HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT COYOTE MT 10-18-67
LINE 3' HALF S SP. 3' DATE

PAGE

SEND	12	23	34	45	12	23	34	45	Col	
RECEIVE	150-165S				165-180S					
RANGE										
DC 1										
DC 2										
DC 3										
DC 4										
DC 5									99	
DC 6									98	
DC 7									99	
DC 8									98	
DC AVG.									197	
AC 1									96	
AC 2									96	
AC AVG.									192	
S.P.	-3.1									
AC NOISE										
POT RES.	500									

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT _____ PAGE

LINE 3' HALF 5 SP. 3' DATE 10/18/84

SEND	45	34	45	23	34	45	12	23	34	45
RECEIVE	90-105S	105-120S		120-135S			135-150S			
RANGE	Hi									
VOLTAGE	500 V	515V	496V	510V	514V	498V	500V	508V	515V	498V
CURRENT	6.75A	5.1A	6.75A	4.5A	5.1A	6.75A	5.85A	4.5A	5.1A	6.75A
SEND	12	23	34	45	12	23	34	45		Col
RECEIVE	150-165S				165S-180S					12
RANGE										HI
VOLTAGE										378V
CURRENT										1.0A

FREQUENCIES .05 1.0

SENDER NO. 66445

OPERATOR F. Oviedo IV.

RECEIVER NO.

OPERATOR J. King

COMMENTS:

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT COYOTE MT 10-19-67
LINE 3' HALF S SP. 3' DATE

PAGE

SEND	12	23	34	45	12	23	34	45	Cal	
RECEIVE	150 -	165	—	—	165 -	180 S	—	—	300	
RANGE	10	3	3	3	3	3	1	1		
DC 1	498 428	209 215	140 140	119 95	186 217	116 112	64 91	66 68		
DC 2	440 438	210 226	136 127	116 108	185 224	111 109	70 73	68 71		
DC 3	441 434	196 219	136 129	119 100	178 219	104 118	82 74	66 68		
DC 4	446 425	204 229	140 130	116 104	186 225	110 101	72 85	67 69		
DC 5	450 424	199 221	140 130	123 110	155 229	119 97	79 61	67 69	206	
DC 6	451 420	206 230	138 127	120 100	194 231	116 107	78 60	65 67	206	
DC 7	452 420	195 226	143 125	125 97	164 237	118 100	86 72	68 66	206	
DC 8	460 420	217 206	145 112	129 90	174 220	106 98	93 66	71 65	206	
DC AVG.	8.75	4.26	2.72	2.22	4.02	2.19	1.54	1.348	412	
AC 1	4.08	1.94	1.20	0.97	1.80	0.97	0.68	0.57	204	
AC 2	4.06	1.93	1.19	0.96	1.81	0.98	0.68	0.57	205	
AC AVG.	8.14	3.87	2.39	1.93	3.61	1.95	1.36	1.14	409	
S.P.	+1.5	—	—	—	-4.5	—	—	—		
AC NOISE	<.2	—	—	—	<.1	—	—	—		
POT RES.	500	—	—	—	700	—	—	—		
	16.7	19.3	13.5	14.2	19.6	11.5	12.4	17.4	993	

1 2	2 3	3 4	4 5	1 2	2 3	3 4	4 5
418 456	216 209	121 146	109 125	173 215	114 98	88 66	60 76
422	217 224	124 164	101 109	169 226	120 109	88 76	68 69
	187 226	123 135	102 116	183 240	110 105	81 68	62 70
	211	141 142	107 116	165	126 98	80 82	66 71
		140 146	108 120				62 74
		139 135	100 116				61
		137 134	106				
		144					

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Coyote

LINE 3' HALF S SP. 3' DATE 10/19/69

PAGE

SEND	12	23	34	45	12	23	34	45		Cal
RECEIVE	150-165 S				165-180 S					12
RANGE	Hi	Low	Hi	Hi	Hi	Low	Hi	Hi		Hi
VOLTAGE	492 V	561 V	495 V	432 V	494 V	560 V	495 V	432 V		190 V
CURRENT	5.7 A	5.0 A	5.0 A	6.0 A	5.7 A	5.0 A	5.0 A	6.0 A		2. A.
SEND										
RECEIVE										
RANGE										
VOLTAGE										
CURRENT										

FREQUENCIES .05 1.0

SENDER NO. 6644-S

OPERATOR F. O. Fr.

RECEIVER NO. 1066I-R

OPERATOR J. K.

COMMENTS:

12 30x 90 ma + 100 ma

23 30x 66 ma + 100 ma

34 30x 66 ma + 100 ma

45 30x 00 ma + 200 ma.

a = 1500' f = 1 hz

HEINRICHS GEOEXPLORATION COMPANY

INDUCED POLARIZATION SURVEY COMPUTATION SHEET

Page_____

Project Yecla Line J' N½ Field date_____ Data page_____ Comp. date_____. Comp by_____

(A) Send	1-2	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2		
(B) Receive	90-75	75-60	→	60-45	→	→	45-30	→	→	→		
(C) n separation												
(D) I	6.0	4.5	6.0	5.1	4.5	6.0	6.9	5.1	4.5	6.0		
(E) Vdc (avg)	34.2	28.4	9.91	37.8	8.09	5.28	46.0	6.64	2.65	2.36		
(F) DCcal	0.488	→	→	→	→	→	→	→	→	→		
(G) Kn x 10^{-3}	4.5	4.5	18	4.5	18	45	4.5	18	45	90		
(H) ρ dc=ExFxGx10^3/D	13	14	15	16	16	19	15	11	13	17		
(I) Vac Σ	33.0	27.3	9.30	36.8	7.44	4.85	44.8	6.36	2.45	2.10		
(J) AC noise x 2												
(K) Vac(corr) = $\sqrt{I^2 - J^2}$												
(L) AC-DC cal.	0.995	→	→	→	→	→	→	→	→	→		
(M) ρ dc/ρac=ExL/K												
(N) PFE=(M-1)(10^2)	3.1	3.5	6.0	2.2	7.1	8.3	2.2	3.9	7.6	11.8		
(O) MCF=(M-1)(10^5)/H	200	250	400	138	444	437	147	255	545	694		

avgs 2.6 3.5 6.0

Project_____ Line_____ Field date_____ Data page_____ Comp. date_____ Comp by_____

(A) Send	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2		CAL		
(B) Receive	30-15	→	→	→	15-0 N/S	→	→	→				
(C) n separation												
(D) I	6.75	5.1	4.5	5.185	6.75	5.1,772	4.5	5.85		2000		
(E) Vdc (avg)	7.34/7.16	2.26	1.283	1.320	4.48	1.832	1.144	1.168		410		
(F) DCcal	←									0.488		
(G) Kn x 10^{-3}	18	45	90	157.5	45	90	157.5	252				
(H) ρ dc=ExFxGx10^3/D	9	10	13	17	15	16	20	25				
(I) Vac Σ	6.94/6.80	2.05	1.125	1.110	4.09	1.540	0.970	1.030		408		
(J) AC noise x 2												
(K) Vac (corr) = $\sqrt{I^2 - J^2}$												
(L) AC-DC cal.	←									0.995		
(M) ρdc/ρac =ExL/K	5 avgs					14.5 ↓						
(N) PFE=(M-1)(10^2)	5.2/4.8	9.7	13.5	18.3	9.0	18.4	17.3	12.8 ?				
(O) MCF=(M-1)(10^5)/H	556	970	1040	1080	600	906 ?	865	512 ?				

f = 1 hz

a = 1500

HEINRICHS GEOEXPLORATION COMPANY

INDUCED POLARIZATION SURVEY COMPUTATION SHEET

Page_____

Project Hecla-Coyote Line 3 S½ Field date_____ Data page_____ Comp. date_____. Comp by_____

(A) Send	4-5	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5		
(B) Receive	90-105	105-120	→	120-135	→	→	135-150	→	→	→		
(C) n separation												
(D) I	6.75	5.1	6.75	4.5	5.1	6.75	5.85	4.5	5.1	6.75		
(E) Vdc (avg)	47.3	28.4	11.23	22.9	8.03	5.92	30.9	6.94	4.53	366/8.96	3.61 3.7	4
(F) DCcal	0.508	→	→	→	→	→	→	→	→	→	→	
(G) Kn x 10^{-3}	4.5	4.5	18	4.5	18	45	4.5	18	45	90		
(H) ρ dc=ExFxGx10^3/D	15	13	15	12	14	20	12	14	20	25		
(I) Vac Σ	41.2	27.4	10.44	22.2	7.56	5.24	29.8	6.42	4.10	3.40		
(J) AC noise x 2												
(K) Vac(corr) = $\sqrt{I^2 - J^2}$												
(L) AC-DC cal.	0.985	→	→	→	→	→	→	→	→	→		
(M) ρ dc/ρac=ExL/K												
(N) PFE=(M-1)(10^2)	3.5	2.1	6.0	1.6	4.6	11.3	2.1	6.5	8.8	14.7? → 4.6		
(O) MCF=(M-1)(10^5)/H				133	329	565	175	464	440	588?		

Project_____ Line_____ Field date_____ Data page_____ Comp. date 2nd 1st day Comp by_____

(A) Send	1-2	2-3	3-4	4-5	12	23	34	45	C+L	C-L		
(B) Receive												
(C) n separation												
(D) I	5.7	5.0	5.0	6.0	5.7	5.0	5.0	6.0	2000	1000		
(E) Vdc (avg)	8.75	4.26	2.72	2.22	4.02	2.19	1.54	1.348	412	197		
(F) DCcal	←								.485	.508		
(G) Kn x 10^{-3}	18	45	90	135	45	90	135	252				
(H) ρ dc=ExFxGx10^3/D	13	19	24	28	15	19	24	27				
(I) Vac Σ	8.14	3.87	2.79	1.93	3.61	1.95	1.36	1.14	409	192		
(J) AC noise x 2												
(K) Vac (corr) = $\sqrt{I^2 - J^2}$	←											
(L) AC-DC cal.									.993	0.975	USE 0.985	
(M) ρdc/ρac =ExL/K												
(N) PFE=(M-1)(10^2)	6.7	9.7	13.0	14.2	10.6	11.5	12.4	17.4				
(O) MCF=(M-1)(10^5)/H	515	489	542	507	707	605	517	644				

PAGE

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT COYOTE MT 10-13-6
LINE 4 HALF E SP. 1 DATE

SEND	12	23	12	34	23	12	45	34	23	12
RECEIVE	0-10E	10-20E	—	20-30E	—	—	30-40E	—	—	—
RANGE	100	100	10	100	10	10	100	10	10	3
DC 1	330 345	442 465	685 788	522 532	840 768	296 290	380 325	880 950	320 302	161 143
DC 2	328 342	440 466	684 820	522 532	840 758	262 300	380 322	882 960	318 260	144 143
DC 3	328 342	440 468	700 805	522 532	840 772	252 298	382 322	888 925	310 260	155 154
DC 4	330 342	440 470	690 820	522 532	838 752	260 300	381 320	888 950	368 252	142 142
DC 5		440 470	678 800		820 785	255 300	380 321	912 922	312 278	146 141
DC 6			701 820		840 752	248 318	382 320	902 950	340 248	150 140
DC 7						240 315		920 928	340 250	166 116
DC 8								930 925	330 260	170 143
DC AVG.	67.2	90.8	14.98	105.4	16.02	5.54	70.3	18.41	5.8	2.92
AC 1	33.2	49.5	7.40	52.0	7.82	2.70	34.8	9.05	2.82	1.39
AC 2	33.4	44.5	7.40	52.0	7.82	2.70	34.8	9.05	2.82	1.39
AC AVG.	66.6	89.0	14.80	104.0	15.64	5.40	69.6	18.10	5.64	2.78
S.P.	+3.0	+21.3	—	+3.7	—	—	+13.2	—	—	—
AC NOISE	<1	<1	—	<1	—	—	<2	—	—	—
POT RES.	1K	1.5K	—	1.5K	—	—	1K	—	—	—

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT COYOTE MT
LINE 4 HALF E SP. L DATE 10-13-67

PAGE

SEND	45	34	23	12	45	34	23	12	al	
RECEIVE	40-50E				50-60E					
RANGE	10	10	3	1	3	3	1	1		
DC 1	585535	344260	156130	783910	205266	166188	925978	630558		
DC 2	620522	348260	154134	808765	202277	152145	978105	545700		
DC 3	612530	355270	150138	908840	200240	146197	890985	558705		
DC 4	610538	340278	146137	800800	214257	147194	942908	605690		
DC 5	598545	330285	146136	824840	200268	147196	970962	540702	205	
DC 6	600540	332280	144140	848718	228242	140195	1000905	520702	205	
DC 7	610525	320285	140136	920685	220244	155185	952950	520520	205	
DC 8	622522	325292	146134	800850	216251	152190	935875	485530	205	
DC AVG.	11.41	6.11	2.83	1.638	4.67	3.42	1.907	1.186	410	
AC 1	5.62	3.00	1.36	0.785	2.25	1.65	0.900	0.547	204	
AC 2	5.62	3.00	1.36	0.785	2.25	1.65	0.900	0.547	204	
AC AVG.	11.24	6.00	2.72	1.57	4.50	3.30	1.800	1.080	408	
S.P.	+15.5				+16.4					
AC NOISE	1.2				1.2					
POT RES.	15K				2K					

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Coyote Mt. PAGE

LINE 4 HALF E SP. 1 DATE 10/13/67

SEND	12	23	12	34	23	12	45	34	23	12
RECEIVE	0-10E	10-20E	—	20-30E	—	—	30-40E	—	—	—
RANGE	H1	—	—	—	—	—	—	—	—	—
VOLTAGE	440	438	442	419	430	442	470	420	434	442
CURRENT	7A	8A	7A	9A	8A	7A	6A	9A	8A	7A
SEND	45	34	23	12	45	34	23	12		(Cal
RECEIVE	40-50E	—	—	—	50-60E	—	—	—		45-
RANGE	H1	—	—	—	—	—	—	—		LO
VOLTAGE	470	420	434	445	467	418	435	445		130
CURRENT	6A	9A	8A	7A	6A	9A	8A	7A		2A

FREQUENCIES .05 1.0 cps.

SENDER NO. 6644-S

OPERATOR F. Oviedo ST

RECEIVER NO. 1066 1-R

OPERATOR J KING

COMMENTS:

12 — 7A 30X 333+200

23 — 8A 30X 666+200

34 — 9A 30X 0+300

45 — 6A 30X 0+200

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT COYOTE MT 10-13-67

LINE 4 HALF W SP. 1 DATE

PAGE

SEND	45	34	45	23	34	45	12	23	34	45
RECEIVE	0-10W	10-20W	—	20-30W	—	—	30-40W	—	—	—
RANGE	100	100	10	100	30	10	100	30	10	3
DC 1	322350	442425	620638	492472	100115	300272	680655	148 111	440552	190 135
DC 2	320348	440430	610655	495 472	100 116	320 270	678 648	140 109	440538	164 131
DC 3	320350	432432	658635	495 472	100 117	312260	681 645	150 110	420585	160 201
DC 4	320350	435 432	638590	492 472	101 117	322242	680646	145 105	410565	140 146
DC 5		435 430	680598	495 472	100 118	342250	682650	150 108	440560	164 184
DC 6			680598			320 270	680 640	151 105	410542	157 166
DC 7										168 174
DC 8										112 180
DC AVG.	67.0	86.6	12.71	96.6	21.7	5.81	132.8	25.6	9.84	3.14
AC 1	32.8	42.2	6.18	47.2	10.6	2.80	65.0	12.5	4.75	1.55
AC 2	32.8	42.2	6.18	47.2	10.6	2.80	65.0	12.5	4.75	1.55
AC AVG.	65.6	84.4	12.36	94.4	21.2	5.60	130.0	25.0	9.50	3.10
S.P.	-3.1	+15.3	—	+6.2	—	—	+23.2	—	—	—
AC NOISE	<.2	<.2	—	<.2	—	—	<.2	—	—	—
POT RES.	600	1K	—	700	—	—	700	—	—	—

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT COYOTE MT 10-13-67
LINE 4 HALF W SP. 1 DATE

PAGE

SEND	12	23	34	45	12	23	34	45	rel	
RECEIVE	40-50W				50-60W					
RANGE	30	10	3	1	10	3	3	1		
DC 1	104 120	342 500	346 224	910 985	342 340	239 183	126 140	620 590		
DC 2	100 121	460 382	243 200	870 860	428 362	220 195	133 130	480 540		
DC 3	100 120	445 362	246 225	920 825	338 325	200 220	121 150	440 810		
DC 4	101 122	460 360	260 194		422 325	215 201	135 107	460		
DC 5	97 123	470 350	248 191		420 325	205 203	131 149		205	
DC 6	100 124	470 360	245 225		398 320	202 227	159 110		205	
DC 7	100 119	475 352	223 241		492 275	240 175	135 135		205	
DC 8	104 120	482 338	205 260		320 400	210 240	155 115	1.56	205	
DC AVG.	22.2	8.36	4.56	1.801	7.21	4.18	2.68	1.13	410	
AC 1	10.8	4.00	2.20	0.867	3.58	2.00	1.28	0.55?	203	
AC 2	10.8	4.00	2.20	0.867	3.58	2.00	1.29		203	
AC AVG.	21.6	8.00	4.40	1.72	7.16	4.00	2.57	1.10	406	
S.P.	+15.4				+25.5					
AC NOISE	1.2				1.2					
POT RES.	700				700					

1 2	2 3	3 4
330 400	174 250	144 148
340 390		115 121
		157 —

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Coyote

LINE 4 HALF W SP. 1 DATE 10/13/87

PAGE

SEND	45	34	45	23	34	45	12	23	34	45
RECEIVE	0-10W	10-20W	—	20-30W	—	—	30-40W	—	—	—
RANGE	Hi	—	—	—	—	—	—	—	—	—
VOLTAGE	465	414	465	430	414	465	445	430	412	463
CURRENT	6A	9A	6A	8A	9A	6A	7A	8A	9A	6A
SEND	12	23	34	45	12	23	34	45		(Cal
RECEIVE	40-50W	—	—	—	50-60W	—	—	—		12)
RANGE	Hi	—	—	—	—	—	—	—		Lo
VOLTAGE	443	430	412	464	441	428	408	460		165
CURRENT	7A	8A	9A	6A	7A	8A	9A	6A		2A

FREQUENCIES .05 1.0 c.P.S.

SENDER NO. 6644-S

OPERATOR

RECEIVER NO. 10661-R

OPERATOR S. King

COMMENTS: Very Poor Audio Cloudy at 4000' and beyond

45 - 6A 30X 0 + 200

34 - 9A 30X 0 + 300

23 - 8A 30 X 666 + 200

12 - 7A 30X 333 + 200

HEINRICHS GEOEXPLORATION COMPANY

INDUCED POLARIZATION SURVEY COMPUTATION SHEET

Page_____

Project Hecla Coyote Line 4 E½ Field date 10-13/67 Data page_____ Comp. date_____. Comp by C.S.L.

(A) Send	1-2	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2		
(B) Receive	0-10E	10-20E	→	20-30E	→	→	30-40E	→	→	→		
(C) n separation												
(D) I	7	8	7	9	8	7	6	9	8	7		
(E) Vdc (avg)	67.2	90.8	14.98	105.1	16.02	5.54	70.7	18.41	5.84	2.92		
(F) DCcal	.488	→	→	→	→	→	→	→	→	→		
(G) Kn x 10^{-3}	3	3	12	3	12	30	3	12	30	60		
(H) ρ dc=ExFxGx10^3/D	14	17	13	17	12	12	17	12	11	12		
(I) Vac Σ	66.6	89.0	14.80	104.0	15.64	5.40	69.6	18.10	5.64	2.78		
(J) AC noise x 2												
(K) Vac(corr) = $\sqrt{I^2 - J^2}$												
(L) AC-DC cal.	.995	→	→	→	→	→	→	→	→	→		
(M) ρ dc/ρac=ExL/K												
(N) PFE=(M-1)(10^2)	0.4	1.5	0.7	0.8	1.9	2.1	0.5	1.2	3.0	4.5		
(O) MCF=(M-1)(10^5)/H												

Project_____ Line_____ Field date_____ Data page_____ Comp. date_____ Comp by_____

(A) Send	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2		CAL		
(B) Receive	40-50E	→	→	→	50-60E	→	→	→		→		
(C) n separation												
(D) I	6	9	8	7	6	9	8	7		2000		
(E) Vdc (avg)	11.41	6.11	2.83	1.638	4.67	3.92	1.907	1.186		410		
(F) DCcal	→	→	→	→	→	→	→	→		.488		
(G) Kn x 10^{-3}	12	30	60	105	30	60	105	168				
(H) ρ dc=ExFxGx10^3/D	11	9.9	10	12	11	11	12	14				
(I) Vac Σ	11.24	6.00	2.72	1.57	4.50	3.30	1.800	1.08		408		
(J) AC noise x 2												
(K) Vac (corr) = $\sqrt{I^2 - J^2}$												
(L) AC-DC cal.	→	→	→	→	→	→	→	→		.995		
(M) ρdc/ρac =ExL/K												
(N) PFE=(M-1)(10^2)	1.0	1.3	3.5	3.8	3.3	3.1	5.4	9.3 ?				
(O) MCF=(M-1)(10^5)/H												

HEINRICHS GEOEXPLORATION COMPANY
INDUCED POLARIZATION SURVEY COMPUTATION SHEET

Page_____

Project Hecla - Coyote Line 4 - W½ Field date 10/13/67 Data page_____ Comp. date_____. Comp by C. S. L.

(A) Send	4-5	3-0	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5		
(B) Receive												
(C) n separation												
(D) I	6	9	6	8	9	6	7	8	9	6		
(E) Vdc (avg)	67.0	86.6	12.71	96.6	21.7	5.81	132.8	25.6	9.84	3.21		
(F) DCcal	.488											
(G) Kn x 10^{-3}	3	3	12	3	12	30	3	12	30	60		
(H) ρdc=ExFxGx10^3/D	16	14	12	18	14	14	28	19	16	15		
(I) Vac Σ	65.6	84.4	12.36	94.4	21.2	5.60	130.0	25.0	9.50	3.10		
(J) AC noise x 2												
(K) Vac(corr) = $\sqrt{I^2 - J^2}$												
(L) AC-DC cal.	.990											
(M) ρ dc/ρac=ExL/K												
(N) PFE=(M-1)(10^2)	1.1	1.6	1.8	1.3	1.3	2.7	1.1	1.4	2.5	2.5		
(O) MCF=(M-1)(10^5)/H												

Project_____ Line_____ Field date_____ Data page_____ Comp. date_____ Comp by_____

(A) Send	1-2	2-3	3-4	4-5	1-2	2-3	3-4	4-5		C#L		
(B) Receive												
(C) n separation												
(D) I	7	8	9	6	7	8	9	6		2000		
(E) Vdc (avg)	22.2	8.27	4.56	1.801	~~2.173~~	4.14	2.68	1.13		410		
(F) DCcal								→		.488		
(G) Kn x 10^{-3}	12	30	60	105	30	60	105	168				
(H) ρ dc=ExFxGx10^3/D	19	15	15	15	15	15	15	15				
(I) Vac Σ	21.6	8.00	4.40	1.72	7.16	4.00	2.57	1.10		.06		
(J) AC noise x 2												
(K) Vac (corr) = $\sqrt{I^2 - J^2}$												
(L) AC-DC cal.								→		.990		
(M) ρdc/ρac =ExL/K												
(N) PFE=(M-1)(10^2)	1.8	2.3	2.6	3.7	1.4	2.5	3.2	1.7?				
(O) MCF=(M-1)(10^5)/H												

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT COYOTE MT 9-27-67
LINE 2 HALF N SP. 1 DATE

PAGE

SEND	12	23	12	34	23	12	45	34	23	12
RECEIVE	0-10N	10-20N	—	20-30N	—	—	30-40N	—	—	—
RANGE	300	300	100	100	30	10	100	30	10	3
DC 1	121 121	117 119	264 291	930 940	189 199	570 640	312 321	171 187	482 538	180 170
DC 2	122 121	117 120	264 292	928 941	190 200	598 642	312 320	174 190	492 522	192 176
DC 3	121 121	117 120	262 295	926 942	190 199	586 640	310 320	171 185	491 516	196 175
DC 4	121 120	117 120	261 296	930 942	193 202	580 630	308 320	171 185	485 520	201 196
DC 5	121 121	117 120	261 298	926 940	194 200	585 648	308 322	173 188	505 562	186 154
DC 6	122 120	117 120	260 298	928 942	193 200	570 634	308 322	172 187	505 514	188 186
DC 7						584 628	308 321	173 190	492 538	192 194
DC 8						576 638	306 322	171 188	502 520	164 200
DC AVG.	242	237	55.7	186.9	39.2	12.19	63.0	36.0	10.24	3.70
AC 1	112	110	25.9	86.4	18.2	5.60	29.5	16.6	4.78	1.70
AC 2	112	110	25.9	86.4	18.2	5.60	29.5	16.6	4.78	1.70
AC AVG.	224	220	51.8	172.8	36.4	11.20	59.0	33.2	9.56	3.40
S.P.	-9.9	-6.0	—	-2.6	—	—	-24.2	—	—	—
AC NOISE	<0.4	<0.4	—	<0.2	—	—	<0.2	—	—	—
POT RES.	4K	1K	—	2K	—	—	3K	—	—	—

184 195
188 176
180 205
172 194
186

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT COYOTE MT 9-27-67
LINE 2 HALF N SP. 1 DATE

PAGE

SEND	45	34	23	12	45	34	23	12	Cal	
RECEIVE	90-50N				50-60N					
RANGE	30	30	10	3	100	30	70	3	300	
DC 1	126 125	106 105	340 342	145 156	360 618	134 092	350 370			
DC 2	124 122	107 104	345 342	115 172	358 618	134 090	348 366			
DC 3	122 122	105 105	320 360	146 151	360	120 106	355 378			
DC 4	124 125	104 106	352 345	131 117		120 105	356 370			
DC 5	124 125	105 106	345 342	142 103		119 105	342 355		205	
DC 6	125 125	105 104	338 350	161 104		119 105	340 370		206	
DC 7	124 126	109 104	350 342	120 161		120 105	338 378		205	
DC 8	125 125	106 105	348 338	123 151		120 105	342 384		206	
DC AVG.	24.8	21.03	6.87	2.73		22.4	7.16		411	
AC 1	11.6	9.60	3.18	1.25	31.0?	10.3	32.2	1.35	191	
AC 2	11.6	9.60	3.18	1.26	31.0	10.3	32.2		191	
AC AVG.	23.2	19.20	6.36	2.51	62.0	20.6	6.44	2.70	382	
S.P.	+28.0				-13.4					
AC NOISE	<0.2				<0.2					
POT RES.	2K				1K					

126 125 105 106 336 355 130 140
125 105 105 355 355 126 139
123 123 106 105 320 378 122 123
125 105 104 365 325 142 151
107 106 358 350 161 136
328 352 132 104
325 326 115 146
136 161
145 144
142 136
145 141
137 114

120 105 338 362
120 105 316
121

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT COYOTE Mt

LINE 2 HALF W SP. 1 DATE 9-27

PAGE

SEND	1-2	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2
RECEIVE	0-10	→	20	→	→	30	→	→	→	40
RANGE	Lo	→								
VOLTAGE	745	870	740	330	860	720	300	330	840	700
CURRENT	3 A.	→	→	→	→	→	→	→	→	→
SEND	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2	CAL	
RECEIVE	40	→	→	50	→	→	→	60	4-5	
RANGE										
VOLTAGE	290	320	820	670	290	320	780	660	200	
CURRENT	3 A.	→	→	→	→	→	→	→	2A	

FREQUENCIES .105 3

SENDER NO. 6644-5 MK 4

OPERATOR BOB

RECEIVER NO.

OPERATOR JIM

COMMENTS: SENT BY "TIME" AFTER CAL.

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT COYOTE MT
LINE 2 HALF S SP. 1 DATE 9-27-67

PAGE

SEND	45	34	45	23	34	45	12	23	34	45
RECEIVE	0-105	10-205	—	20-305	—	—	30-405	—	—	
RANGE	300	300	100	100	100	30				
DC 1	157 159	163 162	375 355	605 592	445 418	141 104				
DC 2	158 159	163 162	378 355	605 592	445 418	143 101				
DC 3	158 159	163 162	378 355	605 592	445 419	135 115				
DC 4	159 159	163 162	378 355	605 592	445 418	136 113				
DC 5	158 159	163 162	379 354	608 588	445 418	135 112				
DC 6						136 112				
DC 7										
DC 8					Next	Sheet				
DC AVG.	158.55	162.5	366.4							
AC 1	145	150	33.8	55.5	39.9	11.4				
AC 2	145	149	33.8	55/5	40.0	11.4				
AC AVG.	145	149.5	33.8							
S.P.	-14.3	-1.3	—	-6.8	—	—				
AC NOISE	<.5	<.4	—	<.4	—	—				
POT RES.	4K	4K	—	3K	—	—				

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT COYOTE NM 9-28-67
LINE 2 HALF S SP. / DATE

PAGE

SEND	45	34	45	23	34	45	12	23	34	45
RECEIVE	0-165	10-205	—	20-305	—	—	30-405	—	—	—
RANGE				100	100	30	100	30	30	10
DC 1				820 808	425 442	115 130	478 488	186 192	155 171	512 481
DC 2				821 808	428 440	116 135	472 486	185 191	150 173	492 470
DC 3				822 810	420 440	124 134	478 486	184 192	154 175	518 486
DC 4				820 808	430 440	118 126	478 484	187 190	150 170	481 485
DC 5				820 808	425 440	115 136	480 486	185 194	150 170	520 514
DC 6						115 133	480 486	190 191	154 172	530 496
DC 7						115 137				514 480
DC 8										500 518
DC AVG.				814.55	433.06	124.85	481.82	188.96	161.86	498.8
AC 1				76.0	40.2	11.6	45.2	17.5	14.8	4.61
AC 2				76.0	40.2	11.5	45.2	17.5	14.8	4.62
AC AVG.										
S.P.				+2.0	—	—	-11.6	—	—	—
AC NOISE				<.1	—	—	<.1	—	—	—
POT RES.				3K	—	—	4K	—	—	—

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT COYOTE MT 9-25-67
LINE 2 HALF S SP. 1 DATE

PAGE

SEND	12	23	34	45	12	23	34	45	Cal	Cal
RECEIVE	40-50	S			51-60S				300	
RANGE	30	10	1.0	3	10	3	3		9-27-67	9-28-67
DC 1	318 319	615 590	534 612	182 225	340 310	242 267	262 314			
DC 2	320 310	592 600	544 640	194 243	395 286	238 259	292 276			
DC 3	320 318	620 561	550 618	194 215	414 288	235 264	294 287			
DC 4	321 300	612 562	552 608	192 236	408 200	231 273	288 308			
DC 5	330 315	638 576	624 615	244 223	372 278	215 284	274 284		204	205
DC 6	341 316	636 624	660 618	84 235	356 338	221 282	256 283		205	206
DC 7		618 595	586 615	183 208	402 210	216 276	266 308		204	205
DC 8	10.08	596 608	596 578	195 209	422 252	208 296	284 310		205	206
DC AVG.	~~318~~	602.1	599.6	211.1	331.67	248.86	286.67		204.5	
AC 1	9.30	5.48	5.42	1.88	3.00	2.18	2.49		190	194
AC 2	9.25	5.48	5.42	1.88	3.00	2.19	2.48		190	194
AC AVG.	9.375	—	—	—	—	2.185	2.485			
S.P.	+2.1				-18.6					
AC NOISE	<.1				<.3					
POT RES.	5K				4K					

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PAGE

PROJECT Coyote Mt

LINE 2 HALF S SP. 1 DATE 9-27

SEND	4-5	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5
RECEIVE	0-10	———	20	———	———	30	———	———	———	40
RANGE	40			9-28						
VOLTAGE	380	420	390	960	410	370	800	950	520	460
CURRENT	4A	———	———	4	4	4	4	4	5	5
SEND	1-2	2-3	3-4	4-5	1-2	2-3	3-4	4-5	CAL	CAL
RECEIVE	40	———	———	50	———	———	———	60	1-2	1-2
RANGE	40								9-27	9-28
VOLTAGE	790	950	520	460	790	940	510		420	380
CURRENT	4	4	5	5	4	4	5		2	2

FREQUENCIES 105 3

SENDER NO.

OPERATOR Bob

RECEIVER NO.

OPERATOR Jim

COMMENTS:

-6-8

HEINRICHS GEOEXPLORATION COMPANY
INDUCED POLARIZATION SURVEY COMPUTATION SHEET

Page_____

Project Hecla Line 2 -N½ S-1 Field date_____ Data page_____ Comp. date_____. Comp by_____

(A) Send	1-2	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2		
(B) Receive	0-10	10-20	—	20-30	—	—	30-40	—	—	—		
(C) n separation												
(D) I	3A	—	—	—	—	—	—	—	—	—		
(E) Vdc (avg)	242	237	55.7	186.9	39.2	12.19	63.0	36.0	10.24	3.70		
(F) DCcal	.487	—	—	—	—	—	—	—	—	—		
(G) Kn x 10^{-3}	3	3	12	3	12	30	3	12	30	60		
(H) ρ dc=ExFxGx10^3/D	118	115	109	91	76	59	31	70	50	36		
(I) Vac Σ	224	220	51.8	172.8	36.4	11.20	59.0	33.2	9.56	3.40		
(J) AC noise x 2												
(K) Vac(corr) =$\sqrt{I^2 - J^2}$	use 0.94	—	—	—	—	—	—	—	—	—		
(L) AC-DC cal.	.929	—	—	—	—	—	—	—	—	—		
(M) ρ dc/ρac=ExL/K												
(N) PFE=(M-1)(10^2)	2 <1.6	0.1 1.3	-0.1 1.1	0.5 1.7	0.2 1.2	1.1 2.3	-0.8 0.4	0.7 1.9	-0.5 0.7	1.1 2.3		
(O) MCF=(M-1)(10^5)/H	14	11	10	19	16	39	13	27	14	64		

Project_____	Line_____	Field date_____	Data page_____	Comp. date_____	Comp by_____							
(A) Send	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2		CTC		
(B) Receive	40-50	—	—	→	50-60	—	—	→				
(C) n separation												
(D) I	—	—	—	—	—	—	—	→		2000		
(E) Vdc (avg)	24.8	21.03	6.87	2.73	—	22.4	7.16	—		411		
(F) DCcal	—	—	—	—	—	—	—	→		.487		
(G) Kn x 10^{-3}	12	30	60	105	30	60	105	168				
(H) ρ dc=ExFxGx10^3/D	48	102	67	47		218	122	79				
(I) Vac Σ	23.2	19.20	6.36	2.51	62.0	20.6	6.44	2.70		382		
(J) AC noise x 2												
(K) Vac (corr) =$\sqrt{I^2 - J^2}$												
(L) AC-DC cal.	—	—	—	—		—	—	→		.929		
(M) ρdc/ρac =ExL/K										use 0.940		
(N) PFE=(M-1)(10^2)	-0.7 0.5	1.4 3.0	0.3 1.5	1.0 2.2		1.0 2.2	3.3 4.5					
(O) MCF=(M-1)(10^5)/H	10	29	22	47		10	37					

HEINRICHS GEOEXPLORATION COMPANY

INDUCED POLARIZATION SURVEY COMPUTATION SHEET

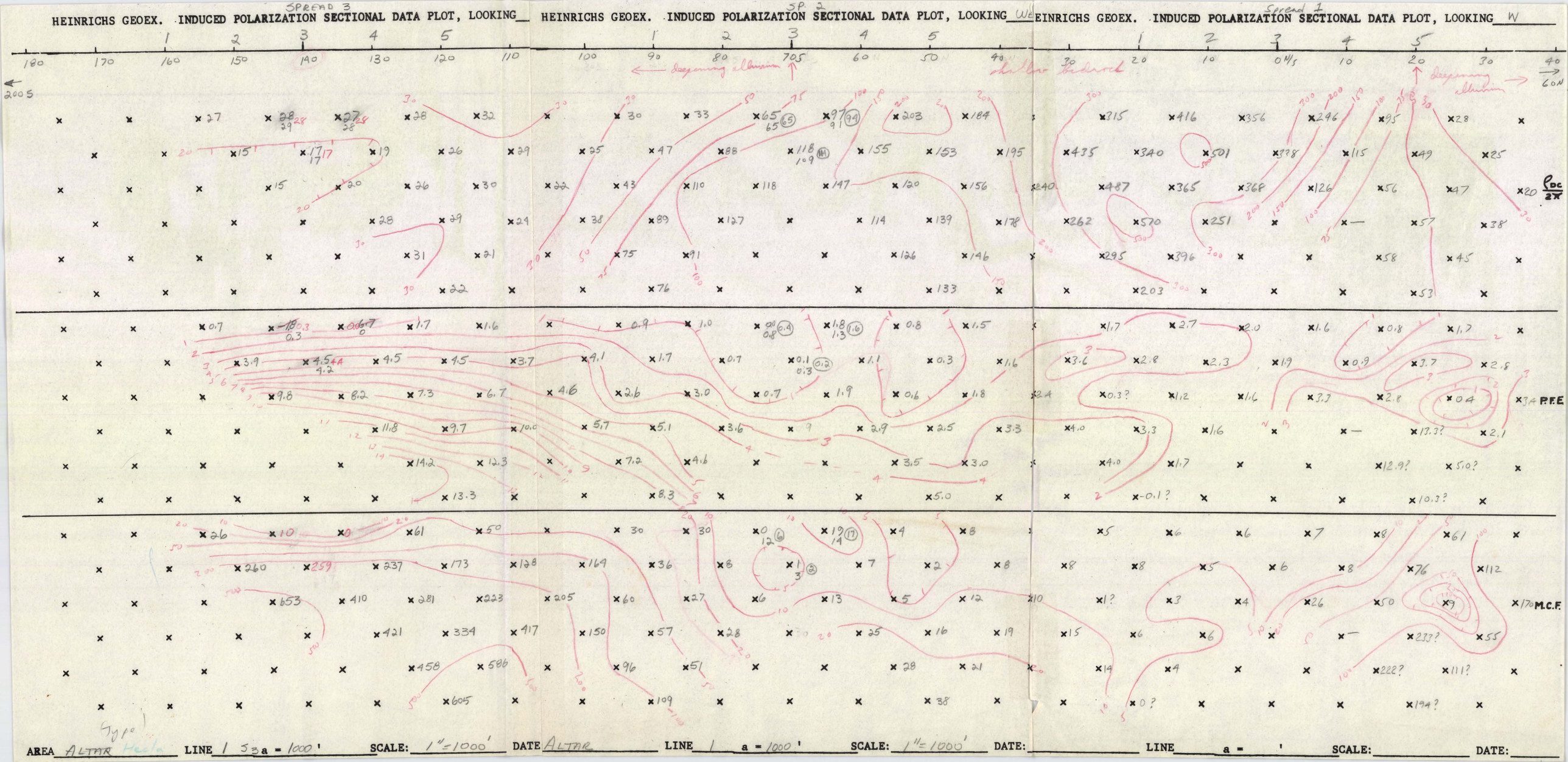
Page 1

Project ALTAR Line 2 S½ Sp. 1 Field date 9-27-67 9-28-67 Data page 1 Comp. date 9-29-67 Comp by HRM

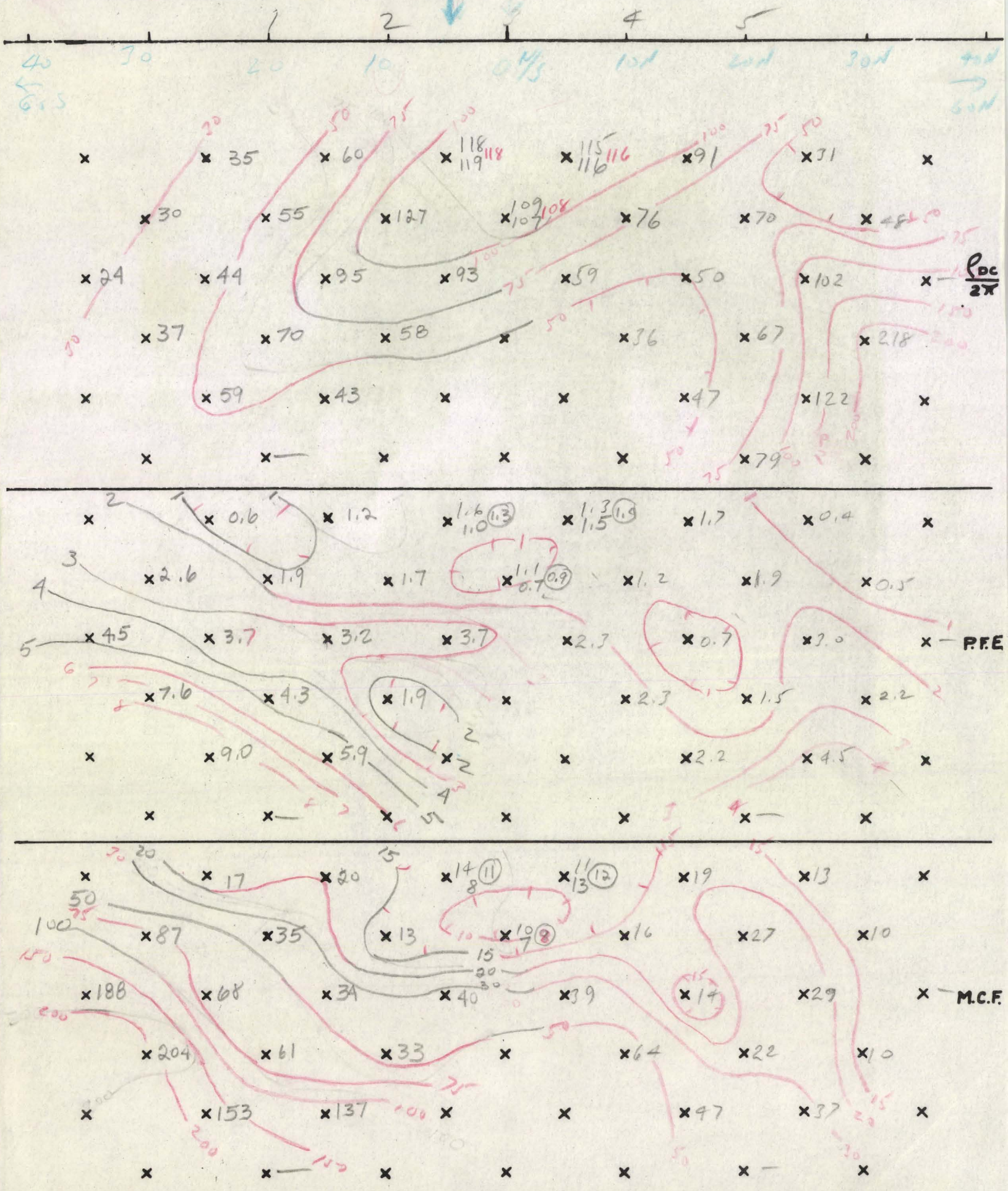
(A) Send	4-5	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5		
(B) Receive	0-10S	10-20S	—									
(C) n separation												
(D) I	4.0A	—	—	—	—	—	—	—	5.0	5.0		
(E) Vdc (avg)	158.55	162.5	366.4	814.55	433.06	126.85	486.82	188.96	164.86	498.8		
(F) DCcal	.978	→	→	.976	→							
(G) Kn x 10^{-3}	3	3	12	3	12	30	3	12	30	60		
(H) ρ dc=ExFxGx10^3/D	116	119	107	60	127	93	35	55	95	58		
(I) Vac Σ	145	149.5	33.8	76.0	40.2	11.55	45.2	17.5	14.8	4.615		
(J) AC noise x 2												
(K) Vac(corr) = $\sqrt{I^2 - J^2}$												
(L) AC-DC cal.	.929			.944								
(M) ρ dc/ρac=ExL/K												
(N) PFE=(M-1)(10^2)	1.5	1.0	0.7	1.2	1.7	3.7	0.6	1.9	3.2	1.9		
(O) MCF=(M-1)(10^5)/H	13	8	7	20	13	40	17	35	34	33		

Project ____ Line ____ Field date ____ Data page ____ Comp. date ____ Comp by ____

(A) Send	1-2	2-3	3-4	4-5	1-2	2-3	3-4	4-5		CAL ①	CAL ②	
(B) Receive	40-50S	—	—	—	50-60S	—	—	—				
(C) n separation												
(D) I	4.0	—	5.0	—	4.0	4.0	5.0					
(E) Vdc (avg)	~~10~~ 5.19	6.021	5.996	311	33267	~~249~~ 66	28767	—		2000	2000	
(F) DCcal	.976									204.5	205.5	
(G) Kn x 10^{-3}	12	30	60	105	30	60	105					
(H) ρ dc=ExFxGx10^3/D	~~30~~ 44	44	70	43	24	37	59					
(I) Vac Σ	9.275	5.48	5.42	1.88	3.00	2.185	2.485	—		190.0	194	
(J) AC noise x 2												
(K) Vac (corr) = $\sqrt{I^2 - J^2}$												
(L) AC-DC cal.	.944											
(M) ρdc/ρac =ExL/K												
(N) PFE=(M-1)(10^2)	~~7.26~~	3.7	4.3	5.9	4.5	7.6	9.0					
(O) MCF=(M-1)(10^5)/H	87	68	61	137	188	209	153					


HEINRICHS GEOEX. INDUCED POLARIZATION SECTIONAL DATA PLOT, LOOKING
SPREAD 3
1 2 3 4 5
180 170 160 150 140 130 120 110
200 S
HEINRICHS GEOEX. INDUCED POLARIZATION SECTIONAL DATA PLOT, LOOKING W
SP. 2
1 2 3 4 5
100 90 80 70 60 50 40
deepening alluvium
shallow bedrock
HEINRICHS GEOEX. INDUCED POLARIZATION SECTIONAL DATA PLOT, LOOKING W
Spread 1
1 2 3 4 5
30 20 10 0 10 20 30 40
deepening alluvium
600N
P.F.E.
M.C.F.
AREA Altar Valley LINE 1 53a = 1000' SCALE: 1"=1000' DATE Altar
LINE 1 a = 1000' SCALE: 1"=1000' DATE:
LINE a = ' SCALE: DATE:

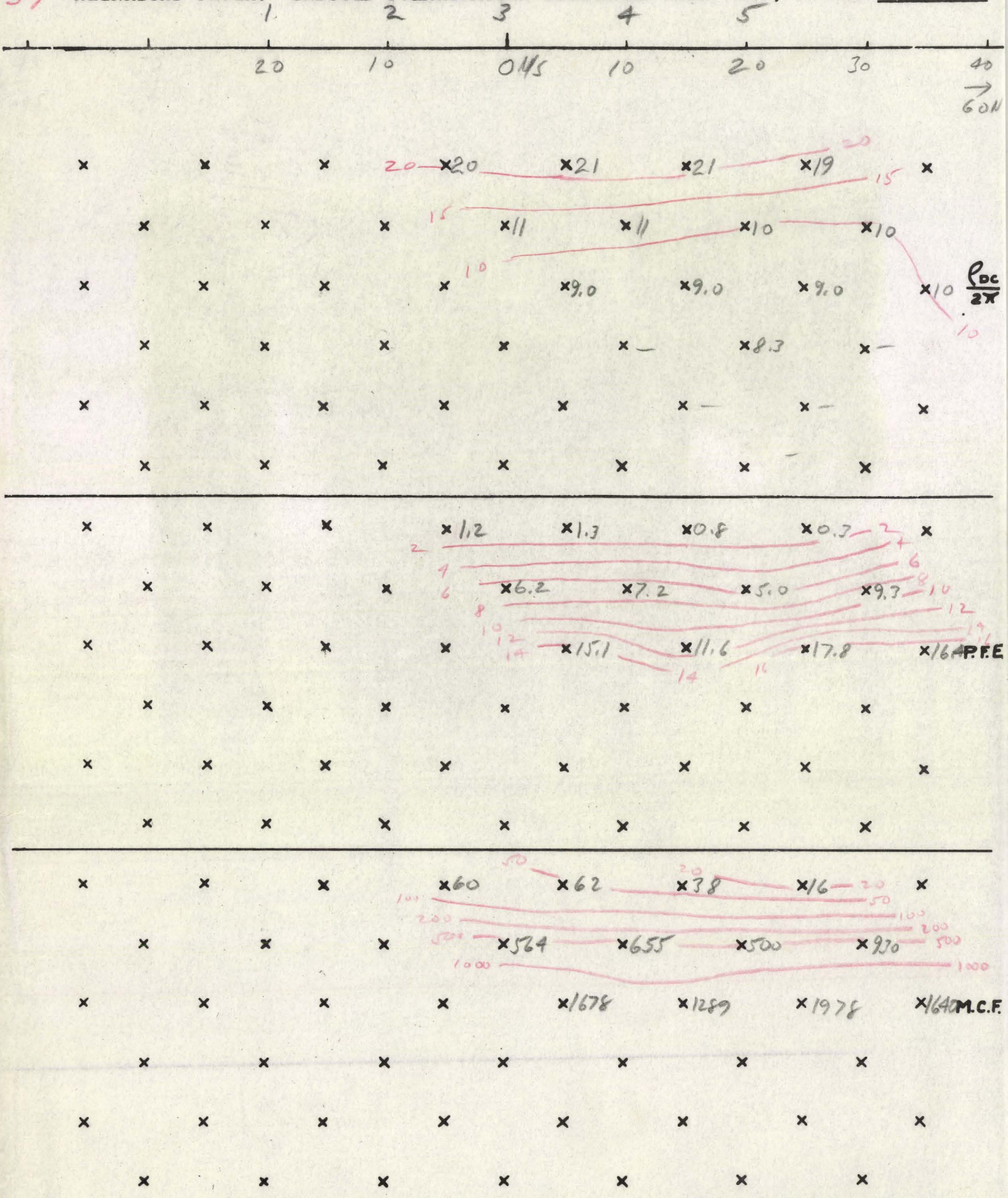
HEINRICHS GEOEX. INDUCED POLARIZATION SECTIONAL DATA PLOT, LOOKING West



AREA Hecla Coyote LINE 2 SPREAD 1 a = 1000' SCALE: 1" = 1000' DATE: 9/28/87

3 of

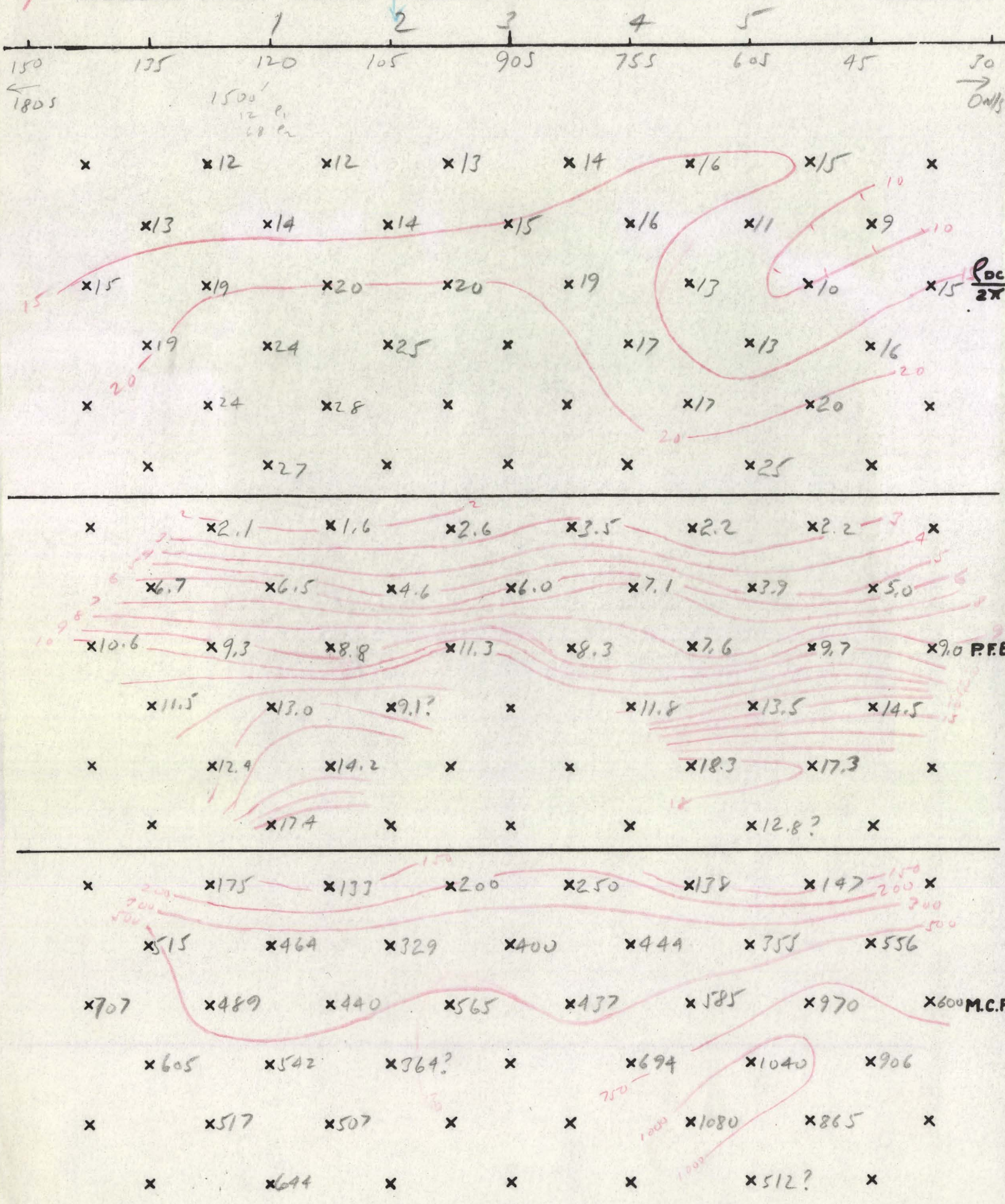
HEINRICHS GEOEX. INDUCED POLARIZATION SECTIONAL DATA PLOT, LOOKING West



AREA ~~Coyote Heck~~ LINE 5 a = 1000' SCALE: 1" = 1000' DATE: Sept 67

14a

HEINRICHS GEOEX. INDUCED POLARIZATION SECTIONAL DATA PLOT, LOOKING West



AREA Hecla - Coyote LINE 3 - Spr 3 (a = 1500') SCALE: 1" = 1500' DATE: Oct, 1967

HEINRICHS GEOEX. INDUCED POLARIZATION SECTIONAL DATA PLOT, LOOKING

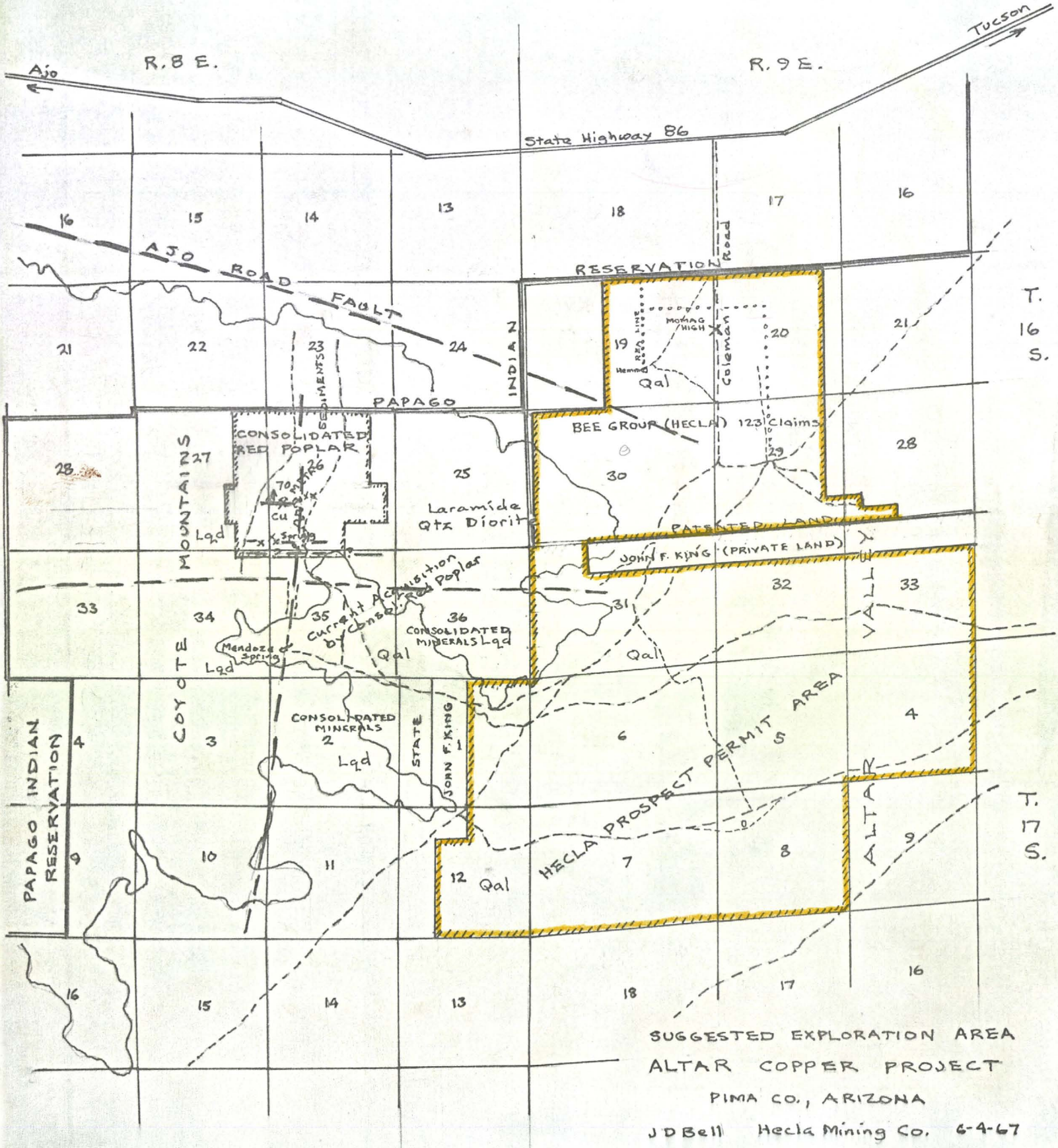
HEINRICHS GEOEX. INDUCED POLARIZATION SECTIONAL DATA PLOT, LOOKING West

P.F.E

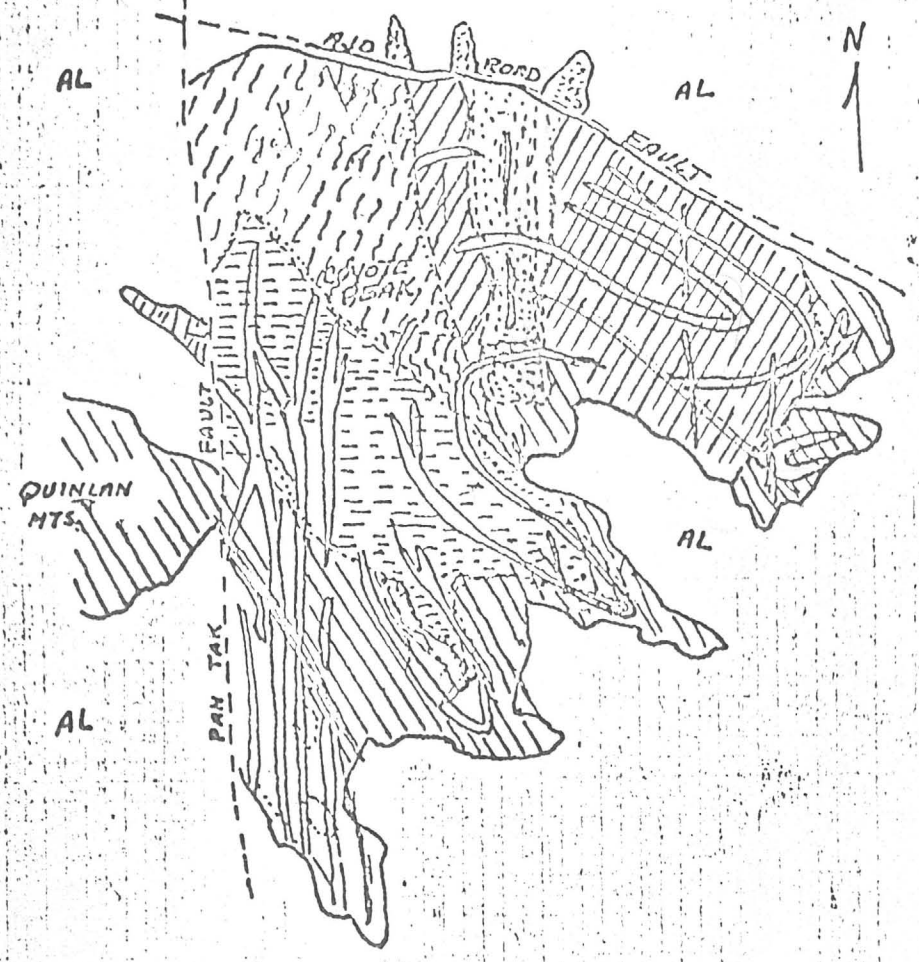
M.C.F.

AREA Hecla — LINE 3 a = 1000' SCALE: DATE:

Hecla - Coyote LINE 3 a = 1000' SCALE: 1" = 1000' DATE: Oct 67



SUGGESTED EXPLORATION AREA
ALTAR COPPER PROJECT
PIMA CO., ARIZONA
J D Bell Hecla Mining Co. 6-4-67

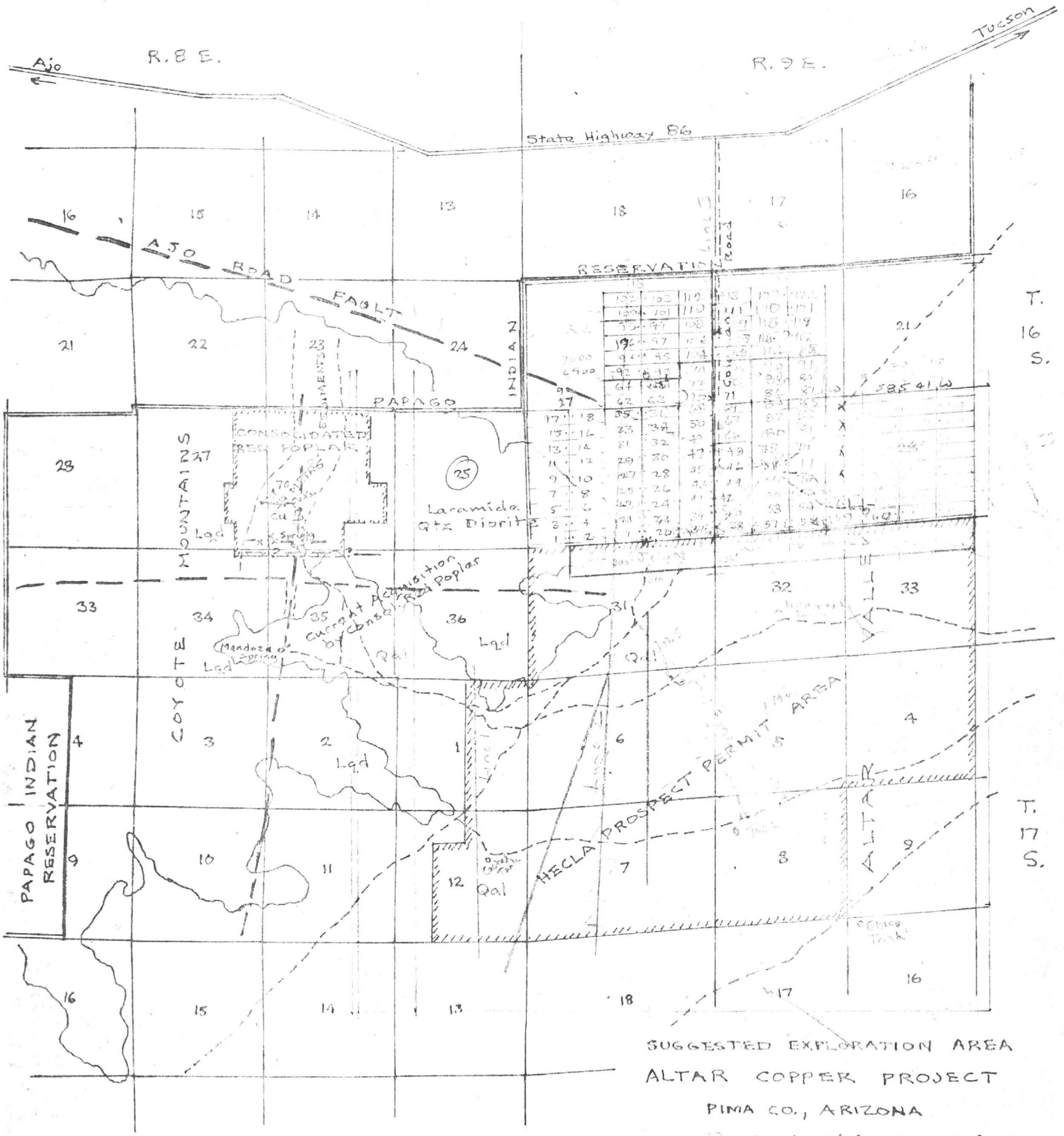


GEOLOGY of the

COYOTE MOUNTAINS, ARIZONA

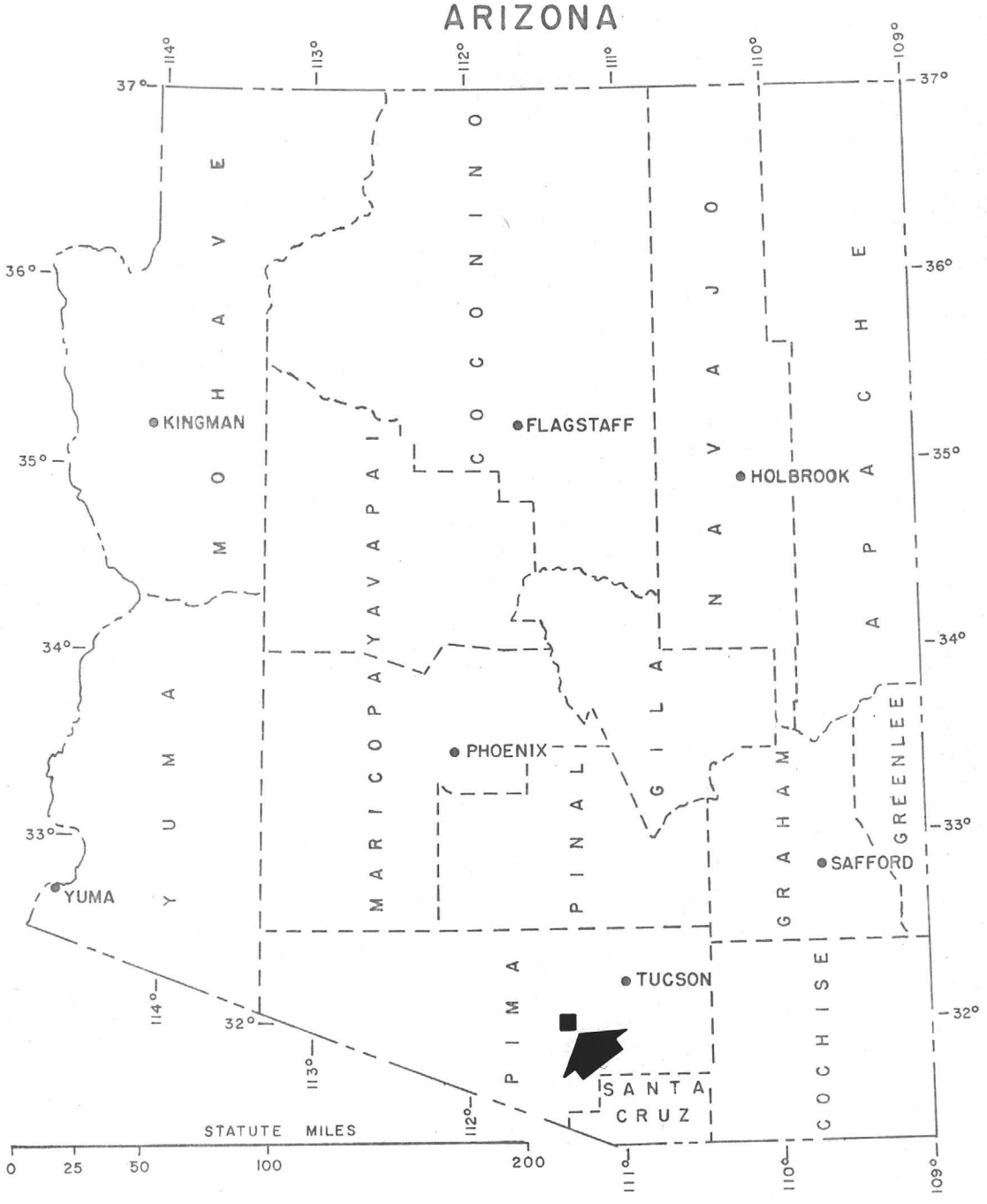
* Sketch made by (?) from the Report 'Geologic and Tectonic Features of the Coyote Mountains, Arizona' by J.G. Wargo & W.I. Kurtz

AL — ALLUVIUM
K-? SHALES
LAMPROPHYRE
PEGMATITE
AIASKITE
MONZONITE
DIORITE
MARBLE & QUARTZITE
BIOTITE & GNEISS
FAULT
CONTACT
CAVILLO CAMP



SUGGESTED EXPLORATION AREA
ALTAR COPPER PROJECT
PIMA CO., ARIZONA
J D Bell Hecla Mining Co. 6-4-67

GENERAL LOCATION OF ALTAR COPPER PROJECT for HECLA MINING COMPANY



I.P field Plan

ALTAR COPPER PROJECT AREA

HECLA MINING COMPANY

PIMA COUNTY, ARIZONA

SCALE: 1" = 1,000'

Doug Bell supervisor Hecla

1. Run Line ½ mile apart initially space 1"
2. follow section Lines except Line 1 & 2
3. No overlap between Spd 1 & 2 on Line 3 unless alerted by data on Line 1

R. 8 E. R. 9 E.

T. 16 S. T. 17 S.

COYOTE MOUNTAINS

BEE CLAIM GROUP (HECLA)
SURFACE PATENT - R. JENKS

CONSOLIDATED MINERALS, LTD

JOHN F. KING (PRIVATE MINERALS)

HECLA - STATE PROSPECT PERMIT AREA
J. F. KING - GRAZING LEASE

I.8 Mi. to Ajo Highway

Center of Aeromagnetic High

North end of L1 53 was 100' south of Sells HWY

Hemme Rd.

Ironwood Tank

Cactus Tank

Chico Tank

Tank 28

Tank

Mendoza Wash

South Wash

Canyon Wash

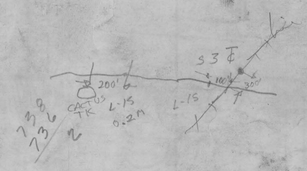
P.P. 10953 — P.P. 10954 — P.P. 10955 — P.P. 10956 — P.P. 10957 — P.P. 10958 — P.P. 10959 — P.P. 10960 — P.P. 10961 — P.P. 10962

CONSOLIDATED MINERALS — J. F. KING

Line 1 — Line 2 — Line 3

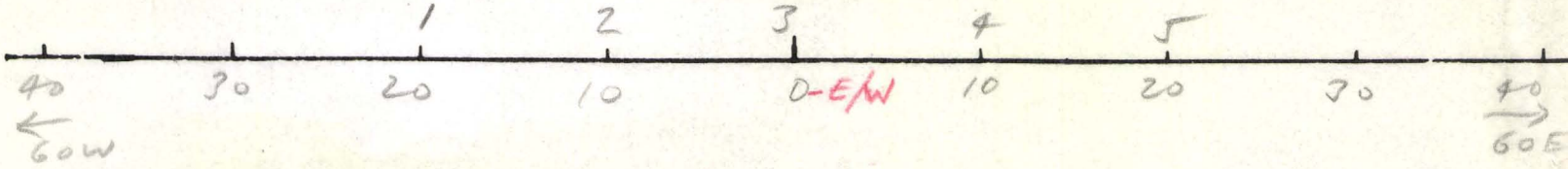
Spd 1 — Spd 2

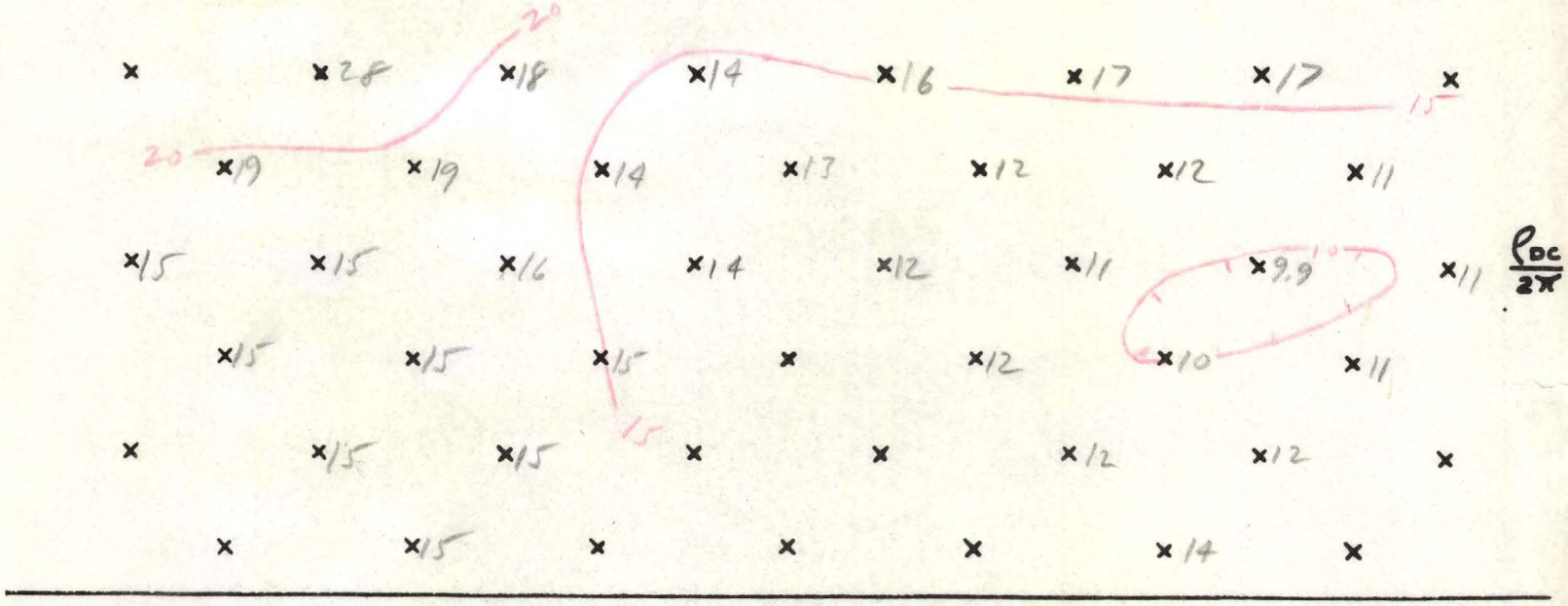
L-15

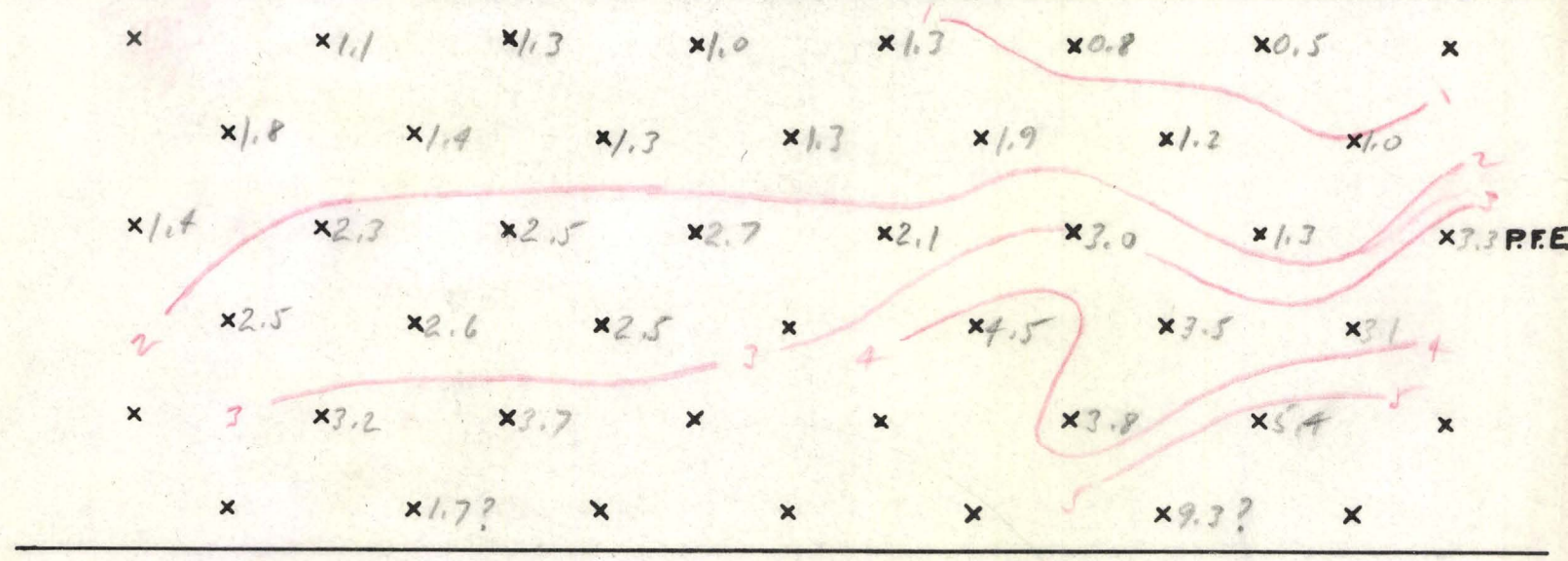


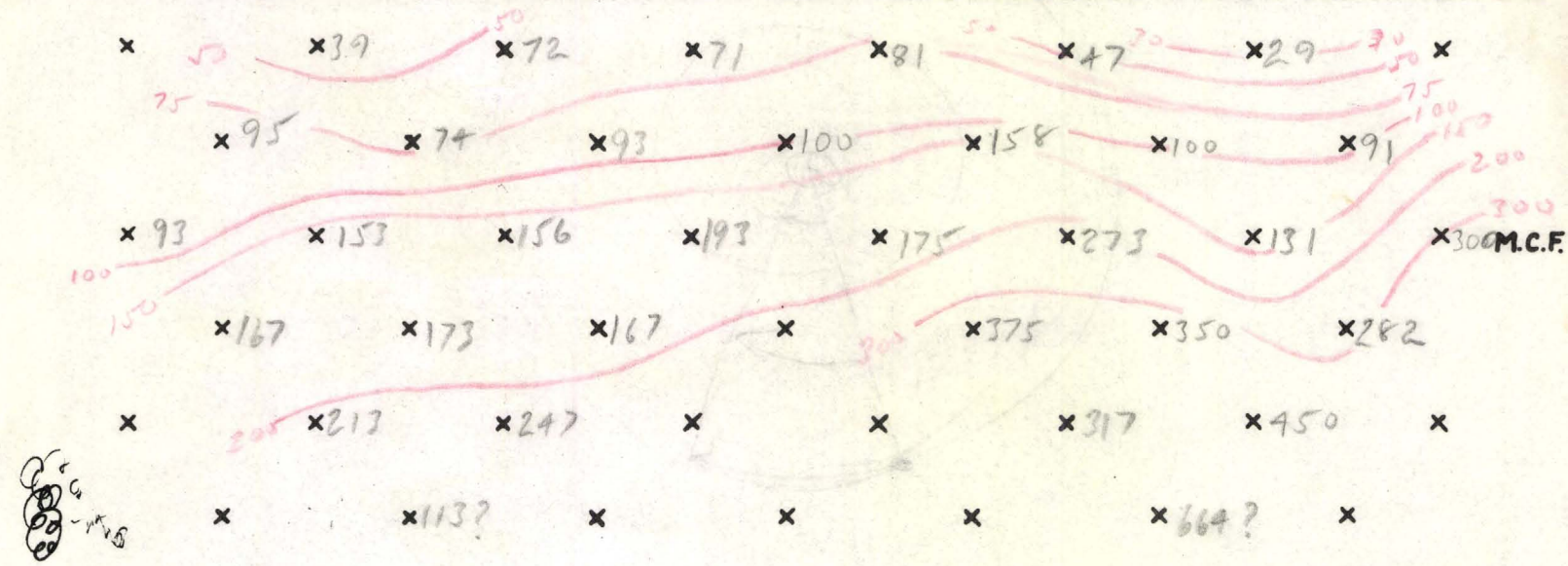
1 of 4

HEINRICHS GEOEX. INDUCED POLARIZATION SECTIONAL DATA PLOT, LOOKING North









AREA Heela - Coyote LINE 4 a = 1000' SCALE: 1" = 1000' DATE: Oct. 1967

ALTAR COPPER PROJECT AREA

HECLA MINING COMPANY

PIMA COUNTY, ARIZONA

SCALE: 1" = 1,000'

COYOTE MOUNTAINS

BEE CLAIM GROUP (HECLA)

SURFACE PATENT - R. JENKS

JOHN F. KING (PRIVATE MINERALS)

HECLA - STATE PROSPECT PERMIT AREA

Mendoza Wash

Coleman Road

1.8 Mi. to Ajo Highway

Ironwood Tank

Tank 28

Cactus Tank

Chico Tank

Mendoza Canyon

South Wash

Wash

Track approx

Road approx

Road to Tank

P.P. 10953

P.P. 10954

P.P. 10955

P.P. 10956

P.P. 10957

P.P. 10958

P.P. 10959

P.P. 10960

P.P. 10961

P.P. 10962

TL-1

TL-2

R. 8 E.

R. 9 E.

T. 16 S.

T. 17 S.

TR.MK. REG. U.S. PAT. OFF.

Jim Bannerche Operator

Compass in pocket

word

STA	TIME	POL.	RANGE	DIAL	X30.2
13-1	10:10	+	2	167	5043
1+00	10:20	+	2	165	4983
2+00		+	2	162	4892.
3+00		+	2	170	5134
4+00		+	2	172	5194
5+00		+	2	173	5224
6+00		+	2	174	5254
7+00		+	2	170	5134
8+00	10:40	+	2	160	4832
9+00		+	2	157	4741
10+00		+	2	182	5996
11+00		+	2	172	5194
12+00		+	2	162	4892
13+00		+	2	175	5285
14+00		+	2	167	5043

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Sta.	Time	Pol	Range	Dial	
15+00		+	2	163	4922
16+00	10:53	+	2	182	5496
17+00		+	2	175	5285
18+00		+	2	175	5285
19+00		+	2	173	5224
20+00	11:06	+	2	175	5285
21+00		+	2	180	5436
22+00		+	2	176	5315
23+00		+	2	170	5134
24+00	11:15	+	2	170	5134
~~25+00~~					
~~26+00~~					
B-1	11:45	+	2	157	4741
25+00	12:30	+	2	173	5224
26+00		+	2	175	5285
27+00		+	2	174	5254

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sta	Time	Pol	Range	Dial	
28+00		+	2	164	4952
29+00		+	2	182	5496
30+00		+	2	175	5285
31+00		+	2	176	5315
32+00		+	2	165	4983
33+00		+	2	158	4771
34+00		+	2	162	4892
35+00		+	2	158	4771
36+00		+	2	173	5224
37+00		+	2	164	4952
38+00	12:50	+	2	158	4771
39+00		+	2	161	4862
40+00		+	2	162	4892
41+00		+	2	174	5254
42+00		+	2	157	4741
43+00		+	2	163	4922

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	Sta.	Time	Pol.	Range	Dial	
	44+00		+	2	155	4681
	45+00		+	2	175	5285
	46+00	13:10	+	2	175	5285 fence
	47+00	13:40	+	2	162	4892
	48+00		+	2	182	5496
	49+00		+	2	178	5375
	50+00		+	2	167	5043
	51+00		+	2	162	4892
	52+00	14:00	+	2	187	5647
	53+00 (2)		+	2	165	4983
	54+00		+	2	162	4892
	55+00		+	2	172	5194
3	56+00		+	2	167	5043
	57+00		+	2	176	5315
	58+00		+	2	182	5496
4	59+00	14:30	+	2	161	4861

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sta.	Time	Pol.	Range		Dial	
60 00	14:35	+	2		159	4801
B-1	15:40	+	2	10/10/67 ↑	157	4741
B-1	09:50	+	2	10/11/67 ↓	165	4983
61+00	10:30 10:30	+	2		168	5073
62+00	10:40	+	2		167	5043
5 63+00		+	2		168	5073
64+00		+	2		167	5043
65+00		+	2		168	5073
66+00		+	2		170	5134
67+00		+	2		169	5103
67+50		+	2		157	4741
67+75		+	2		201	6070
68+00		+	2		188	5677
68+50		+	2		197	5949
69+00		+	2		203	6130
69 50		+	2		190	5738

No Corner

O.K.

5073 fem.

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	sta.	Time	Pol	Range	Dial	
	70+00		+	2	193	5828
	70+50	11:00	+	2	196	5919
	71+00		+	2	182	5496
	71+50		+	2	183	5526
	72+00		+	2	183	5526
7	73+00		+	2	175	5285
	74+00		+	2	175	528
	75+00		+	2	176	5315
	76+00		+	2	176	5315
	77+00		+	2	173	5224
8	78+00		+	2	167	5043
	79+00		+	2	172	5194
	80+00		+	2	173	5224
	81+00		+	2	175	5285
4	282+00		+	2	174	5254

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Sta.	Time	Pol	Range	Dial	
83+00	(9) 11:15	+	2	175	5285
84+00		+	2	167	5043
85+00		+	2	166	5013
86+00		+	2	170	5134
87+00		+	2	167	5043
88+00	11:17 (10)	+	2	167	5043
B-1	11:50	+	2	165	4983

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Oct. 13

Sta.	Time	Pol.	Range	Dial	× 10.1
B-1	10:30	+	1	97	980
1+00		+	1	97	980
2+00		+	1	100	1010
3+00		+	1	101	1020
4+00		+	1	106	1071
5+00		+	1	104	1050
6+00		+	1	104	1050
6+50	10:40	+	1	117	1182
7+00		+	1	134	1353
7+50		+	1	106	1071
8+00		+	1	103	1040
9+00		+	1	113	1141
10+00		+	1	107	1081
11+00	10:50	+	1	120	1212
42 12+00		+	1	111	crest 1121

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Sta.	Time	Pol	Range	Dial	x 10.1
13+00	11:05	+	1	126	1273
13+50		+	1	100	1010
14+00		+	1	94	949
15+00		+	1	93	939
16+00	11:15	+	1	96	970
17+00		+	1	94	949
18+00		+	1	97	980
19+00		+	1	101	1020
20+00		+	1	103	1040
21+00		+	1	110	1111
22+00	11:26	+	1	108	1091
23+00		+	1	105	1061
24+00		+	1	104	1050
25+00		+	1	101	1020
4226+00		+	1	105	1061

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Sta.	Time	Pol.	Range	Dial	x10.1
27+00		+	1	105	1061
28+00		+	1	98	990
28+50		+	1	112	1131
29+00		+	1	115	1162
29+50		+	1	102	1030
30+00		+	1	102	1030
30+50		+	1	113	1141
31+00		+	1	117	1182
31+50	11:40	+	1	110	1111
32+00		+	1	108	1091
33+00		+	1	103	1040
34+00		+	1	99	1000
35+00		+	1	95	960
36+00		+	1	88	stream 889
37+00		+	1	90	910

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Sta.	Time	Pol	Range	Dial	
					x 10.2 gen.
38+00	11:50	+	1	100	1010
38+25	12:05	+	1	110	1111
38+50		+	1	150	1515
38+75		+	1	135	1364
39+00		+	1	148	1495
39+25		+	1	216	2182
39+50		+	1	162	1636
39+75		+	1	155	1566
40+00	12:15	+	1	146	1475
40+50 ✓		+	1	18	182
41+00	12:25	+	1	165	1667
42+00		+	1	144	1454
43+00		+	1	137	crest 1384
44+00		+	1	129	1303
45+00		+	1	95	960

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	Sta	Time	Pol	Range	Dial	× 10.1
2	46+00	12:40	+	1	103	1040
	47+00		+	1	111	1121
	48+00		+	1	113	1141
	49+00		+	1	107	1081
	50+00		+	1	95	960
	51+00		+	1	113	1141
3	52+00	11:50	+	1	83	stream 838
	53+00		+	1	108	1091
	54+00		+	1	100	1010
	55+00		+	1	93	939
	56+00		+	1	87	879
4	57+00	1:00	+	1	124	1252
	58+00		+	1	113	1141
	59+00		+	1	115	1162
4	260+00		+	1	102	1030

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	Sta	time	Pol	Range	Dia/	x 10.1
	61+00		+	1	110	1111
	62+00		+	1	114	1151
5	63+00		+	1	114	1151
	64+00	1:10	+	1	115	1162
	65+00		+	1	115	1162
	66+00		+	1	130	1313
6	67+00		+	1	162	1636
	67+50		+	1	200	2020
	68+00		+	1	238	2404
	68+50		+	1	195	1970
	69+00		+	1	198	2000
	69+50		+	1	190	1919
	70+00		+	1	150	1515
	70+50	1:20	+	1	167	1687

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	Sta	time	Pol	Rang	Defl	x 10.1
	71+00		+	1	183	1848
	71+50		+	1	180	1818
	72+00		+	1	155	1566
	72+50	(7)	+	1	158	1596
	73+50		+	1	153	1545
	74+50		+	1	152	1535
	75+50		+	1	145	1465
	76+50		+	1	132	1333
8	77+50	1:30	+	1	117	1182
	78+50		+	1	123	1242
	79+50		+	1	133	1343
	80+50		+	1	140	1414
	81+50		+	1	138	1394
(9)	82+50	(9)	+	1	139	1404
42	83+50		+	1	120	1212

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Sta	time	Pol	Rang	Dial	x 10.1
84+50		+	1	114	1151
85+50		+	1	116	1172
86+50		+	1	113	1141
87+50		+	1	113	1141
88+50	1:40	+	1	103	1040
B-1	2:25	+	1	100	1010

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HECLA MINING CO.

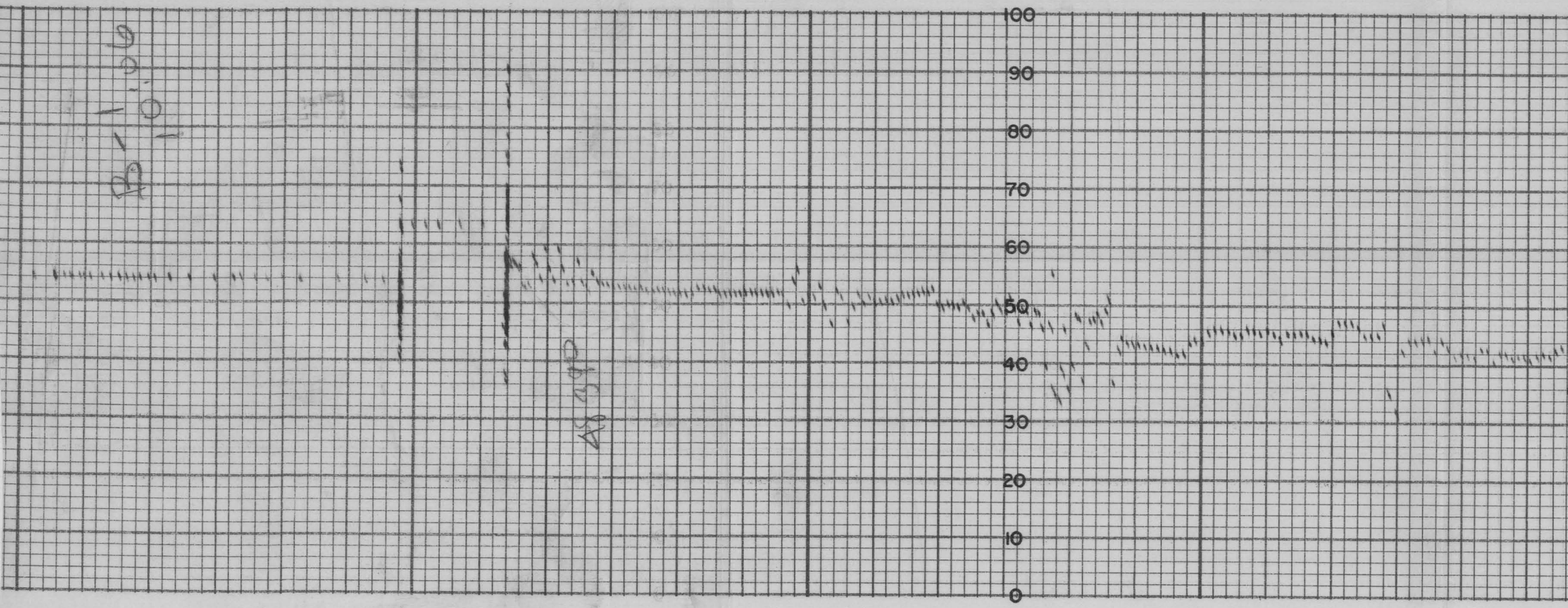
MOMAG RECORDS

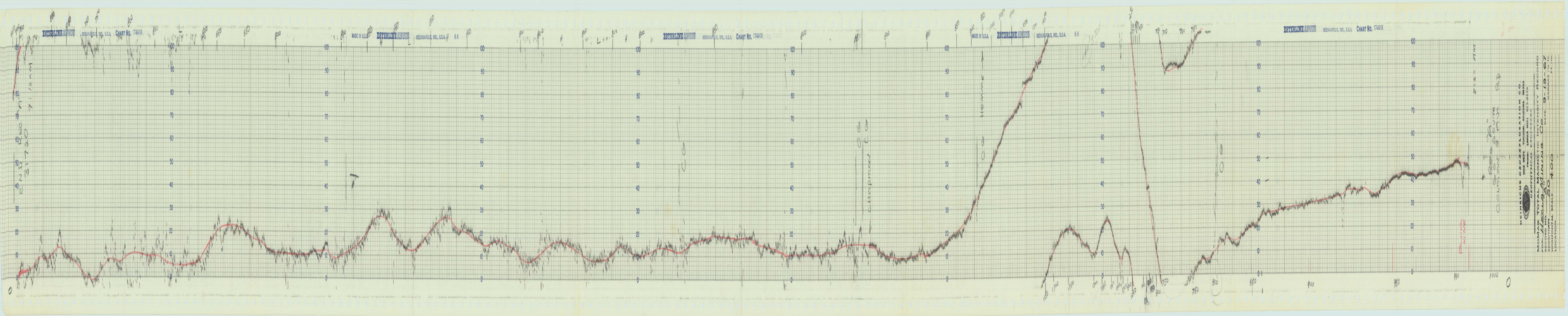
ALTAR COPPER PROSPECT

COYOTE MTNS,

PIMA COUNTY, ARIZ

MADE IN U. S. A. THE ESTERLINE-ANGUS CO. INDIANAPOLIS, IND., U. S. A. E.S.




INTERLAKE RECORD
MINNEAPOLIS, MN. U.S.A. CHART No. 17481X
MADE IN U.S.A.
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
190
200
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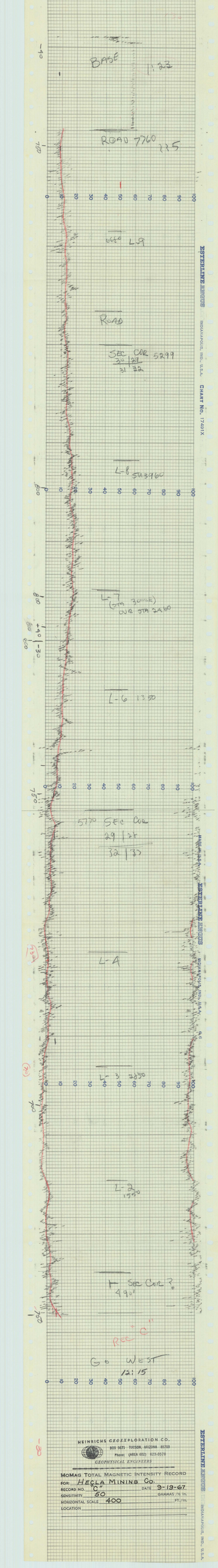
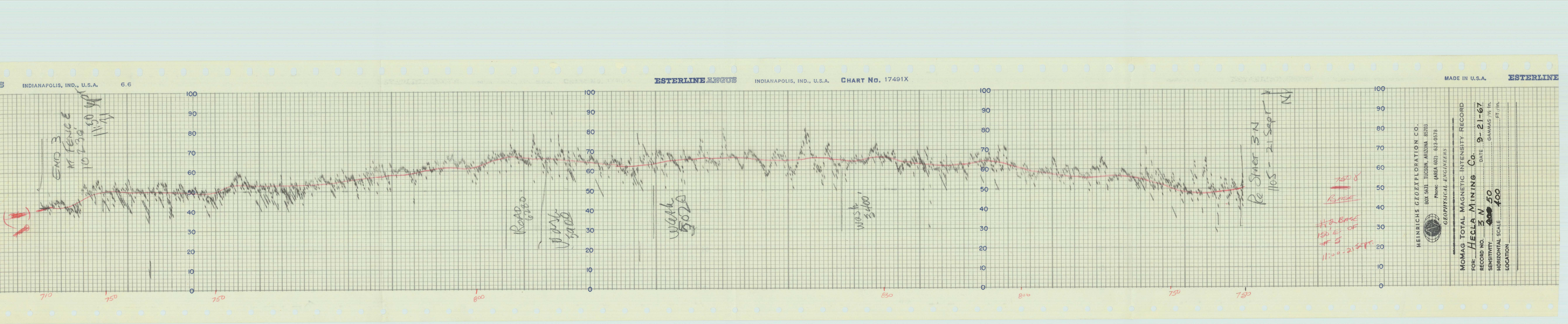
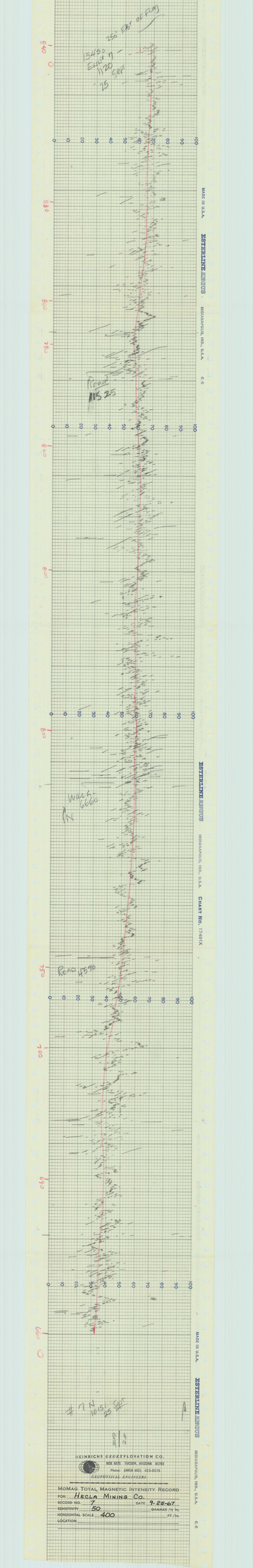
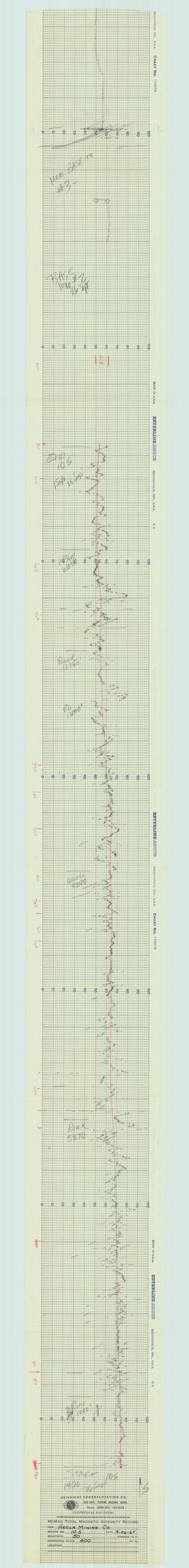
360
370
380
390


BASE
ROAD 7760
L-9
ROAD
SEC COR 5299
L-8 STA 3960
L-7 (STA 30 USE) DUE STA 3260
L-6 1350
5770 SEC COR
L-A
L-3 2050
L-2 1950
SEC COR?
GO WEST
12:15
HEINRICHS GEOEXPLORATION CO.
P.O. BOX 5071 - TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0578
GEOPHYSICAL ENGINEERS
MOMAG TOTAL MAGNETIC INTENSITY RECORD
FOR: HECLA MINING CO.
RECORD NO. 6
DATE 9-19-67
SENSITIVITY 50 GAMMAS / IN.
HORIZONTAL SCALE 400 FT / IN.
LOCATION
KEUFFEL & ESSER CO.
INDIANAPOLIS, IND., U.S.A.
CHART NO. 17491X


INDIANAPOLIS, IND., U.S.A. 6.6
ESTERLINE ANGUS INDIANAPOLIS, IND., U.S.A. CHART NO. 17491X
MADE IN U.S.A. ESTERLINE
END 3
AT FENCE
10 Sept 67
11:50 AM
Radio Tower
Water Tank
Water Tank
RE START 3 N
21 Sept 67
11:05 AM
HEIGHT OF HS 11:00 - 21 Sept
HEINRICHS GEOEXPLORATION CO.
BOX 5621 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0578
GEOPHYSICAL ENGINEERS
MOMAG TOTAL MAGNETIC INTENSITY RECORD
FOR: HECLA MINING Co.
RECORD NO. 3 N
DATE 9-21-67
SENSITIVITY: 400 - 50
GAMMAS IN In.
HORIZONTAL SCALE 400
FT./In.
LOCATION
0
10
20
30
40
50
60
70
80
90
100
710
750
750
800
850
800
750
750


MADE IN U.S.A.
ESTERLINE ANGUS
INDIANAPOLIS, IND., U.S.A.
CHART NO. 17491X
HEINRICHS GEOEXPLORATION CO.
BOX 5671 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0578
GEOPHYSICAL ENGINEERS
MOMAG TOTAL MAGNETIC INTENSITY RECORD
FOR: HECLA MINING CO.
RECORD NO. 7
DATE 9-28-67
SENSITIVITY 50
GAMMAS /IN IN.
HORIZONTAL SCALE 400
FT./IN.
LOCATION


INDIANAPOLIS, IND., U.S.A.
CHART No. 17601X
MADE IN U.S.A.
SCINTREX
Base Line
N-S
Traverse
N-S
Grid
Line
10 S
Base
Line
Road
1760'
Road
2200'
Road
5570
Start
1600'
Start
1490
Base
Line
105
HEINRICHS GEOEXPLORATION CO.
BOX 5672 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-8374
GEOPHYSICAL ENGINEERS
MOMAG TOTAL MAGNETIC INTENSITY RECORD
FOR: Hecla Mining Co.
RECORD NO. 105
DATE 9-26-67
SENSITIVITY 50
GAMMAS / in. G.
HORIZONTAL SCALE 400
FT. / in.
LOCATION

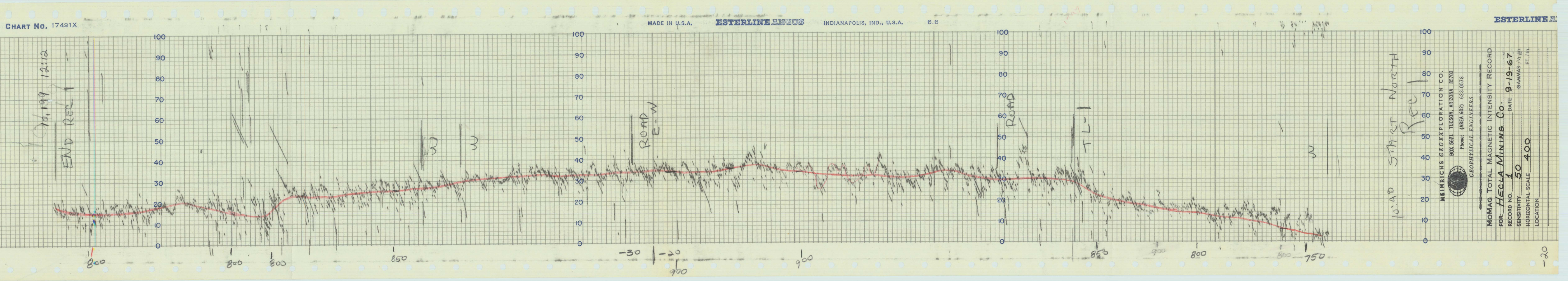
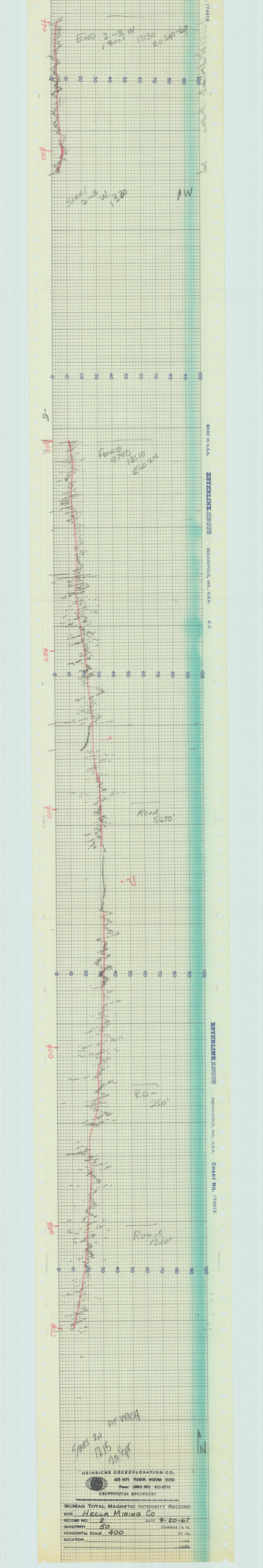
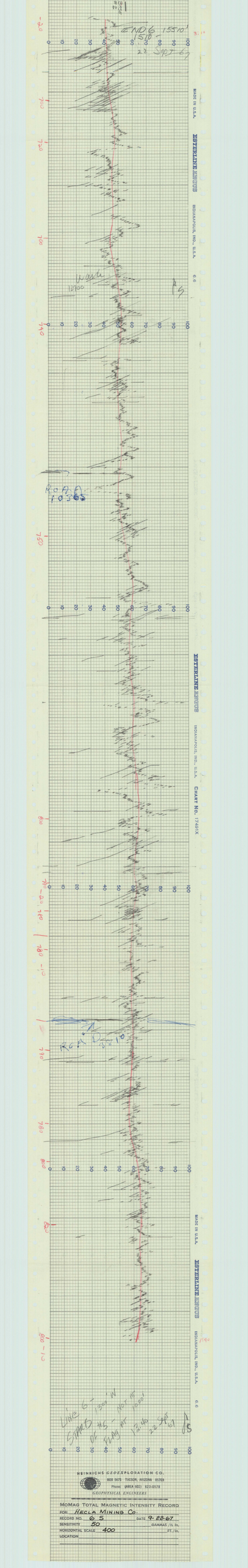
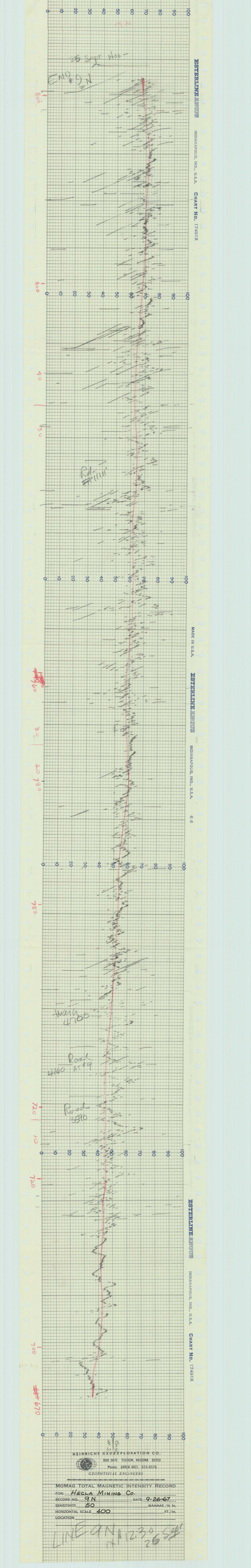
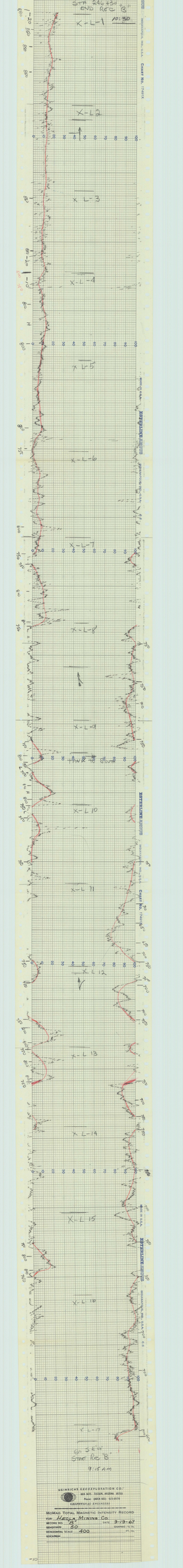


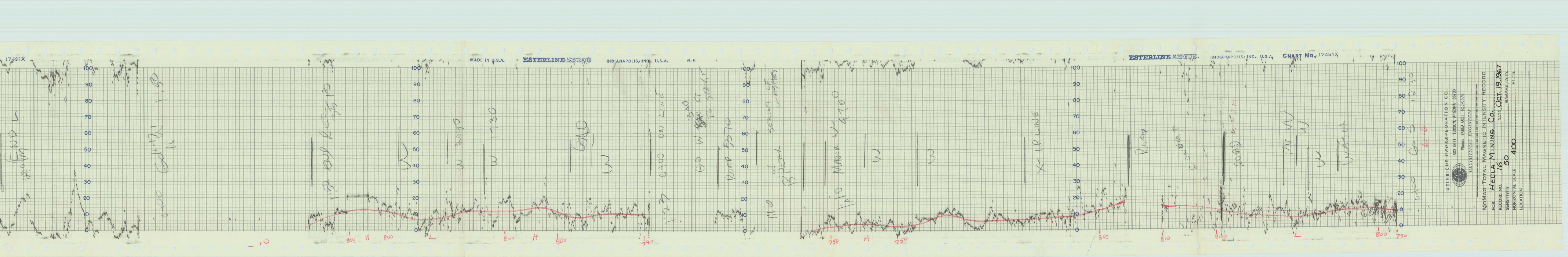
CHART NO. 17491X
MADE IN U.S.A. ESTERLINE ANGUS INDIANAPOLIS, IND., U.S.A. 6.6
ESTERLINE A
END REC 1
ROAD E-W
ROAD
TL-1
ROAD START NORTH
REC 1
MOMAG TOTAL MAGNETIC INTENSITY RECORD
FOR: HECLA MINING CO. DATE: 9-19-67
RECORD NO. 1 SENSITIVITY 50 GAMMAS / 1/2 IN.
HORIZONTAL SCALE 400 FT. / IN.
LOCATION
HEINRICHS GEOEXPLORATION CO.
BOX 5971 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0578
GEOPHYSICAL ENGINEERS
-20


ESTERLINE ANGUS
INDIANAPOLIS, IND. U.S.A.
CHART NO. 17491X
MADE IN U.S.A.
Echo 2-3 180° W 1330 20 Sep-67
Start 2-3 W 1220
NW
Force 47740 1210 Echo 2W
Road 5670'
Road 2510'
Road 1210'
AT WASH
Start 24 1215 10 Sept
N
HEINRICHS GEOEXPLORATION CO.
BOX 5071 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0578
GEOPHYSICAL ENGINEERS
MOMAG TOTAL MAGNETIC INTENSITY RECORD
FOR: HECLA MINING CO
RECORD NO: 2
DATE 9-20-67
SENSITIVITY 50
GAMMAS / in.
HORIZONTAL SCALE 400
FT. / in.
LOCATION


END 6 1550N
1510
22 SEPT 67
12700W
ROAD
10365
Line 6 1300 N
Sheet #5 of Plan No 1 to 2
22 SEPT 67
MADE IN U.S.A.
INDIANAPOLIS, IND., U.S.A.
CHART NO. 1740LY
HEINRICHS GEOEXPLORATION CO.
BOX 5673 TUCSON, ARIZONA 85703
Phone (AREA 602) 623-0578
GEOPHYSICAL ENGINEERS
MOMAG TOTAL MAGNETIC INTENSITY RECORD
FOR: HECLA MINING CO.
RECORD NO. 6 S
DATE 9-28-67
SENSITIVITY 50
GAMMAS / IN. IN.
HORIZONTAL SCALE 400
FT./IN.
LOCATION


ESTERLINE ANGUS
INDIANAPOLIS, IND., U.S.A.
CHART No. 17401X
MADE IN U.S.A.
ESTERLINE ANGUS
INDIANAPOLIS, IND., U.S.A.
ESTERLINE ANGUS
INDIANAPOLIS, IND., U.S.A.
CHART No. 17401X
END #9N
Road
#1111
Road
#1111
Road
#1111


STA 24+75 S
END REC 'B'
10:30
X-L-1
X-L-2
X-L-3
X-L-4
X-L-5
X-L-6
X-L-7
X-L-8
X-L-9
X-L-10
X-L-11
X-L-12
X-L-13
X-L-14
X-L-15
X-L-16
X-L-17
Std Rec 'B'
9:15 AM
CHART No. 17401X
CHART No. 17402X
HEINRICHS GEOEXPLORATION CO.
P.O. BOX 3675 - TUCSON, ARIZONA 85733
Phone: (602) 881-1270
GEOPHYSICAL ENGINEERS
MOMAG TOTAL MAGNETIC INTENSITY RECORD
FOR: Hecla Mining Co.
RECORD NO. 8
DATE 9-19-67
SENSITIVITY 50 GAMMAS / IN.
HORIZONTAL SCALE 400 FT. / IN.
LOCATION


17491X
MADE IN U.S.A. ESTERLINE ANGUS INDIANAPOLIS, IND., U.S.A. 6.6
ESTERLINE ANGUS INDIANAPOLIS, IND., U.S.A. CHART No. 17491X
HEINRICHS GEOEXPLORATION CO.
GEOPHYSICAL ENGINEERS
10MAG TOTAL MAGNETIC INTENSITY RECORD
FOR HECLA MINING CO. DATE OCT. 19, 1967
SENSITIVITY 50 GAMMAS PER IN.
HORIZONTAL SCALE 400
LOCATION

HEINRICHS GEOEXPLORATION CO.
BOX 5671 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0578
GEOPHYSICAL ENGINEERS

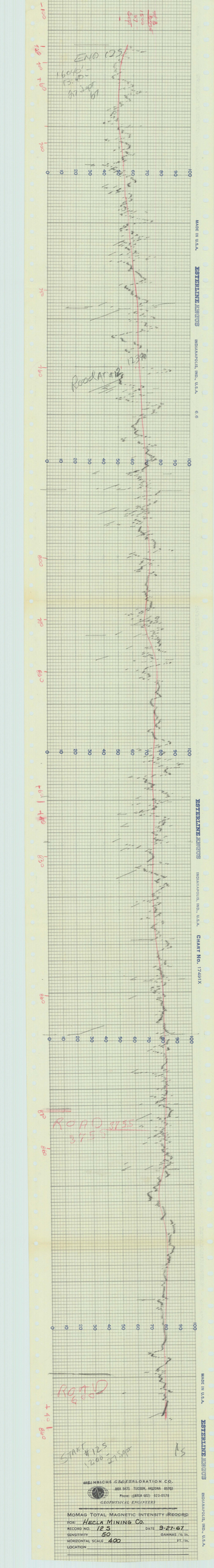
MOMAG TOTAL MAGNETIC INTENSITY RECORD

FOR: Hecla Mining Co.
RECORD NO. 45 DATE 9-21-67
SENSITIVITY 50 GAMMAS /¼ In.
HORIZONTAL SCALE 400 Ft./In.
LOCATION

ESTERLINE ANGUS INDIANAPOLIS, IND., U.S.A. CHART NO. 17491X

ESTERLINE ANGUS INDIANAPOLIS, IND., U.S.A. 6.6

MADE IN U.S.A.

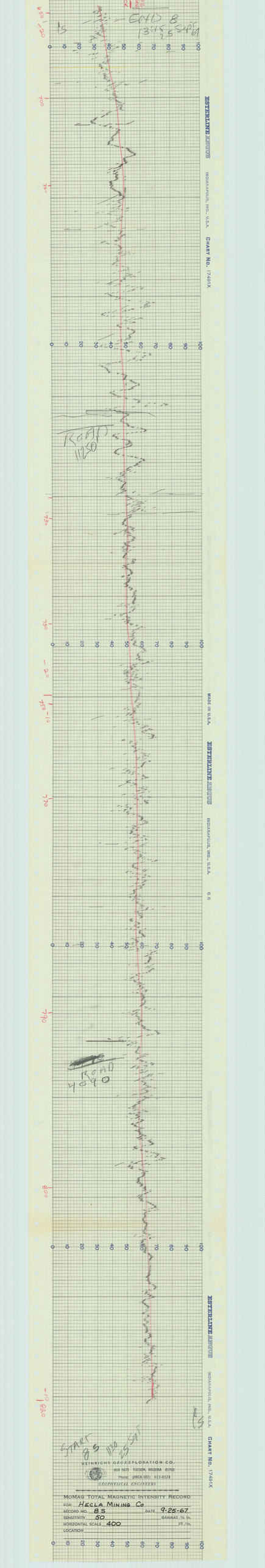


MAGNETIC GEOEXPLORATION CO.
BOX 5671 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0578
GEOPHYSICAL ENGINEERS

MOMAG TOTAL MAGNETIC INTENSITY RECORD

FOR: HECLA MINING CO.
RECORD NO. 12S
SENSITIVITY 50
HORIZONTAL SCALE 400
LOCATION

DATE 9-27-67
GAMMAS /IN. IN.
FT./IN.



WEINRICHS GEOEXPLORATION CO.
BOX 5673 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0578
GEOPHYSICAL ENGINEERS

MOMAG TOTAL MAGNETIC INTENSITY RECORD

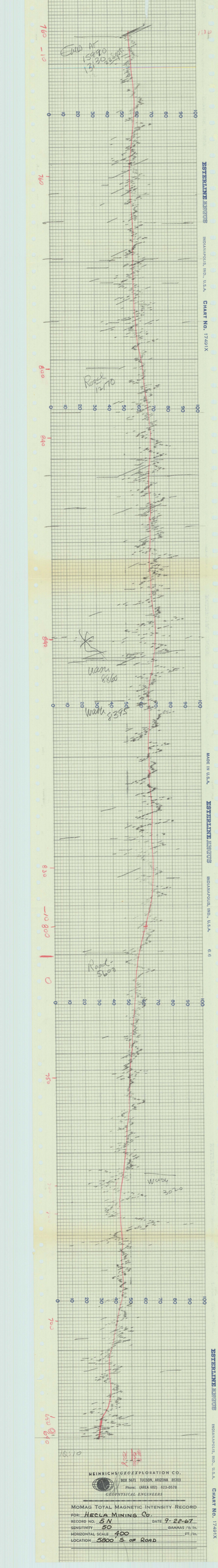
FOR: Hecla Mining Co

RECORD NO. 85 DATE 9-25-67

SENSITIVITY 50 GAMMAS / ½ in.

HORIZONTAL SCALE 400 FT./in.

LOCATION



WEINRICH'S GEOEXPLORATION CO.
BOX 5071 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0578
GEOPHYSICAL ENGINEERS

MoMag Total Magnetic Intensity Record

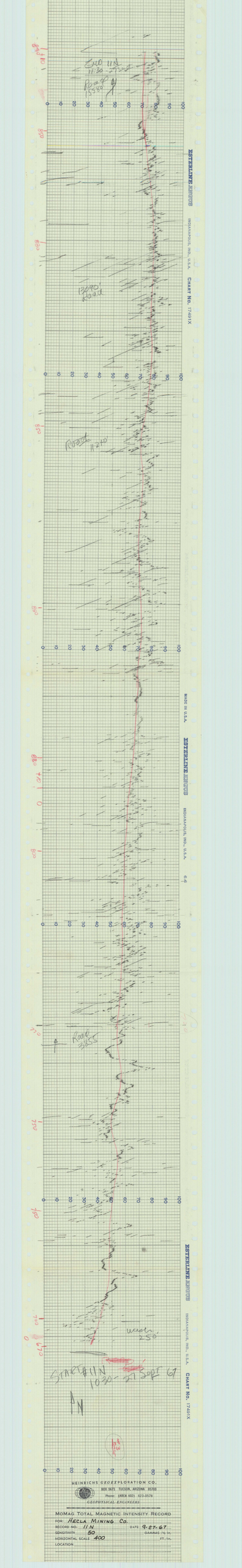
FOR: Hecla Mining Co.

RECORD NO. SN DATE 9-22-67

SENSITIVITY 50 GAMMAS / 1/2 in.

HORIZONTAL SCALE 400 FT./in.

LOCATION: 5800 S. of Road



WEINRICHS GEOEXPLORATION CO.
BOX 5671 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0578
GEOPHYSICAL ENGINEERS

MOMAG TOTAL MAGNETIC INTENSITY RECORD

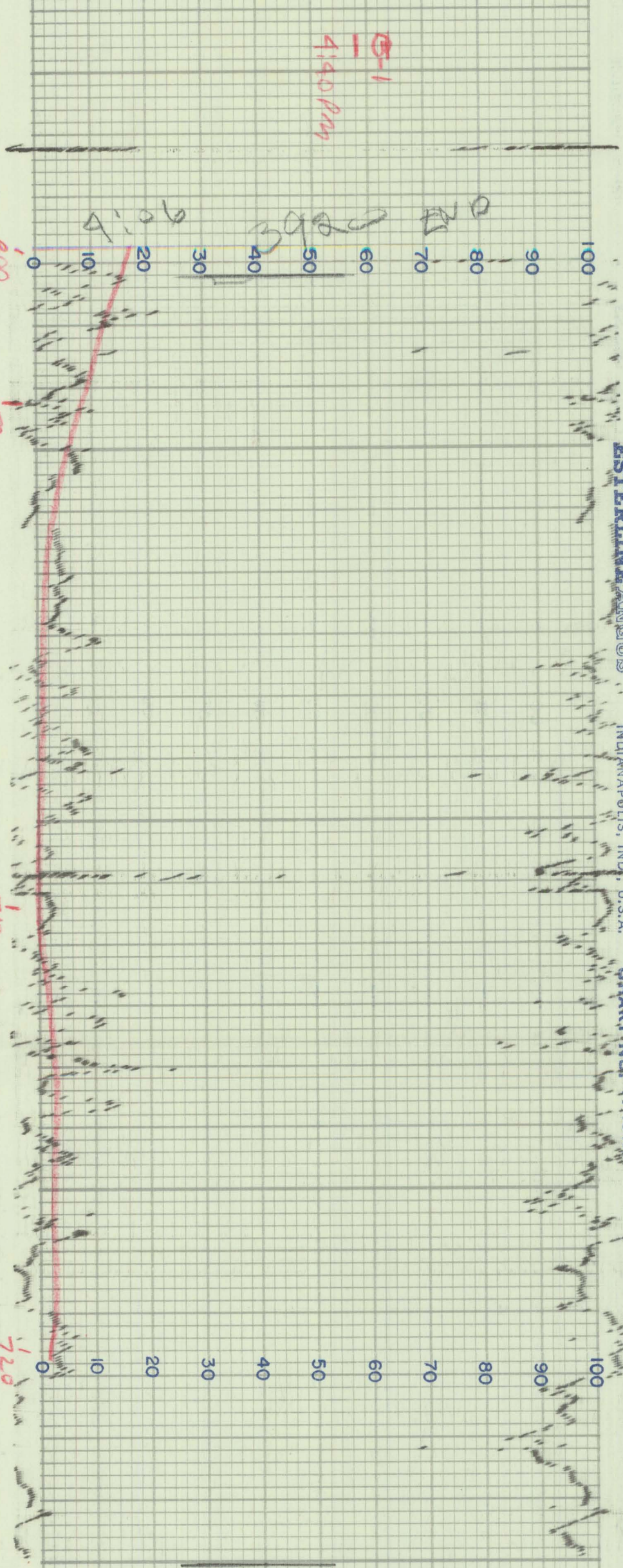
FOR: HECLA MINING CO.

RECORD NO. 11N DATE 9-27-67

SENSITIVITY 50 GAMMAS IN IN.

HORIZONTAL SCALE 400 FT./IN.

LOCATION



0+00 3'50 ST L-18

ON ROAD

HEINRICHS *GEOEXPLORATION CO.*

BOX 5671 TUCSON, ARIZONA 85703

Phone: (AREA 602) 623-0578

GEOPHYSICAL ENGINEERS

MOMAG TOTAL MAGNETIC INTENSITY RECORD

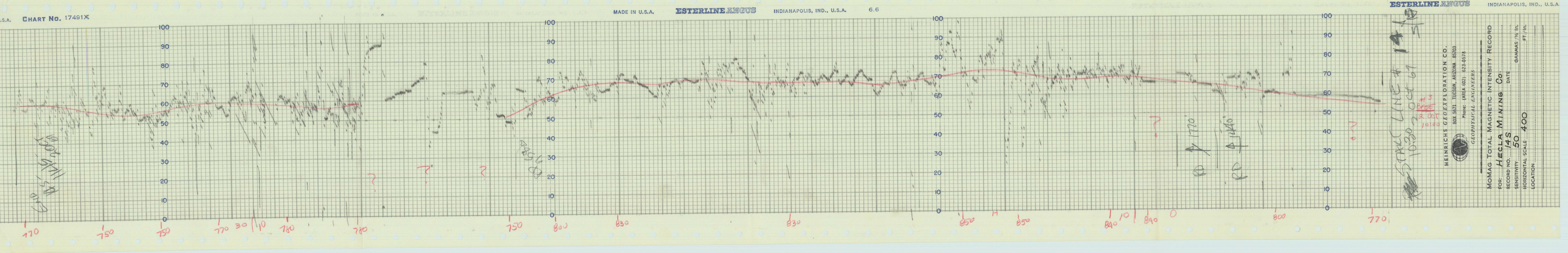
FOR: HECLA MINING CO.

RECORD NO. 18 DATE OCT. 19, 1967

SENSITIVITY 50 GAMMAS /½ In.

HORIZONTAL SCALE 400 FT./In.

LOCATION


S.A. CHART NO. 17491X
MADE IN U.S.A. ESTERLINE ANGUS INDIANAPOLIS, IND., U.S.A. 6.6
ESTERLINE ANGUS INDIANAPOLIS, IND., U.S.A.
HEINRICH'S GEOEXPLORATION CO.
BOX 5571 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-5578
GEOPHYSICAL ENGINEERS
MOMAG TOTAL MAGNETIC INTENSITY RECORD
FOR: HECLA MINING Co.
RECORD NO. 145
SENSITIVITY 50 GAMMAS IN 1in.
HORIZONTAL SCALE 400 FT/in.
LOCATION
DATE
770
750
750
770
780
740
750
800
830
830
850
850
840
840
800
770

0 10 20 #30 40 50 60 70 80 90 100

BASE CK 1500' 27 Sept

Newark Beacons

END 4750'

Road 3710'

0 10 20 30 40 50 60 70 80 90 100

13N

MADE IN U.S.A. ESTERLINE ANGUS INDIANAPOLIS, IND., U.S.A.

6.6

0 10 20 30 #13N 40 50 60 70 80 90 100

Sept 67

27

13N

HEINRICHS *GEOEXPLORATION CO.*

BOX 5671 TUCSON, ARIZONA 85703

Phone: (AREA 602) 623-0578

GEOPHYSICAL ENGINEERS

MOMAG TOTAL MAGNETIC INTENSITY RECORD

FOR: HECLA MINING CO.

RECORD NO. 13N DATE 9-27-67

SENSITIVITY 50 GAMMAS /½ In.

HORIZONTAL SCALE 400 FT./In.

LOCATION

ESTERLINE ANGUS · INDIANAPOLIS, IND., U.S.A. CHART NO. 17491X

END 3S
10380' 15:15

IGNORE

RD - X'ING #4
9780' 15:00

Water
5100'

Road
change
chart paper

3520

AM

START
3S 13:45 20 Sept 67

AM

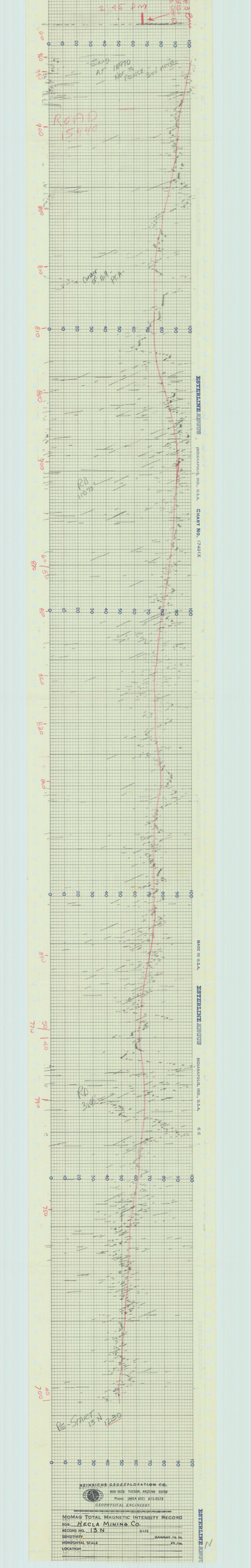
MADE IN U.S.A.

HEINRICHS GEOEXPLORATION CO.
BOX 5671 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0578
GEOPHYSICAL ENGINEERS

MOMAG TOTAL MAGNETIC INTENSITY RECORD

FOR: HECLA MINING CO.
RECORD NO. 3S DATE 9-20-67
SENSITIVITY 50 GAMMAS /½ In.
HORIZONTAL SCALE 400 FT./In.
LOCATION

ESTERLINE ANGUS · INDIANAPO



HEINRICHS GEOEXPLORATION CO.
BOX 5632 · TUCSON, ARIZONA · 85703
Phone: (AREA 602) 623-8021
GEOPHYSICAL ENGINEERS

MoMag Total Magnetic Intensity Record

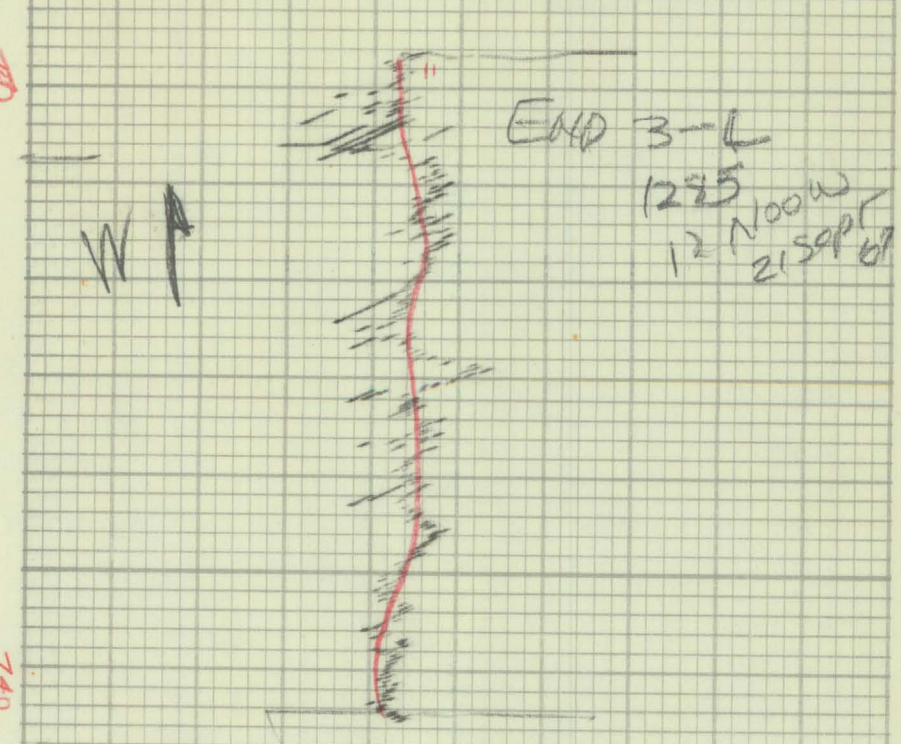
FOR Hecla Mining Co.

RECORD NO. 13N DATE

SENSITIVITY GAMMAS / ½ in.

HORIZONTAL SCALE FT. / in.

LOCATION



HEINRICHS GEOEXPLORATION CO.
BOX 5671 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0578
GEOPHYSICAL ENGINEERS

MADE IN U.S.A.

ESTERLINE ANGU

MOMAG TOTAL MAGNETIC INTENSITY RECORD

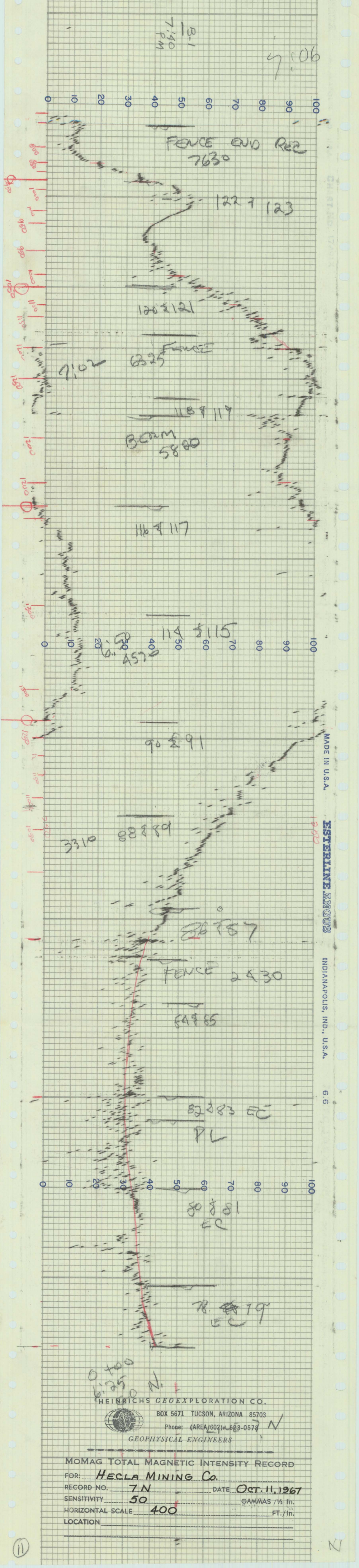
FOR: HECLA MINING CO

RECORD NO. 3-4 DATE 9-~~20~~21-67

SENSITIVITY 50 GAMMAS /½ In.

HORIZONTAL SCALE 400 FT./In.

LOCATION



HEINRICHS GEOEXPLORATION CO.

BOX 5671 TUCSON, ARIZONA 85703

Phone: (AREA/602) 623-0578

GEOPHYSICAL ENGINEERS

MOMAG TOTAL MAGNETIC INTENSITY RECORD

FOR: HECLA MINING CO.

RECORD NO. 7N DATE OCT. 11, 1967

SENSITIVITY 50 GAMMAS /½ In.

HORIZONTAL SCALE 400 FT./In.

LOCATION

(11)

N

3.03 END LINE 3020

3:00 PM

Eq. 65 & 64
2770

2970 FT
RANCH & FARM EQUIP

2:50 PM
0+00

GO S 19° E HERMES
TOWARDS RANCH

LINE "G"

WASH

2:45 PM

CROSS FENCE
1660

2:35 PM

// FENCE

GO S 25° W
HOUSE DUE SOUTH
OF THIS POINT

LINE "F"

0 10 20 30 40 50 60 70 80 90 100

HEINRICHS GEOEXPLORATION CO.
BOX 5671 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0578
GEOPHYSICAL ENGINEERS

MoMag TOTAL MAGNETIC INTENSITY RECORD

FOR: HECLA MINING CO.
RECORD NO. "F" & "G" DATE OCT. 11, 1967
SENSITIVITY 50 GAMMAS /½ In.
HORIZONTAL SCALE 400 FT./In.
LOCATION

MADE IN U.S.A. ESTERLINE ANGUS INDIANAPOLIS, IN D., U.S.A. CHART NO. 17491X

④

HEINRICHS GEOEXPLORATION CO.

BOX 5671 TUCSON, ARIZONA 85703

Phone: (AREA 602) 623-0578

GEOPHYSICAL ENGINEERS

MoMag Total Magnetic Intensity Record

FOR: Hecla Mining Co.

RECORD NO. 6 DATE Oct. 18, 1967

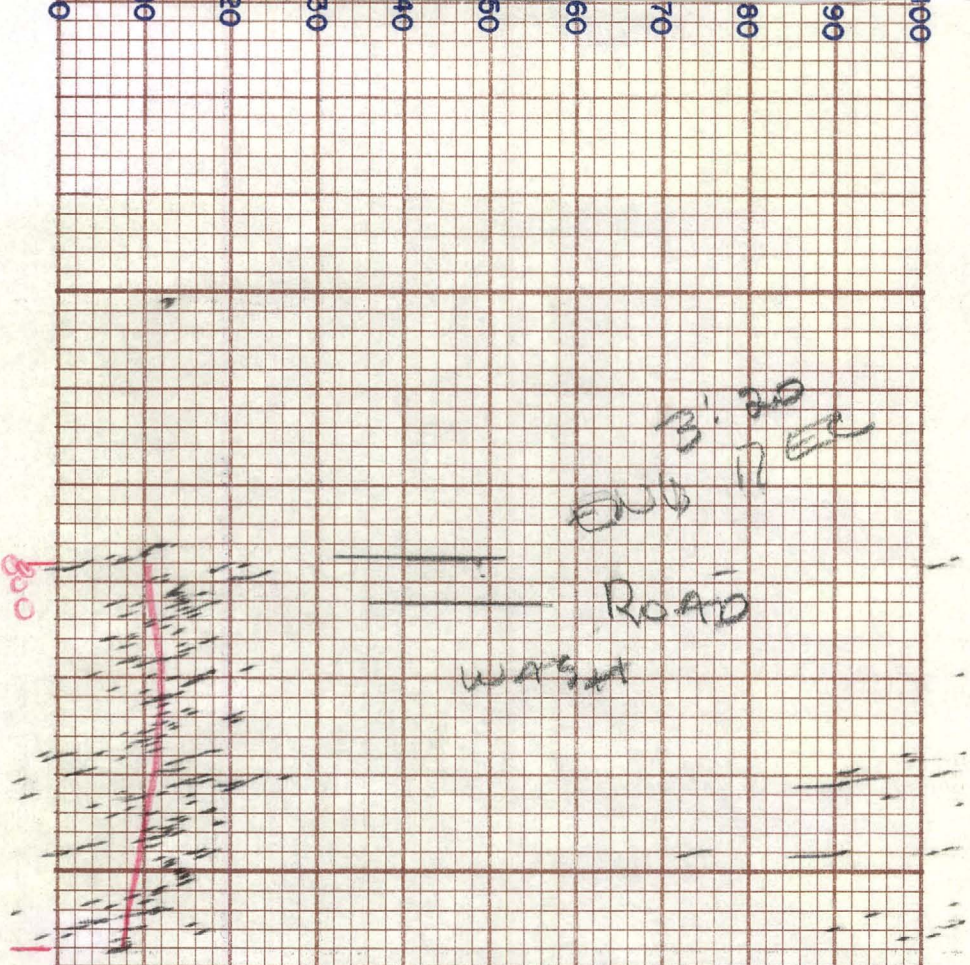
SENSITIVITY 50 GAMMAS /½ In.

HORIZONTAL SCALE 400 FT./In.

LOCATION

THE ESTERLINE-ANGUS CO. INDIANAPOLIS, IND., U.S.A. E.S.

MADE IN U.S.A.



HEINRICHS GEOEXPLORATION CO.
BOX 5671 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0578
GEOPHYSICAL ENGINEERS

MOMAG TOTAL MAGNETIC INTENSITY RECORD

FOR: Hecla Mining Co.

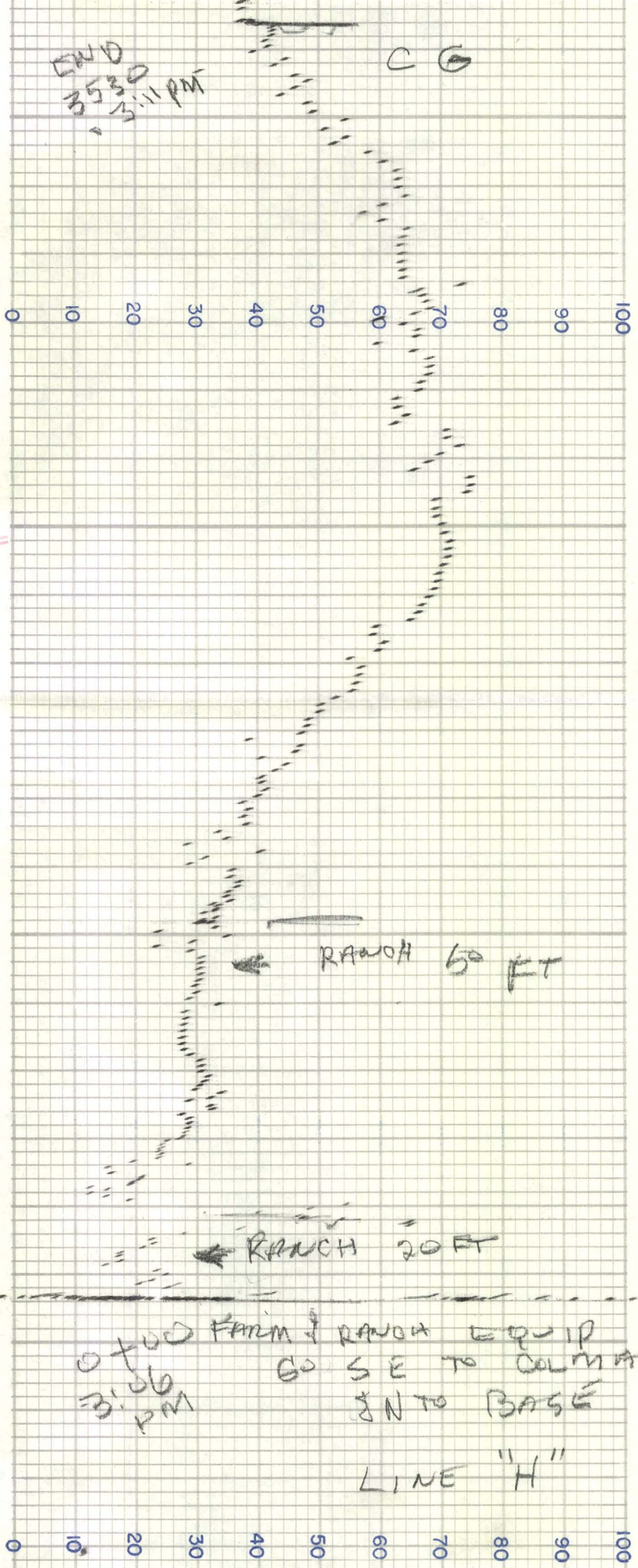
RECORD NO. 5 DATE Oct 18, 1967

SENSITIVITY 50 GAMMAS /½ In.

HORIZONTAL SCALE 400 FT./In.

LOCATION

N



HEINRICHS *GEOEXPLORATION CO.*

BOX 5671 TUCSON, ARIZONA 85703

Phone: (AREA 602) 623-0578

GEOPHYSICAL ENGINEERS

MoMag Total Magnetic Intensity Record

FOR: Hecla Mining Co.

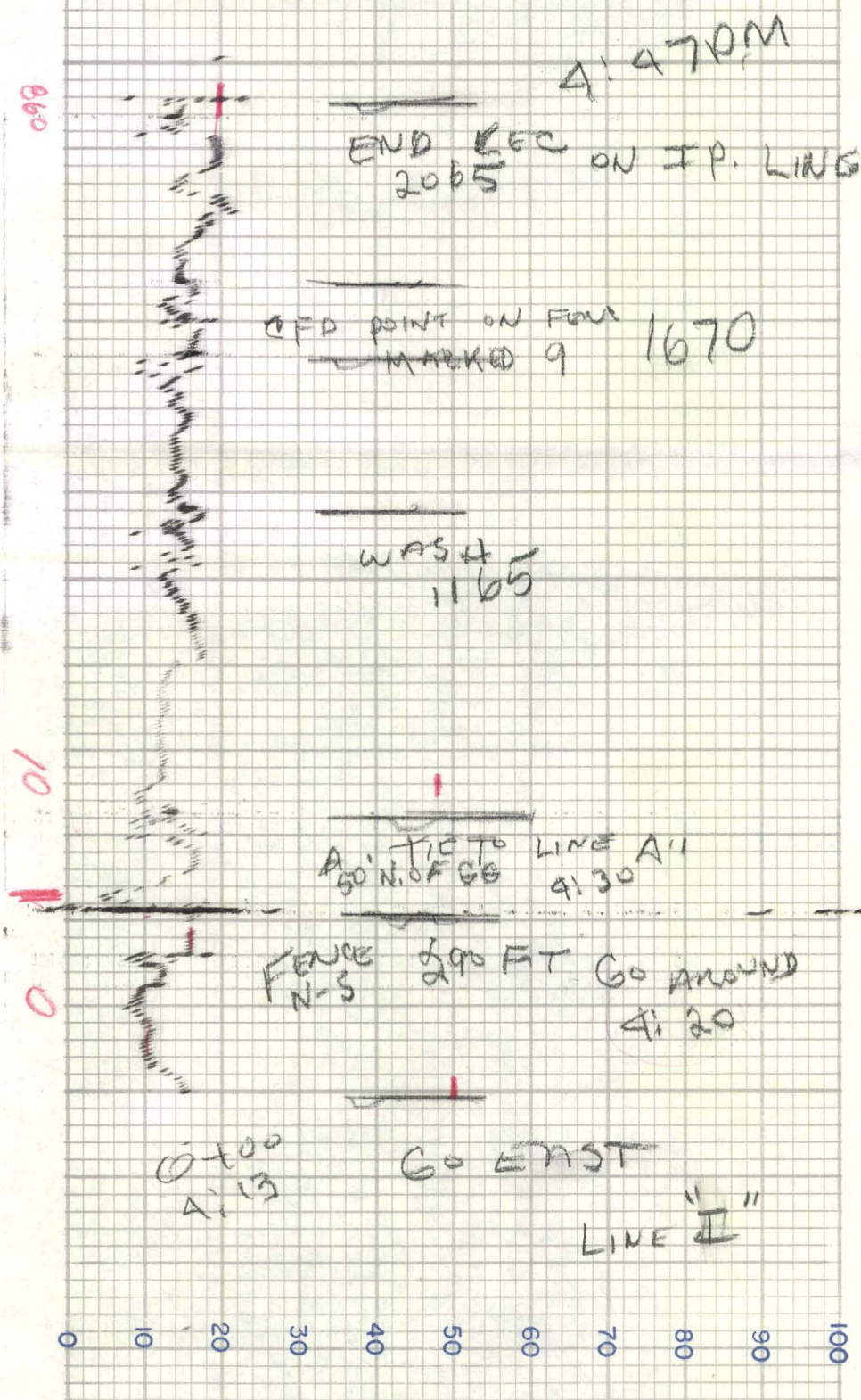
RECORD NO. "H" DATE Oct. 11, 1967

SENSITIVITY 50 GAMMAS /½ In.

HORIZONTAL SCALE 400 FT./In.

LOCATION

ESTERLINE AN



MADE IN U.S.A. ESTERLINE ANGUS INDIANAPOLIS, IND., U.S.A. 6.6

HEINRICHS GEOEXPLORATION CO.
BOX 5671 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0578
GEOPHYSICAL ENGINEERS

MOMAG TOTAL MAGNETIC INTENSITY RECORD

FOR: HECLA MINING CO

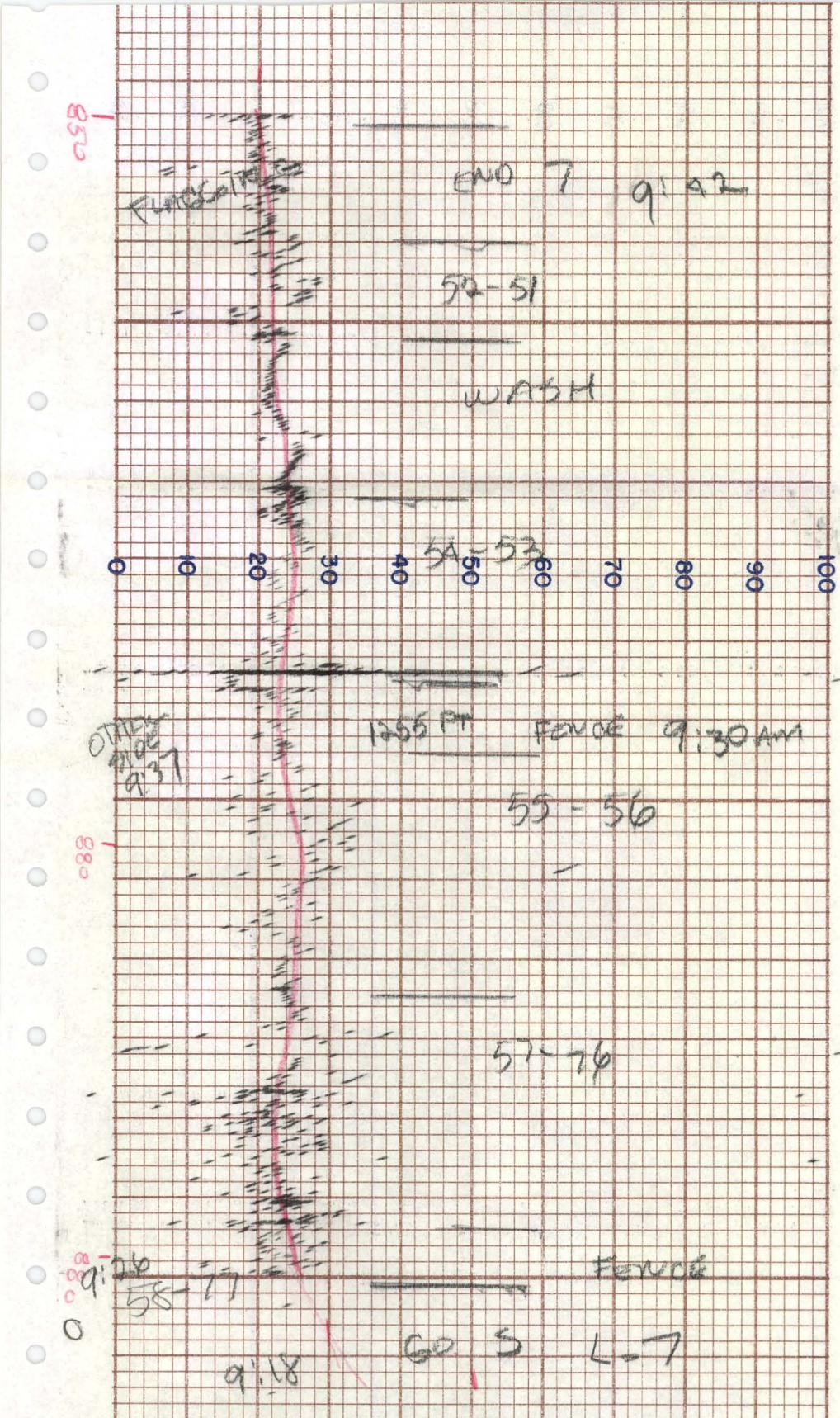
RECORD NO. "I" DATE OCT. 11, 1967

SENSITIVITY 50 GAMMAS /½ In.

HORIZONTAL SCALE 400 FT./In.

LOCATION

N



HEINRICHS GEOEXPLORATION CO.
BOX 5671 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0578
GEOPHYSICAL ENGINEERS

MOMAG TOTAL MAGNETIC INTENSITY RECORD

FOR: HECLA MINING CO.

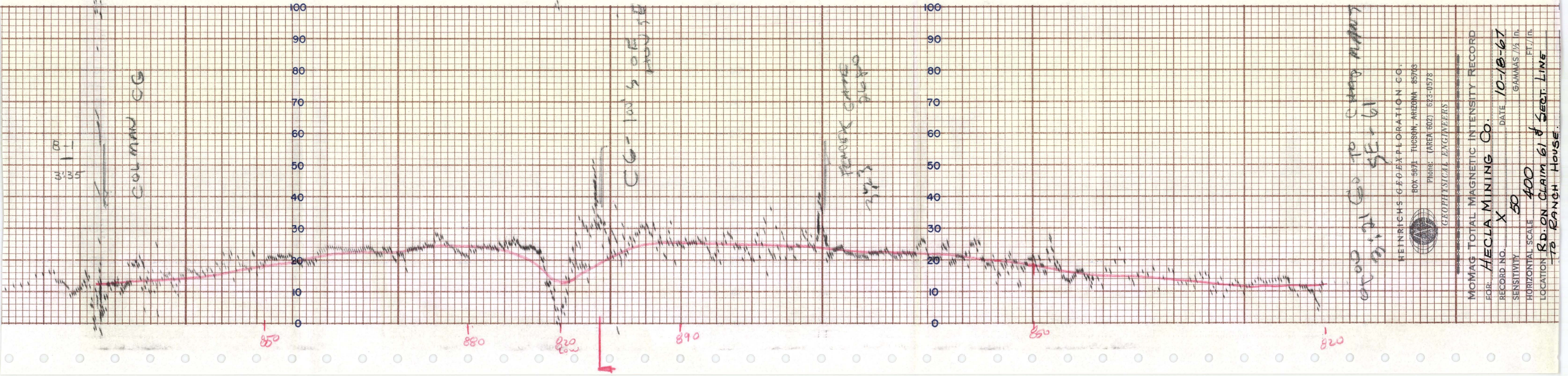
RECORD NO. 7 DATE OCT 18, 1967

SENSITIVITY 50 GAMMAS /½ In.

HORIZONTAL SCALE 400 FT./In.

LOCATION

INDIANAPOLIS, IND., U. S. A. E.S. THE ESTERLINE-ANGUS CO. INDIANAPOLIS, IND., U. S. A. CHART NO. 17491X



MOMAG TOTAL MAGNETIC INTENSITY RECORD
FOR: HECLA MINING CO.
RECORD NO. X 50 400 DATE 10-18-67
SENSITIVITY GAMMAS/1/4 IN. FT./IN.
HORIZONTAL SCALE
LOCATION RD. ON CLAIM 61 & SECT. LINE TO RANCH HOUSE

HENRICHS GEOEXPLORATION CO.
BOX 5601 TUCSON, ARIZONA 85703
PHONE (AREA 602) 623-0578
GEOPHYSICAL ENGINEERS

END SEC COR - 970 FT

7 16

2400 GO E

2-1-67

HEINRICHS GEOEXPLORATION CO.
BOX 5671 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0578
GEOPHYSICAL ENGINEERS

MoMag Total Magnetic Intensity Record

FOR: Hecla Mining Co.

RECORD NO. 6-5 DATE Oct 18, 1967

SENSITIVITY 50 GAMMAS /½ In.

HORIZONTAL SCALE 400 FT./In.

LOCATION

THE ESTERLINE-ANGUS CO. INDIANAPOLIS, IND., U.S.A. E.S.

FOUND FLAG L-6

3:06 END L-6 3800

WENT N 3260

ROAD 2730

3:13 ANOTHER FLAG 6580

3:19 PM OTHER SIDE

3:36 OTHER SIDE 3:18 END FLAG 1980

0:11 PM 0+00 NE COR. 81 Co FROM CHAPMAN RD ON LINE 6

HEINRICHS GEOEXPLORATION CO.

BOX 5671 TUCSON, ARIZONA 85703

Phone: (AREA 602) 623-0578

GEOPHYSICAL ENGINEERS

MOMAG TOTAL MAGNETIC INTENSITY RECORD

FOR: HECLA MINING CO.

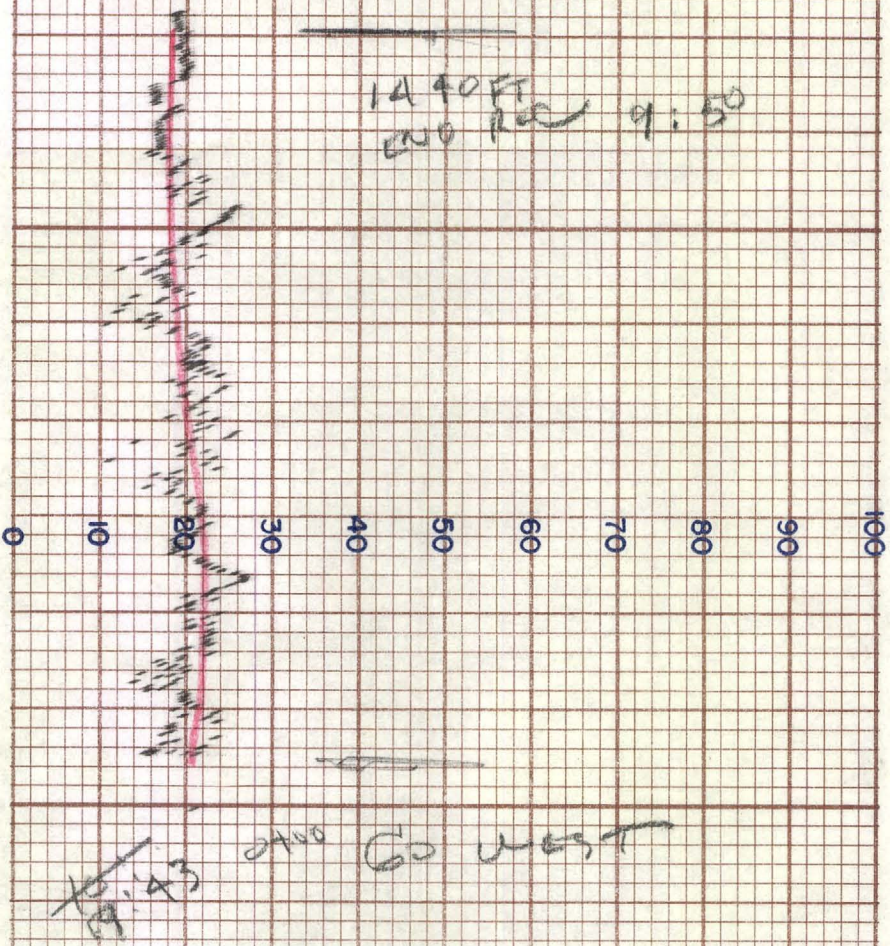
RECORD NO. 6 DATE OCT 18, 1967

SENSITIVITY 50 GAMMAS /½ In.

HORIZONTAL SCALE 400 FT./In.

LOCATION

THE ESTERLINE-ANGUS CO. INDIANAPOLIS, IND., U.S.A. CHART NO. 17491X



HEINRICHS *GEOEXPLORATION CO.*

BOX 5671 TUCSON, ARIZONA 85703

Phone: (AREA 602) 623-0578

GEOPHYSICAL ENGINEERS

MOMAG TOTAL MAGNETIC INTENSITY RECORD

FOR: HECLA MINING CO.

RECORD NO. 7-8 S. DATE OCT 18, 1967

SENSITIVITY 50 GAMMAS /½ In.

HORIZONTAL SCALE 400 FT./In.

LOCATION

THE ESTERLINE-ANGUS CO. INDIANAPOLIS, IND., U. S.

N

END RE
6:10
9:13 PM

EC 19-20

EC 21-22

EC 24-23
E-W ROAD 45° SOUTH

EC 26-25

EC 27-28
3 ROAD

EC
29-30

EC 31-32

33-34
EC

EC 35-36

62-63
EC

at 0
3:57 60 S. POINT S OF
E. C. 64 & 65
REC 11

LOCATION
HORIZONTAL SCALE FT./In.
SENSITIVITY GAMMAS /½ In.
RECORD NO. DATE
FOR:

MOMAG TOTAL MAGNETIC INTENSITY RECORD

GEOPHYSICAL ENGINEERS

Phone: (AREA 602) 623-0578
BOX 5671 TUCSON, ARIZONA 85703
HEINRICHS GEOEXPLORATION CO.

0 10 20 30 40 50 60 70 80 90 100

HEINRICHS GEOEXPLORATION CO.
BOX 5671 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0578
GEOPHYSICAL ENGINEERS

MOMAG TOTAL MAGNETIC INTENSITY RECORD

FOR: HECLA MINING CO.
RECORD NO. 11-S DATE OCT. 11, 1967
SENSITIVITY 50 GAMMAS /½ In.
HORIZONTAL SCALE 400 FT./In.
LOCATION

(5)

ESTERLINE ANGUS
INDIANAPOLIS, IND., U.S.A.
CHART NO. 17491X
MADE IN U.S.A.

END REC 1:25

6.6

4510

TANK → 150 FT

0 10 20 30 40 50 60 70 80 90 100

2980 E.C 27 - 28

NO BREAK

GATE GATE

2600

500

GO WEST 1:05

START D

HEINRICHS GEOEXPLORATION CO.

BOX 5671 TUCSON, ARIZONA 85703

Phone: (AREA 602) 623-0578

GEOPHYSICAL ENGINEERS

MOMAG TOTAL MAGNETIC INTENSITY RECORD

FOR: HECLA MINING CO.

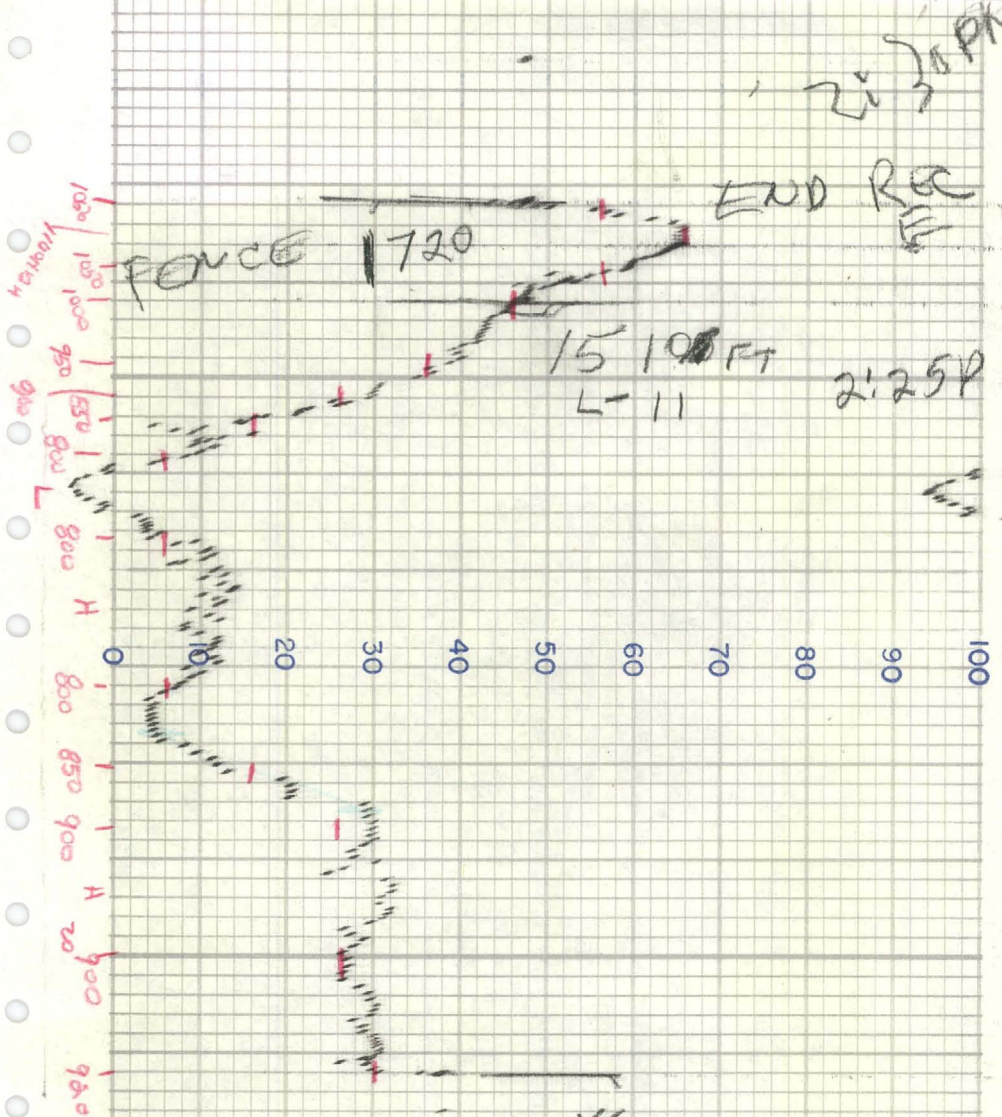
RECORD NO. "D" DATE OCT 11, 1967

SENSITIVITY 50 GAMMAS /½ In.

HORIZONTAL SCALE 400 FT./In.

LOCATION

ESTERLINE ANGUS INDIANAPOLIS, IND., U.S.A. CHART NO. 10



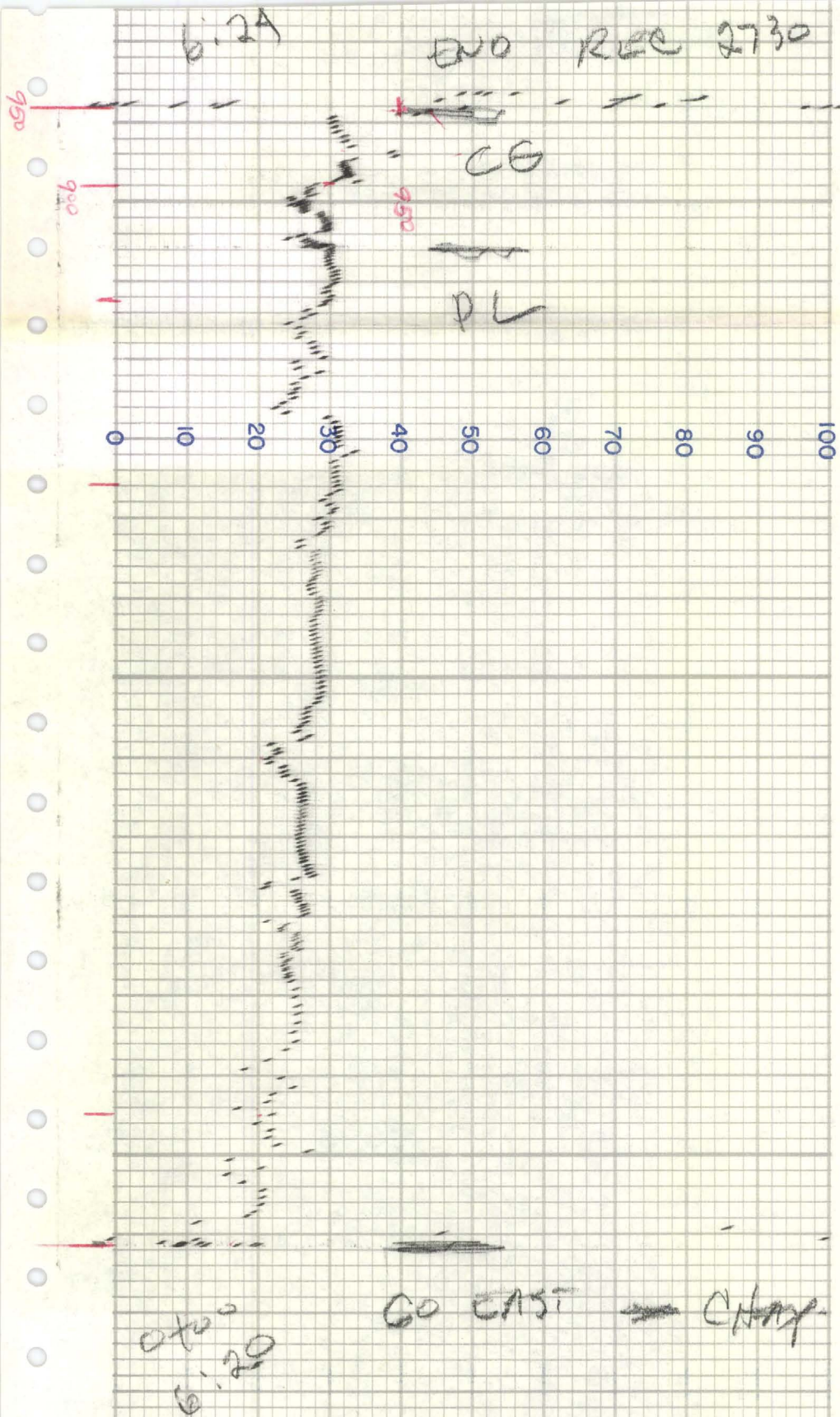
LINE "E" GO EAST ~ 11 TO BERM & RES FENCE

HEINRICHS *GEOEX*PLORATION CO.
BOX 5671 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0578
GEOPHYSICAL ENGINEERS

MoMag Total Magnetic Intensity Record

FOR: Hecla Mining Co.
RECORD NO. "E" DATE Oct. 11, 1967
SENSITIVITY 50 GAMMAS /½ In.
HORIZONTAL SCALE 400 FT./In.
LOCATION

N



ESTERLINE ANGUS INDIANAPOLIS, IND., U.S.A. CHART NO. 17491X

HEINRICHS *GEOEXPLORATION CO.*

BOX 5671 TUCSON, ARIZONA 85703

Phone: (AREA 602) 623-0578

GEOPHYSICAL ENGINEERS

MOMAG TOTAL MAGNETIC INTENSITY RECORD

FOR: HECLA MINING CO.

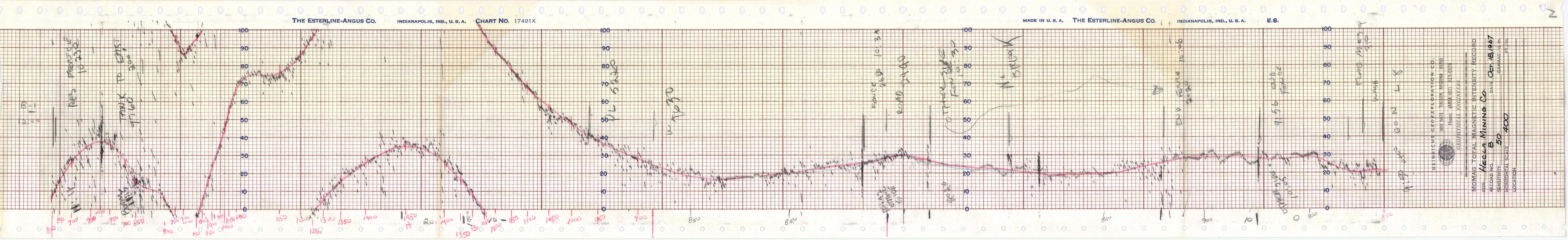
RECORD NO. "K" DATE OCT 11, 1967

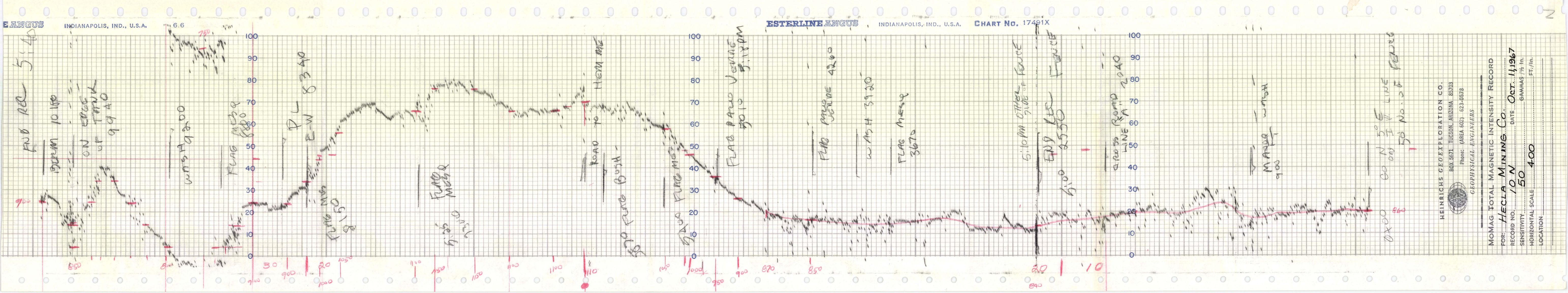
SENSITIVITY 50 GAMMAS /½ In.

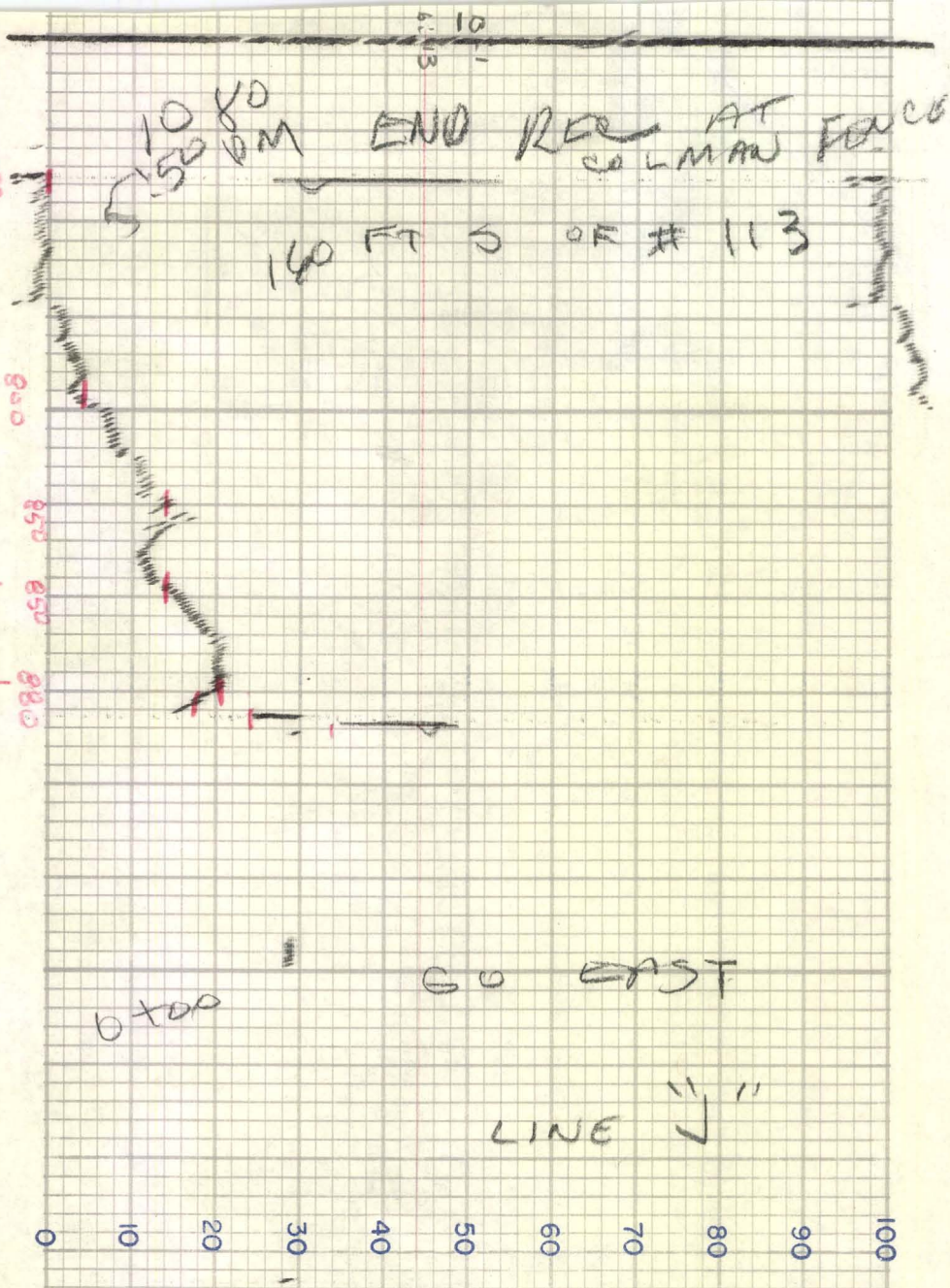
HORIZONTAL SCALE 400 FT./In.

LOCATION

N


THE ESTERLINE-ANGUS CO. INDIANAPOLIS, IND., U. S. A. CHART NO. 17491X
MADE IN U. S. A. THE ESTERLINE-ANGUS CO. INDIANAPOLIS, IND., U. S. A. E.S.
HELIKETICS GEOPHYSICAL EXPLORATION CO.
MONTHLY TOTAL MAGNETIC INTENSITY RECORD
Oct 16, 1967
50
400
HORIZONTAL SCALE
LOCATION


ESTERLINE ANGUS INDIANAPOLIS, IND., U.S.A. CHART No. 17491X
INDIANAPOLIS, IND., U.S.A.
END REC 5:45
DRAIN 10 NW
ON EDGE OF POND
9940
WASH 9900
FLAG MESA 9800
FLAG MESA 9800
FLAG MESA 9800



HEINRICHS *GEOEXPLORATION CO.*

BOX 5671 TUCSON, ARIZONA 85703

Phone: (AREA 602) 623-0578

GEOPHYSICAL ENGINEERS

MoMag Total Magnetic Intensity Record

FOR: Hecla Mining Co.

RECORD NO. "J" DATE Oct. 11, 1967

SENSITIVITY 50 GAMMAS /½ In.

HORIZONTAL SCALE 400 FT./In.

LOCATION

MADE IN U.S.A.