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I. P. RECEIVER NOTES, JOB NO. 104 AREA Mayo 20 Prospect

LINE 23S, HALF E, SP. 1, a = 100, BEARING E/W

SENDER STA. 7E = ELECTRODE NO. 4, DATE Sept 16, 1975

PAGE 1

HEINRICHS GEOEX

9/16/75 +V1 Cal ← 9/17/75

SEND	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	Cal
RECEIVE	7-8 E →		8-9 E →			9-10 E →				6-7
MULTIPLIER	10	1.0	10	10	1.0	10	10	1.0	1.0	1.0
PFE	+1.3	+.6	+.8	+2.0	+.9	+1.4	+1.1	+.6	+.5	-.4
CUR. (AMPS)	2	2	2	2	2	1	2	2	2	1.0
POINT NO.										
SEP. (n)										
H. F. MV	180	83.2	402	115	75.2	163	193	82.3	66.0	106.0
DRIFT	0	0	0	0	0	-.2	0	0	0	0
1.0 PFE K_n/1000	0.3	1.2	0.3	1.2	3	0.3	1.2	3	6	
0.3 PFE ρ_{CAL}	X1.	915	N.B.							
0.1 PFE PFE_c	1.2	0.5	0.7	1.9	0.8	1.4	1.0	0.5	0.4	
3.0 MV $\rho/2\pi$	52	96	115	132	216	94	222	236	379	
DRIFT MCF	44	10	12	28	7.1	29	8.6	4.1	2.0	
S. P.	+13.6		+9.9			+7.5				
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 104[illegible] AREA _____ PAGE 2

LINE 235, HALF E, SR 1, a = 1001, BEARING E/W

SENDER STA. 7E = ELECTRODE NO. 4, DATE SEPT. 1[illegible], 195[illegible]

HEINRICHS GEOEX

SEND	5-6	4-5	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3
RECEIVE	10 - 11E				→	11-12E				
MULTIPLIER	10	1.0	1.0	1.0	1.0	10	1.0	1.0	1.0	1.0
PFE	+.9	+.3	+.5	+.8	+.9	+.7	+.7	+.6	+.8	+1.5
CUR. (AMPS)	1.5	1.5	1.5							→
POINT NO.										
SEP. (n)										
H. F. MV	421	70.3	62.1	32.0	28.8	372	75.6	20.8	23.0	13.1
DRIFT	0	0	0	0	0	0	0	0	0	0
1.0 PFE $K_n/1000$	0.3	1.2	3	6	10.5	0.3	1.2	3	6	10.5
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	1.3	0.7	0.9	1.2	1.3	1.1	1.1	1.0	1.2	1.9
3.0 MV $\rho/2\pi$	161	108	238	245	386	142	116	80	176	176
DRIFT MCF	15	12	7.2	9.4	3.4	15	18	24	13	21
S. P.	~~+[illegible]~~	-4.5				-.7				
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 104 AREA

LINE 23S, HALF E, SR. 1, a = 100', BEARING E/W

SENDER STA. 7E = ELECTRODE No. 4, DATE Sept. 17, 1975

PAGE 3

HEINRICHS GEOEX

SEND	1-2	6-7	5-6	4-5	3-4	2-3	6-7	5-6	4-5	3-4
RECEIVE	→	12-13	13-13	→	→	→	13-14	E →	→	→
MULTIPLIER	1.0	10	1.0	1.0	1.0	1.0	1.0	1.0	0.1	1.0
PFE	+1.4	+1.5	+1.0	+1.3	+1.4	+2.2	+.4	+.9	+.2	+1.6
CUR. (AMPS)	1.5 →	→	→	→	→	→	→	→	→	→
POINT No.										
SEP. (n)										
H. F. MV	12.8	150	44.6	15.3	18.6	11.4	55.9	20.7	7.95	10.8
DRIFT	0	0	0	0	0	0	0	0	0	0
1.0 PFE K_n/1000	16.8	1.2	3	6	10.5	16.8	3	6	10.5	16.8
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_C	1.8	1.9	1.4	1.7	1.8	2.6	0.8	1.3	0.6	2.0
3.0 MV $\rho/2\pi$	275	230	171	117	249	245	214	159	107	232
DRIFT MCF	13	16	16	28	14	20	7.2	16	11	17
S. P.		+4.8					+4.6			
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 104 AREA

LINE 233, HALF E, SR. 1, a = 100', BEARING 15 W

SENDER STA. 7E = ELECTRODE NO. 4, DATE SEPT 16, 1975

PAGE 4

HEINRICHS GEOEX

SEND	6-7	5-6	4-5							
RECEIVE	14-15 E →									
MULTIPLIER	1.0	0.1	0.1							
PFE	+1.1	+.5								
CUR. (AMPS)	1.5 →									
POINT NO.										
SEP. (n)										
H. F. MV	19.7	8.35	3.57							
DRIFT	0	0								
1.0 PFE K_n/1000	6	10.5	16.8							
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	1.5	0.9								
3.0 MV $\rho/2\pi$	151	112	77							
DRIFT MCF	19	15								
S. P.	+6.5									
NOISE										
POT RES.										
CULT & CMTS										

TO MUTOS

I. P. RECEIVER NOTES, JOB NO. 104[illegible] AREA _____ PAGE 5

LINE 235, HALF W, SR 1, a = 100', BEARING E/W

SENDER STA. 7E = ELECTRODE NO. 4, DATE Sept. 17, 1975

HEINRICHS GEOEX

SEND	SP	SP	3-4	4-5	5-6	6-7	2-3	3-4	4-5	5-6
RECEIVE	7-6E	6-5E	5-4E	→	→	→	4-3E	→	→	→
MULTIPLIER	—	—	10	1.0	1.0	1.0	10	10	1.0	1.0
PFE	—	—	+1.6	+1.2	+1.5	+1.5	+1.0	+1.8	+1.6	+1.9
CUR. (AMPS)			1.5	→	→	→	→	→	→	→
POINT NO.										
SEP. (n)										
H. F. MV	—	—	372	69.8	66.9	57.7	353	103	28.0	29.5
DRIFT	—	—	0	0	0	0	0	0	0	0
1.0 PFE $K_n/1000$			0.3	1.2	3	6	0.3	1.2	3	6
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c			1.0	0.6	0.9	0.9	1.4	2.2	1.0	1.3
3.0 MV $\rho/2\pi$			142	107	256	442	135	158	107	226
DRIFT MCF			13	11	6.7	3.9	20	27	18	11
S. P.	+7.1	+2.0	+15.1				+.9			
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 104 AREA

LINE 235, HALF W, SP. 1, a = 100', BEARING E/W

SENDER STA. 7E = ELECTRODE NO. 4, DATE SEPT 17, 1975

PAGE 6

HEINRICHS GEOEX

SEND	6-7	1-2	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4
RECEIVE	→	3-2E					→	2-1E		
MULTIPLIER	1.0	10	10	1.0	1.0	1.0	1.0	1.0	1.0	1.0
PFE	+1.9	+1.7	+3.1	+1.6	+1.0	+1.0	~~+3.0~~	+1.9	+1.4	+1.2
CUR. (AMPS)	1.5						+1.7	1	1	1.5
POINT NO.										
SEP. (n)								56.8		
H. F. MV	27.5	525	102	47.3	16.5	19.0	18.9	~~0.E~~ 0	16.6	15.3
DRIFT	0	0	0	0	0	0	0	0	0	0
1.0 PFE K_n/1000	10.5	0.3	1.2	3	6	10.5	16.8	1.2	3	6
0.3 PFE ρ_{CAL}	1.3	1.1	2.5	1.0	1.4	1.4	1.1	1.3	1.7	1.6
0.1 PFE PFE_c										
3.0 MV $\rho/2\pi$	369	201	156	181	126	255	405	131	95	117
DRIFT MCF	6.8	10	31	11	21	11	5.2	19	34	26
S. P.		+11.5						-1.0		
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 164 AREA

LINE 23S, HALF W, SR. 1, a = 100', BEARING E/W

SENDER STA. 7E = ELECTRODE No. 4, DATE SEPT. 17, 1975

PAGE 7

HEINRICHS GEOEX

SEND	4-5	5-6	1-2	2-3	3-4	4-5	1-2	2-3	3-4	CM1
RECEIVE	→	→	1-0 E	→	→	→	0-1N	→	→	1-2
MULTIPLIER	0.1	0.1	1.0	1.0	0.1	0.1	1.0	0.1	0.1	1.0
PFE	+.1	+.3	+.9	+1.5	+.4	+.5	+1.4	+.8	+.7	+.3
CUR. (AMPS)	1.5	1.5	1	1	1	1	1	1.5	1.5	1.0
POINT No.										IGNORE
SEP. (n)										
H. F. MV	5.98	7.43	36.2	13.1	9.42	3.99	14.4	8.57	6.64	99.8
DRIFT	0	0	0	0	0	0	0	0	0	0
1.0 PFE K_n/1000	10.5	16.8	3	6	10.5	16.8	6	10.5	16.8	
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	0.5	0.8	1.4	1.9	0.9	0.9	1.9	1.2	1.1	
3.0 MV $\rho/2\pi$	80	159	208	151	189	128	165	115	142	
DRIFT MCF	12	9.6	13	24	9.1	13	22	20	15	
S. P.			+2.0							
NOISE										
POT RES.										
CULT & CMTS										

I. P. SENDER NOTES

JOB No. 1040 AREA BINGHAMPTON

LINE 23, HALF EAST, SP. 1, DATE 9/16/75

PAGE 1

HEINRICHS GEOEX

SEND	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	5-6
RECEIVE										
RANGE	X10+200	X10+200	X10+200	X10+200	X10+200	X10+100	X10+200	X10+200	X10+200	X10+100
VOLTAGE	120	130	100	120	130	50	100	120	130	50
CURRENT	2	2	2	2	2	1	2	2	2	1
SEND	5-6	4-5	3-4	2-3	1-2	CA 6-7	6-7	5-6	4-5	3-4
RECEIVE										
RANGE	X10+150	X10+150	X10+150	X10+150	X10+150	X10+100	X10+150	X10+150	X10+150	X10+150
VOLTAGE	100	80	130	200	240	60	~~70~~ 100	90	80	130
CURRENT	1.5	1.5	1.5	1.5	1.5	1	1.5	1.5	1.5	1.5

FREQUENCIES

SENDER No.

OPERATOR TED MERIKLE

RECEIVER No.

OPERATOR BILL HURLEY

COMMENTS: 5-6 REPEAT 9/17/75

I. P. SENDER NOTES

JOB No. 1040 AREA

LINE 23, HALF EAST, SP. 1, DATE 9/17/75

PAGE 2

HEINRICHS GEOEX

SEND	2-3	1-2	6-7	5-6	4-5	3-4	2-3	6-7	5-6	4-5
RECEIVE										
RANGE	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150
VOLTAGE	200	250	100	90	80	130	200	100	90	80
CURRENT	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
SEND	3-4	6-7	5-6	4-5						
RECEIVE										
RANGE	X10+150	X10+150	X10+150	X10+150						
VOLTAGE	130	100	100	80						
CURRENT	1.5	1.5	1.5	1.5						

FREQUENCIES

SENDER No.

OPERATOR TED MERIKLE

RECEIVER No.

OPERATOR BILL HURLEY

COMMENTS:

I. P. SENDER NOTES

JOB No. 1040 AREA

LINE 23, HALF WEST, SP. 1, DATE 9/12/75

PAGE 1

HEINRICHS GEOEX

SEND	3-4	4-5	5-6	6-7	2-3	3-4	4-5	5-6	6-7	CA 1-2
RECEIVE										
RANGE	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150	X10+100
VOLTAGE	130	80	90	100	200	130	80	100	100	170
CURRENT	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1
SEND	1-2	2-3	3-4	4-5	5-6	6-7	~~1-2~~	1-2	2-3	3-4
RECEIVE										
RANGE	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150	~~X10+150~~	X10+100	X10+100	X10+150
VOLTAGE	250	210	130	80	90	100	~~250~~	170	140	130
CURRENT	1.5	1.5	1.5	1.5	1.5	1.5	~~1.5~~	1	1	1.5

FREQUENCIES

SENDER No.

OPERATOR TED MERIKLE

RECEIVER No.

OPERATOR BILL HURLEY

COMMENTS:

I. P. SENDER NOTES

JOB No. 1040 AREA

LINE 23, HALF WEST, SP. 1, DATE 9/17/75

PAGE 2

HEINRICHS GEOEX

SEND	4-5	5-6	1-2	2-3	3-4	4-5	1-2	2-3	3-4	
RECEIVE										
RANGE	X10+150	X10+150	X10+100	X10+100	X10+100	X10+100	X10+100	X10+150	X10+150	
VOLTAGE	80	100	170	140	90	50	170	210	140	
CURRENT	1.5	1.5	1	1	1	1	1	1.5	1.5	
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES

SENDER No.

OPERATOR TED MERIKLE

RECEIVER No.

OPERATOR BILL HURLEY

COMMENTS:

I. P. RECEIVER NOTES, JOB NO. 1044, AREA Bing Hampton

LINE 16D, HALF E, SP. 1, a = 200', BEARING E/W

SENDER STA. 2E = ELECTRODE NO. 4, DATE Sept. 15, 1975

PAGE 1

HEINRICHS GEOEX

SEND	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	101
RECEIVE	2-4E →		4-6E →			6-8E →				6-7
MULTIPLIER	10	1.0	10	1.0	1.0	10	1.0	1.0	0.1	1.0
PFE	+2.2	+1.8	+1.5	+1.9	+2.8	+1.3	+1.0	+3.0	+2.4	+.2
CUR. (AMPS)										
POINT NO.										
SEP. (n)										
H. F. MV	235	99.3	201	55.6	34.7	237	26.0	11.4	8.35	98.9
DRIFT	+.2	0	+.2	0	0	0	0	0	+.2	0
1.0 PFE $K_n/1000$										
0.3 PFE P_{CAL}										
0.1 PFE PFE_C										
3.0 MV $P/2\pi$										
DRIFT MCF										
S. P.	+14.4		-8.8			-35.6				
NOISE										
POT RES.										
CULT & CMTS										

Calculations on separate sheet

Lots of noise

I. P. RECEIVER NOTES, JOB NO. 1040, AREA BINGHAMPTON

LINE 10N, HALF E, SR. 1, a = 200, BEARING E/W

SENDER STA. 2E = ELECTRODE NO. 4, DATE SEPT 15, 1975

PAGE 2

HEINRICHS GEOEX

SEND	5-6	4-5	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3
RECEIVE	8-10	E	→	→	→	10-12 E				
MULTIPLIER	10	1.0	1.0	0.1	0.1	10	10	1.0	1.0	0.1
PFE	+3.1	+2.5	+2.9	+2.7	+3.9	+3.0	+3.6	+2.2	+3.3	+2.7
CUR. (AMPS)										
POINT NO.										
SEP. (n)										
H. F. MV	248	82.2	15.0	5.74	4.54	306	134	65.1	11.1	6.19
DRIFT	0	0	0	0	0	0	0	0	0	+.2
1.0 PFE $K_n/1000$										
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c										
3.0 MV $\rho/2\pi$										
DRIFT MCF										
S. P.	+2.8					+38.6				
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 1040, AREA Binghamton

LINE 10N, HALF E, SP. 1, a = 200', BEARING E/W

SENDER STA. 2E = ELECTRODE NO. 4, DATE Sept 15, 1975

PAGE 3

HEINRICHS GEOEX

SEND	1-2	6-7	5-6	4-5	3-4	2-3	6-7	5-6	4-5	3-4
RECEIVE	→	12-14 E		→			14-16 E		→	
MULTIPLIER	0.1	10	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1
PFE	+3.6	+3.6	+2.3	+2.0	+.8	+3.6	+2.9	+2.3	+1.9	+.9
CUR. (AMPS)										
POINT NO.										
SEP. (n)										
H. F. MV	5.23	137.	91.9	61.2	23.8	11.5	17.9	16.7	13.9	6.21
DRIFT	0	0	0	0	0	0	0	0	0	0
1.0 PFE $K_n/1000$										
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_C										
3.0 MV $\rho/2\pi$										
DRIFT MCF										
S. P.		+14.5					-2.0			
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 1040, AREA Big Hampton

LINE 10N, HALF E, SP. 1, a = 200', BEARING 15 W

SENDER STA. 2E = ELECTRODE NO. 4, DATE Sept. 15, 1975

PAGE 4

HEINRICHS GEOEX

SEND		6-7	5-6	4-5							
RECEIVE		16-18E	→								
MULTIPLIER		1.0	1.0	1.0							
PFE		+3.4	+2.8	+2.7							
CUR. (AMPS)											
POINT NO.											
SEP. (n)											
H. F. MV		13.1	14.0	13.0							
DRIFT		0	0	0							
1.0 PFE	$K_n/1000$										
0.3 PFE	ρ_{CAL}										
0.1 PFE	PFE_c										
3.0 MV	$\rho/2\pi$										
DRIFT	MCF										
S. P.		+5.1									
NOISE											
POT RES.											
CULT & CMTS											

I. P. RECEIVER NOTES, JOB NO. 104 AREA Binghamton

LINE 104, HALF W, SP. 1, a = 200', BEARING E/W

SENDER STA. 2E = ELECTRODE NO. 4, DATE Sept. 15, 1975

PAGE 5

HEINRICHS GEOEX

SEND	SP	SP	3-4	4-5	5-6	6-7	2-3	3-4	4-5	5-6
RECEIVE	2E-0	0-2W	2-4W	→	→	→	4-6W	→	→	→
MULTIPLIER	—	—	1.0	1.0	1.0	0.1	1.0	1.0	1.0	1.0
PFE	—	—	+3.3	+2.7	+3.1	+2.6	+2.9	+1.6	+1.7	+2.3
CUR. (AMPS)										
POINT NO.										
SEP. (n)										
H. F. MV	—	—	198	94.2	23.7	6.03	183	54.1	38.2	15.2
DRIFT	—	—	+.2	0	0	0	0	0	0	0
1.0 PFE K_n/1000										
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c										
3.0 MV $\rho/2\pi$										
DRIFT MCF										
S. P.	+7.3	+5.8	+5.9				+13.4			
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 1040, AREA Ring Hermoton

LINE 10N, HALF W, SP. 1, a = 200', BEARING E/W

SENDER STA. 2E = ELECTRODE NO. 4, DATE Sept. 15, 1957

PAGE 6

HEINRICHS GEOEX

SEND	6-7	1-2	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4
RECEIVE	→	6-8 W	→	→	→	→	→	8-10 W	→	→
MULTIPLIER	0.1	10	1.0	1.0	1.0	0.1	0.1	10	1.0	1.0
PFE	+1.7	+1.8	+1.9	+1.9	+1.8	+1.6	+1.5	+2.3	+1.9	+1.7
CUR. (AMPS)										
POINT NO.										
SEP. (n)										
H. F. MV	4.27	30.1	51.6	23.3	20.0	8.65	2.08	178	52.9	30.5
DRIFT	0	0	0	0	0	0	0	0	0	0
1.0 PFE $K_n/1000$										
0.3 PFE P_{CAL}										
0.1 PFE PFE_C										
3.0 MV $P/2\pi$										
DRIFT MCF										
S. P.		+8.2						+4.0		
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 1040, AREA Binghamton

LINE 10N, HALF N, SR. 1, a = 200', BEARING E/W

SENDER STA. 2E = ELECTRODE NO. 4, DATE Sept. 16, 1925

PAGE 7

HEINRICHS GEOEX

SEND	4-5	5-6	1-2	2-3	3-4	4-5	1-2	3-3	3-4	Cal
RECEIVE	→	→	10-12 W	→	→	→	12-14 W	→	→	1-2
MULTIPLIER	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	1.0
PFE	+1.3	+2.0	+1.7	+2.0	+.9	+1.5	+2.1	+2.7	+.8	+.1
CUR. (AMPS)										
POINT NO.										
SEP. (n)										
H. F. MV	30.6	14.3	83.0	83.0	21.7	24.3	25.9	11.9	8.31	99.3
DRIFT	-.2	0	0	0	0	0	0	0	0	0
1.0 PFE $K_n/1000$										
0.3 PFE P_{CAL}										
0.1 PFE PFE_c										
3.0 MV $P/2\pi$										
DRIFT MCF										
S. P.			-1.6				+4.8			
NOISE										
POT RES.										
CULT & CMTS										

I. P. SENDER NOTES

JOB No. 1040 AREA BINGHAMPTON

LINE 10, HALF EAST, SP. 1, DATE 9/15/75

PAGE 1

HEINRICHS GEOEX

SEND	6-7	5-6	4-5	3-4	6-7	5-6	4-5	6-7	5-6	
RECEIVE										
RANGE	X10+100	X10+100	X10+100	X10+100	X10+150	X10+150	X10+150	X10+150	X10+150	
VOLTAGE	200	160	80	60	300	240	130	300	240	
CURRENT	1	1	1	1	1.5	1.5	1.5	1.5	1.5	
SEND	4-5	3-4	2-3	6-7	5-6	4-5	~~3-4~~	~~3-4~~	3-4	2-3
RECEIVE										
RANGE	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150	~~X10+150~~	~~X10+100~~	X10+100	X10+100
VOLTAGE	140	110	130	300	240	140	~~110~~	~~70~~	90	90
CURRENT	1.5	1.5	1.5	1.5	1.5	1.5	~~1.5~~	~~1~~	1	1

FREQUENCIES

SENDER No.

OPERATOR TED MERIKLE

RECEIVER No.

OPERATOR BILL HURLEY

COMMENTS:

I. P. SENDER NOTES

JOB NO. 1040 AREA BINGHAMPTON

LINE 10, HALF EAST, SP. 1, DATE 9/15/75

PAGE 2

HEINRICHS GEOEX

SEND	1-2	5-6	4-5	3-4	~~2-3~~	2-3	1-2	CA 6-7	4-5	3-4
RECEIVE										
RANGE	X10+100	X10+100	X10+100	X10+100	~~X10+100~~	X10+75	X10+75	X10+100	X10+100	X10+100
VOLTAGE	100	170	90	90	~~90~~	70	80	210	90	80
CURRENT	1	1	1	1	~~1~~	.75	.75	1	1	1
SEND	2-3	1-2	3-4	2-3	1-2	2-3	1-2			
RECEIVE										
RANGE	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100			
VOLTAGE	90	100	80	90	100	90	100			
CURRENT	1	1	1	1	1	1	1			

FREQUENCIES

SENDER NO.

OPERATOR TED MERIKLE

RECEIVER NO.

OPERATOR BILL HURLEY

COMMENTS:

I. P. SENDER NOTES

JOB No. 1040 AREA BINGHAMPTON

LINE 10, HALF WEST, SP. 1, DATE 9/15/75

PAGE 1

HEINRICHS GEOEX

SEND	3-4	4-5	5-6	6-7	2-3	3-4	4-5	5-6	6-7	F-A 1-2
RECEIVE										
RANGE	X10+100	X10+100	X10+75	X10+75	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100
VOLTAGE	90	100	140	170	90	90	100	180	220	100
CURRENT	1	1	.75	.75	1	1	1	1	1	1
SEND	1-2	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5
RECEIVE										
RANGE	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100
VOLTAGE	100	90	90	100	180	220	120	110	100	110
CURRENT	1	1	1	1	1	1	1	1	1	1

FREQUENCIES

SENDER No.

OPERATOR TED MERIKLE

RECEIVER No.

OPERATOR BILL HURLEY

COMMENTS:

9 16

I. P. SENDER NOTES

JOB No. 1040 AREA BINGHAMPTON

LINE 10, HALF WEST, SP. 1, DATE 9/16/75

PAGE 2

HEINRICHS GEOEX

SEND	5-6	~~6-7~~	1-2	2-3	3-4	4-5	1-2	2-3	3-4	
RECEIVE										
RANGE	X10+100	~~X10+100~~	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	
VOLTAGE	180		120	110	100	110	120	110	100	
CURRENT	1	~~1~~	1	1	1	1	1	1	1	
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES

SENDER No.

OPERATOR TED MERIKLE

RECEIVER No.

OPERATOR BILL HURLEY

COMMENTS:

E½ Line 10N Job #1040 a = 200'

I

2E – 4E		4 – 6E			6 – 8E				CAL (–)
1	1	1	1	1	1	1	1	1	
2.2	1.8	1.5	1.9	2.8	1.3	1.0	3.0	2.4	0.2
0.6	2.4	0.6	2.4	6	0.6	2.4	6	12	
235	99.3	201	55.6	34.7	232	26.0	11.4	8.35	98.9
0.2	0	0.2	0	0	0	0	0	0.2	0
1.9	1.6	1.2	1.7	2.6	1.1	0.8	2.8	2.1	
142	240	122	135	210	143	63	69	101	
13	6.7	9.9	13	12	7.7	13	41	21	

8 – 10E					10 – 12E						12 – 14E				
1	1	1	.75	.75	1.5	1.5	1.5	1	1	1	1.5	1.5	1.5	1.5	1.5
3.1	2.5	2.9	2.7	3.9	3.0	3.6	2.2	3.3	2.7	3.6	3.6	2.3	2.0	0.8	3.6
0.6	2.4	6	12	21	0.6	2.4	6	12	21	33.6	2.4	6	12	21	33.6
248	82.2	15.0	5.74	4.58	306	134	69.1	11.1	6.19	5.23	137	91.9	61.2	23.8	11.5
0	0	0	0	0	0	0	0	0	0.2	0	0	0	0	0	0
2.9	2.3	2.7	2.5	3.7	2.8	3.4	2.0	3.1	2.4	3.4	3.4	2.1	1.8	0.6	3.4
150	199	91	93	129	124	216	279	134	131	177	221	371	494	336	260
19	12	30	27	29	23	16	7.2	23	18	19	15	5.7	3.6	1.8	13

14 – 16E			
1.0	1	1	1
2.8	2.3	1.9	0.9
6	12	21	33.6
17.9	16.7	13.9	6.21
0	0	0	0
2.6	2.1	1.7	0.7
108	202	295	211
24	10	5.8	3.3

16 – 18E		
1.5	1.5	1.5
3.4	2.8	2.7
12	21	33.6
13.1	14.0	13.0
0	0	0
3.2	2.6	2.5
106	198	294
30	13	8.5

W½

2W – 4W				4 – 6W					6 – 8W					
1	1	0.75	0.75	1	1	1	1	1	1	1	1	1	1	1.5
3.3	2.7	3.1	2.6	2.9	1.6	1.7	2.3	1.7	1.8	1.9	0.9	1.3	1.1	33.6
0.6	2.4	6	12	0.6	2.4	6	12	21	0.6	2.4	6	12	21	2.65
198	94.2	23.7	6.03	183	54.1	38.2	15.2	4.27	301	51.6	23.3	20.0	8.65	
0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.1	2.6	3.0	2.5	2.8	1.5	1.6	2.2	1.6	1.7	1.8	0.8	1.2	1.0	1.4
120	228	191	97	111	131	231	184	90	182	125	141	242	183	90
26	11	16	26	25	11	6.9	12	18	9.3	14	5.7	5.0	5.5	16

8 – 10W					10 – 12W				12 – 14W			CAL 1.2
1	1	1	1	1	1	1	1	1	1	1	1	
2.3	1.9	0.7	1.3	2.0	1.7	2.0	0.9	1.5	2.1	2.7	0.8	0.1
2.4	6	12	21	33.6	6	12	21	33.6	12	21	33.6	
178	52.9	30.5	30.6	19.3	83.0	33.0	21.7	24.3	25.9	11.9	8.31	99.3
0	0	0	-0.2	0	0	0	0	0	0	0	0	0
2.2	1.8	0.6	1.3	1.9	1.6	1.9	0.8	1.4	2.0	2.6	0.7	
431	320	369	648	485	503	400	460	824	314	252	282	
51	51.6	1.6	2.0	3.9	3.2	4.8	1.7	1.7	6.4	10	2.5	

I. P. RECEIVER NOTES, JOB NO. 1044, AREA Bing Yonpton

LINE 5N, HALF 5, SR. 1, a = 100', BEARING E/W

SENDER STA. 00 [illegible] ELECTRODE NO. 4, DATE Aug. 21, 1975

PAGE 1

HEINRICHS GEOEX

SEND	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	Avl
RECEIVE	0-1E	→	1-2E	→	→	2-3E	→	→	→	6-7
MULTIPLIER	10	1.0	10	1.0	1.0	10	10	1.0	1.0	1.0
PFE	~~+1.8~~	+1.9	+1.9	+2.6	+2.2	+1.2	+1.8	+2.9	+2.3	-.1
CUR. (AMPS)	+ .6	1	—	—	—	—	—	—	→	0.50
POINT NO.	1									use -.3
SEP. (n)	292									
H. F. MV	~~289~~	97.4	32.2	100.9	43.3	58.4	180	72.6	35.9	48.9
DRIFT	-.2	0	+.3	0	0	0	0	0	0	0
1.0 PFE K_n/1000	0.3	1.2	.3	1.2	3	.3	1.2	3	6	
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	1.0	2.2	2.0	2.9	2.5	1.5	2.1	3.2	2.6	
3.0 MV $\rho/2\pi$	90	119	99	124	133	179	221	223	220	
DRIFT MCF	11	18	20	23	19	8.4	9.5	14	12	
S. P.	+.6		+1.8			-3.6				
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 1000, AREA Binghamptoin

LINE 5N, HALF E, SR. 1, a = 100', BEARING E/W

SENDER STA. 00EN = ELECTRODE NO. 4, DATE Aug 21, 1975

PAGE 2

HEINRICHS GEOEX

SEND	5-6	4-5	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3
RECEIVE	3-4E					4-5E				
MULTIPLIER	10	10	10	1.0	1.0	10	1.0	1.0	1.0	1.0
PFE	+1.0	+1.2	+1.8	+3.0	+2.3	+0.9	+1.2	+1.[illegible]	+1.5	+2.5
CUR. (AMPS)	.75	1	1	1	1	.5	.5	1	1	1
POINT NO.										
SEP. (n)										
H. F. MV	370	140	59.5	28.7	16.8	313	67.3	69.6	35.1	20.0
DRIFT	0	0	0	0	0	0	0	0	0	0
1.0 PFE K_n/1000	.3	1.2	3	6	10.5	.3	1.2	3	6	10.5
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_C	1.3	1.5	2.1	3.2	2.6	1.2	1.5	1.4	1.8	2.8
3.0 MV $\rho/2\pi$	151	172	182	176	180	192	165	213	215	215
DRIFT MCF	8.6	8.7	12	19	14	6.3	9.1	6.6	8.4	13
S. P.	-9.1					-.3				
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 1640 AREA Binghamton

LINE 5N, HALF E, SP. 1, a = 100', BEARING E/W

SENDER STA. 00 EN = ELECTRODE NO. 4, DATE AUG 21, 1975

PAGE 3

HEINRICHS GEOEX

SEND	1-2	6-7	5-6	4-5	3-4	2-3	0-7	5-6	4-5	3-4
RECEIVE	→	5-6	E →				6-7E	→		
MULTIPLIER	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
PFE	+2.0	+1.0	+.9	+.7	+1.1	+2.4	+.7	+.7	+.5	+.9
CUR. (AMPS)	1	.5	.5	1	1	1	.5	.5	1	1
POINT NO.										
SEP. (n)										
H. F. MV	13.4	6.6	24.4	33.3	19.0	12.3	30.3	14.6	23.3	14.4
DRIFT	0	0	0	0	0	0	0	0	0	0
1.0 PFE K_n/1000	16.8	1.2	3	6	10.5	16.8	3	6	10.5	16.8
0.3 PFE P_{CAL}										
0.1 PFE PFE_c	2.3	1.3	1.2	1.0	1.4	2.7	1.0	1.0	0.8	1.2
3.0 MV $P/2\pi$	230	162	150	204	204	211	186	179	250	217
DRIFT MCF	10	8.0	8.0	4.9	6.9	13	5.4	5.6	3.2	4.9
S. P.		-.1					-4.2			
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 1040 AREA Boughlamp Tow

LINE 5N, HALF E, SR. 1, a = 100, BEARING E/W

SENDER STA. 00E-W = ELECTRODE No. 4, DATE Aug 21, 1975

PAGE 4

HEINRICHS GEOEX

SEND		6.7	5.6	4.5							
RECEIVE		7.8E	→	→							
MULTIPLIER		1.0	0.1	1.0							
PFE		+.8	+.6	+.5							
CUR. (AMPS)		.5	.5	1							
POINT No.											
SEP. (n)											
H. F. MV		17.6	9.78	16.7							
DRIFT		0	0	+.2							
1.0 PFE	K_n/1000	6	10.5	16.8							
0.3 PFE	ρ_{CAL}										
0.1 PFE	PFE_c	1.1	0.9	0.7							
3.0 MV	$\rho/2\pi$	2.16	2.10	2.87							
DRIFT	MCF	5.1	4.3	2.4							
S. P.		+1.1									
NOISE											
POT RES.											
CULT & CMTS											

I. P. RECEIVER NOTES, JOB No. 1040, AREA Binghamton

LINE 5N, HALF W, SP. 1, a = 1001, BEARING E/W

SENDER STA. 00EN = ELECTRODE No. 4, DATE AUG 21, 1975

PAGE 5

HEINRICHS GEOEX

SEND	SP	S.P.	3-4	4-5	5-6	6-7	2-3	3-4	4-5	5-6
RECEIVE	0-1	1-2	2-3	→	→	→	3-4	→	→	→
MULTIPLIER	—	—	10	10	1.0	1.0	10	10	1.0	1.0
PFE	—	—	+1.3	+1.7	+2.2	+2.6	+1.5	+1.1	+1.5	+1.5
CUR. (AMPS)			1	1	.75	.5	1	1	1	.75
POINT NO.										
SEP. (n)										
H. F. MV	—	—	258	100	34.0	16.5	396	101	56.3	22.5
DRIFT	—	—	0	0	0	0	0	0	0	0
1.0 PFE $K_n/1000$			.3	1.2	3	6	.3	1.2	3	6
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_C			1.6	2.0	2.5	2.9	0.8	1.4	1.8	1.8
3.0 MV $\rho/2\pi$			77	123	139	202	121	124	173	184
DRIFT MCF			21	16	18	14	6.6	11	10	9.8
S. P.	-12.1	+17.5	+5.8				-8.7			
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 1040, AREA Binghamton

LINE 5N, HALF W, SP. 1, a = 100', BEARING E/W

SENDER STA. 00EW = ELECTRODE NO. 4, DATE AUG 21, 1975

PAGE 6

HEINRICHS GEOEX

SEND	6-7	1-2	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4
RECEIVE	→	4-5	→	→	→	→	→	5-6	→	→
MULTIPLIER	1.0	10	1.0	1.0	1.0	0.8	0.8	1.0	1.0	1.0
PFE	+2.0	+1.4	+1.4	+1.7	+1.8	+2.0	+1.9	+1.7	+1.5	+1.6
CUR. (AMPS)	.5	1	1	1	1	.5	.5	1	1	1
POINT NO.										
SEP. (n)						6.38				
H. F. MV	12.3	258	85.8	32.5	21.3	~~0.56~~	5.78	55.6	25.3	11.8
DRIFT	0	0	0	0	0	0	0	0	0	0
1.0 PFE K_n/1000	10.5	.3	1.2	3	6	10.5	16.8	1.2	3	6
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	2.3	0.7	1.7	2.0	2.1	2.3	2.2	1.0	1.8	1.9
3.0 MV $\rho/2\pi$	264	79	105	100	131	137	198	68	78	72
DRIFT MCF	8.7	8.8	16	20	16	17	11	15	23	26
S. P.		+2.9						+4.9		
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 1040 AREA BINGHAMPTON

LINE 5N, HALF W, SP. 1, a = 100', BEARING E/W

SENDER STA. 60EW = ELECTRODE NO. 4, DATE AUG 20, 1975

PAGE 7

HEINRICHS GEOEX

SEND	4-5	5-6	1-2	2-3	3-4	4-5	1-2	2-3	3-4	Nul
RECEIVE	→	→	6-7W →	→	→	→	7-8 →	→	→	1-2
MULTIPLIER	0.1	0.1	1.0	1.0	1.0	1.0	1.0	1.0	0.1	1.0
PFE	+1.3	+1.6	+1.6	+1.6	+1.6	+1.4	+.9	+1.9	+1.5	-.5
CUR. (AMPS)	1	.5	.5	1	1	1	1	1	1	1.0
POINT NO.										use -.3
SEP. (n)										
H. F. MV	8.84	2.86	24.1	49.5	13.4	11.0	18.0	10.5	6.28	97.9
DRIFT	0	+.2	0	0	0	0	0	0	0	0
1.0 PFE K_n/1000	10.5	16.8	3	6	10.5	16.8	6	10.5	16.8	
0.3 PFE P_{CAL}										
0.1 PFE PFE_c	1.6	1.8	0.9	0.9	1.9	1.7	1.2	2.2	1.8	
3.0 MV $\rho/2\pi$	95	98	148	291	144	189	110	113	108	
DRIFT MCF	17	18	61	3.1	13	9.0	11	20	17	
S. P.			-3.7				+1.2			
NOISE										
POT RES.										
CULT & CMTS										

I.P. SENDER NOTES

JOB No. 1040 AREA BIG HAMPTON

LINE 5N, HALF EAST, SP. _____, DATE 8/21/75

PAGE 1

HEINRICHS GEOEX

SEND	2-3	1-2	~~3-4~~	3-4	2-3	1-2	4-5	3-4	2-3	1-2
RECEIVE										
RANGE	X10+100	X10+100	~~X10+75~~	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100
VOLTAGE	175	75	~~300~~	210	170	75	240	210	170	80
CURRENT	1	1	~~.75~~	1	1	1	1	1	1	1
SEND	5-6	4-5	3-4	2-3	1-2	C-A 6-7	6-7	5-6	4-5	3-4
RECEIVE										
RANGE	X10+75	X10+100	X10+100	X10+100	X10+100	X10+50	X10+50	X10+50	X10+100	X10+100
VOLTAGE	340	240	210	170	75	280	300	230	240	210
CURRENT	.75	1	1	1	1	.50	.50	.50	1	1

FREQUENCIES

SENDER No.

OPERATOR TED MERIKLE

RECEIVER No.

OPERATOR BILL HURLEY

COMMENTS:

I. P. SENDER NOTES

JOB No. 1040 AREA BIG HAMPTON

LINE 5N, HALF EAST, SP. _____, DATE 8/21/75

PAGE 2

HEINRICHS GEOEX

SEND	2-3	1-2	6-7	5-6	4-5	3-4	2-3	6-7	5-6	4-5
RECEIVE										
RANGE	X10+100	X10+100	X10+50	X10+50	X10+100	X10+100	X10+100	X10+50	X10+50	X10+100
VOLTAGE	170	75	300	240	240	210	170	310	240	240
CURRENT	1	1	.50	.50	1	1	1	.50	.50	1
SEND	3-4	6-7	5-6	4-5						
RECEIVE										
RANGE	X10+100	X10+50	X10+50	X10+100						
VOLTAGE	210	310	240	240						
CURRENT	1	.50	.50	1						

FREQUENCIES

SENDER No.

OPERATOR TED MERIKLE

RECEIVER No.

OPERATOR BILL HURLEY

COMMENTS:

I. P. SENDER NOTES

JOB No. 1040 AREA BIG HAMPTON

LINE 5N, HALF WEST, SP. _____, DATE 8/21/75

PAGE 1

HEINRICHS GEOEX

SEND	3-4	4-5	5-6	6-7	2-3	3-4	4-5	5-6	6-7	C.A. 1-2
RECEIVE										
RANGE	X10+100	X10+100	X10+75	X10+50	X10+100	X10+100	X10+100	X10+75	X10+50	X10+100
VOLTAGE	210	240	370	320	160	210	240	370	320	75
CURRENT	1	1	.75	.50	1	1	1	.75	.50	1
SEND	1-2	2-3	3-4	4-5	~~5-6~~	5-6	6-7	1-2	2-3	3-4
RECEIVE										
RANGE	X10+100	X10+100	X10+100	X10+100	~~X10+75~~	X10+50	X10+50	X10+100	X10+100	X10+100
VOLTAGE	75	170	210	240	~~370~~	250	320	75	160	210
CURRENT	1	1	1	1	~~.75~~	.50	.50	1	1	1

FREQUENCIES

SENDER No.

OPERATOR TED MERIKLE

RECEIVER No.

OPERATOR BILL HURLEY

COMMENTS:

I. P. SENDER NOTES

JOB NO. _____ AREA BIG HAMPTON

LINE 5N, HALF WEST, SP. _____, DATE 8/21

PAGE 2

HEINRICHS GEOEX

SEND	4-5	5-6	1-2	2-3	3-4	4-5	1-2	2-3	3-4	
RECEIVE										
RANGE	X10+100	X10+50	X10+50	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	
VOLTAGE	250	250	50	160	210	250	75	160	210	
CURRENT	1	.50	.50	1	1	1	1	1	1	
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES

SENDER NO.

OPERATOR TED MERIKLE

RECEIVER NO.

OPERATOR BILL HURLEY

COMMENTS:

I. P. RECEIVER NOTES, JOB No. 1040, AREA BINGHAMPTON

LINE 7N, HALF E, SP. 1, a = 100', BEARING E/W 78°

SENDER STA. 00EW = ELECTRODE No. 4, DATE AUG. 22 1975

PAGE 1

HEINRICHS GEOEX

SEND	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	00
RECEIVE	0-1E	→	1-2E	→	→	2-3E	→	→	→	6-7
MULTIPLIER	10	10	10	1.0	1.0	10	1.0	1.0	1.0	1.0
PFE	+3.1	+1.7	+1.1	+4.6	+3.3	-.8	+2.1	+4.6	+3.1	-.2
CUR. (AMPS)	1	→	→	→	→	→	→	→	→	1.0
POINT No.										use
SEP. (n)										-.3
H. F. MV	204	187	153	75.0	76.3	578	33.2	26.0	33.2	97.1
DRIFT	0	+.2	0	0	0	0	0	0	0	0
1.0 PFE K_n/1000	0.3	1.2	0.3	1.2	3	0.3	1.2	3	6	
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	3.4	1.9	0.4	4.9	3.6	-0.5	2.4	4.9	3.4	
3.0 MV $\rho/2\pi$	78	231	47	92	235	178	41	80	205	
DRIFT MCF	43	8.2	8.5	53	15	-2.8	59	61	17	
S. P.	+3.0		-4.2			-.7				
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 1040, AREA King Hammond

LINE 7N, HALF E, SR. 1, a = 100', BEARING E/W

SENDER STA. 60EW = ELECTRODE NO. 4, DATE AUG 22, 1975

PAGE 2

HEINRICHS GEOEX

SEND	5-6	4-5	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3
RECEIVE	3-4 F	→	→	→	→	4.5 E	→	→	→	→
MULTIPLIER	10	10	1.0	1.0	1.0	10	1.0	1.0	0.1	0.1
PFE	+.6	+.6	+2.1	+4.2	+2.7	+1.0	+.7	+.5	+2.0	+3.9
CUR. (AMPS)	0.5	1	→	→	→	→	0.5	1	1	1
POINT NO.										
SEP. (n)										
H. F. MV	192	118	13.5	13.6	20.5	337	59.5	61.0	8.82	9.80
DRIFT	0	0	0	0	0	0	0	0	0	0
1.0 PFE $K_n/1000$	0.3	1.2	3	6	10.5	0.3	1.2	3	6	10.5
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	0.9	0.9	2.4	4.5	3.0	1.3	1.0	0.8	2.3	4.2
3.0 MV $\rho/2\pi$	118	146	42	84	221	104	147	188	54	106
DRIFT MCF	7.6	6.2	58	54	14	13	6.8	4.3	42	40
S. P.	+2.4					+6.5				
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 1040, AREA Bingo Hump Tom

LINE 7N, HALF E, SP. 1, a = 100, BEARING E/W

SENDER STA. 00EW = ELECTRODE NO. 4, DATE AUG 22, 1975

PAGE 3

HEINRICHS GEOEX

SEND	1-2	6-7	5-6	4-5	3-4	2-3	6-7	5-6	4-5	3-4
RECEIVE	→	5-6 E	→	→	→	→	6-7E	→	→	→
MULTIPLIER	1.0	10	1.0	1.0	0.1	0.1				
PFE	+2.3	+1.7	+1.6	+1.1	+1.5	+3.6				
CUR. (AMPS)	1	1	0.5	1	1	1	1	0.5	1	1
POINT NO.										
SEP. (n)										
H. F. MV	15.7	1.15	32.3	42.7	6.93	7.86				
DRIFT	0	0	0	0	0	0				
1.0 PFE K_n/1000	16.8	1.2	3	6	10.5	16.8				
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	2.6	1.0	0.9	0.4	1.8	3.9				
3.0 MV $\rho/2\pi$	271	142	199	263	75	136				
DRIFT MCF	9.6	7.1	4.5	1.5	24	29				
S. P.		+1.7					+5.0			
NOISE										
POT RES.							TO MUCH NOISE TO READ			
CULT & CMTS							NOISE ON REC. MOVE POT 20'E OFF OUT CROP			

I. P. RECEIVER NOTES, JOB NO. 1040, AREA Binghamton

LINE 7W, HALF E, SP. 1, a = 100', BEARING E/W

SENDER STA. 00EW = ELECTRODE NO. 4, DATE Aug 22, 1975

PAGE 4

HEINRICHS GEOEX

SEND	6-7	5-6	4-5							
RECEIVE	7-8 E →									
MULTIPLIER	1.0	0.1	0.1							
PFE	+1.0	+8.2	-.1							
CUR. (AMPS)	1	0.5	1							
POINT NO.										
SEP. (n)										
H. F. MV	22.6	8.31	8.36							
DRIFT	+.2	0	0							
1.0 PFE K_n/1000	6	10.5	16.8							
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	1.2	0.5	0.2							
3.0 MV $\rho/2\pi$	139	179	147							
DRIFT MCF	8.6	2.8	1.4							
S. P.	+.6									
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 1040, AREA Bing Hampton

LINE 7W, HALF W, SP. 1, a = 100', BEARING E/W

SENDER STA. 00E/W = ELECTRODE NO. 4, DATE Aug 22, 1975

PAGE 5

HEINRICHS GEOEX

SEND	SP	SD	3-4	4-5	5-6	6-7	2-3	3-4	4-5	5-6
RECEIVE	0-1W	1-2W	2-3W				3-4W			
MULTIPLIER	—	—	10	1.0	10	1.0	10	1.0	1.0	1.0
PFE	—	—	+2.5	+3.2	+8.6	+3.0	+1.4	+3.6	+2.5	+2.2
CUR. (AMPS)			1	1	.5	1	1	1	1	.5
POINT NO.										
SEP. (n)										
H. F. MV	—	—	26.5	34.0	19.4	28.8	24.7	54.3	42.2	16.9
DRIFT	—	—	0	0	0	0	0	0	4.2	0
1.0 PFE $K_n/1000$			0.3	1.2	3	6	0.3	1.2	3	6
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_C			2.8	3.9	3.5	8.3	1.7	3.9	2.7	2.5
3.0 MV $\rho/2\pi$			81	239	210	178	76	67	130	208
DRIFT MCF			34	16	17	19	22	58	21	12
S. P.	~~+1.9~~	+9.3	+11.7				-19.3			
NOISE	-12.8									
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 1044, AREA Bing Hampton

LINE 7N, HALF W, SP. 1, a = 1601, BEARING E/W

SENDER STA. 00 E/W = ELECTRODE NO. 4, DATE Aug 22, 1975

PAGE 6

HEINRICHS GEOEX

SEND	6-7	1-2	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4
RECEIVE	→	4-5 W	→	→	→	→	→	5-6 W	→	→
MULTIPLIER	1.0	1.0	1.0	1.0	1.0	0.1	0.1	1.0	1.0	0.1
PFE	+2.2	+.5	+2.2	+3.4	+1.7	+1.4	+1.5	+.5	+2.6	+2.6
CUR. (AMPS)	1	1	1	1	1	.5	1	1	1	1
POINT NO.										
SEP. (n)										
H. F. MV	16.7	6.6	65.3	19.2	37.5	8.69	9.27	14.1	21.0	7.64
DRIFT	0	0	0	0	0	0	0	0	+.2	0
1.0 PFE K_n/1000	10.5	0.3	1.2	3	6	10.5	16.8	1.2	3	6
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	2.5	0.8	2.5	3.7	2.0	1.7	1.8	0.8	2.8	2.9
3.0 MV $\rho/2\pi$	180	190	81	59	231	188	160	174	65	47
DRIFT MCF	14	4.2	31	63	8.6	9.1	11	4.6	4.3	62
S. P.	+7.02 →							+2.9		
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 1040, AREA _____

LINE 7N, HALF W, SP. 1, a = 100', BEARING E/W

SENDER STA. _____ = ELECTRODE NO. _____, DATE _____

PAGE 7

HEINRICHS GEOEX

SEND	4-5	5-6	1-2	2-3	3-4	4-5	1-2	2-3	3-4	OAT
RECEIVE	→	→	6-7W	→	→	→	7-8W	→	→	1-2
MULTIPLIER	1.0	0.1	1.0	0.1	0.1	0.1	1.0	1.0	0.1	1.0
PFE	+.8	+.5	+1.0	+2.7	+1.9	-.1	+.8	+2.6	+1.9	-.5
CUR. (AMPS)	1	.5	1	1	1	1	1	1	1	1.0
POINT NO.										use
SEP. (n)										-0.3
H. F. MV	17.1	4.25	32.5	6.34	2.73	6.96	57.4	13.3	6.03	97.5
DRIFT	0	0	0	0	0	0	0	0	0	0
1.0 PFE K_n/1000	10.5	16.8	3	6	10.5	16.8	6	10.5	16.8	
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	1.1	0.8	1.3	3.0	2.2	0.2	1.1	2.9	2.2	
3.0 MV $\rho/2\pi$	185	147	100	39	29	120	354	144	104	
DRIFT MCF	6.0	5.5	13	77	75	1.7	3.1	20	21	
S. P.			-8.4				+6.8			
NOISE										
POT RES.										
CULT & CMTS										

I. P. SENDER NOTES

JOB No. 1040 AREA Binghamton

LINE 7 NORTH, HALF EAST, SP. _____, DATE 8-22-75

PAGE 1

HEINRICHS GEOEX

SEND	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	5-6
RECEIVE										
RANGE	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+50
VOLTAGE	160	110	110	160	110	130	110	160	110	130
CURRENT	1	1	1	1	1	1	1	1	1	.50
SEND	4-5	3-4	2-3	1-2	EA 6	6-7	5-6	4-5	3-4	2-3
RECEIVE										
RANGE	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+50	X10+100	X10+100	X10+100
VOLTAGE	130	110	160	110	230	230	130	130	110	160
CURRENT	1	1	1	1	1	1	.50	1	1	1

FREQUENCIES

SENDER No.

OPERATOR Terry Wilson

RECEIVER No.

OPERATOR Bill Hurley

COMMENTS:

I. P. SENDER NOTES

JOB No. 1040 AREA BINGHAMTON

LINE 7 North, HALF EAST, SP. _____, DATE 8-22-75

PAGE 2

HEINRICHS GEOEX

SEND	1-2	6-7	5-6	4-5	3-4	2-3	6-7	5-6	4-5	3-4
RECEIVE										
RANGE	X10+100	X10+100	X10+50	X10+100	X10+100	X10+100	X10+100			
VOLTAGE	110	240	140	130	110	160	240			
CURRENT	1	1	.50	1	1	1	1	.50	1	1
SEND	6-7	5-6	4-5	3-4	5-6	4-5	6-7	2-3	3-4	4-5
RECEIVE										
RANGE	X10+100	X10+50	X10+100	X10+100	X10+50	X10+100	X10+100	X10+100	X10+100	X10+100
VOLTAGE	240	140	130	110	140	130	240	160	110	130
CURRENT	1	.50	1	1	.50	1	1	1	1	1

FREQUENCIES

SENDER No.

OPERATOR

RECEIVER No.

OPERATOR

COMMENTS:
WEST

I. P. SENDER NOTES

JOB No. 1040 AREA BINGHAMTON

LINE 7 North, HALF West, SP. 1, DATE 8-22-75

PAGE 3

HEINRICHS GEOEX

SEND	5-6	6-7	9-12	1-2	2-3	3-4	4-5	5-6	6-7	1-2
RECEIVE										
RANGE	X10+50	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+50	X10+100	X10+100
VOLTAGE	140	240	110	110	160	110	130	140	240	110
CURRENT	.50	1	1	1	1	1	1	.50	1	1
SEND	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5	1-2	2-3
RECEIVE										
RANGE	X10+100	X10+100	X10+100	X10+50	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100
VOLTAGE	160	110	130	140	110	160	110	130	110	160
CURRENT	1	1	1	.50	1	1	1	1	1	1

FREQUENCIES

SENDER No.

OPERATOR Terry Wilson

RECEIVER No.

OPERATOR Bill Hurley

COMMENTS:

I. P. SENDER NOTES

JOB No. 1090 AREA BINGHAMTON

LINE 7 North, HALF West, SP. 1, DATE 8-22-75

PAGE 4

HEINRICHS GEOEX

SEND	3-4									
RECEIVE										
RANGE	X10 +100									
VOLTAGE	110									
CURRENT	1									
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES	COMMENTS:
SENDER No.	
OPERATOR	
RECEIVER No.	
OPERATOR	

GEOEX
Cable: GEOEX

REC'D AUG 27 1975 REC'D

BOX 5964 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0578

I. P. RECEIVER NOTES, JOB NO. 1040, AREA BINGHAMPTON

LINE 8N, HALF E, SR. 1, a = 200, BEARING E/W

SENDER STA. 7E = ELECTRODE NO. 4, DATE AUG 29, 1975

PAGE 1

HEINRICHS GEOEX

SEND	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	CAL
RECEIVE	7-9E →		9-11E →			11-13E →				6-7
MULTIPLIER	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
PFE	+1.5	+1.7	+1.9	+2.0	+1.8	+2.4	+2.6	+2.3	+1.9	-1.3
CUR. (AMPS)									→	1.0
POINT NO.										
SEP. (n)										
H. F. MV	208	97.0	209	57.5	16.6	174	79.2	29.7	11.5	96.9
DRIFT	0	0	0	0	0	0	0	0	0	0
1.0 PFE K_n/1000	0.6	2.4	0.6	2.4	6	0.6	2.4	6	12	
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_C	0.8	1.0	2.2	2.3	2.1	2.7	2.9	2.6	2.2	
3.0 MV $\rho/2\pi$	128	116	129	127	102	107	195	183	142	
DRIFT MCF	6.2	8.6	17	18	21	25	15	14	16	
S. P.	+46.7		-12.9			+2.6				
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 1040, AREA BINGHAMTON

LINE 8N, HALF E, SR. 1, a = 100, BEARING E/W

SENDER STA. 7E = ELECTRODE NO. 4, DATE AUG 29, 1975

PAGE 2

HEINRICHS GEOEX

SEND	5-6	4-5	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3
RECEIVE	13-15E					15E	-17E			
MULTIPLIER	10	1.0	1.0	1.0	0.1	10	1.0	1.0	1.0	1.0
PFE	+1.5	+1.9	+1.8	+1.5	+1.1	+.6	+1.5	+1.4	+1.3	+1.2
CUR. (AMPS)	1									
POINT NO.										
SEP. (n)										
H. F. MV	311	68.0	37.6	18.6	8.93	35.5	25.2	27.0	20.3	12.5
DRIFT	0	0	0	0	0	0	0	0	0	0
1.0 PFE K_n/1000	0.6	2.4	6	12	21	0.6	2.4	6	12	21
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	1.8	2.2	2.1	1.8	1.4	0.9	1.8	1.7	1.6	1.5
3.0 MV $\rho/2\pi$	192	155	232	229	193	217	185	166	250	270
DRIFT MCF	9.4	14	9.1	7.9	7.3	4.1	9.7	10	6.4	5.6
S. P.	+2.7					-13.4				
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 1040, AREA Binghamton

LINE 8N, HALF E, SP. 1, a = 100, BEARING E/W

SENDER STA. 7E = ELECTRODE NO. 4, DATE Aug 29, 1975

PAGE 3

HEINRICHS GEOEX

SEND	1-2	6-7	5-6	4-5	3-4	2-3	6-7	5-6	4-5	3-4
RECEIVE	→	17-19E	→	→	→	→	19-21E	→	→	→
MULTIPLIER	0.1	1.0	1.0	0.1	0.1	0.1	1.0	0.1	0.1	0.1
PFE	+1.9	+1.5	+2.1	+1.9	+1.7	+1.4	+1.5	+2.1	+1.9	+1.5
CUR. (AMPS)	1	→	→	→	→	→	→	→	→	→
POINT NO.										
SEP. (n)		5-8								
H. F. MV	6.86	[illegible]	18.4	7.70	7.09	4.20	26.5	9.42	4.03	4.23
DRIFT	+.2	0	0	0	0	0	0	0	0	0
1.0 PFE K_n/1000	33.6	2.4	6	12	21	33.6	6	12	21	33.6
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	1.1	1.8	2.4	2.2	2.0	1.7	1.8	2.4	2.2	1.8
3.0 MV $\rho/2\pi$	237	143	113	95	153	125	163	116	87	146
DRIFT MCF	4.6	13	21	23	13	12	11	21	25	12
S. P.		+18.6					+20.5			
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 1040, AREA Bing Hampton

LINE 8N, HALF E, SR. 1, a = 100, BEARING E/W

SENDER STA. 7E = ELECTRODE NO. 4, DATE Aug 29, 1975

PAGE 4

HEINRICHS GEOEX

SEND		6.7	5.6	4.5							
RECEIVE		21-23E →									
MULTIPLIER		1.0	0.1	0.1							
PFE		+1.8	+2.2	+2.0							
CUR. (AMPS)		1 →									
POINT NO.											
SEP. (n)											
H. F. MV		24.5	9.92	4.71							
DRIFT		0	0	0							
1.0 PFE	K_n/1000	12	21	33.6							
0.3 PFE	ρ_{CAL}										
0.1 PFE	PFE_c	2.1	2.5	2.3							
3.0 MV	$\rho/2\pi$	302	214	162							
DRIFT	MCF	7.0	12	14							
S. P.		-9.2									
NOISE											
POT RES.											
CULT & CMTS											

I. P. RECEIVER NOTES, JOB NO. 1040, AREA Binghamton

LINE 8N, HALF N, SR 1, a = 100', BEARING E/W

SENDER STA. 7E = ELECTRODE NO. 4, DATE AUG. 29, 1975

PAGE 5

HEINRICHS GEOEX

SEND	5N	5N	3-4	4-5	5-6	6-7	2-3	3-4	4-5	5-6
RECEIVE	7-5E	5-8E	3-1E	→	→	→	1E - 1W	→	→	→
MULTIPLIER	—	—	10	1.0	1.0	1.0	10	1.0	1.0	0.1
PFE	—	—	+1.5	+1.6	+1.6	+1.7	+.4	+.2	+.4	+1.3
CUR. (AMPS)			1	→	→	→	→	→	→	→
POINT NO.										
SEP. (n)										
H. F. MV	—	—	286	41.6	18.9	11.7	211	71.7	16.1	9.04
DRIFT	—	—	0	0	0	-.2	0	0	0	0
1.0 PFE K_n/1000			0.6	2.4	6	12	0.6	2.4	6	12
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c			0.8	0.9	1.9	2.1	0.7	0.5	0.7	1.6
3.0 MV $\rho/2\pi$			176	103	116	144	130	177	99	111
DRIFT MCF			4.5	8.8	16	15	5.4	2.8	7.1	14
S. P.	-19.2	-12.8	+14.9				+20.4			
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 1040, AREA Bing Hampton

LINE PN, HALF W, SP. 1, a = 100', BEARING E/W

SENDER STA. 7E = ELECTRODE No. 4, DATE AUG 29, 1975

PAGE 6

HEINRICHS GEOEX

SEND	6-7	1-2	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4
RECEIVE	→	1-W	-3W	→	→	→	→	3-5W	→	→
MULTIPLIER	0.1	1.0	1.0	1.0	1.0	0.1	0.1	1.0	1.0	1.0
PFE	+1.6	+3.2	+3.0	+2.6	+2.6	+3.4	+3.6	+1.6	+1.5	+1.4
CUR. (AMPS)	1 →	→	→	→	→	→	→	→	→	→
POINT NO.										
SEP. (n)										
H. F. MV	6.82	20.3	74.9	40.8	10.8	6.77	5.44	71.0	38.1	23.4
DRIFT	0	0	0	0	0	0	0	0	0	0
1.0 PFE K_n/1000	21	0.6	2.4	6	12	21	33.6	2.4	6	12
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	1.9	3.5	3.3	2.9	2.9	3.7	3.9	1.9	1.8	1.7
3.0 MV $\rho/2\pi$	147	125	185	251	132	146	188	175	235	288
DRIFT MCF	13	28	18	12	22	25	21	11	7.2	5.9
S. P.		+33.6						+17.8		
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 1040, AREA Bing Hamilton

LINE 8N, HALF W, SP. 1, a = 100, BEARING EW

SENDER STA. 7E = ELECTRODE NO. 4, DATE AUG 29, 1975

PAGE 7

HEINRICHS GEOEX

SEND	4-5	5-6	1-2	2-3	3-4	4-5	1-2	2-3	3-4	CAL
RECEIVE	→	→	5-7W	→	→	→	7-9W	→	→	1-2
MULTIPLIER	0.1	0.1	1.0	1.0	1.0	0.1	1.0	1.0	1.0	1.0
PFE	+1.6	+2.3	+.1	+.5	+.4	+.5	+.2	~~[illegible]~~	+.7	-.3
CUR. (AMPS)	/	→	→	→	→	→	→	+.7	→	1.0
POINT NO.										
SEP. (n)										
H. F. MV	6.98	4.63	22.5	15.7	11.2	3.64	24.2	19.2	14.4	27.9
DRIFT	0	0	0	0	0	0	0	0	0	0
1.0 PFE K_n/1000	21	33.6	6	12	21	33.6	12	21	33.6	
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	1.9	2.6	0.4	0.8	0.7	0.8	0.5	1.0	1.0	
3.0 MV $\rho/2\pi$	150	160	139	193	241	126	298	414	497	
DRIFT MCF	13	16	2.9	4.1	2.9	6.4	1.7	2.4	2.0	
S. P.			+5.2				+21.7			
NOISE										
POT RES.										
CULT & CMTS										

I. P SENDER NOTES

JOB No. 1040 AREA BIG HAMPTON

LINE 8, HALF EAST, SP. 1, DATE 8/29/75

PAGE 1

HEINRICHS GEOEX

SEND	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	5-6
RECEIVE										
RANGE	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100
VOLTAGE	190	150	150	190	150	160	150	190	150	140
CURRENT	1	1	1	1	1	1	1	1	1	1
SEND	4-5	3-4	2-3	1-2	5-1 6-7	6-7	5-6	4-5	3-4	2-3
RECEIVE										
RANGE	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100
VOLTAGE	160	150	190	150	330	330	130	160	150	180
CURRENT	1	1	1	1	1	1	1	1	1	1

FREQUENCIES

SENDER No.

OPERATOR TED MERIKLE

RECEIVER No.

OPERATOR BILL HURLEY

COMMENTS:

I. P. SENDER NOTES

JOB No. 1040 AREA BIG HAMPTON

LINE 8, HALF EAST, SP. 1, DATE 8/29/75

PAGE 2

HEINRICHS GEOEX

SEND	1-2	6-7	5-6	4-5	3-4	2-3	6-7	5-6	4-5	3-4
RECEIVE										
RANGE	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100
VOLTAGE	150	320	130	160	150	180	320	130	160	150
CURRENT	1	1	1	1	1	1	1	1	1	1
SEND	6-7	5-6	4-5							
RECEIVE										
RANGE	X10+100	X10+100	X10+100							
VOLTAGE	320	130	160							
CURRENT	1	1	1							

FREQUENCIES

SENDER No.

OPERATOR TED MERIKLE

RECEIVER No.

OPERATOR BILL HURLEY

COMMENTS:

I. P. SENDER NOTES

JOB No. 1040 AREA BIG HAMPTON

LINE 8, HALF WEST, SP. 1, DATE 8/29/75

PAGE 1

HEINRICHS GEOEX

SEND	3-4	4-5	5-6	6-7	2-3	3-4	4-5	5-6	6-7	C/AL-2
RECEIVE										
RANGE	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100
VOLTAGE	150	160	130	310	190	150	160	130	310	150
CURRENT	/	/	/	/	/	/	/	/		/
SEND	1-2	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5
RECEIVE										
RANGE	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100
VOLTAGE	150	190	150	160	130	310	150	190	150	160
CURRENT	/	/	/	/	/	/	/	/	/	/

FREQUENCIES

SENDER No.

OPERATOR TERRY WILSON

RECEIVER No.

OPERATOR BILL HURLEY

COMMENTS:

I. P. SENDER NOTES

JOB No. 1040 AREA Binghamton

LINE 8, HALF West, SP. 1, DATE 8-29-75

PAGE 2

HEINRICHS GEOEX

SEND	5-6	1-2	2-3	3-4	4-5	1-2	2-3	3-4		
RECEIVE										
RANGE	X10 +100	X10 +100	X10 +100	X10 +100	X10 +100	X10 +100	X10 +100			
VOLTAGE	130	150	190	150	160	150	190	150		
CURRENT	1	1	1	1	1	1	1	1?		
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES	COMMENTS:
SENDER No.	
OPERATOR	
RECEIVER No.	
OPERATOR	

I. P. RECEIVER NOTES, JOB NO. 1070, AREA _____

LINE 38W EXT, HALF W, SR. 1, a = 1001, BEARING E/W

SENDER STA. 6W = ELECTRODE NO. 6, DATE Sept. 4, 1975

PAGE 1

HEINRICHS GEOEX

SEND	5-6	4-5	5-6	3-4	4-5	5-6	2-3	3-4	4-5	5-6
RECEIVE	6-7W	7-8W →		8-9W →			9-10W →			
MULTIPLIER	7-8W 10	10	1.0	10	10	1.0	10	10	10	1.0
PFE	+.7	+.5	+1.2	+.5	+.4	+1.0	+1.2	+1.1	+.7	+1.3
CUR. (AMPS)	.75	1	.5	1	1	.5	.75	1	1	.5
POINT NO.										
SEP. (n)										
H. F. MV	245	405	39.6	598	225	30.2	~~[illegible]~~	233	140	22.2
DRIFT	-.2	0	0	-.2	0	-.2	598	~~[illegible]~~ 0	0	0
1.0 PFE K_n/1000	0.3	0.3	1.2	0.3	1.2	3.0	0 0.3	1.2	3	6
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	1.2	0.9	1.6	1.0	0.8	1.5	1.6	1.5	1.1	1.7
3.0 MV $\rho/2\pi$	101	141	98	185	278	187	247	288	433	275
DRIFT MCF	12	6.4	16	5.4	2.9	8.0	6.5	5.2	2.5	6.2
S. P.	+4.3	+26.2		-11.1			-.5			
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 1040, AREA

LINE 28 W EXT., HALF W, SR. 1, a = 100, BEARING E/W

SENDER STA. 6 = ELECTRODE NO. 6, DATE SEPT. 4, 1975

PAGE 2

HEINRICHS GEOEX

SEND	1-2	2-3	3-4	4-5	5-6	1-2	2-3	3-4	4-5	CAL
RECEIVE	10 - 11 W					11 - 12 W				1-2
MULTIPLIER	10	10	1.0	1.0	1.0	10	1.0	1.0	1.0	1.0
PFE	+.9	+1.2	+1.3	+1.1	+1.3	1.0	.9	+1.1	+.8	-.4
CUR. (AMPS)	1	1	1	1	.5	1	1	1	1	1.0
POINT NO.										
SEP. (n)										
H. F. MV	87.4	186	100.8	84.8	15.8	228	77.8	53.6	53.7	97.0
DRIFT	0	0	0	0	0	0	0	0	0	0
1.0 PFE K_n/1000	0.3	1.2	3	6	10.5	1.2	3	6	10.5	
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_C	1.3	1.6	1.7	1.5	1.7	1.4	1.3	1.5	1.2	
3.0 MV $\rho/2\pi$	270	230	312	525	342	282	241	332	581	
DRIFT MCF	4.8	7.0	5.5	2.9	5.0	5.0	5.4	4.5	2.1	
S. P.	+4.3					+14.0				
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 1040, AREA Binghamton

LINE 28N, EXT. HALF W, SP. 1, a = 100', BEARING E/W

SENDER STA. 4 = ELECTRODE NO. 4, DATE Sept. 5, 1975

PAGE 3

HEINRICHS GEOEX

SEND	1-2	2-3	3-4	4-5	1-2	2-3	3-4			
RECEIVE	10-11E	→	→	→	11-12E	→	→			
MULTIPLIER	1.0	1.0	1.0	1.0	1.0	0.1	0.1			
PFE	+1.4	+1.8	+1.1	+1.0	+1.2	+1.2	+1.0			
CUR. (AMPS)	1	→	→	→	→	→	→			
POINT NO.										
SEP. (n)										
H. F. MV	30.5	19.7	10.8	12.1	22.4	5.46	4.90			
DRIFT	0	+.2	0	+.2	0	0	0			
1.0 PFE $K_n/1000$	3	6	10.5	16.8	6	10.5	16.8			
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	1.9	2.2	1.6	1.4	1.7	1.7	1.5			
3.0 MV $\rho/2\pi$	94	122	117	210	139	59	85			
DRIFT MCF	20	18	14	6.7	12	29	18			
S. P.	-2.4									
NOISE										
POT RES.										
CULT & CMTS										

I. P. SENDER NOTES

JOB No. 1040 AREA BINGHAMPTON

LINE 28, HALF ~~EAST~~ WEST, SP. EXTENSION, DATE 9/4/75

PAGE 1

HEINRICHS GEOEX

SEND	5-6	4-5	5-6	3-4	4-5	5-6	2-3	3-4	4-5	5-6
RECEIVE										
RANGE	X10+75	X10+100	X10+50	X10+100	X10+100	X10+50	X10+75	X10+100	X10+100	X10+50
VOLTAGE	310	220	260	320	220	260	300	330	220	260
CURRENT	.75	1	.50	1	1	.50	.75	1	1	.50
SEND	CA 1-2	1-2	2-3	3-4	4-5	5-6	~~1-2~~	1-2	2-3	3-4
RECEIVE										
RANGE	X10+100	X10+100	X10+100	X10+100	X10+100	X10+50	~~X10+100~~	X10+100	X10+100	X10+100
VOLTAGE	250	240	350	330	220	260	~~240~~	240	350	330
CURRENT	1	1	1	1	1	.50	~~1~~	1	1	1

FREQUENCIES

SENDER No.

OPERATOR TED MERIKLE

RECEIVER No.

OPERATOR BILL HURLEY

COMMENTS:

I. P. SENDER NOTES

JOB No. 1040 AREA BINGHAMPTON

LINE 28, HALF ~~EAST~~ WEST, SP. EXT., DATE 9/4/75

PAGE 2

HEINRICHS GEOEX

SEND	4-5									
RECEIVE										
RANGE	X/ot 100									
VOLTAGE	220									
CURRENT	1									
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES

SENDER No.

OPERATOR TED MERIKLE

RECEIVER No.

OPERATOR BILL HURLEY

COMMENTS:

I. P. SENDER NOTES

JOB No. 1040 AREA BIG HAMPTON

LINE 28, HALF WEST, SP. EXT., DATE 9/9/75

PAGE 1

HEINRICHS GEOEX

SEND	5-6	4-5	5-6	3-4	4-5	5-6				
RECEIVE										
RANGE	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150				
VOLTAGE	130	150	130	180	150	130				
CURRENT	1.5	1.5	1.5	1.5	1.5	1.5				
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES

SENDER No.

OPERATOR TED MERIKLE

RECEIVER No.

OPERATOR BILL HURLEY

COMMENTS: REPEAT

I. P. SENDER NOTES

JOB No. 1040 AREA BINGHAMPTON

LINE 28, HALF WEST, SP. EXT., DATE 9/5/75

PAGE 2

HEINRICHS GEOEX

SEND	1-2	2-3	3-4	4-5	1-2	2-3	3-4			
RECEIVE										
RANGE	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100			
VOLTAGE	260	250	220	180	280	300	220			
CURRENT	/	/	/	/	/	/	/			
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES

SENDER No.

OPERATOR TED MERIKLE

RECEIVER No.

OPERATOR BILL HURLEY

COMMENTS:

I. P. RECEIVER NOTES, JOB NO. 1040, AREA Binghamton

LINE 22N, HALF E, SP. 1, a = 200', BEARING E/W

SENDER STA. 2E = ELECTRODE NO. 4, DATE Sept 3, 1975

PAGE 1

HEINRICHS GEOEX

SEND	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	OAI
RECEIVE	2-4E →		4-6E	→		6-8E	→			6-7
MULTIPLIER	10	10	10	10	1.0	10	1.0	1.0	1.0	1.0
PFE	+.7	+1.0	+1.1	+.7	+1.1	+1.4	+1.7	+1.4	+1.7	+1.1
CUR. (AMPS)	1 →									-.1 ?1.0
POINT NO.										
SEP. (n)										
H. F. MV	65.6	111	210	131	33.5	505	43.6	42.7	15.0	97.1
DRIFT	+.2	0	0	0	0	0	0	0	0	-.1
1.0 PFE K_n/1000	0.6	2.4	0.6	2.4	6	0.6	2.4	6	12	
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	0.7	1.1	1.2	0.8	1.2	1.5	1.8	1.5	1.8	
3.0 MV $\rho/2\pi$	405	274	130	323	207	312	108	263	185	
DRIFT MCF	1.7	4.0	9.3	2.5	5.8	4.8	17	5.7	9.7	
S. P.	-1.5		-8.2			+18.5				
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 1040, AREA Binghamton

LINE 22N, HALF E, SP. 1, a = 200', BEARING E/W

SENDER STA. 25 = ELECTRODE No. 4, DATE Sept 3, 1975

PAGE 2

HEINRICHS GEOEX

SEND	5-6	4-5	3-4	3-2	1-2	6-7	5-6	4-5	3-4	2-3
RECEIVE	8-10E →					10-12E →				
MULTIPLIER	10	1.0	1.0	1.0	0.1	10	1.0	1.0	1.0	1.0
PFE	+1.2	+2.1	+1.8	1.5	+1.8	+.6	+1.2	+1.7	+1.5	+1.2
CUR. (AMPS)	/									
POINT No.										
SEP. (n)										
H. F. MV	195	91.3	18.5	23.2	16.06	311	64.8	42.7	10.9	14.8
DRIFT	0	0	0	0	0	0	0	0	0	0
1.0 PFE K_n/1000	0.6	2.4	6	12	21	0.6	2.4	6	12	21
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	1.3	2.2	1.9	1.6	1.9	0.7	1.3	1.8	1.6	1.3
3.0 MV $\rho/2\pi$	120	225	114	286	217	192	160	263	134	320
DRIFT MCF	11	9.8	17	5.6	8.7	3.6	8.1	6.8	12	4.1
S. P.	+13.9					+10.8				
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 1040, AREA Bingo Hampton

LINE 22N, HALF E, SP. 1, a = 200', BEARING E/W

SENDER STA. 2E = ELECTRODE No. 4, DATE Sept 3, 1975

PAGE 3

HEINRICHS GEOEX

SEND	1-2	6-7	5-6	4-5	3-4	2-3	6-7	5-6	4-5	3-4
RECEIVE	~~12-14E~~	12-14E	→	→	→	→	14-16	E →	→	→
MULTIPLIER	0.1	1.0	1.0	1.0	0.1	0.1	1.0	0.1	0.1	0.1
PFE	+1.5	+1.1	+1.5	+2.0	+1.6	+1.2	+1.2	+1.7	+2.1	+1.8
CUR. (AMPS)	1 →	→	→	→	→	→	→	.75	1 →	→
POINT NO.										
SEP. (n)										
H. F. MV	6.91	77.8	21.0	16.6	4.81	6.99	30.6	~~[illegible]~~	9.00	252
DRIFT	0	+~~[illegible]~~.2	+.2	0	0	0	0	7.07	0	+.2
1.0 PFE K_n/1000	33.6	2.4	6	12	21	33.6	6	12 0	21	33.6
0.3 PFE P_{CAL}										
0.1 PFE PFE_c	1.6	1.1	1.5	2.1	1.7	1.3	1.3	1.8	2.2	1.8
3.0 MV $P/2\pi$	239	192	130	205	104	242	189	116	194	87
DRIFT MCF	6.7	5.7	12	10	16	5.4	6.9	15	11	21
S. P.		+8.6					+3.4			
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 1040, AREA BINGHAMPTON

LINE 22N, HALF E, SP. 1, a = 200', BEARING E/W

SENDER STA. 2E = ELECTRODE No. 4, DATE Sept 3, 1975

PAGE 4

HEINRICHS GEOEX

SEND		6-7	5-6	4-5							
RECEIVE		16-18E	→								
MULTIPLIER		1.0	0.1								
PFE		+1.2	+1.5	+1.8							
CUR. (AMPS)		1	.75	1							
POINT No.											
SEP. (n)											
H. F. MV		18.1	4.52	7.41							
DRIFT		0	0	0							
1.0 PFE	K_n/1000	12	21	33.6							
0.3 PFE	ρ_{CAL}										
0.1 PFE	PFE_c	1.3	1.6	1.9							
3.0 MV	$\rho/2\pi$	223	130	256							
DRIFT	MCF	5.8	12	7.4							
S. P.		-3.1									
NOISE											
POT RES.											
CULT & CMTS											

I. P. RECEIVER NOTES, JOB No. 1040, AREA Bing Hampton

LINE 22N, HALF W, SP. 1, a = 200', BEARING E/W

SENDER STA. 2E = ELECTRODE No. 4, DATE SEPT. 2, 1975

PAGE 5

HEINRICHS GEOEX

SEND	SP	SP	3-4	4-5	5-6	6-7	2-3	3-4	4-5	5-6
RECEIVE	2E 00EW	0EN-2W	2W-4W			→	4W-6W			
MULTIPLIER	—	—	10	10	1.0	1.0	10	1.0	1.0	1.0
PFE	—	—	+1.7	+1.9	+1.8	+1.4	+1.1	+1.8	+1.5	+1.6
CUR. (AMPS)			1							→
POINT NO.										
SEP. (n)										
H. F. MV	—	—	134	124	29.3	17.0	331	39.4	59.5	13.2
DRIFT	—	—	0	0	0	0	0	0	0	0
1.0 PFE $K_n/1000$			0.6	2.4	6	12	0.6	2.4	6	12
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c			1.0	1.2	1.1	1.7	0.4	1.1	0.8	0.9
3.0 MV $\rho/2\pi$			83	306	181	210	204	97	367	163
DRIFT MCF			12	3.9	6.1	811	2.0	11	2.2	5.5
S. P.	+1.4	+5.7	+6.9				-7.5			
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. _____, AREA _____

LINE 22N, HALF W, SP. 1, a = 200', BEARING E/W

SENDER STA. _____ = ELECTRODE No. _____, DATE Sept 2, 1975

PAGE 6

HEINRICHS GEOEX

SEND	6-7	1-2	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4
RECEIVE	→	6W-	8W				→	8-10W		
MULTIPLIER	0.1	10	10	1.0	1.0	0.1	0.1	10	1.0	1.0
PFE	+1.3	+1.6	+1.2	+1.8	+1.1	+1.5	+1.2	+1.7	+1.8	1.0
CUR. (AMPS)	1									
POINT NO.										
SEP. (n)										
H. F. MV	9.29	400	106	20.8	29.6	8.63	6.81	129	63.0	15.0
DRIFT	0	-.2	0	0	0	0	0	-0	0	0
1.0 PFE K_n/1000	21	0.6	2.4	6	12	21	33.6	2.4	6	12
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	1.6	1.0	0.5	1.1	1.4	0.8	1.5	1.4	1.1	1.3
3.0 MV $\rho/2\pi$	201	297	262	128	365	186	235	318	389	185
DRIFT MCF	8.0	4.1	1.9	8.6	3.8	4.3	6.4	4.4	2.8	2.0
S. P.		+8.5						+2.8		
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO._____, AREA_____

LINE 22N, HALF W, SR. 1, a = 200', BEARING E/W

SENDER STA._____ = ELECTRODE NO._____, DATE_____

PAGE 7

HEINRICHS GEOEX

SEND	4-5	5-6	1-2	2-3	3-4	4-5	1-2	2-3	3-4	on 1
RECEIVE	→	→	10-	12W	→	→	12-14	W	→	1-2
MULTIPLIER	1.0	0.1	1.0	1.0	0.1	1.0	1.0	1.0	0.1	1.0
PFE	+1.8	+1.1	+1.1	+.8	+.8	+1.6	+.7	+.5	+.5	+.3
CUR. (AMPS)	1	→							→	.3 1.0
POINT NO.										
SEP. (n)										
H. F. MV	23.1	6.97	50.0	32.3	8.25	14.6	20.6	16.5	4.71	97.4
DRIFT	0	0	0	0	0	0	+.2	0	0	0
1.0 PFE K_n/1000	21	33.6	6	12	21	33.6	12	21	33.6	
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	2.1	1.4	1.4	1.1	1.1	1.9	0.9	0.8	0.8	
3.0 MV $\rho/2\pi$	499	241	308	399	178	504	254	356	163	
DRIFT MCF	4.2	5.8	4.5	2.8	6.2	3.8	3.5	2.2	4.9	
S. P.			-8.6				+6.2			
NOISE										
POT RES.										
CULT & CMTS										

I. P. SENDER NOTES

JOB No. 1040 AREA Binghamton

LINE 22 North, HALF East, SP. 10, DATE 9-3-75

PAGE 1

HEINRICHS GEOEX

SEND	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	5-6
RECEIVE										
RANGE	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100
VOLTAGE	110	130	110	110	130	260	110	110	140	330
CURRENT	1	1	1	1	1	1	1	1	1	1
SEND	4-5	3-4	2-3	1-2	6-7 CAL	6-7	5-6	4-5	3-4	2-3
RECEIVE										
RANGE	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100
VOLTAGE	270	120	120	130	200	200	340	270	120	130
CURRENT	1	1	1	1	1	1	1	1	1	1

FREQUENCIES

SENDER No.

OPERATOR Terry Wilson

RECEIVER No.

OPERATOR

COMMENTS:

I. P. SENDER NOTES

JOB No. 1040 AREA Binghamton

LINE 22 NORTH, HALF EAST, SP. 0, DATE

PAGE 2

HEINRICHS GEOEX

SEND	1-2	6-7	5-6	4-5	3-4	2-3	6-7	5-6	4-5	3-4
RECEIVE										
RANGE	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+75	X10+100	X10+100
VOLTAGE	140	220	360	280	120	130	220	280	280	120
CURRENT	1	1	1	1	1	1	1	.75	1	1
SEND	6-7	5-6	4-5							
RECEIVE										
RANGE	X10+100	X10+75	X10+100							
VOLTAGE	240	290	290							
CURRENT	1	.75	1							

FREQUENCIES

SENDER No.

OPERATOR

RECEIVER No.

OPERATOR

COMMENTS:

I. P. SENDER NOTES

JOB No. 1040 AREA BIG HAMPTON

LINE 22, HALF ~~EAST~~ WEST, SP. _____, DATE 9/2/75

PAGE 1

HEINRICHS GEOEX

SEND	3-4	4-5	5-6	6-7	2-3	3-4	4-5	5-6	6-7	CA 1-2
RECEIVE										
RANGE	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100
VOLTAGE	100	250	300	170	110	100	250	300	170	110
CURRENT	1	1	1	1	1	1	1.8	1	1	1
SEND	1-2	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5
RECEIVE										
RANGE	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100
VOLTAGE	110	110	100	250	300	170	110	110	100	250
CURRENT	1	1	1	1	1	1	1	1	1	1

FREQUENCIES

SENDER No.

OPERATOR TED MERIKLE

RECEIVER No.

OPERATOR BILL HURLEY

COMMENTS:

I. P. SENDER NOTES

JOB No. 1040 AREA BIG HAMPTON

LINE 22, HALF WEST, SP. _____, DATE 9/2/75 9/3/75

PAGE 2

HEINRICHS GEOEX

SEND	5-6	1-2	2-3	3-4	4-5	1-2	2-3	3-4		
RECEIVE										
RANGE	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100		
VOLTAGE	320	120	120	110	270	130	120	110		
CURRENT	1	1	1	1	1	1	1	1		
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES

SENDER No.

OPERATOR TED MERIKLE

RECEIVER No.

OPERATOR BILL HURLEY

COMMENTS:

I. P. RECEIVER NOTES, JOB NO. 1644, AREA Binghampton

LINE 28N, HALF E, SP. 1, α = 100°, BEARING E/W

SENDER STA. 00 EN = ELECTRODE NO. 4, DATE Aug. 26, 1975

PAGE 1

HEINRICHS GEOEX

SEND	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	6-7
RECEIVE	0-1E	→	1-2E	→	→	2-3E	→	→	→	6-7
MULTIPLIER	1.0	10	10	10	1.0	10	10	1.0	1.0	1.0
PFE	+.9	+.9	+1.1	+.7	+.9	+.5	+1.3	+.7	+.9	-.5
CUR. (AMPS)	1	→	→	→	→	→	→	→	→	1.0
POINT NO.										-.4
SEP. (n)										
H. F. MV	656	280	725	115	81.9	792	211	58.6	47.9	98.1
DRIFT	0	0	0	0	0	0	0	0	0	0
1.0 PFE K_n/1000	0.3	1.2	0.3	1.2	3	.3	1.2	3	6	
0.3 PFE P_{CAL}										
0.1 PFE PFE_c	1.4	1.4	1.5	1.1	1.3	0.9	1.7	1.1	1.3	
3.0 MV $\rho/2\pi$	170	343	222	141	251	243	258	179	293	
DRIFT MCF	8.2	4.1	6.8	7.8	5.2	3.7	6.6	6.8	4.4	
S. P.	+21.1	-7.0 →				-4.0				
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 1040, AREA BINGHAMTON

LINE 28N, HALF E, SP. 1, a = 100', BEARING E/W

SENDER STA. 00E/W = ELECTRODE NO. 4, DATE AUG. 26, 1975

PAGE 2

HEINRICHS GEOEX

SEND	5-6	4-5	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3
RECEIVE	3-4E	→				4-5				
MULTIPLIER	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
PFE	+1.2	+.7	+1.4	+.6	+.5	+1.2	+.3	+.7	+1.4	+.7
CUR. (AMPS)	1									
POINT NO.										
SEP. (n)										
H. F. MV	278	183	77.8	26.3	24.0	236	60.0	61.2	36.2	14.6
DRIFT	0	0	0	0	0	0	0	0	0	0
1.0 PFE K_n/1000	.3	1.2	3	6	10.5	.3	1.2	3	6	10.5
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	0.6	1.1	1.8	1.0	0.9	0.6	0.7	1.1	1.8	1.1
3.0 MV $\rho/2\pi$	84	224	238	161	257	72	74	187	222	157
DRIFT MCF	7.1	4.9	7.6	6.2	3.5	8.3	9.5	5.9	8.1	7.0
S. P.	+6.3					+3.7				
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 1040, AREA Bing Hamilton

LINE 28N, HALF E, SR 1, a = 100', BEARING E

SENDER STA. 00 FL = ELECTRODE NO. 4, DATE Aug 26, 1975

PAGE 3

HEINRICHS GEOEX

SEND	1-2	6-7	5-6	4-5	3-4	2-3	6-7	5-6	4-5	3-4
RECEIVE	→	5-6	E →				6-7 E			→
MULTIPLIER	1.0	1.0	1.0	1.0	1.0	0.1	1.0	1.0	1.0	1.0
PFE	+18	+.6	+.6	+1.1	+1.5	+.5	+.5	+.6	+1.1	+1.4
CUR. (AMPS)	1									
POINT NO.										
SEP. (n)										
H. F. MV	15.0	70.1	25.5	30.2	19.5	8.67	34.9	14.7	18.3	12.7
DRIFT	0	0	0	0	0	0	0	0	0	0
1.0 PFE K_n/1000	16.8	1.2	3	6	10.5	16.8	3	6	10.5	16.8
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	1.2	1.0	1.0	1.5	1.9	0.9	0.9	1.0	1.5	1.8
3.0 MV $\rho/2\pi$	257	86	78	185	209	149	107	90	196	218
DRIFT MCF	4.7	12	13	8.1	9.1	6.7	8.4	11	7.6	8.3
S. P.		-10.6					+1.1			
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 1040, AREA Bing Hampton

LINE 28E, HALF E, SP. 1, a = 100', BEARING E/W

SENDER STA. 00EW = ELECTRODE NO. 4, DATE 8-26-75

PAGE 4

HEINRICHS GEOEX

SEND	6-7	5=6	4-5							
RECEIVE	7-8E	→	→							
MULTIPLIER	1.0	1.0	1.0							
PFE	+1.5	+1.5	+1.1							
CUR. (AMPS)	1	→	→							
POINT NO.										
SEP. (n)										
H. F. MV	28H	12.7	16.6							
DRIFT	0	-.2	0							
1.0 PFE K_n/1000	6	10.5	16.8							
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	0.9	1.0	1.5							
3.0 MV $\rho/2\pi$	174	136	285							
DRIFT MCF	5.2	7.3	5.3							
S. P.	-1.8									
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 1040, AREA Binghamton

LINE 28W, HALF W, SP. 1, a = 100', BEARING E/W

SENDER STA. 00EW = ELECTRODE No. 4, DATE AUG 26, 1975

PAGE 5

HEINRICHS GEOEX

SEND	SP	SP	3-4	4-5	5-6	6-7	2-3	3-4	4-5	5-6
RECEIVE	0—1W	1-2W	2-3W	→	→	→	3-4W			
MULTIPLIER	—	—	10	10	1.0	1.0	10	10	10	1.0
PFE	—	—	+1.7	+1.8	+1.9	+1.6	+1.7	+1.9	+1.8	+1.0
CUR. (AMPS)			1	→	→	→	→	→	→	→
POINT NO.										
SEP. (n)										
H. F. MV	—	—	72.5	219	57.1	43.4	607	332	146	42.7
DRIFT	—	—	0	0	0	0	+.2	0	0	0
1.0 PFE K_n/1000			.3	1.2	3	6	.3	1.2	3	6
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c			1.1	1.2	1.3	1.2	1.0	1.3	1.2	1.4
3.0 MV $\rho/2\pi$			222	268	175	266	186	407	447	262
DRIFT MCF			5.0	1.5	7.4	4.5	5.4	3.2	2.7	5.4
S. P.	+15.1	+26.8	-13.2				-9.8			
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 1040, AREA Binghamton

LINE 28N, HALF W, SR. 1, a = 1001, BEARING E/W

SENDER STA. 00EN = ELECTRODE NO. 4, DATE Aug 26, 1975

PAGE 6

HEINRICHS GEOEX

SEND	6-7	1-2	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4
RECEIVE	→	4-5 W	→	→	→	→	→	5-6 W	→	→
MULTIPLIER	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
PFE	+1.7	+1.6	+1.7	+1.2	+1.0	+1.8	+1.6	+1.8	+1.5	+1.1
CUR. (AMPS)	1	→	→	→	→	→	→	→	→	→
POINT NO.										
SEP. (n)										
H. F. MV	36.9	28.2	77.0	64.6	33.9	12.7	11.5	76.4	28.6	30.7
DRIFT	0	0	0	0	0	0	0	0	0	0
1.0 PFE K_n/1000	10.5	.3	1.2	3	6	10.5	16.4	1.2	3	6
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	1.1	1.0	1.1	1.6	1.4	1.2	1.0	1.2	0.9	1.5
3.0 MV $\rho/2\pi$	396	86	94	198	208	136	197	94	88	188
DRIFT MCF	2.8	12	12	8.1	6.7	8.8	5.1	13	10	8.0
S. P.		-10.6						+33.3		
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 1040, AREA Binghampton

LINE 28N, HALF W, SP. 1, a = 100', BEARING E/W

SENDER STA. 005W = ELECTRODE NO. 4, DATE AUG 26, 1975

PAGE 7

HEINRICHS GEOEX

SEND	4-5	5-6	1-2	2-3	3-4	4-5	1-2	2-3	3-4	CAL
RECEIVE	→	→	6-7	W	→	→	7-8W	→	→	1-2
MULTIPLIER	1.0	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
PFE	+1.9	+1.5	+1.6	+1.6	+1.1	+1.9	2.6	3.2	+2.5	-.4
CUR. (AMPS)	1								→	1.0
POINT NO.										
SEP. (n)										
H. F. MV	17.8	7.68	57.2	25.4	25.8	15.8	41.3	19.0	23.3	97.8
DRIFT	0	0	0	0	0	0	0	0	-.2	0
1.0 PFE $K_n/1000$	10.5	16.8	3	6	10.5	16.8	6	10.5	16.8	
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	1.3	0.9	1.0	1.0	1.5	1.3	3.0	3.6	3.0	
3.0 MV $\rho/2\pi$	191	132	175	156	277	271	253	204	400	
DRIFT MCF	6.8	6.8	+10.9	6.4	5.4	4.8	-11.5	18	7.5	
S. P.			5.7				12			
NOISE										
POT RES.										
CULT & CMTS										

I. P. SENDER NOTES

JOB No. _____ AREA BIG HAMPTON

LINE 28, HALF EAST, SP. _____, DATE 8/26/75

PAGE 1

HEINRICHS GEOEX

SEND	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	5-6
RECEIVE										
RANGE	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100
VOLTAGE	180	150	290	180	150	270	290	180	150	160
CURRENT	1	1	1	1	1	1	1	1	1	1
SEND	4-5	3-4	2-3	1-2	CA 6-7	6-7	5-6	4-5	3-4	2-3
RECEIVE										
RANGE	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100
VOLTAGE	270	290	180	150	110	110	160	270	290	180
CURRENT	1	1	1	1	1	1	1	1	1	1

FREQUENCIES

SENDER No.

OPERATOR TED MERIKLE

RECEIVER No.

OPERATOR BILL HURLEY

COMMENTS:

I. P. SENDER NOTES

JOB NO. _____ AREA BIG HAMPTON

LINE 28, HALF EAST, SP. _____, DATE 8/26/75

PAGE 2

HEINRICHS GEOEX

SEND	1-2	6-7	5-6	4-5	3-4	2-3	6-7	5-6	4-5	3-4
RECEIVE										
RANGE	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100
VOLTAGE	150	110	160	270	290	180	110	160	270	290
CURRENT	1	1	1	1	1	1	1	1	1	1
SEND	6-7	5-6	4-5							
RECEIVE										
RANGE	X10+100	X10+100	X10+100							
VOLTAGE	110	160	270							
CURRENT	1	1	1							

FREQUENCIES

SENDER NO.

OPERATOR TED MERIKLE

RECEIVER NO.

OPERATOR BILL HURLEY

COMMENTS:

I. P. SENDER NOTES

JOB NO. _____ AREA BIG HAMPTON

LINE 28, HALF WEST, SP. _____, DATE 8/26/75

PAGE 1

HEINRICHS GEOEX

SEND	3-4	4-5	5-6	6-7	2-3	3-4	4-5	5-6	6-7	CBL 1-2
RECEIVE										
RANGE	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100
VOLTAGE	290	270	160	110	190	290	270	160	110	150
CURRENT	/	/	/	/	/	/	/	/	/	/
SEND	1-2	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5
RECEIVE										
RANGE	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100
VOLTAGE	150	180	290	270	160	110	150	180	290	270
CURRENT	/	/	/	/	/	/	/	/	/	/

FREQUENCIES

SENDER NO.

OPERATOR TED MERIKLE & Terry WILSON

RECEIVER NO.

OPERATOR BILL HURLEY

COMMENTS:

GEOEX

Cable: GEOEX

RECD AUG 27 1975 RECD

BOX 5364 TUCSON, ARIZONA 85703

Phone: (AREA 602) 623-0578

I. P. SENDER NOTES

JOB NO. _____ AREA Binghamton

LINE 28, HALF West, SP. _____, DATE 8-26-75

PAGE 2

HEINRICHS GEOEX

SEND	5-6	1-2	2-3	3-4	4-5	1-2	2-3	3-4		
RECEIVE										
RANGE	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100		
VOLTAGE	160	150	180	290	270	150	180	290		
CURRENT	1	1	1	1	1	1	1	1		
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES	COMMENTS:
SENDER NO.	
OPERATOR	
RECEIVER NO.	
OPERATOR	

GEOEX

Cable: GEOEX

REC'D AUG 27 1975 REC'D

BOX 5984 TUCSON, ARIZONA 85703

Phone: (AREA 602) 623-0576

I. P. RECEIVER NOTES, JOB NO. 1040, AREA Binghamton

LINE 28N, HALF E, SR. EXT., a = 100', BEARING E/W

SENDER STA. 5 = ELECTRODE NO. 4, DATE Sept 8, 1975

PAGE 1

HEINRICHS GEOEX

SEND	1-2	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2
RECEIVE	4-5E	5-6E	→	6-7E	→	→	7-8E	→	→	→
MULTIPLIER	100	10	10	10	10	10	100	10	1.0	1.0
PFE	+2.0	-.7	-1.3	-.4	-.6	-1.2	-.9	-.5	+.9	+.2
CUR. (AMPS)	1.5	—	—	—	—	—	—	—	—	—
POINT NO.										
SEP. (n)										
H. F. MV	4160	368	346	700	130	140	1100	315	83.4	968
DRIFT	+.3	0	-.2	+.2	0	0	0	0	0	0
1.0 PFE / K_n/1000	0.3	0.3	1.2	.3	1.2	3	.3	1.2	3	6
0.3 PFE / ρ_{CAL}										
0.1 PFE / PFE_c	2.1	-0.5	-1.0	-0.3	-0.4	-1.0	-0.7	-0.3	1.1	0.4
3.0 MV / $\rho/2\pi$	854	76	284	144	107	287	226	259	171	398
DRIFT / MCF	2.5	-6.6	-3.5	-2.1	-3.7	-3.5	-3.1	-1.2	6.4	1.0
S. P.	+16.1	-17.2		+8.5			+6.9			
NOISE										
POT RES.										
CULT & CMTS								Noise	Spikes	

I. P. RECEIVER NOTES, JOB NO. 1040, AREA Binghamton

LINE 28A, HALF E, SR. EXT., a = 100', BEARING E/W

SENDER STA. 5-E = ELECTRODE NO. 4, DATE SEPT. 8, 1975

PAGE 2

HEINRICHS GEOEX

SEND	5-6	4-5	3-4	2-3	1-2	5-6	4-5	3-4	2-3	1-2
RECEIVE	8-9E	→				9-10E	→			
MULTIPLIER	10	10	1.0	1.0	1.0	10	10	1.0	1.0	1.0
PFE	-.9	-1.0	+1.0	+.7	+.3	-.8	-.6	+1.2	+1.0	+.6
CUR. (AMPS)	1.5	→								
POINT NO.										
SEP. (n)										
H. F. MV	611	219	87.7	27.0	32.8	228	108	50.0	16.3	20.4
DRIFT	+.2	0	+.2	0	0	0	+.2	0	0	0
1.0 PFE K_n/1000	.3	1.2	3	6	10.5	1.2	3	6	10.5	16.8
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	-0.8	-0.8	1.1	0.9	0.5	-0.6	-0.5	1.4	1.2	0.8
3.0 MV $\rho/2\pi$	125	180	180	111	236	187	222	205	117	235
DRIFT MCF	-6.9	-4.4	6.1	8.1	2.1	-3.2	-2.3	6.8	10	3.4
S. P.	-7.4					+8.0				
NOISE					Pulse TO NEG. SIDE OF MOTOR					
POT RES.				RAIN clouds OVER Head NO LIGHTING						
CULT & CMTS	Noise Spikes?			Possible Pulse spikes 1 Every 3 sec.						

I. P. RECEIVER NOTES, JOB NO. 1040, AREA BINGHAMPTON

LINE 28N, HALF E, SR. EXT, a = 100', BEARING E/W

SENDER STA. 5-E = ELECTRODE NO. 4, DATE SEPT. 8, 1975

PAGE 3

HEINRICHS GEOEX

SEND		5-6	4-5	3-4	2-3	5-6	4-5	3-4	RA 1		
RECEIVE		10-11 E	→	→	→	11-12 E	→	→	5-6		
MULTIPLIER		1.0	1.0	1.0	0.1	1.0	1.0	1.0	1.0		
PFE		+1.9	+1.0	+1.5	+1.1	+1.9	+1.1	+1.7	-.2		
CUR. (AMPS)		1.5	→	→	→	→	→	→	1.0		
POINT NO.											
SEP. (n)											
H. F. MV		85.4	49.4	27.1	9.45	31.4	21.1	13.2	57.4		
DRIFT		0	0	0	0	-.2	0	0	0		
1.0 PFE	K_n/1000	3	6	10.5	16.8	6	10.5	16.8			
0.3 PFE	ρ_{CAL}										
0.1 PFE	PFE_C	1.1	1.2	1.7	1.3	1.2	1.3	1.9			
3.0 MV	$\rho/2\pi$	175	203	195	109	129	152	152			
DRIFT	MCF	6.3	5.9	8.7	12	9.3	8.6	13			
S. P.		-1.8				+.9					
NOISE											
POT RES.											
CULT & CMTS											

I. P. SENDER NOTES

JOB No. 1040 AREA BINGHAMPTON

LINE 28, HALF EAST, SP. EXT., DATE 9/9/75

PAGE 1

HEINRICHS GEOEX

SEND	1-2	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2
RECEIVE										
RANGE	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150
VOLTAGE	80	110	90	100	110	90	230	110	120	100
CURRENT	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
SEND	5-6	5-6	4-5	3-4	2-3	1-2	5-6	4-5	3-4	2-3
RECEIVE										
RANGE	X10+100	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150
VOLTAGE	170	250	230	110	120	90	250	230	110	120
CURRENT	1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5

FREQUENCIES

SENDER No.

OPERATOR TED MERIKLE

RECEIVER No.

OPERATOR BILL HURLEY

COMMENTS:

I. P. SENDER NOTES

JOB No. 1040 AREA BINGHAMPTON

LINE 28, HALF EAST, SP. EXT., DATE 9/9/75

PAGE 2

HEINRICHS GEOEX

SEND	1-2	5-6	4-5	3-4	2-3	5-6	4-5	3-4		
RECEIVE										
RANGE	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150		
VOLTAGE	100	250	230	110	120	250	230	110		
CURRENT	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5		
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES

SENDER No.

OPERATOR TED MERIKLE

RECEIVER No.

OPERATOR BILL HURLEY

COMMENTS:

I. P. RECEIVER NOTES, JOB NO. 1040, AREA Binghamton

LINE 30N, HALF W, SR. EXT, a = 100', BEARING E/W

SENDER STA. 3W = ELECTRODE NO. 4, DATE SEPT, 5, 1975

PAGE 1

HEINRICHS GEOEX

SEND	4-5	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5
RECEIVE	4-5W	5-6W →		6-7W →		→	7-8W →			
MULTIPLIER	10	10	10	10	10	1.0	10	10	1.0	1.0
PFE	+.6	+.6	+.9	+.6	+1.0	+1.2	+.3	+.4	+1.1	1.3
CUR. (AMPS)	1	1	.75	.5	.75	.5	1	1	1	.5
POINT NO.										
SEP. (n)										
H. F. MV	839	759	224	333	20.4	68.4	366	110	68.4	22.2
DRIFT	-.2	-.2	-.2	0	-.2	-.2	0	0	0	-.9
1.0 PFE K_n/1000	0.3	0.3	1.2	0.3	1.2	3	0.3	1.2	3	6
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	1.2	1.2	1.5	1.6	1.6	1.8	0.8	0.9	1.6	2.0
3.0 MV $\rho/2\pi$	255	231	363	203	331	416	111	134	208	270
DRIFT MCF	4.7	5.2	4.1	5.4	4.8	4.3	7.2	6.7	7.7	7.4
S. P.	+26.7	+1.8		+14.6			+1.1			
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 1040, AREA BINGHAMPTON

LINE 30N, HALF W, SR. EXT, a = 100', BEARING E/W

SENDER STA. _____ = ELECTRODE NO. _____, DATE SEPT. 19, 1975

PAGE 2

HEINRICHS GEOEX

SEND	1-2	2-3	3-4	4-5	1-2	2-3	3-4	4-5	1-2	2-3
RECEIVE	8-9W	→	→	→	9-10	W →	→	→	10-11W	→
MULTIPLIER	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
PFE	+.7	+.8	+1.3	+1.2	+.4	+.5	+1.1	+.8	+.7	+.9
CUR. (AMPS)	1	1	1	1	1	1	1	1	1	.75
POINT NO.										
SEP. (n)										
H. F. MV	189	73.1	51.9	36.4	122	58.5	47.2	36.6	33.2	13.6
DRIFT	0	+.2	0	+.2	0	0	0	0	0	0
1.0 PFE K_n/1000	1.2	3	6	10.5	3	6	10.5	16.8	6	10.5
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	1.2	1.2	1.8	1.6	1.0	1.0	1.6	1.3	1.2	1.4
3.0 MV $\rho/2\pi$	230	222	316	388	371	356	503	624	202	193
DRIFT MCF	+21.8	5.4	5.7	4.1	+6.3	2.8	3.2	2.1	+2.2	7.2
S. P.	5.2				2.7				5.9	
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 1040, AREA BINGHAMPTON

LINE 30 W, HALF W, SR. EXT., a = 100', BEARING E/W

SENDER STA. 3W = ELECTRODE NO. 4, DATE 9-5-75

PAGE 3

HEINRICHS GEOEX

SEND		3-4	0 A1								
RECEIVE		→	1-2								
MULTIPLIER		1.0	1.0	1.0							
PFE		+1.1	-.2	-.5							
CUR. (AMPS)		.75	-.5	0.50							
POINT NO.											
SEP. (n)											
H. F. MV		11.8	48.9	49.3							
DRIFT		0	48.6	0							
1.0 PFE	K_n/1000	16.8									
0.3 PFE	ρ_{CAL}										
0.1 PFE	PFE_c	1.6									
3.0 MV	$\rho/2\pi$	2.68									
DRIFT	MCF	6.0									
S. P.											
NOISE											
POT RES.		25K									
CULT & CMTS											

I. P. SENDER NOTES

JOB No. 1040 AREA BINGHAMPTON

LINE 30, HALF WEST, SP. _____, DATE 9/5/75

PAGE 1

HEINRICHS GEOEX

SEND	4-5	3-4	~~4-5~~	4-5	2-3	3-4	4-5	CA 1-2	1-2	2-3
RECEIVE	\									
RANGE	X10+100	X10+100	~~X10+75~~	X10+50	X10+50	X10+75	X10+50	X10+50	X10+100	X10+100
VOLTAGE	320	290	~~330~~	280	220	310	330	200	380	370
CURRENT	1	1	~~.75~~	.50	.50	.75	.50	.50	1	1
SEND	3-4	4-5	1-2	2-3	3-4	~~4-5~~	4-5	1-2	2-3	3-4
RECEIVE										
RANGE	X10+100	X10+50	X10+100	X10+100	X10+100	~~X10+50~~	X10+100	X10+100	X10+100	X10+100
VOLTAGE	200	280	380	370	200	~~330~~	180	380	370	210
CURRENT	1	.50	1	1	1	~~.50~~	1	1	1	1

FREQUENCIES

SENDER No.

OPERATOR TED MERIKLE

RECEIVER No.

OPERATOR BILL HURLEY

COMMENTS:

I. P. SENDER NOTES

JOB No. 1040 AREA BINGHAMPTON

LINE 30, HALF WEST, SP. EXT., DATE 9/5/75

PAGE 2

HEINRICHS GEOEX

SEND	4-5	1-2	2-3	3-4						
RECEIVE										
RANGE	X10+100	X10+100	X10+75	X10+75						
VOLTAGE	160	380	370	160						
CURRENT	1	1	.75	.75						
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES	COMMENTS:
SENDER No.	
OPERATOR TED MERIKLE	
RECEIVER No.	
OPERATOR BILL HURLEY	

I. P. RECEIVER NOTES, JOB NO. 1040, AREA [illegible]

LINE 30N, HALF E, SP. 1, a = 100, BEARING E/W

SENDER STA. 00EN = ELECTRODE NO. 1, DATE AUG 27, 1975

PAGE 1

HEINRICHS GEOEX

SEND	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	1-2
RECEIVE	0-1E →		1-2E →			2-3E →				6-7
MULTIPLIER	10	10	10	10	1.0	10	1.0	1.0	1.0	1.0
PFE	+1.6	+1.4	+1.5	+1.5	+1.6	+1.1	+1.5	+1.6	+1.4	-1.4
CUR. (AMPS)	1 →								→	1.0
POINT NO.										
SEP. (n)	1	2	1	2	3	1	2	3	4	
H. F. MV	49.5	190	256	115	53.2	378	95.3	58.0	30.0	99.4
DRIFT	0	0	0	0	0	0	0	0	0	0
1.0 PFE $K_n/1000$	0.3	1.2	0.3	1.2	3	0.3	1.2	3	6	
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	1.0	0.8	0.9	0.9	1.0	0.4	0.9	1.0	0.8	
3.0 MV $\rho/2\pi$	152	209	79	142	164	116	117	179	185	
DRIFT MCF	6.6	3.8	11	6.4	6.1	3.4	7.7	5.6	4.3	
S. P.	-15.1		+1.9			+1.5				
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 1040, AREA Binghamton

LINE 30N, HALF E, SR. 1, a = 100', BEARING E/W

SENDER STA. 00EW = ELECTRODE No. 4, DATE AUG 27, 1975

PAGE 2

HEINRICHS GEOEX

SEND	5-6	4-5	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3
RECEIVE	3-4E	→	→	→	→	4-5E	→	→	→	→
MULTIPLIER	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
PFE	+1.4	+1.7	+1.1	+1.1	+1.0	+1.9	+1.8	+1.9	+1.2	+1.3
CUR. (AMPS)	1	→	→	→	→	→	→	→	→	→
POINT NO.										
SEP. (n)										
H. F. MV	202	84.8	40.0	28.5	16.7	269	77.2	48.6	30.5	22.7
DRIFT	0	0	0	0	0	0	0	0	0	0
1.0 PFE $K_n/1000$	0.3	1.2	3	6	10.5	0.3	1.2	3	6	10.5
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	0.8	1.1	1.5	1.5	1.4	1.3	1.2	1.3	1.6	1.7
3.0 MV $\rho/2\pi$	62	104	123	176	180	83	95	150	188	245
DRIFT MCF	13	11	12	8.5	7.8	16	13	8.7	8.5	6.9
S. P.	-6.1					+25.1				
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 1040, AREA BINGHAMPTON

LINE 30N, HALF E, SR. 1, a = 100', BEARING E/W

SENDER STA. 00EW = ELECTRODE NO. 4, DATE AUG 27, 1975

PAGE 3

HEINRICHS GEOEX

SEND	1-2	6-7	5-6	4-5	3-4	2-3	6-7	5-6	4-5	3-4
RECEIVE	→	5-6 E	→	→	→	→	6-7 E	→	→	→
MULTIPLIER	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
PFE	+1.1	+.2	+.3	+.3	+.7	+.7	+.6	+.5	+.7	+1.0
CUR. (AMPS)	1	→	→	→	→	→	→	→	→	→
POINT NO.										
SEP. (n)										
H. F. MV	14.3	61.3	27.7	21.9	15.3	12.1	39.3	15.8	17.4	12.1
DRIFT	0	0	0	0	+.2	0	0	0	0	+.2
1.0 PFE K_n/1000	16.8	1.2	3	6	10.5	16.8	3	6	10.5	16.8
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	1.5	0.6	0.7	0.7	1.1	1.1	1.0	0.9	1.1	1.4
3.0 MV $\rho/2\pi$	247	76	85	135	165	209	121	122	188	209
DRIFT MCF	6.1	7.9	8.2	5.2	6.7	5.3	8.3	7.4	5.9	6.7
S. P.		-24.0					-7.6			
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 1040, AREA Binghamton

LINE 30N, HALF E, SR. 1, a = 1001, BEARING E/W

SENDER STA. 001E/W = ELECTRODE NO. 4, DATE Aug 27, 1975

PAGE 4

HEINRICHS GEOEX

SEND	6-7	5-6	4-5								
RECEIVE	7-8E	→	→								
MULTIPLIER	1.0	0.1	0.1								
PFE	+.6	+.5	+.6								
CUR. (AMPS)	1	→	→								
POINT NO.											
SEP. (n)											
H. F. MV	18.3	9.93	9.23								
DRIFT	0	0	0								
1.0 PFE K_n/1000	6	10.5	16.8								
0.3 PFE ρ_{CAL}											
0.1 PFE PFE_c	1.0	0.9	1.0								
3.0 MV $\rho/2\pi$	113	107	159								
DRIFT MCF	8.9	8.4	6.3								
S. P.	+1.5										
NOISE											
POT RES.											
CULT & CMTS											

I. P. RECEIVER NOTES, JOB NO. 1049, AREA _____

LINE 30N, HALF W, SR 1, a = 100, BEARING E/W

SENDER STA. _____ = ELECTRODE NO. 4, DATE AUG 22/1978

PAGE 5

HEINRICHS GEOEX

SEND	SP	SP	3-4	4-5	5-6	6-7	2-3	3-4	4-5	5-6
RECEIVE	0-1W	1-2W	2-3W	→	→	→	3-4W	→	→	→
MULTIPLIER	—	—	10	10	1.0	1.0	10	10	1.0	1.0
PFE	—	—	+.8	+.6	+.7	+.5	+.6	+.8	+.8	+.7
CUR. (AMPS)			1	→	→	→	→	→	→	→
POINT NO.										
SEP. (n)										
H. F. MV	—	—	926	188	54.3	30.2	642	265	90.2	30.4
DRIFT	—	—	+.2	+.2	+.2	0	0	0	0	0
1.0 PFE $K_n/1000$			0.3	1.2	3	6	0.3	1.2	3	6
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c			1.1	0.9	1.0	0.9	1.0	1.2	1.2	1.1
3.0 MV $\rho/2\pi$			285	232	167	186	198	326	278	187
DRIFT MCF			3.9	3.9	6.0	4.8	5.1	3.7	4.3	5.9
S. P.	-1.4	+9.6	+15.0				+22.8			
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. _____, AREA _____

LINE 30N, HALF W, SR. 1, a = 100', BEARING EW

SENDER STA. _____ = ELECTRODE NO. _____, DATE _____

PAGE 6

HEINRICHS GEOEX

SEND	6-7	1-2	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4
RECEIVE	→	4-5W	→	→	→	→	→	5-6W	→	→
MULTIPLIER	1.0	10	10	10	1.0	1.0	1.0	10	10	1.0
PFE	+.6	+.3	+.6	+.6	+.7	+.6	+.5	+.3	+.6	+.7
CUR. (AMPS)	1	→	→	→	→	→	→	→	→	→
POINT NO.										
SEP. (n)										
H. F. MV	18.5	8.18	241	127	50.1	18.3	12.0	307	126	73.0
DRIFT	0	0	0	8	0	0	0	0	+.2	0
1.0 PFE K_n/1000	10.5	0.3	1.2	3	6	10.5	16.8	1.2	3	6
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_C	1.0	0.7	1.0	1.0	1.1	1.0	0.9	0.7	0.9	1.1
3.0 MV $\rho/2\pi$	199	252	297	391	309	197	207	378	388	450
DRIFT MCF	5.0	2.8	3.4	2.6	3.6	5.1	4.3	1.9	2.3	2.4
S. P.		+15.4						-9.0		
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO._____, AREA_____

LINE 30W, HALF W, SP. 1, a = 100', BEARING E/W

SENDER STA._____ = ELECTRODE NO. 4, DATE_____

PAGE 7

HEINRICHS GEOEX

SEND	4-5	5-6	1-2	2-3	3-4	4-5	1-2	2-3	3-4	cal
RECEIVE	→	→	6-7W	→	→	→	7-8W	→	→	1-2
MULTIPLIER	1.0	1.0	10	1.0	1.0	1.0	1.0	1.0	1.0	1.0
PFE	+.5	+.4	+.5	+.9	+1.0	+.8	+1.0	+1.[illegible]	+1.2	-.4
CUR. (AMPS)	→	→	→	→	→	→	→	→	→	1.0
POINT NO.										
SEP. (n)										
H. F. MV	32.1	12.5	12.3	61.8	40.9	19.5	46.6	27.9	21.5	97.4
DRIFT	0	0	0	0	0	0	+.2	+.2	+.2	0
1.0 PFE K_n/1000	10.5	16.8	3	6	10.5	16.8	6	10.5	16.8	
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	0.9	0.8	0.9	1.3	1.4	1.2	1.3	1.4	1.5	
3.0 MV $\rho/2\pi$	346	216	379	381	441	336	287	301	371	
DRIFT MCF	2.6	3.7	2.4	3.4	3.2	3.6	4.5	4.7	4.0	
S. P.			+10.2				+16.0			
NOISE										
POT RES.										
CULT & CMTS										

I. P. SENDER NOTES

JOB No. 1040 AREA B16 HAMPTON

LINE 30, HALF EAST, SP. 1, DATE 8/27/75

PAGE 1

HEINRICHS GEOEX

SEND	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	5-6
RECEIVE										
RANGE	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100
VOLTAGE	180	170	140	180	170	170	140	180	170	220
CURRENT	1	1	1	1	1	1	1	1	1	1
SEND	4-5	3-4	2-3	1-2	6-7	6-7	5-6	4-5	3-4	2-3
RECEIVE										
RANGE	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100
VOLTAGE	170	140	180	170	170	170	220	170	140	180
CURRENT	1	1	1	1	1	1	1	1	1	1

FREQUENCIES

SENDER No.

OPERATOR TED MERIKLE

RECEIVER No.

OPERATOR BILL HURLEY

COMMENTS:

I. P. SENDER NOTES

JOB No. 1040 AREA BIG HAMPTON

LINE 70, HALF EAST, SP. 1, DATE 8/27/75

PAGE 2

HEINRICHS GEOEX

SEND	1-2	6-7	5-6	4-5	3-4	2-3	6-7	5-6	4-5	3-4
RECEIVE										
RANGE	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100
VOLTAGE	170	170	230	170	140	180	160	230	170	140
CURRENT	1	1	1	1	1	1	1	1	1	1
SEND	6-7	5-6	4-5							
RECEIVE										
RANGE	X10+100	X10+100	X10+100							
VOLTAGE	170	230	170							
CURRENT	1	1	1							

FREQUENCIES

SENDER No.

OPERATOR TED MERKLE

RECEIVER No.

OPERATOR BILL HURLEY

COMMENTS:

I. P. SENDER NOTES

JOB No. 1090 AREA Binghamton

LINE 30, HALF West, SP. 1, DATE 8-27-75

PAGE 1

HEINRICHS GEOEX

SEND	3-4	4-5	5-6	6-7	2-3	3-4	4-5	5-6	6-7	CAL 1-2
RECEIVE										
RANGE	x10+100	x10+100	x10+100	x10+100	x10+100	x10+100	x10+100	x10+100	x10+100	x10+100
VOLTAGE	140	170	220	160	180	140	170	220	160	170
CURRENT	1	1	1	1	1	1	1	1	1	1
SEND	1-2	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5
RECEIVE										
RANGE	x10+100	x10+100	x10+100	x10+100	x10+100	x10+100	x10+100	x10+100	x10+100	x10+100
VOLTAGE	170	180	140	170	220	150	170	180	140	170
CURRENT	1	1	1	1	1	1	1	1	1	1

FREQUENCIES

SENDER No.

OPERATOR Terry Wilson

RECEIVER No.

OPERATOR Bill Hurley

COMMENTS:

I. P. SENDER NOTES

JOB No. 1040 AREA Binghamton

LINE 30, HALF West, SP. 1, DATE 8-27-75

PAGE 2

HEINRICHS GEOEX

SEND	5-6	1-2	2-3	3-4	4-5	1-2	2-3	3-4		
RECEIVE										
RANGE	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100	X10+100		
VOLTAGE	220	170	180	140	170	170	180	140		
CURRENT	1	1	1	1	1	1	1	1		
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES

SENDER No.

OPERATOR Terry Wilson

RECEIVER No.

OPERATOR Bill Hurley

COMMENTS:

I. P. RECEIVER NOTES, JOB NO. 1040, AREA Binghamton

LINE 30N, HALF E, SP. EXT., a = 100', BEARING E/W

SENDER STA. 5E = ELECTRODE NO. 4, DATE Sept. 8, 1975

PAGE 1

HEINRICHS GEOEX

SEND	1-2	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2
RECEIVE	4-5E	5-6E	→	6-7E	→	→	7-8E	→	→	→
MULTIPLIER	10	10	10	10	10	10	10	10	10	10
PFE	+1.1	+.6	[illegible]	+1.1	+.8	+.7	-.2	+.6	+.6	+.1
CUR. (AMPS)	2	[illegible]2	[illegible]2	1.5 or 2	1.5	1.5	1.5	→	→	→
POINT NO.			+.3							
SEP. (n)		[illegible]55	10.4 [illegible]							
H. F. MV	44.3	[illegible]	[illegible]	95.3	193	59.5	327	36.5	114	13.1
DRIFT	0	0	0	0	0	0	0	0	0	0
1.0 PFE K_n/1000	0.3	0.3	1.2	0.3	1.2	3	0.3	1.2	3	6
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_C	1.3	0.9	0.5	1.3	1.0	0.9	0.0	0.8	0.8	0.3
3.0 MV $\rho/2\pi$	68	85	67	147 or 196	159	122	67	94	75	54
DRIFT MCF	19	11	7.5	10 or 6.6	6.3	7.4	0	8.5	11	5.6
S. P.	+4.3	~~+44.5~~					+26.2			
NOISE		+27.1		+12.2						
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 1040, AREA B.W. HAMPTON

LINE 30N, HALF E, SR. EXT., a = 100', BEARING E/W

SENDER STA. 5E = ELECTRODE NO. 4, DATE Sept. 8, 1975

PAGE 2

HEINRICHS GEOEX

SEND	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2	~~4-5~~	~~3-4~~
RECEIVE	8-9E	→		→	9-10E	→		→	10-11E	
MULTIPLIER	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.8	1.0	1.0
PFE	+.4	+1.4	+1.2	+.7	+.6	+1.6	+1.5	+.8	+.7	+1.6
CUR. (AMPS)	1.5	→								
POINT NO.										
SEP. (n)										
H. F. MV	213	93.2	34.0	12.5	126	63.5	25.9	9.93	62.8	36.2
DRIFT	0	0	0	0	0	0	0	0	0	0
1.0 PFE K_n/1000	1.2	3	6	10.5	3	6	10.5	16.8	6	10.5
0.3 PFE P_{CAL}										
0.1 PFE PFE_c	0.6	1.6	1.4	0.9	0.8	1.8	1.7	1.0	0.9	1.8
3.0 MV $\rho/2\pi$	175	192	140	90	259	261	186	114	258	260
DRIFT MCF	3.4	8.4	10	10	3.1	6.9	9.1	8.7	3.5	6.9
S. P.	+3.7				+27.4				+.4	
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 1040, AREA Binghamton

LINE 30N, HALF E, SR. EXT, a = 100', BEARING E/W

SENDER STA. 5E = ELECTRODE NO. 4, DATE Sept. 8, 1975

PAGE 3

HEINRICHS GEOEX

SEND		2-3	CAL								
RECEIVE		→	4-5								
MULTIPLIER		1.0	1.0								
PFE		+1.5	-.2								
CUR. (AMPS)		1.5	1.0								
POINT NO.											
SEP. (n)											
H. F. MV		16.4	97.3								
DRIFT		0	+.1								
1.0 PFE	K_n/1000	16.8									
0.3 PFE	P_{CAL}										
0.1 PFE	PFE_c	1.7									
3.0 MV	$P/2\pi$	189									
DRIFT	MCF	9.0									
S. P.											
NOISE											
POT RES.											
CULT & CMTS											

I. P. SENDER NOTES

JOB No. 1040 AREA BINGHAMPTON

LINE 38, HALF EAST, SP. EXT., DATE 9/8/75

PAGE 1

HEINRICHS GEOEX

SEND	1-2	2-3	1-2	2-3	~~3-4~~	3-4	2-3	1-2	EA 4-5	4-5
RECEIVE										
RANGE	X10+200	X10+200	X10+200	X10+200	~~X10+200~~	X10+150	X10+150	X10+150	X10+100	X10+150
VOLTAGE	140	150	140	150	~~190~~	150	120	110	120	140
CURRENT	2	2	2	2	~~2~~	1.5	1.5	1.5	1	1.5
SEND	2-3	3-4	1-2	4-5	3-4	2-3	1-2	4-5	3-4	2-3
RECEIVE										
RANGE	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150
VOLTAGE	120	150	110	140	150	120	110	150	150	120
CURRENT	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5

FREQUENCIES

SENDER No.

OPERATOR TED MERIKLE

RECEIVER No.

OPERATOR BILL HURLEY

COMMENTS:

I. P. SENDER NOTES

JOB No. 1040 AREA BINGHAMPTON

LINE 30, HALF EAST, SP. EXT., DATE 9/8/75

PAGE 2

HEINRICHS GEOEX

SEND	1-2	4-5	3-4	2-3						
RECEIVE										
RANGE	X10+150	X10+150	X10+150	X10+150						
VOLTAGE	110	150	150	120						
CURRENT	1.5	1.5	1.5	1.5						
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES

SENDER No.

OPERATOR TED MERIKLE

RECEIVER No.

OPERATOR BILL HURLEY

COMMENTS:

I. P. RECEIVER NOTES, JOB NO. 1040, AREA Downy Rock

LINE GS, HALF E, SR 1, a = 100', BEARING E(a)

SENDER STA. 00E(a) = ELECTRODE NO. 4, DATE SEPT. 24, 1975.

PAGE 1

HEINRICHS GEOEX

SEND	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	6-7
RECEIVE	0-1E	→	1-2E	→	→	2-3E	→	→	→	6-7
MULTIPLIER	10	10	10	10	1.0	10	10	1.0	1.0	10
PFE	+2.1	+2.8	+3.0	+3.8	+2.7	+1.8	+2.9	+2.5	+2.2	+1.7
CUR. (AMPS)	1.5	→	→	→	→	→	→	→	→	1.0
POINT NO.										see 0.6
SEP. (n)										
H. F. MV	403	127	461	114	60.6	775	241	82.8	55.9	121
DRIFT	+.2	0	0	0	0	+.2	0	0	0	0
1.0 PFE K_n/1000	.3	1.2	.3	1.2	3	.3	1.2	3	6	
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_C	1.4	2.2	2.4	3.2	2.1	0.7	2.3	1.9	1.6	
3.0 MV $\rho/2\pi$	135	171	155	153	204	260	324	278	376	
DRIFT MCF	20	25	30	40	20	5.1	14	13	8.1	
S. P.	+38.2	~~+1.5~~	+1.3			+29.1				
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 1040, AREA Pennypick

LINE 6S, HALF E, SR. 1, a = 100', BEARING E/W

SENDER STA. 20E/W = ELECTRODE NO. 4, DATE Sept. 24, 1975

PAGE 2

HEINRICHS GEOEX

SEND	5-6	4-5	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3
RECEIVE	3-4E	→				4-5E				
MULTIPLIER	10	10	1.0	1.0	1.0	100	10	1.0	1.0	1.0
PFE	+1.7	+2.6	+2.4	+2.6	+2.5	+2.3	+2.4	+2.1	+2.4	+2.7
CUR. (AMPS)	1.5									
POINT NO.										
SEP. (n)										
H. F. MV	414	105	53.2	22.3	17.3	1620	188	74.2	47.0	22.8
DRIFT	0	0	0	0	0	+12	0	0	0	
1.0 PFE / K_n/1000	.3	1.2	3	6	10.5	.3	1.2	3	6	10.5
0.3 PFE / ρ_{CAL}										
0.1 PFE / PFE_c	1.1	2.0	1.8	2.0	1.9	1.6	1.8	1.5	1.8	2.1
3.0 MV / $\rho/2\pi$	139	141	179	150	203	544	253	249	316	268
DRIFT / MCF	15	27	19	26	18	5.6	14	12	11	15
S. P.	+22.3					+31.1				
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 1040, AREA Ronny Rich

LINE 65, HALF E, SP. 1, a = 100', BEARING E/W

SENDER STA. _____ = ELECTRODE No. _____, DATE _____

PAGE 3

HEINRICHS GEOEX

SEND	1-2	6-7	5-6	4-5	3-4	2-3	6-7	5-6	4-5	3-4
RECEIVE	→	5-6	E →				6-7 E →			
MULTIPLIER	1.0	10	1.0	1.0	1.0	0.1	1.0	1.0	1.0	1.0
PFE	+2.5	+2.3	+2.0	+2.7	+2.8	+2.3	+1.3	+1.6	+2.3	+2.3
CUR. (AMPS)	1.5									
POINT NO.										
SEP. (n)										
H. F. MV	15.3	142	27.8	16.3	13.3	7.14	88.3	21.4	14.9	12.7
DRIFT	0	0	0	0	0	0	0	0	0	0
1.0 PFE / K_n/1000	16.8	1.2	3	6	10.5	16.8	3	6	10.5	16.8
0.3 PFE / ρ_{CAL}										
0.1 PFE / PFE_c	1.9	1.7	1.4	2.1	2.2	1.7	0.7	1.0	1.7	1.7
3.0 MV / $\rho/2\pi$	363	191	93	110	156	134	297	144	175	239
DRIFT / MCF	10	17	29	37	27	24	4.5	13	19	14
S. P.		+31.2					+33.1			
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 1040, AREA Penny Rich

LINE 65, HALF E, SR. 1, a = 100', BEARING E/W

SENDER STA. 00E/W = ELECTRODE NO. 4, DATE Sept. 24 1975

PAGE 4

HEINRICHS GEOEX

SEND	6-7	5-6	4-5							
RECEIVE	7-8E	→	→							
MULTIPLIER	1.0	1.0	0.1							
PFE	+1.5	+1.9	+1.9							
CUR. (AMPS)	1.5	→	→							
POINT NO.										
SEP. (n)										
H. F. MV	53.1	13.9	9.66							
DRIFT	0	0.1	0							
1.0 PFE K_n/1000	6	10.5	16.8							
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	0.9	1.3	1.3							
3.0 MV $\rho/2\pi$	357	163	182							
DRIFT MCF	4.8	15	14							
S. P.										
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 1046, AREA Pennyrah

LINE 6S, HALF W, SR. 1, a = 100', BEARING E/W

SENDER STA. 00E/W = ELECTRODE NO. 4, DATE Sept. 28, 1971

PAGE 5

HEINRICHS GEOEX

SEND	S.P.	S.P.	3-4	4-5	5-6	6-7	2-3	3-4	4-5	5-6
RECEIVE	0-1W	1-2W	2-3W	→	→	→	3-4W	→	→	→
MULTIPLIER	—	—	10	10	1.0	1.0	10	10	1.0	1.0
PFE	—	—	+1.4	+2.5	+2.8	+2.2	+1.5	+1.3	+2.0	+2.7
CUR. (AMPS)			1.5	→	→	→	1	1.5	→	→
POINT NO.										
SEP. (n)										
H. F. MV	—	—	912	119	45.6	62.3	565	296	55.2	25.9
DRIFT	—	—	0	0	0	0	0	0	0	0
1.0 PFE $K_n/1000$			.3	1.2	.3	6	.3	1.2	3	6
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c			0.8	1.9	2.2	1.7	3.9	0.9	1.4	2.1
3.0 MV $\rho/2\pi$			306	160	153	419	268	391	185	174
DRIFT MCF			5.0	23	2.8	7.8	6.4	4.4	14	23
S. P.	+34.7	+13.8	+.9				+.1			
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. _____, AREA _____

LINE 68, HALF W, SP. 1, a = _____, BEARING _____

SENDER STA. _____ = ELECTRODE NO. _____, DATE _____

PAGE 4

HEINRICHS GEOEX

SEND	6-7	1-2	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4
RECEIVE	→	4-5 W	→	→	→	→	→	5-6 W	→	→
MULTIPLIER	1.0	10	10	1.0	1.0	1.0	1.0	10	1.0	1.0
PFE	+2.1	+1.1	+1.7	+1.1	+2.1	+2.8	+2.1	+2.2	+2.0	+1.9
CUR. (AMPS)	1.5	1.5	1	1	1.5	1.5	1.5	1.5	1	1.5
POINT NO.										
SEP. (n)										
H. F. MV	38.5	699	12.5	70.1	24.5	13.4	20.9	131	36.4	38.6
DRIFT	0	0	0	0	0	0	0	0	0	0
1.0 PFE K_n/1000	10.5	.3	1.2	3	6	10.5	16.8	1.2	3	6
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	1.5	0.5	1.1	0.5	1.5	2.2	1.5	1.6	1.4	1.3
3.0 MV $\rho/2\pi$	453	235	237	333	165	158	393	176	172	259
DRIFT MCF	6.3	4.1	8.9	2.9	17	27	7.3	17	15	9.6
S. P.		+20.0						+16.7		
NOISE										
POT RES.										
CULT & CMTS								GR. FENCE		

I. P. RECEIVER NOTES, JOB NO. _____, AREA _____

LINE 65, HALF W, SP. 1, a = 200', BEARING E/W

SENDER STA. _____ = ELECTRODE NO. _____, DATE _____

PAGE 7

HEINRICHS GEOEX

SEND	4-5	5-6	1-2	2-3	3-4	4-5	1-2	2-3	3-4	0-1
RECEIVE	→	→	6-7W	→	→	→	7-8W	→	→	1-2
MULTIPLIER	1.0	0.1	1.0	1.0	1.0	0.1	1.0	1.0	1.0	10
PFE	+3.0	+2.9	+1.8	+1.9	+1.8	+2.4	+1.8	+2.1	+1.9	+.6
CUR. (AMPS)	1.5	1.5	1.5	1	1.5	1.5	1.5	1	1.5	1.0
POINT NO.										
SEP. (n)										
H. F. MV	11.1	6.44	80.0	26.0	29.9	9.17	42.0	16.4	22.7	12.0
DRIFT	0	0	+.2	0	0	0	0	0	0	+.2
1.0 PFE / K_n/1000	10.5	16.8	3	6	10.5	16.8	6	10.5	16.8	
0.3 PFE / ρ_{CAL}										
0.1 PFE / PFE_c	2.4	2.3	1.1	1.3	1.2	1.8	1.2	1.5	1.3	
3.0 MV / $\rho/2\pi$	131	121	269	247	352	173	282	273	427	
DRIFT / MCF	.35	36	2.8	10	6.5	20	8.1	11	5.8	
S. P.			+15.9				+11.5			
NOISE										
POT RES.										
CULT & CMTS										

I. P. SENDER NOTES

JOB No. 1040 AREA PENNY RICH

LINE 6 S, HALF EAST, SP. 1, DATE 9/24/75

PAGE 1

HEINRICHS GEOEX

SEND	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	5-6
RECEIVE										
RANGE	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150
VOLTAGE	700	520	600	700	520	350	600	700	520	420
CURRENT	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
SEND	4-5	3-4	2-3	1-2	8-A-7	6-7	5-6	4-5	3-4	2-3
RECEIVE										
RANGE	X10+150	X10+150	X10+150	X10+150	X10+100	X10+150	X10+150	X10+150	X10+150	X10+150
VOLTAGE	360	620	700	520	220	320	420	360	620	700
CURRENT	1.5	1.5	1.5	1.5	1	1.5	1.5	1.5	1.5	1.5

FREQUENCIES

SENDER No.

OPERATOR TED MERIKLE

RECEIVER No.

OPERATOR BILL HURLEY

COMMENTS:

1.5 = 1.71 amps (did a problem)

1.0 = 1.21

I. P. SENDER NOTES

JOB No. 1040 AREA PENNY RICH

LINE 65, HALF EAST, SP. 1, DATE 9/24/75

PAGE 2

HEINRICHS GEOEX

SEND	1-2	6-7	5-6	4-5	3-4	2-3	6-7	5-6	4-5	3-4
RECEIVE										
RANGE	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150
VOLTAGE	520	320	420	360	620	700	320	420	360	620
CURRENT	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
SEND	6-7	5-6	4-5							
RECEIVE										
RANGE	X10+150	X10+150	X10+150							
VOLTAGE	320	420	360							
CURRENT	1.5	1.5	1.5							

FREQUENCIES

SENDER No.

OPERATOR TED MERIKLE

RECEIVER No.

OPERATOR BILL HURLEY

COMMENTS:

I. P. SENDER NOTES

JOB No. 1040 AREA PENNY RICH

LINE 65, HALF WEST, SP. 1, DATE 9/24/75

PAGE 1

HEINRICHS GEOEX

SEND	3-4	4-5	5-6	6-7	2-3	3-4	4-5	5-6	6-7	CA-2
RECEIVE										
RANGE	X10+150	X10+150	X10+150	X10+150	X10+100	X10+150	X10+150	X10+150	X10+150	X10+100
VOLTAGE	600	260	320	320	500	600	260	320	320	360
CURRENT	1.5	1.5	1.5	1.5	1	1.5	1.5	1.5	1.5	1
SEND	1-2	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5
RECEIVE										
RANGE	X10+150	X10+100	X10+150	X10+150	X10+150	X10+150	X10+150	X10+100	X10+150	X10+150
VOLTAGE	500	500	420	260	320	320	500	480	600	260
CURRENT	1.5	1	1	1.5	1.5	1.5	1.5	1	1.5	1.5

FREQUENCIES

SENDER No.

OPERATOR TED MERIKLE

RECEIVER No.

OPERATOR BILL HURLEY

COMMENTS:

I. P. SENDER NOTES

JOB No. 1040 AREA PENNY RICH

LINE 65, HALF WEST, SP. 1, DATE 9/24/75

PAGE 2

HEINRICHS GEOEX

SEND	5-6	1-2	2-3	3-4	4-5	1-2	2-3	3-4		
RECEIVE										
RANGE	X10+150	X10+150	X10+100	X10+150	X10+150	X10+150	X10+100	X10+150		
VOLTAGE	320	500	480	600	280	500	480	600		
CURRENT	1.5	1.5	1	1.5	1.5	1.5	1	1.5		
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES

SENDER No.

OPERATOR TED MERIKLE

RECEIVER No.

OPERATOR BILL HURLEY

COMMENTS: ITS GETTING DARK

I. P. RECEIVER NOTES, JOB No. 1040, AREA Rainy Rich.

LINE 00NS, HALF E, SP. 1, a = 100', BEARING E/W

SENDER STA. 00EW = ELECTRODE No. 4, DATE Sept. 19, 1955

PAGE 1

HEINRICHS GEOEX

SEND	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	[illegible]
RECEIVE	0-1E	→	1-2E	→	→	2-3E	→	→	→	6-7
MULTIPLIER	10	1.0	10	10	1.0	10	1.0	1.0	1.0	10
PFE	+1.4	+2.0	+3.0	+2.7	+2.2	+1.4	+1.5	+1.2	+2.0	2.0
CUR. (AMPS)	2	1.5	2	2	1.5	2	2	2	1.5	1.0
POINT No.										
SEP. (n)										
H. F. MV	300	76.6	180	142	55.0	189	29.1	30.1	12.7	100.8
DRIFT	0	0	0	0	0	0	0	0	0	0
1.0 PFE K_n/1000	0.3	1.2	0.3	1.2	3	0.3	1.2	3	6	
0.3 PFE P_{CAL}	X1.915 all e									
0.1 PFE PFE_c	1.4	2.0	3.0	2.7	2.2	1.4	1.5	1.2	2.0	
3.0 MV $\rho/2\pi$	86	117	52	163	211	54	33	86	97	
DRIFT MCF	31	33	111	32	20	49	86	27	39	
S. P.	+13.0	[illegible]	+19.1			+14.0				
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 1040, AREA Penny Rich

LINE 00NS, HALF E, SR 1, a = 100', BEARING E/W

SENDER STA. 00E/N = ELECTRODE NO. 4, DATE Sept. 19, 1975

PAGE 2

HEINRICHS GEOEX

SEND	5-6	4-5	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3
RECEIVE	3-4 E	→	→	→	→	4-5 E	→	→	→	→
MULTIPLIER	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
PFE	+.1	+1.2	+1.6	+1.3	+2.0	+.9	+1.1	+1.8	+2.1	+2.2
CUR. (AMPS)	2	2	2	2	2	1.5	1.5	1.5	1.5	1.5
POINT NO.										
SEP. (n)										
H. F. MV	37.6	96.7	21.6	23.2	13.3	188	148	50.7	13.1	14.6
DRIFT	0	0	0	0	0	0	0	0	-.2	0
1.0 PFE / K_n/1000	0.3	1.2	3	6	10.5	0.3	1.2	3	6	10.5
0.3 PFE / ρ_{CAL}										
0.1 PFE / PFE_c	0.1	1.2	1.6	1.3	2.0	0.9	1.1	1.8	2.2	2.2
3.0 MV / $\rho/2\pi$	108	111	62	133	134	72	227	194	100	196
DRIFT / MCF	1.8	21	49	19	29	24	9.3	18	42	22
S. P.	+9.3					+9.8				
NOISE										
POT RES.										
CULT & CMTS		POWER	LINE	ON	ALL	READING	36'	AWAY		

I. P. RECEIVER NOTES, JOB NO. 1040, AREA Penny Rich

LINE 00W, HALF E, SP. 1, a = 100', BEARING E/W

SENDER STA. 00E/W = ELECTRODE NO. 4, DATE Sept. 19, 1975

PAGE 3

HEINRICHS GEOEX

SEND	1-2	6-7	5-6	4-5	3-4	2-3	6-7	5-6	4-5	3-4
RECEIVE	→	5-6E	→	→	→	→	6-7E	→	→	→
MULTIPLIER	0.1	1.0	1.0	1.0	0.1	0.1	1.0	1.0	1.0	1.0
PFE	+2.1	+.7	+.8	+2.4	+1.7	+1.9	+1.1	+1.2	+2.8	+3.1
CUR. (AMPS)	1	1.5	1.5	1.5	1.5	1	1.5	1.5	1.5	1.5
POINT NO.										
SEP. (n)										
H. F. MV	5.78	51.6	63.4	28.2	8.14	6.58	36.0	62.3	31.9	10.3
DRIFT	0	0	0	0	0	0	0	0	0	-.2
1.0 PFE K_n/1000	16.8	1.2	3	6	10.5	16.8	3	6	10.5	16.8
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	2.1	0.7	0.8	2.4	1.7	1.9	1.1	1.2	2.8	3.2
3.0 MV $\rho/2\pi$	186	79	243	216	109	212	138	477	428	221
DRIFT MCF	22	17	61.3	21	30	17	15	4.8	13	28
S. P.		+19.4					+17.3			
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 1040, AREA Pony Rich

LINE DON/S, HALF F, SR. 1, a = 100', BEARING E/W

SENDER STA. 00 E/W = ELECTRODE NO. 4, DATE SEPT. 19, 1975

PAGE 4

HEINRICHS GEOEX

SEND		6-7	5-6	4-5							
RECEIVE		7-8 E	→	→							
MULTIPLIER		1.0	1.0	1.0							
PFE		+1.6	+1.6	+3.4							
CUR. (AMPS)		1.5	1.5	1.5							
POINT NO.											
SEP. (n)											
H. F. MV		20.4	41.6	22.8							
DRIFT		0	0	0							
1.0 PFE	$K_n/1000$	6	10.5	16.8							
0.3 PFE	ρ_{CAL}										
0.1 PFE	PFE_c	1.6	1.6	3.4							
3.0 MV	$\rho/2\pi$	156	558	489							
DRIFT	MCF	20	5.5	13							
S. P.		+25.4									
NOISE											
POT RES.											
CULT & CMTS											

I. P. RECEIVER NOTES, JOB NO. 104J, AREA Pennykirk

LINE 00NS, HALF W, SR. 1, a = 100, BEARING E/W

SENDER STA. 00E/a = ELECTRODE NO. 4, DATE Sept. 22, 1975

PAGE 5

HEINRICHS GEOEX

SEND	SP	SP	3-4	4-5	5-6	6-7	2-3	3-4	4-5	5-6
RECEIVE	0-1W	1-2W	2-3W	→	→	→	3-4W	→	→	→
MULTIPLIER	—	—	10	1.0	1.0	1.0	10	1.0	1.0	1.0
PFE	—	—	+1.8	+2.6	+2.5	+2.5	+2.0	+1.3	+2.7	+2.5
CUR. (AMPS)			1.5	1.5	1.5	1.5	.75	1.5	1.5	1.5
POINT NO.										
SEP. (n)										
H. F. MV	—	—	162	75.2	52.0	14.0	341	80.5	55.0	43.8
DRIFT	—	—	-.2	0	0	0	0	-.2	0	0
1.0 PFE $K_n/1000$			0.3	1.2	3	6	0.3	1.2	3	6
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_C			1.7	2.4	2.3	2.3	1.8	1.2	2.5	2.3
3.0 MV $\rho/2\pi$			62	115	199	107	261	173	211	336
DRIFT MCF			53	40	22	41	13	19	23	13
S. P.	+5.9	-8.4	+30.2				+12.8			
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 1040, AREA Pennyrich

LINE 00W'S, HALF W, SP. 1, a = 100', BEARING E/W

SENDER STA. 00E/W ELECTRODE NO. 4, DATE Sept. 22, 1975

PAGE 6

HEINRICHS GEOEX

SEND		6-7	1-2	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4
RECEIVE		→	4-5 W	→	→	→	→	→	5-6 W		
MULTIPLIER		1.0	10	10	1.0	1.0	1.0	0.1	10	1.0	1.0
PFE		+2.6	+2.7	+2.4	+1.6	+2.7	+2.5	+1.7	+2.1	+1.5	+1.3
CUR. (AMPS)		1.5	0.75	1	1.5	1.5	1.5	1.5	1.5	1	1.5
POINT NO.											
SEP. (n)											
H. F. MV		12.5	19.8	130	34.2	28.5	24.3	6.97	182	83.5	27.4
DRIFT		0	0	0	-.2	0	0	0	0	+.2	0
1.0 PFE	$K_n/1000$	10.5	0.3	1.2	3	6	10.5	16.8	1.2	3	6
0.3 PFE	ρ_{CAL}										
0.1 PFE	PFE_C	2.4	2.0	2.2	1.5	2.5	2.3	1.5	1.9	1.2	1.1
3.0 MV	$\rho/2\pi$	168	152	299	131	218	326	149	279	480	210
DRIFT	MCF	27	25	14	22	22	14	19	13	4.8	10
S. P.			+17.3						+17.3		
NOISE											
POT RES.											
CULT & CMTS											

I. P. RECEIVER NOTES, JOB NO. 1040, AREA Penn Rich.

LINE 00 N/S HALF W, SR. 1, a = 100', BEARING E/W

SENDER STA. 00 E/W = ELECTRODE NO. 4, DATE Sept 22, 1955

PAGE 7

HEINRICHS GEOEX

SEND	4-5	5-6	1-2	2-3	3-4	4-5	1-2	2-3	3-4	101
RECEIVE	→	→	6-7W	→	→	→	7-8W	→	→	1-2
MULTIPLIER	1.0	1.0	1.0	1.0	0.1	0.1	1.0	1.0	0.1	1.0
PFE	+2.5	+2.1	+2.4	+2.3	+1.8	+2.9	+2.2	+1.9	+1.3	+.2
CUR. (AMPS)	1.5	→	→	→	→	→	→	→	→	0.5
POINT NO.										
SEP. (n)										
H. F. MV	25.5	23.7	40.5	33.3	8.57	8.90	20.9	18.1	4.92	54.9
DRIFT	0	0	0	0	0	0	0	0	0	0
1.0 PFE K_n/1000	10.5	16.8	3	6	10.5	16.8	6	10.5	16.8	
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	2.3	1.9	2.2	2.1	1.6	2.7	2.0	1.7	1.1	
3.0 MV $\rho/2\pi$	242	508	155	255	114	191	160	243	106	
DRIFT MCF	13	7.2	27	16	27	27	24	13	20	
S. P.			+24.0				+23.3			
NOISE										
POT RES.										
CULT & CMTS										

I. P. SENDER NOTES

JOB No. 1040 AREA PENNY RICH

LINE 00 N.S. HALF EAST, SP. 1, DATE 9/19/75

PAGE 1

HEINRICHS GEOEX

SEND	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	5-6
RECEIVE										
RANGE	X10+200	X10+150	X10+200	X10+200	X10+150	X10+200	X10+200	X10+200	X10+150	X10+200
VOLTAGE	280	290	170	280	300	120	180	280	300	100
CURRENT	2	1.5	2	2	1.5	2	2	2	1.5	2
SEND	4-5	3-4	2-3	1-2	CA 6-7	6-7	5-6	CA 6-7	6-7	5-6
RECEIVE										
RANGE	X10+200	X10+200	X10+200	X10+200	X10+100	X10+100	X10+150	X10+100	X10+100	X10+100
VOLTAGE	130	180	280	340	40	50	80	50	50	50
CURRENT	2	2	2	2	1	1	1.5	1	1	1

FREQUENCIES

SENDER No.

OPERATOR TED MERIKLE

RECEIVER No.

OPERATOR BILL HURLEY

COMMENTS:

SCALE 1.0—0.1

9/20/75 REPEAT

I. P. SENDER NOTES

PAGE 2

HEINRICHS GEOEX

JOB No. 1040 AREA PENNY RICH

LINE 00 N.S., HALF ~~WEST~~ EAST, SP. 1, DATE 9/22/75

SEND	6-7	5-6	4-5	3-4	2-3	~~1-2~~	1-2	6-7	5-6	4-5
RECEIVE										
RANGE	X10+150	X10+150	X10+150	X10+150	X10+150	~~X10+150~~	X10+100	X10+150	X10+150	X10+150
VOLTAGE	120	190	240	370	500	~~680~~	500	120	190	240
CURRENT	1.5	1.5	1.5	1.5	1.5	~~1.5~~	1	1.5	1.5	1.5
SEND	3-4	2-3	6-7	5-6	4-5	3-4	6-7	5-6	4-5	~~3-4~~
RECEIVE										
RANGE	X10+150	X10+100	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150	~~X10+150~~
VOLTAGE	380	400	130	200	250	400	120	180	240	~~400~~
CURRENT	1.5	1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	~~1.5~~

FREQUENCIES

SENDER No.

OPERATOR TED MERIKLE

RECEIVER No.

OPERATOR BILL HURLEY

COMMENTS:

I. P. SENDER NOTES

JOB No. 1040 AREA PENNY RICH

LINE 00N.S. HALF WEST, SP. 1, DATE 9/22/75

PAGE 1

HEINRICHS GEOEX

SEND	3-4	4-5	5-6	6-7	2-3	3-4	4-5	5-6	6-7	~~C.A. 1-2~~
RECEIVE										
RANGE	X10+150	X10+150	X10+150	X10+150	X10+100	X10+150	X10+150	X10+150	X10+150	~~X10+100~~
VOLTAGE	400	260	200	140	300	420	260	200	140	~~500~~
CURRENT	1.5	1.5	1.5	1.5	.75	1.5	1.5	1.5	1.5	~~1~~
SEND	C.A. 1-2	1-2	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4
RECEIVE										
RANGE	X10+50	X10+75	X10+100	X10+150	X10+150	X10+150	X10+150	X10+150	X10+100	X10+150
VOLTAGE	280	400	300	360	200	200	140	380	300	220
CURRENT	.50	.75	1	1.5	1.5	1.5	1.5	1.5	1	1.5

FREQUENCIES

SENDER No.

OPERATOR TED MERIKLE

RECEIVER No.

OPERATOR BILL HURLEY

COMMENTS:

I. P. SENDER NOTES

JOB No. 1040 AREA PENNY RICH

LINE 00N.5, HALF WEST, SP. 1, DATE 9/22/75

PAGE 2

HEINRICHS GEOEX

SEND	4-5	5-6	1-2	2-3	3-4	4-5	1-2	2-3	3-4	
RECEIVE										
RANGE	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150	
VOLTAGE	200	200	500	440	300	220	500	440	300	
CURRENT	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES

SENDER No.

OPERATOR TED MERIKLE

RECEIVER No.

OPERATOR BILL HURLEY

COMMENTS: 9/23/75

I.P. RECEIVER NOTES, JOB No. 1040, AREA Pennypick

LINE 3N, HALF E, SP. 1, a = 1001, BEARING E/W

SENDER STA. 00 E/W = ELECTRODE No. 4, DATE Sept. 23, 1975

PAGE 1

HEINRICHS GEOEX

SEND	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	[illegible]
RECEIVE	0-15	→	1-2E	→	→	2-3E	→	→	→	6-7
MULTIPLIER	10	10	10	1.0	1.0	10	1.0	1.0	1.0	10
PFE	+3.0	+3.5	+2.3	[illegible]	+1.8	[illegible]	+2.0	+2.0	+2.1	+.6
CUR. (AMPS)	1.5	→	→	→	→	→	→	→	→	1.0
POINT No.										
SEP. (n)										
H. F. MV	189	115	214	61.1	48.5	189	44.5	17.0	15.5	115
DRIFT	0	0	0	0	0	0	0	0	0	0
1.0 PFE K_n/1000	.3	1.2	1.3	1.2	3	.3	1.2	3	6	
0.3 PFE ρ_{CAL}	x1.915									
0.1 PFE PFE_c										
3.0 MV $\rho/2\pi$	63	153	71	81	161	63	59	57	103	
DRIFT MCF	91	44	62	40	21	33	65	67	39	
S. P.	+13.7		+22.5			+8.6				
NOISE										
POT RES.										
CULT & CMTS										

I.P. RECEIVER NOTES, JOB No. 1040, AREA Pennyrich

LINE 3N, HALF E, SP. 1, a = 100', BEARING E/W

SENDER STA. 00E/W = ELECTRODE No. 4, DATE Sept 25, 1975

PAGE 2

HEINRICHS GEOEX

SEND	5-6	4-5	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3
RECEIVE	3-4E	→	→	→	→	4-5E	→	→	→	→
MULTIPLIER	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1
PFE	+.2	+.6	+2.0	+2.1	+2.3	+.2	+.2	+1.0	+7.3	+1.5
CUR. (AMPS)	1	1.5	→	→	→	1	1	1.5	1.5	1.5
POINT No.										
SEP. (n)										
H. F. MV	92.0	74.6	25.3	10.8	10.5	41.4	41.2	43.0	16.8	7.43
DRIFT	0	0	0	0	0	0	0	0	0	0
1.0 PFE K_n/1000	.3	1.2	3	6	10.5	.3	1.2	3	6	10.5
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c										
3.0 MV $\rho/2\pi$	46	99	84	72	122	21	82	143	112	87
DRIFT MCF	0.3	12	46	56	36	18	47	13	39	33
S. P.	+19.1					+10.5				
NOISE										
POT RES.										
CULT & CMTS										

I.P. RECEIVER NOTES, JOB NO. 1040, AREA PONNARAK

LINE 3N, HALF E, SP. 1, a = 100', BEARING E/W

SENDER STA. 00E/W = ELECTRODE NO. 4, DATE SEPT. 23, 1975

PAGE 3

HEINRICHS GEOEX

SEND	1-2	6-7	5-6	4-5	3-4	2-3	6-7	5-6	4-5	3-4
RECEIVE	→	5-6	E →				6-7E	→		
MULTIPLIER	0.1	1.0	1.0	1.0	1.0	0.8	1.0	1.0	1.0	1.0
PFE	+1.6	+1.6	+1.6	~~+1.6~~	+2.4	+1.7	+1.312	+1.3	+2.0	+3.1
CUR. (AMPS)	1.5	1	1	+1.3 1	1.5	1.5	1	1	1.5	1.5
POINT NO.										
SEP. (n)										
H. F. MV	7.47	23.2	32.4	26.4	16.0	7.49	27.5	44.2	55.2	24.4
DRIFT	0	0	0	0	0	0	+.2	0	0	0
1.0 PFE / K_n/1000	16.8	1.2	3	6	10.5	16.8	3	6	10.5	16.8
0.3 PFE / ρ_{CAL}										
0.1 PFE / PFE_c										
3.0 MV / $\rho/2\pi$	139	46	162	264	187	140	137	442	643	455
DRIFT / MCF	22	25	7.1	9.9	25	23	17	5.6	6.0	13
S. P.		+14.8					+20.3			
NOISE										
POT RES.										
CULT & CMTS										

I.P. RECEIVER NOTES, JOB No. 1040, AREA Pony Rich

LINE 3N, HALF E, SR 1, a = 100', BEARING E/W

SENDER STA. 60 E/W = ELECTRODE No. 4, DATE SEPT. 23, 1975

PAGE 4

HEINRICHS GEOEX

SEND	6-7	5-6	4-5								
RECEIVE	7-8E	→	→								
MULTIPLIER	1.0	1.0	1.0								
PFE	+1.87	+1.6	+2.3								
CUR. (AMPS)	1	1	1.5								
POINT NO.											
SEP. (n)											
H. F. MV	12.5	21.2	27.2								
DRIFT	+.2	0	0								
1.0 PFE $K_n/1000$	6	10.5	16.8								
0.3 PFE ρ_{CAL}											
0.1 PFE PFE_c											
3.0 MV $\rho/2\pi$	125	311	507								
DRIFT MCF	2.8	8.3	8.7								
S. P.	+16.7										
NOISE											
POT RES.											
CULT & CMTS											

I. P. RECEIVER NOTES, JOB NO. 6040, AREA Penny Rich

LINE 3N, HALF W, SR 1, a = 100', BEARING E/W

SENDER STA. 00E/W = ELECTRODE NO. 4, DATE Sept. 23, 1975

PAGE 5

HEINRICHS GEOEX

SEND	SP	SP	3-4	4-5	5-6	6-7	2-3	3-4	4-5	5-6
RECEIVE	0-1W	1-2W	2-3W				3-4W			
MULTIPLIER	—	—	10	1.0	1.0	1.0	10	1.0	1.0	1.0
PFE	—	—	+1.8	+2.3	+2.0	+2.3	+1.9	+1.6	+2.5	+2.3
CUR. (AMPS)			1.5	1.5	1	1	1.5	1.5	1.5	1
POINT NO.										
SEP. (n)										
H. F. MV	—	—	330	98.6	35.3	10.4	225	77.5	39.0	16.3
DRIFT	—	—	0	0	0	0	0	0	0	0
1.0 PFE $K_n/1000$			.3	1.2	3	6	.3	1.2	3	6
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c										
3.0 MV $\rho/2\pi$			110	131	176	104	75	103	130	163
DRIFT MCF			31	34	22	42	49	30	37	27
S. P.	+25.9	+17.5	+13.2				+26.8			
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 1000, AREA Pony Rock

LINE 3N, HALF W, SR. 1, a = 200', BEARING E/W

SENDER STA. 00E/W = ELECTRODE NO. 4, DATE SEPT. 23, 1975

PAGE 6

HEINRICHS GEOEX

SEND	6-7	1-2	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4
RECEIVE	→	4-5W					→	5-6W		
MULTIPLIER	0.1	10	10	1.0	1.0	1.0	0.1	10	1.0	1.0
PFE	+1.4	+1.8	+2.0	+1.7	+2.7	+2.5	+1.6	+2.2	+1.4	+2.0
CUR. (AMPS)	1.5	2	2	1.5	1.5	1	1	2	2	1.5
POINT NO.										
SEP. (n)										
H. F. MV	7.26	603	158	57.7	34.5	15.7	5.09	157	56.7	25.2
DRIFT	0	0	0	0	0	0	0	0	0	0
1.0 PFE K_n/1000	10.5	.3	1.2	3	6	10.5	16.8	1.2	3	6
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c										
3.0 MV $\rho/2\pi$	85	151	158	192	230	275	142	157	142	168
DRIFT MCF	32	23	24	17	22	16	22	27	19	23
S. P.		+53.2						+46.9		
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 1040, AREA Pennyrich

LINE 3N, HALF W, SP. 1, a = 100', BEARING E/W

SENDER STA. 00E/W = ELECTRODE NO. 4, DATE SEPT. 23, 1975

PAGE 7

HEINRICHS GEOEX

SEND	4-5	5-6	1-2	2-3	3-4	4-5	1-2	2-3	3-4	4-5
RECEIVE	→	→	6-7 W	→	→	→	7-8 W	→	→	1-2
MULTIPLIER	1.0	0.1	1.0	1.0	1.0	0.1	1.0	1.0	0.1	1.0
PFE	+2.9	+1.7	+2.0	+1.8	+2.5	+2.5	+1.6	+2.0	+1.7	+2
CUR. (AMPS)	1.5	1	2	2	1.5	1	2	2	1.5	1.0
POINT NO.										
SEP. (n)										
H. F. MV	180	8.47	56.4	23.1	11.3	5.84	33.8	14.9	7.66	11.5
DRIFT	0	0	+.2	0	0	-.2	-.2	0	0	0
1.0 PFE K_n/1000	10.5	16.8	3	6	10.5	16.8	6	10.5	16.8	
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c										
3.0 MV $\rho/2\pi$	210	237	141	115	132	163	169	130	143	
DRIFT MCF	26	14	26	36	36	31	19	29	23	
S. P.			+18.8				+41.5			
NOISE										
POT RES.							SPIKES TO +		SIDE	
CULT & CMTS							DRIFT TO −		SIDE	

I.P. SENDER NOTES

JOB No. 1040 AREA PENNY RICH

LINE 3N, HALF EAST, SP. 1, DATE 9/23/75

PAGE 1

HEINRICHS GEOEX

SEND	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	5-6
RECEIVE										
RANGE	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150	X10+100
VOLTAGE	360	460	200	360	460	140	200	360	460	60
CURRENT	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1
SEND	4-5	3-4	2-3	1-2	5-7	6-7	5-6	4-5	3-4	2-3
RECEIVE										
RANGE	X10+150	X10+150	X10+150	X10+150	X10+100	X10+100	X10+100	X10+150	X10+150	X10+150
VOLTAGE	140	210	370	460	50	50	60	140	210	370
CURRENT	1.5	1.5	1.5	1.5	1	1	1	1.5	1.5	1.5

FREQUENCIES

SENDER No.

OPERATOR TED MERIKLE

RECEIVER No.

OPERATOR BILL HURLEY

COMMENTS:

I.P. SENDER NOTES

JOB No. 1040 AREA PENNY RICH

LINE 3, HALF EAST, SP. 1, DATE 9/23/75

PAGE 2

HEINRICHS GEOEX

SEND	1-2	6-7	5-6	4-5	3-4	2-3	6-7	5-6	4-5	3-4
RECEIVE										
RANGE	X10+150	X10+100	X10+100	X10+100	X10+150	X10+150	X10+100	X10+100	X10+150	X10+150
VOLTAGE	460	50	60	100	210	380	50	60	140	210
CURRENT	1.5	1	1	1	1.5	1.5	1	1	1.5	1.5
SEND	6-7	5-6	4-5							
RECEIVE										
RANGE	X10+100	X10+100	X10+150							
VOLTAGE	50	60	140							
CURRENT	1	1	1.5							

FREQUENCIES

SENDER No.

OPERATOR TED MERIKLE

RECEIVER No.

OPERATOR BILL HURLEY

COMMENTS:

I. P. SENDER NOTES

JOB NO. 1040 AREA PENNY RICH

LINE 3N, HALF WEST, SP. 1, DATE 9/23/75

PAGE 1

HEINRICHS GEOEX

SEND	3-4	4-5	5-6	6-7	2-3	3-4	4-5	5-6	6-7	6-7
RECEIVE										
RANGE	X10+150	X10+150	X10+100	X10+100	X10+150	X10+150	X10+150	X10+100	X10+100	X10+150
VOLTAGE	210	140	60	50	380	210	140	60	50	80
CURRENT	1.5	1.5	1	1	1.5	1.5	1.5	1	1	1.5
SEND	CA 1-2	1-2	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4
RECEIVE										
RANGE	X10+100	X10+200	X10+200	X10+150	X10+150	X10+100	X10+100	X10+200	X10+200	X10+150
VOLTAGE	380	520	410	200	140	60	60	500	400	200
CURRENT	1	2	2	1.5	1.5	1	1	2	2	1.5

FREQUENCIES

SENDER NO.

OPERATOR TED MERIKLE

RECEIVER NO.

OPERATOR BILL HURLEY

COMMENTS:

9/24/75

6-7 REPEAT

I. P. SENDER NOTES

JOB No. 1040 AREA PENNY RICH

LINE 3N, HALF WEST, SP. 1, DATE 9/24/75

PAGE 2

HEINRICHS GEOEX

SEND	4-5	5-6	1-2	2-3	3-4	4-5	1-2	2-3	3-4	
RECEIVE										
RANGE	X10+150	X10+100	X10+200	X10+200	X10+150	X10+100	X10+200	X10+200	X10+150	
VOLTAGE	140	60	500	400	170	100	500	400	170	
CURRENT	1.5	1	2	2	1.5	1	2	2	1.5	
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES

SENDER No.

OPERATOR TED MERIKLE

RECEIVER No.

OPERATOR BILL HURLEY

COMMENTS:

I. P. RECEIVER NOTES, JOB NO. 1040, AREA Penny Pick

LINE 35, HALF E, SR. 1, a = 100', BEARING E/W

SENDER STA. 00EW = ELECTRODE NO. 4, DATE Sept. 18, 1975

PAGE 1

HEINRICHS GEOEX

SEND	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-5	1-2	CAL
RECEIVE	0-1E	→	1-2E	→	→	2-3E	→	→	→	6-7
MULTIPLIER	10	1.0	10	10	1.0	10	10	1.0	1.0	1.0
PFE	+1.7	+1.9	+3.4	+3.3	+2.5	+.8	+3.0	+1.9	+2.1	-.4
CUR. (AMPS)	2	→	→	→	→	→	→	→	→	1.0
POINT NO.										
SEP. (n)										
H. F. MV	268	94.1	361	153	77.5	101.0	142	84.4	50.5	99.7
DRIFT	0	0	±0	0	0	-.2	0	0	0	0
1.0 PFE / K_n/1000	0.3	1.2	0.3	1.2	3	0.3	1.2	3	6	
0.3 PFE / ρ_{CAL}										
0.1 PFE / PFE_c	1.7	1.9	3.4	3.3	2.5	0.9	3.0	1.9	2.1	
3.0 MV / $\rho/2\pi$	77	108	104	176	223	290	163	242	290	
DRIFT / MCF	42	34	63	36	22	5.9	35	15	14	
S. P.	-6.8		+11.9			+8.7				
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 1040, AREA Pendy Rich

LINE 3S, HALF E, SR. 1, a = 1001, BEARING E/W

SENDER STA. 00 E/W = ELECTRODE NO. 4, DATE SEPT. 18, 1955

PAGE 2

HEINRICHS GEOEX

SEND	5-6	4-5	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3
RECEIVE	3-4 E	→	→	→	→	4-5 E	→	→	→	→
MULTIPLIER	10	10	1.0	1.0	1.0	10	1.0	1.0	1.0	1.0
PFE	+.9	+1.5	+1.8	+1.6	+2.0	+1.3	+1.1	+1.1	+2.2	+2.3
CUR. (AMPS)	2	→	→	→	→	1	1	2	→	→
POINT NO.										
SEP. (n)										
H. F. MV	695	174	41.9	32.1	21.8	237	68.4	44.1	15.9	13.9
DRIFT	0	0	0	0	0	0	0	-.2	0	0
1.0 PFE / K_n/1000	0.3	1.2	3	6	10.5	0.3	1.2	3	6	10.5
0.3 PFE / ρ_{CAL}										
0.1 PFE / PFE_c	0.9	1.5	1.8	1.6	2.0	1.3	1.1	1.2	2.2	2.3
3.0 MV / $\rho/2\pi$	+200	200	120	184	219	136	157	127	91	140
DRIFT / MCF	8.6	14	29	17	17	18	13	18	46	32
S. P.	+19.9					+2.8				
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 1040, AREA Penny Lick.

LINE 35, HALF E, SP. 1, a = 100', BEARING E/W

SENDER STA. 00E/W = ELECTRODE NO. 4, DATE Sept. 18, 1975

PAGE 3

HEINRICHS GEOEX

SEND	1-2	6-7	5-6	4-5	3-4	2-3	6-7	5-6	4-5	3-4
RECEIVE	→	5-6 E	→	→	→	→	6-7 E	→	→	→
MULTIPLIER	1.0	10	1.0	1.0	0.1	0.1	1.0	1.0	1.0	0.1
PFE	+2.5	+1.8	+1.2	+1.9	+2.9	+1.3	+1.5	+1.2	+1.9	+1.5
CUR. (AMPS)	2	—	—	—	1.7	1.6	—	—	—	→
POINT NO.										
SEP. (n)										
H. F. MV	10.3	113	46.8	18.5	8.90	8.78	79.4	38.9	15.9	8.72
DRIFT	0	0	0	-.2	+.3	0	0	0	-.2	+.2
1.0 PFE K_n/1000	16.8	1.2	3	6	10.5	16.8	3	6	10.5	16.8
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	2.5	1.8	1.2	2.0	2.58	1.3	0.5	1.2	2.0	1.45
3.0 MV $\rho/2\pi$	166	130	134	106	89	141	228	223	160	148
DRIFT MCF	27	27	17	36	69	18	4.2	10	24	19
S. P.		+11.1					+3.7			
NOISE										
POT RES.										
CULT & CMTS	OK 9-19-75				OK 9-19-75	OK 9-19-75				

I. P. RECEIVER NOTES, JOB NO. 1040, AREA Penny Rich

LINE 3S, HALF E, SR. 1, a = 100', BEARING E/W

SENDER STA. 00 E/W = ELECTRODE NO. 4, DATE SEPT. 18, 1975

PAGE 4

HEINRICHS GEOEX

SEND		6-7	5-6	4-5							
RECEIVE		7-8E	→	→							
MULTIPLIER		1.0	1.0	1.0							
PFE		+.8	1.7	+2.5							
CUR. (AMPS)		2	→	→							
POINT NO.											
SEP. (n)											
H. F. MV		38.0	21.9	10.2							
DRIFT		-.2	+.2	-.4							
1.0 PFE	K_n/1000	6	10.5	16.8							
0.3 PFE	ρ_{CAL}										
0.1 PFE	PFE_c	0.9	1.6	2.7							
3.0 MV	$\rho/2\pi$	218	220	164							
DRIFT	MCF	7.9	14	32							
S. P.											
NOISE											
POT RES.											
CULT & CMTS											

I. P. RECEIVER NOTES, JOB NO. 1040, AREA Penny Kich

LINE 3S, HALF W, SR. 1, a = 100', BEARING E/W

SENDER STA. 00EW = ELECTRODE NO. 4, DATE Sept. 18, 1975

HEINRICHS GEOEX

PAGE 5

SEND	S.P	S.P	3-4	4-5	5-6	6-7	2-3	3-4	4-5	5-6
RECEIVE	0-1W	1-2W	2-5W	→	→	→	3-4W	→	→	→
MULTIPLIER	—	—	10	1.0	1.0	1.0	10	10	1.0	1.0
PFE	—	—	+1.2	+1.9	+2.8	+2.0	+1.0	+1.3	+1.9	+2.5
CUR. (AMPS)			2	→	→	→	→	→	→	→
POINT NO.										
SEP. (n)										
H. F. MV	—	—	680	98.5	76.7	50.6	861	255	57.9	53.2
DRIFT	—	—	0	±0	0	0	0	0	-.2	0
1.0 PFE / K_n/1000			0.3	1.2	3	6	0.3	1.2	3	6
0.3 PFE / ρ_{CAL}										
0.1 PFE / PFE_c			1.2	1.9	2.8	2.0	1.0	1.3	2.0	2.5
3.0 MV / $\rho/2\pi$			195	113	220	291	247	293	166	306
DRIFT / MCF			12	32	24	13	7.7	8.5	23	16
S. P.	+1.6	-16.9	+1.8				-6.3			
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 1040, AREA Penny Rich

LINE 3S, HALF W, SR. 1, a = 1001, BEARING E/W

SENDER STA. 00E/W = ELECTRODE NO. 4, DATE SEPT. 18, 1975

PAGE 6

HEINRICHS GEOEX

SEND	6-7	1-2	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-7
RECEIVE	→	4-5W	—	—	—	—	→	5-6W	—	—
MULTIPLIER	1.0	10	10	1.0	1.0	1.0	1.0	10	1.0	1.0
PFE	+1.9	+1.5	12.1	+1.1	+1.7	+2.5	+1.9	+1.8	+1.0	+1.0
CUR. (AMPS)	2	1	1	1	2	→	→	→	→	→
POINT NO.										
SEP. (n)										
H. F. MV	37.0	28.4	104	41.2	24.8	25.9	19.6	170	76.1	34.1
DRIFT	0	0	0	0	-.4	0	0	0	0	0
1.0 PFE $K_n/1000$	10.5	0.3	1.2	3	6	10.5	16.8	1.2	3	6
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	1.9	1.5	2.1	1.1	1.59	2.95	1.9	1.8	1.0	1.0
3.0 MV $\rho/2\pi$	372	168	239	237	142	260	315	195	219	196
DRIFT MCF	9.8	18	17	8.9	26	18	12	18	8.8	9.8
S. P.		±0						+40.6		
NOISE								LARGE AMOUNT		
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 1042, AREA Pendy Kick

LINE 3S, HALF W, SP. 1, a = 100', BEARING E/W

SENDER STA. 00 E/W = ELECTRODE NO. 4, DATE Sept 18, 1975

PAGE 7

HEINRICHS GEOEX

SEND	4-5	5-6	1-2	2-3	3-4	4-5	1-2	2-3	3-4	CA1
RECEIVE	→	→	6-7W	→	→	→	7-8W	→	→	1-2
MULTIPLIER	1.0	1.0	1.0	1.0	1.0	0.1	1.0	1.0	1.0	1.0
PFE	+2.6	+2.9	+1.8?	+1.8	+2.0	+2.1	+1.7	+1.7	+1.8	+.5
CUR. (AMPS)	2	2	1.5	→	→	→	→	→	→	1.0
POINT NO.										
SEP. (n)										
H. F. MV	11.8	13.0	542	30.2	14.7	5.75	38.4	22.6	11.7	99.7
DRIFT	0	-.2	0	0	0	-.4	0	0	0	0
1.0 PFE K_n/1000	10.5	16.8	3	6	10.5	16.8	6	10.5	16.8	
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	2.6	3.0	1.8	1.8	2.0	2.3	1.7	1.7	1.8	
3.0 MV $\rho/2\pi$	119	209	215	231	197	123	221	303	251	
DRIFT MCF	42	27	16	15	19	36	15	11	14	
S. P.			+3.2				+12.0			
NOISE										
POT RES.										
CULT & CMTS										

I. P. SENDER NOTES

JOB No. 1040 AREA PENNY RICH

LINE 3 SOUTH HALF EAST, SP. 1, DATE 9/18/75

PAGE 1

HEINRICHS GEOEX

SEND	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	
RECEIVE										
RANGE	X10+200	X10+200	X10+200	X10+200	X10+200	X10+200	X10+200	X10+200	X10+200	
VOLTAGE	230	280	130	230	280	130	130	230	290	
CURRENT	2	2	2	2	2	2	2	2	2	
SEND	5-6	4-5	3-4	2-3	1-2	~~6-7~~ CA	6-7 CA	6-7	5-6	4-5
RECEIVE										
RANGE	X10+200	X10+200	X10+200	X10+200	X10+200	~~X10+100~~	X10+100	X10+100	X10+100	X10+200
VOLTAGE	270	150	130	230	280	~~150~~	90	90	100	160
CURRENT	2	2	2	2	2	~~1~~	1	1	1	2

FREQUENCIES

SENDER No.

OPERATOR TED MERIKLE

RECEIVER No.

OPERATOR BILL HURLEY

COMMENTS:

I. P. SENDER NOTES

JOB No. 1040 AREA PENNY RICH

LINE 3 SOUTH, HALF EAST, SP. _____, DATE 9/18/75

PAGE 2

HEINRICHS GEOEX

SEND	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3	6-7	
RECEIVE										
RANGE	X10+200	X10+200	X10+200	X10+200	X10+200	X10+200	X10+200	X10+200	X10+200	
VOLTAGE	140	240	280	180	200	170	140	240	180	
CURRENT	2	2	2	2	2	2	2	2	2	
SEND	5-6	4-5	3-4	6-7	5-6	4-5				
RECEIVE										
RANGE	X10+200	X10+200	X10+200	X10+200	X10+200	X10+200				
VOLTAGE	200	180	150	180	220	200				
CURRENT	2	2	2	2	2	2				

FREQUENCIES

SENDER No.

OPERATOR TED MERIKLE

RECEIVER No.

OPERATOR BILL HURLEY

COMMENTS:

I. P. SENDER NOTES

JOB No. 1040 AREA PENNY RICH

LINE 3 SOUTH HALF WEST, SP. 1, DATE 9/18/75

PAGE 1

HEINRICHS GEOEX

SEND	3-4	4-5	5-6	6-7	2-3	3-4	4-5	5-6	6-7	CA 1-2
RECEIVE										
RANGE	X10+200	X10+200	X10+200	X10+200	X10+200	X10+200	X10+200	X10+200	X10+200	X10+100
VOLTAGE	180	230	270	180	250	180	250	270	180	150
CURRENT	2	2	2	2	2	2	2	2	2	1
SEND	1-2	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5
RECEIVE										
RANGE	X10+100	X10+100	X10+100	X10+200	X10+200	X10+200	X10+200	X10+200	X10+200	X10+200
VOLTAGE	150	130	90	250	280	190	300	250	150	230
CURRENT	1	1	1	2	2	2	2	2	2	2

FREQUENCIES

SENDER No.

OPERATOR TED MERIKLE

RECEIVER No.

OPERATOR BILL HURLEY

COMMENTS:

I. P. SENDER NOTES

JOB No. 1040 AREA PENNY RICH

LINE 3 SOUTH HALF WEST, SP. 1, DATE 9/18/75

PAGE 2

HEINRICHS GEOEX

SEND	5-6	1-2	2-3	3-4	1-2	2-3	3-4	4-5	1-2	2-3
RECEIVE										
RANGE	X10+200	X10+200	X10+200	X10+200	X10+150	X10+150	X10+150	X10+150	X10+150	X10+150
VOLTAGE	320	300	250	150	260	220	130	120	270	230
CURRENT	2	2	2	2	1.5	1.5	1.5	1.5	1.5	1.5
SEND	3-4									
RECEIVE										
RANGE	X10+150									
VOLTAGE	130									
CURRENT	1.5									

FREQUENCIES

SENDER No.

OPERATOR TED MERIKLE

RECEIVER No.

OPERATOR BILL HURLEY

COMMENTS: 9/19/75

~~EAST REPEAT~~

I. P. RECEIVER NOTES, JOB NO. 1040, AREA Binghamton

LINE QN, HALF E, SR 1, a = 100, BEARING E/W

SENDER STA. 00FN = ELECTRODE NO. 4, DATE AUG 20, 1975

PAGE 1

HEINRICHS GEOEX

SEND	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	CAL
RECEIVE	0-1 E	→	1-2 E	→	→	2-3 E	→	→	→	6-7
MULTIPLIER	10	1.0	10	1.0	1.0	10	1.0	1.0	1.0	1.0
PFE	-.5	+1.1	+.2	+1.5	+1.3	-1.0	+1.6	+1.3	+1.1	-.1
CUR. (AMPS)	.75	→	→	→	→	→	→	→	→	1.0
POINT NO.										
SEP. (n)										
H. F. MV	221	71.6	216	80.5	35.4	319	89.1	45.8	24.5	97.3
DRIFT	0	0	0	0	0	0	0	0	0	0
1.0 PFE K_n/1000	.3	1.2	.3	1.2	3	.3	1.2	3	6	
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	-0.4	1.2	0.3	1.6	1.4	-0.9	1.7	1.4	1.2	
3.0 MV $\rho/2\pi$	90	117	88	132	145	130	146	187	200	
DRIFT MCF	-4.4	1.0	3.4	12	9.7	-6.9	12	7.5	6.0	
S. P.	+1.6		+3.5			[redacted]1.3				
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 1040, AREA King Hampton

LINE BN, HALF E, SR. 1, a = 100', BEARING E/W

SENDER STA. 00EW = ELECTRODE No. 4, DATE Aug 20, 1975

PAGE 2

HEINRICHS GEOEX

SEND	5-6	4-5	3-4	2-3	1-2	6-7	5-6	4-5	3-4	2-3
RECEIVE	3-4 E					4-5 E				
MULTIPLIER	10	10	1.0	1.0	1.0	10	10	1.0	1.0	1.0
PFE	±0	-.2	+2.2	+1.9	+1.7	+.4	+.6	+.6	+1.5	+1.2
CUR. (AMPS)	1	1	.75	.75	.75	1	1	1	.75	.75
POINT No.										
SEP. (n)									22.4	
H. F. MV	469	128	38.5	22.8	12.8	750	147	60.6	~~46.9~~	14.3
DRIFT	0	0	0	0	0	0	0	0	0	0
1.0 PFE K_n/1000	.3	1.2	3	6	10.5	.3	1.2	3	6	10.5
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	0.1	-0.1	2.3	2.0	1.8	0.5	0.7	0.7	1.6	1.3
3.0 MV $\rho/2\pi$	144	157	157	182	183	224	180	186	183	205
DRIFT MCF	0.70	0.64	15	11	9.8	2.2	3.9	3.8	8.7	6.4
S. P.	-1.3									
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB No. 1040, AREA Bing Hamilton

LINE 0N, HALF E, SR. 1, a = 1001, BEARING E/W

SENDER STA. 00EW = ELECTRODE No. 4, DATE Aug 20, 1975

PAGE 3

HEINRICHS GEOEX

SEND	1-2	6-7	5-6	4-5	3-4	2-3	6-7	5-6	4-5	3-4
RECEIVE	→	5-6E	→	→	→	→	6-7E	→	→	→
MULTIPLIER	0.1	10	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1
PFE	+1.0	+.5	+.9	+.5	+1.4	+1.3	+.4	+.6	+.3	+1.1
CUR. (AMPS)	.75	1	1	1	.75	.75	.75	1	1	.75
POINT NO.										
SEP. (n)										
H. F. MV	8.99	25.9	75.1	37.2	15.9	10.8	67.9	33.6	19.9	10.1
DRIFT	0	0	0	0	0	0	0	0	0	0
1.0 PFE K_n/1000	16.8	1.2	3	6	10.5	16.8	3	6	10.5	16.8
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	1.1	0.6	1.0	0.6	1.5	1.4	0.5	0.7	0.4	1.2
3.0 MV $\rho/2\pi$	206	318	230	228	227	247	278	206	214	281
DRIFT MCF	5.3	1.9	4.3	2.8	6.6	5.7	1.8	3.4	1.9	5.2
S. P.		-7.9					+.6			
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 1040, AREA Binghamton

LINE 0N, HALF E, SP. 1, a = 100', BEARING E/W

SENDER STA. 00E/W = ELECTRODE NO. 4, DATE AUG 20, 1975

PAGE 4

HEINRICHS GEOEX

SEND	6-7	5-6	4-5							
RECEIVE	7-8 E	→	→							
MULTIPLIER	1.0	1.0	1.0							
PFE	+.6	+.9	+.6							
CUR. (AMPS)	1	1	1							
POINT NO.										
SEP. (n)										
H. F. MV	44.9	20.7	13.8							
DRIFT	0	0	0							
1.0 PFE K_n/1000	6	10.5	16.8							
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	0.7	1.0	0.7							
3.0 MV $\rho/2\pi$	275	222	237							
DRIFT MCF	2.5	4.5	3.0							
S. P.	+8.1									
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 1040 AREA _____

LINE ON, HALF W, SR. 1, a = _____, BEARING _____

SENDER STA. 00 EW = ELECTRODE NO. 1, DATE _____

HEINRICHS GEOEX

SEND	SP	SD	3-4	4-5	5-6	6-7	2-3	3-4	4-5	5-6
RECEIVE	0-1	1-2	2-3W				3-4W			
MULTIPLIER			10	1.0	1.0	1.0	10	10	1.0	1.0
PFE			+.4	+.9	+1.0	+1.0	+.5	+.7	+1.2	+1.4
CUR. (AMPS)			.75	.75	1	1	.75	.75	1	1
POINT NO.										
SEP. (n)										
H. F. MV			34.5	78.9	103.7	34.7	31.6	10.3	44.0	24.1
DRIFT			0	0	0	0	0	0	0	0
1.0 PFE K_n/1000			.3	1.2	3	6	.3	1.2	3	6
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c			0.7	1.2	1.3	1.3	0.8	1.0	1.5	1.7
3.0 MV $\rho/2\pi$			141	129	318	212	129	168	135	148
DRIFT MCF			5.0	9.3	4.1	6.1	6.2	5.9	11	12
S. P.	-.6	-5.4	+4.7				+6.9			
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 1046 AREA _____

LINE ON, HALF W, SR 1, a = 100, BEARING E/W

SENDER STA. 00EW = ELECTRODE NO. 4, DATE Aug 20 1975

PAGE 6

HEINRICHS GEOEX

SEND	6-7	1-2	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4
RECEIVE	→									
MULTIPLIER	1.0	10	10	1.0	1.0	1.0	1.0	10	1.0	1.0
PFE	+1.1	+.6	+.7	+1.0	+1.1	+1.2	+1.1	+.9	+1.1	+1.2
CUR. (AMPS)	1	.75	.75	.75	1	1	1	.75	.75	.75
POINT NO.										
SEP. (n)										
H. F. MV	18.9	48.0	116	53.1	27.7	17.1	14.7	108	49.4	28.6
DRIFT	0	0	0	0	0	0	0	0	0	0
1.0 PFE K_n/1000	10.5	.3	1.2	3	6	10.5	16.8	1.2	3	6
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	1.4	0.9	1.0	1.3	1.4	1.5	1.4	1.2	1.4	1.5
3.0 MV $\rho/2\pi$	203	196	190	217	170	154	252	177	202	234
DRIFT MCF	6.9	4.6	5.3	6.0	8.2	8.2	5.5	6.8	6.9	6.4
S. P.		-8.3						-15.6		
NOISE										
POT RES.										
CULT & CMTS										

I. P. RECEIVER NOTES, JOB NO. 1040 AREA _____

LINE ON, HALF W, SR. 1, a = 100', BEARING E/W

SENDER STA. 60EN = ELECTRODE NO. 4, DATE AUG 20 1975

PAGE 7

HEINRICHS GEOEX

SEND	4-5	5-6	1-2	2-3	3-4	4-5	1-2	2-3	3-4	AVG
RECEIVE	→	→								1-2
MULTIPLIER	1.0	1.0	1.0	1.0	1.0	1.1	1.0	1.0	1.0	1.0
PFE	+1.3	+1.5	+1.7	+1.6	+1.7	+1.6	+1.9	+1.0	+1.2	-.3
CUR. (AMPS)	1	1	.75	.75	.75	1	.75	.75	.75	0.5
POINT NO.										
SEP. (n)										
H. F. MV	16.9	11.6	45.7	24.8	16.3	9.98	31.6	18.5	12.7	49.2
DRIFT	0	0	0	0	0	0	0	0	0	0
1.0 PFE $K_n/1000$	10.5	16.8	3	6	10.5	16.8	6	10.5	16.8	
0.3 PFE ρ_{CAL}										
0.1 PFE PFE_c	1.6	1.8	2.0	1.9	2.0	1.9	1.2	1.3	1.5	
3.0 MV $\rho/2\pi$	181	199	187	203	233	171	258	266	291	
DRIFT MCF	8.8	9.0	11	9.4	8.6	11	4.6	4.9	5.2	
S. P.			-6.3				-20.1			
NOISE										
POT RES.										
CULT & CMTS										

I. P SENDER NOTES

JOB No. 1040 AREA BIG HAMPTON

LINE ON, HALF EAST, SP. _____, DATE 8/20/75

PAGE 1

HEINRICHS GEOEX

SEND	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	5-6
RECEIVE										
RANGE	X10+75	X10+75	X10+75	X10+75	X10+75	X10+75	X10+75	X10+75	X10+75	X10+100
VOLTAGE	310	310	310	320	310	250	310	320	310	200
CURRENT	.75	.75	.75	.75	.75	.75	.75	.75	.75	1
SEND	4-5	3-4	2-3	1-2	C A 6-7	6-7	5-6	4-5	3-4	2-3
RECEIVE										
RANGE	X10+100	X10+75	X10+75	X10+75	X10+100	X10+100	X10+100	X10+100	X10+75	X10+75
VOLTAGE	330	310	320	310	230	230	200	330	320	320
CURRENT	1	.75	.75	.75	1	1	1	1	.75	.75

FREQUENCIES

SENDER No.

OPERATOR TED MERIKLE

RECEIVER No.

OPERATOR BILL HURLEY

COMMENTS:

I. P. SENDER NOTES

JOB No. 1040 AREA 816 HAMPTON

LINE ON, HALF EAST, SP. _____, DATE 8/20/75

PAGE 2

HEINRICHS GEOEX

SEND	1-2	6-7	5-6	4-5	3-4	2-3	6-7	5-6	4-5	3-4
RECEIVE										
RANGE	X10+75	X10+100	X10+100	X10+100	X10+75	X10+100	X10+75	X10+100	X10+100	X10+75
VOLTAGE	310	230	200	330	320	320	180	200	330	320
CURRENT	.75	1	1	1	.75	.75	.75	1	1	.75
SEND	6-7	5-6	4-5							
RECEIVE										
RANGE	X10+100	X10+100	X10+100							
VOLTAGE	240	200	330							
CURRENT	1	1	1							

FREQUENCIES

SENDER No.

OPERATOR TED MERIKLE

RECEIVER No.

OPERATOR BILL HURLEY

COMMENTS:

I. P. SENDER NOTES

JOB No. 1040 AREA BIG HAMPTON

LINE ON, HALF WEST, SP. _____, DATE 8/20/75

PAGE 1

HEINRICHS GEOEX

SEND	3-4	4-5	5-6	6-7	P.A. 1-2	2-3	3-4	4-5	5-6	6-7
RECEIVE										
RANGE	X10+75	X10+75	X10+100	X10+100	X10+50	X10+75	X10+75	X10+100	X10+100	X10+100
VOLTAGE	320	250	330	240	210	330	320	330	200	240
CURRENT	.75	.75	1	1	.50	.75	.75	1	1	1
SEND	1-2	2-3	3-4	4-5	5-6	6-7	1-2	2-3	3-4	4-5
RECEIVE										
RANGE	X10+75	X10+75	X10+75	X10+100	X10+100	X10+100	X10+75	X10+75	X10+75	X10+100
VOLTAGE	320	320	320	330	210	240	320	330	320	330
CURRENT	.75	.75	.75	1	1	1	.75	.75	.75	1

FREQUENCIES

SENDER No.

OPERATOR TED MERIKLE

RECEIVER No.

OPERATOR BILL HURLEY

COMMENTS:

I. P. SENDER NOTES

JOB No. 1040 AREA BIG HAMPTON

LINE ON, HALF WEST, SP. _____, DATE 8/20/75

PAGE 2

HEINRICHS GEOEX

SEND	5-6	1-2	2-3	3-4	4-5	1-2	2-3	3-4		
RECEIVE										
RANGE	X10+100	X10+75	X10+75	X10+75	X10+100	X10+75	X10+75	X10+75		
VOLTAGE	210	320	330	320	330	320	330	320		
CURRENT	1	.75	.75	.75	1	.75	.75	.75		
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES

SENDER No.

OPERATOR TED MERIKLE

RECEIVER No.

OPERATOR BILL HURLEY

COMMENTS:

Induced Polarization Survey
in the
Binghampton, Pennyrich and Mayer 20 Prospect Areas
Yavapai County, Arizona

for

American Selco, Inc.

September 1975

by

GEOEX

GEOEX Job# 1040

INDUCED POLARIZATION SURVEY

IN THE

BINGHAMPTON, PENNYRICH AND MAYER 20 PROSPECT AREAS

YAVAPAI COUNTY, ARIZONA

FOR

AMERICAN SELCO, INC

SEPTEMBER 1975

by

HEINRICHS GEOEXPLORATION COMPANY
P. O. Box 5964 Tucson, AZ 85703

GEOEX Job #1040

TABLE OF CONTENTS

Introduction---------- 1

Conclusions & Recommendations---------- 2
- Binghampton Area---------- 2
- Pennyrich Area---------- 3
- Mayer 20 Prospect---------- 4

Interpretation---------- 4
- Binghampton Area---------- 4
- Pennyrich Area---------- 6
- Mayer 20 Prospect---------- 7

Procedures---------- 8

Comments on Drilling IP Targets

Sectional Data Sheets
- Binghampton Area
  - Line 0-N/S (100' dipoles)
  - Line 5N " "
  - Line 7N " "
  - Line 8N 200' "
  - Line 10N " "
  - Line 22N " "
  - Line 28N (Spreads 1, 2 & 3, 100' dipoles)
  - Line 30N " " " " " "
- Pennyrich Area
  - Line 3N (100' dipoles)
  - Line 0-N/S (100' dipoles)
  - Line 3S " "
  - Line 6S " "
- Mayer 20 Prospect
  - Line 23S (100' dipoles)

In Map Pocket: (Total 3 pieces)
- Induced Polarization Location and Interpretation Plan
- Binghampton Area
- Pennyrich Area
- Mayer 20 Prospect

INTRODUCTION

At the request of Mr. Paul Strobel, of American Selco, Inc., Prescott, Arizona, Heinrichs GEOEXploration Company was contracted to run an induced polarization survey in three areas near Mayer, Yavapai County, Arizona. These areas are designated as the Binghampton, Pennyrich and Mayer 20 Prospect Areas and are located as shown on the three respective plans in the attached map pocket. This work was done during the interim August 19 to September 24, 1975 with Bill Hurley as Crew Chief, supervised by Chris S. Ludwig, Chief Geophysicist.

The purpose of this survey was to detect and delineate any significant subsurface sulfide zones in a massive sulfide volcanogenic environment in the Precambrian Yavapai schist metamorphic complex.

CONCLUSIONS AND RECOMMENDATIONS

Binghampton Area

Anomalous IP response is present in several areas and for the most part correlates with the mapped "marker rhyolite-sulfide zones". The strongest IP response is a moderately strong anomaly in the marker rhyolite on Line 7N directly correlating with the sulfide mineralization at the Belgium shaft. Anomalous response on Lines 8N and 10N indicates that the Belgium mineralization may persist north of the shaft with nearly similar strength - presenting an interesting drill target.

To test this possible north extension, two drill holes are suggested, both collared at 3W on Line 8N. Proposed drill hole #1 is angled -45° to the east to attempt a shallow intersection of the anomalous source approximately between 100 feet and 150 feet below surface. This hole should be programmed for about 250 feet total length to give a representative intersection of the zone of interest and to allow for some uncertainty in dip and location.

Proposed drill hole #2 is suggested at the same site as hole #1 but angled at about -75° to the east to intersect the target zone at a greater depth providing the results of hole #1 are sufficiently encouraging. This hole should be programmed for about 400 feet total length. Similar drilling could be continued northwards along strike to Line 10N if the preliminary results warrant. Additional detailed IP should be run north of Line 10N if drilling is being considered north of Line 10N.

The only other zone of IP response having possibly significant strength is the weak anomaly centered near 10E on Line 8N and its northwest extension to about 8E on Line 10N. This is a low priority target but could be tested

by proposed drill hole #3 collared near 8E on Line 8N and angled about -60° east to intersect the target zone roughly 200 feet below surface - assuming a steep west dip. This hole should be planned for at least 300 feet total length. If this drill hole is encouraging, a similar target is present on Line 10N near 8E to 9E although further detailed IP coverage is perhaps warranted prior to any additional drilling along strike.

Pennyrich Area

A weak but fairly well defined IP anomaly is present on all four lines and shows good correlation with the gossan zone as mapped. Only rather weak sulfides are expected or perhaps very narrow zones of stronger sulfides may be present. Therefore, unless there are associated precious metal or significant non-IP responsive sphalerite concentrations present, this target is considered, geophysically, to have only a poor economic potential. The response on Lines 3S and 3N is slightly stronger and somewhat better defined than on Lines 0-N/S and 6S and is suggested for initial test drilling if drilling is planned.

Proposed drill hole #1 is suggested near 0.5W on Line 3S and angled -60° to the east to test the target slightly above 100 feet in depth where it appears somewhat stronger. This hole should be programmed for about 200 feet total length, assuming a steep west dip. Proposed drill hole #2 is suggested near 1.5W also on Line 3S and angled -60° east to test the same target about 100 feet deeper providing some encouragement is obtained on hole #1. A total hole length of about 300 feet should suffice to intersect the zone of interest unless the dip steepens or reverses direction.

To test the similar anomaly on Line 3N at a depth of about 150 feet proposed drill hole #3 is suggested at 1.5W at an angle of -60° to the east. A total length of about 250 feet should be programmed.

If this initial drilling is at all encouraging, additional IP is recommended on the same grid both to the north and south in that the anomalous response is open-ended in both directions.

Mayer 20 Prospect

No significant appearing IP response is noted correlating with the gossan zone crossed by Line 23S. The gossan produces a pronounced shallow resistivity low between stations 7E and 8E, however. Sulfides, if present are likely too weak or too narrow to respond at the surface or they are buried deeper than the detectibility limit of about 150 to 200 feet below surface.

Unless there are compelling geologic or geochemical reasons to the contrary, no additional work is recommended on this zone at this time.

INTERPRETATION

Binghampton Area

As seen on the interpretation plan, the IP maps the marker rhyolite zone quite well. The three northernmost lines show only very weak or questionably anomalous IP response over the marker rhyolite zones and the north portion of the area is therefore not considered to be of further geophysical interest at this time at least to the 200 to 300 foot depths prospected. The coverage in the south half of the area shows response strong enough to be of potential economic interest, particularly Lines 5N through 10N, and is discussed further.

Line 7N crosses the Belgium shaft mineralization and gives the strongest IP response seen on the survey. The pattern of response suggests a zone of mineralization about 100 to 150 feet wide centered near Station 1W. Depth to sulfides is indicated as being about 50 feet below surface and there

is a strong suggestion that the sulfide zone is depth limited in that the response shows a marked decrease perhaps in the vicinity of 150 feet below surface. It is possible that this is only a response decrease and not necessarily a sulfide decrease below 150 feet, perhaps caused by a more IP responsive environment in the zone of weathering above the water table which is reported to be roughly at 160 feet in this area.

The strength of IP response has been graded as moderate and is compatible with the several percent sulfide by volume noted in drill core from this zone of mineralization. Dip is difficult to estimate but the response is compatible with a steeply dipping but depth limited tabular body.

There is a fairly strong and well defined resistivity low directly associated with the Line 7N anomaly that also appears to be a near surface depth restricted feature. This low is likely the combined effect of the sulfides, their conductive weathering products and associated alteration.

No significant appearing self potential anomalism is noted correlating with the Belgium mineralization, or for that matter, anywhere on this survey. This lack of self potential response suggests a lack of near surface, actively oxidizing, relatively massive (electrically interconnected) sulfide mineralization. This is not in conflict with the IP results which suggest a more dispersed or disseminated degree of sulfide mineralization rather than massive sulfides and this is further supported by inspection of the drill core which shows veinlet and disseminated sulfides as the bulk of the mineralization.

South of the Belgium shaft, the IP response decreases to a poorly defined weak anomaly on Line 5N and to a very weak feature on Line 0-N/S. To the north, however, the anomalous response persists more strongly to

Lines 8N and 10N. These two lines show weak response but they are 200 foot dipole lines which probably would have yielded moderate strength response had 100 foot dipoles been used instead.

As on Line 7N, Lines 8N and 10N show a response suggesting a narrow, shallow and depth limited source. Line 8N gives a slightly stronger and better defined response than Line 10N and therefore initial drilling has been preferentially recommended for Line 8N. These three lines define a NNW strike to the mineralized zone. No plunge component is evident, however, although the rather rough terrain involved makes interpretation quite difficult.

Lines 8N and 10N also define another zone of anomalism near 8E to 10E correlating with a zone of marker rhyolite subparallel to the Belgium zone. This anomaly is weak in strength and again appears to have a shallow and depth limited source. The indicated mineralization may be even more disseminated than the Belgium zone and would appear to be somewhat wider, say 200 or 300 feet in total width.

All evidence so far suggests that the cause of the Binghampton IP anomalism is metallic lustered sulfides such as pyrite and chalcopyrite. However, other metallic lustered polarizers such as certain iron and manganese oxides, graphite or conceivably even clay cannot be completely ruled out as contributing to the untested response.

Pennyrich Area

All four lines show a weak anomaly directly correlating with the mapped gossan zone and suggest a depth of 50 feet or less to the top of the sulfide zone. The pattern of response indicates a source less than 100 feet in width and probably with a steep dip.

As in the Binghampton area, there is some evidence that the source is

depth limited although this possibility is less well defined here. The weak strength of the IP response together with a lack of significant appearing self potential anomalism and only a poorly defined associated resistivity low implies a rather weak disseminated zone of sulfides rather than more massive sulfide mineralization. Of course several very narrow but massive sulfide stringers could give the same response as a more homogeneous disseminated body.

Lines 3S and 3N are slightly stronger and better defined than Lines 0-N/S and 6S, and were therefore selected for initial drilling recommendations.

Because of the direct correlation with a sulfide derived gossan, sulfides are the expected cause of the anomalous IP response. However, response this weak could be caused by iron or manganese oxides, clay or graphite and these possibilities should not be overlooked.

Mayer 20 Prospect

No anomalous IP effects are seen to correlate with the gossan target centered near 7.5E. However, a well defined shallow resistivity low is present over the gossan which is probably the result of the more electrically conductive porous weathered material and perhaps its associated hydrothermal alteration.

Very weak poorly defined IP anomalism is noted near 4.5W and 12E perhaps reflecting minor rock type background effect variations. No anomalous self potential response is noted on the traverse.

PROCEDURES

A GEOEX Mark 7 multi-frequency IP system was employed to obtain this coverage and used a sending frequency pair of 0.3 and 3.0 hz. The standard collinear dipole-dipole array was used with "spreads" of seven sending electrodes each and either 100 or 200 foot dipole lengths. The lines in all three areas were oriented N80°W to E-W to cross the regional strike approximately normal. All stations and line designations are in hundreds of feet and correspond to the Selco field coordinate systems.

All coverage was on 100 foot dipoles except for Lines 8N, 10N and 22N in the Binghampton area where the additional depth penetration of 200 foot dipoles was desired. Sending-receiving dipole separations range from 1 to 6 dipole lengths on all spreads and typically, this should give resolvable depth penetration within the zone from about 1/3 dipole length to as much as about two dipole lengths. On the 100 foot dipole spreads, for example, the penetration would range from about 30 feet to as much as 200 feet below surface. The 200 foot dipole spreads would have twice as much penetration but only one half as much resolution as the 100 foot dipole spreads.

The data are presented on "sectional" data sheets, one for each line showing from top to bottom; resistivity, percent frequency effect (PFE) and metallic conduction factor (MCF) contoured in "sectional" form. Self potential readings taken in conjunction with the IP readings are shown at the bottom of the sheets in profile form. An "Induced Polarization Location and Interpretation Plan" is also included for each of the three areas to overlay the respective Selco geology maps.

Respectfully submitted,
Heinrichs GEOEXploration Co.

Chris S. Ludwig

Chris S. Ludwig, Chief Geophysicist

P. O. Box 5964
Tucson, AZ 85703

October 9, 1975

COMMENTS ON DRILLING I.P. 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.

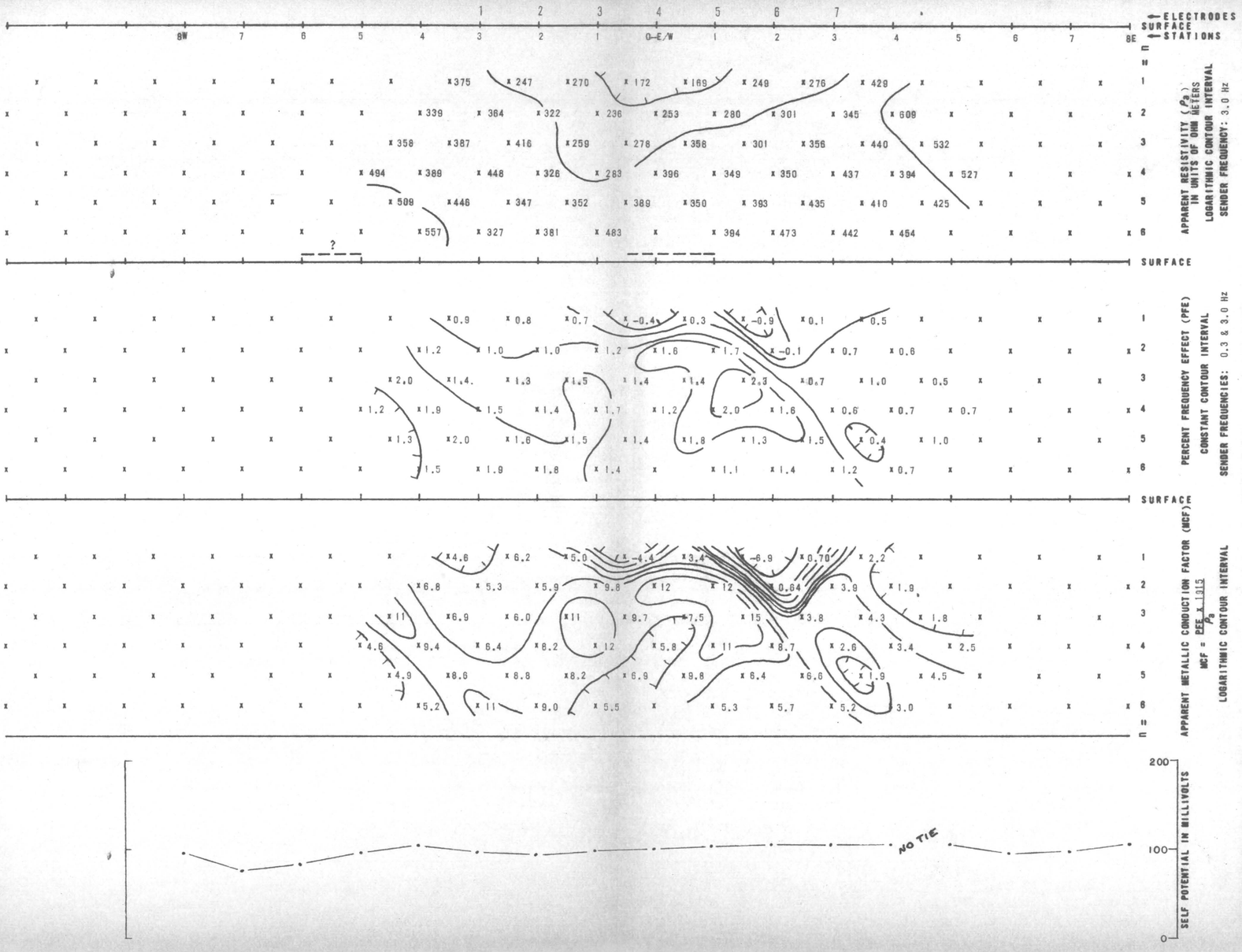
2. Location of drill holes should be made relative to the actual sending and receiving electrode positions as they exist on the ground.

3. Due to inherent limitations in the I.P. 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 <u>all</u> 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 I.P. parameters, if there is some doubt about confirmation of the anomalous source.



1040-75

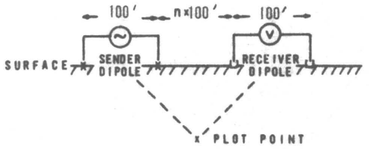
LINE NO.
0-N/S
SPREAD(S)
1
BEARING
N 80° W

INDUCED POLARIZATION TRAVERSE SECTIONAL DATA SHEET of BINGHAMPTON AREA YAVAPAI COUNTY, ARIZONA for AMERICAN SELCO, INC.

RELATIVE ANOMALY STRENGTH

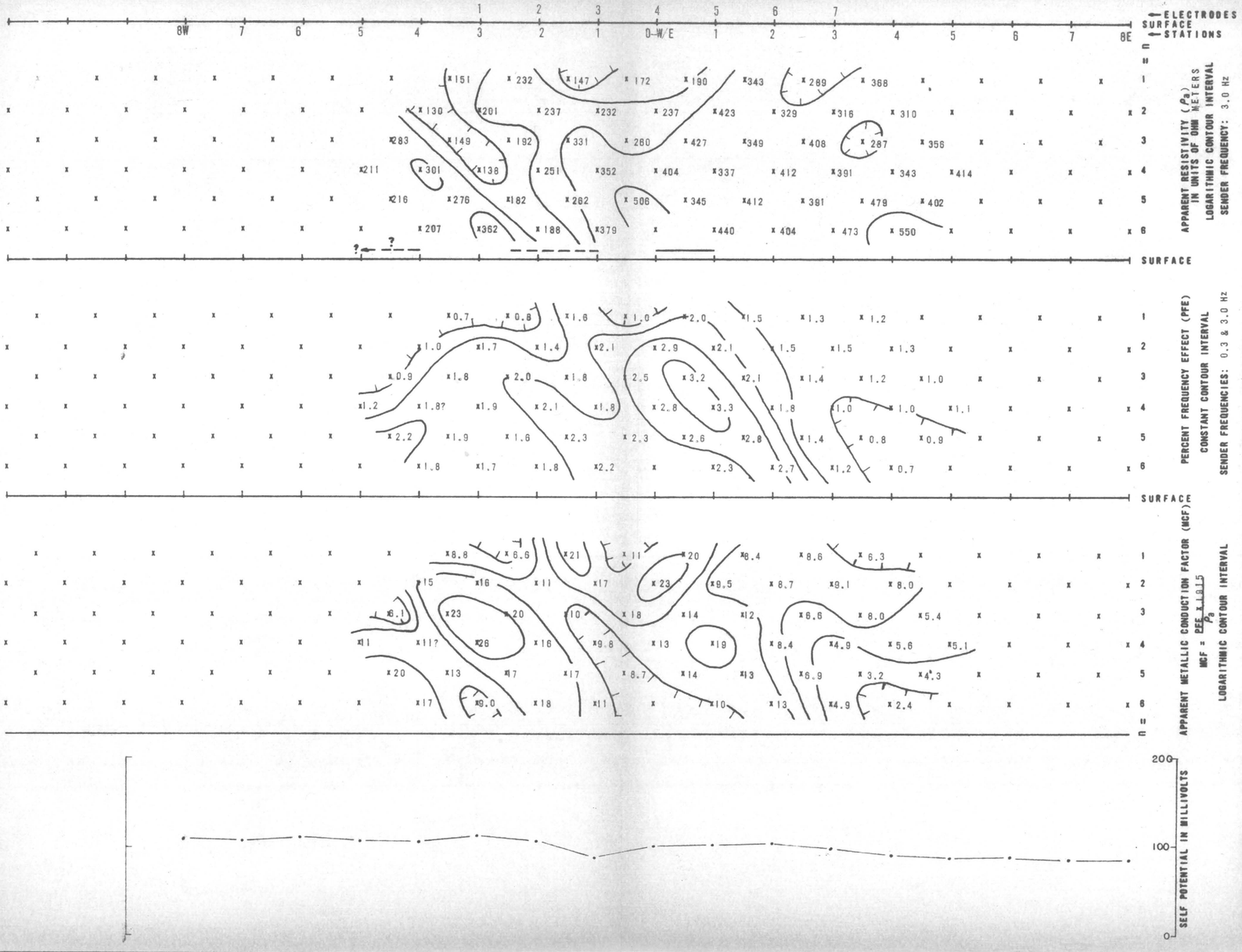
VERY WEAK — WEAK — MODERATE — STRONG

DIPOLE-DIPOLE ELECTRODE ARRAY



DATE
AUGUST 1975

HEINRICHS GEOEXPLORATION COMPANY
806 W. GRANT ROAD, POST OFFICE BOX 5964, TUCSON, ARIZ., 85703, PHONE: (602)623-0578



1040-75

LINE NO.
5N
SPREAD(S)
I
BEARING
E/W

INDUCED POLARIZATION TRAVERSE SECTIONAL DATA SHEET

of

BINGHAMPTON AREA
YAVAPAI COUNTY, ARIZONA

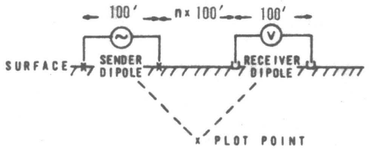
for

AMERICAN SELCO, INC.

RELATIVE ANOMALY STRENGTH

VERY WEAK | WEAK | MODERATE | STRONG

DIPOLE-DIPOLE ELECTRODE ARRAY



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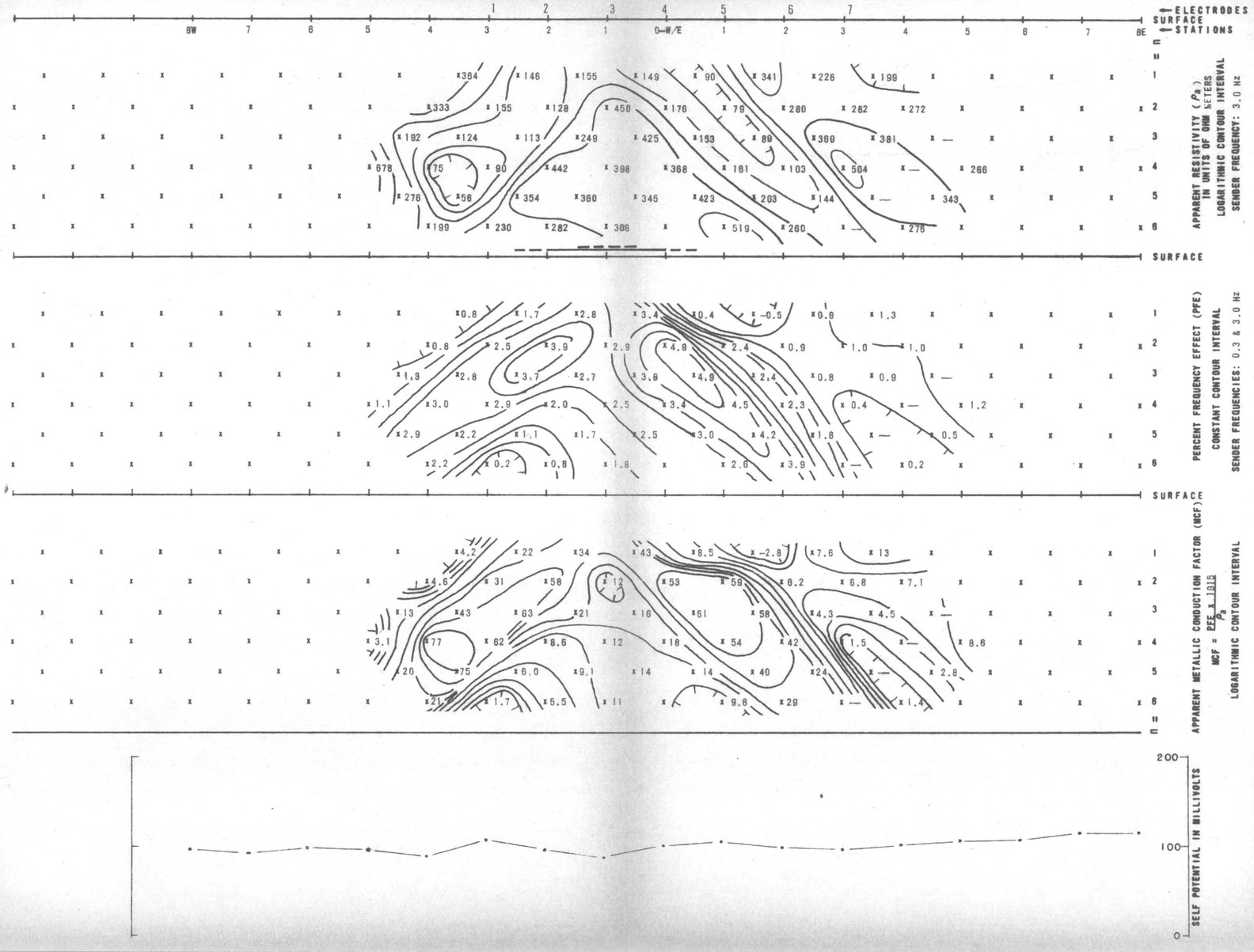


1040-75

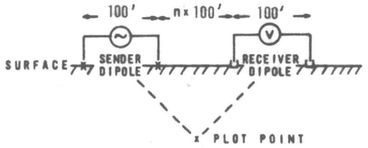
LINE NO.
7N
SPREAD(S)
1
BEARING
N 80° W

INDUCED POLARIZATION TRAVERSE SECTIONAL DATA SHEET of BINGHAMPTON AREA YAVAPAI COUNTY, ARIZONA for AMERICAN SELCO, INC.

RELATIVE ANOMALY STRENGTH

VERY WEAK — WEAK — MODERATE — STRONG

DIPOLE-DIPOLE ELECTRODE ARRAY



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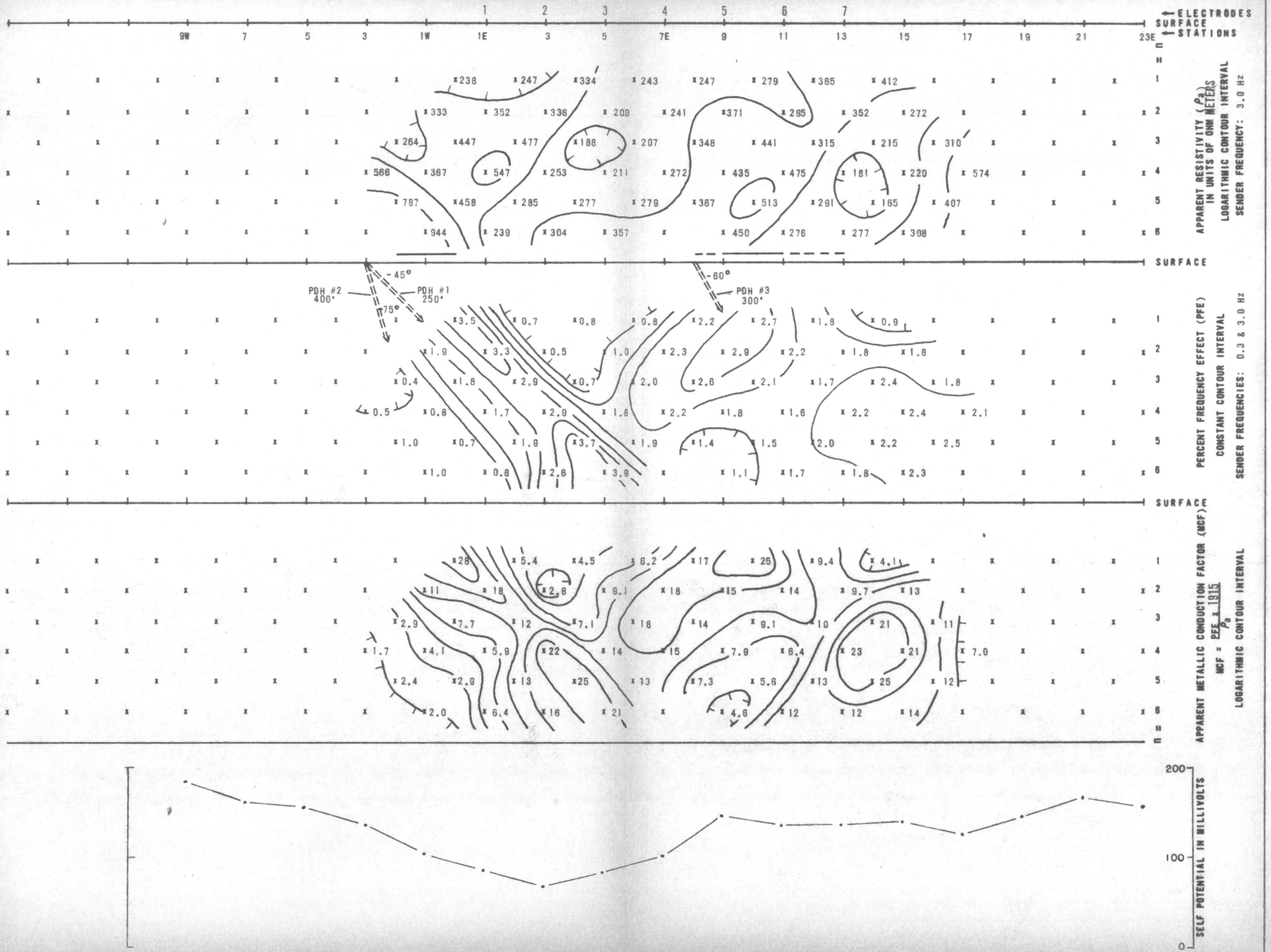
1040-75

LINE NO.
8N
SPREAD(S)
1
BEARING
N 80° W

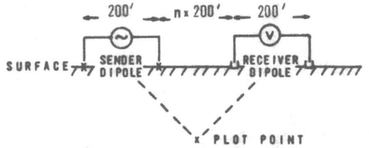
INDUCED POLARIZATION TRAVERSE SECTIONAL DATA SHEET
of
BINGHAMPTON AREA
YAVAPAI COUNTY, ARIZONA
for
AMERICAN SELCO, INC.



RELATIVE ANOMALY STRENGTH

VERY WEAK — WEAK — MODERATE — STRONG

DIPOLE-DIPOLE ELECTRODE ARRAY



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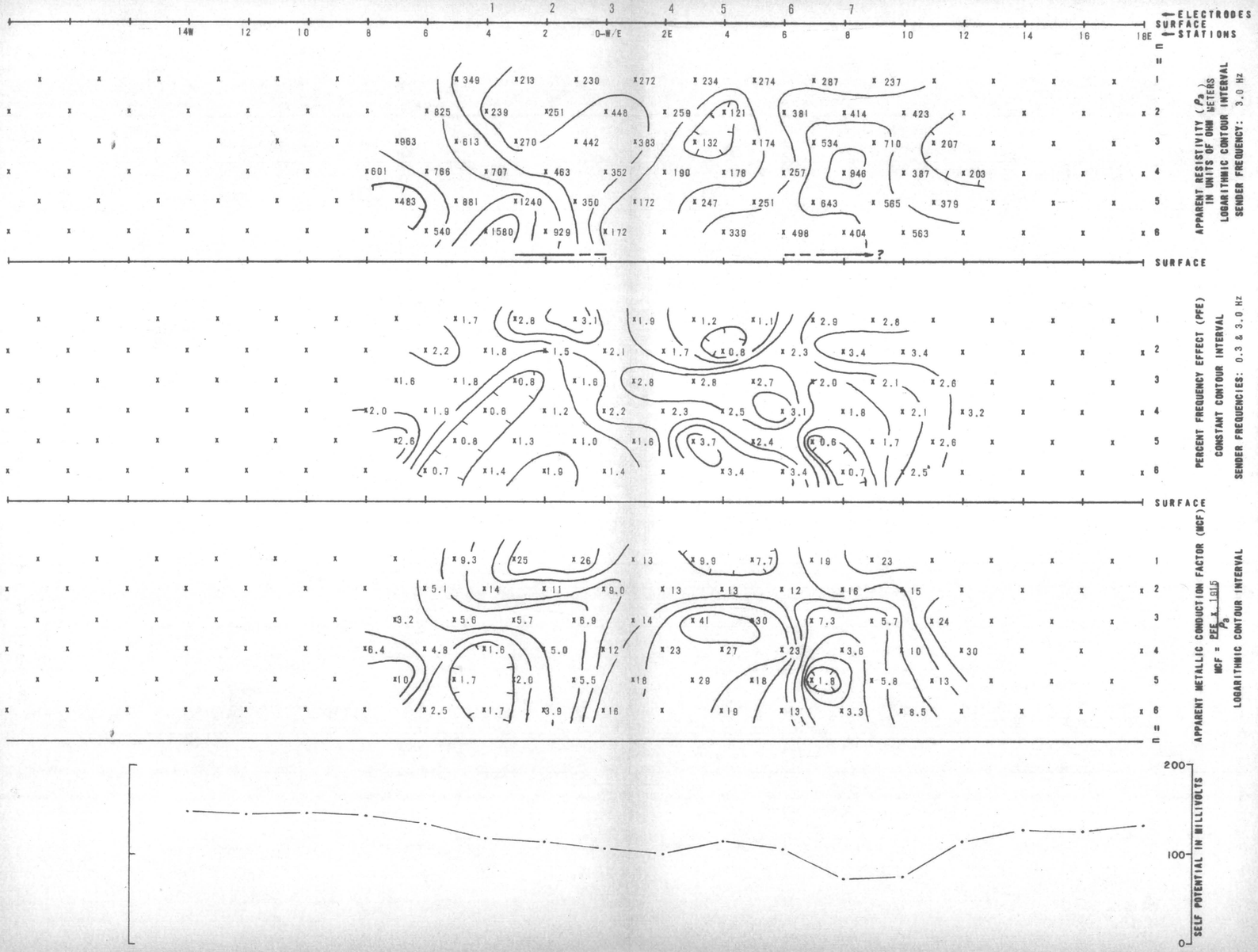


1040-75

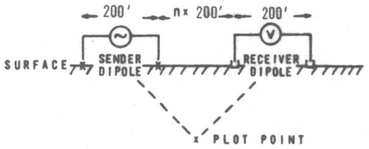
LINE NO.
ION
SPREAD(S)
I
BEARING
N 80° W

INDUCED POLARIZATION TRAVERSE SECTIONAL DATA SHEET of BINGHAMPTON AREA YAVAPAI COUNTY, ARIZONA for AMERICAN SELCO, INC.

RELATIVE ANOMALY STRENGTH

VERY WEAK — WEAK — MODERATE — STRONG

DIPOLE-DIPOLE ELECTRODE ARRAY



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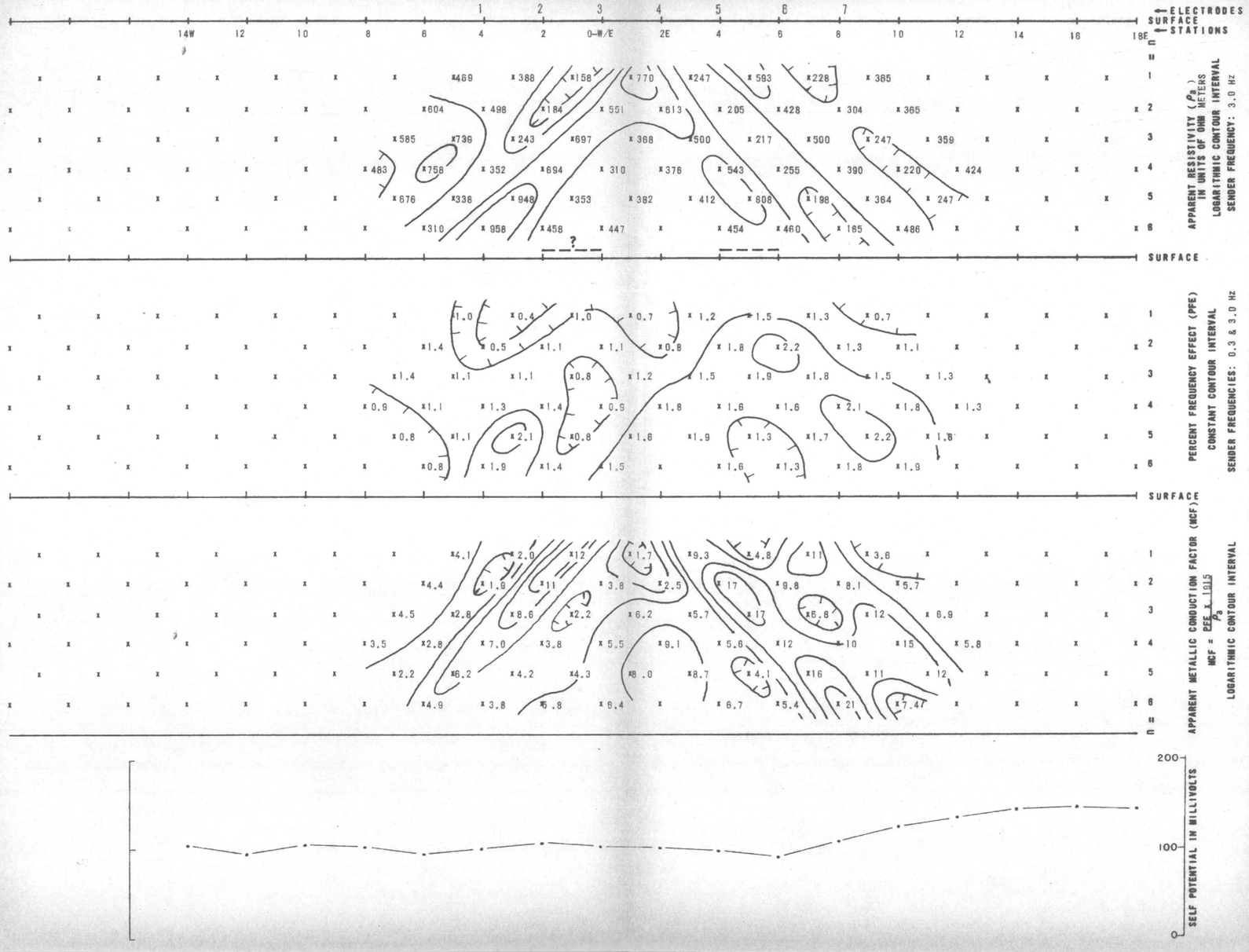


1040-75

LINE NO.
22N
SPREAD(S)
1
BEARING
N 80° W

INDUCED POLARIZATION TRAVERSE SECTIONAL DATA SHEET

of

BINGHAMPTON AREA
YAVAPAI COUNTY, ARIZONA

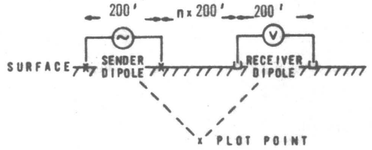
for

AMERICAN SELCO, INC.

RELATIVE ANOMALY STRENGTH

VERY WEAK | WEAK | MODERATE | STRONG

DIPOLE-DIPOLE ELECTRODE ARRAY



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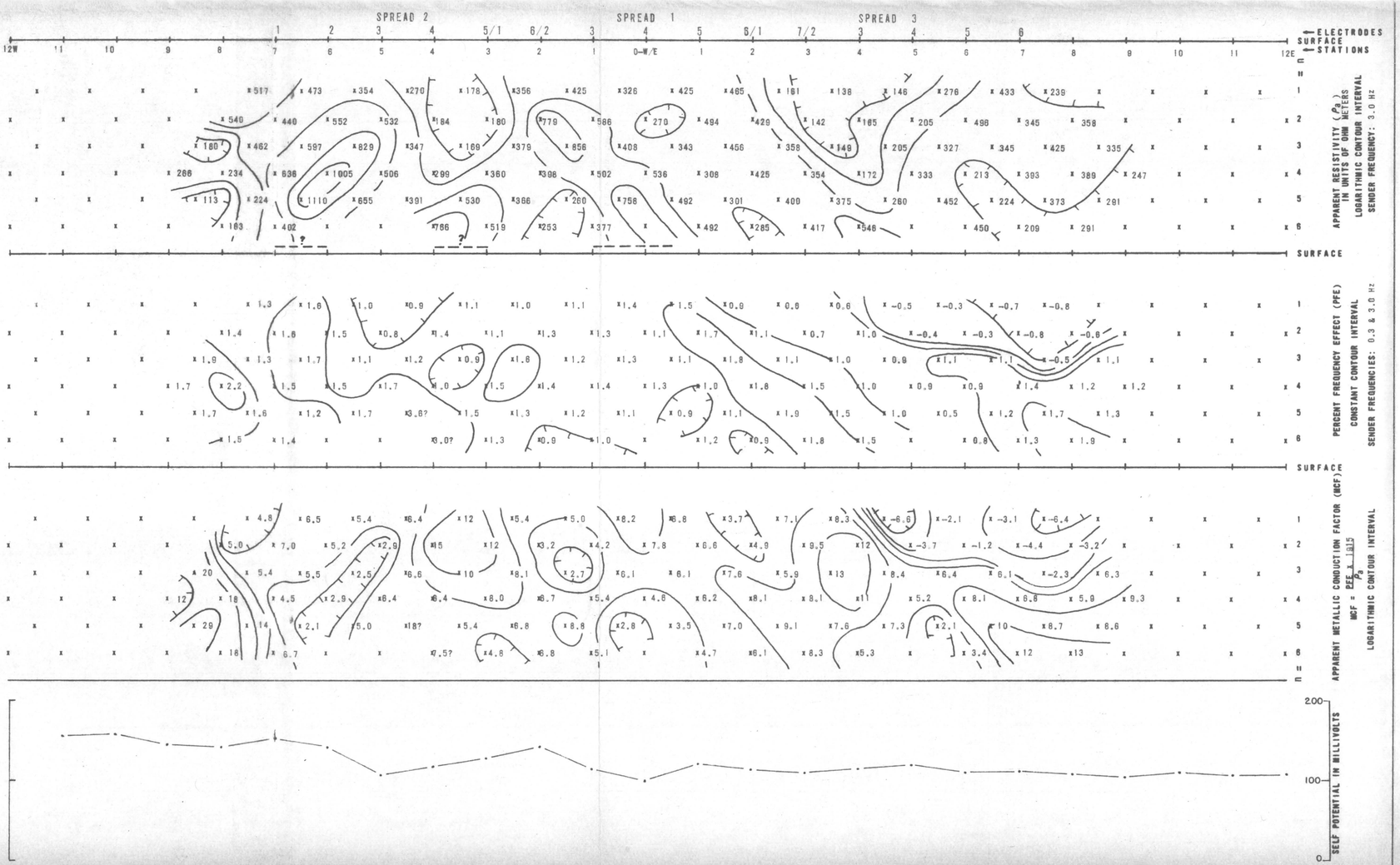


1040-75

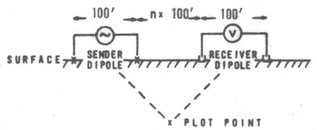
LINE NO.
28N
SPREAD(S)
1, 2 & 3
BEARING
N 80° W

INDUCED POLARIZATION TRAVERSE SECTIONAL DATA SHEET of BINGHAMPTON AREA YAVAPAI COUNTY, ARIZONA for AMERICAN SELCO, INC.

RELATIVE ANOMALY STRENGTH

VERY WEAK | WEAK | MODERATE | STRONG

DIPOLE-DIPOLE ELECTRODE ARRAY



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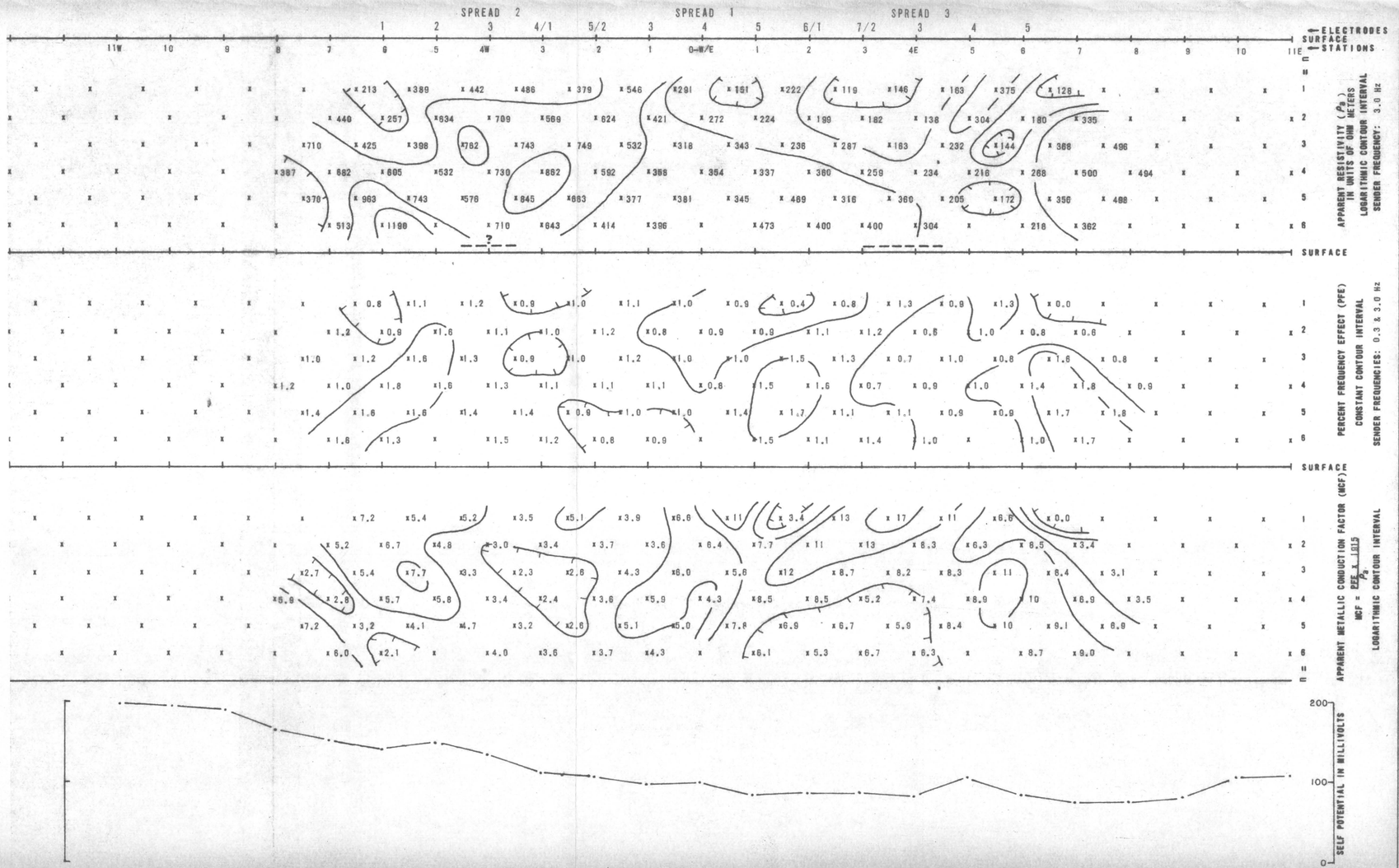


1040-75

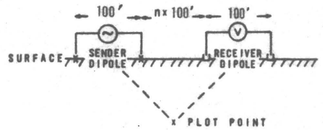
LINE NO.
30N
SPREAD(S)
1, 2 & 3
BEARING
N 80° W

INDUCED POLARIZATION TRAVERSE SECTIONAL DATA SHEET
of
BINGHAMPTON AREA
YAVAPAI COUNTY, ARIZONA
for
AMERICAN SELCO, INC.

RELATIVE ANOMALY STRENGTH

VERY WEAK — WEAK — MODERATE — STRONG

DIPOLE-DIPOLE ELECTRODE ARRAY



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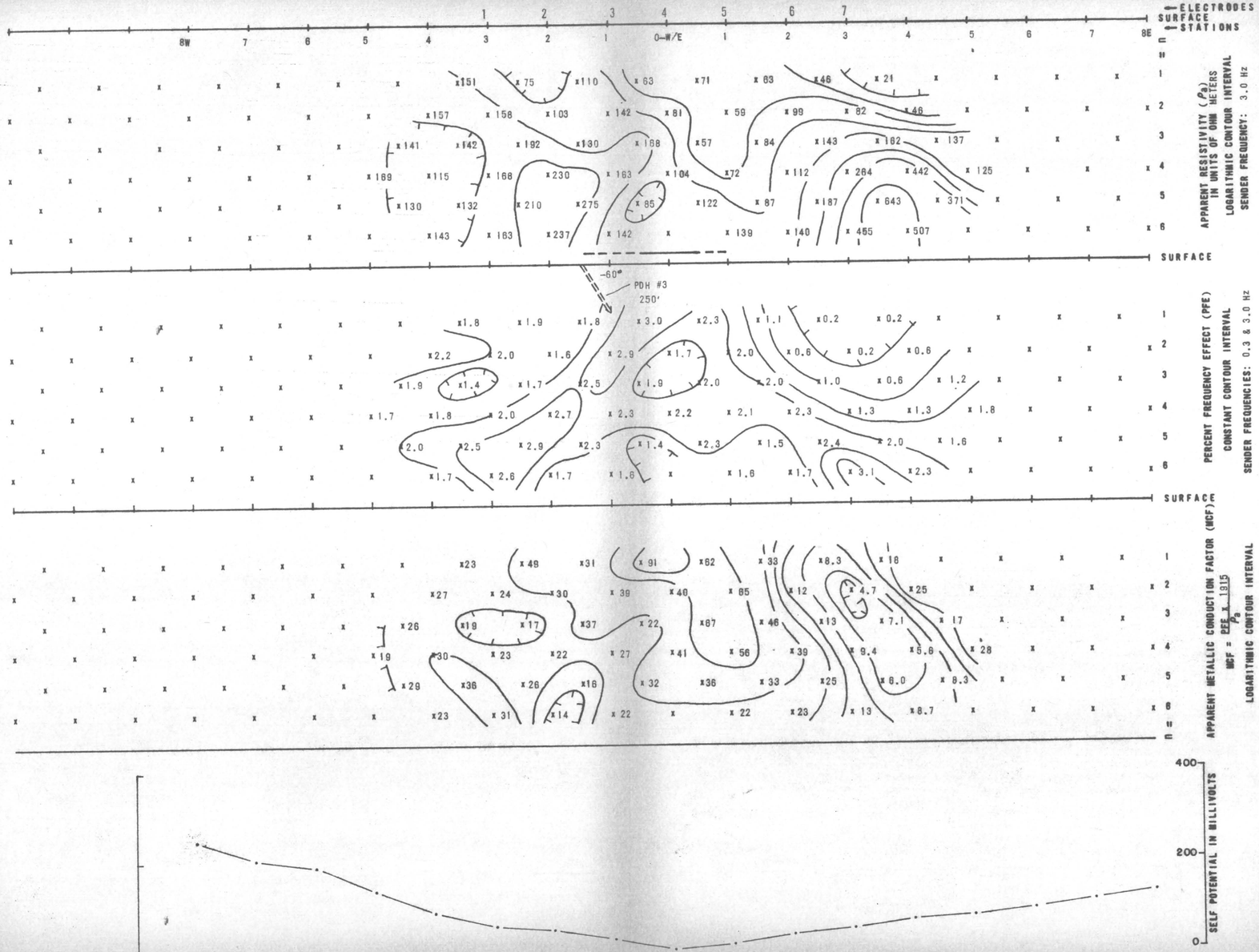


1040-75

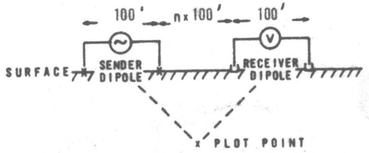
LINE NO. 3N
SPREAD(S) 1
BEARING N 80° W

INDUCED POLARIZATION TRAVERSE SECTIONAL DATA SHEET of PENNYRICH AREA YAVAPAI COUNTY, ARIZONA for AMERICAN SELCO, INC.

RELATIVE ANOMALY STRENGTH

VERY WEAK | WEAK | MODERATE | STRONG

DIPOLE-DIPOLE ELECTRODE ARRAY



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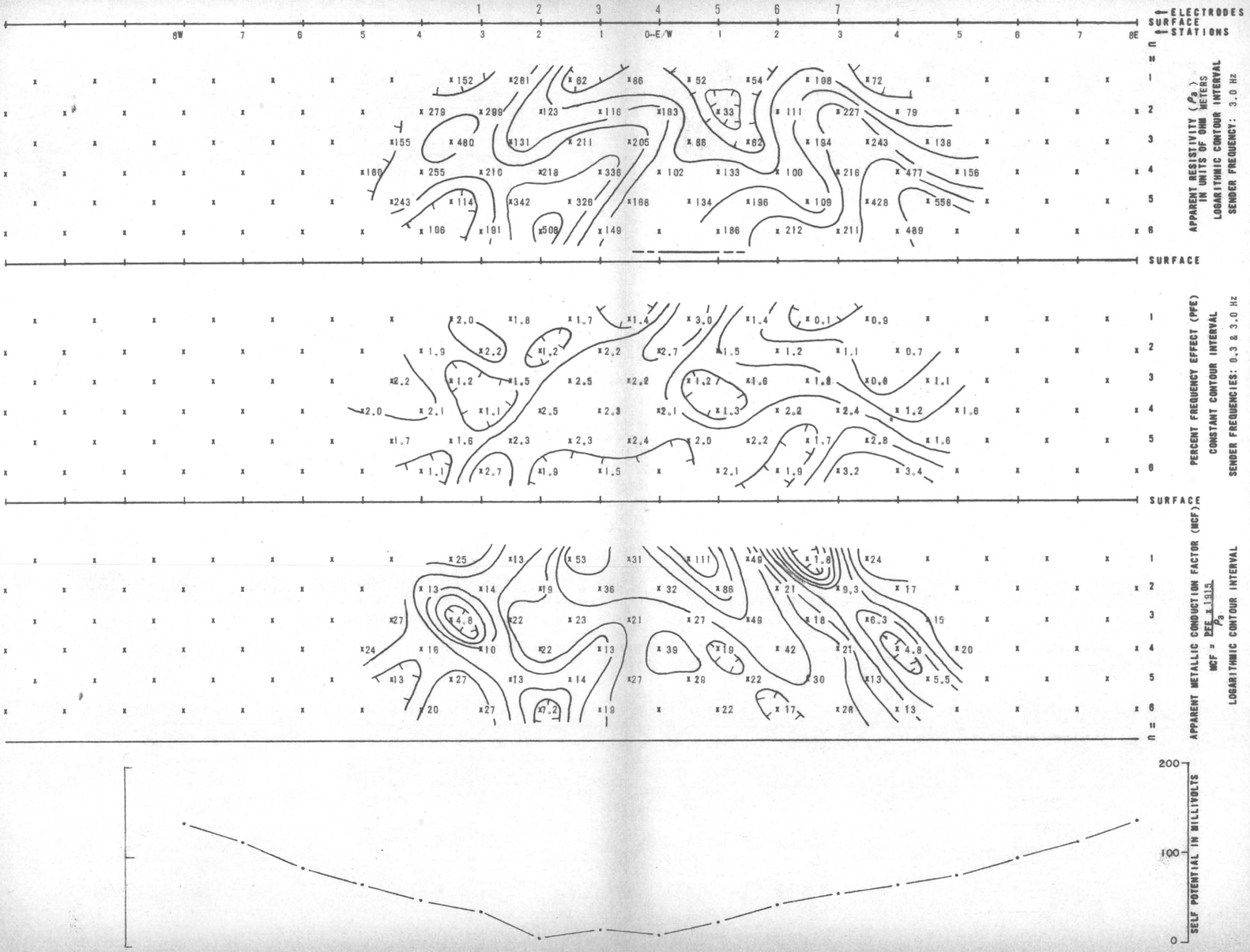


1040-75

LINE NO.
0-N/S
SPREAD(S)
1
BEARING
N 80° W

INDUCED POLARIZATION TRAVERSE SECTIONAL DATA SHEET

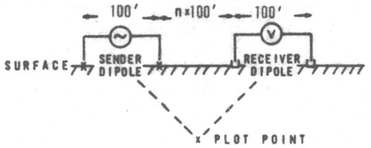
of

PENNYRICH AREA
YAVAPAI COUNTY, ARIZONA
for
AMERICAN SELCO, INC.

RELATIVE ANOMALY STRENGTH

VERY WEAK — WEAK — MODERATE — STRONG

DIPOLE-DIPOLE ELECTRODE ARRAY



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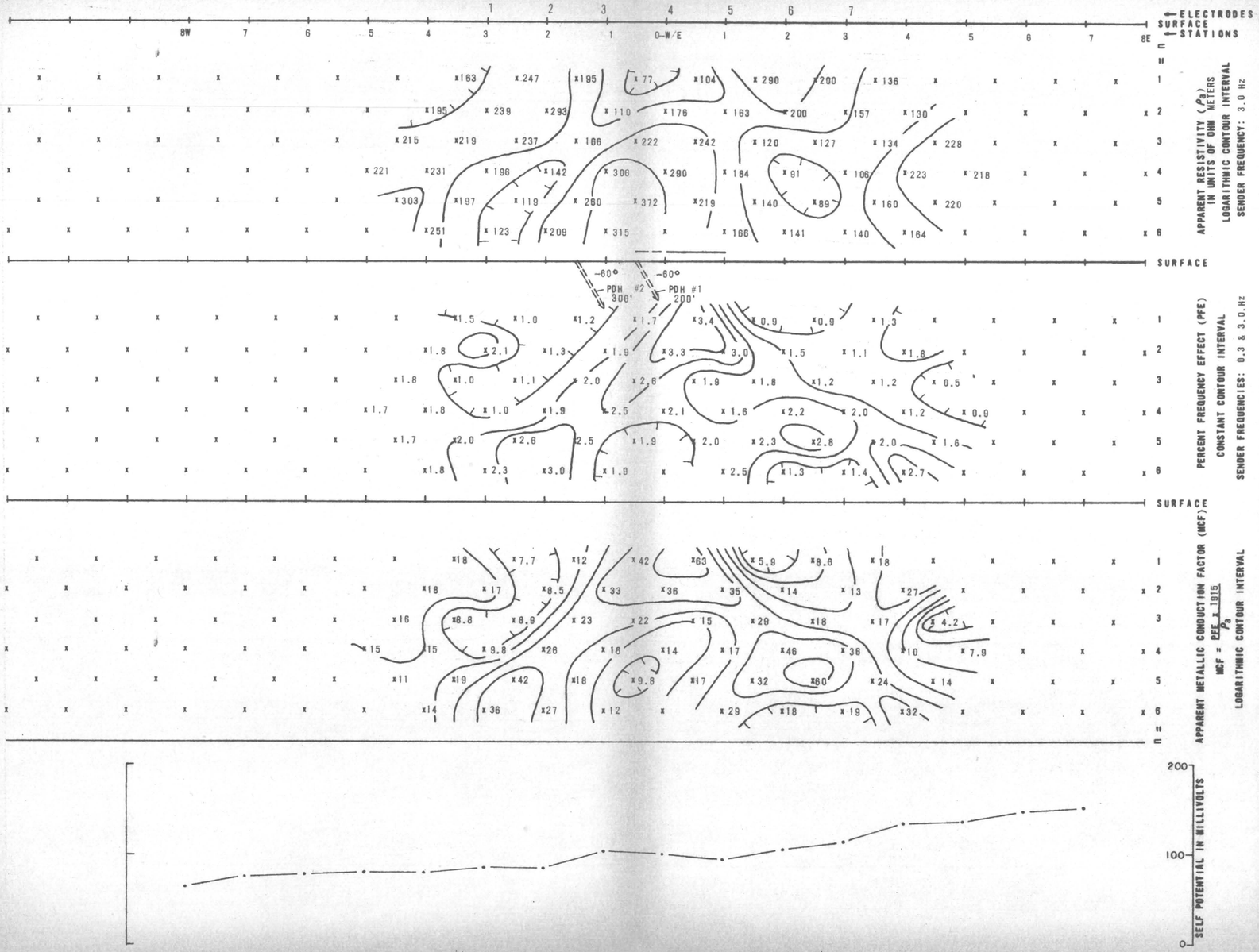


1040-75

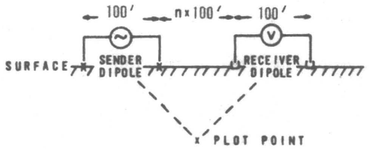
LINE NO.
3S
SPREAD(S)
1
BEARING
N 80° W

INDUCED POLARIZATION TRAVERSE SECTIONAL DATA SHEET
of
PENNYRICH AREA
YAVAPAI COUNTY, ARIZONA
for
AMERICAN SELCO, INC.

RELATIVE ANOMALY STRENGTH

VERY WEAK | WEAK | MODERATE | STRONG

DIPOLE-DIPOLE ELECTRODE ARRAY



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DATE
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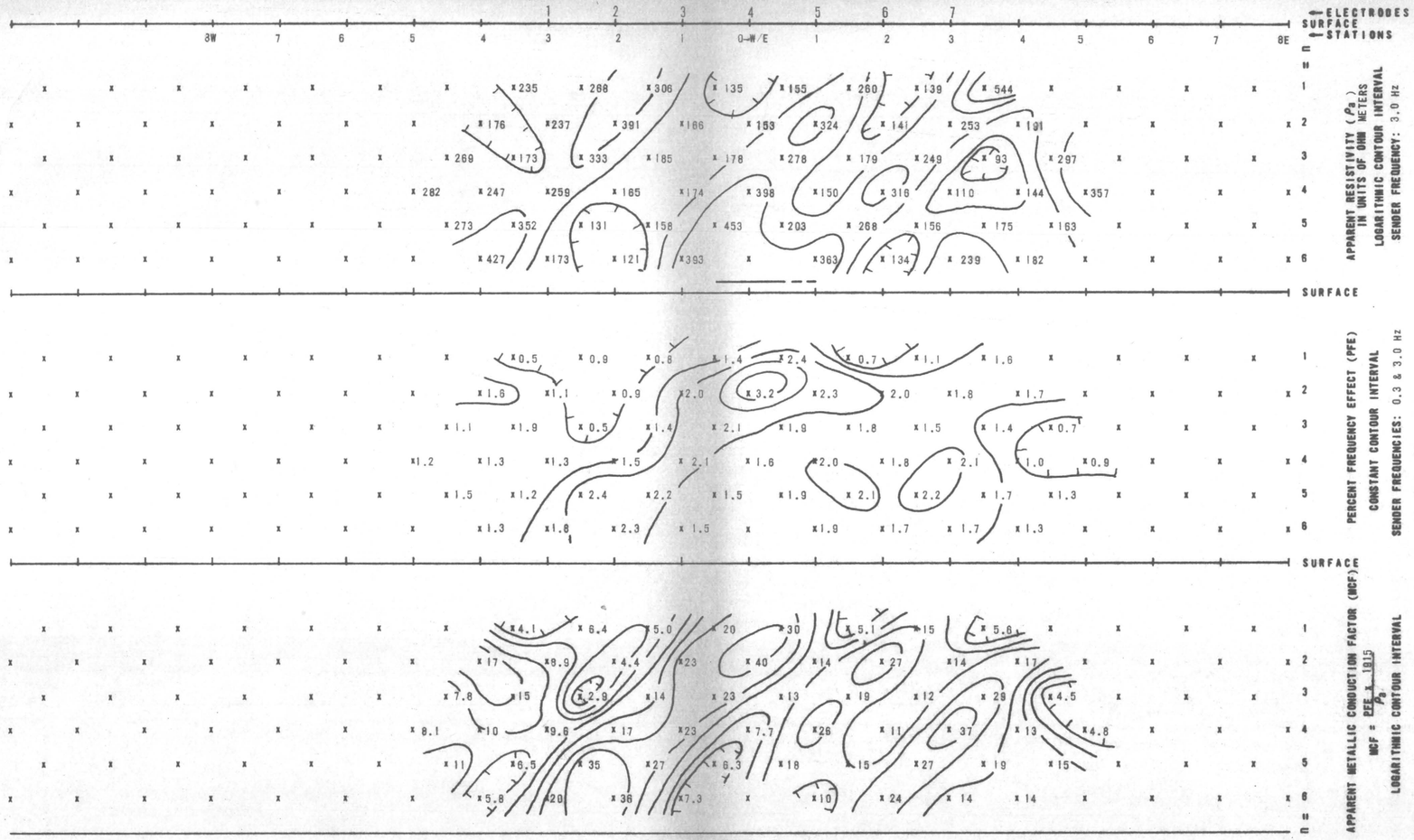
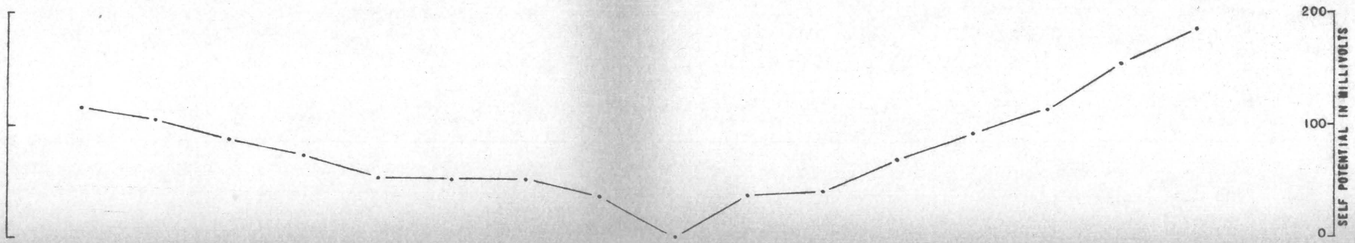




1040-75

LINE NO. 6S
SPREAD(S) 1
BEARING N 80° W

INDUCED POLARIZATION TRAVERSE SECTIONAL DATA SHEET

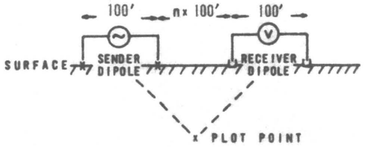
of

PENNYRICH AREA
YAVAPAI COUNTY, ARIZONA
for
AMERICAN SELCO, INC.

RELATIVE ANOMALY STRENGTH

VERY WEAK | WEAK | MODERATE | STRONG

DIPOLE-DIPOLE ELECTRODE ARRAY



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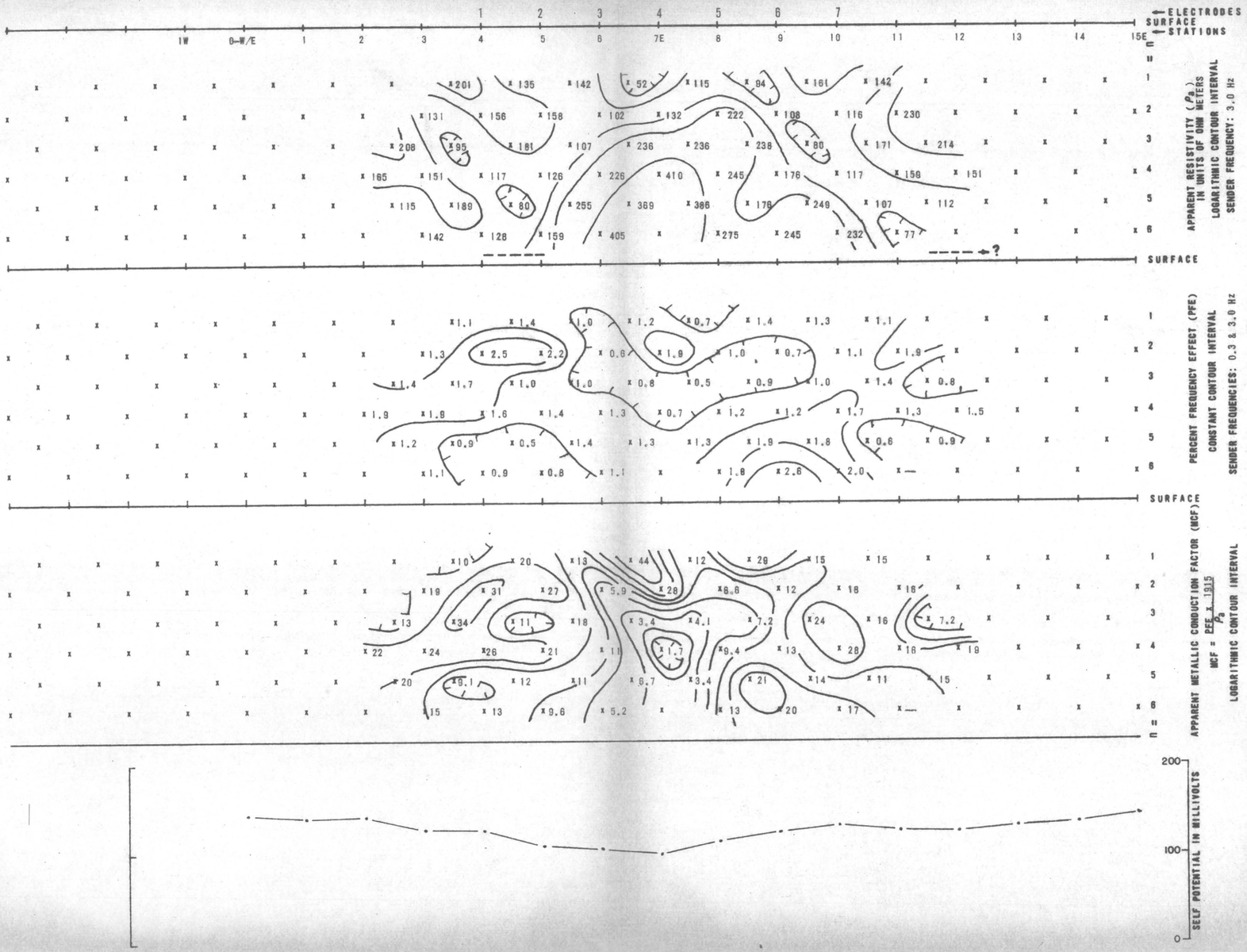


1040-75

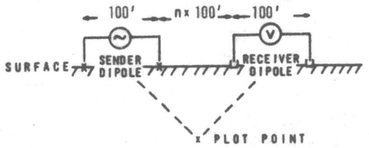
LINE NO. 23S
SPREAD(S) I
BEARING E-W

INDUCED POLARIZATION TRAVERSE SECTIONAL DATA SHEET of MAYER 20 PROSPECT YAVAPAI COUNTY, ARIZONA FOR AMERICAN SELCO, INC.

RELATIVE ANOMALY STRENGTH

VERY WEAK | WEAK | MODERATE | STRONG

DIPOLE-DIPOLE ELECTRODE ARRAY

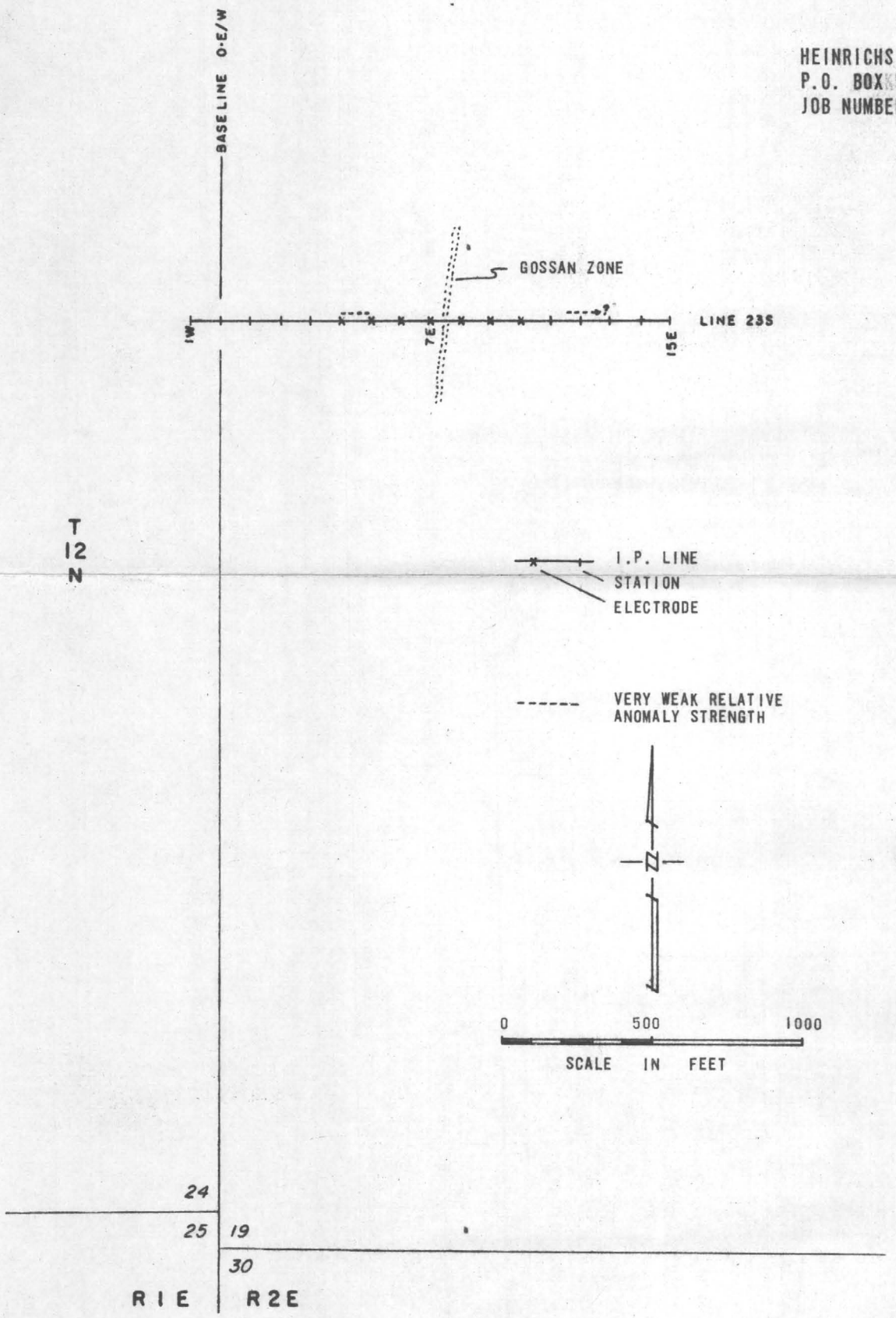


DATE

SEPTEMBER 1975

HEINRICHS GEOEXPLORATION COMPANY
806 W. GRANT ROAD, POST OFFICE BOX 5964, TUCSON, ARIZ., 85703, PHONE: (602)623-0578

INDUCED POLARIZATION LOCATION
AND INTERPRETATION PLAN
of
MAYER 20 PROSPECT
YAVAPAI COUNTY, ARIZONA
for
AMERICAN SELCO, INC.
by
HEINRICHS GEOEXPLORATION COMPANY
P.O. BOX 5964, TUCSON, AZ. 85703
JOB NUMBER 1040 SEPTEMBER 1975



22N I.P. LINE NUMBER

I.P. LINE
STATION
ELECTRODE

STRONG
MODERATE
WEAK
VERY WEAK
} RELATIVE ANOMALY STRENGTH

•2 PROPOSED DRILL HOLE AND NUMBER

OUTLINE OF MARKER RHYOLITE-SULFIDE ZONES
(FROM SELCO GEOLOGY MAP)

INDUCED POLARIZATION LOCATION AND INTERPRETATION PLAN

of

BINGHAMPTON AREA
YAVAPAI COUNTY, ARIZONA

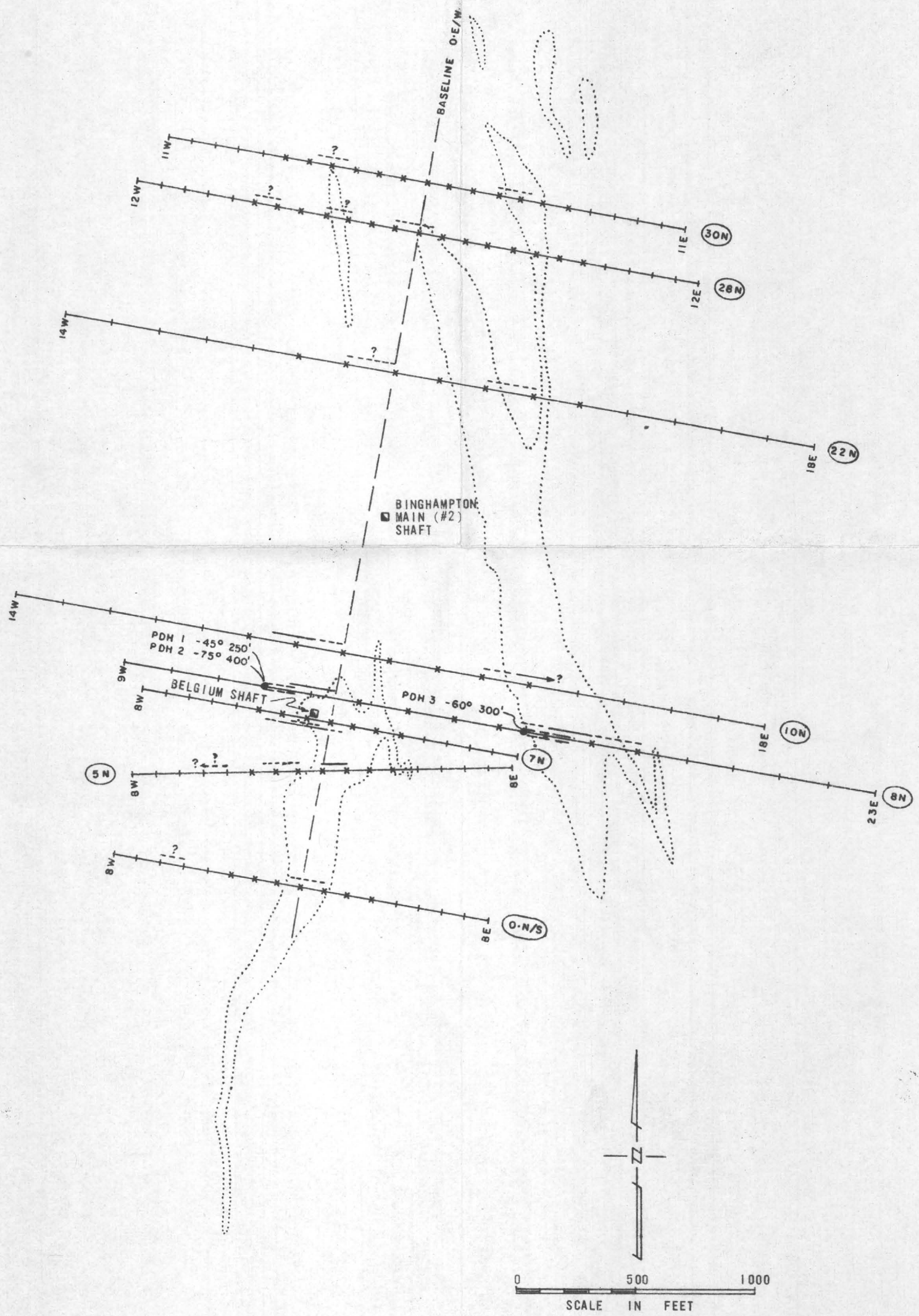
for

AMERICAN SELCO, INC.

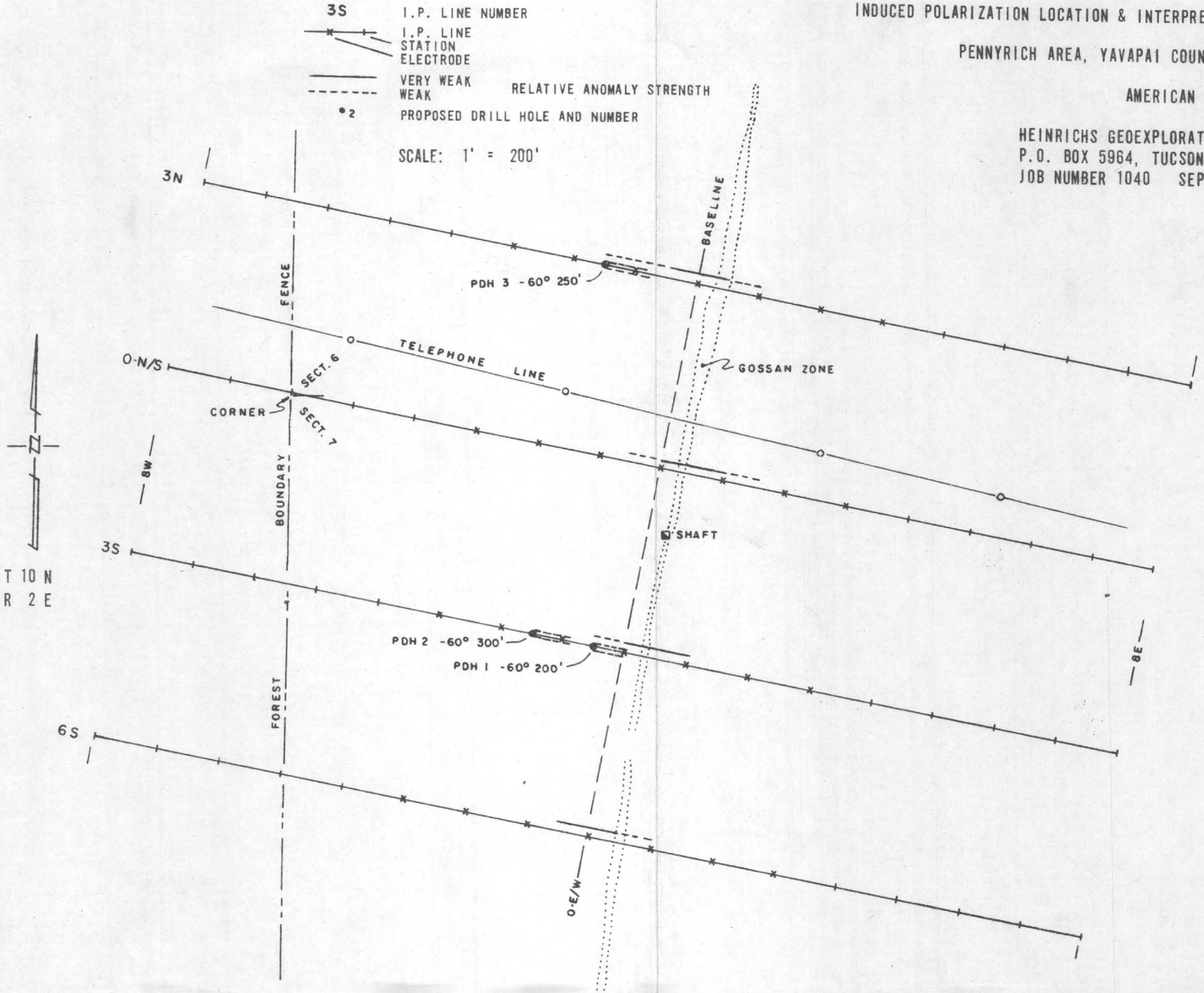
by

HEINRICHS GEOEXPLORATION COMPANY
P.O. BOX 5964, TUCSON, AZ. 85703
JOB NUMBER 1040 SEPTEMBER 1975

SECTION 6, T. 12 N., R. 2 E.



INDUCED POLARIZATION LOCATION & INTERPRETATION PLAN
of
PENNYRICH AREA, YAVAPAI COUNTY, ARIZONA
for
AMERICAN SELCO, INC.
by
HEINRICHS GEOEXPLORATION COMPANY
P.O. BOX 5964, TUCSON, AZ. 85703
JOB NUMBER 1040 SEPTEMBER 1975



INDUCED POLARIZATION SURVEY

IN THE

BINGHAMPTON, PENNYRICH AND MAYER 20 PROSPECT AREAS

YAVAPAI COUNTY, ARIZONA

FOR

AMERICAN SELCO, INC

SEPTEMBER 1975

by

HEINRICHS GEOEXPLORATION COMPANY
P. O. Box 5964 Tucson, AZ 85703

GEOEX Job #1040

TABLE OF CONTENTS

Introduction---------- 1

Conclusions & Recommendations---------- 2
- Binghampton Area---------- 2
- Pennyrich Area---------- 3
- Mayer 20 Prospect---------- 4

Interpretation---------- 4
- Binghampton Area---------- 4
- Pennyrich Area---------- 6
- Mayer 20 Prospect---------- 7

Procedures---------- 8

Comments on Drilling IP Targets

Sectional Data Sheets
- Binghampton Area
  - Line 0-N/S (100' dipoles)
  - Line 5N " "
  - Line 7N " "
  - Line 8N 200' "
  - Line 10N " "
  - Line 22N " "
  - Line 28N (Spreads 1, 2 & 3, 100' dipoles)
  - Line 30N " " " " " "
- Pennyrich Area
  - Line 3N (100' dipoles)
  - Line 0-N/S (100' dipoles)
  - Line 3S " "
  - Line 6S " "
- Mayer 20 Prospect
  - Line 23S (100' dipoles)

In Map Pocket: (Total 3 pieces)
- Induced Polarization Location and Interpretation Plan
- Binghampton Area
- Pennyrich Area
- Mayer 20 Prospect

INTRODUCTION

At the request of Mr. Paul Strobel, of American Selco, Inc., Prescott, Arizona, Heinrichs GEOEXploration Company was contracted to run an induced polarization survey in three areas near Mayer, Yavapai County, Arizona. These areas are designated as the Binghampton, Pennyrich and Mayer 20 Prospect Areas and are located as shown on the three respective plans in the attached map pocket. This work was done during the interim August 19 to September 24, 1975 with Bill Hurley as Crew Chief, supervised by Chris S. Ludwig, Chief Geophysicist.

The purpose of this survey was to detect and delineate any significant subsurface sulfide zones in a massive sulfide volcanogenic environment in the Precambrian Yavapai schist metamorphic complex.

CONCLUSIONS AND RECOMMENDATIONS

Binghampton Area

Anomalous IP response is present in several areas and for the most part correlates with the mapped "marker rhyolite-sulfide zones". The strongest IP response is a moderately strong anomaly in the marker rhyolite on Line 7N directly correlating with the sulfide mineralization at the Belgium shaft. Anomalous response on Lines 8N and 10N indicates that the Belgium mineralization may persist north of the shaft with nearly similar strength - presenting an interesting drill target.

To test this possible north extension, two drill holes are suggested, both collared at 3W on Line 8N. Proposed drill hole #1 is angled -45° to the east to attempt a shallow intersection of the anomalous source approximately between 100 feet and 150 feet below surface. This hole should be programmed for about 250 feet total length to give a representative intersection of the zone of interest and to allow for some uncertainty in dip and location.

Proposed drill hole #2 is suggested at the same site as hole #1 but angled at about -75° to the east to intersect the target zone at a greater depth providing the results of hole #1 are sufficiently encouraging. This hole should be programmed for about 400 feet total length. Similar drilling could be continued northwards along strike to Line 10N if the preliminary results warrant. Additional detailed IP should be run north of Line 10N if drilling is being considered north of Line 10N.

The only other zone of IP response having possibly significant strength is the weak anomaly centered near 10E on Line 8N and its northwest extension to about 8E on Line 10N. This is a low priority target but could be tested

by proposed drill hole #3 collared near 8E on Line 8N and angled about -60° east to intersect the target zone roughly 200 feet below surface - assuming a steep west dip. This hole should be planned for at least 300 feet total length. If this drill hole is encouraging, a similar target is present on Line 10N near 8E to 9E although further detailed IP coverage is perhaps warranted prior to any additional drilling along strike.

Pennyrich Area

A weak but fairly well defined IP anomaly is present on all four lines and shows good correlation with the gossan zone as mapped. Only rather weak sulfides are expected or perhaps very narrow zones of stronger sulfides may be present. Therefore, unless there are associated precious metal or significant non-IP responsive sphalerite concentrations present, this target is considered, geophysically, to have only a poor economic potential. The response on Lines 3S and 3N is slightly stronger and somewhat better defined than on Lines 0-N/S and 6S and is suggested for initial test drilling if drilling is planned.

Proposed drill hole #1 is suggested near 0.5W on Line 3S and angled -60° to the east to test the target slightly above 100 feet in depth where it appears somewhat stronger. This hole should be programmed for about 200 feet total length, assuming a steep west dip. Proposed drill hole #2 is suggested near 1.5W also on Line 3S and angled -60° east to test the same target about 100 feet deeper providing some encouragement is obtained on hole #1. A total hole length of about 300 feet should suffice to intersect the zone of interest unless the dip steepens or reverses direction.

To test the similar anomaly on Line 3N at a depth of about 150 feet proposed drill hole #3 is suggested at 1.5W at an angle of -60° to the east. A total length of about 250 feet should be programmed.

If this initial drilling is at all encouraging, additional IP is recommended on the same grid both to the north and south in that the anomalous response is open-ended in both directions.

Mayer 20 Prospect

No significant appearing IP response is noted correlating with the gossan zone crossed by Line 23S. The gossan produces a pronounced shallow resistivity low between stations 7E and 8E, however. Sulfides, if present are likely too weak or too narrow to respond at the surface or they are buried deeper than the detectibility limit of about 150 to 200 feet below surface.

Unless there are compelling geologic or geochemical reasons to the contrary, no additional work is recommended on this zone at this time.

INTERPRETATION

Binghampton Area

As seen on the interpretation plan, the IP maps the marker rhyolite zone quite well. The three northernmost lines show only very weak or questionably anomalous IP response over the marker rhyolite zones and the north portion of the area is therefore not considered to be of further geophysical interest at this time at least to the 200 to 300 foot depths prospected. The coverage in the south half of the area shows response strong enough to be of potential economic interest, particularly Lines 5N through 10N, and is discussed further.

Line 7N crosses the Belgium shaft mineralization and gives the strongest IP response seen on the survey. The pattern of response suggests a zone of mineralization about 100 to 150 feet wide centered near Station 1W. Depth to sulfides is indicated as being about 50 feet below surface and there

is a strong suggestion that the sulfide zone is depth limited in that the response shows a marked decrease perhaps in the vicinity of 150 feet below surface. It is possible that this is only a response decrease and not necessarily a sulfide decrease below 150 feet, perhaps caused by a more IP responsive environment in the zone of weathering above the water table which is reported to be roughly at 160 feet in this area.

The strength of IP response has been graded as moderate and is compatible with the several percent sulfide by volume noted in drill core from this zone of mineralization. Dip is difficult to estimate but the response is compatible with a steeply dipping but depth limited tabular body.

There is a fairly strong and well defined resistivity low directly associated with the Line 7N anomaly that also appears to be a near surface depth restricted feature. This low is likely the combined effect of the sulfides, their conductive weathering products and associated alteration.

No significant appearing self potential anomalism is noted correlating with the Belgium mineralization, or for that matter, anywhere on this survey. This lack of self potential response suggests a lack of near surface, actively oxidizing, relatively massive (electrically interconnected) sulfide mineralization. This is not in conflict with the IP results which suggest a more dispersed or disseminated degree of sulfide mineralization rather than massive sulfides and this is further supported by inspection of the drill core which shows veinlet and disseminated sulfides as the bulk of the mineralization.

South of the Belgium shaft, the IP response decreases to a poorly defined weak anomaly on Line 5N and to a very weak feature on Line 0=N/S. To the north, however, the anomalous response persists more strongly to

Lines 8N and 10N. These two lines show weak response but they are 200 foot dipole lines which probably would have yielded moderate strength response had 100 foot dipoles been used instead.

As on Line 7N, Lines 8N and 10N show a response suggesting a narrow, shallow and depth limited source. Line 8N gives a slightly stronger and better defined response than Line 10N and therefore initial drilling has been preferentially recommended for Line 8N. These three lines define a NNW strike to the mineralized zone. No plunge component is evident, however, although the rather rough terrain involved makes interpretation quite difficult.

Lines 8N and 10N also define another zone of anomalism near 8E to 10E correlating with a zone of marker rhyolite subparallel to the Belgium zone. This anomaly is weak in strength and again appears to have a shallow and depth limited source. The indicated mineralization may be even more disseminated than the Belgium zone and would appear to be somewhat wider, say 200 or 300 feet in total width.

All evidence so far suggests that the cause of the Binghampton IP anomalism is metallic lustered sulfides such as pyrite and chalcopyrite. However, other metallic lustered polarizers such as certain iron and manganese oxides, graphite or conceivably even clay cannot be completely ruled out as contributing to the untested response.

Pennyrich Area

All four lines show a weak anomaly directly correlating with the mapped gossan zone and suggest a depth of 50 feet or less to the top of the sulfide zone. The pattern of response indicates a source less than 100 feet in width and probably with a steep dip.

As in the Binghampton area, there is some evidence that the source is

depth limited although this possibility is less well defined here. The weak strength of the IP response together with a lack of significant appearing self potential anomalism and only a poorly defined associated resistivity low implies a rather weak disseminated zone of sulfides rather than more massive sulfide mineralization. Of course several very narrow but massive sulfide stringers could give the same response as a more homogeneous disseminated body.

Lines 3S and 3N are slightly stronger and better defined than Lines 0-N/S and 6S, and were therefore selected for initial drilling recommendations.

Because of the direct correlation with a sulfide derived gossan, sulfides are the expected cause of the anomalous IP response. However, response this weak could be caused by iron or manganese oxides, clay or graphite and these possibilities should not be overlooked.

Mayer 20 Prospect

No anomalous IP effects are seen to correlate with the gossan target centered near 7.5E. However, a well defined shallow resistivity low is present over the gossan which is probably the result of the more electrically conductive porous weathered material and perhaps its associated hydrothermal alteration.

Very weak poorly defined IP anomalism is noted near 4.5W and 12E perhaps reflecting minor rock type background effect variations. No anomalous self potential response is noted on the traverse.

PROCEDURES

A GEOEX Mark 7 multi-frequency IP system was employed to obtain this coverage and used a sending frequency pair of 0.3 and 3.0 hz. The standard collinear dipole-dipole array was used with "spreads" of seven sending electrodes each and either 100 or 200 foot dipole lengths. The lines in all three areas were oriented N80°W to E-W to cross the regional strike approximately normal. All stations and line designations are in hundreds of feet and correspond to the Selco field coordinate systems.

All coverage was on 100 foot dipoles except for Lines 8N, 10N and 22N in the Binghampton area where the additional depth penetration of 200 foot dipoles was desired. Sending-receiving dipole separations range from 1 to 6 dipole lengths on all spreads and typically, this should give resolvable depth penetration within the zone from about 1/3 dipole length to as much as about two dipole lengths. On the 100 foot dipole spreads, for example, the penetration would range from about 30 feet to as much as 200 feet below surface. The 200 foot dipole spreads would have twice as much penetration but only one half as much resolution as the 100 foot dipole spreads.

The data are presented on "sectional" data sheets, one for each line showing from top to bottom; resistivity, percent frequency effect (PFE) and metallic conduction factor (MCF) contoured in "sectional" form. Self potential readings taken in conjunction with the IP readings are shown at the bottom of the sheets in profile form. An "Induced Polarization Location and Interpretation Plan" is also included for each of the three areas to overlay the respective Selco geology maps.

Respectfully submitted,
Heinrichs GEOEXploration Co.

Chris S. Ludwig, Chief Geophysicist

P. O. Box 5964
Tucson, AZ 85703

October 9, 1975

Line	(approx.) total length	A =	effective coverage
0	1500'	100'	4 w to 6E
5N	1500'	100'	4 w to 5E
7N	1500'	100'	5 w to 5E
8N	2500'	200'	4 w to 16 E
22 N	2000'	200'	4 w to 10E
28 N	2000'	100'	7 w to 9E
30 N	2000'	100'	8 w to 8E

SQR "STONE QUARRY RHYOLITE"

CMR "COPPER MOUNTAIN RHYOLITE" (Copper Queen Zone)

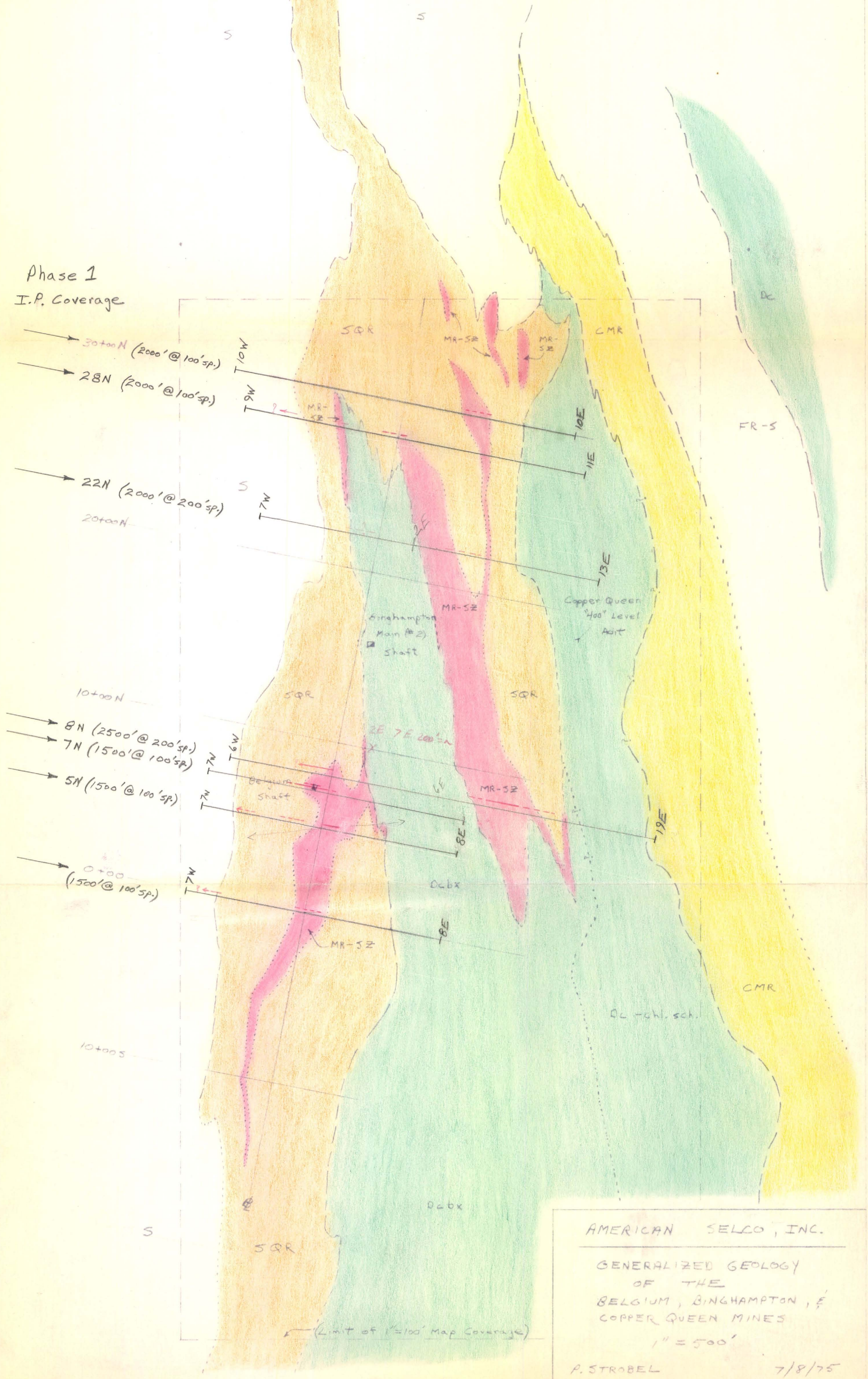
MR - SZ "MARKER RHYOLITE - SULFIDE ZONES" (Areas include zones of minor or disseminated sulfides along with a v.f.g. sil.-chl. "marker rock")

Dcbx Dacite Breccia

Dc -chl. sch. Mixed Areas of dacites, f.g. chl. schists, minor f.g. felsitic rhyolites and sediments (?)

FR-S Fine grained felsitic rhyolites and minor sediments east of Copper Queen Zone

S Mixed Areas of mainly sediments with minor dacites, sed. aglomerates, 'reworked' rhyolites, cherts, jaspillites, and occational narrow felsitic rhyolites.



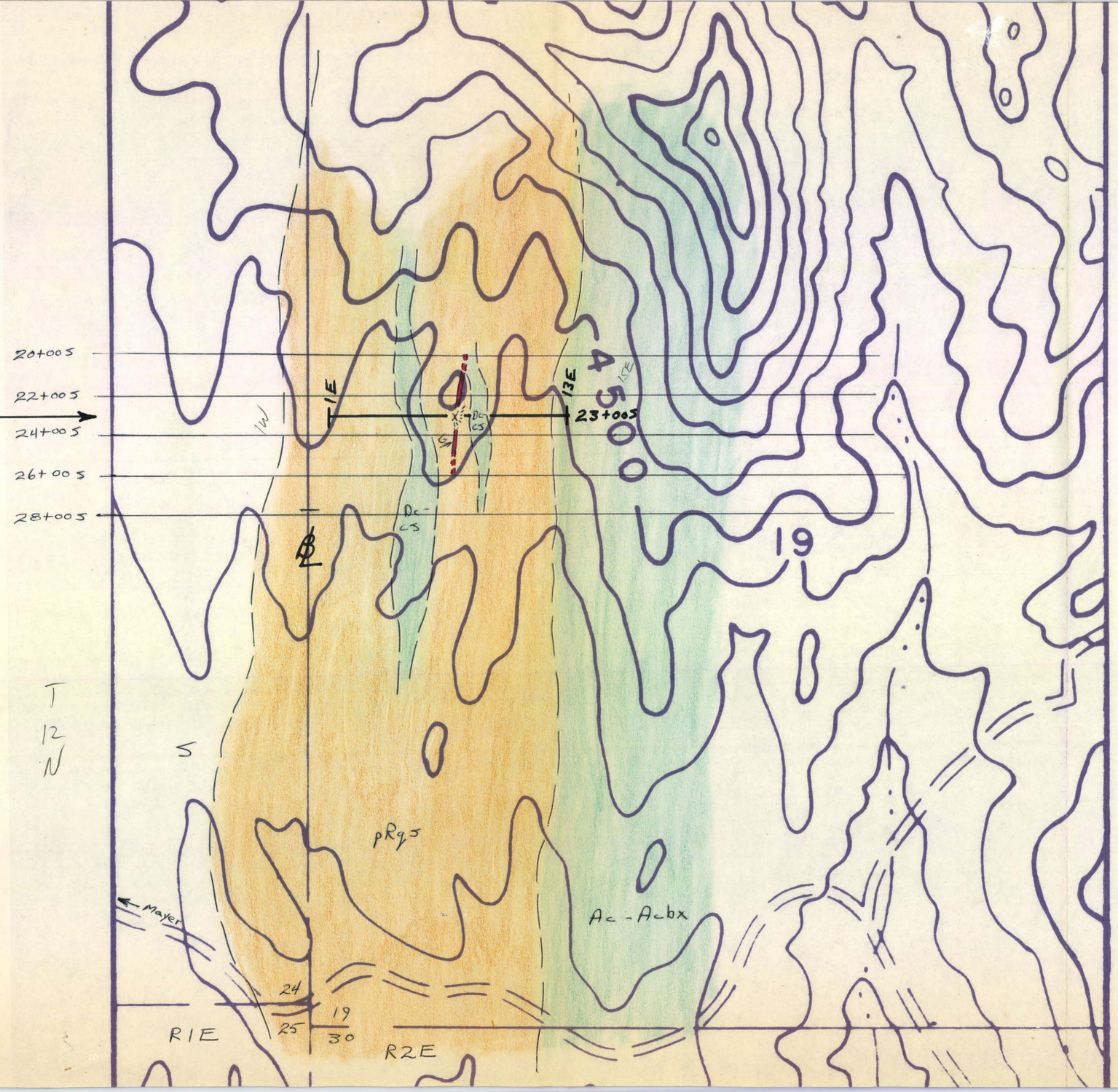
AMERICAN SELCO, INC.

GENERALIZED GEOLOGY OF THE BELGIUM, BINGHAMPTON, & COPPER QUEEN MINES

1" = 500'

P. STROBEL 7/8/75

Proposed I.P. Line
@ 23+00 S
Total length 1200'
(1E to 13E)
A = 100'
Effective coverage
4E to 10E



pRqs — Porph. rhyolite – cleaved to schistose quartz porph. with sericitic groundmass.

Dc-cs — Chloritic dacite & schist – cleaved to schistose chloritic lenses.

Ac-Acbx — chloritic andesite & andesite breccia – massive to cleaved.

S — sediments – mixed unit of seds., fel. Rhy, dacites, cherts.

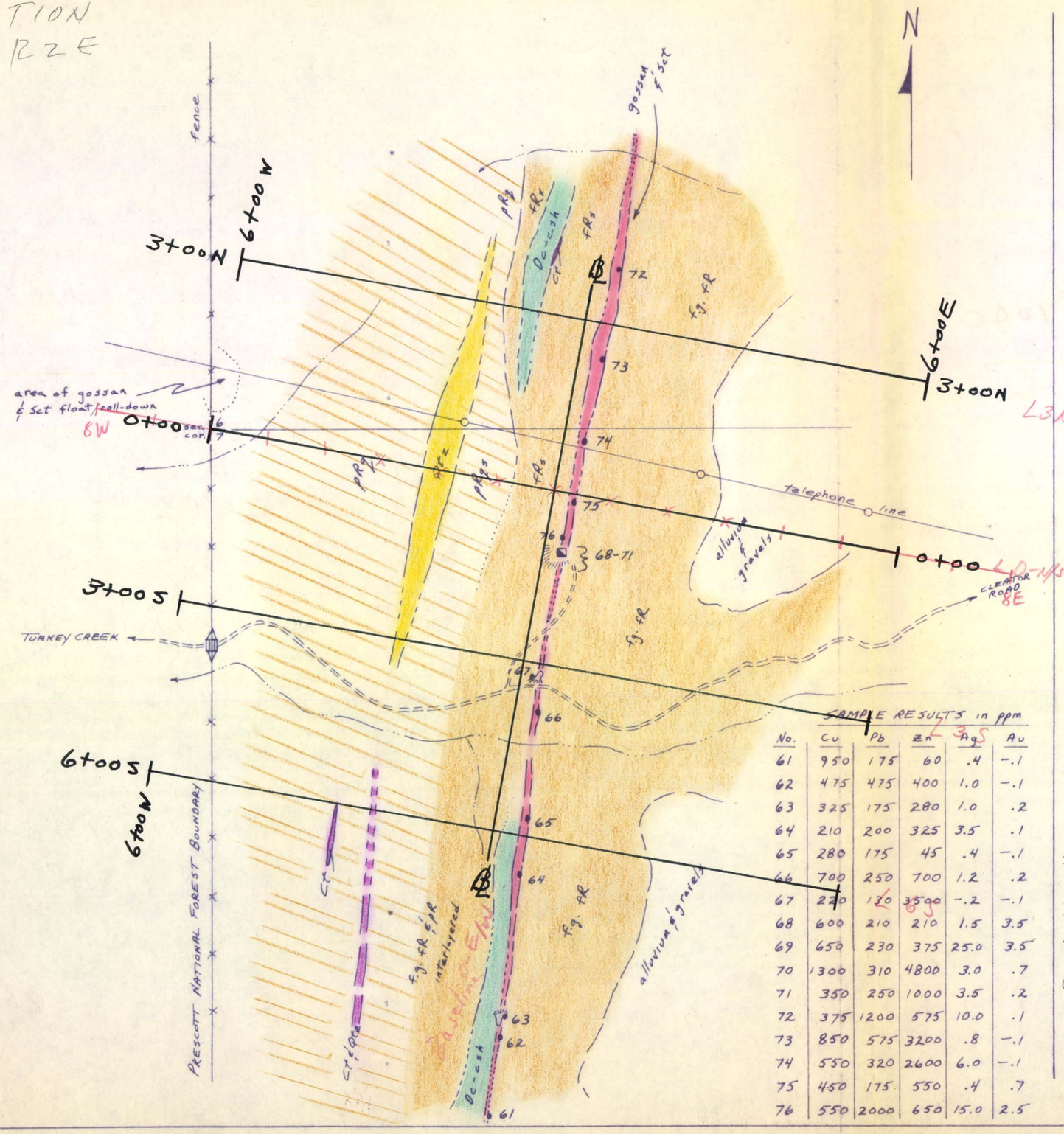
G — Gossan Zone – leached – oxidized sulfide bands and sulfide chert. 20-40% total sulfide content, almost complete leaching on surface.

"X" prospect

AMERICAN SELCO, INC.
GEOLOGIC SKETCH
OF THE
MAYER 20 PROSPECT
Scale: 1"=500'

from orig. recon. map 8/10/74 P.S.

T10N
R2E



SAMPLE RESULTS in ppm

No.	Cu	Pb	Zn	Ag	Au
61	950	175	60	.4	-.1
62	475	475	400	1.0	-.1
63	325	175	280	1.0	.2
64	210	200	325	3.5	.1
65	280	175	45	.4	-.1
66	700	250	700	1.2	.2
67	220	130	3500	-.2	-.1
68	600	210	210	1.5	3.5
69	650	230	375	25.0	3.5
70	1300	310	4800	3.0	.7
71	350	250	1000	3.5	.2
72	375	1200	575	10.0	.1
73	850	575	3200	.8	-.1
74	550	320	2600	6.0	-.1
75	450	175	550	.4	.7
76	550	2000	650	15.0	2.5

EXPLANATION

fR-fRs — Shaley-felsitic rhyolites – mostly very fine grained, shaley, schistose, & cleaved with local banded silica-sericite. Approaching gossan zone unit becomes massive & less cleaved with apparently increasing silica-sericite.

pRq-pRqs — Porphyritic rhyolite – cleaved to schistose quartz porphyry with sericitic groundmass. Locally units are lenticular and mix with fR-fRs.

Dc-csh — Chloritic dacite & schist – cleaved to schistose chloritic units that form thin-discontinuous lenses west of the gossan zone.

Ct — Chert – aphanitic to fine grain quartz occurring as small discontinuous reefs or lenses.

Qtz — Massive-milky vein quartz

Gossan — Zone of moderately to strongly oxidized & leached sulfides, including silicious-limonitic bands indicating >20% sulfide content and disseminated sulfides of <20% in rhyolite & highly silicious material or sulfide chert (Sct).

Alluvium & Gravels — Isolated or "remnant" areas of poorly sorted gravels and soils which cover gently sloping hill crests; producing very limited outcrop exposure within these areas.

shaft — prospect pit or cut

• 75 — Sample location and number – each location was marked by a metal tag on the ground with no's. 1-16 corresponding to sample no's. 61-76 on the map and in assay.

Line	A =	effective coverage
0	100'	3w to 3E
3N	100'	3w to 3E
3S	100'	3w to 3E
6S	100'	3w to 4E

PENNY - RICH CLAIMS
WOODWARD Gossan Zone
Geologic Sketch and Sample Map
scale: 1" = 200'

for AMERICAN SELCO, INC.
by PAUL S. STROBEL
1/7/75

Proposed I.P. Lines & Grid A/o 8/14/75 P.S.

HEINRICHS GEOEXPLORATION COMPANY

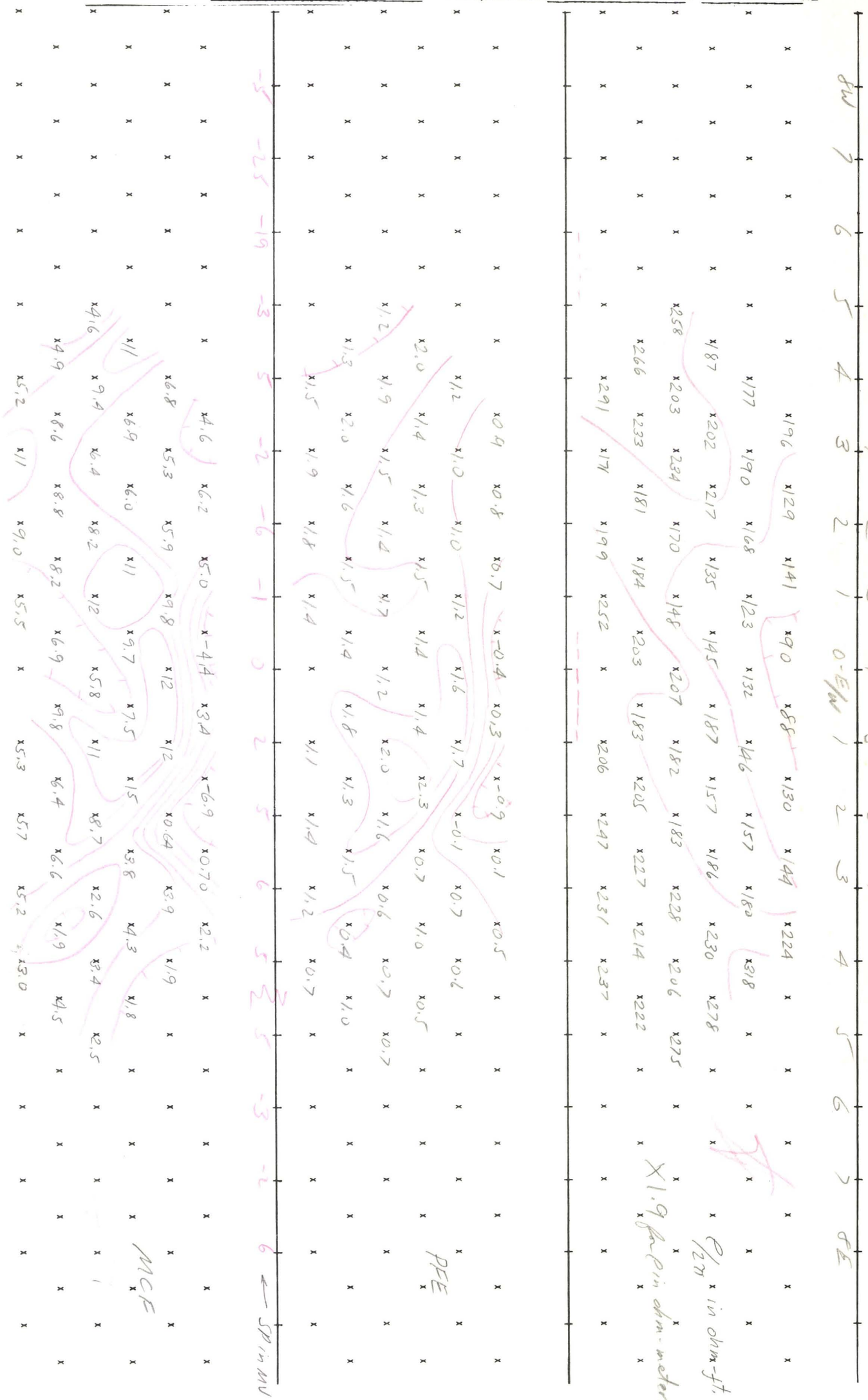
806 W. GRANT RD., P.O. BOX 5964 TUCSON, ARIZ. 85703. PH: (602) 623-0578

JOB # 1040 CLIENT American Soleo, Inc.

DATE August 1975 AREA Binghampton

LINE# 0-N/S SP 1 a= 100' BEARING 180°W

RESISTIVITY FREQUENCIES 3.0 FREQUENCIES 0.3 & 3.0 Hz



HEINRICHS GEOEXPLORATION COMPANY

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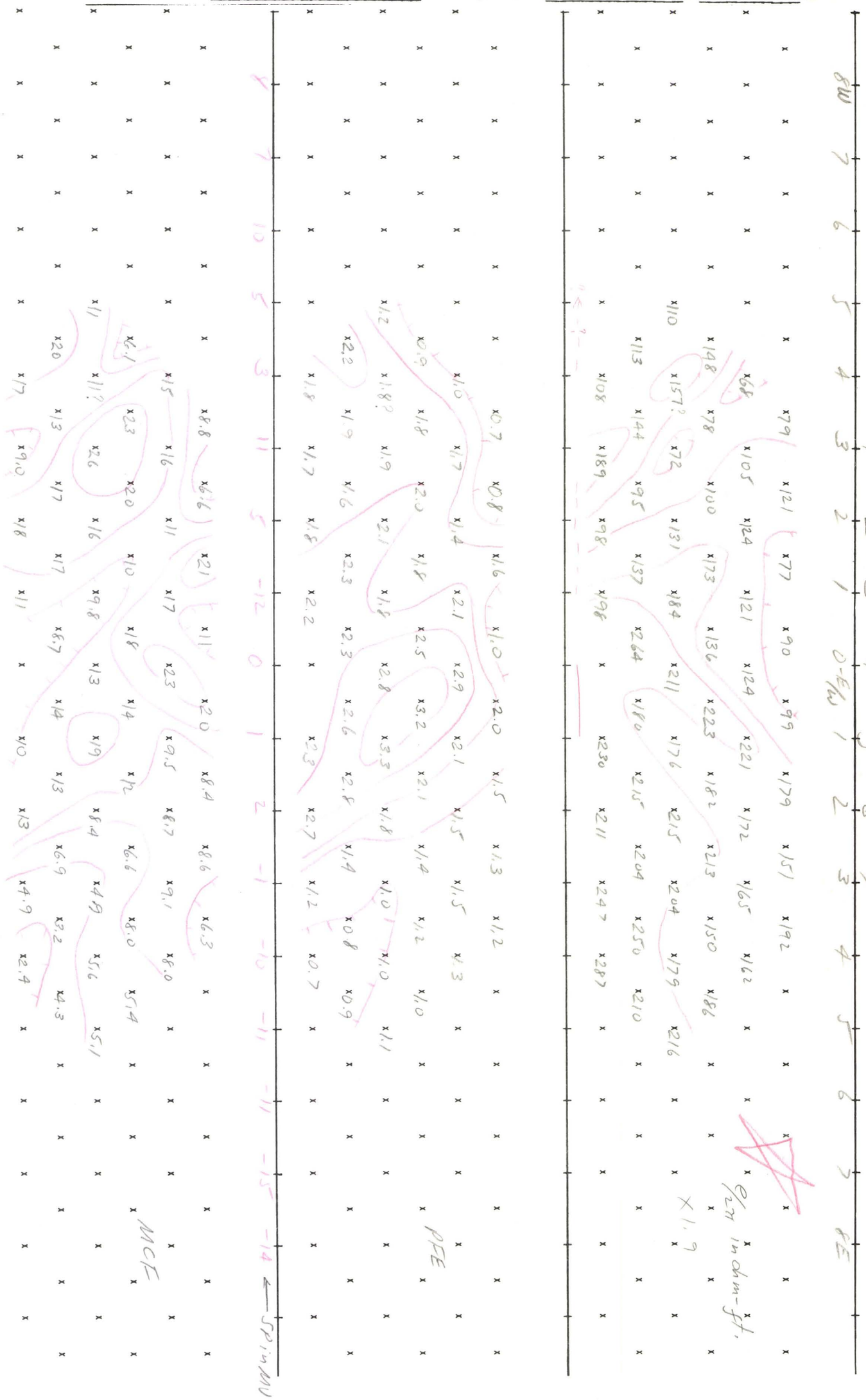
JOB # 1040 CLIENT American Selco, Inc.

DATE August 1975 AREA Binghamton

LINE# 5N SP 1 a= 100' BEARING E-W

RESISTIVITY FREQUENCIES 3.0 FREQUENCIES 0.3 & 3.0 Hz



HEINRICHS GEOEXPLORATION COMPANY

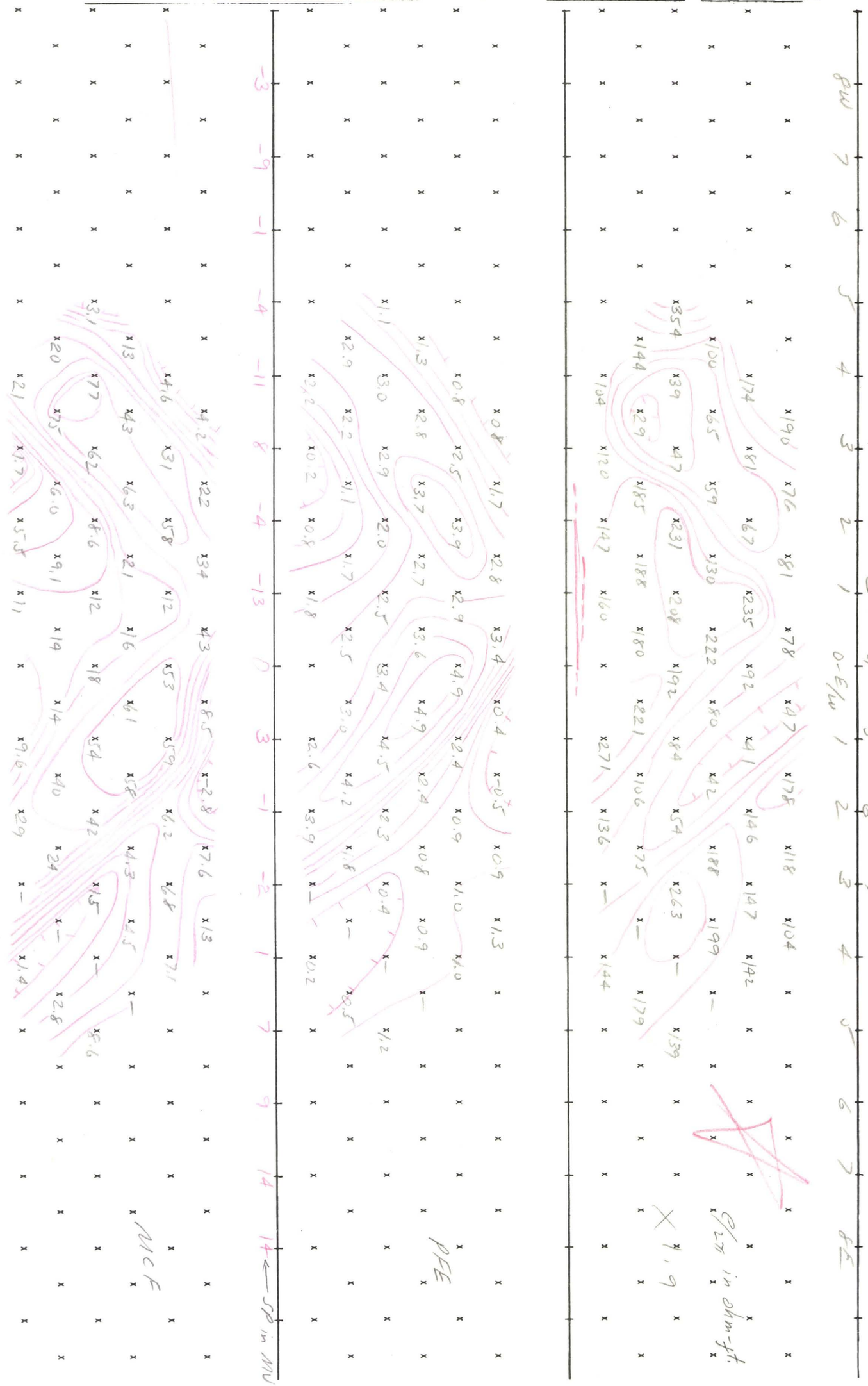
806 W. GRANT RD., P.O. BOX 5964 TUCSON, ARIZ. 85703. PH: (602) 623-0578

JOB # 1040 CLIENT American Selco Inc.

DATE August 1975 AREA Binghampton

LINE# 7N SP 1 a= 100' BEARING 1180°W

RESISTIVITY FREQUENCIES 3.0 FREQUENCIES 0.3 & 3.0 Hz



HEINRICHS GEOEXPLORATION COMPANY

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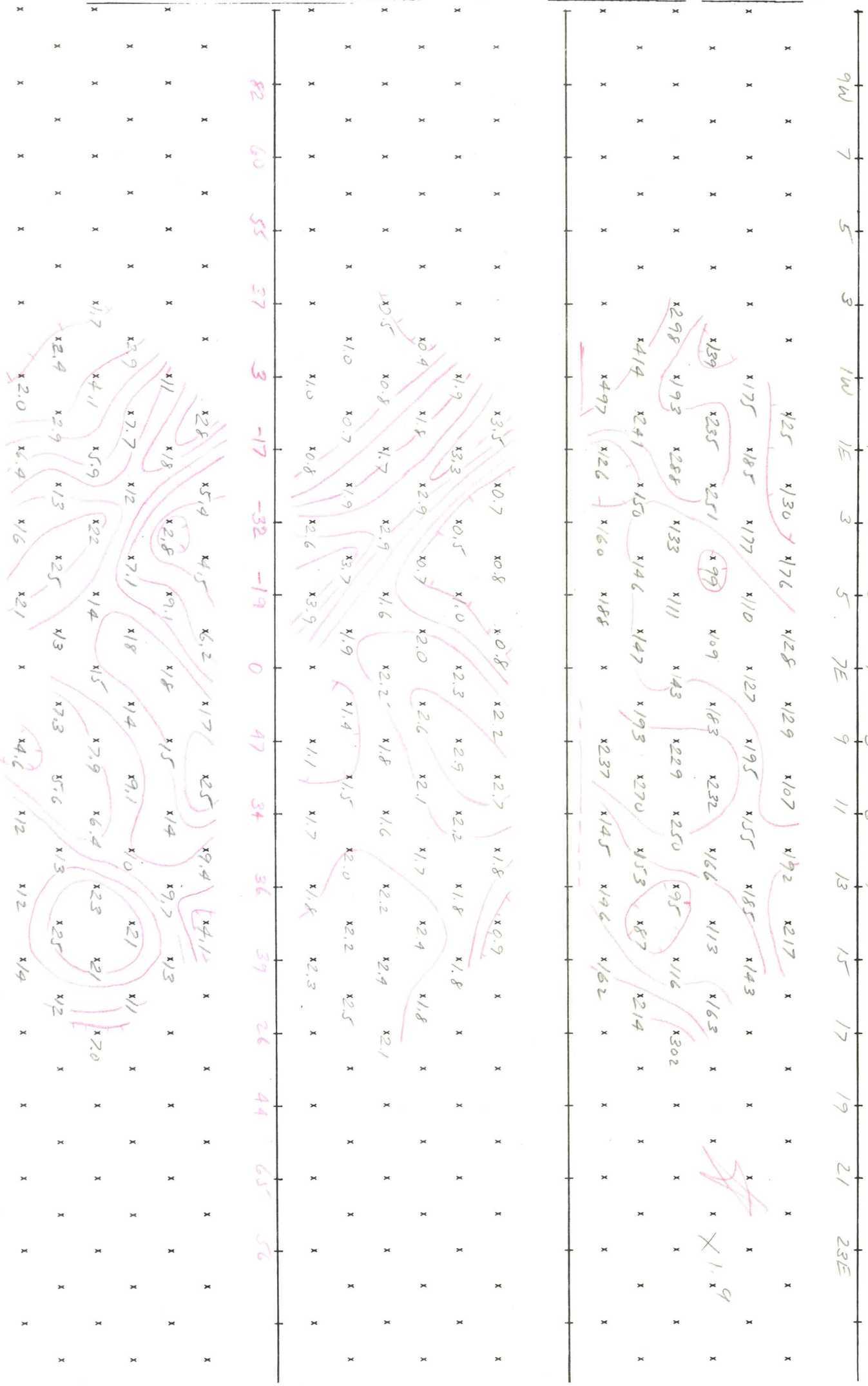
JOB # 1040 CLIENT American Selco, Inc.

DATE August 1975 AREA Binghamton

LINE# 8N SP 1 a= 200' BEARING N 80°W

RESISTIVITY FREQUENCIES 3.0 FREQUENCIES 0.3 & 3.0 Hz



HEINRICHS GEOEXPLORATION COMPANY

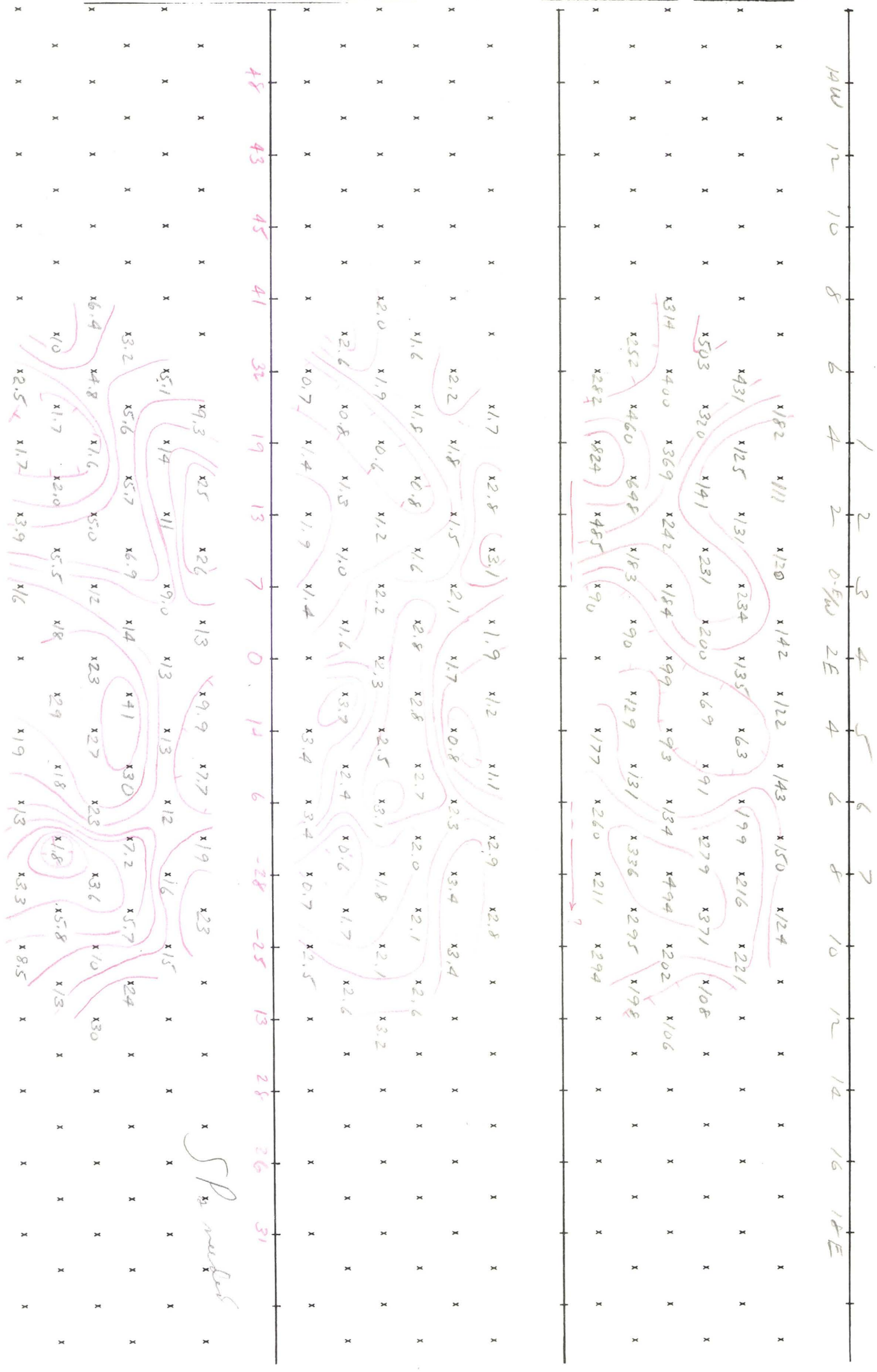
806 W. GRANT RD., P.O. BOX 5964 TUCSON, ARIZ. 85703. PH: (602) 623-0578

JOB # 1040 CLIENT American Selco, Inc.

DATE Sept. 1975 AREA Binghamton

LINE# 10N SP 1 a= 200' BEARING N80°W

RESISTIVITY FREQUENCIES 3.0 FREQUENCIES 0.3 & 3.0 Hz



HEINRICHS GEOEX PLOTTING COMPANY

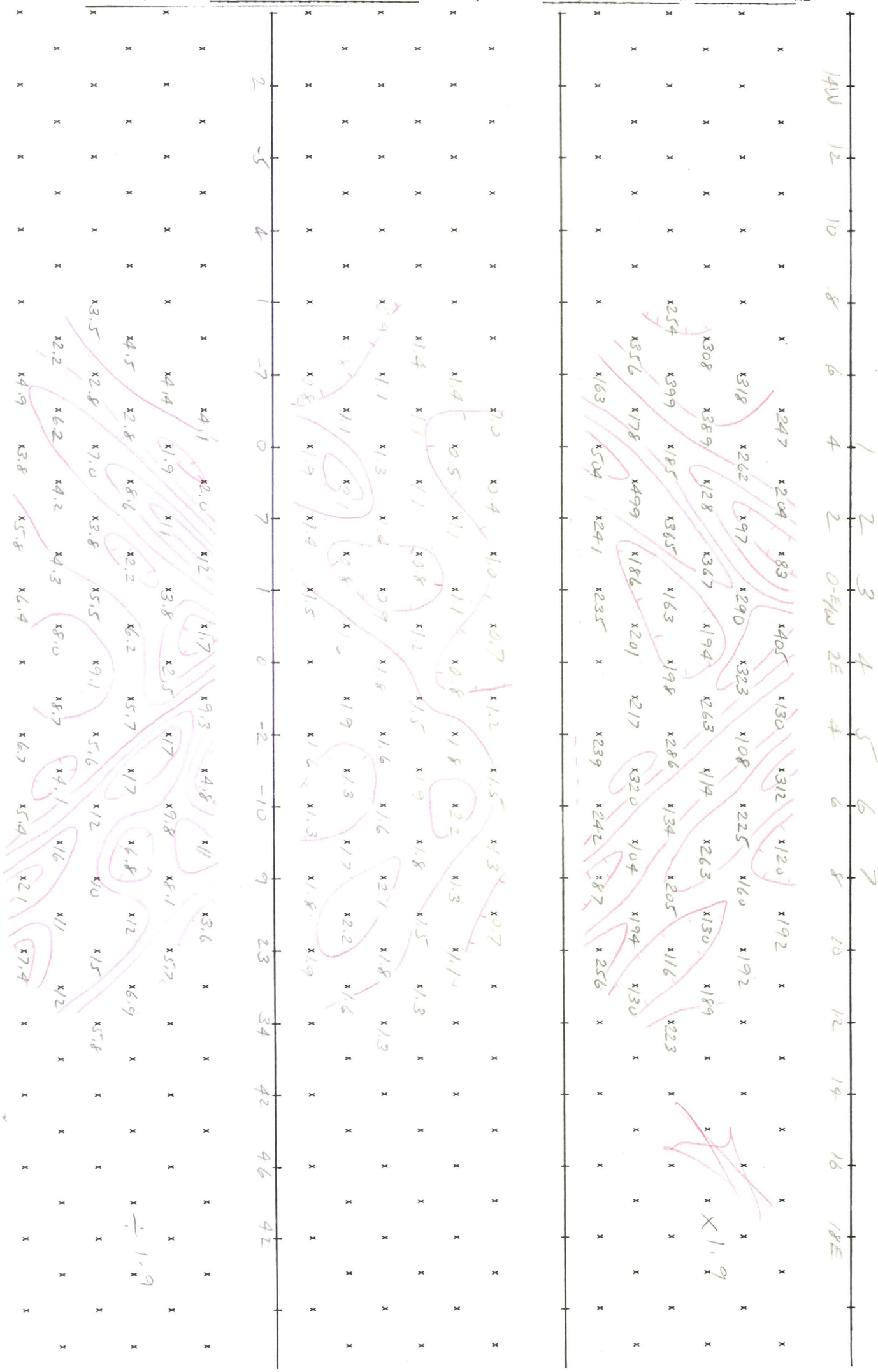
806 W. GRANT RD., P.O. BOX 5964 TUCSON, ARIZ. 85703. PH: (602) 623-0578

JOB # 1040 CLIENT American Selco, Inc

DATE September 1972 AREA Binghamton

LINE# 22N SP 1 a= 200' BEARING N80°W

RESISTIVITY FREQUENCIES 3.0 FREQUENCIES 0.3 & 3.0 Hz



HEINRICHS GEOEXPLORATION COMPANY

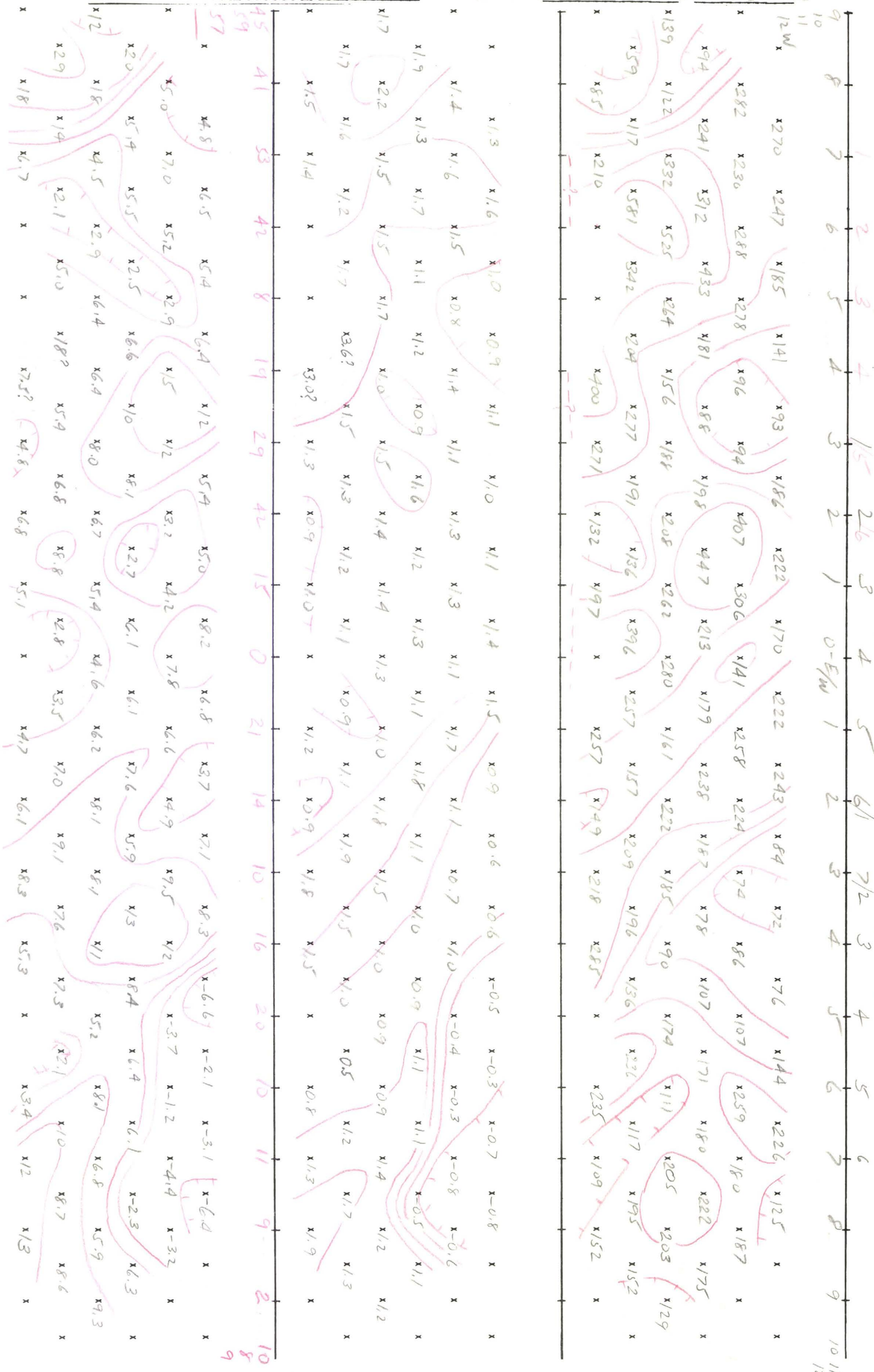
806 W. GRANT RD., P.O. BOX 5964 TUCSON, ARIZ. 85703. PH: (602) 623-0578

JOB # 1040 CLIENT American Selco, Inc.

DATE August 1975 AREA Binghamton

LINE# 28N SP 1, 2 & 3 a= 100' BEARING N 80°W

RESISTIVITY FREQUENCIES 3.0 FREQUENCIES 0.3 & 3.0 Hz



HEINRICHS GEOEXPLORATION COMPANY

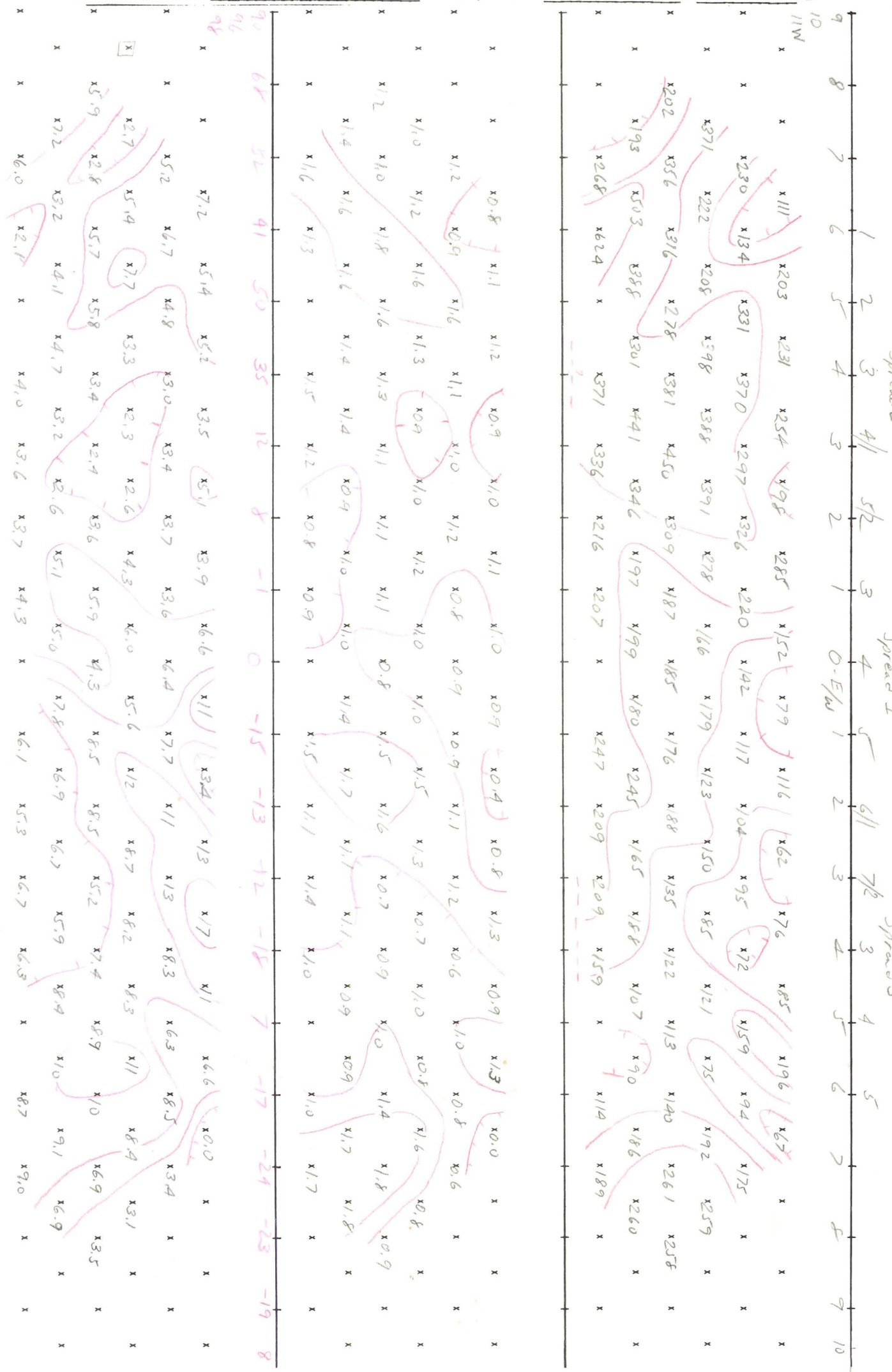
806 W. GRANT RD., P.O. BOX 5964 TUCSON, ARIZ. 85703. PH: (602) 623-0578

JOB # 1040 CLIENT American Selco, Inc.

DATE August 1975 AREA Binghamton

LINE# 30N SP 1, 2 & 3 a= 100' BEARING

RESISTIVITY FREQUENCIES 3.0 FREQUENCIES 0.3 & 3.0 Hz



JOB # 1040 CLIENT

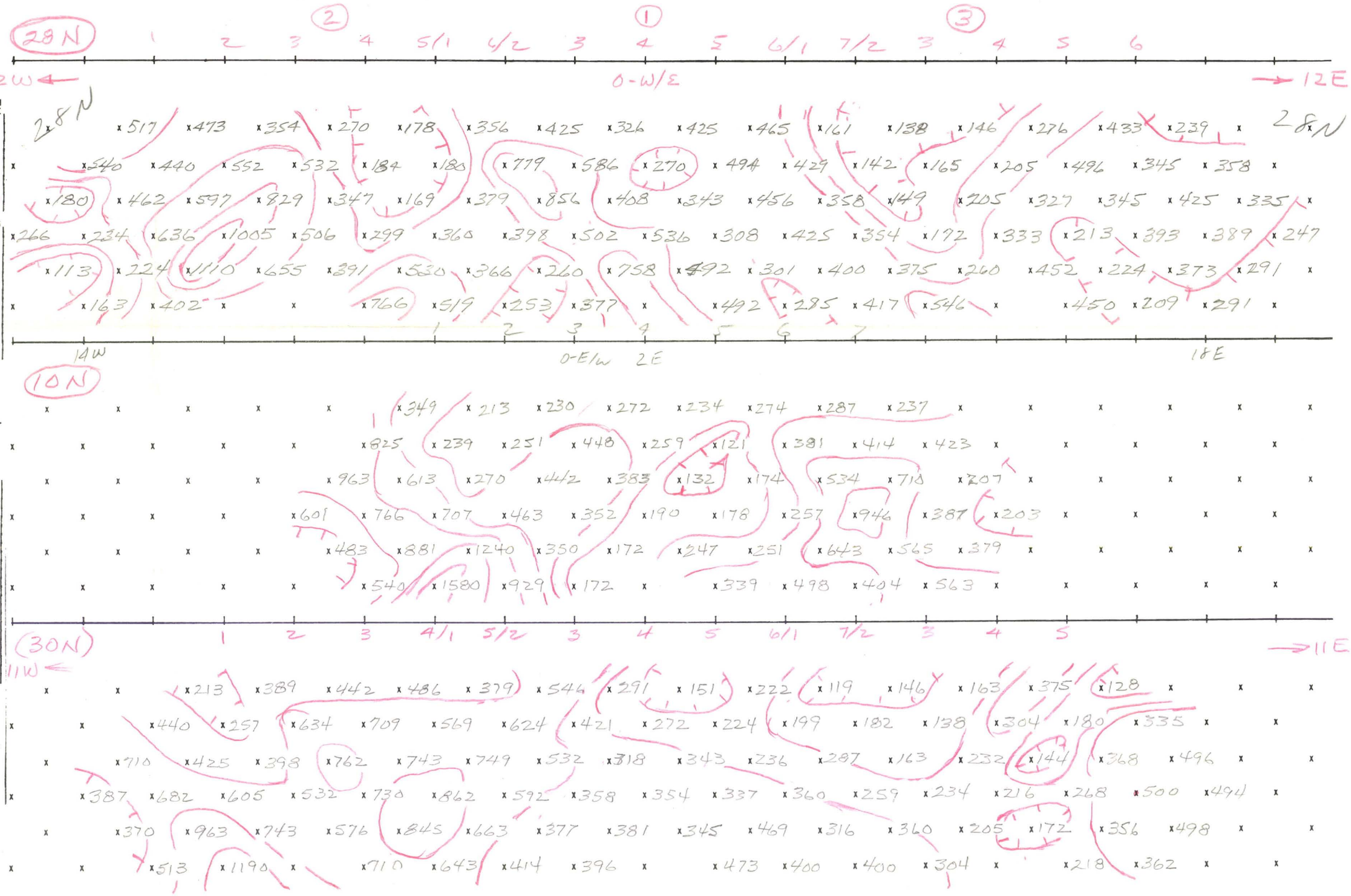
DATE AREA DING

BEARING

a= SP 1283

LINE#

FREQUENCIES Hz & RESISTIVITY FREQUENCIES



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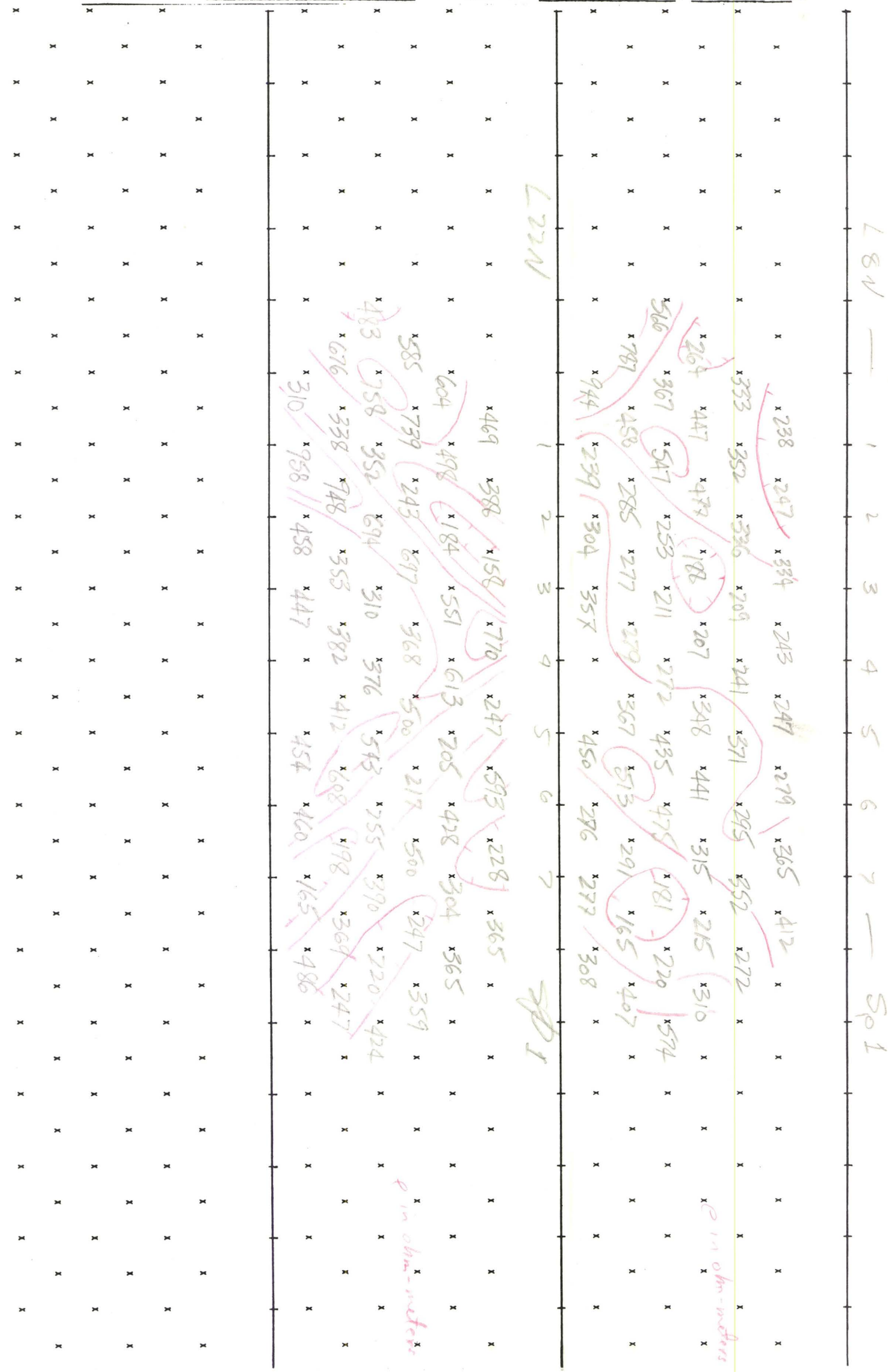
JOB # _____ CLIENT _____

DATE _____ AREA _____

LINE# _____ SP _____ a= _____ BEARING _____

RESISTIVITY FREQUENCIES _____ FREQUENCIES _____ & _____ Hz

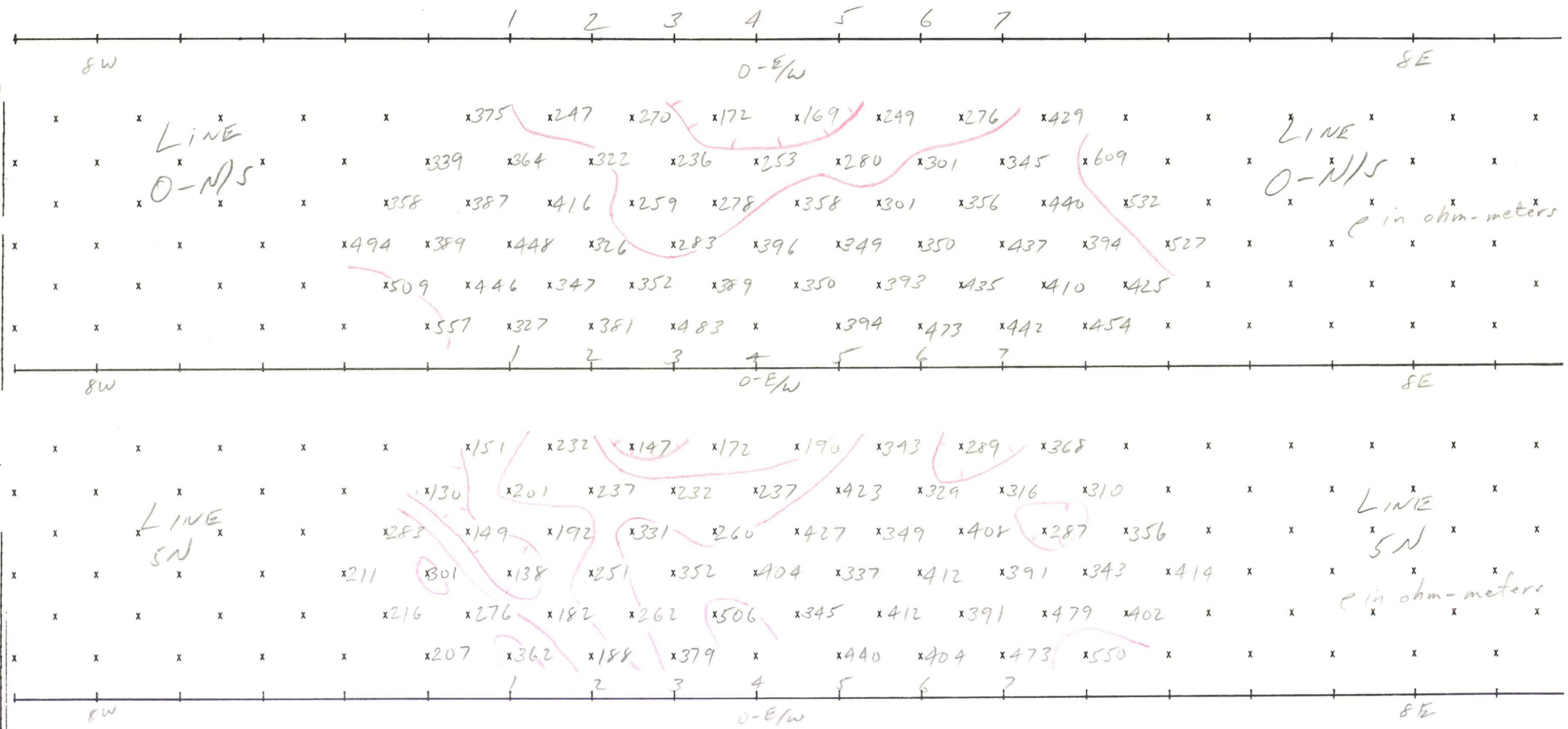


JOB # 1040 CLIENT

DATE AREA

LINE# SP 1 a= BEARING

RESISTIVITY FREQUENCIES & FREQUENCIES Hz



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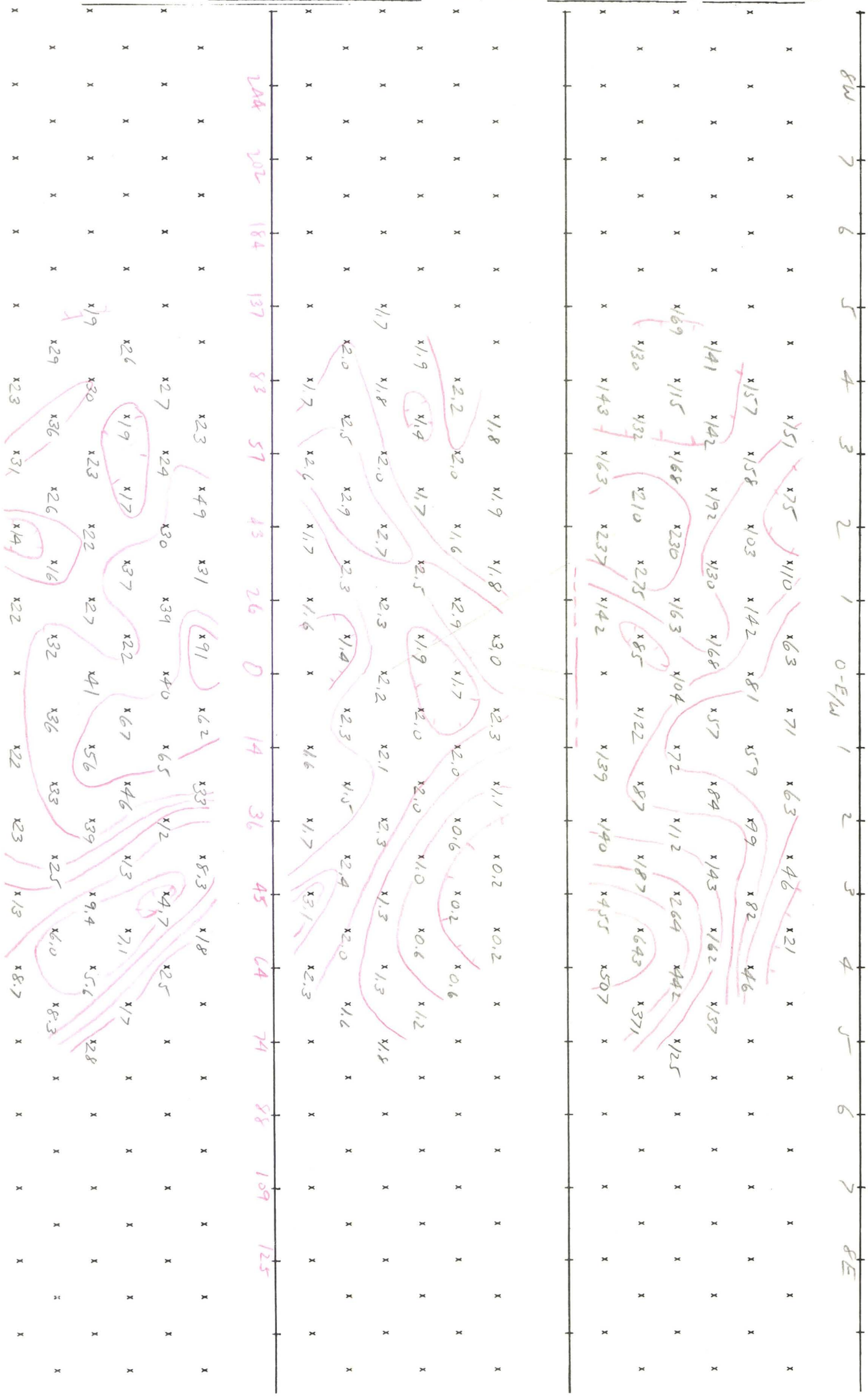
JOB # 1040 CLIENT American Selco, Inc

DATE Sept. 1975 AREA Pennyrich

LINE# 3N SP 1 a= 100' BEARING N80°W

RESISTIVITY FREQUENCIES 3.0 FREQUENCIES 0.3 & 3.0 Hz



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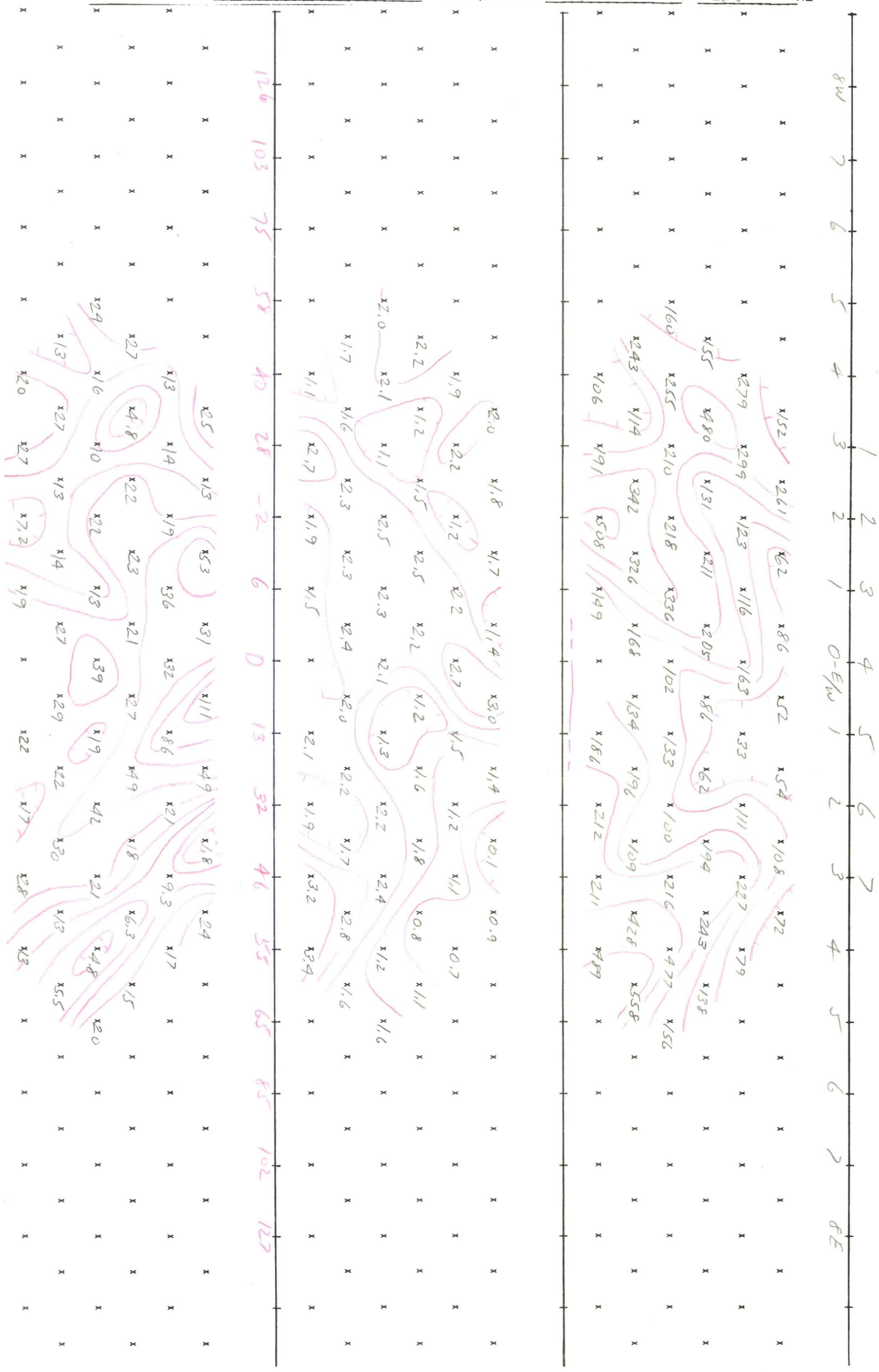
JOB # 1040 CLIENT American Selco, Inc.

DATE Sept. 1975 AREA Pennyrich

LINE# O-N/S SP 1 a= 100' BEARING N80°W

RESISTIVITY FREQUENCIES 3.0 FREQUENCIES 0.3 & 3.0 Hz



HEINRICHS GEOEX PLOTTING COMPANY

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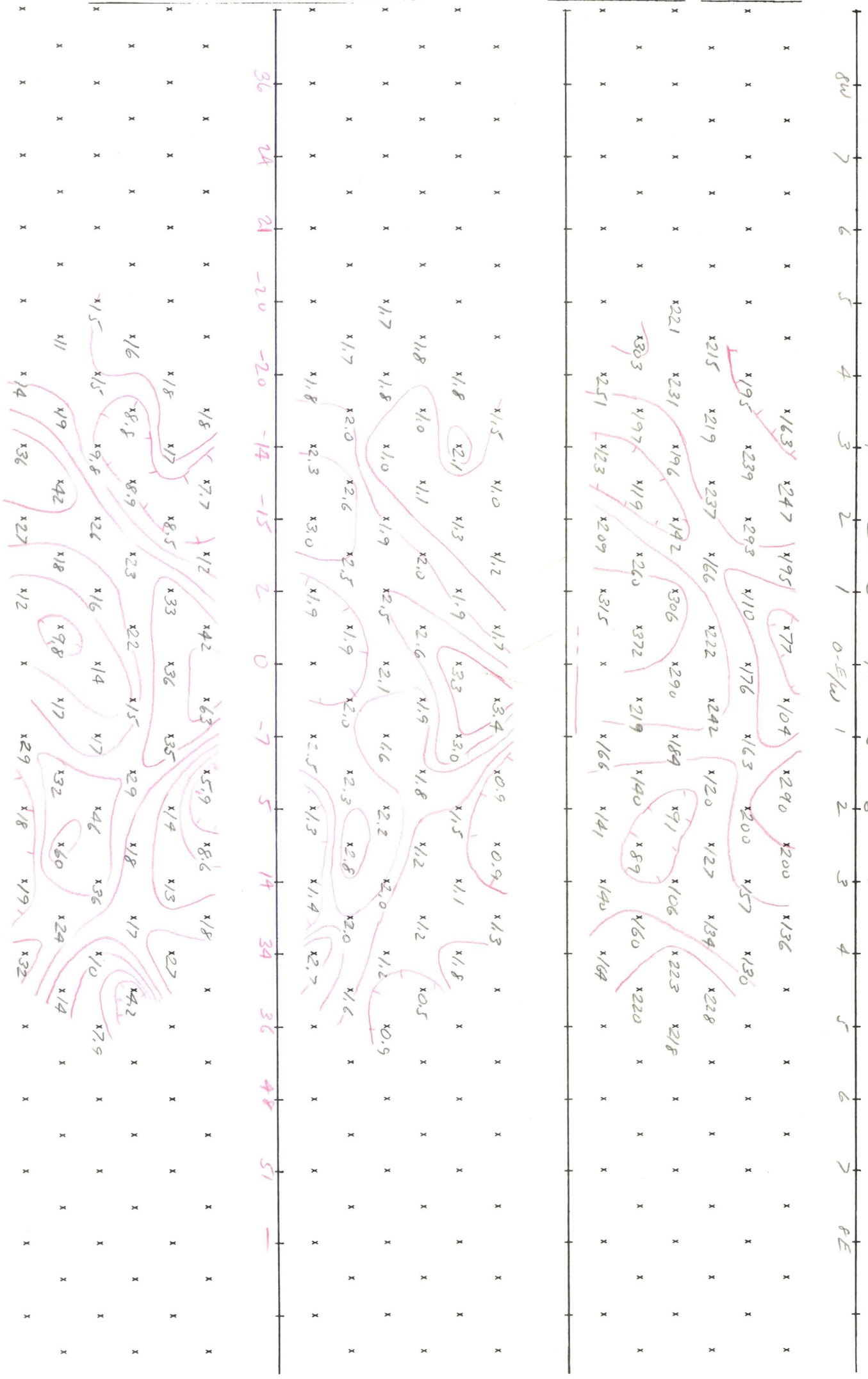
JOB # 1040 CLIENT American Selco, Inc.

DATE Sept. 1975 AREA Pennyrich

LINE# 35 SP 1 a= 100' BEARING N80°W

RESISTIVITY FREQUENCIES 3.0 FREQUENCIES 0.3 & 3.0 Hz



HEINRICHS GEOEX PLOTTING COMPANY

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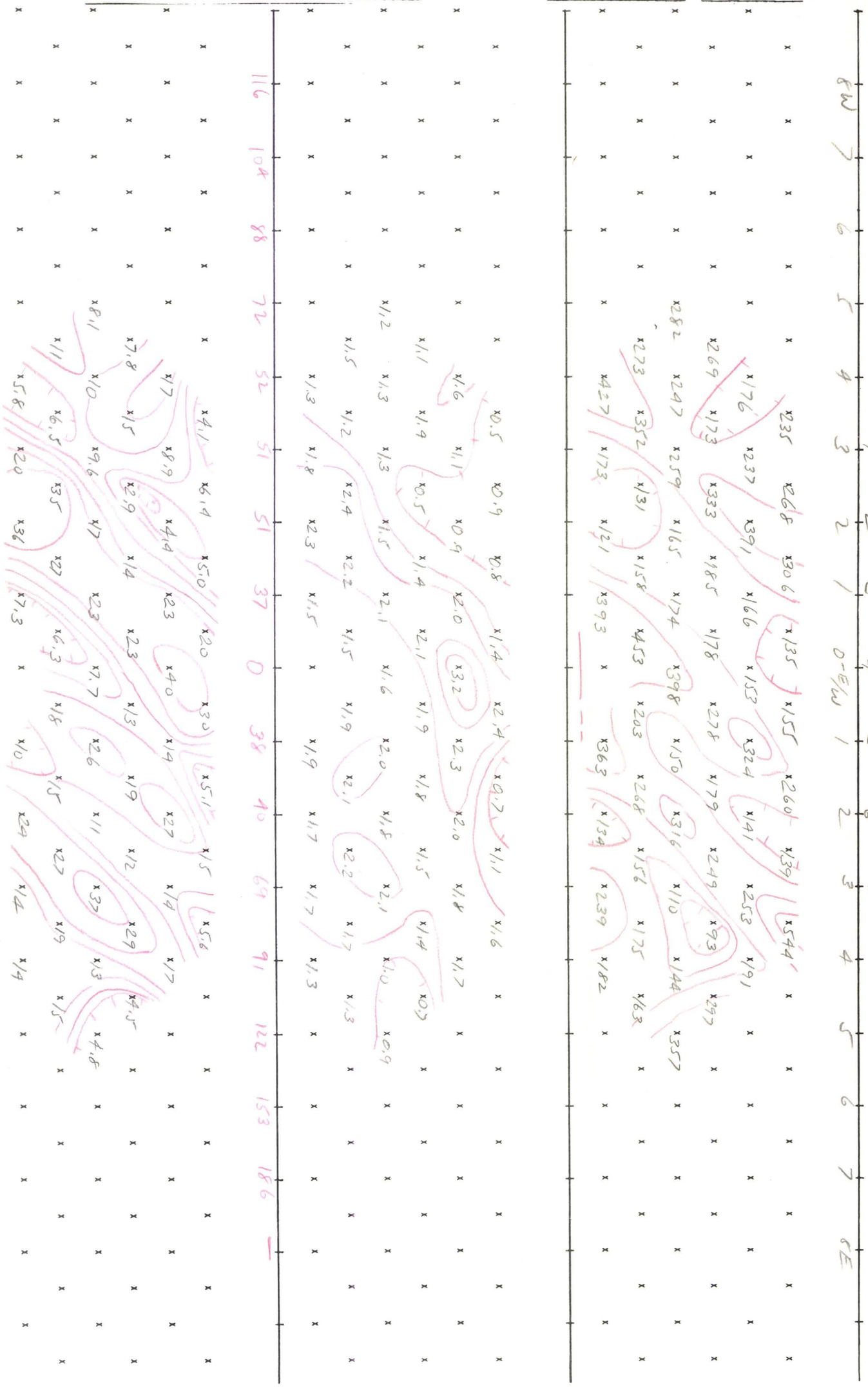
JOB # 1040 CLIENT American Selco, Inc.

DATE Sept. 1975 AREA Pennyrich

LINE# 6S SP 1 a= 100' BEARING N80°W

RESISTIVITY FREQUENCIES 3.0 FREQUENCIES 0.3 & 3.0 Hz



HEINRICHS GEOEX PLOTTION COMPANY

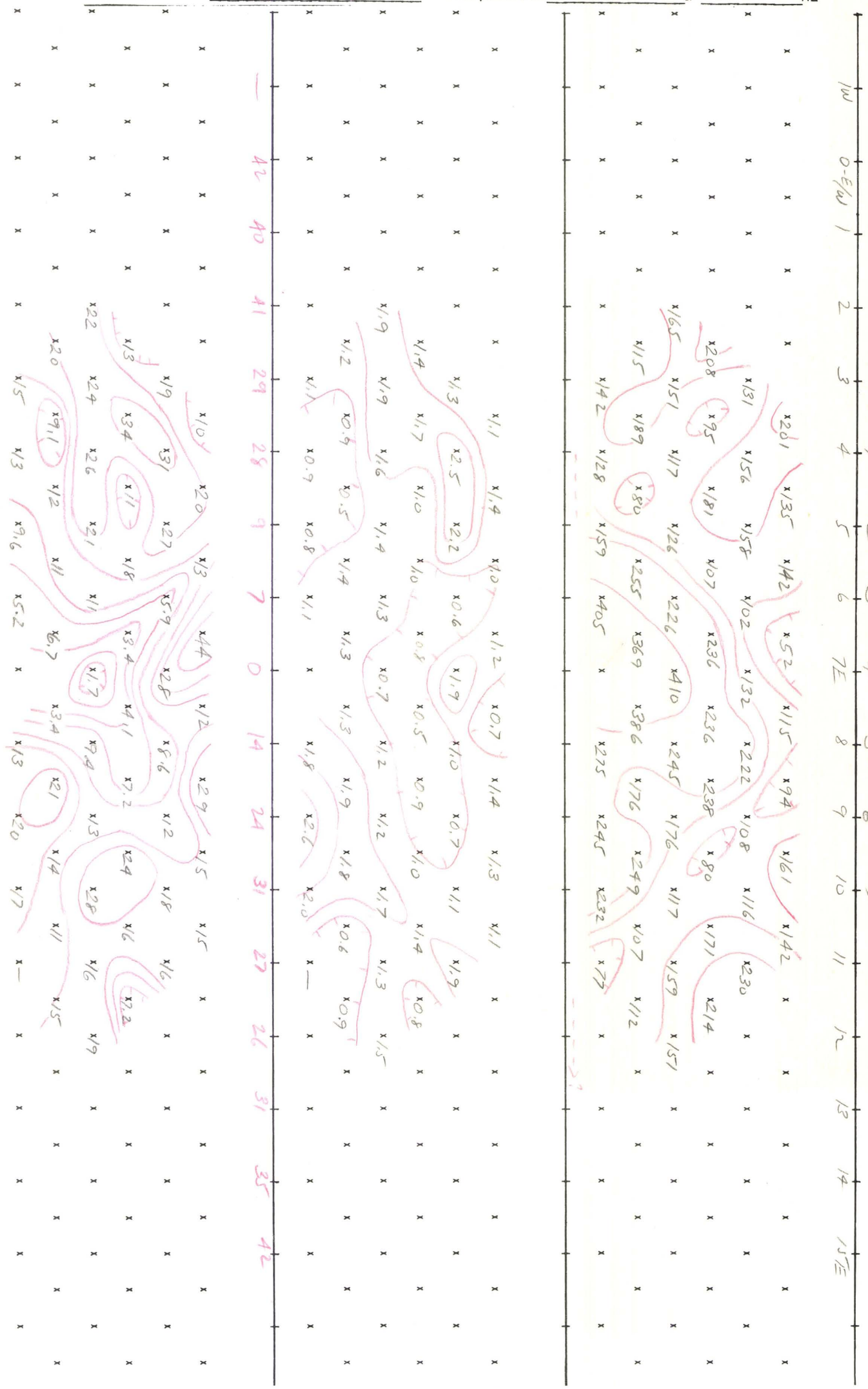
806 W. GRANT RD., P.O. BOX 5964 TUCSON, ARIZ. 85703. PH: (602) 623-0578

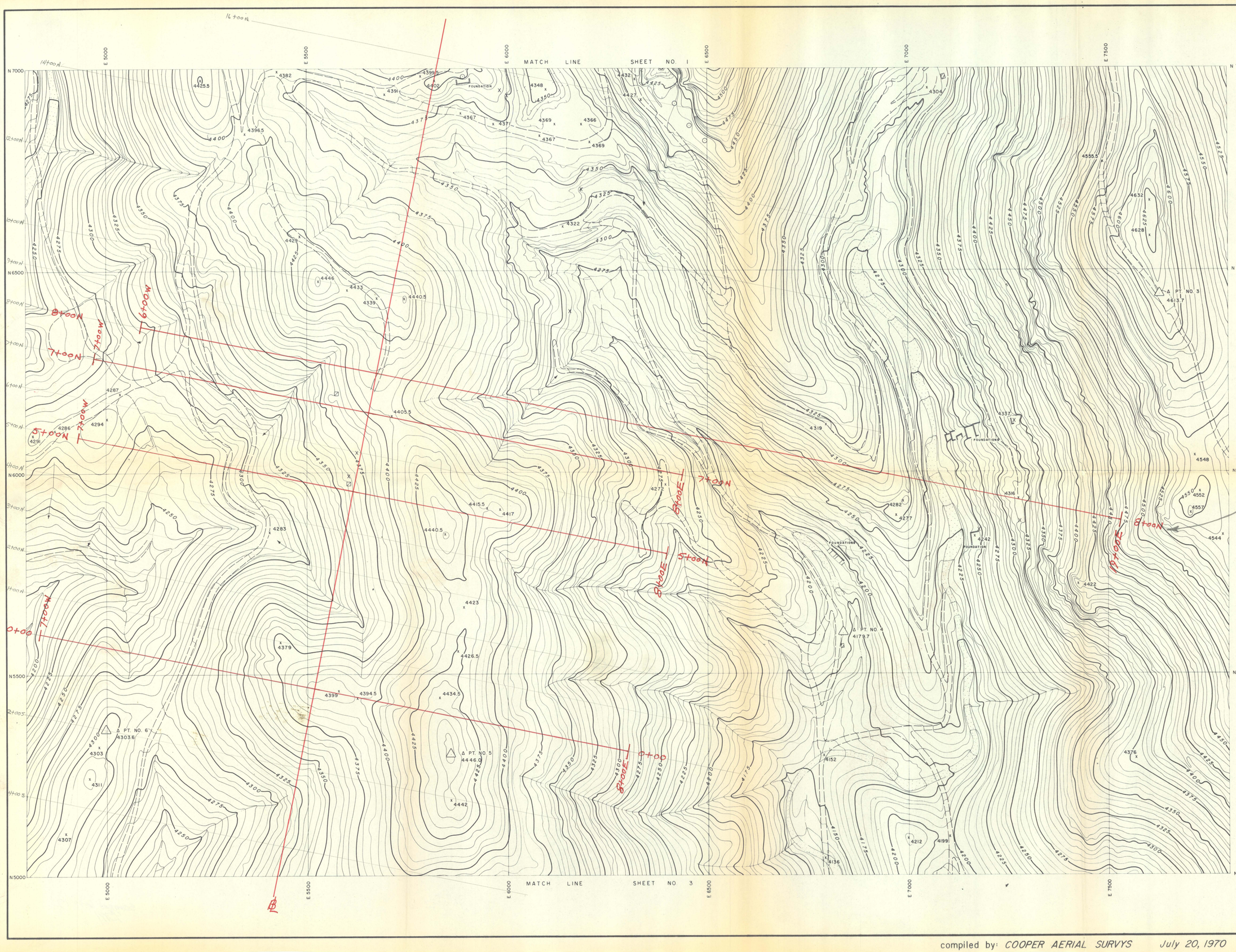
JOB # 1040 CLIENT American Selco, Inc

DATE Sept. 1975 AREA Mayer 20 Prospect

LINE# 23 S SP 1 a= 100' BEARING E-W

RESISTIVITY FREQUENCIES 3.0 FREQUENCIES 0.3 & 3.0 Hz





grid line 8+00N may not have been completed from 7+00E to 19+00E.

Line	Total Length (APPROX)	A =	effective coverage
0+00	1500' (7W to 8E)	100'	4+00W to 6+00E
5+00N	1500' (7W to 8E)	100'	4+00W to 5+00E
7+00N	1500' (7W to 8E)	100'	5+00W to 5+00E
8+00N	2500' 6W to 19E	200'	4+00W to 16+00E

AMERICAN SELCO, INC.

BINGHAMPTON MINE AREA - CENTRAL

PHASE I I.P. COVERAGE

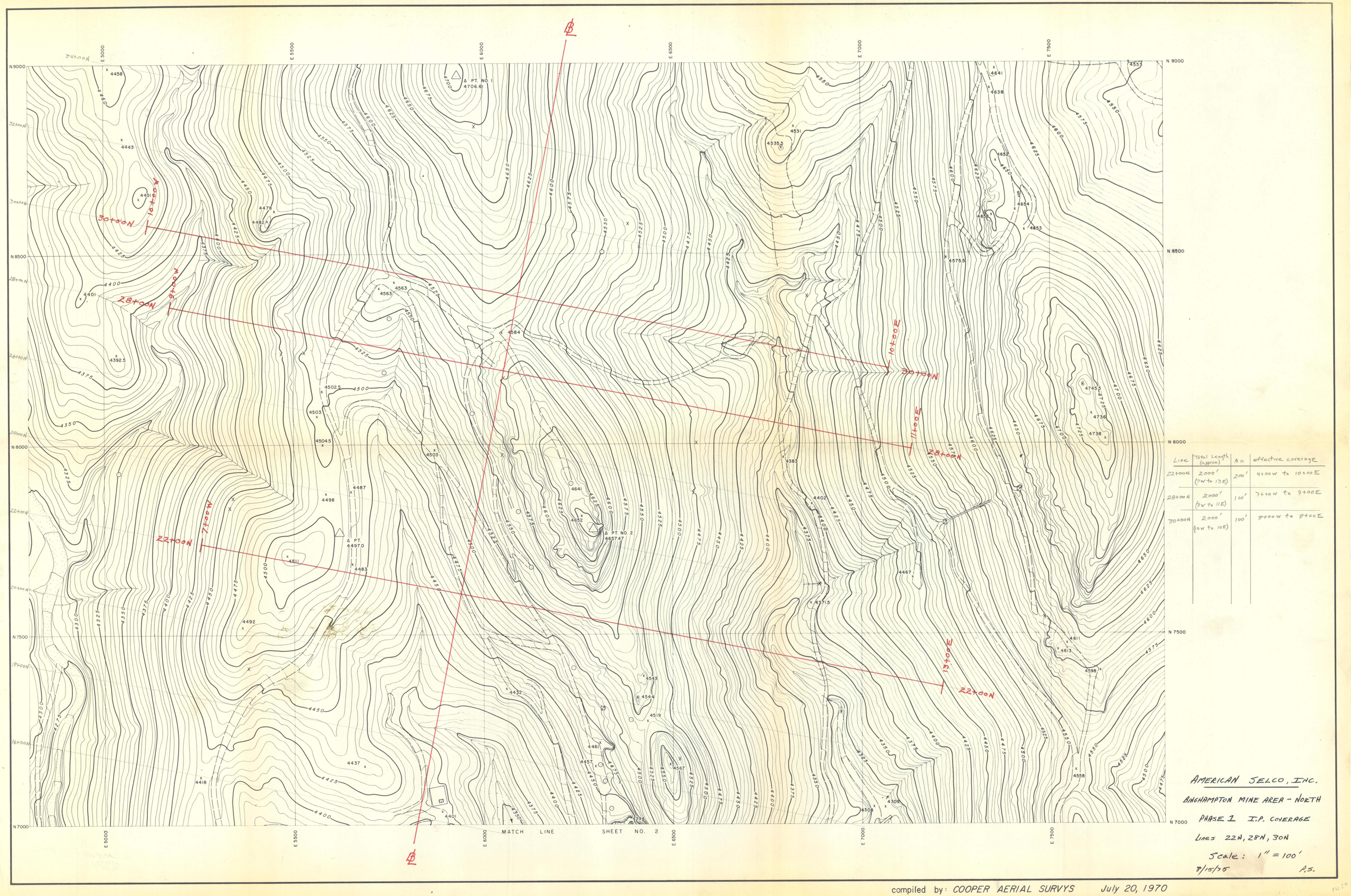
Lines 0, 5N, 7N, 8N

Scale: 1" = 100'

8/15/75 P.S.

compiled by: COOPER AERIAL SURVYS July 20, 1970

Usgs contours



Line	Total Length (approx)	A =	effective coverage
22+00N	2000' (7W to 13E)	200'	4+00W to 10+00E
28+00N	2000' (9W to 11E)	100'	7+00W to 9+00E
30+00N	2000' (10W to 10E)	100'	8+00W to 8+00E

AMERICAN SELCO, INC.

BINGHAMPTON MINE AREA - NORTH

PHASE 1 I.P. COVERAGE

Lines 22N, 28N, 30N

Scale: 1" = 100'

8/15/75 P.S.

compiled by: COOPER AERIAL SURVYS July 20, 1970