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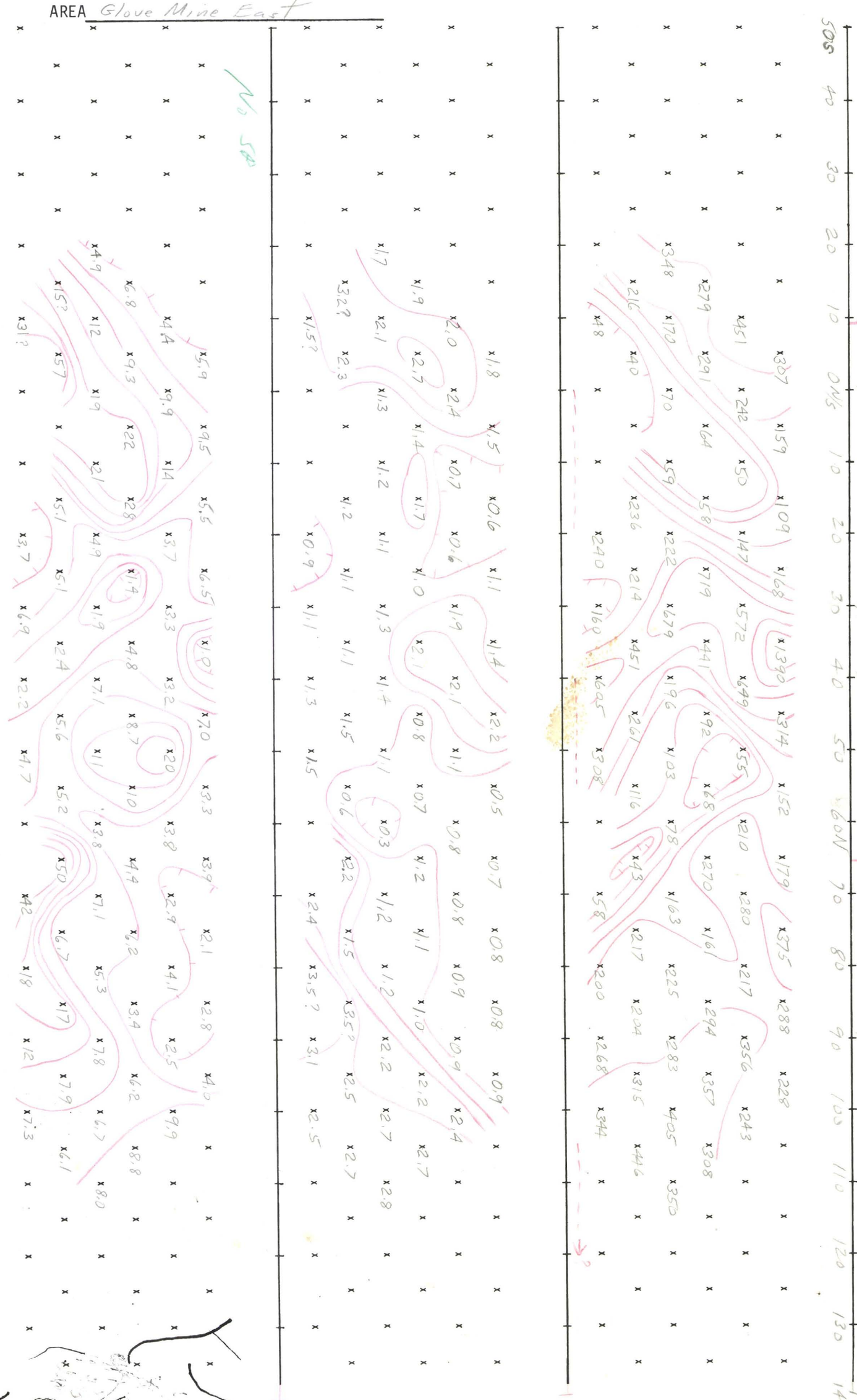
JOB# 716 LINE# 1 SP 1 & 2 a = 1000' LOOKING N65°W

CLIENT CF&I Steel Corp. DATE June 1972 FREQUENCIES 0.3 & 3.0 Hz

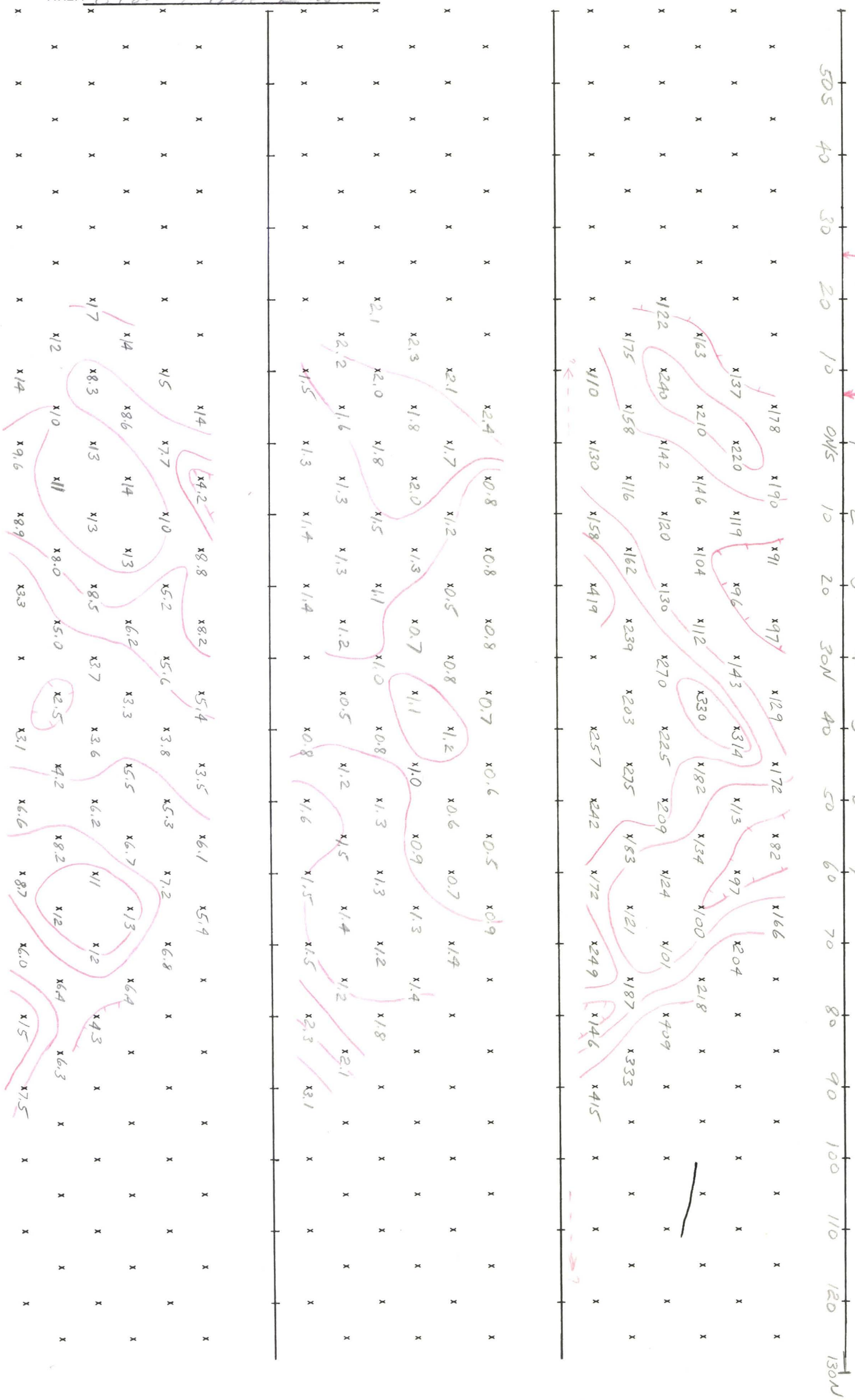
AREA Glove Mine East



JOB# 716 LINE# 2 SP 1 a = 1000' LOOKING N65W

CLIENT CF&I Steel Corp. DATE June 1972 FREQUENCIES 0.3 & 3.0 Hz

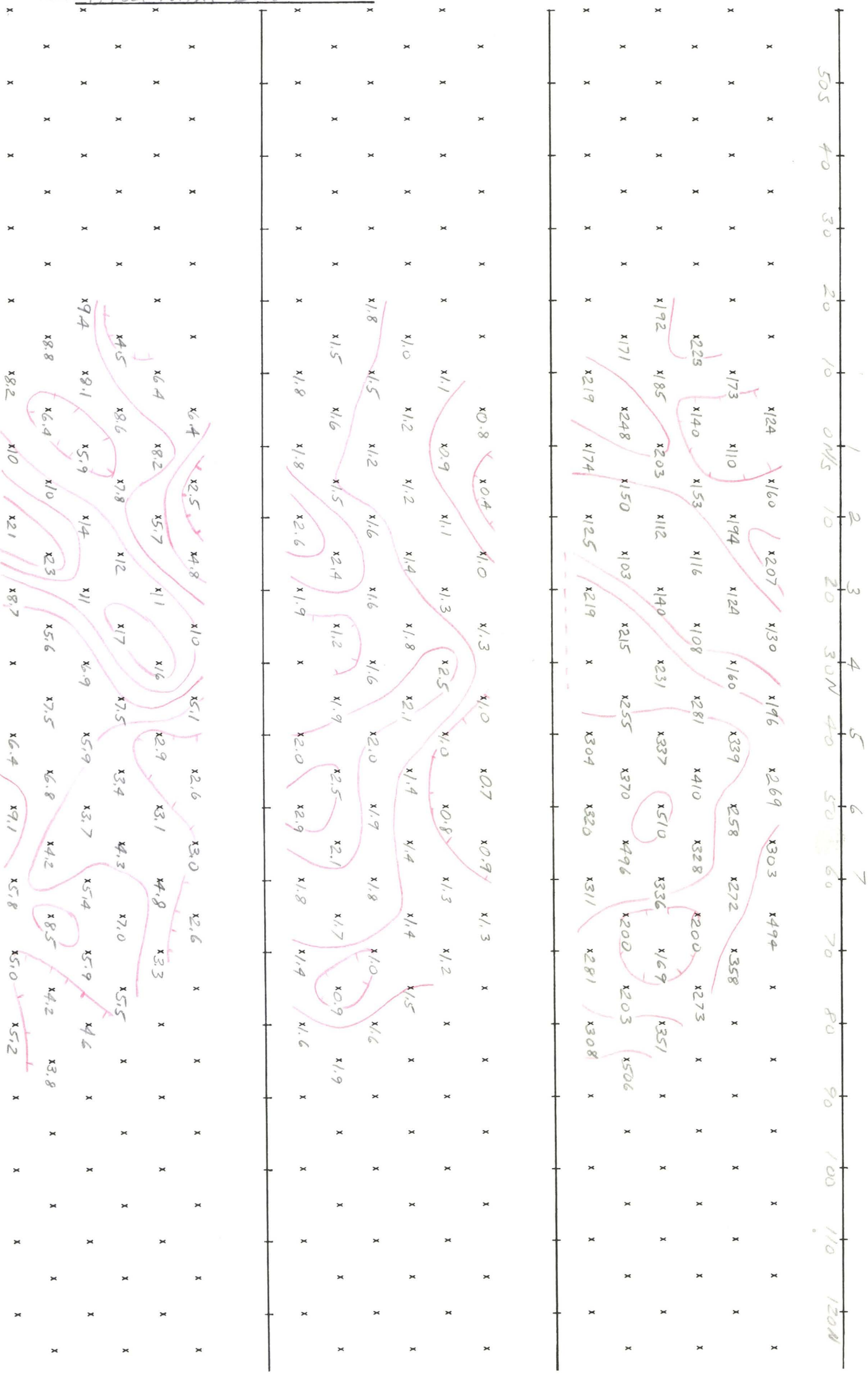
AREA Glove Mine East



JOB# 716 LINE# 3 SP 1 a = 1000' LOOKING N65W

CLIENT CF&I Steel Corp. DATE June 1972 FREQUENCIES 0.3 & 3.0 Hz

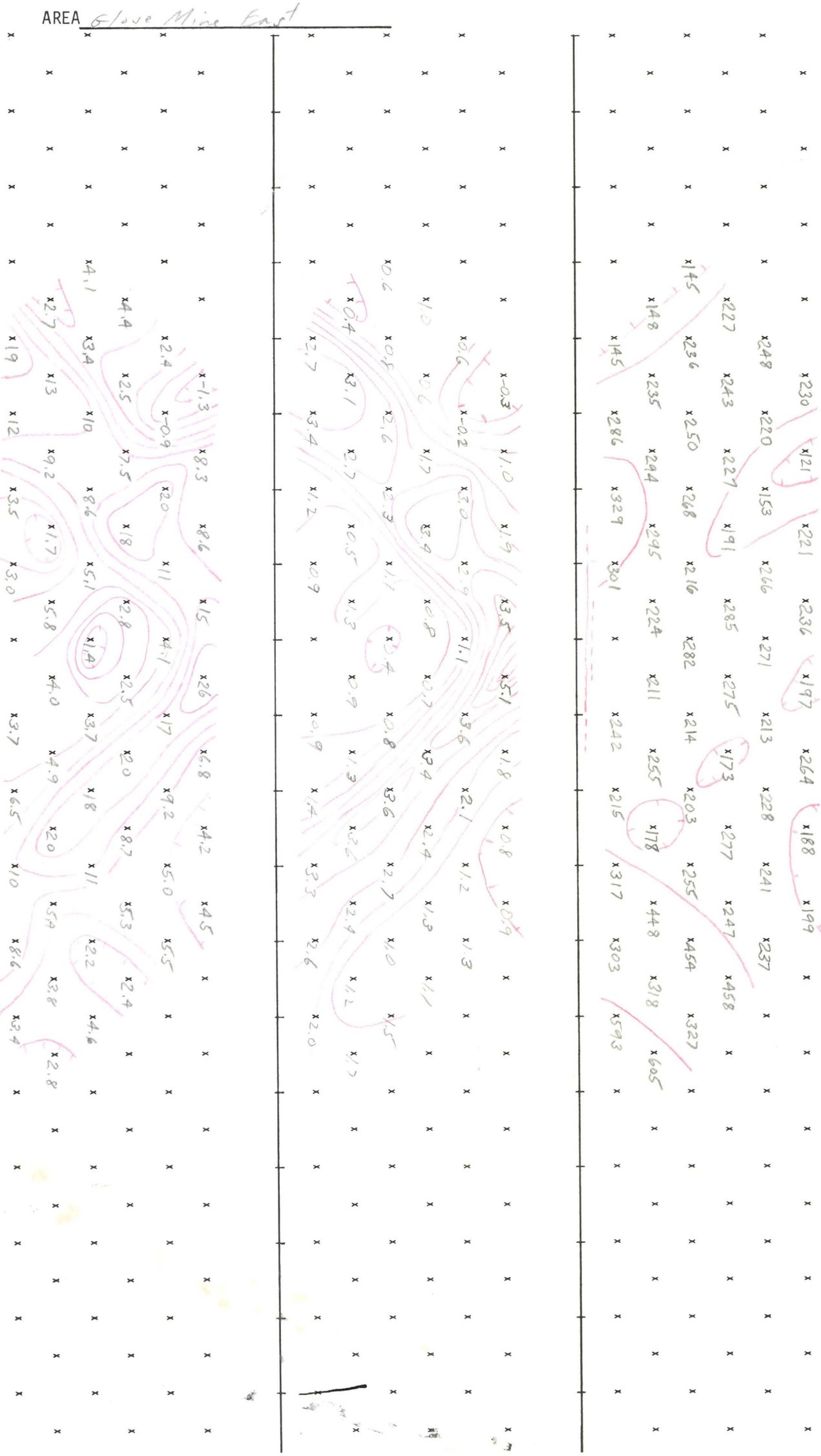
AREA Glove Mine East



JOB# 716 LINE# 4 SP 1 a = 1000' LOOKING N65W

CLIENT F&I Steel Corporation DATE June 1972 FREQUENCIES 0.3 & 3.0 Hz

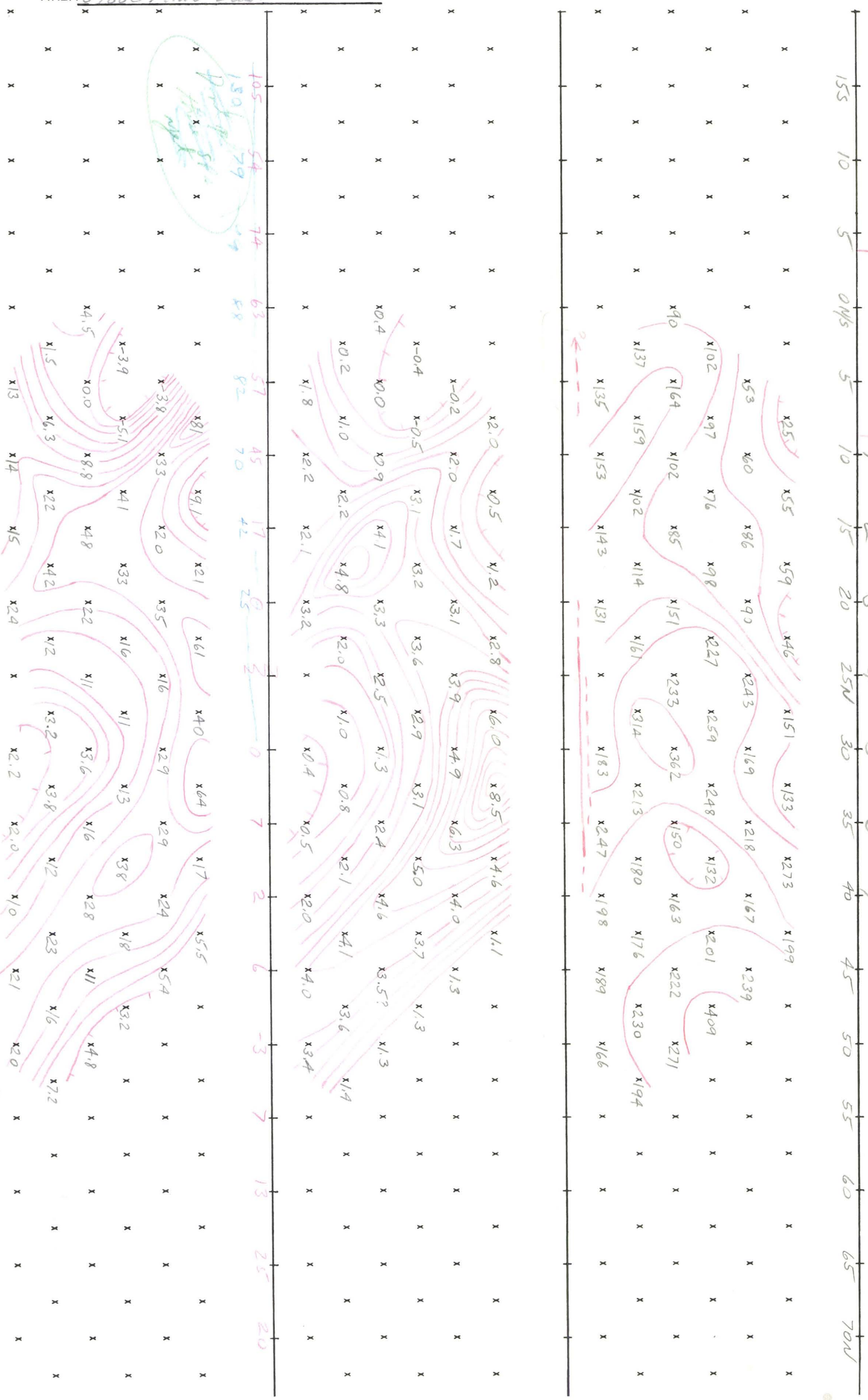
AREA Glove Mine East



JOB# 716 LINE# 4 SP 1 a = 500' LOOKING N65W

CLIENT CF&I Steel Corporation DATE June 1972 FREQUENCIES 0.3 & 3.0 Hz

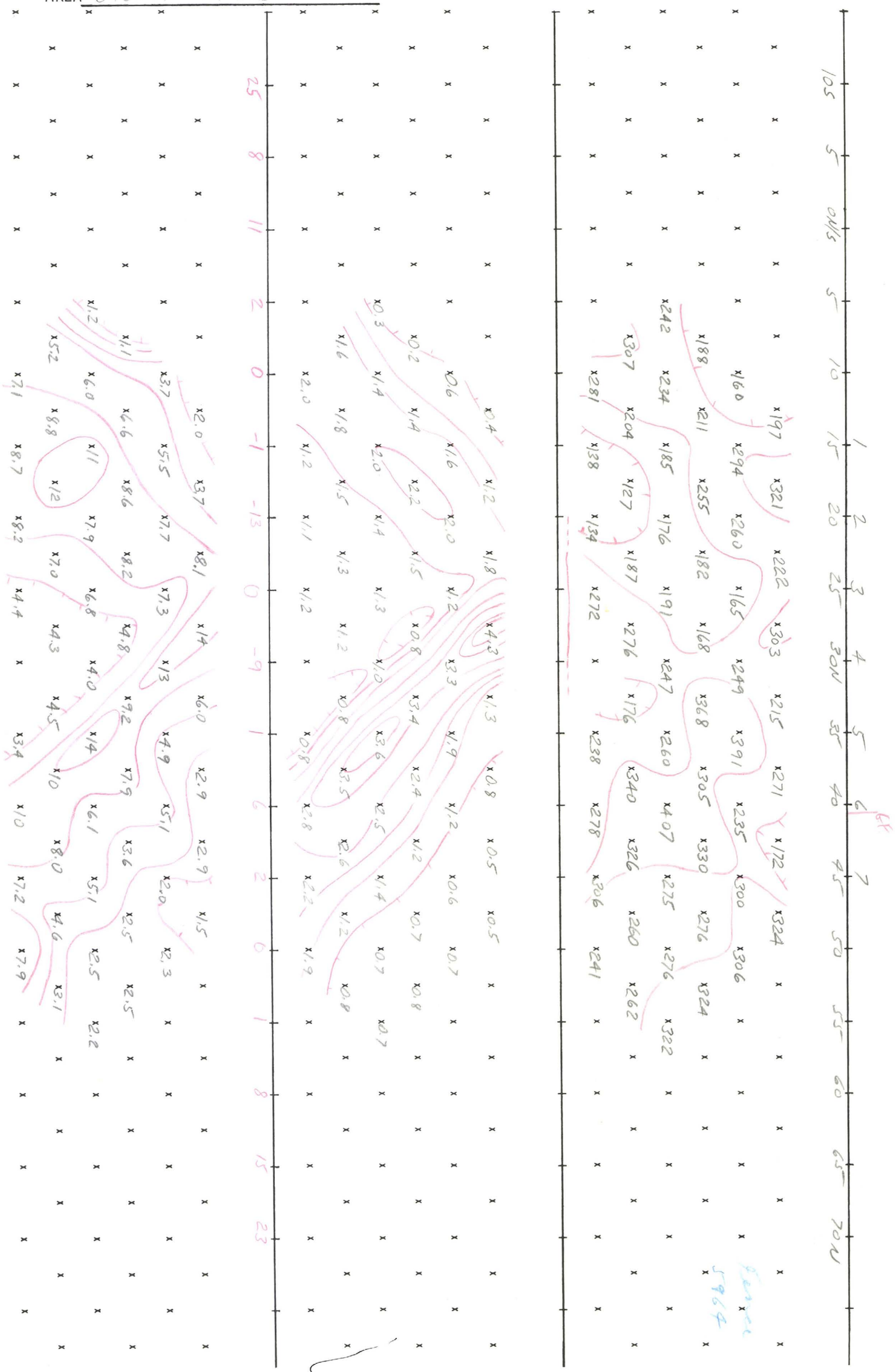
AREA Glove Mine East



JOB# 716 LINE# 5 SP 1 a = 500 LOOKING N65W

CLIENT CF&I Steel Corporation DATE June 1972 FREQUENCIES 0.3 & 3.0 Hz

AREA Glove Mine East

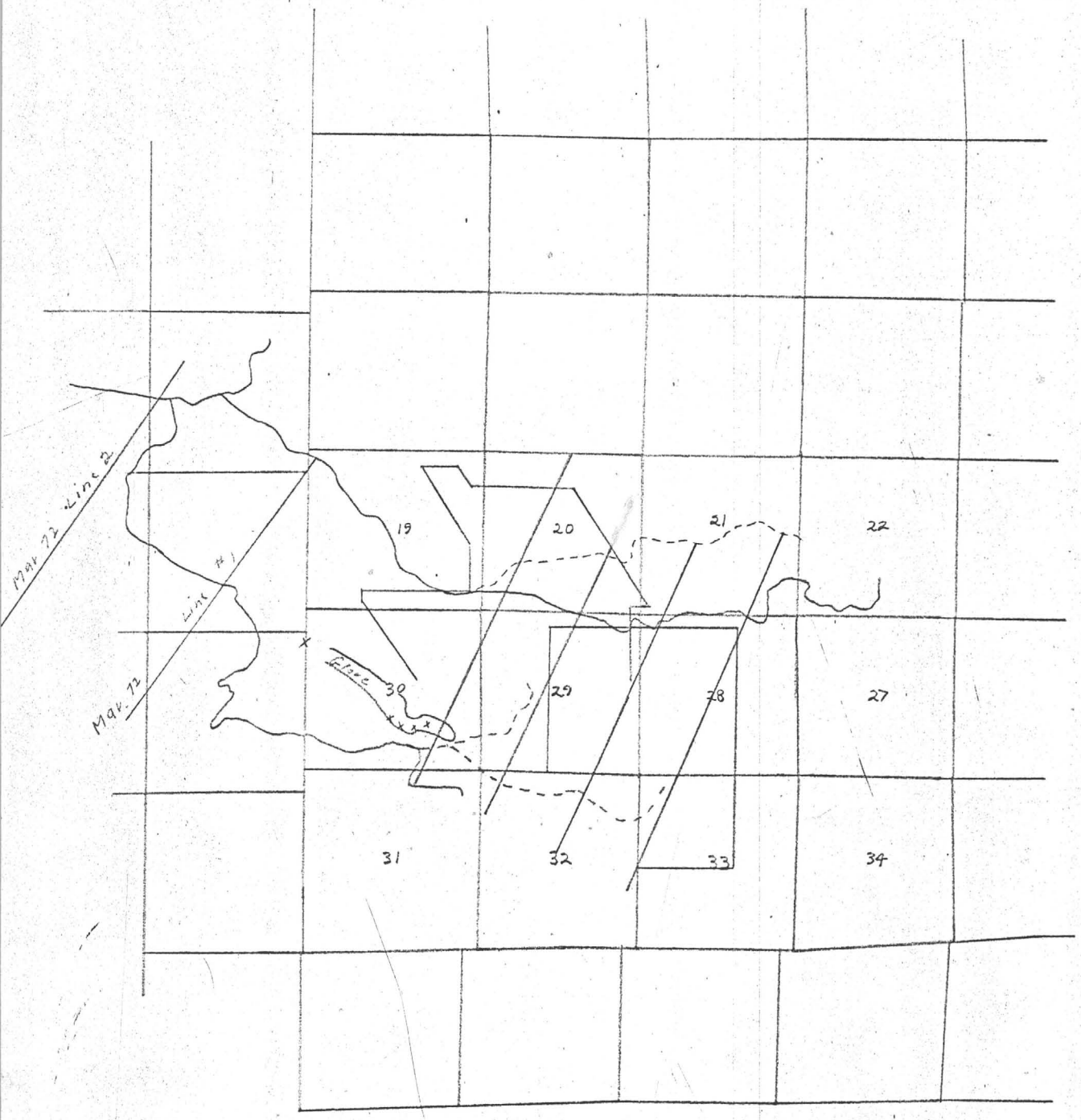


JOB# 716 LINE# 3.5 SP 1 a = 500 LOOKING N65W

CLIENT CF&I Steel Corporation DATE June 1972 FREQUENCIES 0.3 & 3.0 Hz

AREA Glove Mine East

R 14 E



T20S

I-614

Santa Rita Reconnaissance #2
Proposed IP Profiles
1:62500
5/9/72 JRB

Job #6, LINE 1, Spreads 1 & 2, N + S½, 5/31/72 1000.

PAGE 1

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT # 716 Glove
LINE 1 HALF 5 SP. 1 DATE 5/13/72

SEND	CAL	3-4	2-3	3-4	1-2	2-3	3-4	1-2	2-3	3-4
RECEIVE	1-2	10N-0MS	0-10S	→	10-20S	→	→	20-30S	→	→
RANGE	1	1	1	0.1	10	0.1	0.1	1.0	0.1	0.1
DC 1	-0.1	0.5	1.4	0.6	1.7	2.3	1.3	1.9	2.6	1.1
DC 2										
DC 3										
DC 4 Per	0.5	1.2	.48	1.2	—	.48	1.2	—	.48	1.2
DC 5 #	1	1	2	3	4	5	6	7	8	9
DC 6 n		1	1	2	1	2	3	2	3	4
DC 7										
DC 8										
DC AVG.										
AC 1	50.2	43.6	25.1	5.01	121.	9.50	2.53	44.4	4.55	1.38
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.2
AC AVG.	3.0									
S.P.	0.3	+13.3	+14.9	→	+10.8	→	→	+11.4	→	→
AC NOISE					GF @ 9.3S					
POT RES.		4.7K	2.5K	→	2.4K					3.0K

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT 716 Glove

LINE 1 HALF 5 SP. 1 DATE 5/31/22

SEND	1-2	2-3	3-4	1-2	2-3	3-4				
RECEIVE	30-405	→	→	40-505	→	→				
RANGE	1.0	0.1	.01	0.1	.01	.01	0.1			
DC 1	1.8	2.0	2.3	1.6	~~2.2~~	~~5.0~~	1.6			
DC 2					~~4.0~~	~~2.2~~				
DC 3					(3.2)	(1.4)				
DC 4 Cu	—	.48	1.2	—	.48	1.2				
DC 5 #	10	11	12	13	14	15				
DC 6 n	3	4	5	4	5	6				
DC 7										
DC 8										
DC AVG.	4.0	4.44								
AC 1	11.00	1.34	.451	6.86	.958	.337	6.94			
AC 2	0.0	0.0	×0.2	0.0	×0.2	—	0.8			
AC AVG.	11.0	1.34								
S.P.	+4.3	→								
AC NOISE										
POT RES.	4.0K									

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Glove 716
LINE 1 HALF N SP. 2 DATE [illegible]

PAGE 1

SEND	Cal	4-5	5-6	4-5	3-4	2-3	1-2	6-7	5-6	4-
RECEIVE	4-5	6-7	90-100 N				3-	100-110N		
RANGE	10	10	10	1.0	0.1	.01	.01	10	10	1.0
DC 1	-.05	0.7	0.7	0.8	0.9	1.0	2.0	0.8	0.8	0.9
DC 2		3	4	3	.2	.3	.8	4	4	3
DC 3		16	17	18	19	20	21	22	23	24
DC 4		1	1	2	3	4	5	1	2	3
DC 5	unprovoked tones									
DC 6	60+600 N									
DC 7										
DC 8										
DC AVG.										
AC 1	300.4	374.4	382.0	54.0	1.07	.808	.325	302	118	29.2
AC 2	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	0.0	0.0	0.0
AC AVG.										
S.P.		+3.4	+7.2					+13.6		
AC NOISE										
POT RES.		25k	26k					3.5k		

I.P. RECEIVER NOTES

PAGE 3

HEINRICHS GEOEXPLORATION CO. PROJECT Clore 716

LINE 1 BEARING N 25E HALF N SP. 2 DATE June 2

SEND	2-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3	6-7	5-6
RECEIVE	110-130N	→	→	110-120N	→			→	120-130	→
MULT.	0.1	.01	0.1	1.0	1.0	1.0	.01	.01	1.0	1.0
PFE	1.0	1.2	2.3	2.3	2.1	2.1	~~2~~	~~0~~	2.6	2.6
							3.2	3.9		
							~~4~~	~~5.3~~		
Per	.4	.3	.8	4	4	.3	.4	.3	4	4
#	25	26	27	28	29	30	31	32	33	34
n	4	5	6	2	3	4	5	6	3	4
PFE Avg.										
AC	1.49	.614	.269	79.3	46.7	13.9	.759	.346	40.2	26.4
DRIFT	-0.2	-0.3	0.0	0.0	0.0	0.0	-0.3	+0.4	0.0	0.0
S.P.								AC EDC		
AC NOISE	→	→	Noisy	7.0	→			Noisy	+18.0	→
POT RES.	→	→	OK	3.7k	→			→	4k	→

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Glove 716
LINE 1 HALF N SP. 2 DATE June 3

PAGE 3

SEND	4-5	3-4	6-7	5-6	4-5					
RECEIVE	130-130	→	130/141	→	→					
RANGE	0.1	.01	1.0	0.1	0.1					
DC 1	2.4	3.0	2.7	2.6	2.4					
DC 2										
DC 3										
DC 4 Sm	3	.4	4	2	3					
DC 5 #	35	36	37	38	39					
DC 6 n	5	6	4	5	6					
DC 7										
DC 8										
DC AVG.										
AC 1	8.42	.621	22.8	8.31	6.02					
AC 2	0.0	0.0	0.0	0.0	0.0					
AC AVG.										
S.P.			-13.0	→	→					
AC NOISE			—							
POT RES.		OK	3.5k	→	→					

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT [illegible]
LINE 1 HALF S SP. 2 DATE [illegible]

PAGE 1

SEND	0-1	5-6	6-7	4-5	5-6	6-7	3-4	4-5	5-6	6-7
RECEIVE	4-5	3-4	3-4	2-3	2-3	2-3	1-2			
RANGE	1.0	10	1.0	10	1.0	1.0	1.0	0.1	0.1	0.1
DC 1	-0.9	0.6	0.7	0.4	0.7	1.1	2.1	1.0	0.6	0.2
DC 2										
DC 3										
DC 4		3					.9	2		
DC 5		40	41	42	43	44	45	46	47	48
DC 6		1	2	1	2	3	1	2	3	4
DC 7										
DC 8										
DC AVG.										
AC 1	96.3	178.0	69.7	152.0	52.3	26.8	92.5	9.06	4.55	2.61
AC 2	0.0	0.0	0.0	0.0	0.0	—	0.0	0.0	0.0	0.0
AC AVG.										
S.P.		+9.7	→	+6.2	→	→	+19.7	→	→	→
AC NOISE										
POT RES.		40K	→				65K	→	→	→

Coil

1.0
0.0

60.1
0.0

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Glove 716
LINE 1 HALF 2 SP. 2 DATE June 2

SEND	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5	5-6
RECEIVE	3ON 2ON	—	—	—	—	2ON 1ON	—	—	—	—
RANGE	1.0	1.0	0.1	0.1	0.1	1.0	1.0	1.0	0.1	0.1
DC 1	1.3	2.0	0.7	1.0	0.5	1.0	1.8	2.0	1.3	1.3
DC 2										
DC 3										
DC 4 Cur	.6	—	1	2	—	.6	—	.9	3	—
DC 5 #	49	50	51	52	53	54	55	56	57	58
DC 6 n	1	2	3	4	5	1	2	3	4	5
DC 7										
DC 8										
DC AVG.										
AC 1	276.9	31.9	3.05	3.41	2.20	33.4	28.2	13.0	9.72	7.37
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1
AC AVG.										
S.P.	+5.7	—			—	-15.0	—	—	—	—
AC NOISE										
POT RES.	4.5K	—	—	—	—	6.5K	—	—	—	—

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Glove 716
LINE 1 HALF S SP. ____ DATE June 2

PAGE 2

SEND	6-7	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5
RECEIVE	20N 10N	10N-0	→	→	→	→	0-10S	→	→	→
RANGE	0.1	0.1	1.0	1.0	1.0	1.0	.01	0.1	0.1	0.1
DC 1	1.3	0.4	0.9	1.2	1.0	1.2	1.7	0.9	1.0	1.0
DC 2										
DC 3										
DC 4 cm	—	.6	—	.9	3	—	.6	—	.9	3
DC 5 #	59	60	61	62	63	64	65	66	67	68
DC 6 n	6	2	3	4	5	6	3	4	5	6
DC 7										
DC 8										
DC AVG.										
AC 1	5.44	7.36	14.3	10.1	12.8	10.7	1.15	2.21	1.82	2.83
AC 2	-0.1	-0.1	0.0	0.0	0.0	0.0	+0.3	-0.2	0.0	0.0
AC AVG.										
S.P.		-14.9	→	→	→	→	+17.9	→	→	→
AC NOISE										
POT RES.		20K	→	→	→	→	20K	→	→	→

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Glore 716
LINE ____ HALF S SP. 1 DATE June 2

PAGE 4

SEND	1-2	2-3	3-4							
RECEIVE	1-5-2-05	→	→							
RANGE	.01	0.1	0.1							
DC 1	1.0	0.9	0.9							
DC 2										
DC 3										
DC 4 lin	.6	—	.9							
DC 5 #	69	70	71							
DC 6 "	4	5	6							
DC 7										
DC 8										
DC AVG.										
AC 1	.582	1.34	1.28							
AC 2	-0.2	-0.4	0.0							
AC AVG.										
S.P.	+6.3	→	→							
AC NOISE										
POT RES.	15K	→	→							

Bearing N25°E

PAGE 1

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT 716 Calume

LINE 1 HALF S SP. 1 DATE 5/3/7

SEND	Cal	3-4	2-3	3-4	1-2	2-3	3-4	1-2	2-3	3-4
RECEIVE	1-2	1-2	0-10S	→	10-20S	→	→	20-30S	→	→
RANGE	5x240	5x240	2x240	5x240	5x240	2x240	5x240	5x240	2x240	5x240
VOLTAGE	?	900	440	900	750	440	900	750	440	900
CURRENT	1.2	1.2	.48	1.2	1.2	.48	1.2	1.2	.48	1.2
SEND	1-2	2-3	3-4	1-2	2-3	3-4				
RECEIVE	30-40S	→	→	40-50S	→	→				
RANGE	5x240	2x240	5x240	5x240	2x240	5x240				
VOLTAGE	750	440	900	750	440	900				
CURRENT	1.2	.48	1.2	1.2	.48	1.2				

FREQUENCIES 3.0 0.3

SENDER NO.

OPERATOR C. Upham

RECEIVER NO.

OPERATOR W.B + C.S.L.

COMMENTS:

Bearing N-25E

PAGE 1

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT 716 Glove

LINE 1 HALF N SP. 2 DATE June

SEND	Cal	4-5	5-6	4-5	3-4	2-3	1-2	6-7	5-6	4-5
RECEIVE	4-5	6-7	90-100N	→	→	→	→	100 110N	→	→
RANGE	10 X 200	3 X 100	10 X 400		1 X 200	1 X 300	2 X 400	20 X 200	20 X 200	10 X 300
VOLTAGE	300	520	600		120	240	400	640	580	500
CURRENT	2.0	3.0	4.0	3?	.2	.3	.8	4.0	4.0	3.0
SEND	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3	6-7	5-6
RECEIVE	→	→	→	110 120N	→	→	→	→	120 130N	→
RANGE	2 X 200	1 X 300	2 X 400	20 X 200	20 X 200	10 X 300	2 X 200	1 X 300	20 X 200	20 X 200
VOLTAGE	240	240	400	580	580	500	240	240	640	580
CURRENT	.4	.3	.8	4.0	4.0	3.0	.4	.3	4.0	4.0

FREQUENCIES _____ _____

SENDER NO.

OPERATOR

RECEIVER NO.

OPERATOR

COMMENTS:

Same Cal line 5 as on line 2

PAGE 2

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT _____

LINE 1 HALF N SP. 2 DATE June 2

SEND	4-5	3-4	6-7	5-6	4-5					
RECEIVE	→	→	130 140N	→	→					
RANGE	10X300	2X200	20X200	10X200	10X300					
VOLTAGE	500	240	640	300	500					
CURRENT	3.0	.4	4.0	2.0	3.0					
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES _____ _____

SENDER NO.

OPERATOR

RECEIVER NO.

OPERATOR

COMMENTS:

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT _____

LINE 1 HALF S SP. 2 DATE June 2

SEND	Pal	5-6	6-7	4-5	5-6	6-7	3-4	4-5	5-6	6-7
RECEIVE	4-5?			50N	→	→	40N	→	→	→
RANGE	1 X100	10X300	10X300	10X300	10 X300	10X300	3X300	10X200	10X200	10X200
VOLTAGE	120	300	340	380	300	340	600	250	220	240
CURRENT	1	3.0	3.0	3.0	3.0	3.0	.9	2.0	2.0	2.0
SEND	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5	5-6
RECEIVE	30N	→	→	→	→	20N	→	→	→	→
RANGE	3X200	3X200	10X100	10X200	10X200	3X200	3X200	3X300	10X300	10X300
VOLTAGE	560	400	190	220	260	410	560	600	380	320
CURRENT	.6	.6	1.0	2.0	2.0	.6	.6	.9	3.0	3.0

FREQUENCIES _____ _____

SENDER NO.

OPERATOR

RECEIVER NO.

OPERATOR

COMMENTS:

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT _____

LINE 1 HALF S SP. 2 DATE June 2

SEND	6-7	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5
RECEIVE	→	10N	→	→	→	→	0-105	→	→	→
RANGE	10X300	3X200	3X200	3X300	10X300	10X300	3X200	3X200	3X300	10X300
VOLTAGE	350	420	580	600	380	310	420	580	600	380
CURRENT	3.0	.6	.6	.9	3.0	3.0	.6	.6	.9	3.0
SEND	1-2	2-3	3-4							
RECEIVE	205	→	→							
RANGE	3X200	3X200	3X300							
VOLTAGE	420	580	600							
CURRENT	.6	.6	.9							

FREQUENCIES _____ _____

SENDER NO.

OPERATOR

RECEIVER NO.

OPERATOR

COMMENTS:

PAGE 1

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT 716 Glove

LINE 1 HALF 5 SP. 1 DATE 5/13/72

SEND	CAL	3-4	2-3	3-4	1-2	2-3	3-4	1-2	2-3	3-4
RECEIVE	1-2	1-2	0-105	→	10-205	→	→	20-305	→	→
RANGE	200+40 x5	200+40 x5	200+40 x2	200+40 x5	200+40 x5	200+40 x2	200+40 x5	200+40 x5	200+40 x2	200+40 x5
VOLTAGE	0.5	900	440	900	750	440	900	750	440	900
CURRENT	1.2	1.2	~~.5~~ .48	1.2	1.2	.5	1.2	1.2	.5	1.2
SEND	1-2	2-3	3-4	1-2	2-3	3-4				
RECEIVE	30-405	→	→	40-505	→	→				
RANGE	200+40 x5	200+40 x2	200+40 x5	200+40 x5	200+40 x2	200+40 x5				
VOLTAGE	750	440	900	750	440	900				
CURRENT	1.2	.4	1.2	1.2	.5	.8?				

FREQUENCIES 3.0 0.3

SENDER NO.

OPERATOR Chris. Upham #51

RECEIVER NO.

OPERATOR W. Berryman & C. SL.

COMMENTS: 0.48 1.2

PAGE 1

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT 716 - GLOVE

LINE 1 HALF N SP. #2 DATE June 2

SEND	Cal	4-5	5-6	4-5	3-4	2-3	1-2	6-7	5-6	4-5
RECEIVE	4-5	6-7	90-100N	→			→	100-110 N	→	
RANGE	200+ 8X10 R	1/2 x 2,000 3X10	4 X10	3 X 10	1X20	1X30	2X40	20X20	20X20	10X30
VOLTAGE	300 v	~~320~~	300 600	310	120	240	400	640	580	~~1000~~ 300
CURRENT	2.0	.3	.44	.3	.2	.3	.8	4	4	3
SEND	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3	6-7	5-6
RECEIVE	→		→	110-120N	→			→	120-130N	→
RANGE	2X20	1X30	2X40	20X20	20X20	10X30	2X20	1X30	20X20	20X20
VOLTAGE	240	240	400	580	580	1000	240	240	640	580
CURRENT	.21	.3	.8	4	4	3	.24	.3	4	4

FREQUENCIES 3 .3

SENDER NO. ←

OPERATOR Upham

RECEIVER NO. ←

OPERATOR Berryman

Please fill in serial #s

COMMENTS: Sent calibration June 5th AS ON June 2nd

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Glove 716

LINE 1 HALF N SP. 2 DATE June 2

PAGE 2

SEND	4-5	3-4	6-7	56	4-5					
RECEIVE	←	→	120-140M	—	—					
RANGE	10x30	2x20	20x20	10x20	10x30					
VOLTAGE	500	240	640	300	500					
CURRENT	3	.4	4	2	3					
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES 3 3

SENDER NO.

OPERATOR Upham

RECEIVER NO.

OPERATOR Berryman

COMMENTS:

note change sender

PAGE 1

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT 716 GLOVE

LINE 1 HALF 5 SP. 2 DATE [illegible]

SEND	Cal 45	5-6	6-7	4-5	5-6	6-7	3-4	4-5	5-6	6-7
RECEIVE	60 N	→	→	50 N	→	→	40 N	→	→	→
RANGE	1X10	10X30	10X30	10X30	10X30	10X30	3X30	10X20	10X20	10X20
VOLTAGE	120	300	340	380	300	340	600	250	220	240
CURRENT	1	3	3	3	3	3 MK	MK7 3	2	2	2
SEND	2-3	3-4	5-6	6-7	1-2	2-3	3-4	4-5	5-6	6-7
RECEIVE	30 N	→	→	→	20 N	→	→	→	→	→
RANGE	3X20	3X20	10X20	10X20	3X20	3X20	3X30	10X30	10X30	10X30
VOLTAGE	560	400	220	260	410	560	600	380	320	350
CURRENT	.6	.6	2	2	.6	.6	.9	3	3	3

FREQUENCIES 3 .3

SENDER NO. MC4 + MK5-7

OPERATOR Upham

RECEIVER NO.

OPERATOR Berryman

COMMENTS:
4-5
30 N
10X10
190

This sender's V meter probably needs work. Change sender. J.B.

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT 716 Glove

LINE 1 HALF S SP. 2 DATE June 2

PAGE 2

SEND	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5	1-2
RECEIVE	10 N	→				0-105	→			205
RANGE	3x20	3x20	3x30	10x30	10x30	3x20	3x20	3x30	10x3	3x20
VOLTAGE	420	580	600	380	310	420	580	600	380	420
CURRENT	.6	.6	.9	3	3	.6	.6	.9	3	.6
SEND	2-3	3-4								
RECEIVE	→									
RANGE	3x20	3x30								
VOLTAGE	580	600								
CURRENT	.6	.9								

FREQUENCIES _____ _____

SENDER NO.

OPERATOR

RECEIVER NO.

OPERATOR

COMMENTS:

MIC 5-7

~~#~~ 96625

Fri night
Treat Cir

42368
42129

249
20

2 | 26.9

134

Job 716, Line 2, Spread 1, N½, 6/12/72 1000.

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT Glove

LINE 2 HALF N SP. 1 DATE 12 June

SEND	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2	5-6	4-5
RECEIVE	Cal	5-6	→	→	6-7	→	→	→	6000-7000	→
RANGE	1.0	1.0	1.0	1.0	10	1.0	1.0	1.0	1.0	1.0
DC 1	-0.1	0.6	0.7	0.6	0.5	1.1	1.0	0.9	0.4	0.5
DC 2										
DC 3										
DC 4 Cu	1	2	—	4	—	2	—	4	—	—
DC 5 #	1	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	101.0	86.1	23.9	15.0	230.0	52.3	22.0	18.0	109.8	37.8
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.	3.0									
S.P.	0.3	+21.9	→	→	+11.8	→	→	→	-7.5	→
AC NOISE										
POT RES.		17k	→	→	20k	→	→	→	17k	→

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES N1

PROJECT Blone
LINE 2 HALF N SP. 1 DATE 12 June N2

PAGE 2

SEND	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3	1-2	6-7
RECEIVE				7000 8000						8000 9000
RANGE	1.0	0.1	0.1	10	1.0	1.0	1.0	0.1	0.1	1.0
DC 1	0.9	0.7	0.4	0.9	0.6	0.8	1.2	1.1	0.7	1.2
DC 2										
DC 3										
DC 4	2	—	3	—	4	—	3	2	3	—
DC 5 #	10	11	12	13	14	15	16	17	18	19
DC 6 n	3	4	5	1	2	3	4	5	6	2
DC 7										
DC 8										
DC AVG.										
AC 1	12.1	7.50	5.84	166.0	32.4	17.9	10.4	5.72	4.59	50.9
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	+0.1	0.0	0.0
AC AVG.										
S.P.	—	—	—	+11.0	—				—	+23.1
AC NOISE										
POT RES.	—	—	—	25k	—				—	25k

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Glone
LINE 2 HALF N SP. 1 DATE 12 June

PAGE 3

SEND	5-6	4-5	3-4	2-3	6-7 N-3	5-6	4-5	3-4	6-7	5-6
RECEIVE	→	→	→	→	9000 10000	→	→	→	10000 11000	→
RANGE	0.1	0.1	0.1	0.1	1.0	0.1	0.1	0.1	1.0	0.1
DC 1	1.2	1.2	1.4	1.5	1.3	1.1	1.3	1.4	1.7	1.1
DC 2										
DC 3										
DC 4 Cm										
DC 5 #	20	21	22	23	24	25	26	27	28	29
DC 6 "	3	4	5	6	3	4	5	6	4	5
DC 7										
DC 8										
DC AVG.										
AC 1	9.97	6.19	5.21	4.29	21.7	5.03	3.44	3.05	20.3	5.33
AC 2	+0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	+.05	0.0
AC AVG.										
S.P.	→	→	→	→	-5.2	→	→	→	+1.0	→
AC NOISE										
POT RES.	→	→	→	→	20k	→	→	→	20k	→

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Clone
LINE 2 HALF N SP. 1 DATE 12 June

SEND	4-5	6-7	5-6	6-7						
RECEIVE	→	11000 12000	→	12000 13000						
RANGE	0.1	0.1	0.1	0.1						
DC 1	1.4	2.0	2.0	3.0						
DC 2										
DC 3										
DC 4 Sum										
DC 5 #	30	31	32	33						
DC 6 m	6	5	6	6						
DC 7										
DC 8										
DC AVG.										
AC 1	4.42	9.44	2.58	7.26						
AC 2	0.0	0.0	+0.1	0.0						
AC AVG.										
S.P.	→	+3.1	→	+29.9						
AC NOISE										
POT RES.	→	25k	→	40k						

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Blone

LINE 2 HALF N SP. 1 DATE 2 Jun

PAGE 1

SEND	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2	5-6	4-5
RECEIVE	Cal	5-6	→		6-7	→			6000 7000	
RANGE	5x20	10x20	10x20	10x40	20x20	10x20	10x20	10x40	10x40	20x20
VOLTAGE	50	180	180	280	200	180	180	280	200	200
CURRENT	1	2	2	4	4	2	2	4	4	4
SEND	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3	1-2	6-7
RECEIVE				7000 8000	→					8000 9000
RANGE	10x20	10x20	10x30	10x30	10x40	10x40	10x30	10x20	10x30	10x30
VOLTAGE	180	180	200	300	200	200	240	180	300	300
CURRENT	2	2	3	3	4	4	3	2	3	3

FREQUENCIES 3 .3

SENDER NO. MK 4

OPERATOR Upham

RECEIVER NO.

OPERATOR Barrymo

COMMENTS:

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Glove-216

LINE 2 HALF N SP. 1 DATE 12 June

SEND	5-6	4-5	3-4	2-3	6-7	5-6	4-5	3-4	6-7	5-6
RECEIVE	→			→	9000 10000	→			10000 11000	→
RANGE	10x30	10x30	10x30	10x30	10x30	10x30	10x30	10x30	10x30	10x30
VOLTAGE	170	180	240	240	300	180	180	220	300	180
CURRENT	3	3	3	3	3	3	3	3	3	3
SEND	4-5	6-7	5-6	6-7						
RECEIVE	→	11000 12000	→	12000 13000						
RANGE	10x30	10x30	10x30	10x30						
VOLTAGE	180	300	180	180						
CURRENT	3	3	3	3						

FREQUENCIES 3 , 3

SENDER NO. MK 4

OPERATOR Upham

RECEIVER NO.

OPERATOR Belbagrew

COMMENTS:

Job 716, Line 2, Spread 1, 5½, 6/12/72 1000

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Stone
LINE 2 HALF S SP. 1 DATE 12 June

SEND	Cal	4-5	3-4	4-5	2-3	-3-4	4-5	5-6	6-7	1-2
RECEIVE	4-5	2-3	12	→	0 1000S	—	—	—	→	1000 2000S
RANGE	1.0	1.0	1.0	1.0	10	1.0	1.0	0.1	0.1	10
DC 1	0.1	0.7	0.7	0.4	0.7	1.1	1.2	1.0	1.1	2.3
DC 2										
DC 3										
DC 4 Cur	1	3	—	—	—	—	—	4	—	3
DC 5 #	2	1	2	3	4	5	6	7	8	9
DC 6 n		1	1	2	1	2	3	4	5	1
DC 7										
DC 8										
DC AVG.										
AC 1	100.8	97.4	91.2	24.1	190.0	29.6	10.3	8.61	9.07	175.0
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.	3.0									
S.P.	0.3	-21.2	+8.1	→	+18.7	—	—	—	—	+16.1
AC NOISE										
POT RES.		17k	18k	→	13k	—	—	—	→	20k

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT Globe

LINE 2 HALF S SP. 1 DATE 12 June

PAGE 7

SEND	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5	5-6
RECEIVE						2000 3000				
RANGE	1.0	1.0	0.1	0.1	0.1	1.0	1.0	1.0	0.1	0.1
DC 1	1.6	1.9	1.4	1.3	1.2	2.0	1.7	1.8	1.2	1.2
DC 2										
DC 3										
DC 4 Sn				4	3	6				
DC 5 #	10	11	12	13	14	15	16	17	18	19
DC 6 n	2	3	4	5	6	2	3	4	5	6
DC 7										
DC 8										
DC AVG.										
AC 1	54.5	14.4	5.47	6.12	7.43	67.8	41.5	14.0	65.9	7.1
AC 2	0.0	0.0	0.0	+0.2	0.0	0.0	0.0	+0.2	0.0	+0.2
AC AVG.										
S.P.						±12.2				
AC NOISE										
POT RES.						18K				

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Colone
LINE 2 HALF S SP. 1 DATE 12 June

SEND	1-2	2-3	3-4	4-5	1-2	2-3	3-4	1-2	2-3	
RECEIVE	3000 4000	→	→	→	4000 5000	→	→	5000 6000	→	
RANGE	1.0	1.0	0.1	0.1	1.0	0.1	0.1			
DC 1	2.0	1.9	1.5	—	2.0	2.0	1.4			
DC 2				1.3						
DC 3				1.4						
DC 4 Gain	→	→	→	→	→	→	→			
DC 5 #	20	21	22	23	24	25	26			
DC 6 M	3	4	5	6	4	5	6			
DC 7										
DC 8										
DC AVG.										
AC 1	32.2	23.7	8.34	4.63	17.0	9.87	3.91			
AC 2	0.0	0.0	0.0	+0.3	0.0	-0.1	0.0			
AC AVG.										
S.P.	+16.2	→	→	→	+16.5	→	→			
AC NOISE										
POT RES.	15K	→	→	→	20K	→	→			

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Glove

LINE 2 HALF S SP. 1 DATE 12 Jun

PAGE 1

SEND	4-5	4-5	3-4	4-5	2-3	3-4	4-5	5-6	6-7	1-2
RECEIVE	Cal	2-3	1-2	—	0 10000S	—	—	—	S	2000 3000S
RANGE	10X10	10X30	10X30	10X30	10X30	10X30	10X30	10X40	10X40	10X30
VOLTAGE	~~[illegible]~~ 50	160	210	180	240	220	220	200	300	200
CURRENT	1	3	3	3	3	3	3	4	4	3
SEND	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5	5-6
RECEIVE	—	—	—	—	→	2000 3000	—	—	—	→
RANGE	10X30	10X30	10X30	10X40	10X30	20X30	20X30	20X30	20X30	20X30
VOLTAGE	230	220	180	200	200	350	400	400	300	260
CURRENT	3	3	3	4	3	6	6	6	6	6

FREQUENCIES 3 .3

SENDER NO. Mark 4

OPERATOR Upham

RECEIVER NO.

OPERATOR Berryman

COMMENTS:

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Glove 716

LINE 2 HALF 5 SP. 1 DATE 12 Nov

PAGE 2

SEND	1-2	2-3	3-4	4-5	1-2	2-3	3-4	1-2	2-3	
RECEIVE	3000 4000	→	→	→	4000 5000	→	→	5000 6000	→	
RANGE	20x30	20x30	20x30	20x30	20x30	20x30	20x30			
VOLTAGE	350	440	400	300	370	420	400			
CURRENT	6	6	6	6	6	6	6			
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES 3 3

SENDER NO. MK 4

OPERATOR

RECEIVER NO.

OPERATOR

COMMENTS:

① The Sender currents are in Amps not ma

~~200 x 4~~

20 x 30 is 200 ma x 300 ma ?? (ma)²

② Chris did not use the pot — This was set at zero all day

③ He seems to have been confused on the voltage scales: full scale = 1000, or 500. He <u>Thinks</u> he was probably using the 500 v full scale. Note discrepancy on pits 4-5 cal + sending

PAGE

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT _____

LINE _____ HALF _____ SP. _____ DATE _____

SEND										
RECEIVE										
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.										

rough Location

Sta #5 (4000 N)

on ridge top saddle

Sta #7 300' N of

road

Sta 4 350' NE of

Mine

Line #5

Spur 1.

PAGE

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT _____

LINE _____ HALF _____ SP. _____ DATE _____

SEND										
RECEIVE										
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.
POST OFFICE BOX 5964
TUCSON, ARIZONA (85703)
PHONE 623-0578

JOB 716, LINE 2, SPREAD 1, S 1/2, 6/12/72 1000 FEET=DIPOLE LENGTH
CAL GROUP NO. 2

CAL CUR	PFE	AC1	AC2	AC FREQ	DC FREQ	PFE CAL	RHO CAL
1.000	-.10	100.800	0.00	3.00	.30	-.1000	.9921

COMPUTED DATA									FIELD DATA					
POINT NO.	N	RHO	PFE	MCF	CCPFE	CCMCF	CPFE		PFE	CUR	PT.	N	AC1	AC2
1	1	97.40	.80	8.2	.72	7.4	.08	**	.70	3.00	1	1	97.400	0.00
2	1	91.20	.80	8.8	.72	7.8	.08	**	.70	3.00	2	1	91.200	0.00
3	2	96.11	.50	5.2	.21	2.2	.29	**	.40	3.00	3	2	24.100	0.00
4	1	190.00	.80	4.2	.80	4.2	0.00	**	.70	3.00	4	1	190.000	0.00
5	2	118.87	1.20	10.1	.98	8.3	.22	**	1.10	3.00	5	2	29.600	0.00
6	3	103.51	1.30	12.6	.70	6.7	.60	**	1.20	3.00	6	3	10.300	0.00
7	4	129.53	1.10	8.5	.27	2.1	.83	**	1.00	4.00	7	4	8.610	0.00
8	5	239.03	1.20	5.0	.60	2.5	.60	**	1.10	4.00	8	5	9.070	0.00
9	1	177.78	2.40	13.5	2.40	13.5	0.00	**	2.30	3.00	9	1	175.000	0.00
10	2	219.95	1.70	7.7	1.61	7.3	.09	**	1.60	3.00	10	2	54.500	0.00
11	3	145.71	2.00	13.7	1.62	11.1	.38	**	1.90	3.00	11	3	14.400	0.00
12	4	119.83	1.50	12.5	.58	4.8	.92	**	1.40	3.00	12	4	5.950	0.00
13	5	161.61	1.30	8.0	.28	1.7	1.02	**	1.30	4.00	13	5	6.120	.20
14	6	418.56	1.40	3.3	.97	2.3	.43	**	1.30	3.00	14	6	7.430	0.00
15	2	137.35	2.10	15.3	1.92	14.0	.18	**	2.00	6.00	15	2	67.800	0.00
16	3	209.56	1.80	8.6	1.57	7.5	.23	**	1.70	6.00	16	3	41.500	0.00
17	4	141.53	1.80	12.7	1.06	7.5	.74	**	1.80	6.00	17	4	14.000	.20
18	5	115.90	1.30	11.2	-.28	-2.4	1.58	**	1.20	6.00	18	5	6.590	0.00
19	6	157.86	1.40	8.9	-.19	-1.2	1.59	**	1.20	6.00	19	6	5.610	-.20
20	3	163.40	2.30	14.1	1.98	12.1	.32	**	2.20	6.00	20	3	32.200	0.00
21	4	239.82	2.00	8.3	1.64	6.8	.36	**	1.90	6.00	21	4	23.700	0.00
22	5	157.69	1.60	10.1	.55	3.5	1.05	**	1.50	6.00	22	5	8.940	0.00
23	6	130.41	1.25	9.6	-.78	-6.0	2.03	**	1.30	6.00	23	6	4.630	.30
24	4	121.55	2.10	17.3	1.20	9.8	.90	**	2.00	6.00	24	4	12.000	0.00
25	5	174.95	2.15	12.3	1.23	7.1	.92	**	2.00	6.00	25	5	9.870	-.10
26	6	110.24	1.50	13.6	-1.02	-9.2	2.52	**	1.40	6.00	26	6	3.910	0.00

Job 716, LINE 3, Spread 1, 5½, 6/15/72 1000.

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Clone 716
LINE 3 HALF S SP. 1 DATE June 15

PAGE 1

SEND	Cal	6-7	5-6	6-7	4-5	5-6	6-7	3-4	4-5	5-6
RECEIVE	4-5	4000 N 3000	3000 2000 N	→	2000 1000 N	→	→	1000 N 0	→	→
RANGE	1.0	10	10	10	10	1.0	1.0	10	1.0	1.0
DC 1	-0.05	0.6	0.9	0.9	1.2	2.4	2.0	0.9	1.2	1.7
DC 2	-0.1									
DC 3										
DC 4 Cen	1	4	—	—	6	4	—	6	—	—
DC 5 #	1	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	101.0	360.0	261.0	113.0	259.0	52.4	37.1	413.0	61.9	21.5
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.	3.0									
S.P.	0.3	+24.5	-6.7	→	+7.5	→	→	+20.2	→	→
AC NOISE										
POT RES.		20K	18K	→	15K	→	→	15K	→	→

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Glove 716
LINE 3 HALF S SP. 1 DATE 15 June

PAGE 2

SEND	6-7	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5
RECEIVE	→	0 1000S	→	→	→	→	1000 2000S	→	→	→
RANGE	1.0	10	1.0	1.0	0.1	0.1	10	1.0	1.0	1.0
DC 1	1.5	0.3	1.0	1.3	1.5	1.1	0.7	0.8	1.1	1.5
DC 2										
DC 3										
DC 4 Lin	4	6	—	—	4	—	6	—	—	—
DC 5 #	10	11	12	13	14	15	16	17	18	19
DC 6 n	4	1	2	3	4	5	1	2	3	4
DC 7										
DC 8										
DC AVG.										
AC 1	15.3	321.0	96.7	23.1	9.29	8.16	249.0	55.1	30.6	11.1
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.	→	-2.4	→	→	→	→	+27.5	→	→	→
AC NOISE										
POT RES.	→	13k	→	→	→	→	20k	→	→	→

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Glore 716
LINE 3 HALF S SP. 1 DATE Shu

SEND	5-6	6-7	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4
RECEIVE	→	→	2000 3000S	→	→	→	→	3000 4000S	→	→
RANGE	0.1	0.1	1.0	1.0	1.0	0.1	0.1	1.0	1.0	1.0
DC 1	2.2	1.8	1.0	1.1	1.1	1.4	2.5	0.9	1.4	1.5
DC 2										
DC 3										
DC 4 Tur	4	—	6	—	—	—	4	6	—	—
DC 5 #	20	21	22	23	24	25	26	27	28	29
DC 6 "	5	6	2	3	4	5	6	3	4	5
DC 7										
DC 8										
DC AVG.										
AC 1	38.7	5.16	86.2	28.0	20.3	8.52	2.93	44.5	18.4	14.1
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.	→	→	-1.6	→	→	→	→	+9.5	→	→
AC NOISE										
POT RES.	→	→	25k	→	→	→	→	22k	→	→

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Glove 716
LINE 3 HALF S SP. 1 DATE 15 Jun

PAGE 4

SEND	4-5	1-2	2-3	3-4						
RECEIVE	→	4000 Cows	→	→						
RANGE	0.1	1.0	0.1	0.1						
DC 1	1.7	1.7	1.4	1.7						
DC 2										
DC 3										
DC 4	→	→	→	→						
DC 5	30	31	32	33						
DC 6	6	4	5	6						
DC 7										
DC 8										
DC AVG.										
AC 1	6.15	19.0	9.72	7.75						
AC 2	0.0	0.0	0.0	0.0						
AC AVG.										
S.P.	→	+14.6	→	→						
AC NOISE										
POT RES.	→	17K	→	→						

Bearing N, 25°E

PAGE 1

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Glove 716

LINE 3 HALF S SP. 1 DATE 15 Jun

SEND	Cal	6-7	5-6	6-7	4-5	5-6	6-7	3-4	4-5	5-6
RECEIVE	4-5	4000 3000N	3000 2000N	→	2000 1000N	→	→	1000N 0	→	→
RANGE	5X200	20X200	20X200	20X200	20X300	20X200	20X200	20X300	20X300	20X200
VOLTAGE	120	700	400	700	300	400	700	350	300	400
CURRENT	1.0	4.0	4.0	4.0	6.0	4.0	4.0	6.0	6.0	6.0
SEND	6-7	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5
RECEIVE	→	0 1000S	→	→	→	→	1000S 2000S	→	→	→
RANGE	20X200	20X300	20X300	20X300	20X200	20X200	20X300	20X300	20X300	20X300
VOLTAGE	700	350	350	300	400	700	420	350	350	300
CURRENT	4.0	6.0	6.0	6.0	4.0	4.0	6.0	6.0	6.0	6.0

FREQUENCIES 3 .3

SENDER NO. 237065

OPERATOR U Pham

RECEIVER NO. 2575R

OPERATOR Berrquerk

COMMENTS:

Bearing N25°E

PAGE 2

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Clove 7/6

LINE 3 HALF S SP. 1 DATE 15 Aug

SEND	5-6	6-7	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4
RECEIVE	→	→	2000S 3000S	→	→	→	→	3000S 4000S	→	→
RANGE	20x200	20X200	20X 300	20 X 300	20X300	20X 300	20X200	20X300	20X 300	20 X 300
VOLTAGE	400	700	420	350	350	300	400	420	350	350
CURRENT	4.0	4.6	6.0	6.0	6.0	6.0	4.0	6.0	6.0	6.0
SEND	4-5	1-2	2-3	3-4						
RECEIVE	→	4000S 5000S	→	→						
RANGE	20X300	20X300	20X300	20X300						
VOLTAGE	300	420	350	350						
CURRENT	6.0	6.0	6.0	6.0						

FREQUENCIES 3 .3

SENDER NO. 237065

OPERATOR U Pham

RECEIVER NO. 2575R

OPERATOR Berryman

COMMENTS:

Job 716, Line 3, Spread 1, N½, 6/14/72 1000.

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT 716 Galore
LINE 3 HALF N SP. 1 DATE

PAGE 1

SEND	5-6	4-5	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3
RECEIVE	6000 7000 N	→	→	→	→	7000 8000 N	→	→	→	→
RANGE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
DC 1	0.8	0.7	1.3	1.9	1.8	1.2	1.2	1.3	1.8	2.4
DC 2										
DC 3										
DC 4 Ch.	4	6	—	—	—	3	—	6	—	—
DC 5 #	1	2	3	4	5	6	7	8	9	10
DC 6 M	1	2	3	4	5	1	2	3	4	5
DC 7										
DC 8										
DC AVG.										
AC 1	403.0	129.0	81.6	33.3	14.4	492.0	67.6	65.3	50.4	20.8
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.	+6.5	→	→	→	→	+30.2	→	→	→	→
AC NOISE										
POT RES.	30 k	→	→	→	→	35 k	→	→	→	→

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Stone File
LINE 3 HALF ___ SP. ___ DATE ___

SEND	1-2	6-7	5-6	4-5	3-4	2-3	6-7	5-6	4-5	3-4
RECEIVE	→	8000 9000 N	—	—	—	→	9000 10000	—	—	→
RANGE	0.1	1.0	1.0	1.0	1.0	1.0	1.0	0.1	1.0	0.1
DC 1	1.8	1.1	1.3	1.7	2.0	2.8	1.4	0.9	1.6	1.7
DC 2										
DC 3										
DC 4 Cu	4	2	3	6	—	—	2	3	6	—
DC 5 #	11	20'S OFF ground	13	14	15	16	17	18	19	20
DC 6 M	6	2	3	4	5	6	3	4	5	6
DC 7										
DC 8										
DC AVG.										
AC 1	7.16	59.5	19.9	33.3	28.0	11.2	18.1	8.43	11.3	11.00
AC 2	-0.1	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.	→	+3.8	—	—		→	+9.4	—	—	—
AC NOISE										
POT RES.	→	35k				→	30k	—	—	→

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT _____
LINE 3 HALF ____ SP. ____ DATE ____

SEND	6-7	5-6	4-5	6-7	5-6	6-7		Ant		
RECEIVE	10000 11000N	→	→	11000 12000N	→	12000 13000N		43		
RANGE	1.0	0.1	0.1	0.1	0.1			1.0		
DC 1	1.5	0.8	1.3	1.9	1.5			0.15		
DC 2								-0.1		
DC 3										
DC 4 Pen	2	3	6	2	3			1		
DC 5 #	21	22	23	24	25			1		
DC 6 #	4	5	6	5	6					
DC 7										
DC 8										
DC AVG.										
AC 1	11.6	5.78	9.97	9.52	5.46			100.8		
AC 2	0.0	+0.1	0.0	+0.2	0.0			0.0		
AC AVG.								3.0		
S.P.	+2.1	→	→	+22.1	→			0.3		
AC NOISE										
POT RES.	30K	→	→	30K	→					

Bearing N25E

PAGE 1

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Clove 716

LINE 3 HALF N SP. 1 DATE 14 Jun

SEND	5-6	4-5	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3
RECEIVE	6000 7000N	→				7000 8000	→			
RANGE	20x200	20x300	20x300	20x300	20x300	10x300	10x300	20x300	20x300	20x300
VOLTAGE	420	300	370	370	450	600	370	300	370	370
CURRENT	4.0	6.0	6.0	6.0	6.0	3.0	3.0	6.0	6.0	6.0
SEND	1-2	6-7	5-6	4-5	3-4	2-3	6-7	5-6	4-5	3-4
RECEIVE	→	8000 9000	→				9000 10000	→		
RANGE	20x200	10x200	10x300	20x300	20x300	20x300	10x200	10x300	20x300	20x300
VOLTAGE	320	400	370	300	370	370	400	360	300	370
CURRENT	4.0	2.0	3.0	6.0	6.0	6.0	2.0	3.0	6.0	6.0

FREQUENCIES 3 .3

SENDER NO. 237065

OPERATOR Upham

RECEIVER NO. 2575R

OPERATOR Berryman

COMMENTS:

Bearing N25E

PAGE 2

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Glove 716

LINE 3 HALF N SP. 1 DATE 14 Aug

SEND	6-7	5-6	4-5	6-7	5-6			Cal		
RECEIVE	10000 11000	→	→	11000 12000	→			4-5		
RANGE	10X200	10X300	20X300	10X200	10X300			5X200		
VOLTAGE	400	370	300	400	370			160		
CURRENT	2.0	3.0	6.0	2.0	3.0			1.0		
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES 3 .3

SENDER NO. 237065

OPERATOR Upham

RECEIVER NO. 2575R

OPERATOR Berryman

COMMENTS:

Cal taken before running spread

HEINRICHS GEOEXPLORATION CO.
POST OFFICE BOX 5964
TUCSON, ARIZONA (85703)
PHONE 623-0578

JOB 716, LINE 3, SPREAD 1, N 1/2, 6/14/72 1000 FEET=DIPOLE LENGTH
CAL GROUP NO. 1

CAL CUR	PFE	AC1	AC2	AC FREQ	DC FREQ	PFE CAL	RHO CAL
1.000	-.10	100.800	0.00	3.00	.30	-.1000	.9921

COMPUTED DATA									FIELD DATA					
POINT NO.	N	RHO	PFE	MCF	CCPFE	CCMCF	CPFE		PFE	CUR	PT.	N	AC1	AC2
1	1	302.55	.90	3.0	.90	3.0	0.00	**	.80	4.00	1	1	403.000	0.00
2	2	258.00	.80	3.1	.73	2.8	.07	**	.70	6.00	2	2	129.000	0.00
3	3	410.43	1.40	3.4	1.31	3.2	.09	**	1.30	6.00	3	3	81.600	0.00
4	4	336.96	2.00	5.9	1.77	5.3	.23	**	1.90	6.00	4	4	33.300	0.00
5	5	254.75	1.90	7.5	1.35	5.3	.55	**	1.80	6.00	5	5	14.400	0.00
6	1	494.44	1.30	2.6	1.30	2.6	0.00	**	1.20	3.00	6	1	492.000	0.00
7	2	271.74	1.30	4.8	1.30	4.8	0.00	**	1.20	3.00	7	2	67.600	0.00
8	3	328.44	1.40	4.3	1.28	3.9	.12	**	1.30	6.00	8	3	65.300	0.00
9	4	509.50	1.90	3.7	1.77	3.5	.13	**	1.80	6.00	9	4	50.400	0.00
10	5	370.14	2.50	6.8	2.17	5.9	.33	**	2.40	6.00	10	5	20.800	0.00
11	6	304.00	1.95	6.4	1.29	4.2	.66	**	1.80	4.00	11	6	7.160	-.10
12	2	358.42	1.20	3.3	1.20	3.3	0.00	**	1.10	2.00	12	2	59.500	0.00
13	3	200.18	1.40	7.0	1.16	5.8	.24	**	1.30	3.00	13	3	19.900	0.00
14	4	336.30	1.80	5.4	1.57	4.7	.23	**	1.70	6.00	14	4	33.300	0.00
15	5	496.32	2.10	4.2	1.88	3.8	.22	**	2.00	6.00	15	5	28.000	0.00
16	6	320.13	2.90	9.1	2.28	7.1	.62	**	2.80	6.00	16	6	11.200	0.00
17	3	273.39	1.50	5.5	1.34	4.9	.16	**	1.40	2.00	17	3	18.100	0.00
18	4	168.93	1.00	5.9	.42	2.5	.58	**	.90	3.00	18	4	8.430	0.00
19	5	199.52	1.70	8.5	.93	4.7	.77	**	1.60	6.00	19	5	11.300	0.00
20	6	311.06	1.80	5.8	1.16	3.7	.64	**	1.70	6.00	20	6	11.000	0.00
21	4	350.76	1.60	4.6	1.39	4.0	.21	**	1.50	2.00	21	4	11.600	0.00
22	5	202.50	.85	4.2	.10	.5	.75	**	.80	3.00	22	5	5.780	.10
23	6	280.82	1.40	5.0	.66	2.4	.74	**	1.30	6.00	23	6	9.970	0.00
24	5	505.76	1.90	3.8	1.68	3.3	.22	**	1.90	2.00	24	5	9.520	.20
25	6	308.19	1.60	5.2	.95	3.1	.65	**	1.50	3.00	25	6	5.460	0.00

Job: 716, LINE 4, Spread 1, NH S 1/2, 6/19/72 1000.

Bearing N 25° E

PAGE 1

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Colone 716
LINE 4 HALF N SP. 1 DATE

SEND	Cal	4-5	5-6	4-5	3-4	2-3	1-2	6-7	5-6	4-5
RECEIVE	4000 6000 N	5000 6000 N	6000 7000	→	→	→	→	7000 8000	→	→
RANGE	1.0	10	10	1.0	1.0	1.0	0.1	10	1.0	1.0
DC 1	+0.1	1.8	0.8	2.1	3.4	0.8	0.9	0.9	1.2	2.4
DC 2										
DC 3	0.0									
DC 4										
DC 5 Gn	1	4	3	4	—	—	—	3	—	4
DC 6 #	1	1	2	3	4	5	6	7	8	9
DC 7 n		1	1	2	3	4	5	1	2	3
DC 8										
DC AVG.										
AC 1	100.1	346.0	187.9	74.4	22.3	14.2	7.99	197.0	59.8	36.1
AC 2	0.0	0.0	0.0	0.0	0.0	0.0	+0.1	0.0	0.0	0.0
AC AVG.										
S.P.	3.0	+5.3	-8.5	→	→	→	→	-38.1	→	→
AC NOISE	0.3									
POT RES.		40 k	35 k	→	→	→	→	15 K	→	→

N, 25°E

PAGE 2

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Glove 716
LINE 4 HALF N SP. 1 DATE

SEND	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3	6-7	5-6
RECEIVE	—	—	>	8000 9000	—	—	—	>	9000 10000	>
RANGE	1.0	0.1	0.1	1.0	1.0	1.0	0.1	0.1	1.0	1.0
DC 1	3.6	1.3	0.9	1.3	1.3	2.7	3.6	1.4	1.1	1.0
DC 2										
DC 3 m	—	—	—	3	—	4	—	—	3	—
DC 4 #	10	11	12	13	14	15	16	17	18	19
DC 5 n	4	5	6	2	3	4	5	6	3	4
DC 6				Vgd. [illegible] 9200N						
DC 7										
DC 8										
DC AVG.										
AC 1	13.1	9.61	5.71	58.5	24.4	16.6	6.56	5.06	45.3	22.5
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.	—	—	>	-11.8	—	—	—	>	-2.0	—
AC NOISE										
POT RES.	—	—	>	30 K	—	—	—	>	40 K	—

N, 25°E

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Clove 716
LINE 4 HALF N SP. 1 DATE

SEND	4-5	3-4	6-7	5-6	4-5	6-7	5-6			
RECEIVE	→	→	10 000 11 000	→	→	11 000 12 000	→			
RANGE	1.0	0.1	1.0	0.1	0.1	1.0	1.0			
DC 1	2.4	3.3	1.5	1.2	2.6	1.7	2.0			
DC 2										
DC 3 Cu	4	—	3	—	4	3	—			
DC 4 #	20	21	22	23	24	25	26			
DC 5 n	5	6	4	5	6	5	6			
DC 6			nd	~~5~~ N						
DC 7										
DC 8										
DC AVG.										
AC 1	16.7	7.31	16.1	8.99	7.04	17.0	10.4			
AC 2	0.0	0.0	0.0	0.0	*0.1	0.0	0.0			
AC AVG.										
S.P.	→	→	+9.3	→	→	-17.8	→			
AC NOISE										
POT RES.	→	→	35k	→	→	30k	→			

Bearing N, 25E

PAGE 1

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Clone 716
LINE 4 HALF 2 SP. 1 DATE

SEND	5-6	6-7	4-5	5-6	6-7	3-4	4-5	5-6	6-7	2-3
RECEIVE	3000 N 2,000	→	2000 1,000 N	→	→	1000 N 0	→	→	→	0 1,000 S
RANGE	10	1.0	10	1.0	1.0	10	1.0	1.0	0.1	1.0
DC 1	5.1	3.6	3.5	1.1	0.7	1.9	2.9	0.8	0.4	1.0
DC 2										
DC 3										
DC 4	2									
DC 5 #	27	28	29	30	31	32	33	34	35	36
DC 6 n	1	2	1	2	3	1	2	3	4	1
DC 7										
DC 8										
DC AVG.										
AC 1	125.0	34.3	152.0	44.8	18.2	145.0	43.2	18.9	9.38	79.8
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.	+24.8	→	+9.3	→	→	-4.6	→	→	→	-11.6
AC NOISE										
POT RES.	20k	→	18k	→	→	25k	→	→	→	40k

N, 25°E

PAGE 2

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Glove 716
LINE 4 HALF S SP. 1 DATE

SEND	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5	5-6	6-7
RECEIVE	→			→	1000 S 2000	→				→
RANGE	1.0	1.0	0.1	0.1	10	1.0	1.0	0.1	0.1	0.1
DC 1	3.0	3.4	1.1	1.3	-0.3	-0.2	1.7	2.3	0.5	0.9
DC 2										
DC 3 Fin										
DC 4 #	37	38	39	40	41	42	43	44	45	46
DC 5 M	2	3	4	5	1	2	3	4	5	6
DC 6	850'N				GF 400' S					
DC 7	Cross GF									
DC 8										
DC AVG.										
AC 1	24.8	12.3	7.13	4.21	154.0	36.7	14.9	8.74	5.59	3.55
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.	→			→	-2.6	→				→
AC NOISE										
POT RES.	→			→	+0K	→				→

N, 25°E

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Glove 716
LINE 4 HALF S SP. 1 DATE

SEND	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5	1-2
RECEIVE	2000 3000S	→				3000S 4000	→			4000 5000S
RANGE	1.0	1.0	0.1	0.1	0.1	1.0	0.1	0.1	0.1	0.1
DC 1	0.6	0.6	2.6	2.7	1.2	1.0	0.8	3.1	3.4	0.6
DC 2										
DC 3										
DC 4 Cur										
DC 5 #	47	48	49	50	51	52	53	54	55	56
DC 6 n	2	3	4	5	6	3	4	5	6	4
DC 7										GFR
DC 8										3925'S
DC AVG.										
AC 1	41.2	16.1	8.13	5.45	3.87	15.0	7.82	4.34	3.30	4.81
AC 2	0.0	0.0	0.0	0.0	±0.1	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.	+28.9	→				+4.6	→			-4.3
AC NOISE										
POT RES.	10K	→				20K	→			22K

N 25° E

PAGE 4

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Glove 7+6
LINE 4 HALF S SP. 1 DATE

SEND	2-3	3-4			Cal					
RECEIVE	→	→			4-5					
RANGE	0.1	0.1			1.0					
DC 1	0.3	2.7			±0.1					
DC 2										
DC 3										
DC 4 Pw										
DC 5 #	57	58								
DC 6 n	5	6								
DC 7										
DC 8										
DC AVG.										
AC 1	2.81	1.68			100.2					
AC 2	-0.2	0.0			0.0					
AC AVG.										
S.P.										
AC NOISE										
POT RES.										

Cal in mv

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Rlope 716

LINE 4 HALF N SP. 1 DATE 6/19/72

PAGE 1

SEND	Cal	4-5	5-6	4-5	3-4	2-3	1-2	6-7	5-6	4-5
RECEIVE	4-5	5000 6000 N	6000 7000 N	→	→	→	→	7000 8000	→	→
RANGE	5X200	10X400	10X300	10X400	10X400	10X400	10X400	10X300	10X300	10X400
VOLTAGE	200	500	500	500	330	360	320	450	500	500
CURRENT	1	4	3	4	4	4	4	3	3	4
SEND	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3	6-7	5-6
RECEIVE	→	→	→	8000 9000	→	→	→	→	9000 10000	→
RANGE	10X400	10X400	10X400	10X300	10X300	10X400	10X400	10X400	10X300	10X300
VOLTAGE	340	360	320	450	500	500	340	360	450	500
CURRENT	4	4	4	3	3	4	4	4	3	3

FREQUENCIES 3 .3

SENDER NO. 23706 S

OPERATOR Upham

RECEIVER NO. 25705 R

OPERATOR Berryman

COMMENTS:

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Glove 716

LINE 4 HALF N SP. 1 DATE 6-19-72

PAGE 2

SEND	4-5	3-4	6-7	5-6	4-5	6-7	5-6			
RECEIVE	—	>	10000 11000	—	>	11000 12000	—			
RANGE	6X400	10X400	10X300	10X300	10X400	10X300	10X300			
VOLTAGE	500	340	450	500	500	450	500			
CURRENT	4	4	3	3	4	3	3			
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES 3 .3

SENDER NO. 23706 S

OPERATOR UPHAM

RECEIVER NO. 25705 R

OPERATOR BERRYMAN

COMMENTS:

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Clone 716

LINE 4 HALF S SP. 1 DATE 6-1-92

PAGE 1

SEND	5-6	6-7	4-5	5-6	6-7	3-4	4-5	5-6	6-7	2-3
RECEIVE	3000 2000 N	→	2000 1000	→	→	1000 N 0	→	→	→	0 1000 S
RANGE	5X400	5X400	10X200	10X200	10X200	10X200	10X200	10X200	10X200	10X200
VOLTAGE	400	320	320	400	320	200	320	400	320	200
CURRENT	2	2	2	2	2	2	2	2	2	2

SEND	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5	5-6	6-7
RECEIVE	→	→	→	→	1000 S 2000	→	→	→	→	→
RANGE	10X200	10X200	10X200	10X200	10X200	10X200	10X200	10X200	10X200	10X200
VOLTAGE	200	320	400	340	200	200	200	320	400	320
CURRENT	2	2	2	2	2	2	2	2	2	2

FREQUENCIES 3 .3

SENDER NO. 23706 S

OPERATOR Upham

RECEIVER NO. 25705 R

OPERATOR Berryman

COMMENTS:

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Glove #716

LINE 4 HALF 5 SP. 1 DATE 6-19-72

PAGE 2

SEND	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5	1-2
RECEIVE	2000 3000 S	→	→	→	→	3000 4000 S	→	→	→	4000 5000
RANGE	10X200	10X200	10X200	10X200	10X200	10X200	10X200	10X200	10X200	10X200
VOLTAGE	200	200	200	320	400	200	200	200	200	200
CURRENT	2	2	2	2	2	2	2	2	2	2
SEND	2-3	3-4		Cal						
RECEIVE	→	→		4-5						
RANGE	10X200	10X200		5X200						
VOLTAGE	200	200		140V						
CURRENT	2	2		1.0						

FREQUENCIES .3 3

SENDER NO. 23706 S

OPERATOR Upham

RECEIVER NO. 25705 R

OPERATOR Berryman

COMMENTS:

N, 23° E

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT Glove 716

LINE 34 HALF N SP. 1 DATE 23-6-

PAGE 1

SEND	Cal	3-4	2-3	1-2	4-5	3-4	2-3	1-2	5-6	4-
RECEIVE	5-6	35-40	→	→	40-45	→	→	→	45-50	→
RANGE	1.0	10	1.0	1.0	10	1.0	1.0	1.0	10	1.0
DC 1	-0.05	1.4	2.4	3.1	1.3	2.1	2.6	2.9	0.8	1.7
DC 2	0.0									
DC 3										
DC 4 Em	1	1	2	—	—	1	2	—	—	—
DC 5 #	1	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	100.6	137.0	100.6	23.8	274.0	29.2	35.2	12.0	183.0	87.3
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	-6.7	→	→	+10.0	→	→	→	+3.0	
AC NOISE	0.3									
POT RES.		75k	→	→	30k	→	→	→	35k	

N 25°E

PAGE 2

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Glove 716
LINE 3L HALF N SP. 1 DATE 23 Jun

SEND	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3	1-2	6-7
RECEIVE	→	→	→	50 55	←	←	←	←	→	55 60
RANGE	1.0	1.0	0.1	10	1.0	1.0	0.1	1.0	0.1	1.0
DC 1	2.7	2.6	2.6	0.6	1.1	1.7	2.2	2.5	2.4	0.5
DC 2										
DC 3										
DC 4 Tm	—	—	—	—	—	—	1	2	—	—
DC 5 #	10	11	12	13	14	15	16	17	18	19
DC 6 n	3	4	5	1	2	3	4	5	6	2
DC 7										
DC 8										
DC AVG.										
AC 1	15.1	23.9	9.84	200.0	47.4	34.4	6.81	12.1	5.37	62.5
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.	→	→	→	+11.1	→	→	→	→	→	+3.7
AC NOISE										
POT RES.	→	→	→	40 K	→	→	→	→	→	40 K

N 25° E

PAGE 3

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Glove 716
LINE 3 HALF N SP. 1 DATE 23 Jun

SEND	5-6	4-5	3-4	2-3	6-7	5-6	4-5	3-4	6-7	5-6
RECEIVE	→	→	→	→	6-5				6-5	→
RANGE	1.0	1.0	0.1	0.1	1.0	1.0	1.0	0.1	0.1	0.1
DC 1	1.0	1.6	2.0	2.0	0.7	1.3	1.9	2.1	0.8	1.4
DC 2										
DC 3										
DC 4 Line	—	—	1	2	—	—	—	1	2	—
DC 5 #	20	21	22	23	24	25	26	27	28	29
DC 6 #	3	4	5	6	3	4	5	6	4	5
DC 7										
DC 8										
DC AVG.										
AC 1	23.8	21.0	4.64	9.03	28.7	13.3	12.7	2.97	10.21	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.	—	—	—	→	+9.7	—	—	→	-5.5	—
AC NOISE										
POT RES.	—	—	—	→	40 K	—	—	→	45 K	—

N, 25° E

PAGE

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Colone 716
LINE 31 HALF N SP. 1 DATE 23 Jun

SEND	4-5									
RECEIVE				35-30	30-25					
RANGE	0.1									
DC 1	1.8									
DC 2										
DC 3										
DC 4										
DC 5 #	30									
DC 6 n	6									
DC 7										
DC 8										
DC AVG.										
AC 1	5.2									
AC 2	0.0									
AC AVG.										
S.P.				-1.0	-5.8					
AC NOISE										
POT RES.				17K	20K					

N.25°E

PAGE 1

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Glove 716
LINE 35 HALF S SP. 1 DATE 23 Aug

SEND	4-5	3-4	4-5	2-3	3-4	4-5	5-6	6-7	1-2	
RECEIVE	25-20	20 15	→	15-10				→	10-3	—
RANGE	10	1.0	1.0	10	1.0	1.0	1.0	0.1	10	10
DC 1	1.4	2.1	3.0	1.5	1.9	2.9	3.2	2.12	1.0	1.3
DC 2										
DC 3										
DC 4										
DC 5		~~GA 2200N~~		~~GA 1500N~~						
DC 6		1	2	—	1	2	—			
DC 7	31	32	33	34	35	36	37	38	39	40
DC 8	1	1	2	1	2	3	4	5	1	2
DC AVG.										
AC 1	603.0	95.3	87.4	355.0	28.2	37.6	11.7	6.78	528.0	159.0
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.	+6.4	+0.1	→	+12.3	—	—	—	→	-6.5	—
AC NOISE										
POT RES.	50K	56K	→	15K	—	—	—	→	20K	—

N 25° E

PAGE 2

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Glove 716
LINE 34 HALF S SP. 1 DATE 23 Jun

SEND	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5	5-6	1-2
RECEIVE					5-6					6-5
RANGE	1.0	1.0	0.1	0.1	1.0	1.0	0.1	0.1	0.1	1.0
DC 1	-0.8	+0.9	0.9	0.4	0.9	-0.2	+0.4	1.7	1.9	1.2
DC 2										
DC 3										
DC 4 Sm	1	2					1	2		
DC 5 #	41	42	43	44	45	46	47	48	49	50
DC 6 n	3	4	5	6	2	3	4	5	6	3
DC 7										
DC 8										
DC AVG.										
AC 1	18.5	26.6	9.29	5.85	82.4	42.5	6.46	10.92	4.33	28.2
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.					+18.6					+5.2
AC NOISE										
POT RES.					27K					20K

N 25° E

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Glove 716
LINE 22 HALF S SP. 1 DATE 23 Jun

PAGE 3

SEND	2-3	3-4	4-5	1-2	2-3	3-4		Cal		
RECEIVE				2-1.5				5-6		
RANGE	1.0	0.1	0.1	1.0	1.0	0.1		1.0		
DC 1	0.7	1.3	2.0	1.3	1.0	1.6		0.0		
DC 2										
DC 3										
DC 4				~~not 100%~~						
DC 5 Sun		1	2			1				
DC 6 #	51	52	53	54	55	56				
DC 7 n	4	5	6	4	5	6				
DC 8										
DC AVG.										
AC 1	19.9	3.62	7.14	13.6	10.8	2.14		100.1		
AC 2	0.0	0.0	0.0	0.0	0.0	0.0		1.0		
AC AVG.										
S.P.				-13.4						
AC NOISE										
POT RES.				18K						

N, 25° E

PAGE 1

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Glove

LINE 3L HALF U SP. 1 DATE 23

SEND	Cal	3-4	2-3	1-2	4-5	3-4	2-3	1-2	5-6	4-5
RECEIVE	5-6	35-40	→	→	40-45	→	→	→	45-50	→
RANGE	5X200	5X200	10X200	10X200	10X200	5X200	10X200	10X200	10X200	10X200
VOLTAGE	200	600	840	480	700	600	840	480	400	700
CURRENT	1	1	2	2	2	1	2	2	2	2
SEND	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3	1-2	6-7
RECEIVE	→	→	→	50-55	→	→	→	→	→	55-60
RANGE	5X200	10X200	10X200	10X200	10X200	10X200	5X200	10X200	10X200	10X200
VOLTAGE	600	840	480	640	400	700	600	840	480	640
CURRENT	2	2	2	2	2	2	1	2	2	2

FREQUENCIES 3 .3

SENDER NO. 237065

OPERATOR Upham

RECEIVER NO. 257055

OPERATOR Berry Man

COMMENTS:

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Glove 716

LINE 3½ HALF N SP. 1 DATE 23 Jan

PAGE 2

SEND	5-6	4-5	3-4	2-3	6-7	5-6	4-5	3-4	6-7	5-6
RECEIVE	—	—	—	→	60-65	—	—	→	65-70	—
RANGE	10X200	10X200	5X200	10X200	10X200	10X200	10X200	5X200	10X200	10X200
VOLTAGE	400	700	600	840	640	400	700	600	640	400
CURRENT	2	2	1	2	2	2	2	1	2	2
SEND	4-5									
RECEIVE	—									
RANGE	10X200									
VOLTAGE	700									
CURRENT	2									

FREQUENCIES 3 .3

SENDER NO. 237065

OPERATOR Upham

RECEIVER NO. 25705R

OPERATOR Berryman

COMMENTS:

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Glove 716

LINE 34 HALF 5 SP. 1 DATE 23 Jun

PAGE 1

SEND	4-5	3-4	4-5	2-3	3-4	4-5	5-6	6-7	1-2	2-3
RECEIVE	0-20	20-15	→	15-10	—	—	—	→	10-5	—
RANGE	10X200	5X200	10X200	10X200	5X200	10X200	10X200	10X200	10X200	10X200
VOLTAGE	700	600	700	840	600	700	400	640	480	840
CURRENT	2	1	2	2	1	2	2	2	2	2
SEND	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5	5-6	1-2
RECEIVE	—	—	—	→	5-0					0-55
RANGE	5X200	10X200	10X200	10X200	10X200	10X200	5X200	10X200	10X200	10X200
VOLTAGE	600	700	400	640	480	840	600	700	400	480
CURRENT	1	2	2	2	2	2	1	2	2	2

FREQUENCIES 3 .3

SENDER NO. 23706 S

OPERATOR Upham

RECEIVER NO. 25705 R

OPERATOR Berryman

COMMENTS:

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Glove 716

LINE 3½ HALF 5 SP. 1 DATE 28 Jun

PAGE 7

SEND	2-3	3-4	4-5	1-2	2-3	3-4		Cal		
RECEIVE				55-105				5-6		
RANGE	10X200	5X200	10X200	10X200	10X200	5X200		5X200		
VOLTAGE	840	600	700	480	840	600		200		
CURRENT	2	1	2	2	2	1		1		
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES 3 .3

SENDER NO. 237065

OPERATOR Upham

RECEIVER NO. 25705R

OPERATOR Berryman

COMMENTS:

Job 716, Line 4, Spread 1, N+S½, 6/20/72

500.

N25°E

PAGE 1

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

PROJECT Glove 716
LINE 4 HALF N SP. 1 DATE 20 Feb

SEND	Cal	3-4	2-3	1-2	4-5	3-4	2-3	1-2	5-6	4-5
RECEIVE	5-6	30 00 35 00	→	→	35 40	→	→	→	40 45	→
RANGE	1.0	10	10	1.0	10	1.0	1.0	1.0	10	1.0
DC 1	+0.1	6.0	3.9	3.6	8.5	4.9	2.9	2.5	4.6	6.3
DC 2										
DC 3	0.0									
DC 4										
DC 5 Sum	1	3							Rec	
DC 6 #	1	1	2	3	4	5	6	7	8	9
DC 7 N		1	2	3	1	2	3	4	1	2
DC 8										
DC AVG.										
AC 1	100.2	286.3	117.0	44.0	245.0	80.5	50.5	22.8	523.0	102.7
AC 2	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AC AVG.										
S.P.	3.0	+6.6	→	→	-4.9	→	→	→	+4.1	→
AC NOISE	0.3									
POT RES.		27K	→	→	22K	→	→	→	45K	→

N 25° E

PAGE 2

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

PROJECT Glove 716
LINE 4 HALF N SP. 1 DATE 20 Aug

SEND	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3	1-2	6-7
RECEIVE	→	→	→	45-50	→	→	→	→	→	50 55
RANGE	1.0	1.0	1.0	10	1.0	1.0	1.0	1.0	0.1	1.0
DC 1	3.1	1.3	1.0	1.1	4.0	5.0	2.4	0.8	0.4	1.3
DC 2										
DC 3										
DC 4 Ex	→	→	→	2	3	→	→	→	→	2
DC 5 E	10	11	12	13	14	15	16	17	18	19
DC 6 N	3	4	5	1	2	3	4	5	6	2
DC 7										
DC 8										
DC AVG.										
AC 1	49.3	35.8	17.8	263.0	80.4	25.2	14.7	12.1	6.52	78.9
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.	→	→	→	-9.2	→	→	→	→	→	+9.9
AC NOISE										
POT RES.	→	→	→	30K	→	→	→	→	→	30K

N25°E

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

PROJECT Glass 716
LINE 4 HALF N SP. 1 DATE [illegible]

SEND	5-6	4-5	3-4	2-3	6-7	5-6	4-5	3-4	6-7	5-6
RECEIVE	→	→	→	→	55-60	→	→	→	60-65	→
RANGE	1.0	1.0	1.0	0.1	1.0	1.0	0.1	0.1	1.0	1.0
DC 1	2.7	4.6	2.1	0.5	1.3	2.5	4.1	2.0	1.3	3.6
DC 2										
DC 3										
DC 4 Run	3	→	→	→	2	3	→	→	2	3
DC 5 #	20	21	22	23	24	25	26	27	28	29
DC 6 "	3	4	5	6	3	4	5	6	4	5
DC 7										
DC 8										
DC AVG.										
AC 1	38.9	15.7	10.1	8.80	53.9	21.7	9.67	6.94	17.9	12.7
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.			→	→	+5.6	→	→	→	+11.7	
AC NOISE										
POT RES.	→	→	→	→	45K	→	→	→	40K	

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Glove 716
LINE 4 HALF N SP. 1 DATE Saturday

SEND	4-5	6-7	5-6							
RECEIVE	→	65-73	→							
RANGE	0.1	0.1	0.1							
DC 1	4.0	1.4	3.4							
DC 2										
DC 3										
DC 4	—	2	3							
DC 5	30	31	32							
DC 6	6	5	6							
DC 7										
DC 8										
DC AVG.										
AC 1	6.52	7.32	5.76							
AC 2	0.0	0.0	0.0							
AC AVG.										
S.P.	→	-4.8								
AC NOISE										
POT RES.	→	4.8								

N 25°E

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

PROJECT Glove 716
LINE 4 HALF S SP. 1 DATE 20-[illegible]

PAGE 1

SEND	Cal	4-5	3-4	4-5	2-3	3-4	4-5	5-6	6-7	1-2
RECEIVE	5-6	20-15	15-10	→	10-5				→	5-0
RANGE	1.0	1.0	10	1.0	10	1.0	1.0	1.0	0.1	1.0
DC 1	+0.1	2.8	1.2	3.1	0.5	1.7	3.2	3.3	2.0	2.0
DC 2										
DC 3										
DC 4 m		1	3							
DC 5 #		33	34	35	36	37	38	39	40	41
DC 6 n		1	1	2	1	2	3	4	5	1
DC 7										
DC 8										
DC AVG.										
AC 1	100.1	29.7	116.0	43.7	109.0	42.3	19.1	14.6	9.02	48.8
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.		+16.8	+27.8	→	+11.7				→	+5.5
AC NOISE										
POT RES.		12K	15K	→	20K				→	15K

Beaver N 205 Hove 716

PAGE 2

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

PROJECT _____
LINE 4 HALF S SP. 1 DATE 2-4-

SEND	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5	5-6
RECEIVE	→	→	→	→	→	0 55	→	→	→	→
RANGE	1.0	1.0	0.1	0.1	0.1	1.0	1.0	1.0	0.1	0.1
DC 1	2.0	3.1	4.1	4.8	3.2	-0.2	-0.5	0.9	2.2	2.1
DC 2										
DC 3										
DC 4 Cu										
DC 5 #	42	43	44	45	46	47	48	49	50	51
DC 6 n	2	3	4	5	6	2	3	4	5	6
DC 7										
DC 8										
DC AVG.										
AC 1	29.7	14.8	8.21	6.23	4.54	26.7	19.6	10.1	5.74	5.01
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.	→	→	→	→	→	+10.6	→	→	→	→
AC NOISE										
POT RES.	→	→	→	→	→	20K	→	→	→	→

N 25° E

PAGE 3

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT [illegible]
LINE [illegible] HALF S SP. 1 DATE [illegible]

SEND	1-2	2-3	3-4	4-5	1-2	2-3	3-4			
RECEIVE	55 105	→	→	→	105 155	→	→			
RANGE	1.0	1.0	0.1	0.1	0.1	0.1	0.1			
DC 1	-0.4	0.0	1.0	2.2	0.4	0.2	1.8			
DC 2										
DC 3										
DC 4 Cu										
DC 5 #	52	53	54	55	56	57	58			
DC 6 M	3	4	5	6	4	5	6 noisy			
DC 7										
DC 8										
DC AVG.										
AC 1	20.5	16.4	9.03	5.35	8.95	7.81	4.73			
AC 2	0.0	0.0	0.0	+0.1	0.0	0.0	0.0			
AC AVG.										
S.P.	-19.9	→	→	→	+51.3	→	→			
AC NOISE										
POT RES.	25K	→	→	→	30K	→	→			

500 A

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Glove 716

LINE 4 HALF N SP. 1 DATE 6-20-72

PAGE 1

SEND	Cal	3-4	2-3	1-2	4-5	3-4	2-3	1-2	5-6	4-5
RECEIVE	5-6	30 35	—	→	35 40	—	—	→	40 45	—
RANGE	5X200	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300
VOLTAGE	100	410	320	220	300	410	320	220	270	300
CURRENT	1	3	3	3	3	3	3	3	3	3
SEND	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3	1-2	6-7
RECEIVE	—	—	→	45-50	—	—	—	—	→	50 55
RANGE	10X300	10X300	10X300	10X200	10X300	10X300	10X300	10X300	10X300	10X200
VOLTAGE	410	320	220	400	270	300	410	320	220	400
CURRENT	3	3	3	2	3	3	3	3	3	2

FREQUENCIES 3 .3

SENDER NO. 237065

OPERATOR Upham

RECEIVER NO. 25705 R

OPERATOR Berryman

COMMENTS:

500A

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Glove

LINE 4 HALF N SP. 1 DATE 6-20-72

PAGE 2

SEND	5-6	4-5	3-4	2-3	6-7	5-6	4-5	3-4	6-7	5-6
RECEIVE				→	55 60			→	60 65	
RANGE	10X300	10X300	10X300	10X300	10X200	10X300	10X300	10X300	10X200	10X300
VOLTAGE	270	300	410	320	400	270	300	410	400	270
CURRENT	3	3	3	3	2	3	3	3	2	3
SEND	4-5	6-7	5-6							
RECEIVE	→	65	→ 70							
RANGE	10X300	10X200	10X300							
VOLTAGE	410	400	270							
CURRENT	3	2	3							

FREQUENCIES 3 13

SENDER NO. 237065

OPERATOR Upham

RECEIVER NO. 25705R

OPERATOR Berryman

COMMENTS:

#500A

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Glove 716

LINE 4 HALF 5 SP. 1 DATE 6-20-72

PAGE 1

SEND	Cal	4-5	3-4	4-5	2-3	3-4	4-5	5-6	6-7	1-2
RECEIVE	5-6	20 15	15-10	→	10-5	—	—	—	→	5-0
RANGE	5X200	5X200	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300
VOLTAGE	120	120	400	280	320	400	280	280	500	200
CURRENT	1	1	3	3	3	3	3	3	3	3
SEND	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5	5-6
RECEIVE	—				→	0-55	—			→
RANGE	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300	10X300
VOLTAGE	320	400	280	280	500	200	320	400	280	280
CURRENT	3	3	3	3	3	3	3	3	3	3

FREQUENCIES 3 .3

SENDER NO. 23706S

OPERATOR Upham

RECEIVER NO. 25705R

OPERATOR Berryman

COMMENTS:

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

#500 A

PROJECT Glove 716

LINE 4 HALF 5 SP. 1 DATE 6-20-72

PAGE 2

SEND	1-2	2-3	2-4	4-5	1-2	2-3	2-4			
RECEIVE	5 108			→	108,55		→			
RANGE	10X300	10X300	10X300	10X300	10X300	10X300	10X300			
VOLTAGE	200	320	400	280	200	320	400			
CURRENT	3	3	3	3	3	3	3			
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES 3 .3

SENDER NO. 23706S

OPERATOR Upham

RECEIVER NO. 25705 R

OPERATOR Berryman

COMMENTS:

HEINRICHS GEOEXPLORATION CO.
POST OFFICE BOX 5964
TUCSON, ARIZONA (85703)
PHONE 623-0578

JOB 716, LINE 4, SPREAD 1, N+S 1/2, 6/20/72 500 FEET=DIPOLE LENGTH
CAL GROUP NO. 1

CAL CUR	PFE	AC1	AC2	AC FREQ	DC FREQ	PFE CAL	RHO CAL
1.000	0.00	100.200	0.00	3.00	.30	0.0000	.9980

COMPUTED DATA									FIELD DATA					
POINT NO.	N	RHO	PFE	MCF	CCPFE	CCMCF	CPFE		PFE	CUR	PT.	N	AC1	AC2
1	1	151.28	6.00	39.7	6.00	39.7	0.00	**	6.00	3.00	1	1	286.000	0.00
2	2	242.64	3.90	16.1	3.90	16.1	0.00	**	3.90	3.00	2	2	117.000	0.00
3	3	227.47	3.60	15.8	3.60	15.8	0.00	**	3.60	3.00	3	3	44.000	0.00
4	1	132.65	8.50	64.1	8.50	64.1	0.00	**	8.50	3.00	4	1	245.000	0.00
5	2	168.55	4.90	29.1	4.90	29.1	0.00	**	4.90	3.00	5	2	80.500	0.00
6	3	259.30	2.90	11.2	2.90	11.2	0.00	**	2.90	3.00	6	3	50.500	0.00
7	4	233.23	2.50	10.7	2.50	10.7	0.00	**	2.50	3.00	7	4	22.800	0.00
8	1	272.98	4.60	16.9	4.60	16.9	0.00	**	4.60	3.00	8	1	523.000	0.00
9	2	218.33	6.30	28.9	6.30	28.9	0.00	**	6.30	3.00	9	2	102.900	0.00
10	3	248.49	3.10	12.5	3.10	12.5	0.00	**	3.10	3.00	10	3	48.300	0.00
11	4	361.93	1.30	3.6	1.30	3.6	0.00	**	1.30	3.00	11	4	35.800	0.00
12	5	313.99	1.00	3.2	1.00	3.2	0.00	**	1.00	3.00	12	5	17.800	0.00
13	1	199.02	1.10	5.5	1.10	5.5	0.00	**	1.10	2.00	13	1	263.000	0.00
14	2	166.90	4.00	24.0	4.00	24.0	0.00	**	4.00	3.00	14	2	80.400	0.00
15	3	132.04	5.00	37.9	5.00	37.9	0.00	**	5.00	3.00	15	3	25.200	0.00
16	4	150.23	2.40	16.0	2.30	15.3	.10	**	2.40	3.00	16	4	14.700	0.00
17	5	213.02	.80	3.8	.70	3.3	.10	**	.80	3.00	17	5	12.100	0.00
18	6	182.92	.40	2.2	.20	1.1	.20	**	.40	3.00	18	6	6.520	0.00
19	2	239.30	1.30	5.4	1.30	5.4	0.00	**	1.30	2.00	19	2	78.900	0.00
20	3	201.29	3.70	18.4	3.70	18.4	0.00	**	3.70	3.00	20	3	38.900	0.00
21	4	163.89	4.60	28.1	4.51	27.5	.09	**	4.60	3.00	21	4	15.700	0.00
22	5	180.10	2.10	11.7	1.97	10.9	.13	**	2.10	3.00	22	5	10.100	0.00
23	6	247.14	.50	2.0	.37	1.5	.13	**	.50	3.00	23	6	8.800	0.00
24	3	408.69	1.30	3.2	1.30	3.2	0.00	**	1.30	2.00	24	3	53.900	0.00
25	4	221.98	2.50	11.3	2.50	11.3	0.00	**	2.50	3.00	25	4	21.700	0.00
26	5	175.81	4.10	23.3	3.96	22.5	.14	**	4.10	3.00	26	5	9.670	0.00
27	6	197.81	2.00	10.1	1.82	9.2	.18	**	2.00	3.00	27	6	6.940	0.00
28	4	271.45	1.30	4.8	1.30	4.8	0.00	**	1.30	2.00	28	4	17.900	0.00
29	5	229.79	3.60	15.7	3.51	15.3	.09	**	3.60	3.00	29	5	12.700	0.00
30	6	189.48	4.00	21.1	3.81	20.1	.19	**	4.00	3.00	30	6	6.520	0.00

Moore Business Forms, Inc.

31	5	194.45	1.40	7.2	1.28	6.6	.12	**	1.40	2.00	31	5	7.320	0.00
32	6	166.43	3.40	20.4	3.17	19.1	.23	**	3.40	3.00	32	6	5.760	0.00
33	1	45.71	2.80	61.3	2.80	61.3	0.00	**	2.80	1.00	33	1	29.700	0.00
34	1	58.58	1.20	20.5	1.20	20.5	0.00	**	1.20	3.00	34	1	116.000	0.00
35	2	89.93	3.10	34.5	3.10	34.5	0.00	**	3.10	3.00	35	2	43.700	0.00
36	1	54.66	.50	9.1	.50	9.1	0.00	**	.50	3.00	36	1	109.000	0.00
37	2	85.87	1.70	19.8	1.70	19.8	0.00	**	1.70	3.00	37	2	42.300	0.00
38	3	98.36	3.20	32.5	3.11	31.6	.09	**	3.20	3.00	38	3	19.100	0.00
39	4	150.52	3.30	21.9	3.20	21.3	.10	**	3.30	3.00	39	4	14.600	0.00
40	5	160.69	2.00	12.4	1.85	11.5	.15	**	2.00	3.00	40	5	9.020	0.00
41	1	24.84	2.00	80.5	1.92	77.5	.08	**	2.00	3.00	41	1	48.800	0.00
42	2	60.47	2.00	33.1	1.92	31.8	.08	**	2.00	3.00	42	2	29.700	0.00
43	3	76.14	3.10	40.7	2.96	38.9	.14	**	3.10	3.00	43	3	14.800	0.00
44	4	85.30	4.10	48.1	3.88	45.5	.22	**	4.10	3.00	44	4	8.210	0.00
45	5	114.03	4.80	42.1	4.55	39.9	.25	**	4.80	3.00	45	5	6.230	0.00
46	6	130.93	3.20	24.4	2.88	22.0	.32	**	3.20	3.00	46	6	4.540	0.00
47	2	53.19	-.20	-3.8	-.29	-5.5	.09	**	-.20	3.00	47	2	26.700	0.00
48	3	97.32	-.50	-5.1	-.60	-6.1	.10	**	-.50	3.00	48	3	19.600	0.00
49	4	101.71	.90	8.8	.73	7.1	.17	**	.90	3.00	49	4	10.100	0.00
50	5	102.45	2.20	21.5	1.91	18.7	.29	**	2.20	3.00	50	5	5.740	0.00
51	6	142.94	2.10	14.7	1.82	12.7	.28	**	2.10	3.00	51	6	5.010	0.00
52	3	101.89	-.40	-3.9	-.49	-4.8	.09	**	-.40	3.00	52	3	20.500	0.00
53	4	163.67	0.00	0.0	-.09	-.5	.09	**	0.00	3.00	53	4	16.400	0.00
54	5	159.29	1.00	6.3	.84	5.3	.16	**	1.00	3.00	54	5	9.030	0.00
55	6	152.79	2.15	14.1	1.89	12.4	.26	**	2.20	3.00	55	6	5.350	.10
56	4	89.68	.40	4.5	.19	2.2	.21	**	.40	3.00	56	4	8.950	0.00
57	5	136.67	.20	1.5	.01	.1	.19	**	.20	3.00	57	5	7.810	0.00
58	6	134.55	1.80	13.4	1.50	11.1	.30	**	1.80	3.00	58	6	4.730	0.00

Moore Business Forms, Inc.

Job 716, Line 5, Spread 1, Nt 5½, 6/22/72 500.

N 25°E

PAGE 1

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT [illegible]
LINE 5 HALF 11 SP. 1 DATE 22-[illegible]

SEND	[illegible]	1-2	2-3	1-2	3-4	3-5	[illegible]	[illegible]	[illegible]	
RECEIVE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]		
RANGE	1.0	10	2	1.0	10	1.0	1.0	10	10	1.0
DC 1	40.1	1.9	4.4	1.3	1.4	3.4	0.9	0.9	2.0	2.5
DC 2										
DC 3 Cm	1	2								
DC 4 #	1	1	2	3	4	5	6	7	8	9
DC 5 n		1	1	2	1	2	3	1	2	3
DC 6								CS	4060'N	
DC 7										
DC 8										
DC AVG.										
AC 1	122.0	291.9	397.0	54.2	203.0	80.5	22.2	359.0	128.0	47.5
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.	3.0	-8.6	+9.9	→	+4.9	→	→	-3.7	—	
AC NOISE	0.3									
POT RES.		32k	35k	→	35k	—	→	35k	—	—

N,250 E

PAGE

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT _____
LINE _____ HALF _____ SP. _____ DATE _____

SEND		5-6	4-5	3-4	2-3	1-2	6-7			
RECEIVE										
RANGE	1.0	1.0	1.0	1.0	1.0	0.1	1.0	1.0	1.0	1.0
DC 1	1.1	0.6	1.3	2.5	3.7	0.9	0.6	0.7	1.3	2.6
DC 2										
DC 3										
DC 4 Sum										
DC 5 #	10	11	12	13	14	15	16	17	18	19
DC 6 n	4	1	2	3	4	5	1	2	3	4
DC 7										
DC 8										
DC AVG.										
AC 1	16.7	228.0	77.4	39.7	16.7	6.6	430.0	99.5	43.5	26.5
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.		-1.6					+0.9			
AC NOISE										
POT RES.		15K					18K			

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT _____

LINE _____ HALF _____ SP. _____ DATE _____

PAGE

SEND										
RECEIVE										
RANGE	1.0	0.1	1.0	1.0	1.0	1.0	0.1	1.0	1.0	0.1
DC 1	2.6	0.9	0.8	0.8	1.5	2.7	2.9	0.9	0.8	1.3
DC 2										
DC 3										
DC 4 Cur										
DC 5 #	20	21	22	23	24	25	26	27	28	29
DC 6 n	5	6	2	3	4	5	6	3	4	5
DC 7										
DC 8										
DC AVG.										
AC 1	12.5	[illegible]	10.2	[illegible]	18.1	12.1	6.45	42.9	18.5	9.80
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.			+7.1					+7.0		
AC NOISE										
POT RES.			28 k					30 k		

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT [illegible]

LINE [illegible] HALF [illegible] SP. [illegible] DATE [illegible]

PAGE [illegible]

SEND	3.4	[illegible]		[illegible]						
RECEIVE	[illegible]	[illegible]								
RANGE	2.1	1.2	0.1	[illegible]						
DC 1	2.3	0.8	0.9	2.0						
DC 2										
DC 3										
DC 4 Am										
DC 5 #	30	31	32	33						
DC 6 n	6	4	5	6						
DC 7										
DC 8										
DC AVG.										
AC 1	7.23	21.2	9.93	5.64						
AC 2	0.0	0.0	0.0	3.0						
AC AVG.										
S.P.	[illegible]	+7.4	[illegible]	[illegible]						
AC NOISE										
POT RES.	[illegible]	402	[illegible]	[illegible]						

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Glenn 316
LINE 5 HALF 5 SP. 1 DATE 22 June

SEND	0-1	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5
RECEIVE	1-2	15-10					10-5			
RANGE	1.0	10	1.0	1.0	1.0	1.0	10	1.0	1.0	1.0
DC 1	+0.1	1.3	2.1	1.6	1.4	1.3	0.5	1.7	2.3	1.2
DC 2										
DC 3										
DC 4 Fun										
DC 5 #		34	35	36	37	38	39	40	41	42
DC 6 n		1	2	3	4	5	1	2	3	4
DC 7										
DC 8										
DC AVG.										
AC 1	100.0	423.0	94.9	23.9	12.6	10.4	262.0	96.3	33.3	11.6
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.		+1.2	—			—	+2.3	—	—	—
AC NOISE										
POT RES.		25k	—			—	27k	—	—	—

N 2500E

PAGE

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Blove 716
LINE S HALF S SP. 1 DATE 22 Jun

SEND	1-2	2-3	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4
RECEIVE			5-0				3	0-55		
RANGE	0.1	0.1	1.0	1.0	1.0	0.1	0.1	1.0	1.0	0.1
DC 1	1.0	1.3	0.7	1.5	2.1	1.6	1.2	0.3	1.5	1.9
DC 2										
DC 3								1		
DC 4 Pm										
DC 5 #	43	44	45	46	47	48	49	50	51	52
DC 6 n	5	6	2	3	4	5	6	3	4	5
DC 7										
DC 8										
DC AVG.										
AC 1	7.03	6.41	53.1	27.9	12.1	4.77	3.16	25.0	15.4	7.64
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.	→	→	+9.4	→	→	→	→	-2.5	→	→
AC NOISE										
POT RES.	→	→	12k	→	→	→	→	12k	→	→

PAGE

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT [illegible]
LINE 5 HALF 5 SP. 1 DATE [illegible]

SEND										
RECEIVE					15-20	20-25				
RANGE		1.0	1.0	0.1						
DC 1	1.3	0.4	1.7	2.1						
DC 2										
DC 3										
DC 4 Cu									Stream between	
DC 5 #	53	54	55	56					20-25	
DC 6 #	6	4	5	6						
DC 7									Conductive @	
DC 8									20	
DC AVG.										
AC 1	305	16.1	11.5	6.56						
AC 2	0.0	0.0	0.0	0.0						
AC AVG.										
S.P.		+16.7			-12.2	+12.9				
AC NOISE										
POT RES.		20k			23k	30k				

PAGE 1

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT 6 LOVE 716

LINE 5 HALF N SP. ____ DATE 21

SEND	1-2	1-2	2-3	1-2	3-4	2-3	1-2	4-5	3	
RECEIVE	2-4	25-30	30-35	35-40	35-40	—	35-40	40-45		
RANGE	5X200	10X200	10X200	10X200	10X200	10X200	10X200	10X200	10X200	10X200
VOLTAGE	400	560	700	560	700	700	560	620	700	700
CURRENT	1	2	2	2	2	2	2	2	2	2
SEND	1-2	3-4	4-5	3-4	2-3	1-2	6-7	5-6	4-5	3-4
RECEIVE	—	4					35-40	—		
RANGE	10X200	10X200	10X200	10X200	10X200	10X200	10X200	10X200	10X200	10X200
VOLTAGE	560	620	620	700	700	560	500	620	620	700
CURRENT	2	2	2	2	2	2	2	2	2	2

FREQUENCIES 3 .3

SENDER NO. 237065

OPERATOR Upham

RECEIVER NO. 257052

OPERATOR Beerkner

COMMENTS:

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Glove 716

LINE 5 HALF N SP. ____ DATE 21 June 72

PAGE 2

SEND	2-3	1-2	6-7	5-6	4-5	3-4	2-3	6-7	5-6	4-5
RECEIVE		→	55-60				→	60 65		
RANGE	10X200	10X200	10X200	10X200	10X200	10X200	10X200	10X200	10X200	10X200
VOLTAGE	700	560	500	620	620	700	700	500	620	620
CURRENT	2	2	2	2	2	2	2	2	2	2
SEND	3-4	6-7	5-6	4-5						
RECEIVE	→	65 70		→						
RANGE	10X200	10X200	10X200	10X200						
VOLTAGE	700	500	620	620						
CURRENT	10X200	2	2	2						

FREQUENCIES 3 13

SENDER NO. 237065

OPERATOR Upham

RECEIVER NO. 25705 R

OPERATOR Berry Mann

COMMENTS:

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Glove 716

LINE 5 HALF 5 SP. ____ DATE 21 June 12

PAGE 1

SEND	Bad	2-3	2-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5
RECEIVE	1-2	15-10	—	—	—	—	10-5	—	—	—
RANGE	5X200	10X200	10X200	10X200	10X200	10X200	10X200	10X200	10X200	10X200
VOLTAGE	320	740	700	620	620	500	600	740	700	620
CURRENT	1	2	2	2	2	2	2	2	2	2
SEND	5-6	6-7	1-2	2-3	3-4	5-6	1-2	2-3	3-4	4-5
RECEIVE	—	→	5-0	—	—	5	0-55	—	—	→
RANGE	10X200	10X200	10X200	10X200	10X200	10X200	10X200	10X200	10X200	10X200
VOLTAGE	620	500	600	740	700	620	600	740	700	620
CURRENT	2	2	2	2	2	2	2	2	2	2

FREQUENCIES 3 .3

SENDER NO. 23706 S

OPERATOR Upham

RECEIVER NO. 25705 R

OPERATOR Berryman

COMMENTS:

4-5

10X200
620
2

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Glove 716

LINE 5 HALF S SP. ____ DATE 21 June 72

PAGE 2

SEND	1-2	2-3	3-4							
RECEIVE	[illegible]	[illegible]	[illegible]							
RANGE	10X200	10X200	10X200							
VOLTAGE	600	740	700							
CURRENT	2	2	2							
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES 3 .3

SENDER NO. 237065

OPERATOR Upham

RECEIVER NO. 25705R

OPERATOR Berryman

COMMENTS:

HEINRICHS GEOEXPLORATION CO.
POST OFFICE BOX 5964
TUCSON, ARIZONA (85703)
PHONE 623-0578

JOB 716, LINE 5, SPREAD 1, N+S 1/2, 6/22/72 500 FEET=DIPOLE LENGTH
CAL GROUP NO. 1

CAL CUR	PFE	AC1	AC2	AC FREQ	DC FREQ	PFE CAL	RHO CAL
1.000	.10	100.000	0.00	3.00	.30	.1000	1.0000

COMPUTED DATA									FIELD DATA					
POINT NO.	N	RHO	PFE	MCF	CCPFE	CCMCF	CPFE		PFE	CUR	PT.	N	AC1	AC2
1	1	222.18	1.80	8.1	1.80	8.1	0.00	**	1.90	2.00	1	1	291.000	0.00
2	1	302.73	4.30	14.2	4.30	14.2	0.00	**	4.40	2.00	2	1	387.000	0.00
3	2	164.55	1.20	7.3	1.20	7.3	0.00	**	1.30	2.00	3	2	54.200	0.00
4	1	215.01	1.30	6.0	1.30	6.0	0.00	**	1.40	2.00	4	1	283.000	0.00
5	2	249.47	3.30	13.2	3.30	13.2	0.00	**	3.40	2.00	5	2	80.500	0.00
6	3	167.83	.80	4.8	.80	4.8	0.00	**	.90	2.00	6	3	22.200	0.00
7	1	271.40	.80	2.9	.80	2.9	0.00	**	.90	2.00	7	1	359.000	0.00
8	2	391.30	1.90	4.9	1.90	4.9	0.00	**	2.00	2.00	8	2	128.000	0.00
9	3	368.36	3.40	9.2	3.40	9.2	0.00	**	3.50	2.00	9	3	47.500	0.00
10	4	246.94	1.00	4.0	1.00	4.0	0.00	**	1.10	2.00	10	4	16.300	0.00
11	1	171.85	.50	2.9	.50	2.9	0.00	**	.60	2.00	11	1	228.000	0.00
12	2	234.99	1.20	5.1	1.20	5.1	0.00	**	1.30	2.00	12	2	77.400	0.00
13	3	304.90	2.40	7.9	2.40	7.9	0.00	**	2.50	2.00	13	3	39.700	0.00
14	4	259.52	3.60	13.9	3.60	13.9	0.00	**	3.70	2.00	14	4	16.700	0.00
15	5	176.22	.80	4.5	.66	3.8	.14	**	.90	2.00	15	5	6.660	0.00
16	1	324.11	.50	1.5	.50	1.5	0.00	**	.60	2.00	16	1	430.000	0.00
17	2	300.29	.60	2.0	.60	2.0	0.00	**	.70	2.00	17	2	99.500	0.00
18	3	330.16	1.20	3.6	1.20	3.6	0.00	**	1.30	2.00	18	3	43.500	0.00
19	4	407.44	2.50	6.1	2.50	6.1	0.00	**	2.60	2.00	19	4	26.500	0.00
20	5	339.61	3.50	10.3	3.50	10.3	0.00	**	3.60	2.00	20	5	12.500	0.00
21	6	238.35	.80	3.4	.66	2.8	.14	**	.90	2.00	21	6	5.630	0.00
22	2	306.03	.70	2.3	.70	2.3	0.00	**	.80	2.00	22	2	101.300	0.00
23	3	275.67	.70	2.5	.70	2.5	0.00	**	.80	2.00	23	3	36.500	0.00
24	4	275.30	1.40	5.1	1.40	5.1	0.00	**	1.50	2.00	24	4	18.100	0.00
25	5	325.88	2.60	8.0	2.60	8.0	0.00	**	2.70	2.00	25	5	12.100	0.00
26	6	278.49	2.80	10.1	2.69	9.7	.11	**	2.90	2.00	26	6	6.450	0.00
27	3	324.32	.80	2.5	.80	2.5	0.00	**	.90	2.00	27	3	42.900	0.00
28	4	276.42	.70	2.5	.70	2.5	0.00	**	.80	2.00	28	4	18.300	0.00
29	5	260.34	1.20	4.6	1.20	4.6	0.00	**	1.30	2.00	29	5	9.800	0.00
30	6	306.05	2.20	7.2	2.10	6.9	.10	**	2.30	2.00	30	6	7.130	0.00

31	4	321.74	.70	2.2	.70	2.2	0.00	**	.80	2.00	31	4	21.300	0.00
32	5	261.95	.80	3.1	.80	3.1	0.00	**	.90	2.00	32	5	9.900	0.00
33	6	241.38	1.90	7.9	1.77	7.3	.13	**	2.00	2.00	33	6	5.640	0.00
34	1	321.06	1.20	3.7	1.20	3.7	0.00	**	1.30	2.00	34	1	423.000	0.00
35	2	259.79	2.00	7.7	2.00	7.7	0.00	**	2.10	2.00	35	2	84.900	0.00
36	3	181.94	1.50	8.2	1.50	8.2	0.00	**	1.60	2.00	36	3	23.900	0.00
37	4	191.46	1.30	6.8	1.30	6.8	0.00	**	1.40	2.00	37	4	12.600	0.00
38	5	276.28	1.20	4.3	1.20	4.3	0.00	**	1.30	2.00	38	5	10.400	0.00
39	1	197.29	.40	2.0	.40	2.0	0.00	**	.50	2.00	39	1	262.000	0.00
40	2	293.52	1.60	5.5	1.60	5.5	0.00	**	1.70	2.00	40	2	96.300	0.00
41	3	255.24	2.20	8.6	2.20	8.6	0.00	**	2.30	2.00	41	3	33.300	0.00
42	4	176.44	1.40	7.9	1.32	7.5	.08	**	1.50	2.00	42	4	11.600	0.00
43	5	186.94	1.30	7.0	1.18	6.3	.12	**	1.40	2.00	43	5	7.030	0.00
44	6	272.45	1.20	4.4	1.09	4.0	.11	**	1.30	2.00	44	6	6.410	0.00
45	2	160.26	.60	3.7	.60	3.7	0.00	**	.70	2.00	45	2	53.100	0.00
46	3	211.42	1.40	6.6	1.40	6.6	0.00	**	1.50	2.00	46	3	27.800	0.00
47	4	185.13	2.00	10.8	2.00	10.8	0.00	**	2.10	2.00	47	4	12.100	0.00
48	5	127.09	1.50	11.8	1.29	10.1	.21	**	1.60	2.00	48	5	4.770	0.00
49	6	134.18	1.10	8.2	.79	5.9	.31	**	1.20	2.00	49	6	3.160	0.00
50	3	187.87	.20	1.1	.20	1.1	0.00	**	.30	2.00	50	3	25.000	0.00
51	4	234.23	1.40	6.0	1.40	6.0	0.00	**	1.50	2.00	51	4	15.400	0.00
52	5	204.16	1.80	8.8	1.69	8.3	.11	**	1.90	2.00	52	5	7.640	0.00
53	6	138.14	1.20	8.7	.91	6.6	.29	**	1.30	2.00	53	6	3.250	0.00
54	4	242.22	.30	1.2	.30	1.2	0.00	**	.40	2.00	54	4	16.100	0.00
55	5	306.70	1.60	5.2	1.60	5.2	0.00	**	1.70	2.00	55	5	11.500	0.00
56	6	281.03	2.00	7.1	1.89	6.7	.11	**	2.10	2.00	56	6	6.560	0.00

Moore Business Forms, Inc.

△ Center

Key points:

Line 1, 0, on jeep rd.

6, 5' N. of M.C. rd.

7, 30' S of jeep rd.

Line 2, 3, 100' N.E. of rd. bend nr. mine shack

4, ridge top

6, 200' N. of M.C. rd.

Line 3, 4, drill rd. end

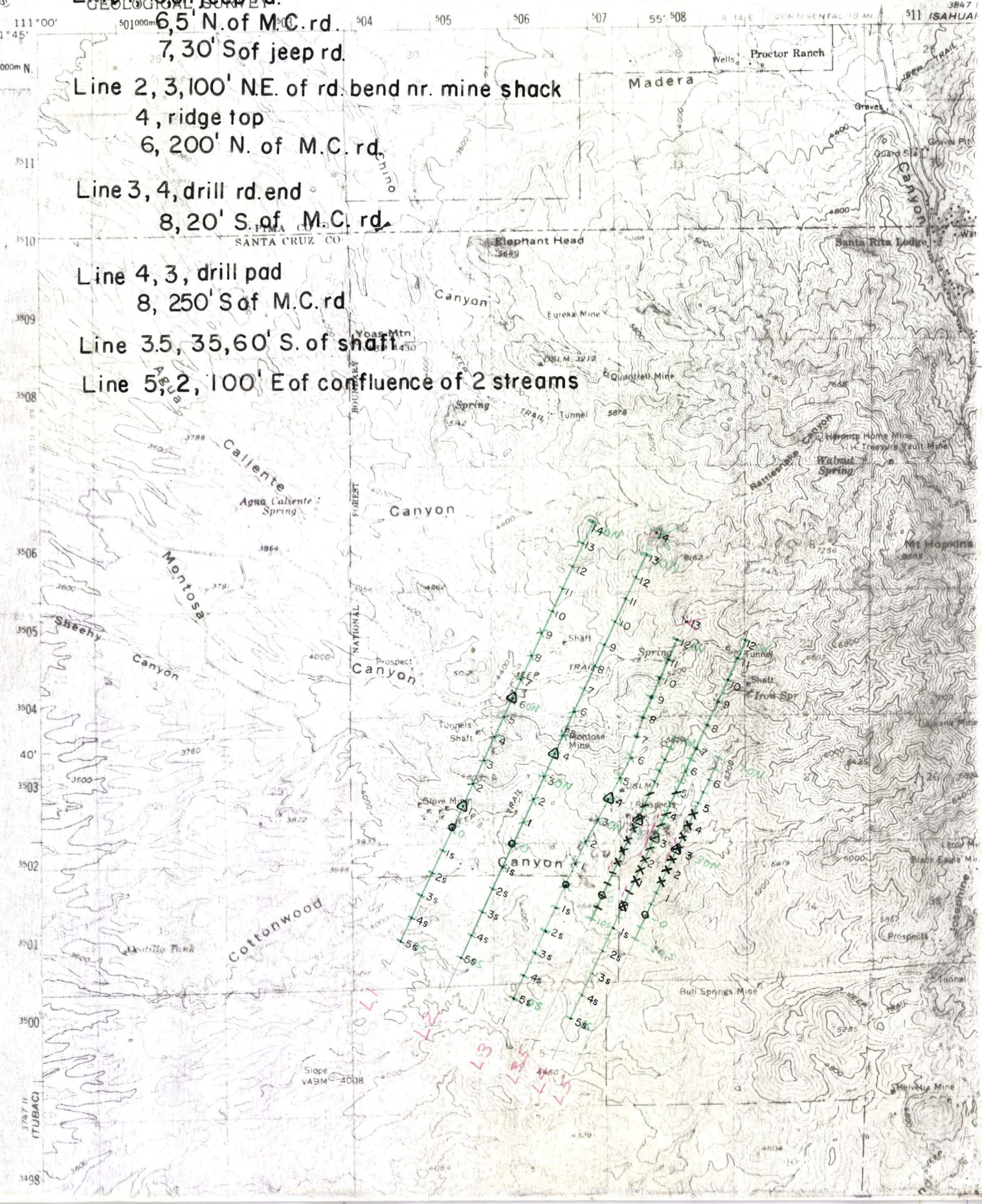
8, 20' S. of M.C. rd.

Line 4, 3, drill pad

8, 250' S of M.C. rd

Line 3.5, 35, 60' S. of shaft

Line 5, 2, 100' E of confluence of 2 streams



T. 20 S
40'
A
Qgth
Canyon
Cottonwood
Rattlesnake
Tq
Keqc
Keqf
Tr
Tp
Kj
Qg
Kfur
Kba
Kft
Ksl
Kjd
Pcn
Peu
Pel
Prv
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Rp
Qgtl
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pЄn
754
917
1113

INDUCED POLARIZATION SURVEY

IN THE

GLOVE MINE EAST AREA

SANTA CRUZ COUNTY

ARIZONA

FOR

CF&I STEEL CORPORATION

JULY 1972

By

Heinrichs GEOEXploration Company
P. O. Box 5964, Tucson, Arizona 85703
Tel: 623-0578

GEOEX Job # 716-72

TABLE OF CONTENTS

	Page
Introduction	1
Conclusions	1
Recommendations	3
Comments on Drilling IP Targets	3

Induced Polarization Location and Interpretation Plan
Sectional Data Sheets
- Line 1 (1000 foot dipoles)
- Line 2 (1000 foot dipoles)
- Line 3 (1000 foot dipoles)
- Line 4 (1000 foot dipoles)
- Line 4 (500 foot dipoles)
- Line 5 (500 foot dipoles)
- Line 6 (500 foot dipoles)

INTRODUCTION

At the request of Mr. James Brooks of CF&I Steel Corporation, Heinrichs GEOEXploration Company conducted an induced polarization (IP) survey in the Glove Mine East Area, Santa Cruz County, Arizona. The field work was completed during the interim May 30 to June 23, 1972.

Six parallel lines were run, all on a N25°E bearing. Lines 1 through 4 are about one half mile apart while Lines 5 and 6 are, respectively, 1000 feet east and 1000 feet west of Line 4. Lines 1, 2 and 3 were all run on 1000 foot dipoles while Lines 5 and 6 were on 500 foot dipoles and Line 4 on both 500 and 1000 foot dipoles. The accompanying plan shows the line locations relative to the Glove Mine and several section corners.

The dual frequency IP technique was used, on sending frequencies of 0.3 and 3.0 hz, with a GEOEX Mark 4 IP system. The collinear dipole-dipole array with dipole intervals ranging from 1 to 6 was employed, which, on the 1000 foot dipoles, should typically give resolvable penetration in the zone from roughly 300 feet to 1500 feet below surface. The 500 foot dipole coverage gives twice the resolution, but with only half the penetration of the 1000 foot dipoles.

The purpose of this survey was to prospect the area to the east of the Glove Mine, particularly along the projected strike of mineralization, in a reconnaissance fashion for possible zones of sulfide. Interesting anomalism was located, mainly on Line 4, and the more detailed 500 foot dipole coverage on Lines 4, 5, and 6 was run to help define drilling targets.

The data are presented on Sectional Data Sheets, one for each line of a given dipole length, and showing resistivity, percent frequency effect (PFE) and metallic conduction factor (MCF) contoured in section. The 500 foot dipole lines also show the self potential (SP) in profile. An "Induced Polarization Location and Interpretation Plan" is also included and is at a scale of 1:62500 to overlay a portion of the U.S.G.S. Mt. Wrightson 15 minute quadrangle map.

Technical GEOEX personnel involved in this project were W. Berryman, geophysical crew chief, with supervision, interpretation and report by C. Ludwig, Senior Geophysicist assisted by the GEOEX staff.

CONCLUSIONS

The most interesting anomalism disclosed by this survey is a WNW elongate zone centered near 30N on Lines 3, 4, 5, and 6. This anomaly is somewhat complex and shows considerable variation in strength from line to line and some change in depth and width.

The strongest and shallowest response is on Line 4. The relative anomaly strength is classed as moderate and is in a zone centered near 30N about 1000 feet in width with about 500 feet of weaker fringing response on either side. Depth to the top is interpreted as being within 100 feet of the surface and, in fact, strong fresh pyrite in cuttings was observed at a shallow (20'?) drill hole at 30N Line 4. The concentration of pyrite in these cuttings (visually 5 to 10% estimated by volume) if representative of the anomalous width is more than sufficient to have caused the observed IP response.

This anomaly appears to have good depth extent although the source may decrease somewhat in sulfide content with depth. The attitude of the zone is difficult to estimate although it is likely fairly steeply dipping.

To the east, on Line 5, the anomaly is weaker, somewhat narrower than on Line 4 but still quite shallow. To the west, on Line 6, the anomaly is definitely weaker and deeper and somewhat more narrow than on Line 4. Depth to the source on Line 6 appears to be about 300 feet. Further west, on Line 3, the anomaly is rather weak and deeper yet, roughly 500 feet below surface.

There is no obvious resistivity feature correlating with the anomaly implying quite disseminated mineralization rather than massive mineralization. The fairly high level of resistivity in the anomalous areas suggest rather low porosity (tight or massive) material - perhaps silicified to some degree.

There is no anomalous self potential response associated with the IP anomaly - in further support of truly disseminated mineralization being involved.

Field inspection of the anomalous zone shows it to correlate with an altered, somewhat iron stained area. Oxide copper staining is noted in the altered area particularly in the area near and between Lines 6 and 3. Topographically, Lines 3 and 6 are higher than Lines 4 and 5 which might be, in part, the reason deeper appearing anomalism is seen on Lines 3 and 6 compared to Lines 4 and 5.

Several other minor zones of IP anomalism were noted on the survey. At and north of the Glove Mine on Line 1 is a very weak zone of response which is likely the combined effect of the Glove Mine Anomaly and the narrow anomaly about 800 feet north thereof which correlates with a dark massive limestone as were found on the previous gradient array IP survey of July 1971.

Very weak response on the north ends of Lines 1 and 2 is likely caused by the quartz monzonite in that area and its minor associated mineralization. Several other very weak, small anomalies were located and probably are not significant except perhaps for one near 5N on Line 4. This zone may be a narrow (less than 500 feet in width) shallow feature perhaps similar to the main anomaly near 30N. Or, it may be caused by the combined effect of several nearby fences.

RECOMMENDATIONS

Considering the strength and size of the main anomaly and its correlation with interesting surface copper mineralization and alteration, drilling is definitely recommended to further explore this area.

Several drill holes are suggested to give a preliminary evaluation. One vertical diamond drill hole is recommended collared near 30N on Line 4 and should be programmed for about 1000 feet total depth. This will test the strongest portion of the anomaly for enough depth to get a representative sample and determine if any important vertical mineralization gradient or zoning is present. It is realized that the near surface pyrite seen in the nearby 20 foot drill hole can explain the anomaly, if representative. However, there may be zoning effects on a large or small scale which certainly were not tested in the 20 foot drill hole. The presence of oxide copper just uphill towards Line 6 where the anomaly source is deeper and the surface material more deeply oxidized indicates that some of the primary sulfides are cupriferous and the strongest zone of response near 30N on Line 4 should be tested for this possibility.

Likewise the reasonable possibility of horizontal zoning should be tested by diamond drilling on or near Line 6 to sample the weaker and deeper anomaly in the area of fairly strong copper staining. It is rather common to have a halo of pyritic, strongly IP responsive, mineralization adjacent to more weakly IP responsive, but more cupriferous mineralization. This possibility fits the surface evidence reasonably well and can be tested in part by a 1000 foot (or deeper) drill hole collared near 35N on Line 6 or somewhat south thereof towards 30N. The exact drilling position should weigh in any geologic evidence as well.

If either of these drill holes show encouraging results, additional sites can be picked along the anomalous zone by referring to the IP plan and sections. Additional IP coverage on 500 foot dipoles should be considered on Line 3, between Lines 3 and 6 and to the east of Line 5 where the zone projects open-ended.

Ground magnetics could also prove helpful in defining the subsurface geology and should be considered to guide further drilling if the preliminary drilling is encouraging.

COMMENTS ON DRILLING IP TARGETS

To maximize the probability that a recommended drill hole will intersect the source of an induced polarization anomaly, the following points should be considered:

1. The anomaly has been caused by some physical property, hopefully a polarizable body containing economically interesting metallic mineralization, and this property should be determined before abandoning the anomaly.

2. Location of drill holes should be made relative to the actual

sending and receiving electrode positions as they exist on the ground.

3. Due to inherent limitations in the IP method, depth interpretations are only approximate and the determination of dip is severely limited, particularly for angles greater than 45°. Also, targets can generally be laterally resolved no finer than the station spacing (dipole length). Because of these limitations, targets less than one dipole spacing in width, particularly when steeply dipping or deeper than the dipole length, may be difficult to intersect. In these cases, several drill holes in a fence line should be considered. For the steeply dipping cases, angle drilling may also prove advantageous, mainly where the direction of dip can be geologically inferred and the drill hole oriented such that an optimum intersection of the zone of interest is obtained.

4. An observed anomaly can be the effect of a polarizable body laterally offset to the side of a line and therefore, if practical, drilling should be confined to those portions of the anomalous zones well defined by several lines. Also, it should be noted that a single line cannot define the strike direction of an elongate anomalous zone - another reason for utilizing several parallel lines.

5. Logging of the drill core must be done with special care to note the quantity of all possible polarizable material such as pyrite, graphite, magnetite, manganese oxides and clay minerals as well as the polarizable ore minerals. The anomalous source could conceivably be overlooked if the core is not carefully logged.

6. Typical sections of core representing the gross physical properties of material encountered in the drilling should be tested in the laboratory for their IP parameters, if there is some doubt about confirmation of the anomalous source.

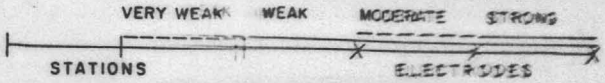
Respectfully submitted,
Heinrichs GEOEXploration Company

Chris S. Ludwig

Chris S. Ludwig
Senior Geophysicist

P. O. Box 5964
Tucson, Arizona 85703
July 1972
GEOEX Job # 716-72

RELATIVE ANOMALY STRENGTH



SECTION CORNER

SCHEMATIC ZONES OF EQUAL RELATIVE ANOMALY STRENGTH

VW VERY WEAK

W WEAK

M MODERATE

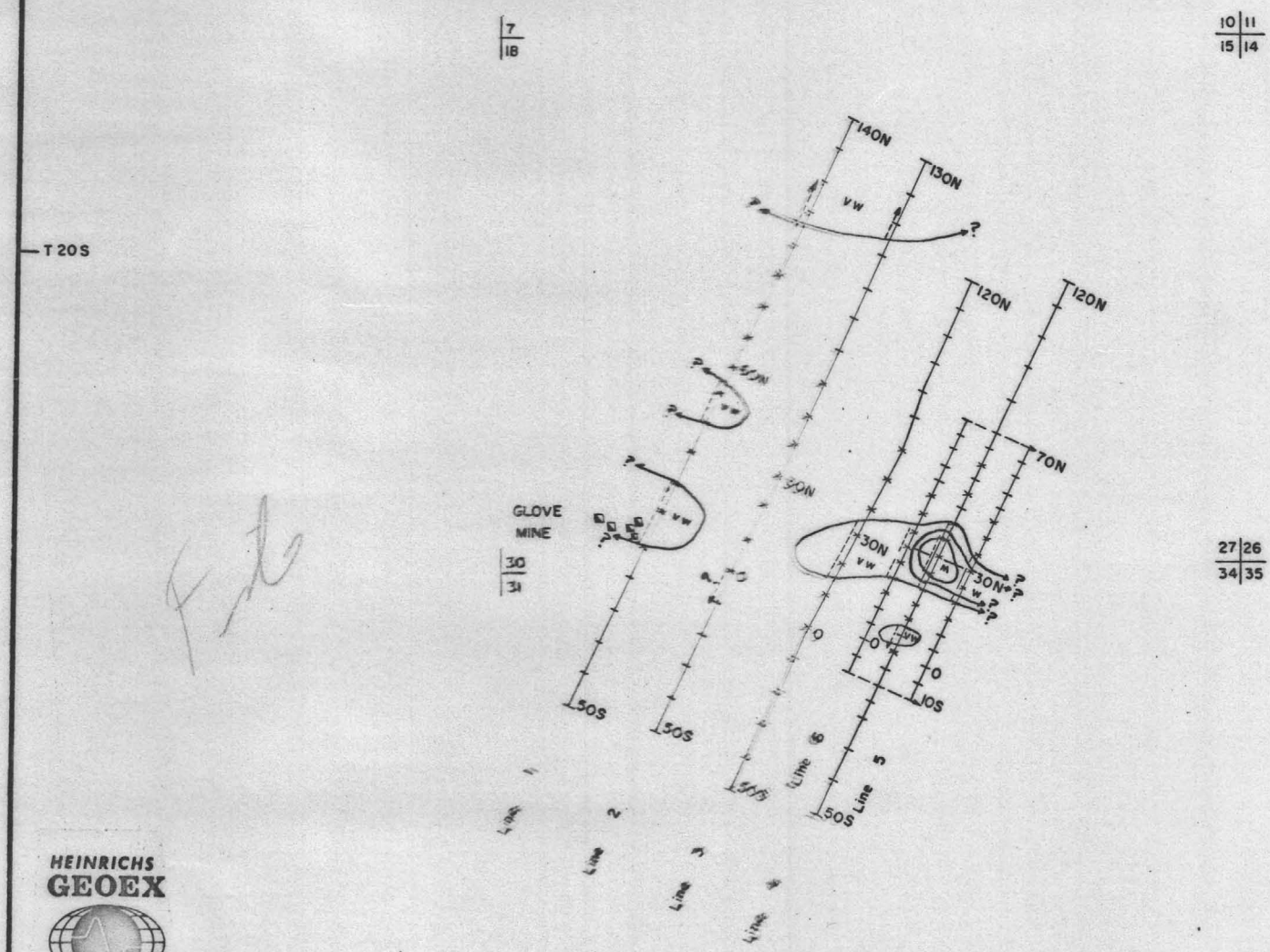
N

R 14 E

INDUCED POLARIZATION LOCATION AND INTERPRETATION PLAN OF THE GLOVE MINE EAST AREA SANTA CRUZ COUNTY, ARIZONA FOR C F & I STEEL CORPORATION BY HEINRICHS GEOEXPLORATION Co.

DATE: JULY 1972 SCALE: 1:62500

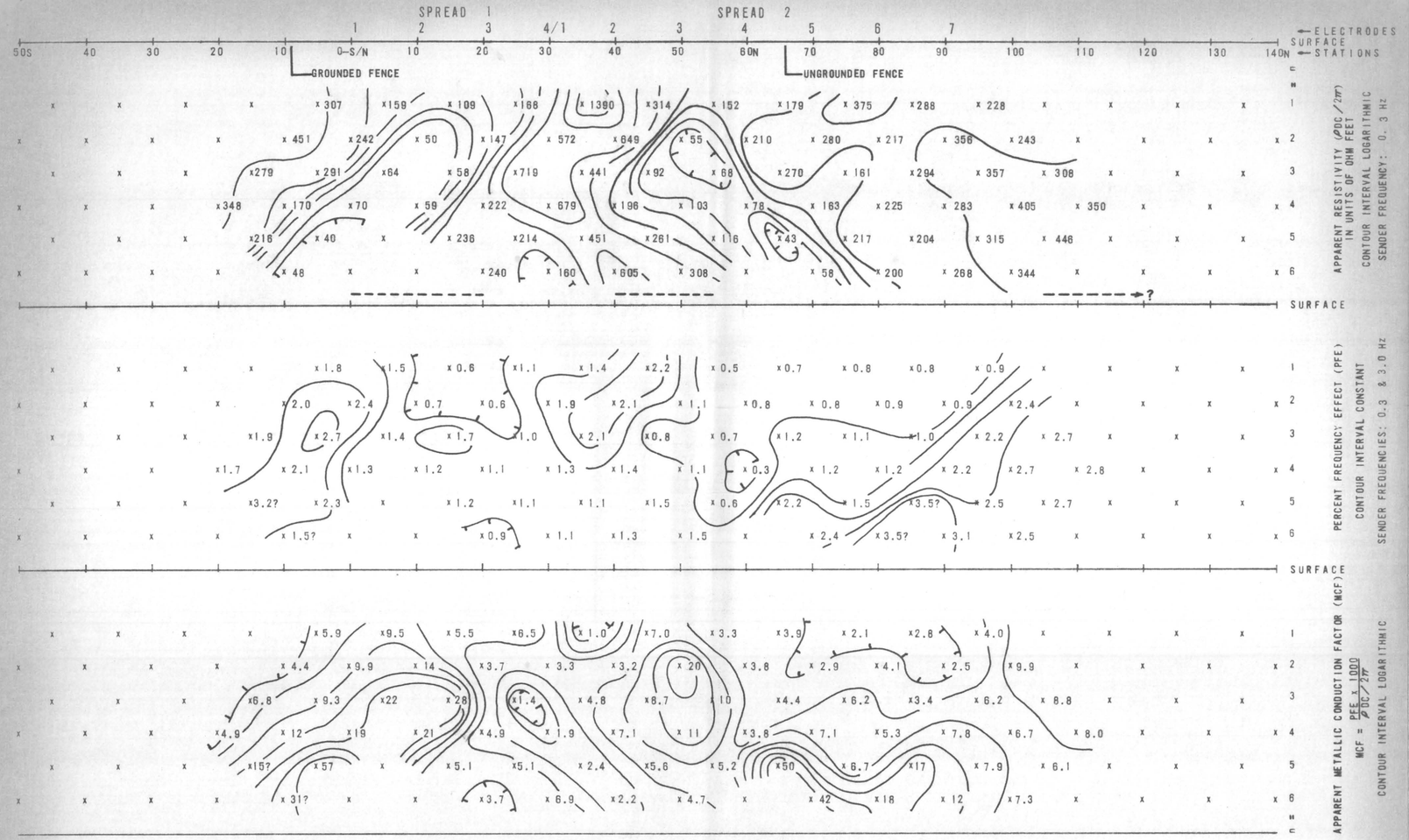
PLAN OVERLAYS A PORTION OF THE U.S.G.S 15 MINUTE TOPOGRAPHIC MT. WRIGHTSON QUADRANGLE.



HEINRICHS GEOEX

geophysical engineers

JOB No. 716-72



716-72

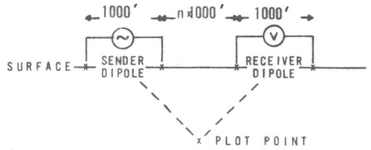
LINE NO.
1
SPREAD(S)
1 & 2

INDUCED POLARIZATION TRAVERSE SECTIONAL DATA SHEET for

C F & I STEEL CORPORATION

RELATIVE ANOMALY STRENGTH

DIPOLE DIPOLE ELECTRODE ARRAY



AREA
GLOVE MINE EAST

LOOKING
N 65° W

DATE
JUNE 1972

File

HEINRICHS
GEOEXPLORATION COMPANY
GEOPHYSICAL ENGINEERS
AUSTRALIA
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Phone: 439-1783
U.S.A.
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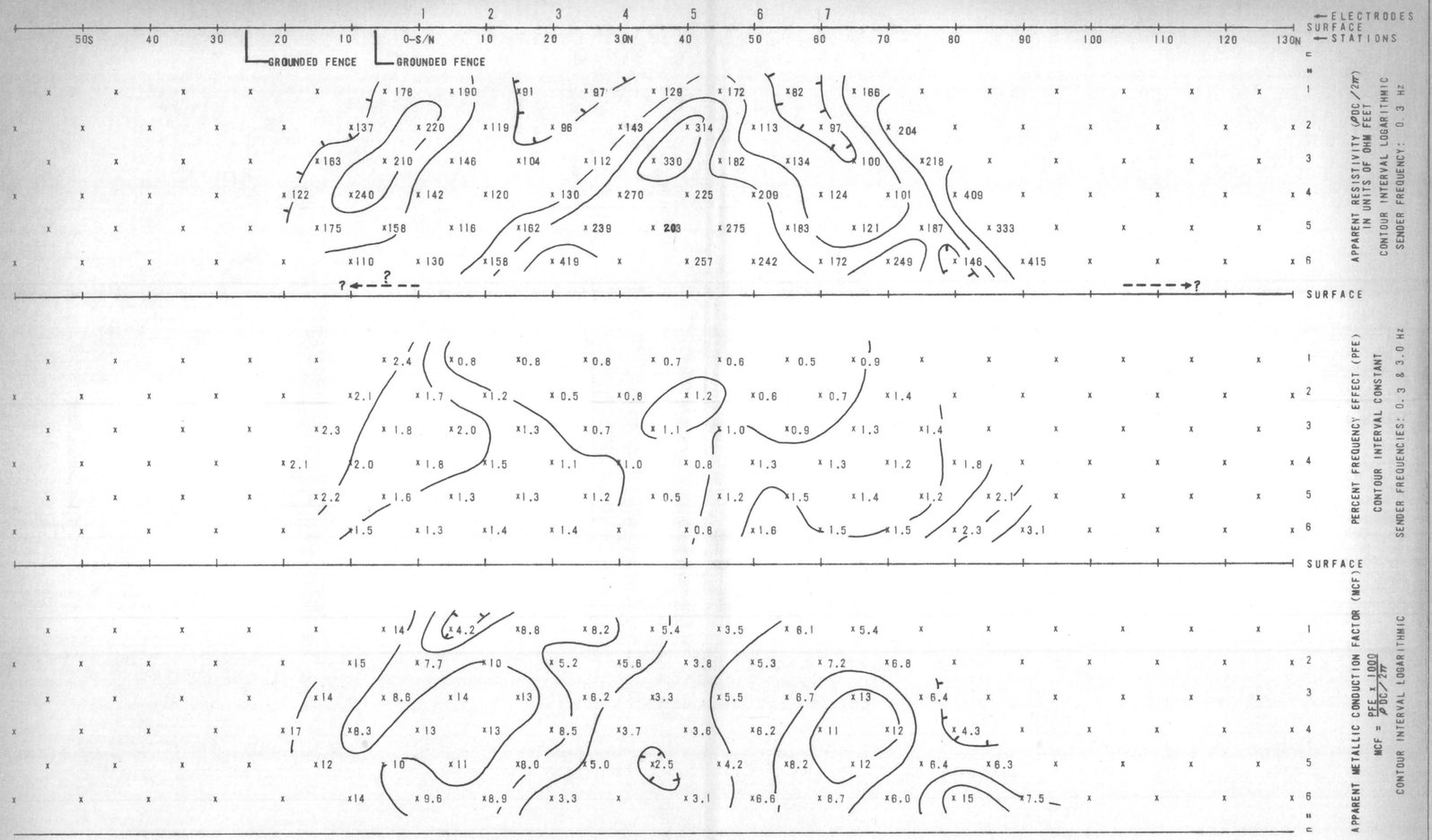
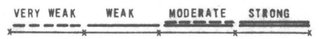


716-72

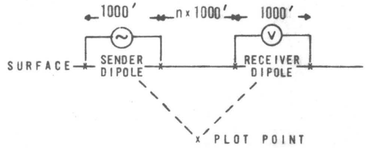
LINE NO.
2
SPREAD(S)
1

INDUCED POLARIZATION TRAVERSE SECTIONAL DATA SHEET for C F & I STEEL CORPORATION

RELATIVE ANOMALY STRENGTH



DIPOLE DIPOLE ELECTRODE ARRAY



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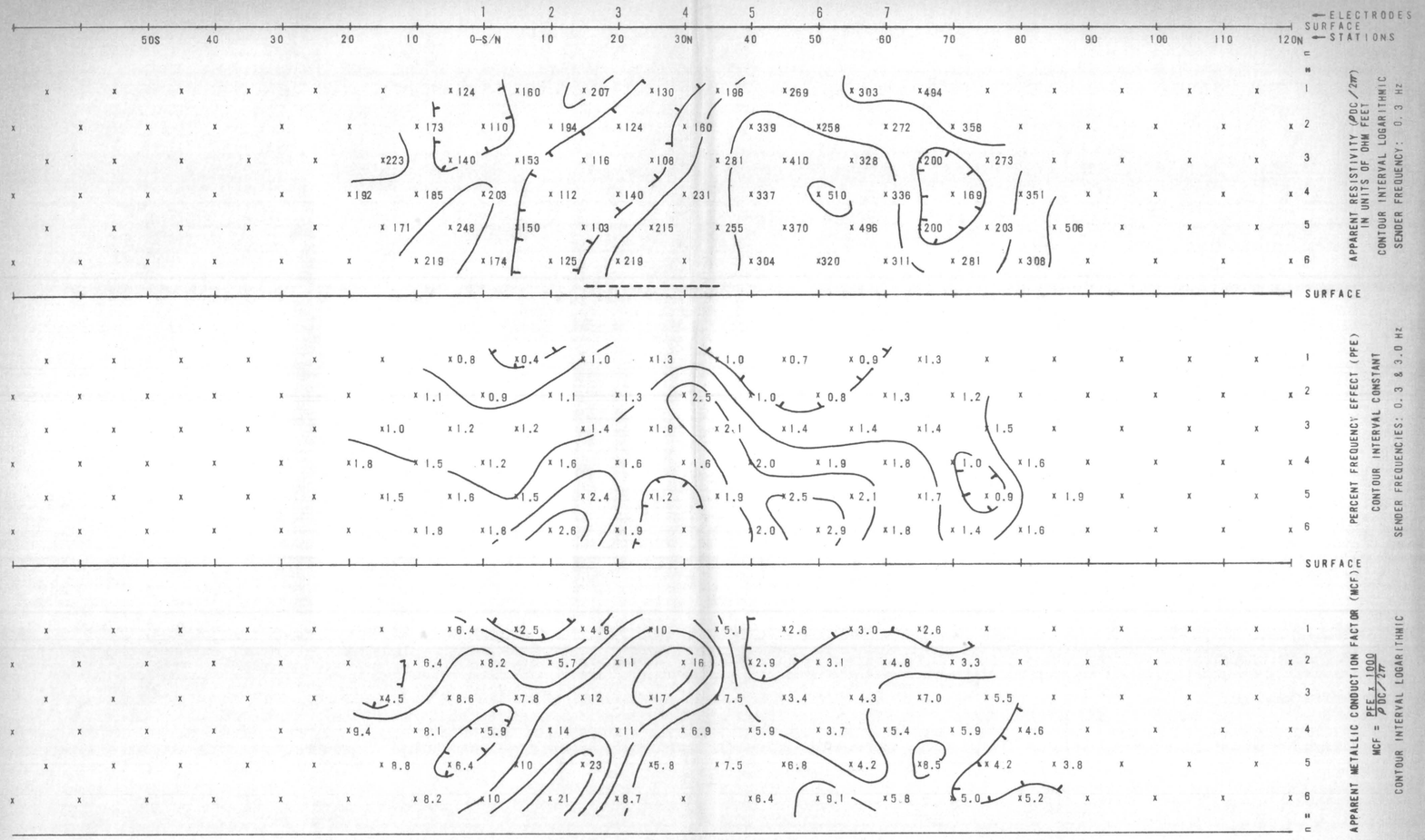


716-72

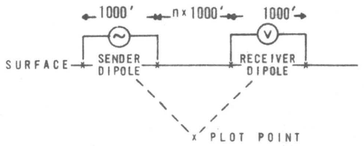
LINE NO.
3
SPREAD(S)
1

INDUCED POLARIZATION TRAVERSE SECTIONAL DATA SHEET for

C F & I STEEL CORPORATION

RELATIVE ANOMALY STRENGTH

DIPOLE DIPOLE ELECTRODE ARRAY



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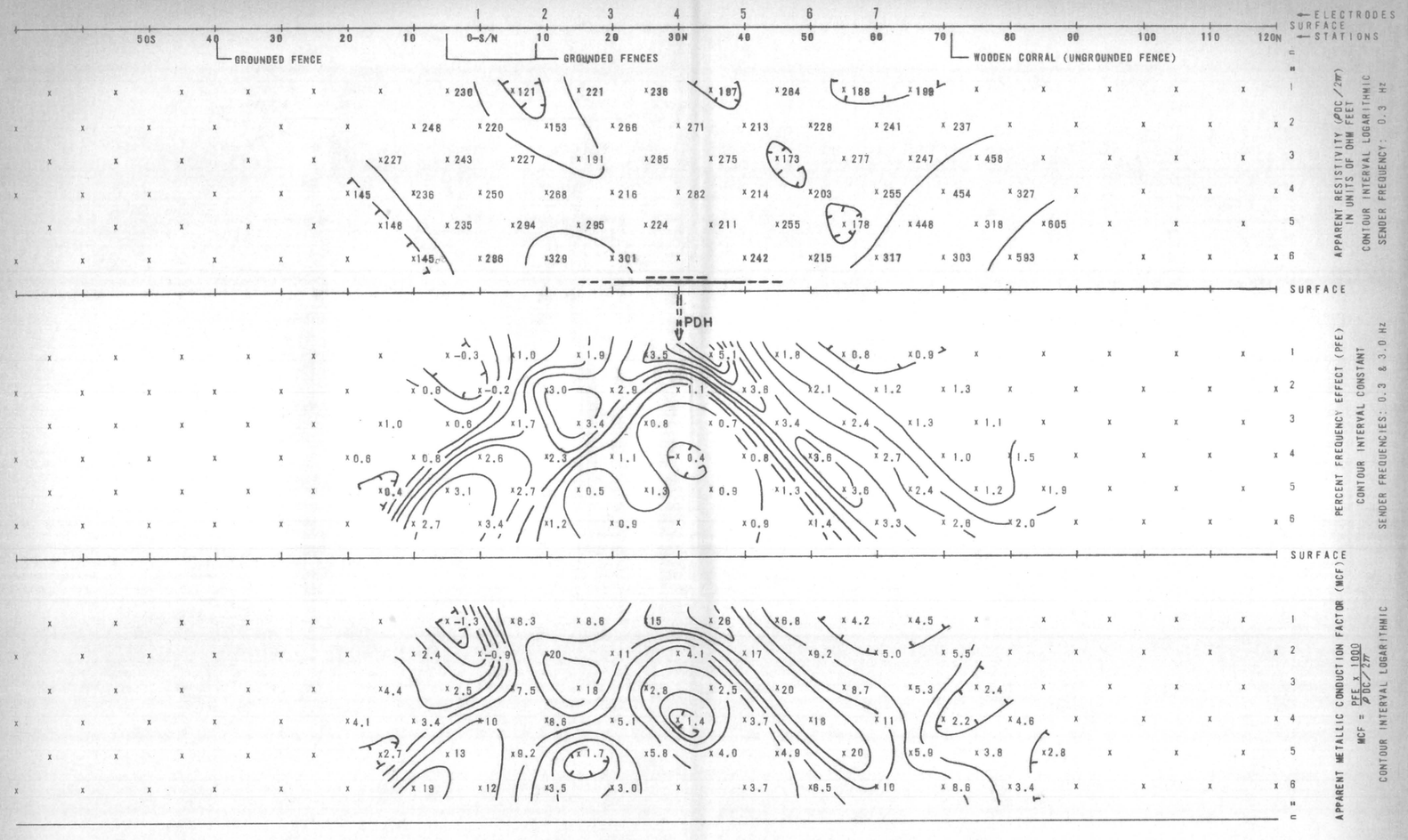


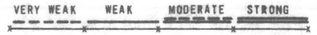
716-72

LINE NO. 4

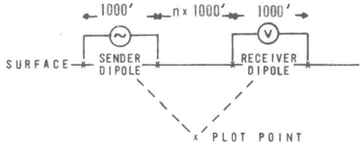
SPREAD(S) 1

INDUCED POLARIZATION TRAVERSE SECTIONAL DATA SHEET for C F & I STEEL CORPORATION

RELATIVE ANOMALY STRENGTH



DIPOLE DIPOLE ELECTRODE ARRAY



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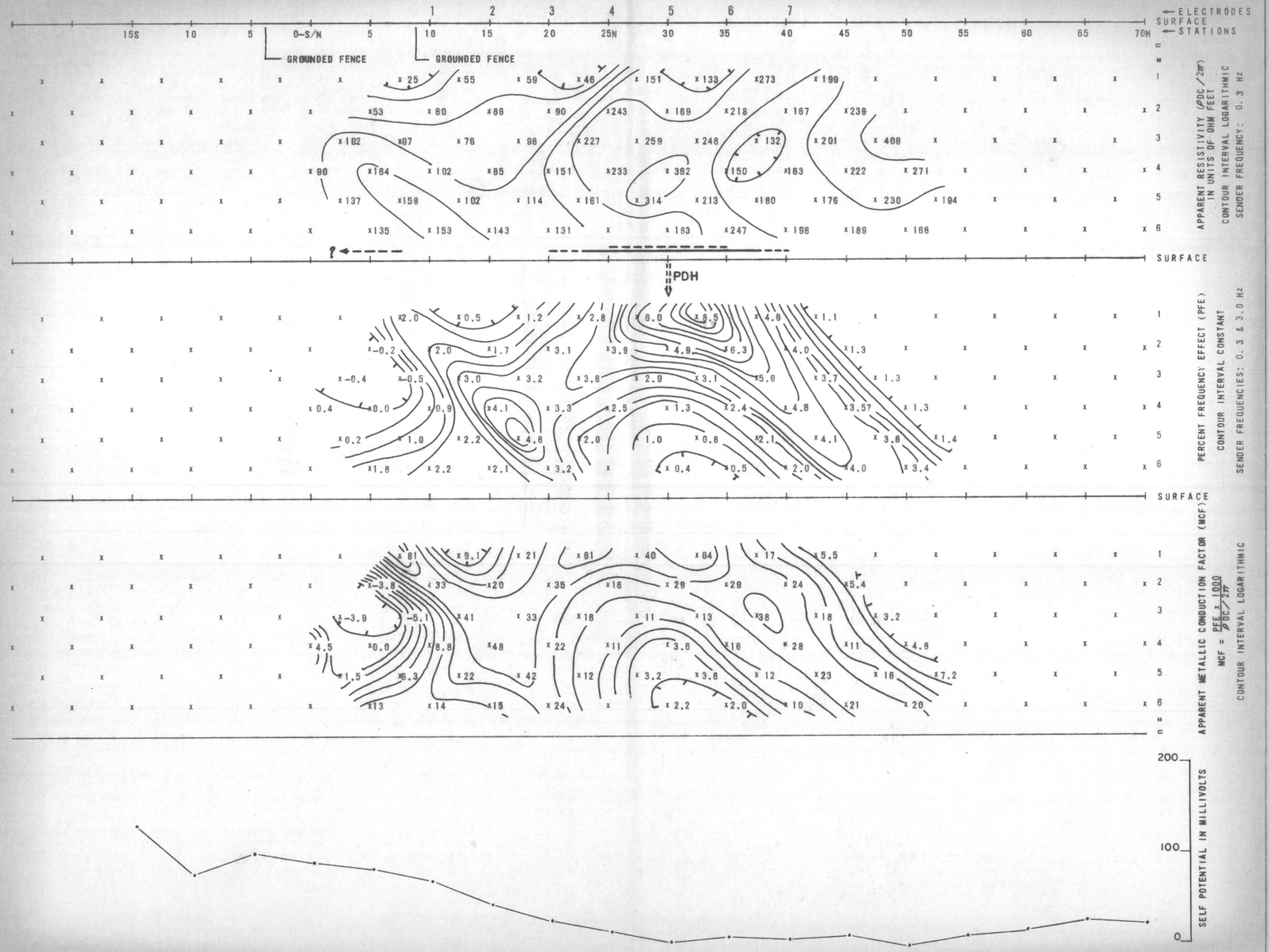


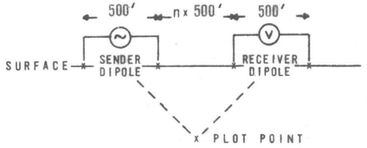
716-72

LINE NO.
4
SPREAD(S)
2

INDUCED POLARIZATION TRAVERSE SECTIONAL DATA SHEET for C F & I STEEL CORPORATION

RELATIVE ANOMALY STRENGTH

DIPOLE DIPOLE ELECTRODE ARRAY



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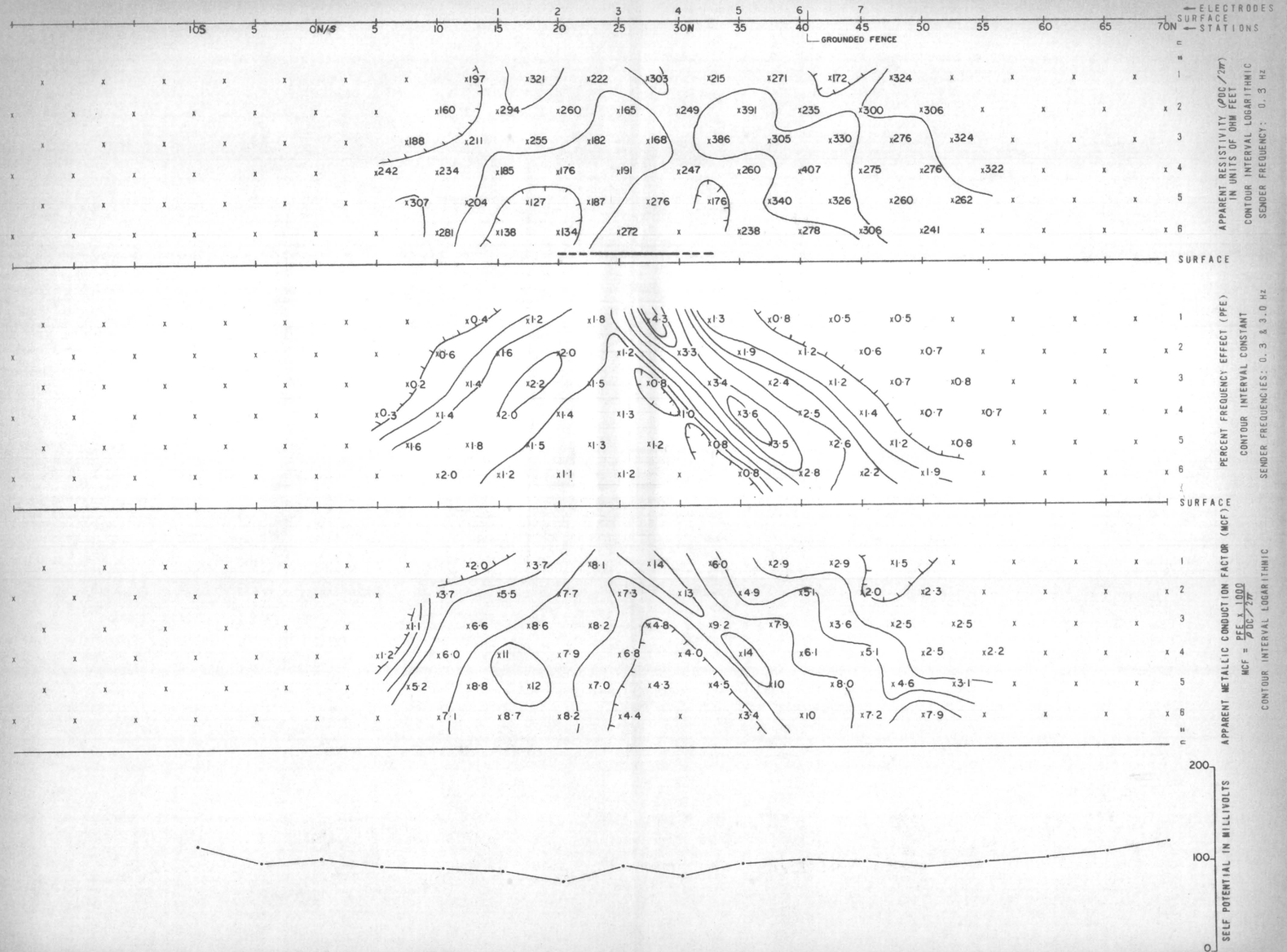
716-72

LINE NO. 5
SPREAD(S) 1

INDUCED POLARIZATION TRAVERSE SECTIONAL DATA SHEET for

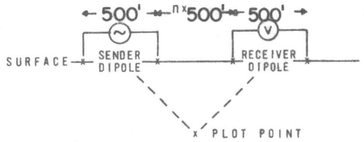
C F & I STEEL CORPORATION



RELATIVE ANOMALY STRENGTH

VERY WEAK — WEAK — MODERATE — STRONG

DIPOLE DIPOLE ELECTRODE ARRAY



AREA

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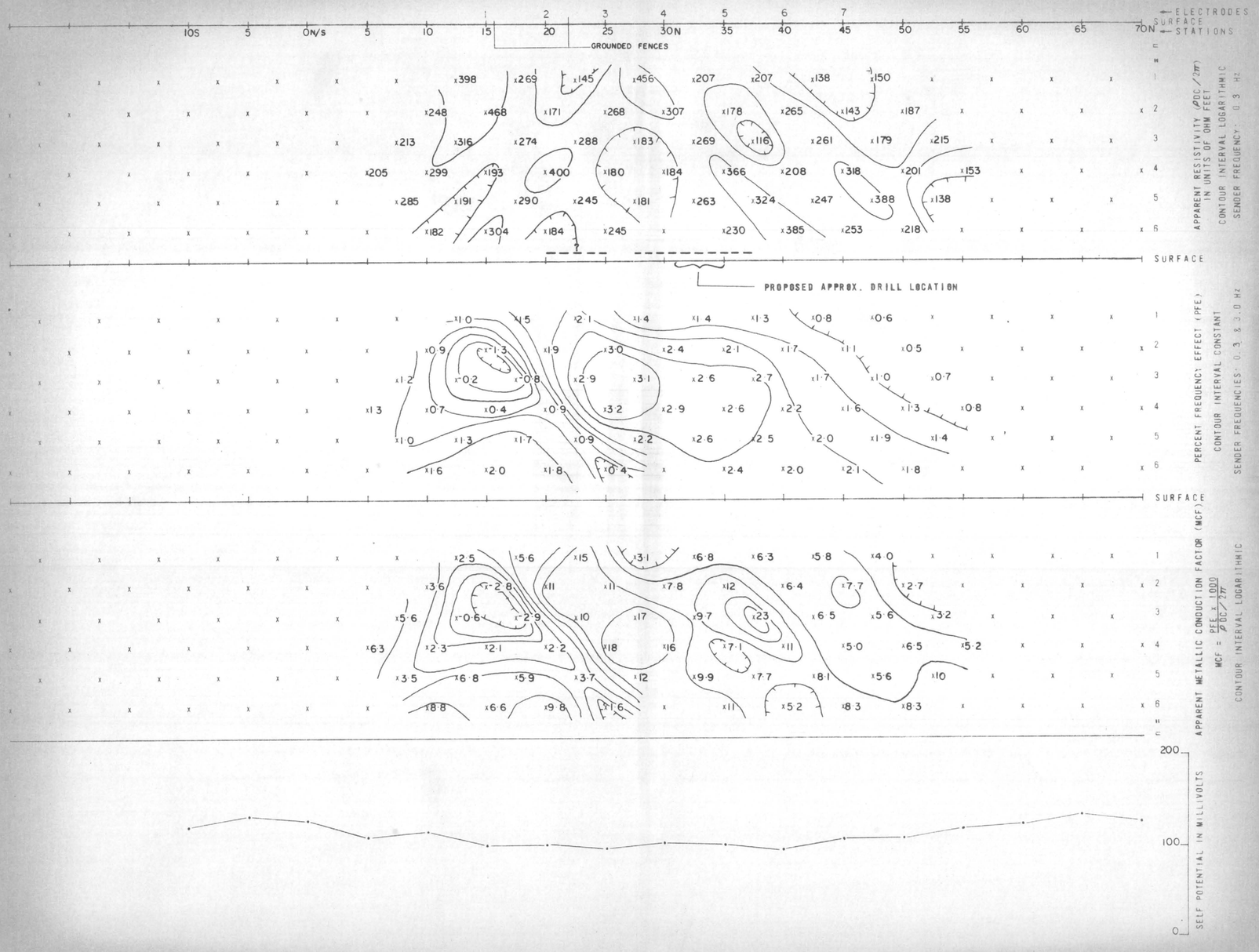
LINE NO.
6
SPREAD(S)
1

INDUCED POLARIZATION TRAVERSE SECTIONAL DATA SHEET for

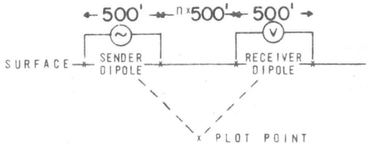
C F & I STEEL CORPORATION



RELATIVE ANOMALY STRENGTH

VERY WEAK — WEAK — MODERATE — STRONG

DIPOLE DIPOLE ELECTRODE ARRAY



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HEINRICHS GEOEXPLORATION CO.
POST OFFICE BOX 5964
TUCSON, ARIZONA (85703)
PHONE 623-0578

JOB 716, LINE 1, SPREADS 1 AND 2, N+S 1/2, 5/31/72 — 1000 FEET=DIPOLE LENGTH
CAL GROUP NO. 1

CAL CUR	PFE	AC1	AC2	AC FREQ	DC FREQ	PFE CAL	RHO CAL
.500	-.10	50.200	0.00	3.00	.30	-.1000	.9960

COMPUTED DATA									FIELD DATA					
POINT NO.	N	RHO	PFE	MCF	CCPFE	CCMCF	CPFE		PFE	CUR	PT.	N	AC1	AC2
1	1	109.22	.60	5.5	.53	4.9	.07	**	.50	1.20	1	1	43.600	0.00
2	1	158.59	1.50	9.5	1.50	9.5	0.00	**	1.40	.48	2	1	25.100	0.00
3	2	50.25	.70	13.9	.00	.0	.70	**	.60	1.20	3	2	5.010	0.00
4	1	306.72	1.80	5.9	1.80	5.9	0.00	**	1.70	1.20	4	1	121.000	0.00
5	2	242.23	2.40	9.9	2.32	9.6	.08	**	2.30	.48	5	2	9.500	0.00
6	3	63.88	1.40	21.9	.25	3.9	1.15	**	1.30	1.20	6	3	2.530	0.00
7	2	451.08	2.00	4.4	2.00	4.4	0.00	**	1.90	1.20	7	2	44.400	0.00
8	3	290.89	2.70	9.3	2.56	8.8	.14	**	2.60	.48	8	3	4.550	0.00
9	4	69.55	1.30	18.7	-.58	-8.4	1.88	**	1.10	1.20	9	4	1.380	-.20
10	3	279.11	1.90	6.8	1.75	6.3	.15	**	1.80	1.20	10	3	11.000	0.00
11	4	170.34	2.10	12.3	1.53	9.0	.57	**	2.00	.48	11	4	1.340	0.00
12	5	40.25	2.30	57.1	-3.70	-91.9	6.00	**	2.30	1.20	12	5	.451	.20
13	4	348.45	1.70	4.9	1.49	4.3	.21	**	1.60	1.20	13	4	6.880	0.00
14	5	215.62	3.20	14.8	2.51	11.6	.69	**	3.20	.48	14	5	.958	.20
15	6	47.70	1.50	31.4	-5.66	-118.6	7.16	**	1.40	1.20	15	6	.337	0.00
16	1	375.49	.80	2.1	.80	2.1	0.00	**	.70	3.00	16	1	374.000	0.00
17	1	287.64	.80	2.8	.80	2.8	0.00	**	.70	4.00	17	1	382.000	0.00
18	2	217.08	.90	4.1	.81	3.7	.09	**	.80	3.00	18	2	54.000	0.00
19	3	161.46	1.00	6.2	.67	4.2	.33	**	.90	.20	19	3	1.070	0.00
20	4	162.73	1.15	7.1	.54	3.3	.61	**	1.00	.30	20	4	.808	-.10
21	5	43.38	2.15	49.6	-3.32	-76.6	5.47	**	2.00	.80	21	5	.325	-.10
22	1	227.63	.90	4.0	.90	4.0	0.00	**	.80	4.00	22	1	302.000	0.00
23	2	355.76	.90	2.5	.90	2.5	0.00	**	.80	4.00	23	2	118.000	0.00
24	3	293.75	1.00	3.4	.86	2.9	.14	**	.90	3.00	24	3	29.200	0.00
25	4	225.06	1.20	5.3	.81	3.6	.39	**	1.00	.40	25	4	1.490	-.20
26	5	216.82	1.45	6.7	.76	3.5	.69	**	1.20	.30	26	5	.614	-.30
27	6	57.62	2.40	41.7	-3.28	-56.9	5.68	**	2.30	.80	27	6	.269	0.00
28	2	242.64	2.40	9.9	2.32	9.6	.08	**	2.30	4.00	28	2	79.300	0.00
29	3	356.53	2.20	6.2	2.09	5.9	.11	**	2.10	4.00	29	3	46.700	0.00
30	4	282.98	2.20	7.8	1.91	6.8	.29	**	2.10	3.00	30	4	13.900	0.00
31	5	204.44	3.45	16.9	2.71	13.2	.74	**	3.20	.40	31	5	.757	-.30
32	6	200.14	3.50	17.5	2.34	11.7	1.16	**	3.60	.30	32	6	.346	.40
33	3	308.41	2.70	8.8	2.57	8.3	.13	**	2.60	4.00	33	3	40.200	0.00
34	4	405.67	2.70	6.7	2.53	6.2	.17	**	2.60	4.00	34	4	26.400	0.00
35	5	315.16	2.50	7.9	2.09	6.6	.41	**	2.40	3.00	35	5	8.820	0.00
36	6	267.83	3.10	11.6	2.31	8.6	.79	**	3.00	.40	36	6	.621	0.00
37	4	350.18	2.80	8.0	2.59	7.4	.21	**	2.70	4.00	37	4	22.800	0.00
38	5	446.27	2.70	6.1	2.44	5.5	.26	**	2.60	2.00	38	5	8.310	0.00
39	6	344.17	2.50	7.3	1.94	5.6	.56	**	2.40	3.00	39	6	6.020	0.00
40	1	178.53	.70	3.9	.70	3.9	0.00	**	.60	3.00	40	1	178.000	0.00
41	2	279.91	.80	2.9	.80	2.9	0.00	**	.70	3.00	41	2	69.700	0.00
42	1	152.15	.50	3.3	.50	3.3	0.00	**	.40	3.00	42	1	152.000	0.00
43	2	210.03	.80	3.8	.70	3.3	.10	**	.70	3.00	43	2	52.300	0.00
44	3	270.14	1.20	4.4	1.04	3.8	.16	**	1.10	3.00	44	3	26.800	0.00
45	1	313.86	2.20	7.0	2.20	7.0	0.00	**	2.10	.90	45	1	92.500	0.00
46	2	54.74	1.10	20.1	.48	8.7	.62	**	1.00	2.00	46	2	9.060	0.00
47	3	68.45	.70	10.2	-.35	-5.1	1.05	**	.60	2.00	47	3	4.550	0.00
48	4	78.22	.30	3.8	-1.32	-16.8	1.62	**	.20	2.00	48	4	2.610	0.00
49	1	1393.75	1.40	1.0	1.40	1.0	0.00	**	1.30	.60	49	1	276.000	0.00
50	2	648.80	2.10	3.2	2.10	3.2	0.00	**	2.00	.60	50	2	31.900	0.00
51	3	91.86	.80	8.7	.09	1.0	.71	**	.70	1.00	51	3	3.050	0.00
52	4	103.01	1.10	10.7	-.03	-.3	1.13	**	1.00	2.00	52	4	3.410	0.00
53	5	115.73	.60	5.2	-.98	-8.5	1.58	**	.50	2.00	53	5	2.200	0.00
54	1	168.16	1.10	6.5	1.10	6.5	0.00	**	1.00	.60	54	1	33.400	0.00
55	2	572.43	1.90	3.3	1.90	3.3	0.00	**	1.80	.60	55	2	28.200	0.00
56	3	440.67	2.10	4.8	2.02	4.6	.08	**	2.00	.90	56	3	13.000	0.00
57	4	196.34	1.40	7.1	.93	4.7	.47	**	1.30	3.00	57	4	9.720	0.00
57	4	196.34	1.40	7.1	.93	4.7	.47	**	1.30	3.00	57	4	9.720	0.00
58	5	260.52	1.45	5.6	.91	3.5	.54	**	1.30	3.00	58	5	7.370	-.10
59	6	307.67	1.45	4.7	.80	2.6	.65	**	1.30	3.00	59	6	5.440	-.10
60	2	147.35	.55	3.7	.39	2.7	.16	**	.40	.60	60	2	7.360	-.10
61	3	719.27	1.00	1.4	1.00	1.4	0.00	**	.90	.60	61	3	14.300	0.00
62	4	679.37	1.30	1.9	1.22	1.8	.08	**	1.20	.90	62	4	10.100	0.00
63	5	451.12	1.10	2.4	.85	1.9	.25	**	1.00	3.00	63	5	12.800	0.00
64	6	604.57	1.30	2.2	1.04	1.7	.26	**	1.20	3.00	64	6	10.700	0.00
65	3	58.30	1.65	28.3	.35	6.1	1.30	**	1.70	.60	65	3	1.150	.30
66	4	222.32	1.10	4.9	.70	3.1	.40	**	.90	.60	66	4	2.210	-.20
67	5	213.81	1.10	5.1	.40	1.9	.70	**	1.00	.90	67	5	1.820	0.00
68	6	159.58	1.10	6.9	-.46	-2.9	1.56	**	1.00	3.00	68	6	2.830	0.00
69	4	58.61	1.20	20.5	-1.15	-19.6	2.35	**	1.00	.60	69	4	.582	-.20
70	5	235.90	1.20	5.1	.59	2.5	.61	**	.90	.60	70	5	1.340	-.40
71	6	240.12	.90	3.7	-.01	-.0	.91	**	.80	.90	71	6	1.280	0.00

HEINRICHS GEOEXPLORATION CO.
POST OFFICE BOX 5964
TUCSON, ARIZONA (85703)
PHONE 623-0578

JOB 716, LINE 2, SPREAD 1, N 1/2, 6/12/72 1000 FEET=DIPOLE LENGTH
CAL GROUP NO. 1

CAL CUR	PFE	AC1	AC2	AC FREQ	DC FREQ	PFE CAL	RHO CAL
1.000	-.10	101.000	0.00	3.00	.30	-.1000	.9901

COMPUTED DATA									FIELD DATA					
POINT NO.	N	RHO	PFE	MCF	CCPFE	CCMCF	CPFE		PFE	CUR	PT.	N	AC1	AC2
1	1	128.77	.70	5.4	.70	5.4	0.00	**	.60	2.00	1	1	86.100	0.00
2	2	143.12	.80	5.6	.63	4.4	.17	**	.70	2.00	2	2	23.900	0.00
3	3	112.17	.70	6.2	.16	1.4	.54	**	.60	4.00	3	3	15.000	0.00
4	1	171.82	.60	3.5	.60	3.5	0.00	**	.50	4.00	4	1	230.000	0.00
5	2	314.42	1.20	3.8	1.20	3.8	0.00	**	1.10	2.00	5	2	52.300	0.00
6	3	330.33	1.10	3.3	.98	3.0	.12	**	1.00	2.00	6	3	22.000	0.00
7	4	270.00	1.00	3.7	.69	2.6	.31	**	.90	4.00	7	4	18.000	0.00
8	1	81.94	.50	6.1	.40	4.9	.10	**	.40	4.00	8	1	109.800	0.00
9	2	112.95	.60	5.3	.37	3.3	.23	**	.50	4.00	9	2	37.800	0.00
10	3	181.50	1.00	5.5	.72	4.0	.28	**	.90	2.00	10	3	12.100	0.00
11	4	224.55	.80	3.6	.41	1.8	.39	**	.70	2.00	11	4	7.500	0.00
12	5	203.39	.50	2.5	-.25	-1.2	.75	**	.40	3.00	12	5	5.840	0.00
13	1	165.84	.90	5.4	.90	5.4	0.00	**	.80	3.00	13	1	166.000	0.00
14	2	96.91	.70	7.2	.41	4.3	.29	**	.60	4.00	14	2	32.400	0.00
15	3	134.12	.90	6.7	.48	3.6	.42	**	.80	4.00	15	3	17.900	0.00
16	4	208.62	1.30	6.2	.86	4.1	.44	**	1.20	3.00	16	4	10.400	0.00
17	5	274.59	1.15	4.2	.65	2.4	.50	**	1.10	2.00	17	5	5.220	.10
18	6	256.53	.80	3.1	-.03	-.1	.83	**	.70	3.00	18	6	4.590	0.00
19	2	204.41	1.40	6.8	1.30	6.4	.10	**	1.30	3.00	19	2	50.900	0.00
20	3	100.00	1.25	12.5	.62	6.2	.63	**	1.20	3.00	20	3	9.970	.10
21	4	124.17	1.30	10.5	.42	3.4	.88	**	1.20	3.00	21	4	6.190	0.00
22	5	183.25	1.50	8.2	.64	3.5	.86	**	1.40	3.00	22	5	5.210	0.00
23	6	241.67	1.60	6.6	.70	2.9	.90	**	1.50	3.00	23	6	4.290	0.00
24	3	217.86	1.40	6.4	1.18	5.4	.22	**	1.30	3.00	24	3	21.700	0.00
25	4	100.80	1.20	11.9	.04	.4	1.16	**	1.10	3.00	25	4	5.030	0.00
26	5	120.88	1.40	11.6	-.09	-.8	1.49	**	1.30	3.00	26	5	3.440	0.00
27	6	171.65	1.50	8.7	.08	.5	1.42	**	1.40	3.00	27	6	3.050	0.00
28	4	409.22	1.77	4.3	1.60	3.9	.17	**	1.70	3.00	28	4	20.300	.05
29	5	186.92	1.20	6.4	.36	1.9	.84	**	1.10	3.00	29	5	5.330	0.00
30	6	248.75	1.50	6.0	.63	2.5	.87	**	1.40	3.00	30	6	4.420	0.00
31	5	332.94	2.10	6.3	1.72	5.2	.38	**	2.00	3.00	31	5	9.410	0.00
32	6	146.34	2.25	15.4	.50	3.4	1.75	**	2.20	3.00	32	6	2.580	.10
33	6	415.01	3.10	7.5	2.66	6.4	.44	**	3.00	3.00	33	6	7.260	0.00

HEINRICHS GEOEXPLORATION CO.
POST OFFICE BOX 5964
TUCSON, ARIZONA (85703)
PHONE 623-0578

JOB 716, LINE 3, SPREAD 1, S 1/2, 6/15/72 1000 FEET=DIPOLE LENGTH
CAL GROUP NO. 1

CAL CUR	PFE	AC1	AC2	AC FREQ	DC FREQ	PFE CAL	RHO CAL
1.000	-.10	101.000	0.00	3.00	.30	-.1000	.9901

COMPUTED DATA									FIELD DATA					
POINT NO.	N	RHO	PFE	MCF	CCPFE	CCMCF	CPFE		PFE	CUR	PT.	N	AC1	AC2
1	1	269.20	.70	2.6	.70	2.6	0.00	**	.60	4.00	1	1	360.000	0.00
2	1	195.75	1.00	5.1	1.00	5.1	0.00	**	.90	4.00	2	1	261.000	0.00
3	2	339.00	1.00	2.9	1.00	2.9	0.00	**	.90	4.00	3	2	113.000	0.00
4	1	129.88	1.30	10.0	1.30	10.0	0.00	**	1.20	6.00	4	1	259.000	0.00
5	2	159.53	2.50	15.7	2.36	14.8	.14	**	2.40	4.00	5	2	52.400	0.00
6	3	281.28	2.10	7.5	1.95	6.9	.15	**	2.00	4.00	6	3	37.100	0.00
7	1	206.50	1.00	4.8	1.00	4.8	0.00	**	.90	6.00	7	1	413.000	0.00
8	2	124.17	1.30	10.5	1.10	8.8	.20	**	1.20	6.00	8	2	61.900	0.00
9	3	108.35	1.80	16.6	1.23	11.4	.57	**	1.70	6.00	9	3	21.500	0.00
10	4	230.86	1.60	6.9	1.22	5.3	.38	**	1.50	4.00	10	4	15.300	0.00
11	1	159.55	.40	2.5	.40	2.5	0.00	**	.30	6.00	11	1	321.000	0.00
12	2	193.59	1.10	5.7	.99	5.1	.11	**	1.00	6.00	12	2	96.700	0.00
13	3	115.96	1.40	12.1	.88	7.6	.52	**	1.30	6.00	13	3	23.100	0.00
14	4	140.18	1.60	11.4	.85	6.1	.75	**	1.50	4.00	14	4	9.290	0.00
15	5	214.62	1.20	5.6	.50	2.3	.70	**	1.10	4.00	15	5	8.160	0.00
16	1	124.25	.80	6.4	.80	6.4	0.00	**	.70	6.00	16	1	249.000	0.00
17	2	110.09	.90	8.2	.66	6.0	.24	**	.80	6.00	17	2	55.100	0.00
18	3	153.30	1.20	7.8	.85	5.5	.35	**	1.10	6.00	18	3	30.600	0.00
19	4	111.66	1.60	14.3	.59	5.3	1.01	**	1.50	6.00	19	4	11.100	0.00
20	5	102.89	2.35	22.8	.51	5.0	1.84	**	2.20	4.00	20	5	3.870	-.10
21	6	218.65	1.90	8.7	.87	4.0	1.03	**	1.80	4.00	21	6	5.160	0.00
22	2	172.57	1.10	6.4	.97	5.6	.13	**	1.00	6.00	22	2	86.200	0.00
23	3	140.28	1.20	8.6	.80	5.7	.40	**	1.10	6.00	23	3	28.000	0.00
24	4	203.40	1.20	5.9	.75	3.7	.45	**	1.10	6.00	24	4	20.300	0.00
25	5	149.84	1.50	10.0	.38	2.5	1.12	**	1.40	6.00	25	5	8.520	0.00
26	6	125.01	2.60	20.8	.46	3.6	2.14	**	2.50	4.00	26	6	2.930	0.00
27	3	222.50	1.00	4.5	.79	3.5	.21	**	.90	6.00	27	3	44.500	0.00
28	4	184.91	1.50	8.1	.99	5.3	.51	**	1.40	6.00	28	4	18.400	0.00
29	5	248.22	1.60	6.4	1.03	4.1	.57	**	1.50	6.00	29	5	14.100	0.00
30	6	173.56	1.80	10.4	.40	2.3	1.40	**	1.70	6.00	30	6	6.150	0.00
31	4	191.50	1.80	9.4	1.31	6.8	.49	**	1.70	6.00	31	4	19.000	0.00
32	5	170.94	1.50	8.8	.56	3.3	.94	**	1.40	6.00	32	5	9.720	0.00
33	6	218.72	1.80	8.2	.77	3.5	1.03	**	1.70	6.00	33	6	7.750	0.00

HEINRICHS GEOEXPLORATION CO.
POST OFFICE BOX 5964
TUCSON, ARIZONA (85703)
PHONE 623-0578

JOB 716, LINE 4, SPREAD 1, N+S 1/2, 6/19/72 — 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	100.100	0.00	3.00	.30	0.0000	.9990

COMPUTED DATA									FIELD DATA					
POINT NO.	N	RHO	PFE	MCF	CCPFE	CCMCF	CPFE		PFE	CUR	PT.	N	AC1	AC2
1	1	263.91	1.80	6.8	1.80	6.8	0.00	**	1.80	4.00	1	1	346.000	0.00
2	1	188.31	.80	4.2	.80	4.2	0.00	**	.80	3.00	2	1	187.000	0.00
3	2	227.66	2.10	9.2	2.01	8.8	.09	**	2.10	4.00	3	2	74.400	0.00
4	3	172.76	3.40	19.7	3.10	17.9	.30	**	3.40	4.00	4	3	22.300	0.00
5	4	214.49	.80	3.7	.38	1.8	.42	**	.80	4.00	5	4	14.200	0.00
6	5	211.41	.85	4.0	.14	.7	.71	**	.90	4.00	6	5	7.990	.10
7	1	198.57	.90	4.5	.90	4.5	0.00	**	.90	3.00	7	1	197.000	0.00
8	2	241.83	1.20	5.0	1.12	4.6	.08	**	1.20	3.00	8	2	59.800	0.00
9	3	276.97	2.40	8.7	2.24	8.1	.16	**	2.40	4.00	9	3	36.100	0.00
10	4	203.37	3.60	17.7	3.15	15.5	.45	**	3.60	4.00	10	4	13.100	0.00
11	5	255.29	1.25	4.9	.70	2.7	.55	**	1.30	4.00	11	5	9.610	.10
12	6	241.74	.90	3.7	-.00	-.0	.90	**	.90	4.00	12	6	5.710	0.00
13	2	236.81	1.30	5.5	1.22	5.1	.08	**	1.30	3.00	13	2	58.500	0.00
14	3	246.93	1.30	5.3	1.12	4.5	.18	**	1.30	3.00	14	3	24.400	0.00
15	4	255.47	2.70	10.6	2.37	9.3	.33	**	2.70	4.00	15	4	16.600	0.00
16	5	178.22	3.60	20.2	2.71	15.2	.89	**	3.60	4.00	16	5	6.560	0.00
17	6	215.28	1.40	6.5	.35	1.6	1.05	**	1.40	4.00	17	6	5.060	0.00
18	3	457.53	1.10	2.4	1.02	2.2	.08	**	1.10	3.00	18	3	45.300	0.00
19	4	454.05	1.00	2.2	.85	1.9	.15	**	1.00	3.00	19	4	22.500	0.00
20	5	448.45	2.40	5.4	2.15	4.8	.25	**	2.40	4.00	20	5	16.700	0.00
21	6	316.83	3.30	10.4	2.67	8.4	.63	**	3.30	4.00	21	6	7.310	0.00
22	4	326.50	1.50	4.6	1.26	3.9	.24	**	1.50	3.00	22	4	16.100	0.00
23	5	318.11	1.20	3.8	.79	2.5	.41	**	1.20	3.00	23	5	8.990	0.00
24	6	303.06	2.60	8.6	1.93	6.4	.67	**	2.60	4.00	24	6	7.040	0.00
25	5	604.51	1.70	2.8	1.53	2.5	.17	**	1.70	3.00	25	5	17.000	0.00
26	6	593.45	2.00	3.4	1.73	2.9	.27	**	2.00	3.00	26	6	10.400	0.00
27	1	196.87	5.10	25.9	5.10	25.9	0.00	**	5.10	2.00	27	1	125.000	0.00
28	2	213.00	3.60	16.9	3.51	16.5	.09	**	3.60	2.00	28	2	34.300	0.00
29	1	235.74	3.50	14.8	3.50	14.8	0.00	**	3.50	2.00	29	1	152.000	0.00
30	2	271.49	1.10	4.1	1.10	4.1	0.00	**	1.10	2.00	30	2	44.800	0.00
31	3	274.64	.70	2.5	.54	2.0	.16	**	.70	2.00	31	3	18.200	0.00
32	1	221.41	1.90	8.6	1.90	8.6	0.00	**	1.90	2.00	32	1	145.000	0.00
33	2	266.45	2.90	10.9	2.90	10.9	0.00	**	2.90	2.00	33	2	43.200	0.00
34	3	285.48	.80	2.8	.65	2.3	.15	**	.80	2.00	34	3	18.900	0.00
35	4	282.24	.40	1.4	.11	.4	.29	**	.40	2.00	35	4	9.380	0.00
36	1	120.78	1.00	8.3	1.00	8.3	0.00	**	1.00	2.00	36	1	79.800	0.00
37	2	153.11	3.00	19.6	2.85	18.6	.15	**	3.00	2.00	37	2	24.800	0.00
38	3	190.58	3.40	17.8	3.14	16.5	.26	**	3.40	2.00	38	3	12.300	0.00
39	4	216.04	1.10	5.1	.68	3.2	.42	**	1.10	2.00	39	4	7.130	0.00
40	5	223.67	1.30	5.8	.64	2.9	.66	**	1.30	2.00	40	5	4.210	0.00
41	1	230.08	-.30	-1.3	-.30	-1.3	0.00	**	-.30	2.00	41	1	154.000	0.00
42	2	219.54	-.20	-.9	-.29	-1.3	.09	**	-.20	2.00	42	2	36.700	0.00
43	3	227.07	1.70	7.5	1.50	6.6	.20	**	1.70	2.00	43	3	14.900	0.00
44	4	267.96	2.30	8.6	1.99	7.4	.31	**	2.30	2.00	44	4	8.740	0.00
45	5	294.65	.50	1.7	.05	.2	.45	**	.50	2.00	45	5	5.590	0.00
46	6	300.58	.90	3.0	.23	.7	.67	**	.90	2.00	46	6	3.550	0.00
47	2	248.43	.60	2.4	.52	2.1	.08	**	.60	2.00	47	2	41.200	0.00
48	3	242.71	.60	2.5	.41	1.7	.19	**	.60	2.00	48	3	16.100	0.00
49	4	249.99	2.60	10.4	2.26	9.0	.34	**	2.60	2.00	49	4	8.130	0.00
50	5	293.56	2.70	9.2	2.24	7.6	.46	**	2.70	2.00	50	5	5.450	0.00
51	6	328.65	1.15	3.5	.55	1.7	.60	**	1.20	2.00	51	6	3.870	.10
52	3	227.02	1.00	4.4	.80	3.5	.20	**	1.00	2.00	52	3	15.000	0.00
53	4	236.24	.80	3.4	.43	1.8	.37	**	.80	2.00	53	4	7.820	0.00
54	5	234.68	3.10	13.2	2.48	10.6	.62	**	3.10	2.00	54	5	4.340	0.00
55	6	286.34	3.40	11.9	2.68	9.4	.72	**	3.40	2.00	55	6	3.300	0.00
56	4	145.02	.60	4.1	-.11	-.8	.71	**	.60	2.00	56	4	4.810	0.00
57	5	147.82	.40	2.7	-.74	-5.0	1.14	**	.30	2.00	57	5	2.810	-.20
58	6	144.79	2.70	18.6	.93	6.4	1.77	**	2.70	2.00	58	6	1.680	0.00

HEINRICHS GEOEXPLORATION CO.
POST OFFICE BOX 5964
TUCSON, ARIZONA (85703)
PHONE 623-0578

JOB 716, LINE 3.5, SPREAD 1, N+S 1/2, 6/23/72 — 500 FEET=DIPOLE LENGTH

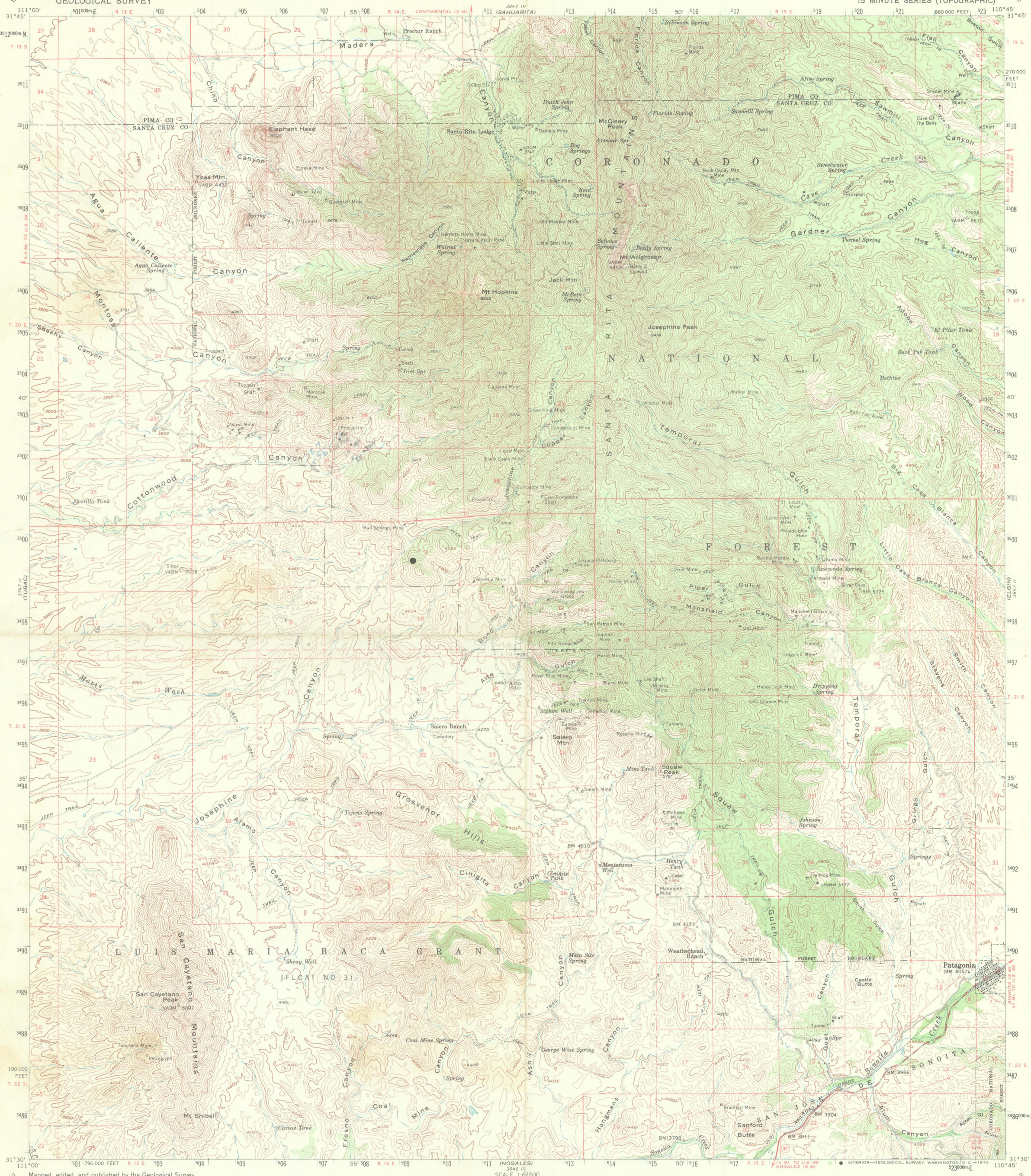
CAL GROUP NO. 1

CAL CUR	PFE	AC1	AC2	AC FREQ	DC FREQ	PFE CAL	RHO CAL
1.000	0.00	100.600	0.00	3.00	.30	0.0000	.9940

COMPUTED DATA									FIELD DATA					
POINT NO.	N	RHO	PFE	MCF	CCPFE	CCMCF	CPFE		PFE	CUR	PT.	N	AC1	AC2
1	1	207.13	1.40	6.8	1.40	6.8	0.00	**	1.40	1.00	1	1	137.000	0.00
2	2	307.20	2.40	7.8	2.40	7.8	0.00	**	2.40	2.00	2	2	100.600	0.00
3	3	182.94	3.10	16.9	3.10	16.9	0.00	**	3.10	2.00	3	3	23.800	0.00
4	1	206.93	1.30	6.3	1.30	6.3	0.00	**	1.30	2.00	4	1	274.000	0.00
5	2	177.81	2.10	11.8	2.10	11.8	0.00	**	2.10	1.00	5	2	29.200	0.00
6	3	269.25	2.60	9.7	2.60	9.7	0.00	**	2.60	2.00	6	3	35.200	0.00
7	4	184.12	2.90	15.8	2.90	15.8	0.00	**	2.90	2.00	7	4	12.000	0.00
8	1	137.52	.80	5.8	.80	5.8	0.00	**	.80	2.00	8	1	183.000	0.00
9	2	264.76	1.70	6.4	1.70	6.4	0.00	**	1.70	2.00	9	2	87.300	0.00
10	3	115.61	2.70	23.4	2.70	23.4	0.00	**	2.70	2.00	10	3	15.100	0.00
11	4	365.63	2.60	7.1	2.60	7.1	0.00	**	2.60	2.00	11	4	23.900	0.00
12	5	263.44	2.60	9.9	2.60	9.9	0.00	**	2.60	2.00	12	5	9.840	0.00
13	1	150.00	.60	4.0	.60	4.0	0.00	**	.60	2.00	13	1	200.000	0.00
14	2	142.91	1.10	7.7	1.10	7.7	0.00	**	1.10	2.00	14	2	47.400	0.00
15	3	260.82	1.70	6.5	1.70	6.5	0.00	**	1.70	2.00	15	3	34.400	0.00
16	4	207.55	2.20	10.6	2.20	10.6	0.00	**	2.20	1.00	16	4	6.810	0.00
17	5	323.62	2.50	7.7	2.50	7.7	0.00	**	2.50	2.00	17	5	12.100	0.00
18	6	229.58	2.40	10.5	2.26	9.8	.14	**	2.40	2.00	18	6	5.370	0.00
19	2	187.31	.50	2.7	.50	2.7	0.00	**	.50	2.00	19	2	62.500	0.00
20	3	179.21	1.00	5.6	1.00	5.6	0.00	**	1.00	2.00	20	3	23.800	0.00
21	4	318.13	1.60	5.0	1.60	5.0	0.00	**	1.60	2.00	21	4	21.000	0.00
22	5	246.99	2.00	8.1	1.92	7.8	.08	**	2.00	1.00	22	5	4.640	0.00
23	6	384.54	2.00	5.2	2.00	5.2	0.00	**	2.00	2.00	23	6	9.030	0.00
24	3	215.46	.70	3.2	.70	3.2	0.00	**	.70	2.00	24	3	28.700	0.00
25	4	200.89	1.30	6.5	1.30	6.5	0.00	**	1.30	2.00	25	4	13.300	0.00
26	5	337.68	1.90	5.6	1.90	5.6	0.00	**	1.90	2.00	26	5	12.700	0.00
27	6	253.20	2.10	8.3	1.97	7.8	.13	**	2.10	1.00	27	6	2.970	0.00
28	4	153.45	.80	5.2	.70	4.6	.10	**	.80	2.00	28	4	10.210	0.00
29	5	138.38	1.40	10.1	1.21	8.7	.19	**	1.40	2.00	29	5	5.230	0.00
30	6	217.61	1.80	8.3	1.64	7.6	.16	**	1.80	2.00	30	6	5.120	0.00
31	1	455.85	1.40	3.1	1.40	3.1	0.00	**	1.40	2.00	31	1	603.000	0.00
32	1	145.08	2.10	14.5	2.10	14.5	0.00	**	2.10	1.00	32	1	95.300	0.00
33	2	268.46	3.00	11.2	3.00	11.2	0.00	**	3.00	2.00	33	2	87.400	0.00
34	1	268.63	1.50	5.6	1.50	5.6	0.00	**	1.50	2.00	34	1	355.000	0.00
35	2	171.39	1.90	11.1	1.90	11.1	0.00	**	1.90	1.00	35	2	28.200	0.00
36	3	288.45	2.90	10.1	2.90	10.1	0.00	**	2.90	2.00	36	3	37.600	0.00
37	4	180.04	3.20	17.8	3.12	17.3	.08	**	3.20	2.00	37	4	11.700	0.00
38	5	180.81	2.20	12.2	2.07	11.4	.13	**	2.20	2.00	38	5	6.780	0.00
39	1	397.57	1.00	2.5	1.00	2.5	0.00	**	1.00	2.00	39	1	528.000	0.00
40	2	467.99	-1.30	-2.8	-1.30	-2.8	0.00	**	-1.30	2.00	40	2	159.000	0.00
41	3	273.64	-.80	-2.9	-.80	-2.9	0.00	**	-.80	1.00	41	3	18.500	0.00
42	4	400.19	.90	2.2	.90	2.2	0.00	**	.90	2.00	42	4	26.600	0.00
43	5	244.59	.90	3.7	.82	3.3	.08	**	.90	2.00	43	5	9.290	0.00
44	6	245.21	.40	1.6	.27	1.1	.13	**	.40	2.00	44	6	5.850	0.00
45	2	247.94	.90	3.6	.90	3.6	0.00	**	.90	2.00	45	2	82.400	0.00
46	3	316.22	-.20	-.6	-.20	-.6	0.00	**	-.20	2.00	46	3	42.500	0.00
47	4	193.41	.40	2.1	.40	2.1	0.00	**	.40	1.00	47	4	6.460	0.00
48	5	289.78	1.70	5.9	1.70	5.9	0.00	**	1.70	2.00	48	5	10.920	0.00
49	6	184.03	1.80	9.8	1.60	8.7	.20	**	1.80	2.00	49	6	4.330	0.00
50	3	212.76	1.20	5.6	1.20	5.6	0.00	**	1.20	2.00	50	3	28.200	0.00
51	4	298.80	.70	2.3	.70	2.3	0.00	**	.70	2.00	51	4	19.900	0.00
52	5	191.37	1.30	6.8	1.18	6.2	.12	**	1.30	1.00	52	5	3.620	0.00
53	6	304.05	2.00	6.6	1.90	6.3	.10	**	2.00	2.00	53	6	7.140	0.00
54	4	205.42	1.30	6.3	1.30	6.3	0.00	**	1.30	2.00	54	4	13.600	0.00
55	5	284.63	1.00	3.5	1.00	3.5	0.00	**	1.00	2.00	55	5	10.800	0.00
56	6	181.55	1.60	8.8	1.40	7.7	.20	**	1.60	1.00	56	6	2.140	0.00

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

MOUNT WRIGHTSON QUADRANGLE
ARIZONA
15 MINUTE SERIES (TOPOGRAPHIC)



Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography from aerial photographs by photogrammetric methods
Aerial photographs taken 1955. Field check 1958

Polyconic projection. 1927 North American datum
10,000-foot grid based on Arizona coordinate system, central zone
1000-meter Universal Transverse Mercator grid ticks,
zone 12, shown in blue

Dashed land lines indicate approximate locations
Land lines unsurveyed in T. 20 S.–R. 15 E., and parts of
T. 20 S.–R. 16 E., T. 21 S.– Rs. 13, and 15 E.,
and T. 22 S.–Rs. 13, 14, and 15 E.

Unchecked elevations are shown in brown

UTM GRID AND 1958 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

SCALE 1:62500

CONTOUR INTERVAL 80 FEET
DATUM IS MEAN SEA LEVEL

ROAD CLASSIFICATION

Heavy-duty — Light-duty
Medium-duty — Unimproved dirt
State Route

ARIZONA
QUADRANGLE LOCATION

MOUNT WRIGHTSON, ARIZ.
N3130—W11045/15

1958

AMS 3847 III—SERIES V798

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225 OR WASHINGTON, D. C. 20242
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—1970

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

MOUNT WRIGHTSON QUADRANGLE
ARIZONA
15 MINUTE SERIES (TOPOGRAPHIC)

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UTM GRID AND 1958 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:62 500

CONTOUR INTERVAL 80 FEET
DATUM IS MEAN SEA LEVEL

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