECEIVER NO. 20693R

OPERATOR Bill Freeman

COMMENTS:

572

PAGE 2

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Mineral Butte

LINE 44E HALF N SP. 1 DATE 9-23-7

SEND	5-6	4-5	3-4	2-3						
RECEIVE	37-38	→								
RANGE	10X300	10X300	10X300	10X300						
VOLTAGE	400	500	740	900						
CURRENT	3.0	3.0	3.0	3.0						
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES 3 0.3

SENDER NO. 66445

OPERATOR PAT McMANUS

RECEIVER NO. 20693R

OPERATOR BILL FREEMAN

COMMENTS:

572

PAGE 3

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT MINERAL BUTTE

LINE 4E HALF 5 SP. 1 DATE 9-23-70

SEND	3-4	4-5	5-6	2-3	3-4	4-5	5-6	1-2	2-3	3-4
RECEIVE	2-6N	→		2S-2N	→	→	→	2-6S	→	→
RANGE	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300
VOLTAGE	740	500	430	900	740	500	420	750	900	740
CURRENT	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
SEND	4-5	5-6	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4
RECEIVE	→	→	6-10S	→	→	→	→	10-14	→	→
RANGE	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300
VOLTAGE	500	420	750	890	740	500	420	750	890	730
CURRENT	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0

FREQUENCIES 3 0.3

SENDER NO. 86445

OPERATOR PAT McMANUS

RECEIVER NO. 20693R

OPERATOR BILL FREEMAN

COMMENTS:

572

PAGE 4

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Mineral Butte

LINE 446 HALF 5 SP. 1 DATE 9-23-70

SEND	4-5									
RECEIVE	10-145									
RANGE	10X300									
VOLTAGE	500									
CURRENT	3.0									
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES 3 0.3

SENDER NO. 66445

OPERATOR Pat McManus

RECEIVER NO. 30673R

OPERATOR Bill Freeman

COMMENTS:

Job 572, Line 40E, Sp 1, S & N ½, 9/22/70 400.

#572

PAGE 1

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Mineral Butte
LINE 40E HALF 5 SP. 1 DATE 9-22-76

SEND	4-5	5-6	4-5	5-6	3-4	4-5	5-6	2-3	3-4	4-5
RECEIVE	CAL①	10-14N	6-10N	→	2-6N	→	→	2S-2N	→	→
RANGE	1.0	10	10	1.0	10	1.0	1.0	10	1.0	1.0
DC 1 —	0.0	1.2	1.1	2.1	1.1	1.7	2.6	0.8	1.5	2.1
DC 2										
DC 3										
DC 4 Cm	1.0	3	3	3	3	3	3	3	3	3
DC 5 #		1	2	3	4	5	6	7	8	9
DC 6 "		1	1	2	1	2	3	1	2	3
DC 7		—								
DC 8										
DC AVG.										
AC 1 —	97.6	162.	217.	35.7	249.	44.0	12.6	327.	53.5	14.7
AC 2 —	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.	3.0	+10.0	+55.0		+7.7			-13.8		
AC NOISE	0.3									
POT RES.		7k	4k		2k			1.5k		

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Mineral Butte 572
LINE 40 E HALF 5 SP. 1 DATE 9-22-70

PAGE 2

SEND	5-6	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5
RECEIVE	2s-2N	2-6s	→	→	→	→	6s-10s	→	→	→
RANGE	0.1	1.0	1.0	1.0	0.1	0.1	1.0	1.0	0.1	0.1
DC 1	2.6	1.0	1.3	2.0	2.6	2.9	1.3	1.6	2.1	3.1
DC 2										
DC 3										
DC 4 Cur	3	3	3	3	3	3	3	3	3	3
DC 5 #	10	11	12	13	14	15	16	17	18	19
DC 6 M	4	1	2	3	4	5	2	3	4	5
DC 7										
DC 8										
DC AVG.										
AC 1	5.91	269.	65.8	20.5	7.71	3.99	36.5	16.2	6.35	2.91
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.		+6.7					+31.5			
AC NOISE										
POT RES.		2K					15K			

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

572

PAGE 3

PROJECT MINERAL BUTTE
LINE 40E HALF 5 SP. 1 DATE 9-22-76

SEND	5-6	1-2	2-3	3-4	4-5					
RECEIVE	6-10s	10-14s	→	→	→					
RANGE	0.1	1.0	1.0	0.1	0.1					
DC 1	3.1	1.6	2.0	2.5	3.2					
DC 2										
DC 3										
DC 4 Pin	3	3	3	3	3					
DC 5 #	20	21	22	23	24					
DC 6 "	6	3	4	5	6					
DC 7										
DC 8										
DC AVG.										
AC 1	1.77	32.3	16.8	7.21	3.59					
AC 2	0.0	0.0	0.0	0.0	0.0					
AC AVG.										
S.P.		+8.0								
AC NOISE										
POT RES.		10K								

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Mineral Butte #572
LINE 40E HALF 5 SP. 1 DATE 9-22-76

PAGE 4

SEND	S.P.	S.P	4-5	3-4	2-3	1-2	5-6	4-5	3-4	2-3
RECEIVE	14-18N	18-22N	22-26N	→	→	→	26-30N	→	→	→
RANGE			10	1.0	1.0	0.1	1.0	1.0	0.1	0.1
DC 1			1.0	2.0	2.9	2.7	1.1	1.7	2.5	2.9
DC 2										
DC 3										
DC 4 Gen			3	3	3	3	3	3	3	3
DC 5 #			25	26	27	28	29	30	31	32
DC 6 N			1	2	3	4	1	2	3	4
DC 7										
DC 8										
DC AVG.										
AC 1			128.	28.8	11.7	5.99	98.8	24.7	9.20	5.05
AC 2			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.	+18.9	+2.7	+0.8				+3.3			
AC NOISE										
POT RES.	8K	9K	2K				3K			

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Mineral Butte 572
LINE 40E HALF N SP. 1 DATE 9-22-26

PAGE 5

SEND	1-2	5-6	4-5	3-4	2-3	1-2	5-6	4-5	3-4	2-3
RECEIVE	26-30N	30-34N	→	→	→	→	34-38N	→	→	→
RANGE	0.1	1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
DC 1	2.7	1.4	1.9	2.8	2.9	2.6	1.6	2.4	3.1	3.5
DC 2										
DC 3										
DC 4 Cm	3	3	3	3	3	3	3	3	3	3
DC 5 #	33	34	35	36	37	38	39	40	41	42
DC 6 n	5	2	3	4	5	6	3	4	5	6
DC 7										
DC 8										
DC AVG.										
AC 1	3.10	20.5	8.35	4.12	2.67	1.80	8.49	4.44	2.55	1.80
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.		+1.8					+2.8			
AC NOISE										
POT RES.		5K					4K			

572

PAGE 6

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Mineral Butte
LINE 40E HALF N SP. 1 DATE 9-22-70

SEND	5-6	4-5	3-4	5-6	4-5					
RECEIVE	38-42N	→	→	42-46	→					
RANGE	0.1	0.1	0.1	0.1	0.1					
DC 1	2.5	3.0	4.1	3.0	3.2					
DC 2										
DC 3										
DC 4 Pin	3	3	3	3	3					
DC 5 "	43	44	45	46	47					
DC 6 "	4	5	6	5	6					
DC 7										
DC 8										
DC AVG.										
AC 1	3.91	2.37	1.50	2.52	1.68					
AC 2	0.0	0.0	0.0	0.0	0.0					
AC AVG.										
S.P.	+8.8			-2.0						
AC NOISE										
POT RES.	3K			6K						

572

PAGE 1

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Mineral Butte

LINE 40E HALF N SP. 1 DATE 9-22-70

SEND	4-5	5-6	4-5	5-6	3-4	4-5	5-6	2-3	3-4	4-5
RECEIVE	CAL	10-14N	6-10N	→	2-6N	→	→	2S-2N	→	→
RANGE	10X100	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300
VOLTAGE	230	530	730	530	770	720	530	560	770	720
CURRENT	1.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
SEND	5-6	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5
RECEIVE	2S-2N	2-6S	→	→	→	→	6-10S	→	→	→
RANGE	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300
VOLTAGE	530	380	560	760	720	530	380	560	760	720
CURRENT	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0

FREQUENCIES 5 0.5

SENDER NO. 66445

OPERATOR Pat McMurrows

RECEIVER NO. 20693 R

OPERATOR Bill Freeman

COMMENTS:

572

PAGE 2

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Mineral Butte

LINE 40E HALF S SP. 1 DATE [illegible]

SEND	5-6	1-2	2-3	3-4	4-5					
RECEIVE	6-10s	10-14s								
RANGE	10X300	10X300	10X300	10X300	10X300					
VOLTAGE	530	380	540	760	720					
CURRENT	3.0	3.0	3.0	3.0	3.0					
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES 3 0.3

SENDER NO. 6644S

OPERATOR PAT McMANUS

RECEIVER NO. 20693R

OPERATOR BILL FREEMAN

COMMENTS:

572

PAGE 3

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT MINERAL BUTTE

LINE 40E HALF N SP. 1 DATE 7-22-

SEND	4-5	4-3	3-2	1-2	5-6	4-5	3-4	2-3	1-2	5-6
RECEIVE	22-26	→	→	→	26-30	→	→	→	→	30-34
RANGE	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300
VOLTAGE	720	760	556	380	530	710	760	550	380	530
CURRENT	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
SEND	4-5	3-4	2-3	1-2	5-6	4-5	3-4	2-3	5-6	4-5
RECEIVE	→	→	→	→	34-38	→	→	→	38-42	→
RANGE	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300
VOLTAGE	730	750	550	380	520	700	750	550	520	700
CURRENT	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0

FREQUENCIES 3 0.3

SENDER NO. 6644 S

OPERATOR PAT McMANUS

RECEIVER NO. 20693R

OPERATOR BILL FREEMAN

COMMENTS:

572

PAGE 4

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT MINERAL BUTTE

LINE 40E HALF 10 SP. 1 DATE 7-22-

SEND	3-4	5-6	4-5							
RECEIVE		42-46	→							
RANGE	10X300	10X300	10X300							
VOLTAGE	740	520	700							
CURRENT	3.0	3.0	3.0							
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES 3 0.3

SENDER NO. 66445

OPERATOR PAT McMANUS

RECEIVER NO. 20693R

OPERATOR BILL FREEMAN

COMMENTS:

Job 572, LINE 40E, Sp. 2, N½, 9/22/70 400.

For Cal Card Duplicate Line 40E, Sp 1, 5 & N½ cal card

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT MINERAL BUTTE
LINE 40E HALF 5 SP. 2 DATE 9-22-76

SEND	1-2	2-3	3-4	4-5	2-3	3-4	4-5	3-4	4-5	4-5
RECEIVE	22-26	→	→	→	26-30	→	→	30-34	→	34-38
RANGE	1.0	1.0	0.1	0.1	1.0	1.0	0.1	1.0	1.0	1.0
DC 1	~~1.5~~	1.2	1.9	2.4	0.8	1.2	1.9	0.9	1.4	1.1
DC 2	1.0									
DC 3										
DC 4 Gain	3	3	3	3	3	3	3	3	3	3
DC 5 #	1	2	3	4	5	6	7	8	9	10
DC 6 n	1	2	3	4	1	2	3	1	2	1
DC 7										
DC 8										
DC AVG.										
AC 1	83.9	20.5	7.24	3.99	77.8	16.7	6.80	67.4	16.8	65.7
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.	+7.0				+5.5					
AC NOISE										
POT RES.	3. K				2 K					

572

PAGE 8

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT MINERAL BUTTE
LINE 40E HALF N SP. 2 DATE 9-22-70

SEND	3-4	2-3	1-2	4-5	3-4	2-3	1-2	4-5	3-4	2-3
RECEIVE	46-50	→		50-54	→			54-58	→	
RANGE	1.0	1.0	0.1	1.0	1.0	0.1	0.1	1.0	0.1	0.1
DC 1	0.9	1.5	1.8	0.9	0.9	1.2	1.7	1.0	1.1	1.6
DC 2										
DC 3										
DC 4 Cam	3	3	3	3	3	3	3	3	3	3
DC 5 #	11	12	13	14	15	16	17	18	19	20
DC 6 "	1	2	3	1	2	3	4	2	3	4
DC 7										
DC 8										
DC AVG.										
AC 1	68.9	18.2	7.03	71.4	17.0	6.83	3.34	22.6	7.52	3.92
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.	+14.2			+8.7				-5.5		
AC NOISE										
POT RES.	4K			2K				2.5K		

#572

PAGE 9

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT MINERAL BUTTE
LINE 406 HALF N SP. 2 DATE 9-22-86

SEND	1-2	4-5	3-4	2-3	1-2					
RECEIVE	54-58	58-62								
RANGE	0.1	1.0	0.1	0.1	0.1					
DC 1	2.1	1.1	1.1	1.8	2.0					
DC 2										
DC 3										
DC 4 Cur	3	3	3	3	3					
DC 5 #	21	22	23	24	25					
DC 6 m.	5	3	4	5	6					
DC 7										
DC 8										
DC AVG.										
AC 1	2.28	11.2	4.60	2.88	1.88					
AC 2	0.0	0.0	0.0	0.0	0.0					
AC AVG.										
S.P.		+5.3								
AC NOISE										
POT RES.		2K								

572

PAGE 5

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT MINERAL BUTTE

LINE 40E HALF N SP. 2 DATE 9-22-7

SEND	1-2	2-3	3-4	4-5	2-3	3-4	4-5	3-4	4-5	4-5
RECEIVE	22-26	→	→	→	26-30	→	→	30-34	→	34-38
RANGE	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300
VOLTAGE	380	420	400	400	420	400	400	390	380	380
CURRENT	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
SEND	3-4	2-3	1-2	4-5	3-4	2-3	1-2	4-5	3-4	2-3
RECEIVE	46-50	→	→	50-54	→	→	→	54-58	→	
RANGE	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300
VOLTAGE	380	400	370	380	380	400	360	380	380	400
CURRENT	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0

FREQUENCIES 3 0.3

SENDER NO. 66445

OPERATOR PAT McMANUS

RECEIVER NO. 20693R

OPERATOR BILL FREEMAN

COMMENTS:

572

PAGE 6

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Mineral Butte

LINE 40E HALF W SP. 2 DATE 9-22-70

SEND	1-2	45	3-4	2-3	1-2					
RECEIVE	→	58-62	←	→						
RANGE	10X300	10X300	10X300	10X300	10X300					
VOLTAGE	360	380	350	400	360					
CURRENT	3.0	3.0	3.0	3.0	3.0					
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES 3 0.3

SENDER NO. 66445

OPERATOR Pat McManus

RECEIVER NO. 20693R

OPERATOR Bill Freeman

COMMENTS:

Job 572, LINE 36E, Sp 1, S½, 9/21/70 400.

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT MINERAL BUTTE #572
LINE 36E HALF S SP. 1 DATE 9-21-70

PAGE 1

SEND	4-5	5-6	4-5	5-6	3-4	4-5	5-6	2-3	3-4	4-5
RECEIVE	CALC	10-14N	6-10N	→	2-6N	→	→	2S-2N	→	→
RANGE	1.0	10	10	1.0	10	1.0	1.0	10	1.0	1.0
DC 1	0.0	1.5	2.1	3.5	2.3	3.5	3.5	1.3	3.3	3.7
DC 2										
DC 3										
DC 4 Cur	1.0	3	3	3	3	3	3	3	3	3
DC 5 #		1	2	3	4	5	6	7	8	9
DC 6 n		1	1	2	1	2	3	1	2	3
DC 7										
DC 8										
DC AVG.										
AC 1	97.6	161.	184.	31.1	166.	30.3	12.2	367.	40.9	14.6
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.	3.0	+3.9	+6.4		+27.4			~~+7.5~~		
AC NOISE	0.3							-2.7		
POT RES.		7K	9K		5K			2K		

#572

PAGE 2

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT MINERAL BUTTE
LINE 36 E HALF 5 SP. 1 DATE 9-21-70

SEND	5-6	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5
RECEIVE	2s-2N	2-6S	→	→	→	→	6-10S	→	→	→
RANGE	0.1	10	1.0	1.0	0.1	0.1	1.0	1.0	0.1	0.1
DC 1	3.1	0.8	1.8	3.8	3.5	2.8	1.4	2.4	4.1	3.7
DC 2										
DC 3										
DC 4 Gen	3	3	3	3	3	3	3	3	3	3
DC 5 #	10	11	12	13	14	15	16	17	18	19
DC 6 n	4	1	2	3	4	5	2	3	4	5
DC 7										
DC 8										
DC AVG.										
AC 1	8.04	263.	61.3	11.7	5.89	3.88	58.4	21.9	5.90	3.81
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.		+11.3					+19.5			
AC NOISE										
POT RES.		1.5K					1.5K			

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT Mineral Butte

LINE 36E HALF S SP. 1 DATE 9-21-70

#572

SEND	5-6	1-2	2-3	3-4	4-5					
RECEIVE	6-10s	10-14s	→	→	→					
RANGE	0.1	1.0	1.0	0.1	0.1					
DC 1	2.7	1.5	2.5	4.2	3.6					
DC 2										
DC 3										
DC 4 Cm	3	3	3	3	3					
DC 5 #	20	21	22	23	24					
DC 6 n	6	3	4	5	6					
DC 7										
DC 8										
DC AVG.										
AC 1	2.88	37.2	16.3	4.98	3.51					
AC 2	0.0	0.0	0.0	0.0	0.0					
AC AVG.										
S.P.		+1.8								
AC NOISE										
POT RES.		4K								

#572

PAGE 1

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT MINERAL BUTTE

LINE 36E HALF S SP. 1 DATE 9-21-70

SEND	4-5	5-6	4-5	5-6	3-4	4-5	5-6	2-3	3-4	4-5
RECEIVE	CAL	10-14N	6-10N	→	2-6N	→	→	2S-2N	→	→
RANGE	10X100	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300
VOLTAGE	120	380	370	380	320	370	380	410	320	370
CURRENT	1.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
SEND	5-6	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5
RECEIVE	2S-2N	2-6S	→	→	→	→	6-10S	→	→	→
RANGE	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300
VOLTAGE	380	400	410	310	360	370	400	410	310	360
CURRENT	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0

FREQUENCIES 3 0.3

SENDER NO. 66445

OPERATOR PAT McMANUS

RECEIVER NO. 20693-R

OPERATOR BILL FREEMAN

COMMENTS:

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

#572

PAGE 2

PROJECT Mineral Butte

LINE 36 E HALF S SP. 1 DATE 9-21-70

SEND	5-6	1-2	2-3	3-4	4-5					
RECEIVE	6-10s	10-14s	→	→	→					
RANGE	10X300	10X300	10X300	10X300	10X300					
VOLTAGE	370	400	410	310	360					
CURRENT	3.0	3.0	3.0	3.0	3.0					
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES 3 0.3

SENDER NO. 66445

OPERATOR Pat McMahus

RECEIVER NO. 20693R

OPERATOR Bill Freeman

COMMENTS:

Job 572, Line 36E, Sp1, N½, 9/21/70 400.

For Col Card Duplicate Line 36E, Sp1, S½ Col Card

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Mineral Butte #572
LINE 36E HALF N SP. 1 DATE 9-21-70

SEND	S.P.	S.P.	4-5	3-4	2-3	1-2	5-6	4-5	3-4	2-3
RECEIVE	14-18N	18-22N	22-26N	→	→	→	26-30N	→	→	→
RANGE			10	1.0	0.1	0.1	10	1.0	0.1	0.1
DC 1			1.2	2.8	3.9	2.9	0.9	2.0	3.1	3.7
DC 2										
DC 3										
DC 4 Cm			3	3	3	3	3	3	3	3
DC 5 #			1	2	3	4	5	6	7	8
DC 6 n			1	2	3	4	1	2	3	4
DC 7										
DC 8										
DC AVG.										
AC 1			107.	20.4	8.38	5.08	126.	24.7	7.73	4.42
AC 2			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.	+0.8	+13.8	-1.7				+1.2			
AC NOISE										
POT RES.	4.5K	5K	4K				4K			

572

PAGE 5

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Mineral Butte
LINE 36E HALF N SP. 1 DATE 9-21-86

SEND	1-2	5-6	4-5	3-4	2-3	1-2	5-6	4-5	3-4	2-3
RECEIVE	26-30N	30-34	→	→	→	→	34-38N	→	→	→
RANGE	0.1	1.0	0.1	0.1	0.1	0.1	1.0	0.1	0.1	0.1
DC 1	2.8	1.3	2.7	3.4	4.0	2.7	2.0	2.6	4.2	4.7
DC 2										
DC 3										
DC 4 Cm	3	3	3	3	3	3	3	3	3	3
DC 5 #	9	10	11	12	13	14	15	16	17	18
DC 6 #	5	2	3	4	5	6	3	4	5	6
DC 7										
DC 8										
DC AVG.										
AC 1	3.09	28.2	9.76	4.04	2.77	2.13	10.4	4.66	2.21	1.67
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.		−4.0					10.7			
AC NOISE										
POT RES.		4K					3K			

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Mineral Butte #572

LINE 36E HALF N SP. 1 DATE 9-21-70

PAGE 3

SEND	4-5	3-4	2-3	1-2	5-6	4-5	3-4	2-3	1-2	5-6
RECEIVE	22-26	→	→	→	26-30	→	→	→	→	30-34
RANGE	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300
VOLTAGE	360	310	400	390	360	350	300	400	390	360
CURRENT	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
SEND	4-5	3-4	2-3	1-2	5-6	4-5	3-4	2-3		
RECEIVE	30-34	→	→	→	34-38	→	→	→		
RANGE	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300		
VOLTAGE	350	300	400	390	360	350	300	400		
CURRENT	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		

FREQUENCIES 3 0.3

SENDER NO. 66445

OPERATOR Pat McManus

RECEIVER NO. 20693R

OPERATOR Bill Freeman

COMMENTS:

JOB 572 LINE 36E SP1 S1/2 9/21/70 400 FEET=DIPOLE LENGTH
CAL GROUP NO. 1

CAL CUR	PFE	AC1	AC2	AC FREQ	DC FREQ	PFE CAL	RHO CAL
1.000	0.00	97.600	0.00	3.00	.30	0.0000	1.0246

COMPUTED DATA									FIELD DATA					
POINT NO.	N	RHO	PFE	MCF	CCPFE	CCMCF	CPFE		PFE	CUR	PT.	N	AC1	AC2
1	1	66.97	1.50	22.4	1.50	22.4	0.00	**	1.50	3.00	1	1	161.000	0.00
2	1	76.99	2.10	27.3	2.10	27.3	0.00	**	2.10	3.00	2	1	184.000	0.00
3	2	52.77	3.50	66.3	3.50	66.3	0.00	**	3.50	3.00	3	2	31.100	0.00
4	1	69.60	2.30	33.0	2.30	33.0	0.00	**	2.30	3.00	4	1	166.000	0.00
5	2	51.41	3.50	68.1	3.50	68.1	0.00	**	3.50	3.00	5	2	30.300	0.00
6	3	51.75	3.50	67.6	3.38	65.2	.12	**	3.50	3.00	6	3	12.200	0.00
7	1	152.37	1.30	8.5	1.30	8.5	0.00	**	1.30	3.00	7	1	367.000	0.00
8	2	69.26	3.30	47.6	3.30	47.6	0.00	**	3.30	3.00	8	2	40.900	0.00
9	3	62.05	3.70	59.6	3.60	58.1	.10	**	3.70	3.00	9	3	14.600	0.00
10	4	67.94	3.10	45.6	2.94	43.2	.16	**	3.10	3.00	10	4	8.040	0.00
11	1	108.65	.80	7.4	.80	7.4	0.00	**	.80	3.00	11	1	263.000	0.00
12	2	102.30	1.80	17.6	1.80	17.6	0.00	**	1.80	3.00	12	2	61.300	0.00
13	3	49.77	3.80	76.3	3.67	73.7	.13	**	3.80	3.00	13	3	11.700	0.00
14	4	49.97	3.50	70.0	3.25	65.0	.25	**	3.50	3.00	14	4	5.890	0.00
15	5	57.21	2.80	48.9	2.45	42.9	.35	**	2.80	3.00	15	5	3.880	0.00
16	2	97.08	1.40	14.4	1.40	14.4	0.00	**	1.40	3.00	16	2	58.400	0.00
17	3	91.91	2.40	26.1	2.40	26.1	0.00	**	2.40	3.00	17	3	21.900	0.00
18	4	50.34	4.10	81.4	3.85	76.5	.25	**	4.10	3.00	18	4	5.900	0.00
19	5	56.67	3.70	65.3	3.35	59.1	.35	**	3.70	3.00	19	5	3.810	0.00
20	6	67.88	2.70	39.8	2.28	33.5	.42	**	2.70	3.00	20	6	2.880	0.00
21	3	154.75	1.50	9.7	1.50	9.7	0.00	**	1.50	3.00	21	3	37.200	0.00
22	4	~~220.96~~ 137	2.50	18 ~~11.3~~	2.50	11.3	0.00	**	2.50	3.00	22	4	~~26.300~~ 16.3	0.00
23	5	74.43	4.20	56.4	3.96	53.2	.24	**	4.20	3.00	23	5	4.980	0.00
24	6	83.46	3.60	43.1	3.28	39.3	.32	**	3.60	3.00	24	6	3.510	0.00

JOB 572 LINE 36E SP1 N1/2 9/21/70 400 FEET=DIPOLE LENGTH
CAL GROUP NO. 2

CAL CUR	PFE	AC1	AC2	AC FREQ	DC FREQ	PFE CAL	RHO CAL
1.000	0.00	97.600	0.00	3.00	.30	0.0000	1.0246

COMPUTED DATA									FIELD DATA					
POINT NO.	N	RHO	PFE	MCF	CCPFE	CCMCF	CPFE		PFE	CUR	PT.	N	AC1	AC2
1	1	44.38	1.20	27.0	1.20	27.0	0.00	**	1.20	3.00	1	1	107.000	0.00
2	2	34.38	2.80	81.4	2.71	78.7	.09	**	2.80	3.00	2	2	20.400	0.00
3	3	35.68	3.90	109.3	3.69	103.4	.21	**	3.90	3.00	3	3	8.380	0.00
4	4	42.85	2.90	67.7	2.59	60.5	.31	**	2.90	3.00	4	4	5.080	0.00
5	1	5.21	.90	172.7	.54	104.3	.36	**	.90	3.00	5	1	12.600	0.00
6	2	41.30	2.00	48.4	1.93	46.7	.07	**	2.00	3.00	6	2	24.700	0.00
7	3	32.66	3.10	94.9	2.86	87.6	.24	**	3.10	3.00	7	3	7.730	0.00
8	4	37.57	3.70	98.5	3.33	88.6	.37	**	3.70	3.00	8	4	4.420	0.00
9	5	45.56	2.80	61.5	2.33	51.0	.47	**	2.80	3.00	9	5	3.090	0.00
10	2	46.83	1.30	27.8	1.30	27.8	0.00	**	1.30	3.00	10	2	28.200	0.00
11	3	41.08	2.70	65.7	2.53	61.5	.17	**	2.70	3.00	11	3	9.760	0.00
12	4	34.24	3.40	99.3	2.98	87.0	.42	**	3.40	3.00	12	4	4.040	0.00
13	5	41.32	4.00	96.8	3.46	83.7	.54	**	4.00	3.00	13	5	2.770	0.00
14	6	50.21	2.70	53.8	2.06	41.1	.64	**	2.70	3.00	14	6	2.130	0.00
15	3	43.48	2.00	46.0	1.84	42.3	.16	**	2.00	3.00	15	3	10.400	0.00
16	4	39.19	2.60	66.3	2.25	57.4	.35	**	2.60	3.00	16	4	4.660	0.00
17	5	33.03	4.20	127.1	3.47	104.9	.73	**	4.20	3.00	17	5	2.210	0.00
18	6	40.13	4.70	117.1	3.84	95.7	.86	**	4.70	3.00	18	6	1.670	0.00

Job 572, LINE 32E, Sp 1, N½, 9/18/70 400.

572

PAGE 1

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Mineral Butte
LINE 32 E HALF N SP. 1 DATE 9-18-76

SEND	3-4	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2
RECEIVE	CALI	14-18N	→	18-22N	→	→	22-26N	→	→	→
RANGE	1.0	10	1.0	10	1.0	0.1	10	1.0	0.1	0.1
DC 1	0.0	2.4	4.5	1.7	4.4	4.1	1.0	2.6	4.3	3.7
DC 2										
DC 3										
DC 4 Pw	1.0	3	3	3	3	3	3	3	3	3
DC 5 E		1	2	3	4	5	6	7	8	9
DC 6 W		1	2	1	2	3	1	2	3	4
DC 7										
DC 8										
DC AVG.										
AC 1	97.7	129.	25.3	146.	16.9	9.30	136.	28.5	7.01	5.45
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.	3.0	+23.5		+6.6			+8.8			
AC NOISE	0.3									
POT RES.		2K		3K			2K			

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

572

PAGE 2

PROJECT MINERAL BUTTE
LINE 32 E HALF N SP. 1 DATE 9-18-70

SEND	5-6	4-5	3-4	2-3	1-2	5-6	4-5	3-4	2-3	1-2
RECEIVE	26-30 N	→				30-34N	→			
RANGE	1.0	1.0	1.0	0.1	0.1	1.0	1.0	0.1	0.1	0.1
DC 1	1.3	1.3	3.5	4.7	3.8	0.8	1.6	3.3	4.6	3.9
DC 2										
DC 3										
DC 4 Gen	3	3	3	3	3	3	3	3	3	3
DC 5 #	10	11	12	13	14	15	16	17	18	19
DC 6 "	1	2	3	4	5	2	3	4	5	6
DC 7										
DC 8										
DC AVG.										
AC 1	103.	32.4	12.0	4.01	3.57	28.6	13.5	6.12	2.39	2.30
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.	+7.7					+0.1				
AC NOISE										
POT RES.	2.5K					2.5K				

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT Minerac Butte 572

LINE 32E HALF N SP. 1 DATE 9-18-70

PAGE 3

SEND	5-6	4-5	3-4	2-3						
RECEIVE	34-38 N									
RANGE	1.0	0.1	0.1	0.1						
DC 1	2.1	2.7	4.5	5.8						
DC 2										
DC 3										
DC 4 Cu	3	3	3	3						
DC 5 #	20	21	22	23						
DC 6 M	3	4	5	6						
DC 7										
DC 8										
DC AVG.										
AC 1	10.7	6.12	3.17	1.39						
AC 2	0.0	0.0	0.0	0.0						
AC AVG.										
S.P.	+ 0.0									
AC NOISE										
POT RES.	3.5K									

572

PAGE 1

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT MINERAL BUTTE

LINE 32E HALF N SP. 1 DATE 9-18-7

SEND	3-4	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2
RECEIVE	CAL	14-18N	→	18-22N	→	→	22-26N	→	→	→
RANGE	10X100	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300
VOLTAGE	160	750	560	500	740	550	290	500	740	540
CURRENT	1.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
SEND	5-6	4-5	3-4	2-3	1-2	5-6	4-5	3-4	2-3	1-2
RECEIVE	26-30N	→	→	→	→	30-34N	→	→	→	→
RANGE	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300
VOLTAGE	230	290	500	720	540	220	280	490	720	540
CURRENT	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0

FREQUENCIES 3 0.3

SENDER NO. 66445

OPERATOR PAT MC MANUS

RECEIVER NO. 20693-R

OPERATOR BILL FREEMAN

COMMENTS:

572

PAGE 2

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Mineral Butte

LINE 32N HALF N SP. 1 DATE 9-18-70

SEND	5-6	4-5	3-4	2-3						
RECEIVE	34-38	→	→	→						
RANGE	10X300	10X300	10X300	10X300						
VOLTAGE	220	280	490	710						
CURRENT	3.0	3.0	3.0	3.0						
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES 3 0.3

SENDER NO. 66445

OPERATOR Pat McManus

RECEIVER NO. 20693R

OPERATOR Bill Freeman

COMMENTS:

Job 572, LINE 32E, Sp 1, S½, 9/18/20 400.

For Col Card: Duplicate LINE 32E, Sp 1, N½ Col Card

572

PAGE 4

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT MINERAL BUTTE
LINE 32 E HALF 5 SP. 1 DATE 9-18-76

SEND	S.P.	4-5	5-6	3-4	4-5	5-6	2-3	3-4	4-5	5-6
RECEIVE	10-14N	6-10N	→	2-6N	→	→	2-2N	→	→	→
RANGE		10	1.0	10	1.0	0.1	10	1.0	1.0	0.1
DC 1		2.5	4.4	2.9	4.5	4.0	2.1	4.6	3.6	2.8
DC 2										
DC 3										
DC 4 Pin		3	3	3	3	3	3	3	3	
DC 5 #		1	2	3	4	5	6	7	8	9
DC 6 "		1	2	1	2	3	1	2	3	4
DC 7										
DC 8										
DC AVG.										
AC 1		109.	16.0	166.	22.1	8.63	213.	32.0	12.9	7.21
AC 2		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.	-4.4	+3.8		+9.4			+16.7			
AC NOISE										
POT RES.	4K	4K		4.5K			3.5K			

572

PAGE 5

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Mineral Butte
LINE 32E HALF 5 SP. 1 DATE 9-18-70

SEND	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5	5-6
RECEIVE	2-6s	→				6-10s	→			
RANGE	1.0	1.0	1.0	0.1	0.1	1.0	1.0	0.1	0.1	0.1
DC 1	1.2	3.8	4.9	3.5	2.6	1.6	4.2	4.7	3.0	2.4
DC 2										
DC 3										
DC 4 Cm	3	3	3	3	3	3	3	3	3	3
DC 5 #	10	11	12	13	14	15	16	17	18	19
DC 6 "	1	2	3	4	5	2	3	4	5	6
DC 7										
DC 8										
DC AVG.										
AC 1	440.	33.9	12.3	6.67	4.13	74.9	10.6	5.28	3.41	2.27
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.	+13.5					-2.1				
AC NOISE										
POT RES.	1K					2.5K				

572

PAGE 6

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT MINERAL BUTTE
LINE 32 E HALF 5 SP. 1 DATE 9-18-70

SEND	1-2	2-3	3-4	4-5						
RECEIVE	10-14	→	→	→						
RANGE	1.0	0.1	0.1	0.1						
DC 1	2.2	4.9	5.2	3.9						
DC 2										
DC 3										
DC 4 Pin	3	3	3	3						
DC 5 #	20	21	22	23						
DC 6 n	3	4	5	6						
DC 7										
DC 8										
DC AVG.										
AC 1	34.7	6.27	3.76	2.69						
AC 2	0.0	0.0	0.0	0.0						
AC AVG.										
S.P.	-6.4									
AC NOISE										
POT RES.	3K									

572

PAGE 3

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Mineral Butte

LINE 32E HALF S SP. 1 DATE 9-18-70

SEND	4-5	5-6	3-4	4-5	5-6	2-3	3-4	4-5	5-6	1-2
RECEIVE	6-10N	→	2-6N	→	→	2-2N	→	→	→	2-6S
RANGE	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300
VOLTAGE	280	220	300	280	220	520	300	280	220	520
CURRENT	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
SEND	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5	5-6	1-2
RECEIVE	2-6S	→	→	→	6-10S	→	→	→	→	10-14S
RANGE	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300
VOLTAGE	520	300	280	220	510	500	300	280	220	510
CURRENT	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0

FREQUENCIES 3 0.3

SENDER NO. 66445

OPERATOR PAT McMAHOUS

RECEIVER NO. 20693R

OPERATOR BILL FREEMAN

COMMENTS:

572

PAGE 4

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT MINERAL BUTTE

LINE 32E HALF 5 SP. 1 DATE 9-18-2

SEND	2-3	3-4	4-5							
RECEIVE	10-14s	→								
RANGE	10X300	10 x 300	10 X 300							
VOLTAGE	500	300	280							
CURRENT	3.0	3.0	3.0							
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES 3 0.3

SENDER NO. 66445

OPERATOR PAT MCMANUS

RECEIVER NO. 20693 R

OPERATOR BILL FREEMAN

COMMENTS:

JOB 572 LINE 32E SP 1 N 1/2 9/18/70 400 FEET=DIPOLE LENGTH
CAL GROUP NO. 1

CAL CUR	PFE	AC1	AC2	AC FREQ	DC FREQ	PFE CAL	RHO CAL
1.000	0.00	97.700	0.00	3.00	.30	0.0000	1.0235

COMPUTED DATA									FIELD DATA					
POINT NO.	N	RHO	PFE	MCF	CCPFE	CCMCF	CPFE		PFE	CUR	PT.	N	AC1	AC2
1	1	54.08	2.40	44.4	2.40	44.4	0.00	**	2.40	3.00	1	1	129.000	0.00
2	2	43.30	4.50	103.9	4.50	103.9	0.00	**	4.50	3.00	2	2	25.300	0.00
3	1	60.79	1.70	28.0	1.70	28.0	0.00	**	1.70	3.00	3	1	146.000	0.00
4	2	28.89	4.40	152.3	4.28	148.1	.12	**	4.40	3.00	4	2	16.900	0.00
5	3	39.64	4.10	103.4	3.92	98.9	.18	**	4.10	3.00	5	3	9.300	0.00
6	1	56.24	1.00	17.8	1.00	17.8	0.00	**	1.00	3.00	6	1	136.000	0.00
7	2	47.89	2.60	54.3	2.60	54.3	0.00	**	2.60	3.00	7	2	28.500	0.00
8	3	29.93	4.30	143.6	4.03	134.7	.27	**	4.30	3.00	8	3	7.010	0.00
9	4	46.28	3.70	80.0	3.42	73.9	.28	**	3.70	3.00	9	4	5.450	0.00
10	1	42.72	1.30	30.4	1.30	30.4	0.00	**	1.30	3.00	10	1	103.000	0.00
11	2	53.75	1.30	24.2	1.30	24.2	0.00	**	1.30	3.00	11	2	32.400	0.00
12	3	50.85	3.50	68.8	3.37	66.3	.13	**	3.50	3.00	12	3	12.000	0.00
13	4	34.38	4.70	136.7	4.28	124.5	.42	**	4.70	3.00	13	4	4.010	0.00
14	5	53.10	3.80	71.6	3.41	64.3	.39	**	3.80	3.00	14	5	3.570	0.00
15	2	47.21	.80	16.9	.80	16.9	0.00	**	.80	3.00	15	2	28.600	0.00
16	3	56.16	1.60	28.5	1.49	26.5	.11	**	1.60	3.00	16	3	13.500	0.00
17	4	51.77	3.30	63.7	3.06	59.1	.24	**	3.30	3.00	17	4	6.120	0.00
18	5	35.82	4.60	128.4	3.94	110.0	.66	**	4.60	3.00	18	5	2.390	0.00
19	6	54.79	3.90	71.2	3.33	60.9	.57	**	3.90	3.00	19	6	2.300	0.00
20	3	44.73	2.10	47.0	1.95	43.5	.15	**	2.10	3.00	20	3	10.700	0.00
21	4	51.47	2.70	52.5	2.46	47.8	.24	**	2.70	3.00	21	4	6.120	0.00
22	5	47.47	4.50	94.8	4.05	85.3	.45	**	4.50	3.00	22	5	3.170	0.00
23	6	33.72	5.80	172.0	4.72	139.9	1.08	**	5.80	3.00	23	6	1.390	0.00

JOB 572 LINE 32E SP1 S 1/2 9/18/70 400 FEET=DIPOLE LENGTH
CAL GROUP NO. 1

CAL CUR	PFE	AC1	AC2	AC FREQ	DC FREQ	PFE CAL	RHO CAL
1.000	0.00	97.700	0.00	3.00	.30	0.0000	1.0235

COMPUTED DATA									FIELD DATA					
POINT NO.	N	RHO	PFE	MCF	CCPFE	CCMCF	CPFE		PFE	CUR	PT.	N	AC1	AC2
1	1	45.74	2.50	54.7	2.50	54.7	0.00	**	2.50	3.00	1	1	109.000	0.00
2	2	27.36	4.40	160.8	4.27	156.1	.13	**	4.40	3.00	2	2	16.000	0.00
3	1	69.93	2.90	41.5	2.90	41.5	0.00	**	2.90	3.00	3	1	166.000	0.00
4	2	37.82	4.50	119.0	4.42	116.8	.08	**	4.50	3.00	4	2	22.100	0.00
5	3	36.75	4.00	108.9	3.80	103.4	.20	**	4.00	3.00	5	3	8.630	0.00
6	1	89.04	2.10	23.6	2.10	23.6	0.00	**	2.10	3.00	6	1	213.000	0.00
7	2	54.82	4.60	83.9	4.60	83.9	0.00	**	4.60	3.00	7	2	32.000	0.00
8	3	54.72	3.60	65.8	3.48	63.7	.12	**	3.60	3.00	8	3	12.900	0.00
9	4	60.69	2.80	46.1	2.61	43.0	.19	**	2.80	3.00	9	4	7.210	0.00
10	1	182.31	1.20	6.6	1.20	6.6	0.00	**	1.20	3.00	10	1	440.000	0.00
11	2	57.63	3.80	65.9	3.80	65.9	0.00	**	3.80	3.00	11	2	33.900	0.00
12	3	52.83	4.90	92.8	4.78	90.5	.12	**	4.90	3.00	12	3	12.300	0.00
13	4	56.53	3.50	61.9	3.29	58.2	.21	**	3.50	3.00	13	4	6.670	0.00
14	5	60.72	2.60	42.8	2.28	37.5	.32	**	2.60	3.00	14	5	4.130	0.00
15	2	124.62	1.60	12.8	1.60	12.8	0.00	**	1.60	3.00	15	2	74.900	0.00
16	3	45.22	4.20	92.9	4.05	89.5	.15	**	4.20	3.00	16	3	10.600	0.00
17	4	45.27	4.70	103.8	4.41	97.5	.29	**	4.70	3.00	17	4	5.280	0.00
18	5	50.33	3.00	59.6	2.59	51.4	.41	**	3.00	3.00	18	5	3.410	0.00
19	6	53.29	2.40	45.0	1.81	34.0	.59	**	2.40	3.00	19	6	2.270	0.00
20	3	145.19	2.20	15.2	2.20	15.2	0.00	**	2.20	3.00	20	3	34.700	0.00
21	4	53.86	4.90	91.0	4.67	86.8	.23	**	4.90	3.00	21	4	6.270	0.00
22	5	56.68	5.20	91.7	4.85	85.5	.35	**	5.20	3.00	22	5	3.760	0.00
23	6	64.08	3.90	60.9	3.44	53.7	.46	**	3.90	3.00	23	6	2.690	0.00

572

PAGE 7

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT MINERAL BUTTE
LINE 0 HALF 5 SP. 2 DATE 9-25-70

SEND	4-5	2-3	3-4	4-5	5-6	3-4	4-5	5-6	4-5	5-6
RECEIVE	CAL	22-26	→			1-2	→		2-3	→
RANGE	1.0					10	1.0			
DC 1	-0.1					1.3	2.0			
DC 2										
DC 3										
DC 4										
DC 5										
DC 6										
DC 7										
DC 8										
DC AVG.										
AC 1	97.3					234.	62.5			
AC 2						0.0	0.0			
AC AVG.										
S.P.										
AC NOISE										
POT RES.										

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT _____

LINE _____ HALF _____ SP. _____ DATE _____

SEND	5-6	4-5	3-4	2-3	1-2	5-6	4-5	3-4	2-3	1-2
RECEIVE	3-4	46-50	→	→	→	50-54	→	→	→	→
RANGE										
DC 1										
DC 2										
DC 3										
DC 4										
DC 5										
DC 6										
DC 7										
DC 8										
DC AVG.										
AC 1										
AC 2										
AC AVG.										
S.P.										
AC NOISE										
POT RES.										

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT MINERAL BUTTE 572
LINE 0 HALF ____ SP. ____ DATE 9-25-72

PAGE 9

SEND	5-6	4-5	3-4	2-3	5-6	4-5	3-4			
RECEIVE	54-58	→			58-62	→				
RANGE										
DC 1										
DC 2										
DC 3										
DC 4										
DC 5										
DC 6										
DC 7										
DC 8										
DC AVG.										
AC 1										
AC 2										
AC AVG.										
S.P.										
AC NOISE										
POT RES.										

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Mineral Butte

LINE 0 HALF W SP. 2 DATE 9-25-

SEND	CAL	2-3	3-4	4-5	5-6	3-4	4-5	5-6	4-5	5-6
RECEIVE	4-5	22-26	→	→	→	26-30	→	→	30-34	→
RANGE	10X100					10X300	10X300			
VOLTAGE	200					520	600			
CURRENT	1.0					3.0	3.0			
SEND	5-6	4-5	3-4	2-3	1-2	5-6	4-5	3-4	2-3	1-2
RECEIVE	34-38	46-50	→	→	→	50-54	→	→	→	→
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES 3 0.3

SENDER NO. 66445

OPERATOR PAT McMANUS

RECEIVER NO. 20693R

OPERATOR BILL FREEMAN

COMMENTS:

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Mineral Butte

LINE 0 HALF W SP. 2 DATE 9-25-70

PAGE 6

SEND	5-6	4-5	3-4	2-3	1-2	5-6	4-5	3-4	2-3	
RECEIVE	57-58					58-62				
RANGE										
VOLTAGE										
CURRENT										
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES 3 0.3

SENDER NO. 6644 S

OPERATOR Pat McMinus

RECEIVER NO. 20623R

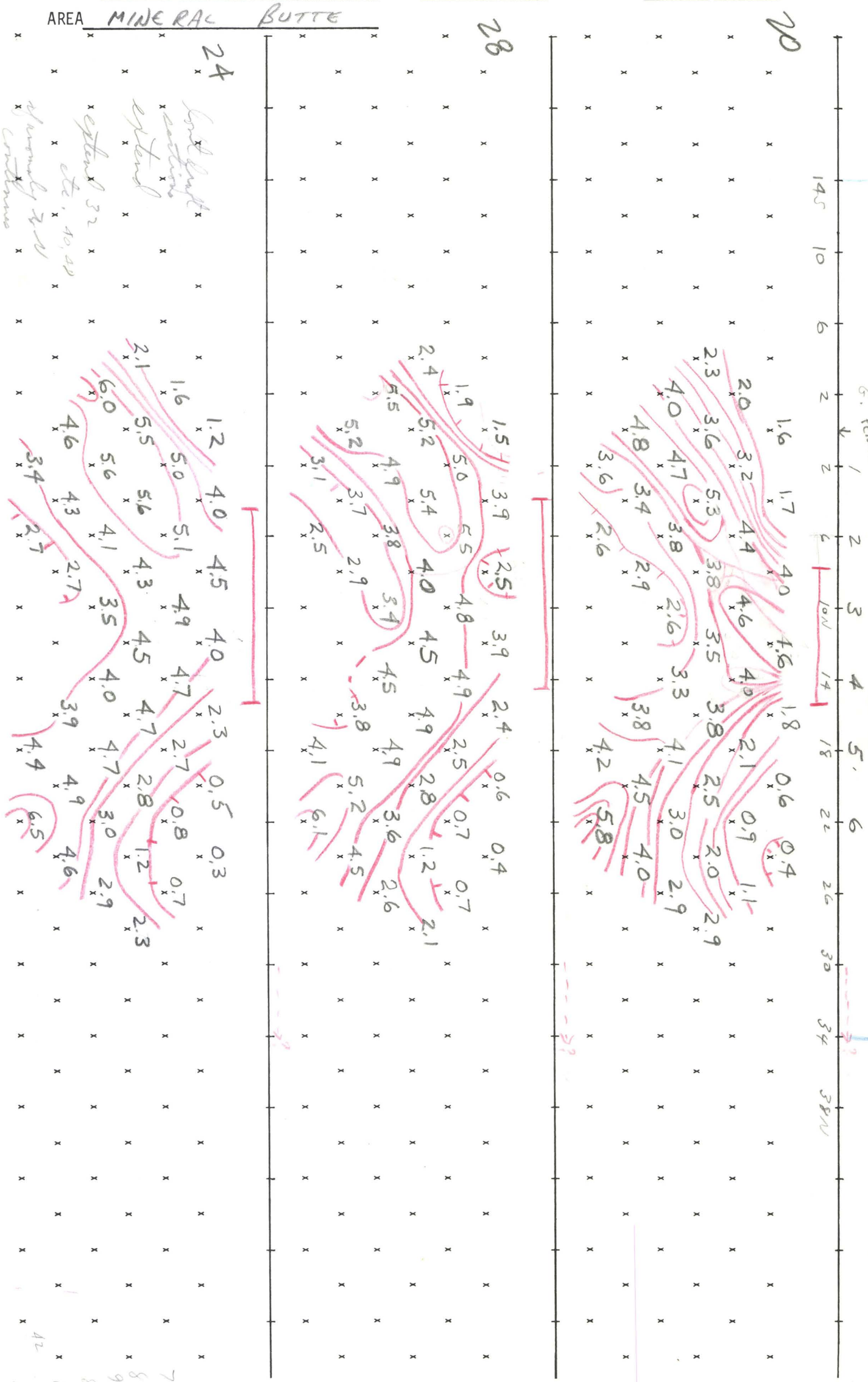
OPERATOR Bill Freeman

COMMENTS:

JOB# _____ LINE# 20, 24, 28 SP _____ a = 400' LOOKING WEST

CLIENT NORANDEX DATE _____ FREQUENCIES 3 & 0.3 Hz

AREA MINERAL BUTTE

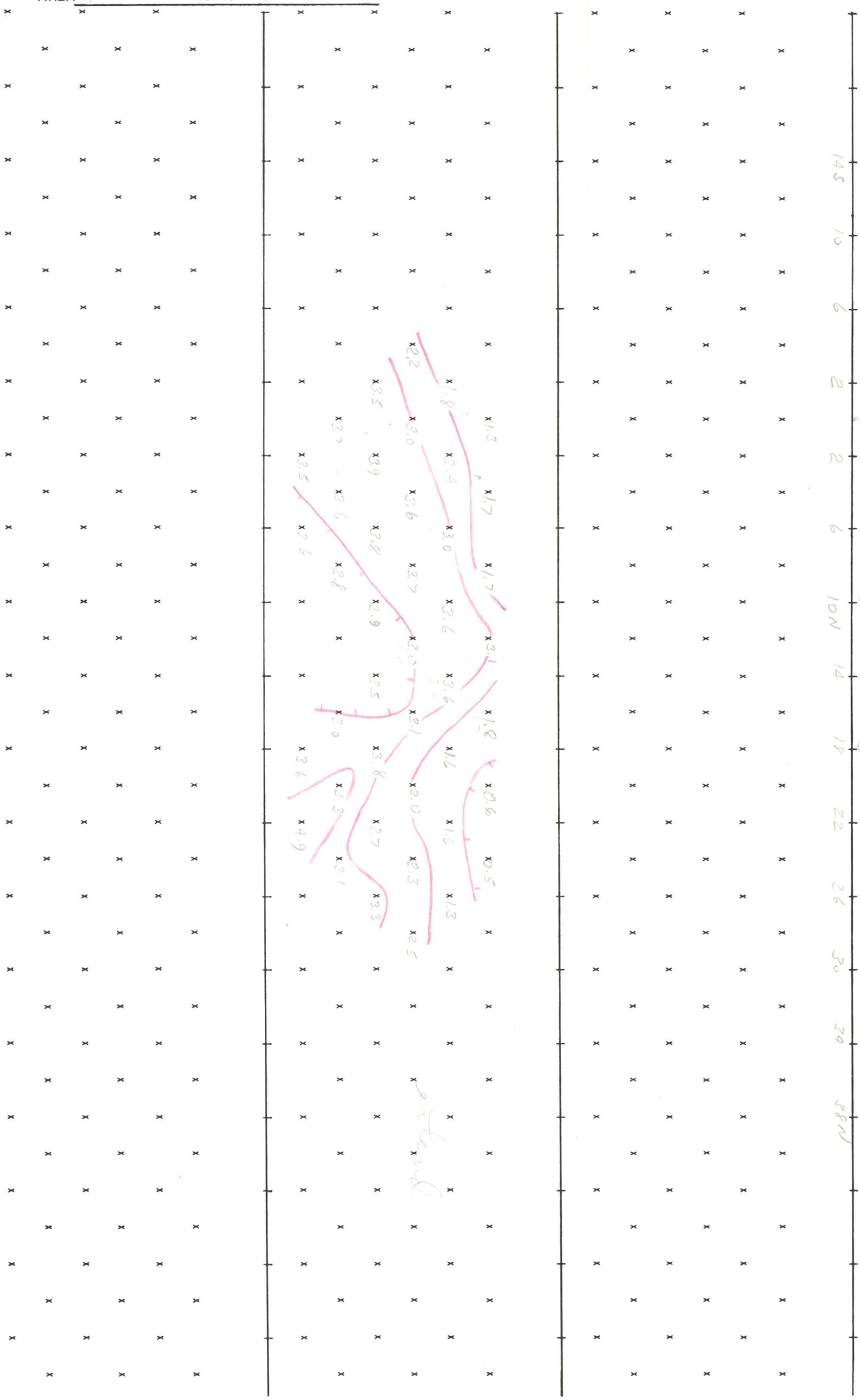


THIS IS A MODERATE TO STRONG ANOMALY; BUT BETTER CHECK A FEW SURFACE ROCKS FOR I.P. EFFECT. A FEW DRILL HOLES IN THIS SAME AREA HAS NOT ENCOUNTERED ANY SIGNIFICANT COPPER! — QUOTE FROM MR. RODNEY

JOB# 572 LINE# 16E SP 1 a = 900' LOOKING West

CLIENT Normandy Inc. DATE Sept. 78 FREQUENCIES 2.3 & 3.0 Hz

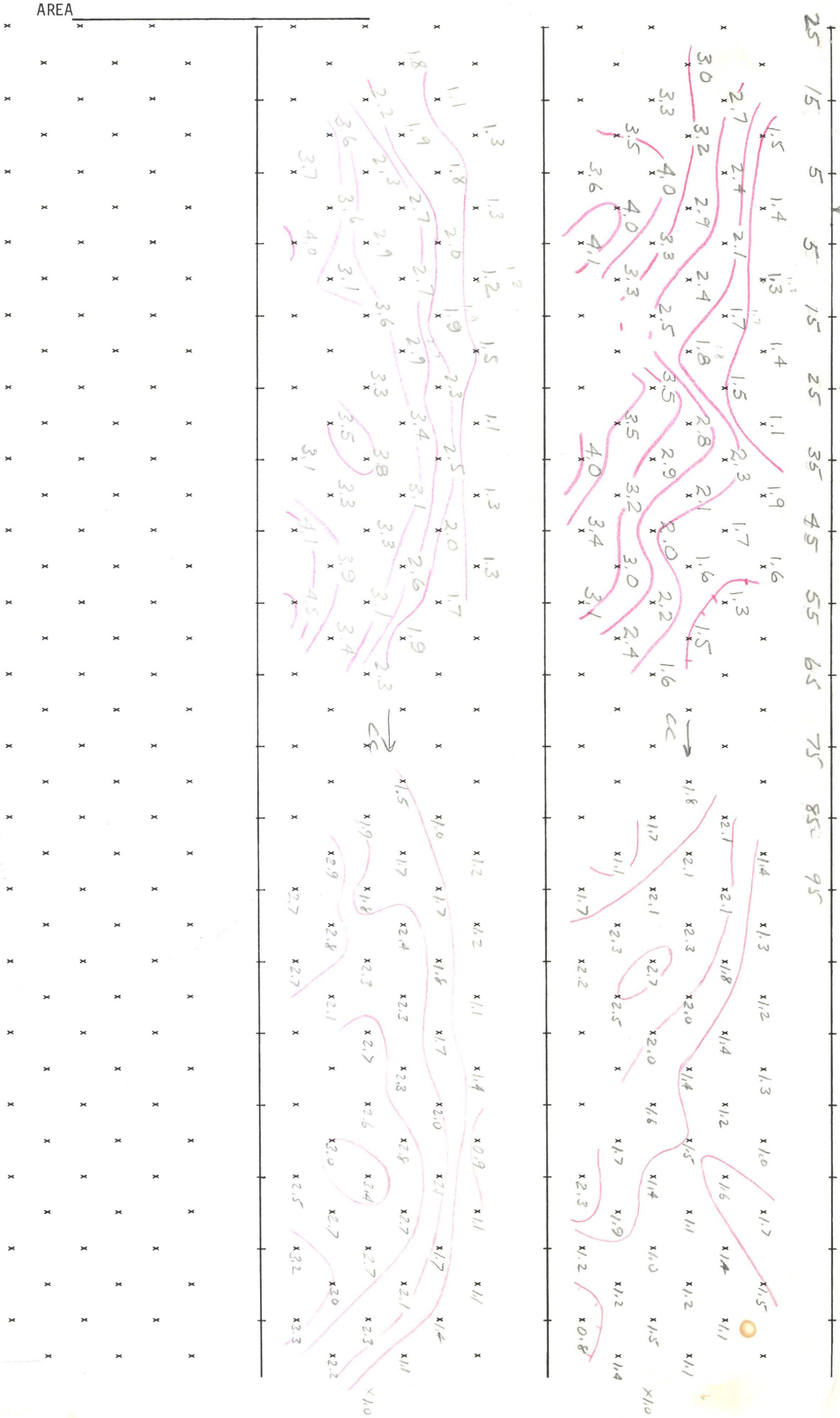
AREA Mineral Butte



JOB#_____ LINE# 28W SP 1 a = 1000' LOOKING_____

CLIENT_____ DATE_____ FREQUENCIES_____ & _____ Hz

AREA_____



27 → 3

42
42
42
42
28

196

4 → 10

45
45
45
45
45
38

263

263
196
269
258
168

1154

230.8

231
46

46

1154
168
986
1182
2168

G.P. Priority

~~24E 9N~~ 1

~~0 E/W 4N~~ 2

~~24E 35N~~ 3

~~32E 10N~~ 4

~~12W 4N~~ 5

~~12E 12N~~

12E 31N 6

572

Existing DH between lines 9E 8E

150' S = + Fe_3O_4 heavy

N 32N

1000' high

20N 12E

11E

sh lt sch 0 – 187' pat
S=

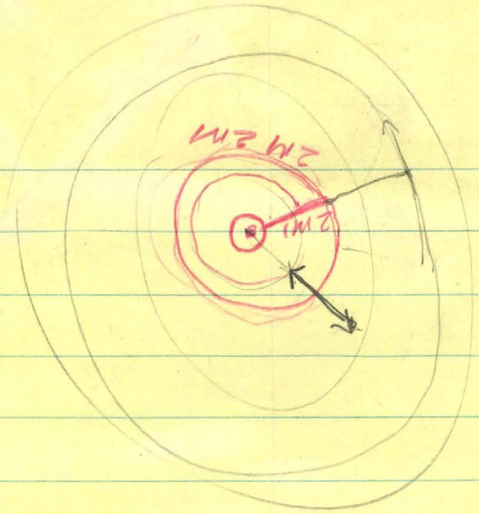
200–290' breccia

12E 57. Py
12N

390' ½%

Line	Sta
0	8N
7W	12N
17W	9N

572



275 = 6 2 miles / 2π

Job 572

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PAGE

PROJECT Line Measured - Fence to 1st dipole

LINE ____ HALF ____ SP. ____ DATE ____

SEND	LINE:	24W	20W	16W	8W	4E	16E	20E	24E	32E
RECEIVE		165	100	200	185	210	275	250	170	200
RANGE										
VOLTAGE										
CURRENT										
SEND	36E	40E	44E							
RECEIVE	200	200	200							
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES ____ ____

SENDER NO.

OPERATOR

RECEIVER NO.

OPERATOR

COMMENTS:

22 lines

20 @ 400' = a
2 @ 1000' = a

29 spreads

208 / 295 - 2939

Line	P - P S	P - P N	S - S S	S - S N
32 W	14	42	4	30
28 W	45	95	20	65
24 W	14	38	4	28
20 W	14	38	4	28
16 W	14	38	4	28
12 W	14	66	4	56
8 W	14	42	4	30
4 W	14	42	4	30
0	14	62	4	52
4 E	14	62	4	50
8 E	14	62	4	50
12 E	14	62	4	50
16 E	14	38	4	28
20 E	14	38	4	28
24 E	14	62	4	52
28 E	14	38	4	28
32 E	14	38	4	28
36 E	14	38	4	28
40 E	14	62	4	52
44 E	14	38	4	28
52 E	14	34	4	26
56 E	45	95	20	65
	370	1130	120	860
	1500		980	

#572

9000

150,000'

28.4 miles

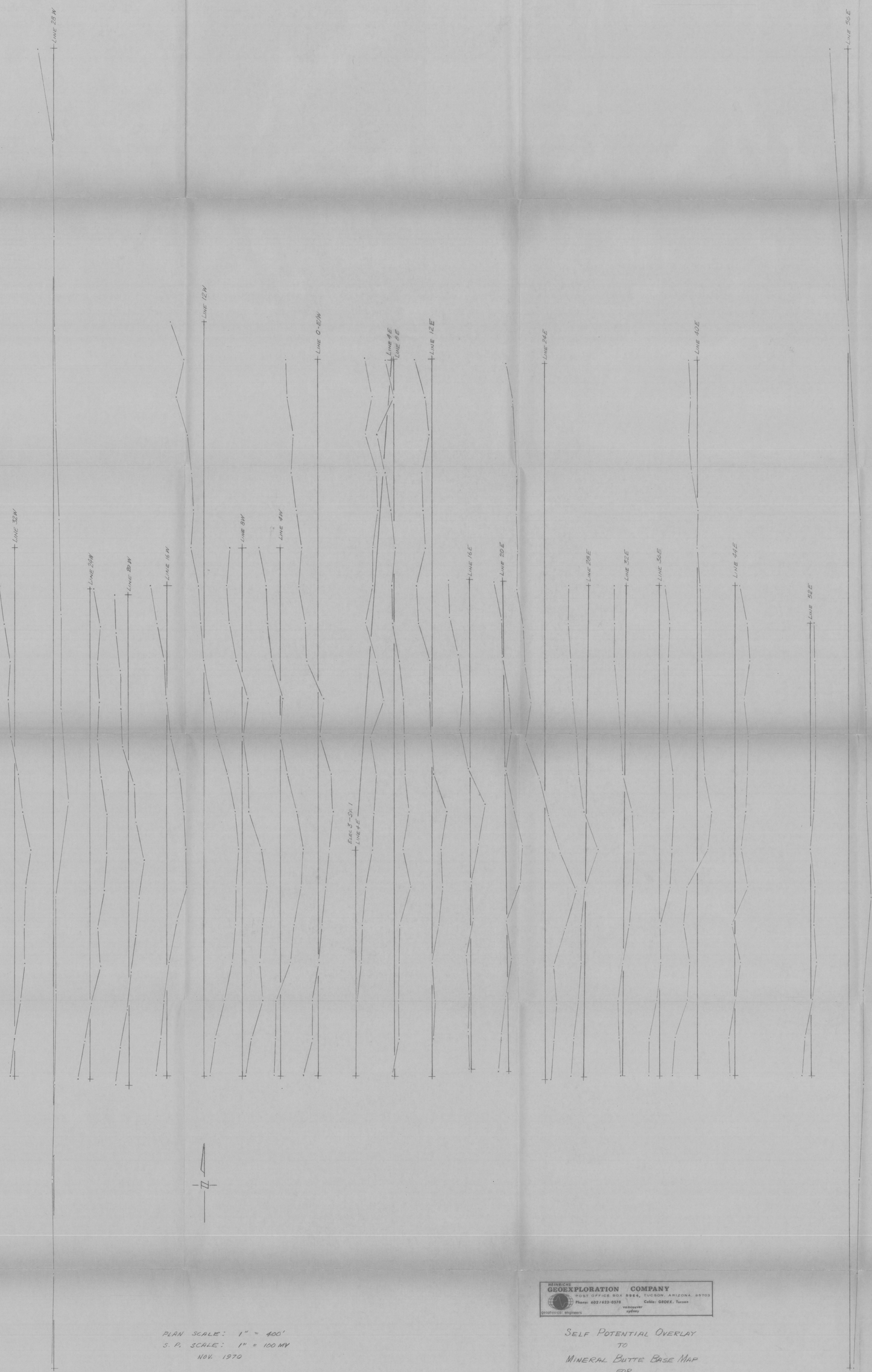
P-P

98000'

18.6 miles

S-S

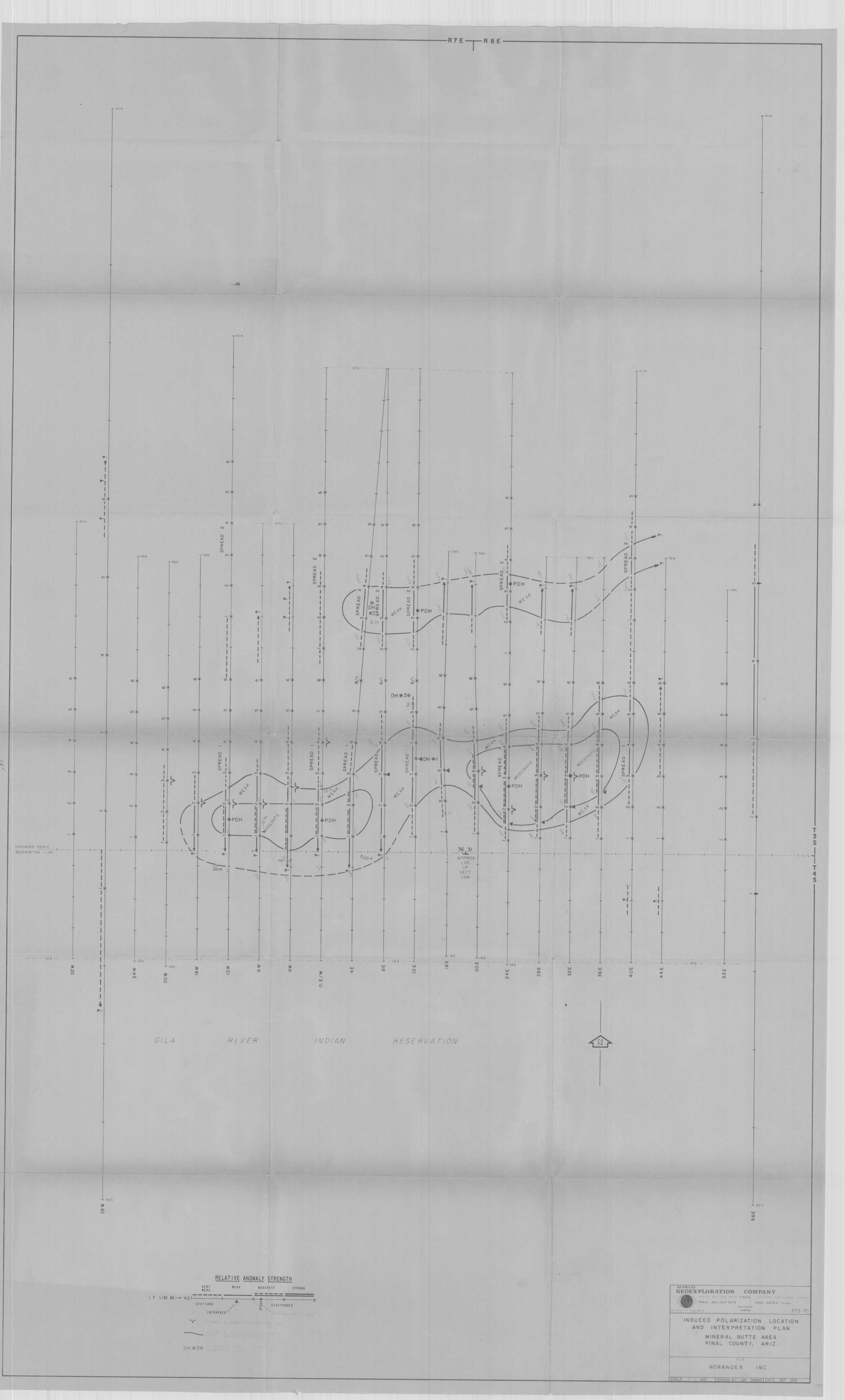
plotted late



PLAN SCALE: 1" = 400'
S. P. SCALE: 1" = 100 MV
NOV. 1970

HEINRICHS
GEOEXPLORATION COMPANY
geophysical engineers
POST OFFICE BOX 8944, TUCSON, ARIZONA, 85703
Phone: 602/623-0578 Cable: GEOEX, Tucson
vancouver
sydney

SELF POTENTIAL OVERLAY
TO
MINERAL BUTTE BASE MAP
FOR
NORANDEX INC.



HEINRICHS
GEOEXPLORATION COMPANY
POST OFFICE BOX 5964 TUCSON, ARIZONA 85703
Phone: 602/623-0578 Cable: GEOEX, Tucson
vancouver
sydney
geophysical engineers

572-70

INDUCED POLARIZATION LOCATION AND INTERPRETATION PLAN

MINERAL BUTTE AREA
PINAL COUNTY, ARIZ.

FOR

NORANDEX INC.

SCALE 1" = 400' | DRAWN BY: JAY DOWNS | DATE: OCT. 1970

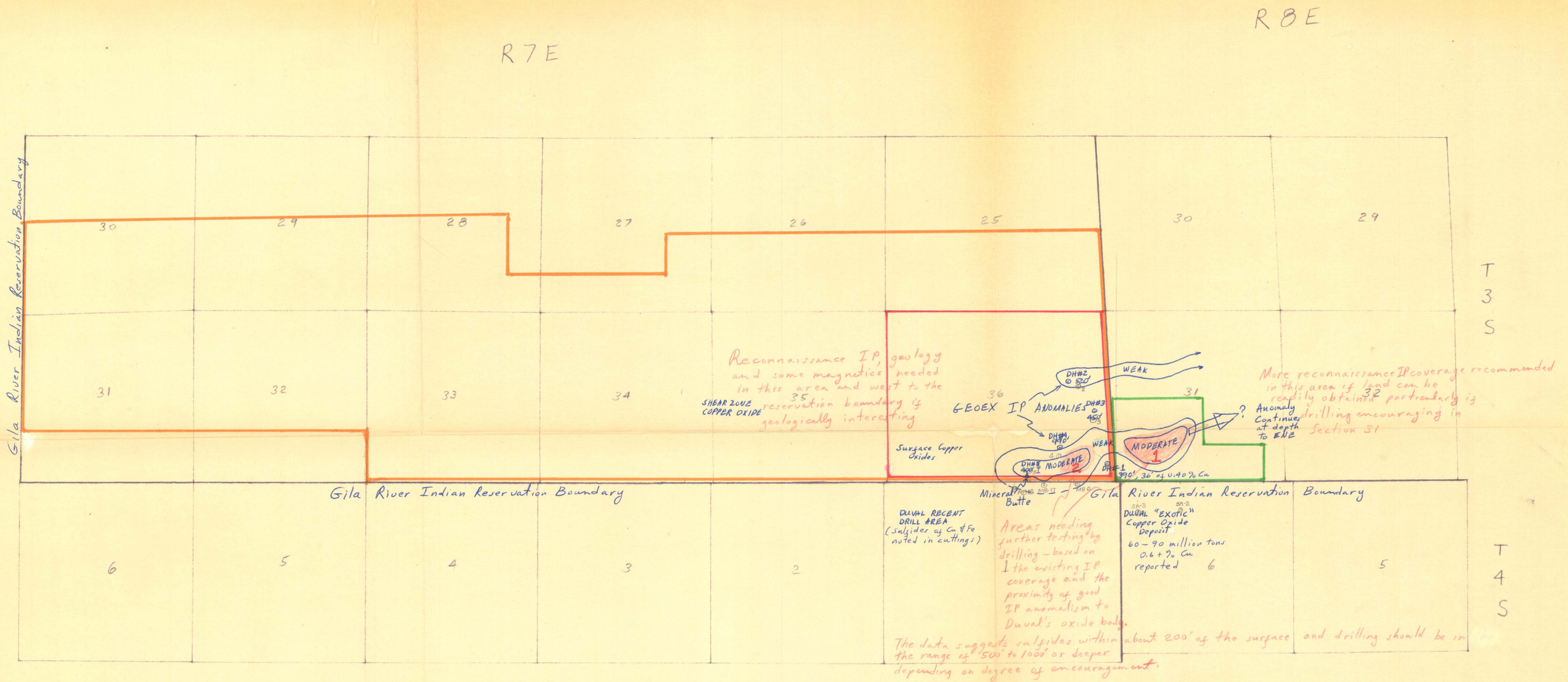
Rodney Lee Hatler 164 Acres
Orange Borders - appears close title, parking charges approximate boundary
Red Borders - Expired lease to November 1970 by Hatler
Green Borders - Hatler claims but title needs further checking
Footing the bill for assessments 1969 - probably valid
If Hamilton is your GEOEX subsidiary for November 1970
Bill Doe, Land Man, Hamilton Oil Corporation
needs to be path-mapped

SKETCH MAP
OF
MINERAL BUTTE AREA
PINAL COUNTY
ARIZONA

Scale: 1" = 2000'

Mitchell Budzitski
October, 1972

HEINRICHS GEOEXPLORATION CO.
P. O. BOX 5964
TUCSON, ARIZONA 85703



Rodney land status: 164 claims
Orange Border: apparent clear title mining claims approximate boundary
Red Border: Expired lease to Noranda 1970 by Rodney
Green Border: Rodney claims but title needs further checking
Rodney has held this area since 1955 – probably valid
IP Anomalism is from GEOEX survey for Noranda in 1970
Drill Holes based on coordinates on Noranda's drill logs – needs field verification

N

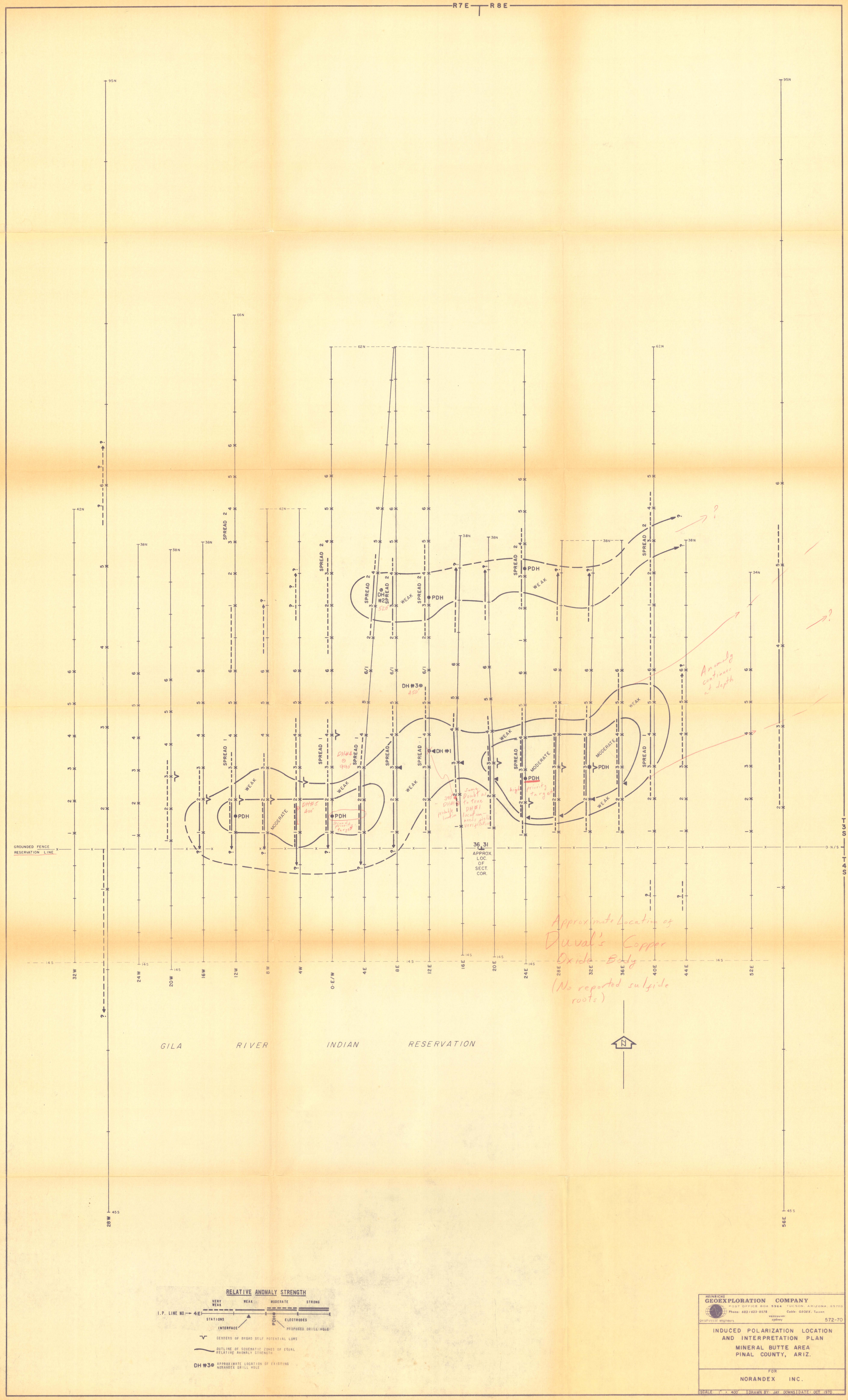
map information based on GEOEX file data & Mr. Dibble's sketch map accompanying letter of Sept. 10, 1972

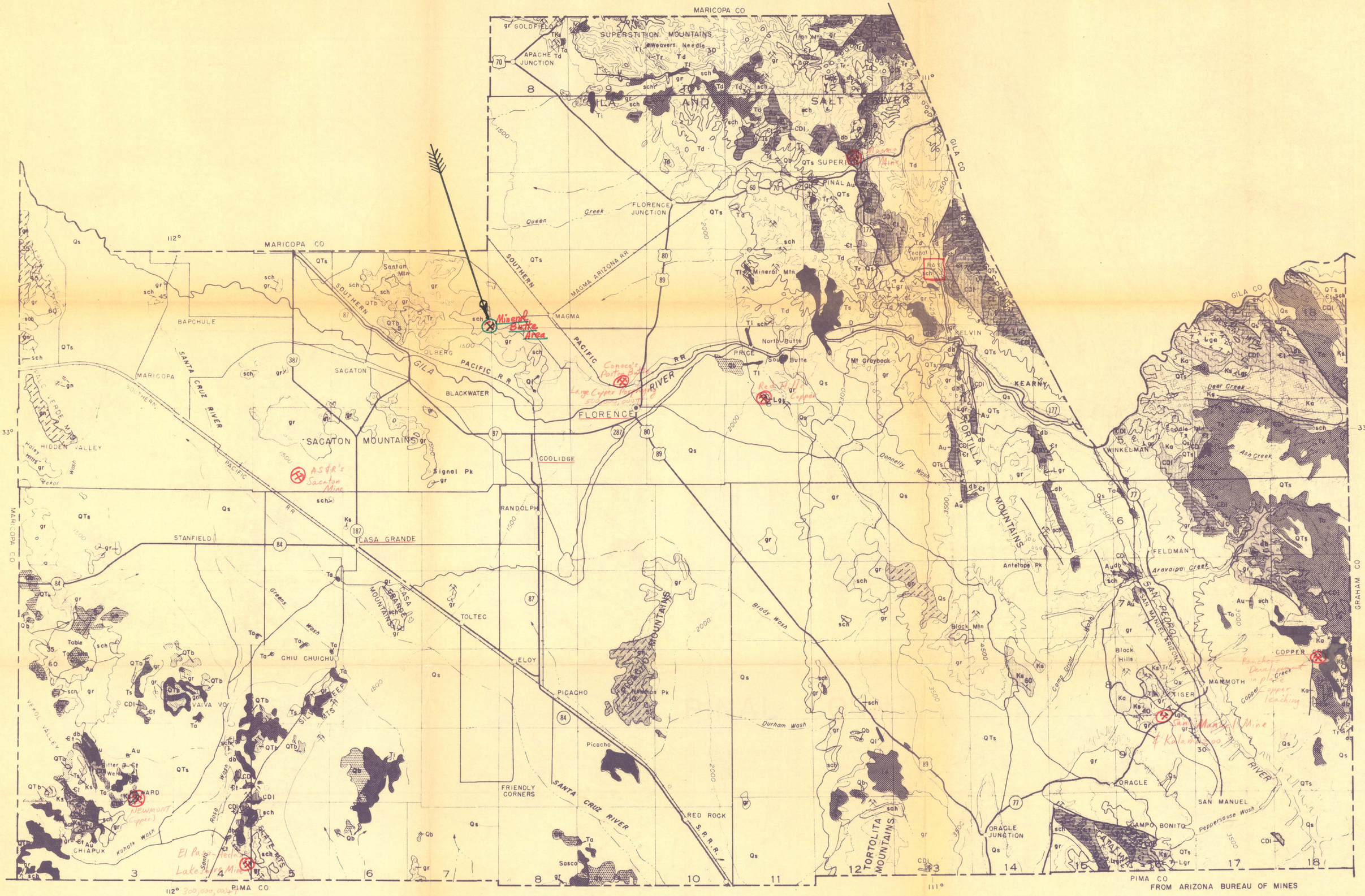
SKETCH MAP
OF
MINERAL BUTTE AREA
PINAL COUNTY
ARIZONA

October, 1972

HEINRICHS GEOEXPLORATION CO.
P. O. Box 5964
TUCSON, ARIZONA 85703

Scale: 1" = 2000'


R7E
R8E
T3S
T4S
GROUNDED FENCE
RESERVATION LINE
GILA RIVER INDIAN RESERVATION
APPROX. LOC. OF SECT. COR.
36 31
DH #1
DH #2
DH #3
PDH
SPREAD 1
SPREAD 2
WEAK
MODERATE
Approximate Location of Duval's Copper Oxide Body (No reported sulfide roots)
Anomaly continues at depth
RELATIVE ANOMALY STRENGTH
VERY WEAK
WEAK
MODERATE
STRONG
I.P. LINE NO. → 4E
STATIONS
ELECTRODES
INTERFACE
PROPOSED DRILL HOLE
CENTERS OF BROAD SELF POTENTIAL LOWS
OUTLINE OF SCHEMATIC ZONES OF EQUAL RELATIVE ANOMALY STRENGTH
DH #3 APPROXIMATE LOCATION OF EXISTING NORANDEX DRILL HOLE
HEINRICHS GEOEXPLORATION COMPANY
POST OFFICE BOX 5964 TUCSON, ARIZONA, 85703
Phone: 602/623-0578
Cable: GEOEX, Tucson
geophysical engineers
vancouver sydney
572-70
INDUCED POLARIZATION LOCATION AND INTERPRETATION PLAN
MINERAL BUTTE AREA
PINAL COUNTY, ARIZ.
FOR
NORANDEX INC.
SCALE: 1" = 400'
DRAWN BY: JAY DOWNS
DATE: OCT. 1970

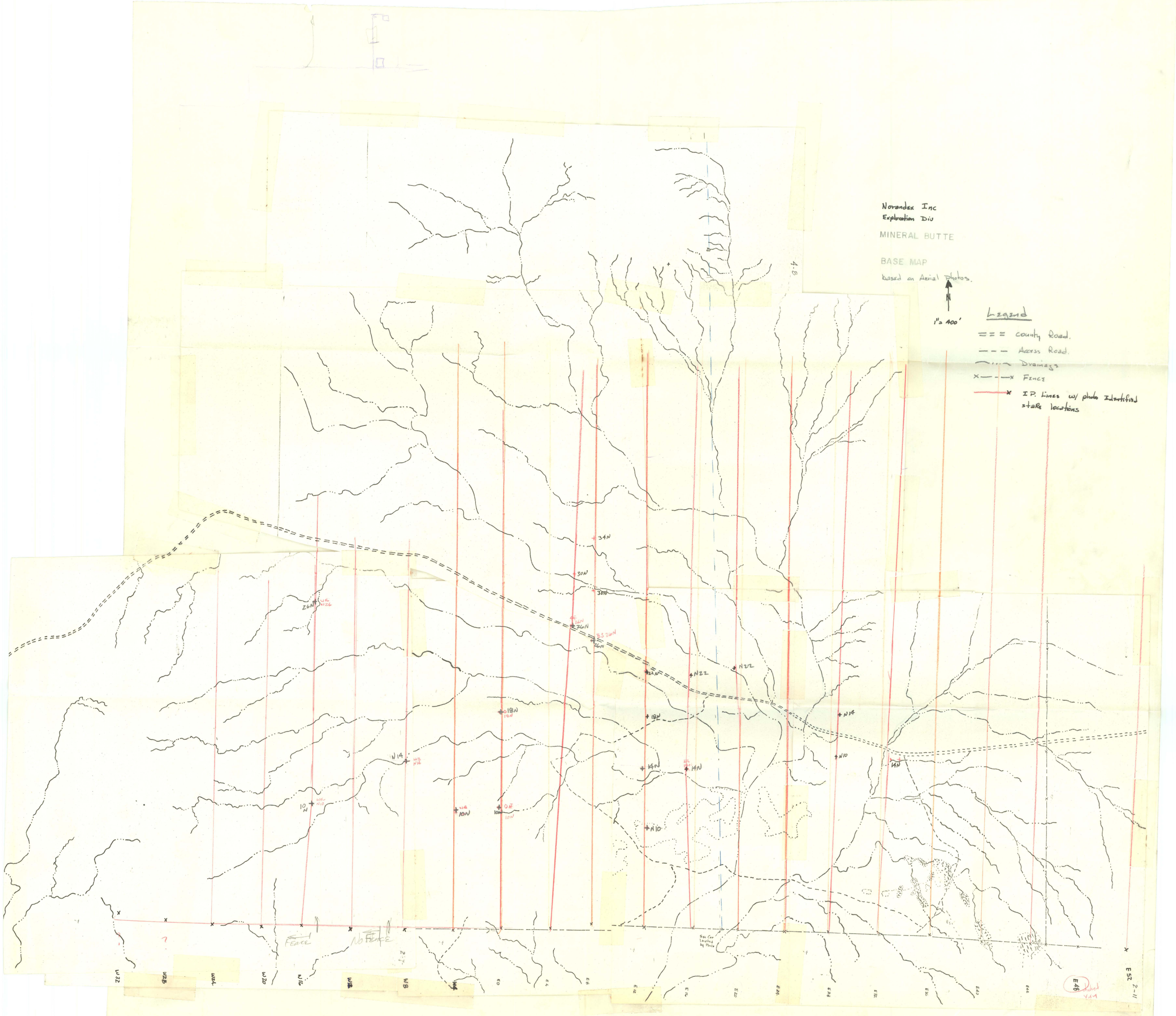


FROM ARIZONA BUREAU OF MINES

PINAL COUNTY

SCALE: 1:250,000

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


Norandex Inc
Exploration Div
MINERAL BUTTE
BASE MAP
based on Aerial Photos.
N
1" = 400'
Legend
county Road.
Access Road.
Drainage
Fence
I.P. Lines w/ photo Identified stake locations
4-8
34N
30N
30N
26N
22N
22N
18N
14N
14N
10N
10N
14N
10N
14N
10N
Fence
No Fence
W32
W28
W24
W20
W16
W12
W8
W4
E0
E4
E8
E12
E16
E20
E24
E28
E32
E36
E40
E44
E48
E52
2-11
#572

JOB 572 LINE 28 W SP1 N AND S 1/2 1//9/70 1000 FEET=DIPOLE LENGTH
CAL GROUP NO. 1

CAL CUR	PFE	AC1	AC2	AC FREQ	DC FREQ	PFE CAL	RHO CAL
1.000	0.00	97.600	0.00	3.00	.30	0.0000	1.0246

COMPUTED DATA									FIELD DATA					
POINT NO.	N	RHO	PFE	MCF	CCPFE	CCMCF	CPFE		PFE	CUR	PT.	N	AC1	AC2
1	1	72.55	1.30	17.9	1.18	16.3	.12	**	1.30	3.00	1	1	69.900	0.00
2	1	79.69	1.40	17.6	1.30	16.3	.10	**	1.40	3.00	2	1	76.700	0.00
3	2	98.78	1.70	17.2	1.42	14.4	.28	**	1.70	3.00	3	2	23.700	0.00
4	1	86.08	1.10	12.8	1.01	11.7	.09	**	1.10	3.00	4	1	83.100	0.00
5	2	100.67	1.50	14.9	1.23	12.2	.27	**	1.50	3.00	5	2	24.200	0.00
6	3	129.34	1.80	13.9	1.35	10.5	.45	**	1.80	3.00	6	3	12.400	0.00
7	1	56.90	1.90	33.4	1.74	30.5	.16	**	1.90	3.00	7	1	54.500	0.00
8	2	49.89	2.30	46.1	1.59	32.0	.71	**	2.30	3.00	8	2	11.900	0.00
9	3	58.14	2.80	48.2	1.50	25.8	1.30	**	2.80	3.00	9	3	5.520	0.00
10	4	69.99	3.50	50.0	1.63	23.3	1.87	**	3.50	3.00	10	4	3.300	0.00
11	1	73.91	1.60	21.6	1.49	20.1	.11	**	1.60	3.00	11	1	71.000	0.00
12	2	87.53	1.70	19.4	1.37	15.7	.33	**	1.70	3.00	12	2	21.000	0.00
13	3	70.61	2.10	29.7	1.09	15.5	1.01	**	2.10	3.00	13	3	6.750	0.00
14	4	83.50	2.90	34.7	1.42	17.0	1.48	**	2.90	3.00	14	4	3.960	0.00
15	5	105.41	3.50	33.2	1.72	16.3	1.78	**	3.50	3.00	15	5	2.840	0.00
16	2	141.57	1.30	9.2	1.13	8.0	.17	**	1.30	3.00	16	2	34.100	0.00
17	3	150.94	1.60	10.6	1.24	8.2	.36	**	1.60	3.00	17	3	14.500	0.00
18	4	114.33	2.00	17.5	1.02	8.9	.98	**	2.00	3.00	18	4	5.470	0.00
19	5	132.86	3.20	24.1	1.88	14.2	1.32	**	3.20	3.00	19	5	3.590	0.00
20	6	152.16	4.00	26.3	2.34	15.4	1.66	**	4.00	3.00	20	6	2.550	0.00
21	3	140.39	1.50	10.7	1.10	7.8	.40	**	1.50	3.00	21	3	13.500	0.00
22	4	142.83	2.20	15.4	1.47	10.3	.73	**	2.20	3.00	22	4	6.820	0.00
23	5	105.64	3.00	28.4	1.22	11.6	1.78	**	3.00	3.00	23	5	2.860	0.00
24	6	121.03	3.40	28.1	1.16	9.6	2.24	**	3.40	3.00	24	6	2.040	0.00
25	4	169.47	1.60	9.4	1.02	6.0	.58	**	1.60	3.00	25	4	8.140	0.00
26	5	165.25	2.40	14.5	1.41	8.5	.99	**	2.40	3.00	26	5	4.500	0.00
27	6	117.72	3.10	26.3	.78	6.7	2.32	**	3.10	3.00	27	6	1.990	0.00
29	1	74.11	1.30	17.5	1.19	16.0	.11	**	1.30	3.00	29	1	71.400	0.00
30	2	99.62	1.70	17.1	1.43	14.3	.27	**	1.70	3.00	30	2	23.900	0.00
31	3	129.34	1.80	13.9	1.35	10.5	.45	**	1.80	3.00	31	3	12.400	0.00
32	1	102.75	1.40	13.6	1.33	12.9	.07	**	1.40	3.00	32	1	98.900	0.00
33	2	96.66	2.10	21.7	1.81	18.8	.29	**	2.10	3.00	33	2	23.100	0.00
34	3	140.59	2.40	17.1	2.00	14.2	.40	**	2.40	3.00	34	3	13.400	0.00
35	4	175.17	2.50	14.3	1.95	11.1	.55	**	2.50	3.00	35	4	8.340	0.00
36	1	103.16	1.50	14.5	1.43	13.9	.07	**	1.50	3.00	36	1	99.200	0.00
37	2	109.11	2.40	22.0	2.16	19.8	.24	**	2.40	3.00	37	2	26.000	0.00
38	3	102.90	2.90	28.2	2.29	22.3	.61	**	2.90	3.00	38	3	9.760	0.00
39	4	158.76	3.30	20.8	2.67	16.8	.63	**	3.30	3.00	39	4	7.500	0.00
40	5	201.89	3.30	16.3	2.54	12.6	.76	**	3.30	3.00	40	5	5.450	0.00
41	2	53.03	2.70	50.9	2.05	38.7	.65	**	2.70	3.00	41	2	12.600	0.00
42	3	65.35	3.20	49.0	2.09	31.9	1.11	**	3.20	3.00	42	3	6.180	0.00
43	4	70.33	4.00	56.9	2.14	30.5	1.86	**	4.00	3.00	43	4	3.300	0.00
44	5	109.27	4.00	36.6	2.30	21.0	1.70	**	4.00	3.00	44	5	2.930	0.00
45	6	139.77	4.10	29.3	2.24	16.0	1.86	**	4.10	3.00	45	6	2.340	0.00
46	3	60.89	3.00	49.3	1.78	29.2	1.22	**	3.00	3.00	46	3	5.770	0.00
47	4	78.75	3.30	41.9	1.70	21.6	1.60	**	3.30	3.00	47	4	3.720	0.00
48	5	84.25	3.50	41.5	1.12	13.3	2.38	**	3.50	3.00	48	5	2.270	0.00
49	6	134.34	3.60	26.8	1.65	12.3	1.95	**	3.60	3.00	49	6	2.260	0.00

JOB 572 LINE 12W SP 2 S + N 1/2 10/6/70 400 FEET=DIPOLE LENGTH
CAL GROUP NO. 1

CAL CUR	PFE	AC1	AC2	AC FREQ	DC FREQ	PFE CAL	RHO CAL
1.000	0.00	98.100	0.00	3.00	.30	0.0000	1.0194

COMPUTED DATA									FIELD DATA					
POINT NO.	N	RHO	PFE	MCF	CCPFE	CCMCF	CPFE		PFE	CUR	PT.	N	AC1	AC2
1	1	116.64	.90	7.7	.90	7.7	0.00	**	.90	2.00	1	1	189.000	0.00
2	2	148.11	.90	6.1	.90	6.1	0.00	**	.90	2.00	2	2	60.000	0.00
3	1	93.00	.70	7.5	.70	7.5	0.00	**	.70	2.00	3	1	151.000	0.00
4	2	120.70	1.10	9.1	1.10	9.1	0.00	**	1.10	2.00	4	2	48.800	0.00
5	3	143.79	.90	6.3	.90	6.3	0.00	**	.90	2.00	5	3	23.300	0.00
6	1	73.37	.80	10.9	.80	10.9	0.00	**	.80	1.00	6	1	59.500	0.00
7	2	91.92	1.00	10.9	1.00	10.9	0.00	**	1.00	2.00	7	2	37.200	0.00
8	3	116.71	1.50	12.9	1.50	12.9	0.00	**	1.50	2.00	8	3	18.800	0.00
9	4	136.44	1.40	10.3	1.40	10.3	0.00	**	1.40	2.00	9	4	11.000	0.00
10	1	46.38	1.10	23.7	1.10	23.7	0.00	**	1.10	1.00	10	1	37.500	0.00
11	2	49.42	1.40	28.3	1.40	28.3	0.00	**	1.40	1.00	11	2	9.960	0.00
12	3	63.51	1.80	28.3	1.71	26.9	.09	**	1.80	2.00	12	3	10.200	0.00
13	4	77.68	2.10	27.0	1.97	25.3	.13	**	2.10	2.00	13	4	6.220	0.00
14	5	91.71	2.00	21.8	1.82	19.8	.18	**	2.00	2.00	14	5	4.200	0.00
15	2	45.54	1.60	35.1	1.60	35.1	0.00	**	1.60	1.00	15	2	9.160	0.00
16	3	55.84	1.90	34.0	1.79	32.0	.11	**	1.90	1.00	16	3	4.480	0.00
17	4	71.23	1.80	25.3	1.65	23.1	.15	**	1.80	2.00	17	4	5.720	0.00
18	5	85.90	2.10	24.4	1.90	22.1	.20	**	2.10	2.00	18	5	3.930	0.00
19	6	100.07	1.80	18.0	1.55	15.5	.25	**	1.80	2.00	19	6	2.870	0.00
20	3	62.08	1.50	24.2	1.40	22.6	.10	**	1.50	1.00	20	3	5.000	0.00
21	4	76.81	1.60	20.8	1.46	19.0	.14	**	1.60	1.00	21	4	3.090	0.00
22	5	95.91	1.60	16.7	1.43	14.9	.17	**	1.60	2.00	22	5	4.410	0.00
23	6	114.02	1.80	15.8	1.59	14.0	.21	**	1.80	2.00	23	6	3.270	0.00
24	1	152.43	.90	5.9	.90	5.9	0.00	**	.90	2.00	24	1	247.000	0.00
25	2	152.06	.90	5.9	.90	5.9	0.00	**	.90	1.00	25	2	30.800	0.00
26	3	145.93	1.10	7.5	1.10	7.5	0.00	**	1.10	1.00	26	3	11.800	0.00
27	1	146.88	.90	6.1	.90	6.1	0.00	**	.90	2.00	27	1	238.000	0.00
28	2	158.72	.90	5.7	.90	5.7	0.00	**	.90	2.00	28	2	64.300	0.00
29	3	149.34	.90	6.0	.90	6.0	0.00	**	.90	1.00	29	3	12.100	0.00
30	4	138.98	.90	6.5	.90	6.5	0.00	**	.90	1.00	30	4	5.630	0.00
31	1	109.63	.70	6.4	.70	6.4	0.00	**	.70	2.00	31	1	178.000	0.00
32	2	111.55	1.10	9.9	1.10	9.9	0.00	**	1.10	2.00	32	2	45.100	0.00
33	3	108.72	1.00	9.2	1.00	9.2	0.00	**	1.00	2.00	33	3	17.600	0.00
34	4	99.18	1.10	11.1	1.00	10.1	.10	**	1.10	1.00	34	4	4.010	0.00
35	5	91.92	.80	8.7	.62	6.7	.18	**	.80	1.00	35	5	2.130	0.00
36	2	133.56	1.10	8.2	1.10	8.2	0.00	**	1.10	2.00	36	2	54.000	0.00
37	3	123.29	1.30	10.5	1.30	10.5	0.00	**	1.30	2.00	37	3	19.900	0.00
38	4	112.16	1.20	10.7	1.12	10.0	.08	**	1.20	2.00	38	4	9.060	0.00
39	5	100.95	1.20	11.9	1.04	10.3	.16	**	1.20	1.00	39	5	2.330	0.00
40	6	92.75	1.80	19.4	1.52	16.4	.28	**	1.80	1.00	40	6	1.330	0.00
41	3	143.26	1.40	9.8	1.40	9.8	0.00	**	1.40	2.00	41	3	23.100	0.00
42	4	132.00	1.80	13.6	1.80	13.6	0.00	**	1.80	2.00	42	4	10.600	0.00
43	5	121.44	1.30	10.7	1.18	9.7	.12	**	1.30	2.00	43	5	5.600	0.00
44	6	112.27	1.80	16.0	1.59	14.2	.21	**	1.80	1.00	44	6	1.610	0.00

JOB 572 LINE 4W SP 1 S+N 1/2 10/6/70 400 FEET=DIPOLE LENGTH
CAL GROUP NO. 1

CAL CUR	PFE	AC1	AC2	AC FREQ	DC FREQ	PFE CAL	RHO CAL
1.000	0.00	98.100	0.00	3.00	.30	0.0000	1.0194

COMPUTED DATA									FIELD DATA					
POINT NO.	N	RHO	PFE	MCF	CCPFE	CCMCF	CPFE		PFE	CUR	PT.	N	AC1	AC2
1	1	56.15	2.00	35.6	2.00	35.6	0.00	**	2.00	1.00	1	1	45.000	0.00
2	2	36.54	1.60	43.8	1.51	41.4	.09	**	1.60	2.00	2	2	14.700	0.00
3	1	39.65	3.00	75.7	3.00	75.7	0.00	**	3.00	3.00	3	1	94.400	0.00
4	2	42.63	2.50	58.6	2.50	58.6	0.00	**	2.50	1.00	4	2	8.500	0.00
5	3	30.84	2.50	81.1	2.24	72.7	.26	**	2.50	2.00	5	3	4.920	0.00
6	1	52.55	3.10	59.0	3.10	59.0	0.00	**	3.10	3.00	6	1	125.000	0.00
7	2	50.96	4.50	88.3	4.50	88.3	0.00	**	4.50	3.00	7	2	29.900	0.00
8	3	63.24	3.60	56.9	3.51	55.4	.09	**	3.60	1.00	8	3	4.990	0.00
9	4	44.10	3.60	81.6	3.30	74.9	.30	**	3.60	2.00	9	4	3.480	0.00
10	1	60.64	3.50	57.7	3.50	57.7	0.00	**	3.50	1.00	10	1	47.900	0.00
11	2	88.29	4.10	46.4	4.10	46.4	0.00	**	4.10	3.00	11	2	52.000	0.00
12	3	111.42	3.90	35.0	3.90	35.0	0.00	**	3.90	3.00	12	3	26.300	0.00
13	4	137.05	2.60	19.0	2.60	19.0	0.00	**	2.60	1.00	13	4	5.460	0.00
14	5	94.95	2.20	23.2	2.03	21.4	.17	**	2.20	2.00	14	5	4.340	0.00
15	2	73.63	4.50	61.1	4.50	61.1	0.00	**	4.50	1.00	15	2	14.400	0.00
16	3	122.25	4.10	33.5	4.10	33.5	0.00	**	4.10	3.00	16	3	28.800	0.00
17	4	151.93	3.50	23.0	3.50	23.0	0.00	**	3.50	3.00	17	4	18.000	0.00
18	5	190.08	2.30	12.1	2.30	12.1	0.00	**	2.30	1.00	18	5	4.340	0.00
19	6	129.10	1.60	12.4	1.43	11.0	.17	**	1.60	2.00	19	6	3.710	0.00
20	3	45.51	4.50	98.9	4.35	95.6	.15	**	4.50	1.00	20	3	3.560	0.00
21	4	77.21	3.70	47.9	3.56	46.2	.14	**	3.70	3.00	21	4	9.130	0.00
22	5	94.42	2.90	30.7	2.73	28.9	.17	**	2.90	3.00	22	5	6.430	0.00
23	6	119.83	1.70	14.2	1.51	12.6	.19	**	1.70	1.00	23	6	1.720	0.00
24	1	60.18	.40	6.6	.40	6.6	0.00	**	.40	1.00	24	1	49.000	0.00
25	2	50.64	.80	15.8	.80	15.8	0.00	**	.80	3.00	25	2	30.800	0.00
26	3	51.47	1.80	35.0	1.67	32.5	.13	**	1.80	3.00	26	3	12.400	0.00
27	4	39.35	3.10	78.8	2.75	69.9	.35	**	3.10	1.00	27	4	1.560	0.00
28	1	34.15	.60	17.6	.60	17.6	0.00	**	.60	2.00	28	1	55.500	0.00
29	2	46.37	.70	15.1	.70	15.1	0.00	**	.70	1.00	29	2	9.410	0.00
30	3	46.07	1.80	39.1	1.65	35.9	.15	**	1.80	3.00	30	3	11.100	0.00
31	4	48.23	2.50	51.8	2.24	46.4	.26	**	2.50	3.00	31	4	5.770	0.00
32	5	38.27	4.30	112.4	3.70	96.6	.60	**	4.30	1.00	32	5	.857	0.00
33	2	44.16	1.40	31.7	1.40	31.7	0.00	**	1.40	2.00	33	2	17.800	0.00
34	3	74.87	1.50	20.0	1.50	20.0	0.00	**	1.50	1.00	34	3	6.030	0.00
35	4	76.18	2.20	28.9	2.06	27.1	.14	**	2.20	3.00	35	4	9.140	0.00
36	5	82.84	3.10	37.4	2.89	34.9	.21	**	3.10	3.00	36	5	5.630	0.00
37	6	64.24	4.90	76.3	4.44	69.2	.46	**	4.90	1.00	37	6	.894	0.00
38	3	59.90	1.80	30.1	1.70	28.4	.10	**	1.80	2.00	38	3	9.620	0.00
39	4	97.19	1.60	16.5	1.50	15.5	.10	**	1.60	1.00	39	4	3.910	0.00
40	5	96.88	2.70	27.9	2.53	26.1	.17	**	2.70	3.00	40	5	6.610	0.00
41	6	100.11	3.40	34.0	3.15	31.5	.25	**	3.40	3.00	41	6	4.240	0.00
42	4	63.20	1.90	30.1	1.72	27.2	.18	**	1.90	2.00	42	4	5.070	0.00
43	5	100.14	1.70	17.0	1.54	15.4	.16	**	1.70	1.00	43	5	2.300	0.00
44	6	97.55	2.70	27.7	2.44	25.0	.26	**	2.70	3.00	44	6	4.160	0.00

7
8
9
9
12
45

JOB 572 LINE 56E SP1 N AND S 1/2 1//10/70 1000 FEET=DIPOLE LENGTH
CAL GROUP NO. 1

CAL CUR	PFE	AC1	AC2	AC FREQ	DC FREQ	PFE CAL	RHO CAL
1.000	.10	97.700	0.00	1.00	.10	.1000	1.0235

COMPUTED DATA									FIELD DATA					
POINT NO.	N	RHO	PFE	MCF	CCPFE	CCMCF	CPFE		PFE	CUR	PT.	N	AC1	AC2
1	1	72.64	1.10	15.1	1.10	15.1	0.00	**	1.20	4.00	1	1	93.600	0.00
2	1	58.77	1.40	23.8	1.40	23.8	0.00	**	1.50	4.00	2	1	75.500	0.00
3	2	64.71	1.80	27.8	1.69	26.1	.11	**	1.90	4.00	3	2	20.700	0.00
4	1	34.05	1.00	29.4	.93	27.2	.07	**	1.10	5.00	4	1	54.900	0.00
5	2	41.11	2.20	53.5	2.00	48.5	.20	**	2.30	4.00	5	2	13.100	0.00
6	3	45.30	2.80	61.8	2.38	52.6	.42	**	2.90	4.00	6	3	5.740	0.00
7	1	22.92	1.20	52.4	1.07	46.8	.13	**	1.30	4.00	7	1	29.500	0.00
8	2	29.93	2.40	80.2	2.08	69.6	.32	**	2.50	5.00	8	2	11.900	0.00
9	3	41.47	3.30	79.6	2.83	68.2	.47	**	3.40	4.00	9	3	5.230	0.00
10	4	51.81	3.20	61.8	2.55	49.2	.65	**	3.30	4.00	10	4	3.270	0.00
11	1	33.72	1.20	35.6	1.13	33.4	.07	**	1.30	4.00	11	1	43.400	0.00
12	2	41.30	1.90	46.0	1.70	41.1	.20	**	2.00	4.00	12	2	13.200	0.00
13	3	56.49	3.00	53.1	2.69	47.7	.31	**	3.10	5.00	13	3	8.930	0.00
14	4	82.15	3.70	45.0	3.35	40.8	.35	**	3.80	4.00	14	4	5.160	0.00
15	5	104.18	3.40	32.6	2.98	28.6	.42	**	3.50	4.00	15	5	3.750	0.00
16	2	36.50	1.60	43.8	1.36	37.2	.24	**	1.70	4.00	16	2	11.700	0.00
17	3	48.86	2.50	51.2	2.12	43.5	.38	**	2.60	4.00	17	3	6.210	0.00
18	4	65.91	3.20	48.5	2.73	41.4	.47	**	3.30	5.00	18	4	5.200	0.00
19	5	94.27	3.20	33.9	2.72	28.9	.48	**	3.30	4.00	19	5	3.400	0.00
20	6	119.11	3.00	25.2	2.47	20.7	.53	**	3.10	4.00	20	6	2.690	0.00
21	3	33.60	1.70	50.6	1.08	32.0	.62	**	1.90	4.00	21	3	4.300	.20
22	4	46.97	3.00	63.9	2.26	48.1	.74	**	3.10	4.00	22	4	2.970	0.00
23	5	63.14	3.80	60.2	2.98	47.1	.82	**	3.90	5.00	23	5	2.830	0.00
24	6	89.86	4.00	44.5	3.22	35.8	.78	**	4.10	4.00	24	6	2.010	0.00
25	4	34.52	2.10	60.8	.98	28.4	1.12	**	2.30	4.00	25	4	2.200	.20
26	5	51.62	3.30	63.9	2.22	43.1	1.08	**	3.40	4.00	26	5	1.860	0.00
27	6	70.37	4.40	62.5	3.32	47.2	1.08	**	4.50	5.00	27	6	1.960	0.00
28	1	73.26	1.10	15.0	1.10	15.0	0.00	**	1.20	5.00	28	1	118.000	0.00
29	2	64.08	1.80	28.1	1.69	26.4	.11	**	1.90	4.00	29	2	20.500	0.00
30	3	45.21	2.60	57.5	2.18	48.3	.42	**	2.70	4.00	30	3	5.740	0.00
31	1	84.68	1.20	14.2	1.20	14.2	0.00	**	1.30	4.00	31	1	109.000	0.00
32	2	62.08	1.90	30.6	1.79	28.8	.11	**	2.00	5.00	32	2	24.800	0.00
33	3	53.72	2.60	48.4	2.27	42.3	.33	**	2.70	4.00	33	3	6.820	0.00
34	4	45.45	3.50	77.0	2.72	59.9	.78	**	3.60	4.00	34	4	2.860	0.00
35	1	104.88	1.20	11.4	1.20	11.4	0.00	**	1.30	4.00	35	1	135.000	0.00
36	2	103.68	1.70	16.4	1.70	16.4	0.00	**	1.80	4.00	36	2	33.200	0.00
37	3	74.35	2.60	35.0	2.39	32.1	.21	**	2.70	5.00	37	3	11.800	0.00
38	4	66.76	2.80	41.9	2.34	35.0	.46	**	2.90	4.00	38	4	4.230	0.00
39	5	58.95	3.00	50.9	2.10	35.6	.90	**	3.10	4.00	39	5	2.130	0.00
40	2	105.14	1.00	9.5	1.00	9.5	0.00	**	1.10	4.00	40	2	33.900	0.00
41	3	98.47	1.80	18.3	1.66	16.8	.14	**	1.90	4.00	41	3	12.600	0.00
42	4	73.06	2.20	30.1	1.79	24.5	.41	**	2.30	5.00	42	4	5.820	0.00
43	5	68.96	3.50	50.8	2.77	40.1	.73	**	3.60	4.00	43	5	2.480	0.00
44	6	62.98	3.90	61.9	2.65	42.0	1.25	**	4.00	4.00	44	6	1.410	0.00
45	3	120.23	1.60	13.3	1.49	12.4	.11	**	1.80	4.00	45	3	15.400	.20
46	4	108.00	2.10	19.4	1.86	17.2	.24	**	2.20	4.00	46	4	6.890	0.00
42	5	84.76	3.40	40.1	2.85	33.6	.55	**	3.60	5.00	42	5	3.810	.20
48	6	81.06	3.60	44.4	2.70	33.4	.90	**	3.70	4.00	48	6	1.820	0.00

JOB 572 LINE 52E SP1 S+N 1/2 9/23/70 400 FEET=DIPOLE LENGTH
CAL GROUP NO. 1

CAL CUR	PFE	AC1	AC2	AC FREQ	DC FREQ	PFE CAL	RHO CAL
1.000	0.00	97.200	0.00	3.00	.30	0.0000	1.0288

COMPUTED DATA									FIELD DATA					
POINT NO.	N	RHO	PFE	MCF	CCPFE	CCMCF	CPFE		PFE	CUR	PT.	N	AC1	AC2
1	1	51.07	.90	17.6	.90	17.6	0.00	**	.90	3.00	1	1	123.000	0.00
2	1	54.39	.90	16.5	.90	16.5	0.00	**	.90	3.00	2	1	131.000	0.00
3	2	63.57	1.10	17.3	1.10	17.3	0.00	**	1.10	3.00	3	2	38.200	0.00
4	1	96.33	.90	9.3	.90	9.3	0.00	**	.90	3.00	4	1	232.000	0.00
5	2	85.54	.90	10.5	.90	10.5	0.00	**	.90	3.00	5	2	51.500	0.00
6	3	93.93	1.00	10.6	1.00	10.6	0.00	**	1.00	3.00	6	3	22.600	0.00
7	1	105.88	.90	8.5	.90	8.5	0.00	**	.90	2.00	7	1	170.000	0.00
8	2	80.80	1.00	12.4	1.00	12.4	0.00	**	1.00	3.00	8	2	48.600	0.00
9	3	63.18	1.00	15.8	.91	14.3	.09	**	1.00	3.00	9	3	15.200	0.00
10	4	64.74	1.10	17.0	.93	14.3	.17	**	1.10	3.00	10	4	7.780	0.00
11	1	98.60	1.10	11.2	1.10	11.2	0.00	**	1.10	2.00	11	1	158.000	0.00
12	2	94.14	1.40	14.9	1.40	14.9	0.00	**	1.40	2.00	12	2	37.600	0.00
13	3	70.87	1.30	18.3	1.22	17.2	.08	**	1.30	3.00	13	3	17.000	0.00
14	4	54.16	1.40	25.8	1.18	21.7	.22	**	1.40	3.00	14	4	6.490	0.00
15	5	55.81	1.70	30.5	1.34	24.0	.36	**	1.70	3.00	15	5	3.810	0.00
16	2	105.30	1.30	12.3	1.30	12.3	0.00	**	1.30	2.00	16	2	42.100	0.00
17	3	97.11	1.50	15.4	1.50	15.4	0.00	**	1.50	2.00	17	3	15.500	0.00
18	4	75.70	1.30	17.2	1.16	15.3	.14	**	1.30	3.00	18	4	9.080	0.00
19	5	58.92	1.50	25.5	1.17	19.8	.33	**	1.50	3.00	19	5	4.030	0.00
20	6	61.18	2.10	34.3	1.61	26.4	.49	**	2.10	3.00	20	6	2.600	0.00
21	3	135.69	1.30	9.6	1.30	9.6	0.00	**	1.30	2.00	21	3	21.700	0.00
22	4	118.81	1.30	10.9	1.30	10.9	0.00	**	1.30	2.00	22	4	9.500	0.00
23	5	93.91	1.40	14.9	1.23	13.0	.17	**	1.40	3.00	23	5	6.430	0.00
24	6	72.73	1.80	24.8	1.42	19.5	.38	**	1.80	3.00	24	6	3.100	0.00
25	1	44.76	.70	15.6	.70	15.6	0.00	**	.70	3.00	25	1	108.000	0.00
26	2	64.28	.90	14.0	.90	14.0	0.00	**	.90	3.00	26	2	38.700	0.00
27	3	68.02	1.10	16.2	1.02	14.9	.08	**	1.10	2.00	27	3	10.900	0.00
28	4	92.61	1.10	11.9	.99	10.7	.11	**	1.10	2.00	28	4	7.420	0.00
29	1	38.21	.70	18.3	.70	18.3	0.00	**	.70	3.00	29	1	92.200	0.00
30	2	50.11	.80	16.0	.80	16.0	0.00	**	.80	3.00	30	2	30.200	0.00
31	3	63.18	1.00	15.8	.91	14.3	.09	**	1.00	3.00	31	3	15.200	0.00
32	4	62.90	1.50	23.8	1.32	21.0	.18	**	1.50	2.00	32	4	5.020	0.00
33	5	82.23	1.50	18.2	1.29	15.7	.21	**	1.50	2.00	33	5	3.750	0.00
34	2	43.52	.90	20.7	.90	20.7	0.00	**	.90	3.00	34	2	26.200	0.00
35	3	47.85	1.10	23.0	.96	20.1	.14	**	1.10	3.00	35	3	11.500	0.00
36	4	56.14	1.20	21.4	.99	17.6	.21	**	1.20	3.00	36	4	6.740	0.00
37	5	55.70	1.50	26.9	1.14	20.5	.36	**	1.50	2.00	37	5	2.540	0.00
38	6	72.00	2.10	29.2	1.71	23.8	.39	**	2.10	2.00	38	6	2.040	0.00

BUSINESS FORMS PRINTING COMPANY ENGINEERED FOR HIGH SPEED PRINTERS

JOB 572 LINE 44E SP1 N AND S 1/2 9/23/70 400 FEET=DIPOLE LENGTH
CAL GROUP NO. 1

CAL CUR	PFE	AC1	AC2	AC FREQ	DC FREQ	PFE CAL	RHO CAL
1.000	0.00	97.600	0.00	3.00	.30	0.0000	1.0246

COMPUTED DATA									FIELD DATA					
POINT NO.	N	RHO	PFE	MCF	CCPFE	CCMCF	CPFE		PFE	CUR	PT.	N	AC1	AC2
1	1	74.36	.80	10.8	.80	10.8	0.00	**	.80	3.00	1	1	180.000	0.00
2	2	82.79	1.00	12.1	1.00	12.1	0.00	**	1.00	3.00	2	2	50.000	0.00
3	1	53.81	1.00	18.6	1.00	18.6	0.00	**	1.00	3.00	3	1	130.000	0.00
4	2	65.80	1.10	16.7	1.10	16.7	0.00	**	1.10	3.00	4	2	39.700	0.00
5	3	71.62	1.60	22.3	1.52	21.2	.08	**	1.60	3.00	5	3	17.200	0.00
~~1~~	~~1~~	~~1.24~~	~~.50~~	~~402.6~~	~~-1.87~~	~~-1507.1~~	~~2.37~~	**	1.00	1.00	1	1	1.000	1.00
6	1	46.22	.70	15.1	.70	15.1	0.00	**	.70	3.00	6	1	112.000	0.00
7	2	54.08	1.20	22.2	1.20	22.2	0.00	**	1.20	3.00	7	2	32.600	0.00
8	3	71.13	1.50	21.1	1.42	20.0	.08	**	1.50	3.00	8	3	17.100	0.00
9	4	72.90	2.00	27.4	1.85	25.4	.15	**	2.00	3.00	9	4	8.720	0.00
10	1	38.62	.90	23.3	.90	23.3	0.00	**	.90	3.00	10	1	93.400	0.00
11	2	45.08	1.10	24.4	1.10	24.4	0.00	**	1.10	3.00	11	2	27.200	0.00
12	3	48.35	1.70	35.2	1.56	32.3	.14	**	1.70	3.00	12	3	11.600	0.00
13	4	60.61	2.00	33.0	1.81	29.8	.19	**	2.00	3.00	13	4	7.250	0.00
14	5	59.87	2.30	38.4	1.97	33.0	.33	**	2.30	3.00	14	5	4.080	0.00
15	2	32.85	1.20	36.5	1.10	33.5	.10	**	1.20	3.00	15	2	19.800	0.00
16	3	35.28	1.50	42.5	1.29	36.5	.21	**	1.50	3.00	16	3	8.480	0.00
17	4	38.08	2.10	55.1	1.74	45.6	.36	**	2.10	3.00	17	4	4.550	0.00
18	5	47.74	2.40	50.3	1.95	40.9	.45	**	2.40	3.00	18	5	3.250	0.00
19	6	46.95	2.80	59.6	2.10	44.8	.70	**	2.80	3.00	19	6	1.990	0.00
20	3	34.24	1.50	43.8	1.28	37.3	.22	**	1.50	3.00	20	3	8.230	0.00
21	4	36.45	2.00	54.9	1.61	44.3	.39	**	2.00	3.00	21	4	4.360	0.00
22	5	40.14	2.50	62.3	1.94	48.2	.56	**	2.50	3.00	22	5	2.730	0.00
23	6	50.07	2.90	57.9	2.26	45.2	.64	**	2.90	3.00	23	6	2.120	0.00
24	1	110.11	1.00	9.1	1.00	9.1	0.00	**	1.00	3.00	24	1	266.000	0.00
25	2	86.02	1.10	12.8	1.10	12.8	0.00	**	1.10	3.00	25	2	51.900	0.00
26	3	73.63	1.50	20.4	1.42	19.3	.08	**	1.50	3.00	26	3	17.700	0.00
27	1	92.63	.90	9.7	.90	9.7	0.00	**	.90	3.00	27	1	224.000	0.00
28	2	70.63	.90	12.7	.90	12.7	0.00	**	.90	3.00	28	2	42.700	0.00
29	3	61.09	1.40	22.9	1.30	21.3	.10	**	1.40	3.00	29	3	14.700	0.00
30	4	53.60	1.70	31.7	1.47	27.5	.23	**	1.70	3.00	30	4	6.430	0.00
31	1	85.35	1.10	12.9	1.10	12.9	0.00	**	1.10	3.00	31	1	206.000	0.00
32	2	85.52	1.30	15.2	1.30	15.2	0.00	**	1.30	3.00	32	2	51.500	0.00
33	3	69.75	1.30	18.6	1.22	17.5	.08	**	1.30	3.00	33	3	16.800	0.00
34	4	63.14	1.90	30.1	1.72	27.2	.18	**	1.90	3.00	34	4	7.560	0.00
35	5	55.96	2.40	42.9	2.04	36.5	.36	**	2.40	3.00	35	5	3.810	0.00
36	2	75.23	1.30	17.3	1.30	17.3	0.00	**	1.30	3.00	36	2	45.300	0.00
37	3	80.70	1.50	18.6	1.50	18.6	0.00	**	1.50	3.00	37	3	19.400	0.00
38	4	64.64	1.50	23.2	1.33	20.5	.17	**	1.50	3.00	38	4	7.770	0.00
39	5	55.76	2.30	41.2	1.94	34.8	.36	**	2.30	3.00	39	5	3.800	0.00
40	6	50.39	2.60	51.6	1.97	39.0	.63	**	2.60	3.00	40	6	2.140	0.00
41	3	114.17	1.30	11.4	1.30	11.4	0.00	**	1.30	3.00	41	3	27.500	0.00
42	4	120.52	1.40	11.6	1.40	11.6	0.00	**	1.40	3.00	42	4	14.500	0.00
43	5	95.70	1.70	17.8	1.53	16.0	.17	**	1.70	3.00	43	5	6.560	0.00
44	6	82.18	2.30	28.0	1.97	24.0	.33	**	2.30	3.00	44	6	3.500	0.00

JOB 572 LINE 40E SP1 S AND N 1/2 9/22/70 — 400 FEET=DIPOLE LENGTH
CAL GROUP NO. 1

CAL CUR	PFE	AC1	AC2	AC FREQ	DC FREQ	PFE CAL	RHO CAL
1.000	0.00	97.600	0.00	3.00	.30	0.0000	1.0246

COMPUTED DATA									FIELD DATA					
POINT NO.	N	RHO	PFE	MCF	CCPFE	CCMCF	CPFE		PFE	CUR	PT.	N	AC1	AC2
1	1	67.19	1.20	17.9	1.20	17.9	0.00	**	1.20	3.00	1	1	162.000	0.00
2	1	89.91	1.10	12.2	1.10	12.2	0.00	**	1.10	3.00	2	1	217.000	0.00
3	2	59.75	2.10	35.1	2.10	35.1	0.00	**	2.10	3.00	3	2	35.700	0.00
4	1	103.17	1.10	10.7	1.10	10.7	0.00	**	1.10	3.00	4	1	249.000	0.00
5	2	73.36	1.70	23.2	1.70	23.2	0.00	**	1.70	3.00	5	2	44.000	0.00
6	3	52.98	2.60	49.1	2.48	46.8	.12	**	2.60	3.00	6	3	12.600	0.00
7	1	135.09	.80	5.9	.80	5.9	0.00	**	.80	3.00	7	1	327.000	0.00
8	2	89.02	1.50	16.9	1.50	16.9	0.00	**	1.50	3.00	8	2	53.500	0.00
9	3	61.51	2.10	34.1	2.00	32.6	.10	**	2.10	3.00	9	3	14.700	0.00
10	4	49.70	2.60	52.3	2.35	47.2	.25	**	2.60	3.00	10	4	5.910	0.00
11	1	111.35	1.00	9.0	1.00	9.0	0.00	**	1.00	3.00	11	1	269.000	0.00
12	2	109.27	1.30	11.9	1.30	11.9	0.00	**	1.30	3.00	12	2	65.800	0.00
13	3	85.70	2.00	23.3	2.00	23.3	0.00	**	2.00	3.00	13	3	20.500	0.00
14	4	64.84	2.60	40.1	2.43	37.4	.17	**	2.60	3.00	14	4	7.710	0.00
15	5	58.89	2.90	49.2	2.57	43.6	.33	**	2.90	3.00	15	5	3.990	0.00
16	2	60.61	1.30	21.4	1.30	21.4	0.00	**	1.30	3.00	16	2	36.500	0.00
17	3	67.46	1.60	23.7	1.51	22.4	.09	**	1.60	3.00	17	3	16.200	0.00
18	4	53.14	2.10	39.5	1.87	35.2	.23	**	2.10	3.00	18	4	6.350	0.00
19	5	43.04	3.10	72.0	2.59	60.1	.51	**	3.10	3.00	19	5	2.910	0.00
20	6	41.88	3.10	74.0	2.29	54.6	.81	**	3.10	3.00	20	6	1.770	0.00
21	3	134.50	1.60	11.9	1.60	11.9	0.00	**	1.60	3.00	21	3	32.300	0.00
22	4	140.46	2.00	14.2	2.00	14.2	0.00	**	2.00	3.00	22	4	16.800	0.00
23	5	106.01	2.50	23.6	2.35	22.2	.15	**	2.50	3.00	23	5	7.210	0.00
24	6	85.03	3.20	37.6	2.89	34.0	.31	**	3.20	3.00	24	6	3.590	0.00
25	1	52.98	1.00	18.9	1.00	18.9	0.00	**	1.00	3.00	25	1	128.000	0.00
26	2	48.16	2.00	41.5	2.00	41.5	0.00	**	2.00	3.00	26	2	28.800	0.00
27	3	49.34	2.90	58.8	2.77	56.1	.13	**	2.90	3.00	27	3	11.700	0.00
28	4	50.42	2.70	53.5	2.45	48.6	.25	**	2.70	3.00	28	4	5.990	0.00
29	1	40.94	1.10	26.9	1.10	26.9	0.00	**	1.10	3.00	29	1	98.800	0.00
30	2	41.18	1.70	41.3	1.63	39.5	.07	**	1.70	3.00	30	2	24.700	0.00
31	3	38.65	2.50	64.7	2.31	59.8	.19	**	2.50	3.00	31	3	9.200	0.00
32	4	42.59	2.90	68.1	2.59	60.8	.31	**	2.90	3.00	32	4	5.050	0.00
33	5	45.67	2.70	59.1	2.23	48.8	.47	**	2.70	3.00	33	5	3.100	0.00
34	2	34.08	1.40	41.1	1.31	38.3	.09	**	1.40	3.00	34	2	20.500	0.00
35	3	34.87	1.90	54.5	1.68	48.3	.22	**	1.90	3.00	35	3	8.350	0.00
36	4	34.72	2.80	80.7	2.39	68.8	.41	**	2.80	3.00	36	4	4.120	0.00
37	5	39.41	2.90	73.6	2.32	58.9	.58	**	2.90	3.00	37	5	2.670	0.00
38	6	42.39	2.60	61.3	1.80	42.5	.80	**	2.60	3.00	38	6	1.800	0.00
39	3	35.35	1.60	45.3	1.39	39.2	.21	**	1.60	3.00	39	3	8.490	0.00
40	4	37.27	2.40	64.4	2.03	54.3	.37	**	2.40	3.00	40	4	4.440	0.00
41	5	37.42	3.10	82.9	2.48	66.3	.62	**	3.10	3.00	41	5	2.530	0.00
42	6	42.76	3.50	81.9	2.71	63.4	.79	**	3.50	3.00	42	6	1.800	0.00
43	4	32.85	2.50	76.1	2.05	62.5	.45	**	2.50	3.00	43	4	3.910	0.00
44	5	35.02	3.00	85.7	2.32	66.3	.68	**	3.00	3.00	44	5	2.370	0.00
45	6	35.84	4.10	114.4	3.10	86.5	1.00	**	4.10	3.00	45	6	1.500	0.00
46	5	37.23	3.00	80.6	2.38	63.8	.62	**	3.00	3.00	46	5	2.520	0.00
47	6	39.79	3.20	80.4	2.33	58.6	.87	**	3.20	3.00	47	6	1.680	0.00

JOB 572 LINE 40E SP2 N1/2 9/22/70 — 400 FEET=DIPOLE LENGTH
CAL GROUP NO. 1

CAL CUR	PFE	AC1	AC2	AC FREQ	DC FREQ	PFE CAL	RHO CAL
1.000	0.00	97.600	0.00	3.00	.30	0.0000	1.0246

COMPUTED DATA									FIELD DATA					
POINT NO.	N	RHO	PFE	MCF	CCPFE	CCMCF	CPFE		PFE	CUR	PT.	N	AC1	AC2
~~1~~	~~1~~	~~1.24~~	~~.50~~	~~402.6~~	~~-1.87~~	~~-1507.1~~	~~2.37~~	**	1.00	1.00	1	1	1.000	1.00
1	1	34.73	1.00	28.8	1.00	28.8	0.00	**	1.00	3.00	1	1	83.900	0.00
2	2	34.01	1.20	35.3	1.10	32.5	.10	**	1.20	3.00	2	2	20.500	0.00
3	3	30.24	1.90	62.8	1.64	54.1	.26	**	1.90	3.00	3	3	7.240	0.00
4	4	33.49	2.40	71.7	1.97	58.7	.43	**	2.40	3.00	4	4	3.990	0.00
5	1	32.14	.80	24.9	.80	24.9	0.00	**	.80	3.00	5	1	77.800	0.00
6	2	27.71	1.20	43.3	1.07	38.7	.13	**	1.20	3.00	6	2	16.700	0.00
7	3	28.40	1.90	66.9	1.61	56.8	.29	**	1.90	3.00	7	3	6.800	0.00
8	1	27.87	.90	32.3	.90	32.3	0.00	**	.90	3.00	8	1	67.400	0.00
9	2	27.93	1.40	50.1	1.27	45.6	.13	**	1.40	3.00	9	2	16.800	0.00
10	1	27.22	1.10	40.4	1.10	40.4	0.00	**	1.10	3.00	10	1	65.700	0.00
11	1	28.49	.90	31.6	.90	31.6	0.00	**	.90	3.00	11	1	68.900	0.00
12	2	30.28	1.50	49.5	1.39	45.8	.11	**	1.50	3.00	12	2	18.200	0.00
13	3	29.33	1.80	61.4	1.52	52.0	.28	**	1.80	3.00	13	3	7.030	0.00
14	1	29.53	.90	30.5	.90	30.5	0.00	**	.90	3.00	14	1	71.400	0.00
15	2	28.12	.90	32.0	.78	27.6	.12	**	.90	3.00	15	2	17.000	0.00
16	3	28.33	1.20	42.4	.91	32.2	.29	**	1.20	3.00	16	3	6.830	0.00
17	4	27.84	1.70	61.1	1.14	41.0	.56	**	1.70	3.00	17	4	3.340	0.00
18	2	37.42	1.00	26.7	.92	24.5	.08	**	1.00	3.00	18	2	22.600	0.00
19	3	31.16	1.10	35.3	.85	27.2	.25	**	1.10	3.00	19	3	7.520	0.00
20	4	32.65	1.60	49.0	1.15	35.2	.45	**	1.60	3.00	20	4	3.920	0.00
21	5	33.39	2.10	62.9	1.38	41.2	.72	**	2.10	3.00	21	5	2.280	0.00
22	3	46.41	1.10	23.7	.95	20.6	.15	**	1.10	3.00	22	3	11.200	0.00
23	4	38.12	1.10	28.9	.74	19.3	.36	**	1.10	3.00	23	4	4.600	0.00
24	5	42.06	1.80	42.8	1.27	30.2	.53	**	1.80	3.00	24	5	2.880	0.00
25	6	44.01	2.00	45.4	1.24	28.2	.76	**	2.00	3.00	25	6	1.880	0.00