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Arizona Geological Survey
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Phoenix, AZ, 85012
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http://www.azgs.az.gov
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Memo to

re: Inspiration ← (F)
memory Reed

9/20

according to

Pat Ryan:

went to Leach.

---

he will send us a C.C.

PHELPS DODGE MERCANTILE CO.
HARDWARE JOBBING DIVISION
DOUGLAS, ARIZONA
P. O. Box 351 Phone EMpire 4-2434

INDUCED POLARIZATION - RECEIVER NOTES PAGE _____

Project: _____ Line: _____ Int.Cal _____ Date: _____

Send	45	12	23	34	45		Cal					
Rec.	→	56N	→	→	→		12					
Time	1.0	1.0	1.0	1.0	1.0		30					
DC-1	.36 ? .45	.25 .38	.20 .26	.29 .28	.21 .20		15.3					
DC-2	.36 .44	.28 .36	.195 .270	.30 .26	.20 .20		15.3					
Σ	.81 .80	.53 .54	.46 .425	.57 .56	.41 .40		30.6					
DC-3	.35 .48	.32 .29	.23 .24	.32 .25	.195 .22		15.3					
Dc-4	.45 ? .37	.31 .29	.22 .24 ?	.30 ? .27	.195 .22		15.3					
Σ	.83 .82	.61 .60	.47 .46	.57 .57	.415 .417		30.6					
DC-AV	.82	.62	.465	.57	.41		.98					
AC-1	.41	.3	.24	.28	.19		15.1					
AC-2	.40	.3	.23	.28	.19		15.1					
Σ	.81	.60	.47	.56	.38		30.2					
S. P.	+38.3	-31.0			-32.0							
AC-N	.06	.04			.04							
	55.0				55.0							

INDUCED POLARIZATION - RECEIVER NOTES PAGE _____

Project: _____ Line: _____ Int.Cal _____ Date: _____

Send												
Rec.												
Time												
DC-1												
DC-2												
Σ												
DC-3												
Dc-4												
Σ												
DC-AV												
AC-1												
AC-2												
Σ												
S. P.												
AC-N												

INDUCED POLARIZATION - RECEIVER NOTES PAGE _____

Project: _____ Line: _____ Int.Cal _____ Date: _____

Send												
Rec.												
Time												
DC-1												
DC-2												
Σ												
DC-3												
Dc-4												
Σ												
DC-AV												
AC-1												
AC-2												
Σ												
S. P.												
AC-N												

Internal Quaking Batt.
" Noise
MV X100 on 1 on D.C

RANGE = .1 = 100 mv
Short input terminal
Should read 52 MV

cal.
Send 7 X 3 amp.

Rang = 30 .1

INDUCED POLARIZATION - RECEIVER NOTES PAGE _____

Project: Big Jim Line: 1 N½ Int.Cal _____ Date: 8-19-64

Send	34	45	23	34	45	12	23	34	45	12	23	34
Rec.	12N →		23N		→	34N			→	45N		
Time R.	100	30	100	10	10	30	10	10	30	30	30	10
DC-1	29.5	9.1	36.2	9.40 9.60	4.0 4.1	26.5 26.7	9.65 9.50	5.0 5.1	2.8 2.75	1.45 1.53	1.04 1.02	.54 .57
DC-2	29.0	8.2	36.0	9.30 9.80	4.0 4.0	26.5 26.6	9.65 9.30	4.95 4.20	2.95 2.75	1.42 1.52	1.06 1.00	.53 .56
Σ	58.5	17.4	72.2	19.00 19.10	8.1 8.0	53.2 53.1	19.15 18.95	10.1 9.05	5.55 5.70	2.98 2.94	2.06 2.06	1.11 1.09
DC-3	29.5	9.1	36.2	9.50 9.70	4.10 3.95	26.5 26.5	9.60 9.50	5.1 5.1	2.85 2.85	1.43 1.52	1.07 .98	.56 .55
Dc-4	29.0	8.2	36.0	9.40 9.70	4.05 4.05	26.5 26.4	9.60 9.60	5.15 5.00	2.80 2.85	1.45 1.50	1.00 1.05	.54 .56
Σ	58.5	17.3	72.2	19.20 19.10	8.05 8.10	53.0 52.9	19.30 19.20	10.2 10.15	5.65 5.70	2.95 2.95	2.05 2.05	1.10 1.10
DC-AV	58.5	17.35	72.2	19.10	8.6	53.1	19.15	10.15	5.67	2.95	2.055	1.10
AC-1	27.0	8.0	33.0	8.65	3.75	23.3	8.3	4.65	2.55	1.28	.92	.52
AC-2	26.5	8.0	33.0	8.70	3.75	23.4	8.3	4.55	2.56	1.29	.92	.515
Σ	53.5	16.0	66.0	17.35	7.50	46.7	16.6	9.10	5.11	2.57	1.84	1.035
S. P.	+4.1	+3.0	+64.0		+63.0	+138.0			+136.3	+23.7		
AC-N	.05	.05	.1		.08	.			.08	.05		
		58.0			55.0				55.0			

November 21, 1962

Mr. E. F. Reed, Chief Geologist
Inspiration Consolidated Copper Co.
Inspiration, Arizona

Dear Mr. Reed:

Enclosed are profile plots of the magnetics done with the Jalander Magnetometer in the Patagonia area on November 17, 1962. As Hugh requested, the road traverse is plotted on MoMag paper, though at a different scale than it would be run by the MoMag.

The over all results have little interprative meaning, without detailed geology and/or follow up magnetics. Profile No. 1 shows little anomalism, barely exceeding 100 gammas. Profile No. 2 shows considerably more, and possibly is showing an anomalous zone east of the mine dump at about 400E and a fault west of the mine dump. This would have to be checked to confirm it.

The road traverse shows a broad high in relatively flat ground north and south of the Mowry area and this could be quite significant. After turning westerly on the Nogales road the readings become quite erratic, with a maximum deviation of about 1,000 gammas.

In summary, there is considerable magnetic deviation in the district and magnetics to be useful would have to be done in more detail and used in conjunction with geology. The work, to date, does not pin point a significant anomaly.

Respectfully,

HEINRICHS GEOEXPLORATION CO.

C. S. Ludwig

C. S. Ludwig
Geophysicist

CSL:jh
Enclosures:
1 index map
2 profiles
1 road traverse

Geoex Copy

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

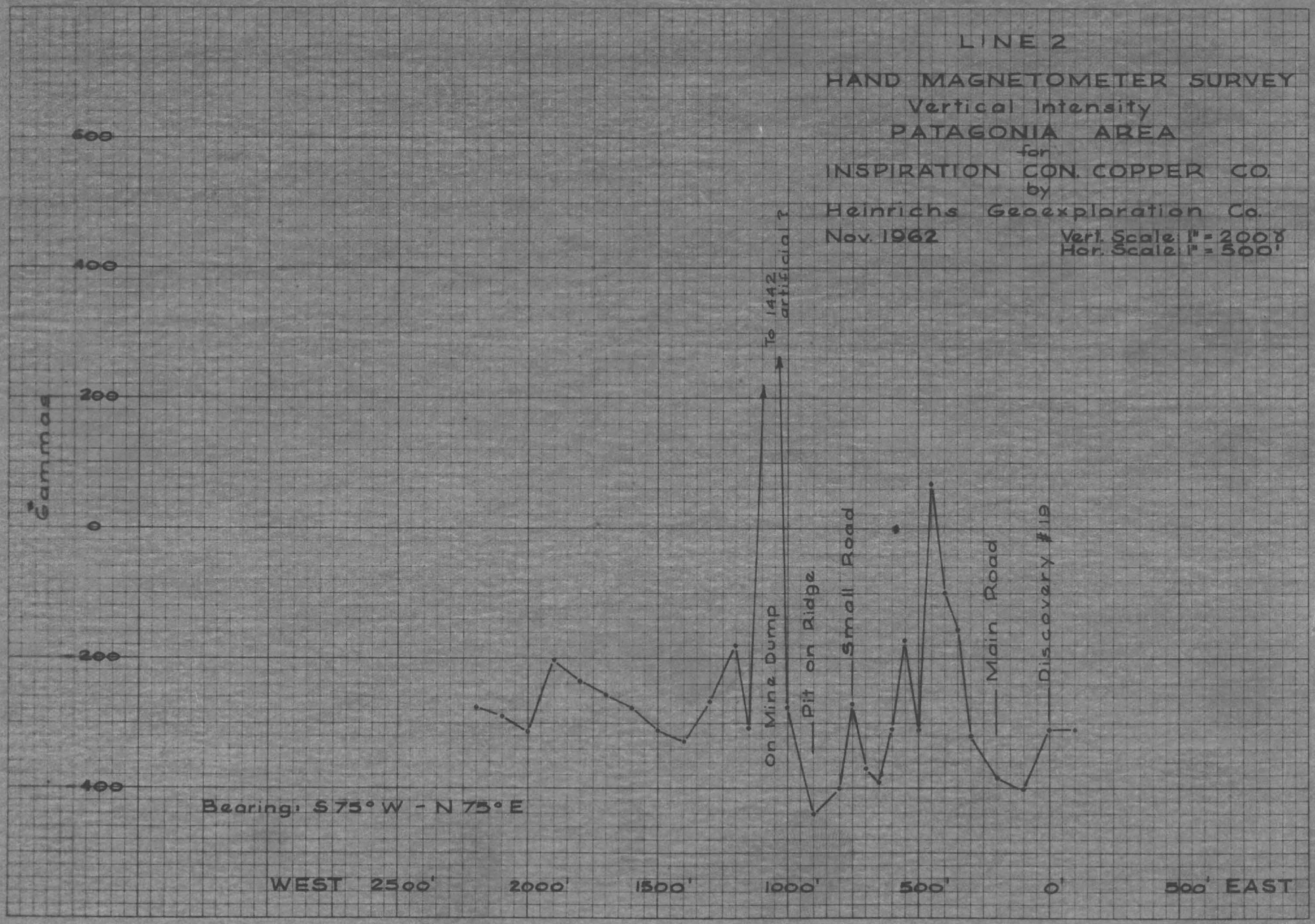
UNITED STAT
DEPARTMENT OF TH
CORPS OF ENGIN

LOCATION MAP
MAGNETIC TRAVERSES
PATAGONIA AREA
for
INSPIRATION CON. COPPER CO.
by
Heinrichs Geoexploration Co.
Nov. 1962 Scale: 1" = 1 mile

VERTICAL INTENSITY

NO. 340R-10 DIETZGEN GRAPH PAPER
10 X 10 PER INCH

EUGENE DIETZGEN CO.
MADE IN U. S. A.



NO. 340R-10 DIETZGEN GRAPH PAPER
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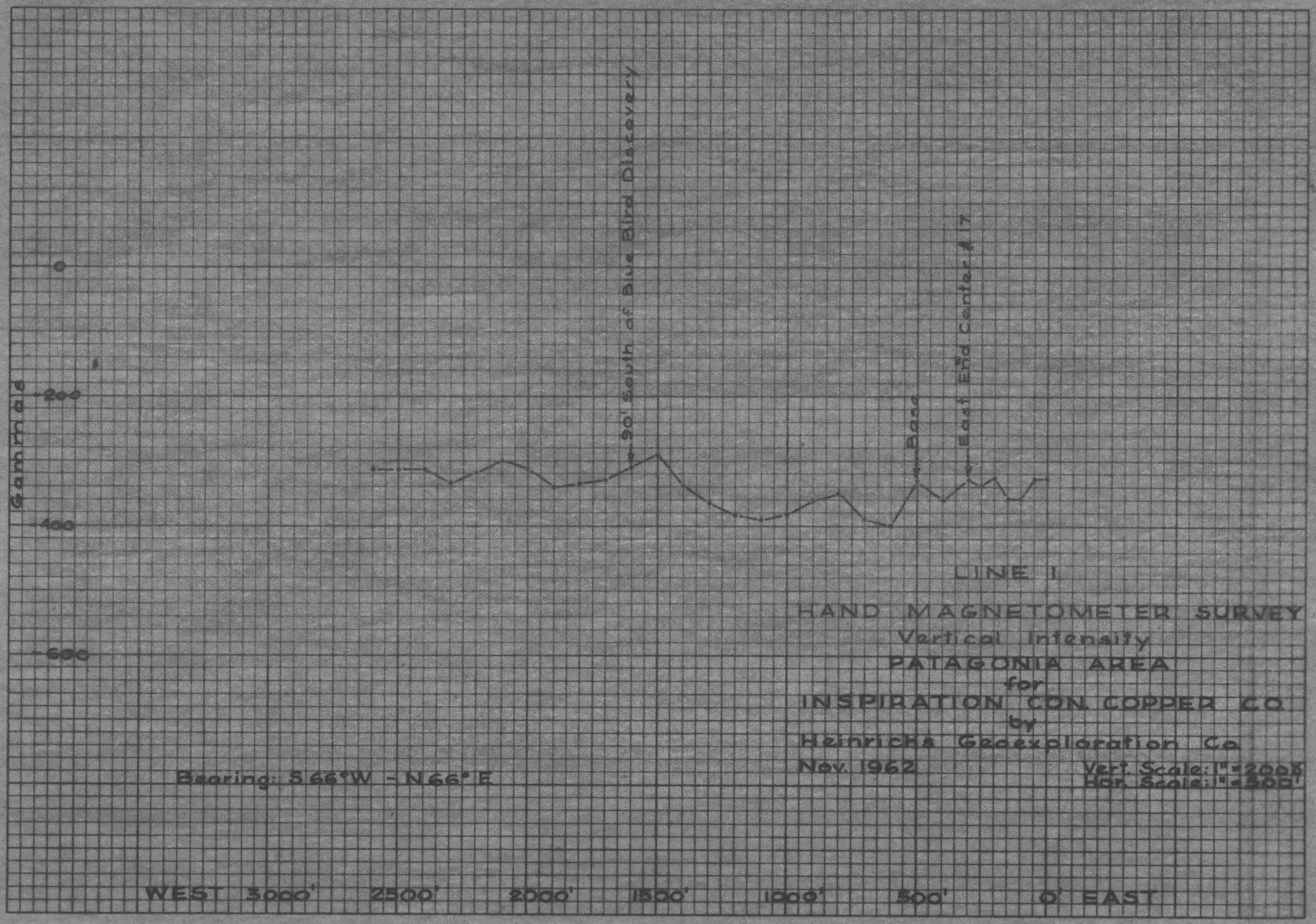

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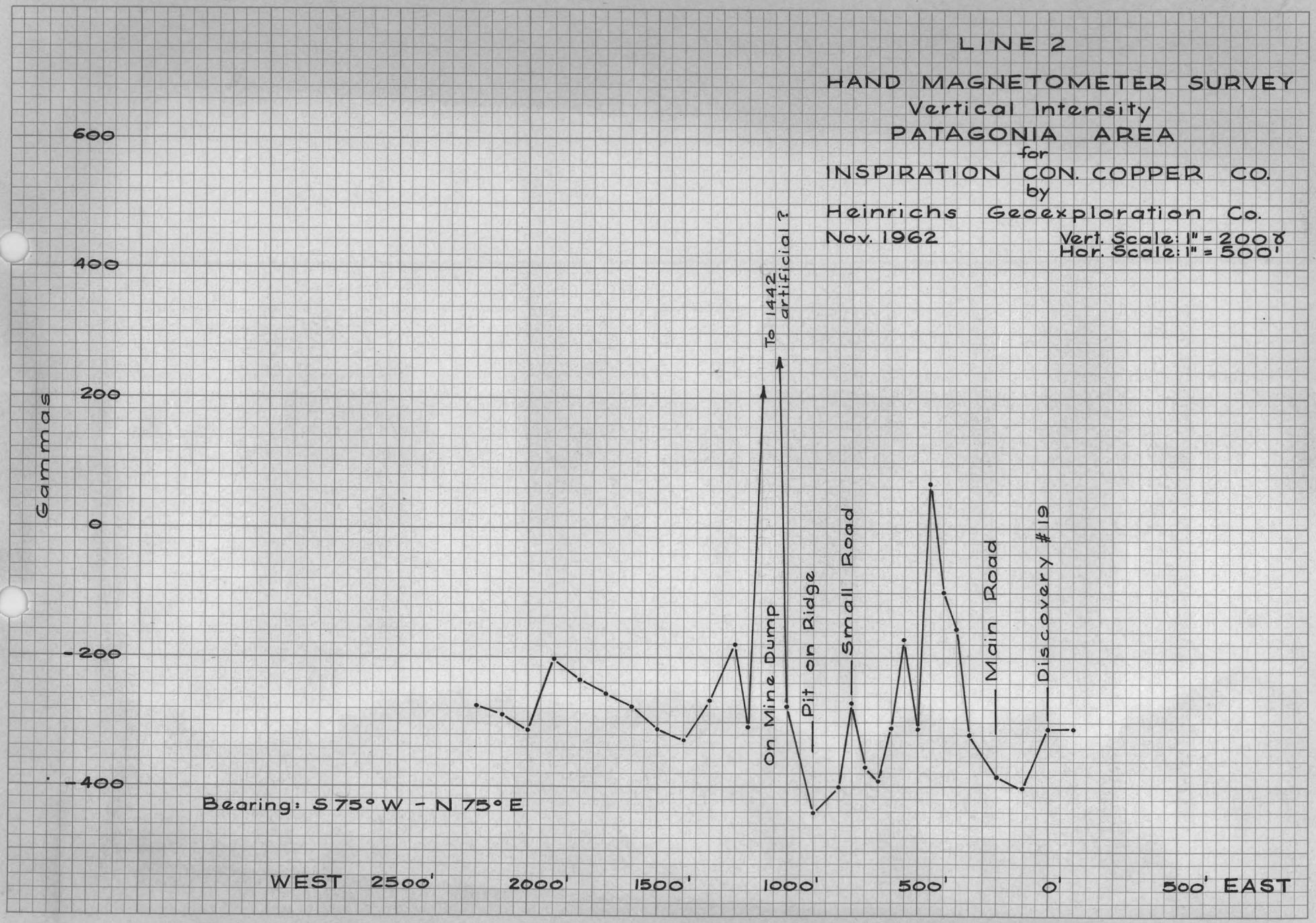

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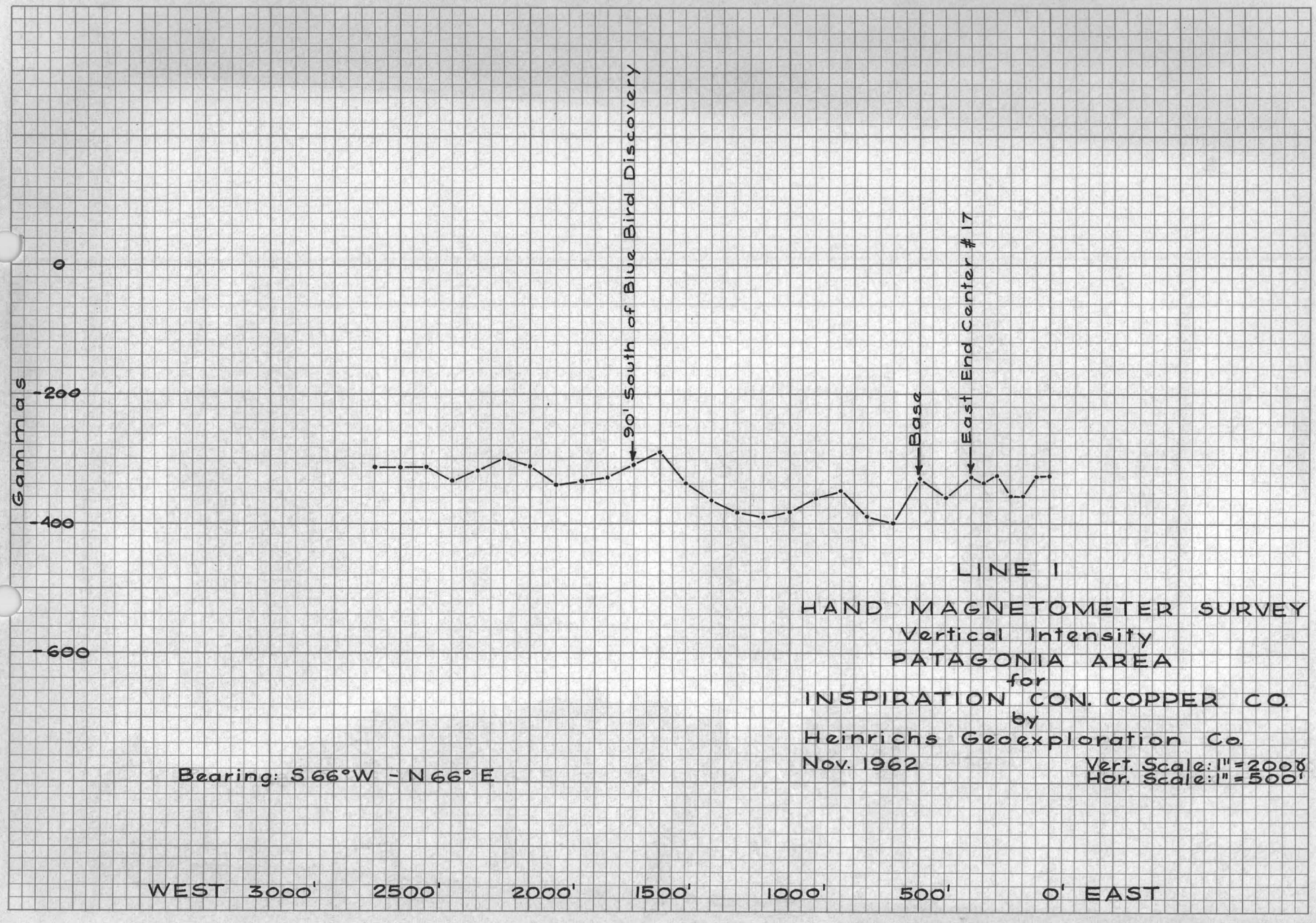

Inspiration Con. Copp
Chris Ludwig & D. Graff Co.

PATAGONIA
17 NOV 62

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

Pos.	Range	Read.	Time	γ
LINE 1 S 66 W				
0 W	-1	32	1000	330
.5 W	-1	32		330
1.0 W	-1	35		361
1.5 W	-1	35		361
2.0 W	-1	32		330
2.5 W	-1	33		340
EXC. 3 #17	-1	32		330
4.0 W	-1	35		361
5.0 W BASE	-1	32		330
NEAR WASH				
6.0 W	-1	39		402
7.0 W	-1	38		391
8.0 W	-1	34		350
9.0 W	-1	35		361
10.0 W	-1	37		381
11.0 W	-1	38		391
12.0 W	-1	37		381
13.0 W	-1	35		361
14.0 W	-1	33		340
15.0 W IN WASH	-1	28		288
16.0 W 90 ft S. OF BLUE BIRD MONUMENT	-1	30		309
17.0 W	-1	32		330
18.0 W	-1	32		330
19.0 W	-1	33		340
20.0 W	-1	30		309

J. C. PARKER
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LEEDS & NORTHRUP CO. PHILADELPHIA 7, PA., MADE IN U.S.A.

PATAGONIA
17 NOV
2

POS	RANGE	READ	TIME	γ	TR. MK. REG. U.S. PAT. OFF.
21.0W	-1	29			299
22.0W	-1	31			319
23.0W	-1	32			330
24.0W	-1	30			309
25.0W	-1	30			309
26.0W	-1	30	1105		309
END LINE 1					
BASE	-1	34			350
BEGIN LINE 2				S 75 W	
1.0E	-1	30			309
0 EW	-1	30	1145		309
AT LOCATION (OSSI #19)					
1.0W	-1	39			402
2.0W	-1	37			381
IN MIDDLE OF ROAD					
3.0W	-1	31			319
3.5W	-1	15			155
4.0W	-1	10			103
4.5W	+1	7			72
5.0W	-1	30			309
5.5W	-1	17			175
6.0W	-1	34			350
6.5W	-1	38			391
7.0W	-1	36			371
7.5W	-1	26			268
ON ROAD (SMALL)					
8.0W	-1	39			402
9.0W	-1	43			443
AT DISC. PIT ON RIDGE					

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PATAGONIA
7 NOV 62
3

ORIGINAL COPR. 1910 BY J. C. PARKER

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

	POS	RANG	READ	TIME	X	
	10.0W	-1	27			278
	11.0W	+1	140?			1442
	ON DUMP (LARGE)					
	11.5W	-1	30			309
	12.0W	-1	18			185
	13.0W	-1	26			268
	14.0W	-1	32			330
	15.0W	-1	30			309
	16.0W	-1	27			278
	17.0W	-1	25			258
ADIT	18.0W	-1	23			237
	19.0W	-1	20			206
	20.0W	-1	30			309
	21.0W	-1	28			288
	22.0W	-1	27	1245		278
	2.0W	-1	37			381

BEGIN LINE 3 ROAD TRAVERSE (IN .1 MILES)

	AT BASE					
	BASE	-1	32			330
	0.1	-1	35			361
	0.2	-1	37			381
	0.3	-1	41			422
	0.4	-1	42			433
	0.5	-1	27			278
	0.6	-1	21			216
	0.7	-1	16			165
	0.8	-1	7			72
	0.9	+1	3			31
	1.0	+1	6	1345		62
	1.1	+1	7			72

(4)

LEFAX, PHILADELPHIA 7. PA., MADE IN U.S.A.

PATAGONIA
17 ROUGH
4
TR.MK. REG. US. PAT. OFF.

Pos	RANGE READ	TIME	
1.2	−1	7	72
at Rd. P to Morning Glory Mine			
1.3	−1	3	31
1.4	+1	3	31
1.5	+1	1	10
1.6	−1	1	10
1.7	+1	1	10
1.8	+1	6	62
1.9	+1	8	82
2.0	+1	10	103
2.1	+1	12	124
2.2	+1	13	134
2.3	+1	12	124
2.4	+1	7	72
2.5	+1	5	52
by mine road (name on right)			
2.6		0	0
by Mowry Mine Road			
2.7	+1	2	21
2.8	+1	6	62
2.9	+1	9	93
3.0		0	0
3.1	+1	10	103
3.2	+1	2	21
3.3	−1	5	52
3.4	−1	11	113
3.5	−1	22	227
3.6	−1	33	340
3.7	−1	23	237
3.8	−1	26	268
3.9	−1	20	206

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LEFAX PHILADELPHIA 7, PA. DE IN U.S.A.

POS	RANGE	READ			TR. REG.	US. PAT. OFF
4.0	-1	19			196	
4.1	-1	10			103	
4.2	+1	7			72	
4.3	-1	13			134	
4.4	-1	9			93	
4.5	-1	6			62	
4.6	-1	8			82	
4.7	-1	12			124	
4.8	-1	19			196	
4.9	-1	20			206	
5.0	-1	25			258	
5.1	-1	22			227	
5.2	-1	24			247	
5.3	-1	26	1437		268	
5.4	-1	29			299	
5.5	-1	31			319	
5.6	-1	32			330	
Tinley & Adams Canyon						
5.7	-1	34			350	
5.8	-1	20			206	
5.9	-1	22			227	
6.0	-1	32			330	
6.1	+1	6			62	
6.2	+1	2			21	
Nogales - Patagonia - Duquesne rd ring						
6.3	-1	24			247	
6.4	-1	34			350	
6.5	-1	33			340	
6.6	-1	26			268	
By Kansas Mine 6.55						
6.7	-1	51			525	

ORIGINAL COPR. 19 J. C. PARKER

POS	RANGE	READ	TIME	TR. MA. REG.	US. PAT. OFF
6.8	+1	15	15:00	155	
6.9	-1	15		155	
7.0	+1	6		62	
7.1		0		0	
7.2	-1	23		237	
7.3	-1	47		484	
7.4	+1	3		31	
7.5	-1	33		340	
7.6	-1	62		639	
7.7	+1	10		103	
Crest of Mountain - Cattle Guard & Fence					
7.8	+1	15		155	
7.9	+1	40		412	
8.0	+1	16		165	
8.1	+1	3		31	
8.2	+1	8		82	
8.3	-1	32		330	
8.4	+1	10		103	
8.5	+1	6		62	
8.6	-1	7		72	
8.7	-1	1		10	
8.8	-1	15		155	
8.9	-1	16		165	
9.0		0	15:28	0	
9.1	-1	30		309	
9.2	-1	18		185	
Repeat					
6.2	+1	3	15:48	31	
				26	X

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ORIGINAL COPR. 19 & C. PARKER

LEFAX LADELPHIA 7, PA DE IN U.S.A.

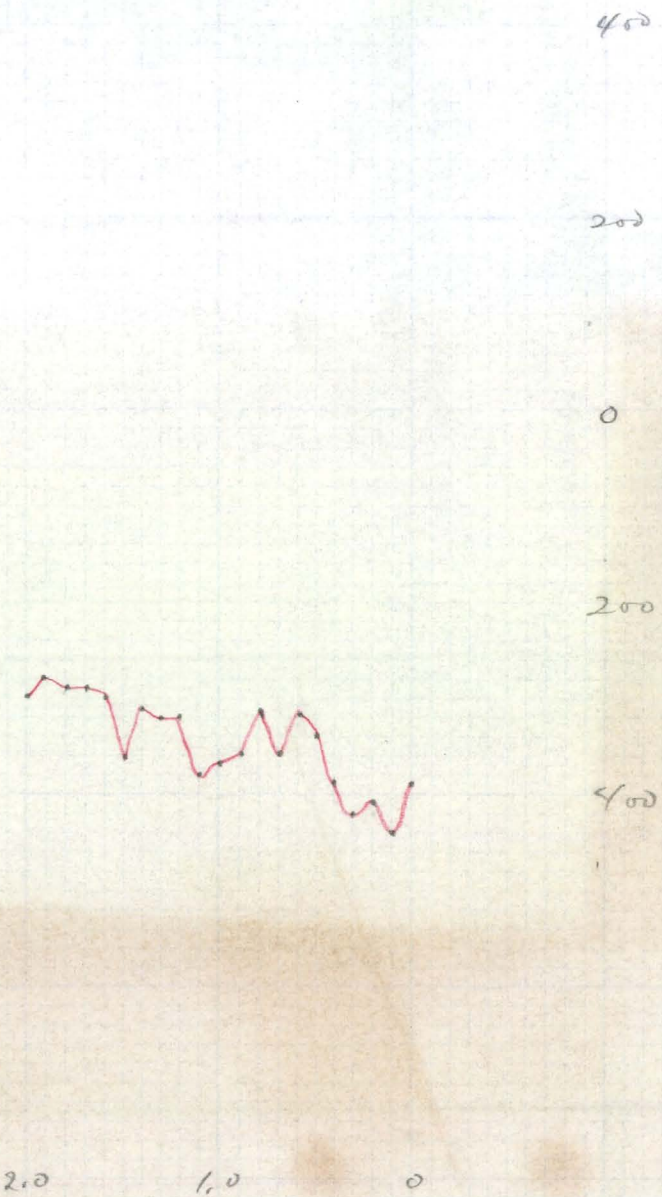
TR. REG. US. PAT. OFF

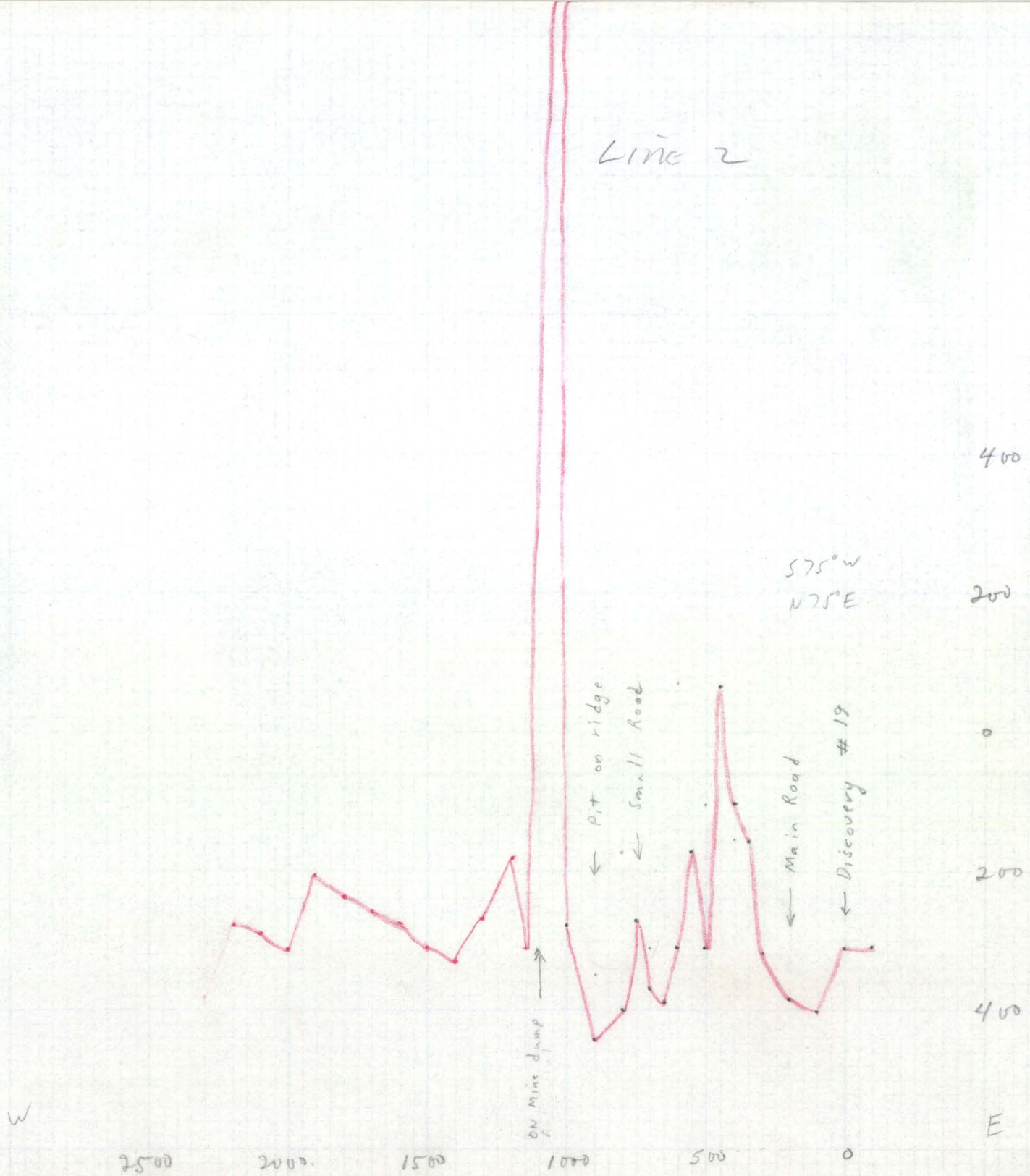
7

POS	RNGE	READ	TIME			
BEGIN #2 ROAD TRAV.						
0.0 = Base			16:30			
	-1	38			391	
0.1	-1	43			443	
0.2	-1	40			412	
0.3	-1	41			422	
0.4	-1	38			391	
0.5	-1	33			340	
0.6	-1	31			319	
0.65 is trench Mine cut off						
0.7	-1	35			361	
0.8	-1	30			309	
← ADIT & overhead pipe line						
0.9	-1	35			361	
1.0	-1	30			371	
WASH (SMALL) CROSSING ROAD						
Rd 1.1	-1	37			381	
Flux Canyon Rd.						
1.2	-1	31			319	
1.3	-1	31			319	
1.4	-1	30			309	
1.5	-1	35			361	
1.6	-1	29			299	
1.7	-1	28			288	
1.8	-1	28			288	
1.85 road to Harshaw						
1.9	-1	27			278	
2.0	-1	29			299	
Base	0.0	Repeat		-1	31	21
					319	

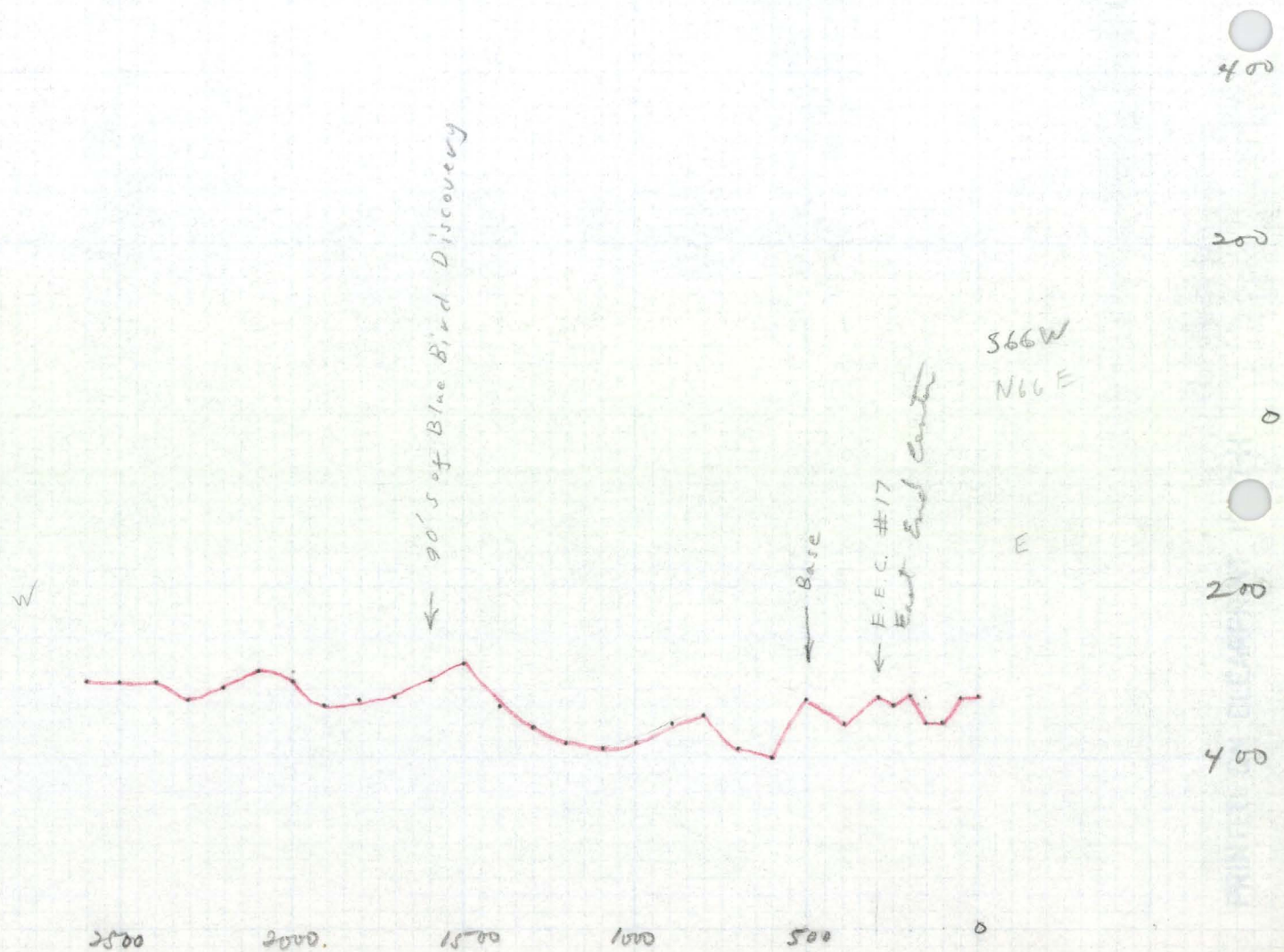
1" = 1 mile

Line 4 on Rd.
Rd. Trav. No. 2




Line 2
S75°W
N75°E
Pit on ridge
Small Road
Main Road
Discovery #19
ON Mine dump
400
200
0
200
400
W
E
2500
2000
1500
1000
500
0

Line 1

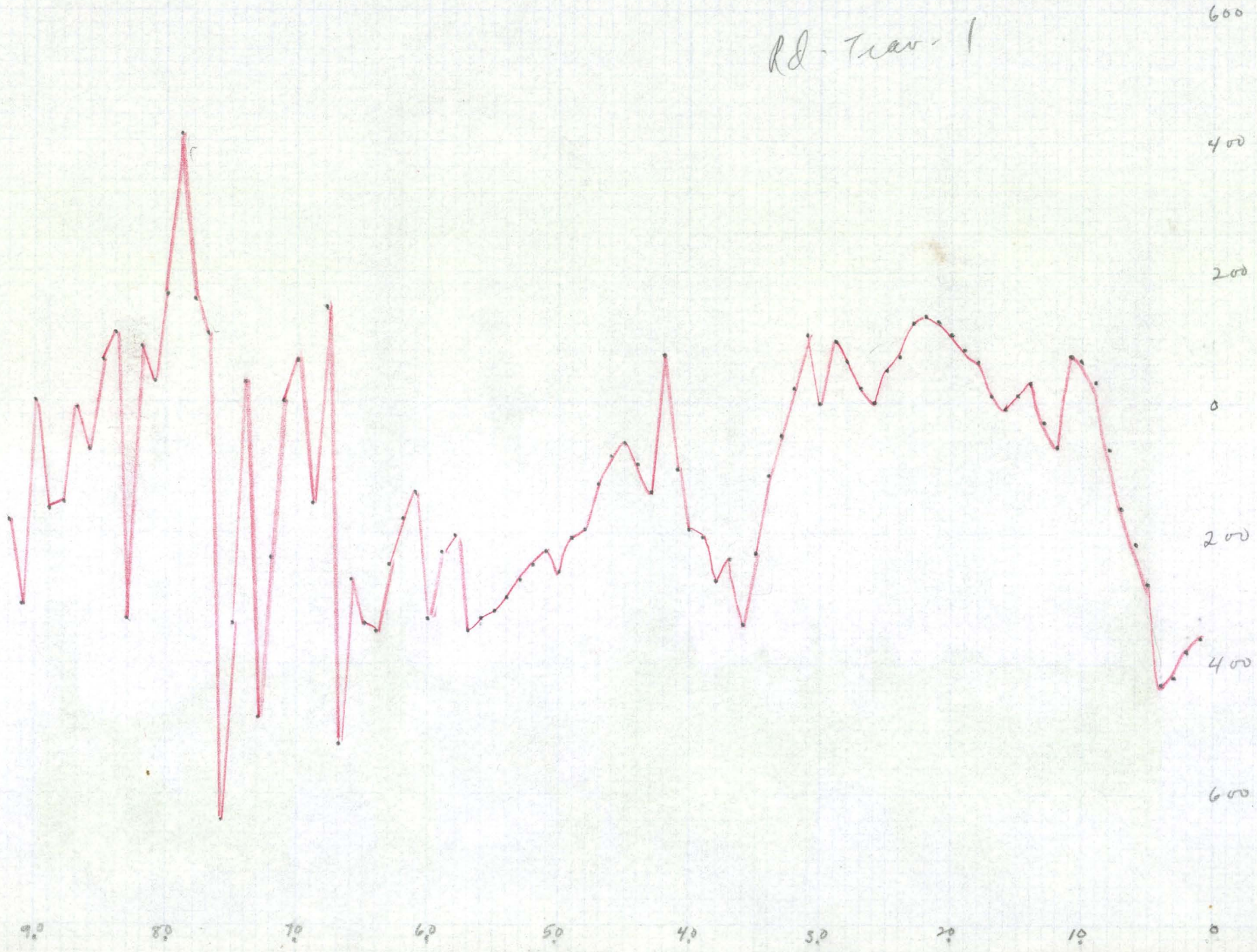


W
E
90's of Blue Bird Discovery
Base
E.E.C. #17
East End Center
S66W
N66E
400
200
0
200
400
2500
2000.
1500
1000
500
0

1" = 1 mile

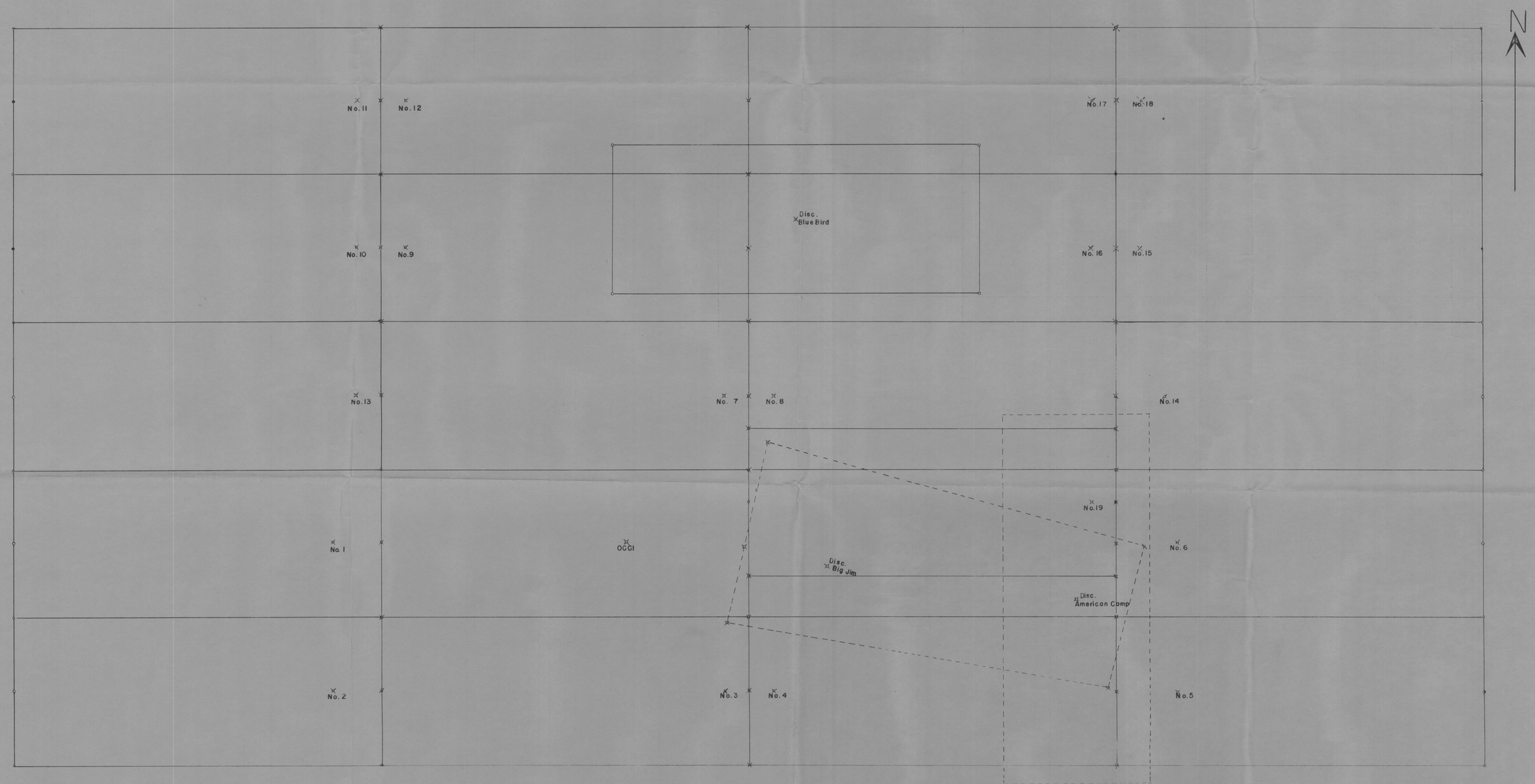
Line 3, on Road

Rd. Trav. 1



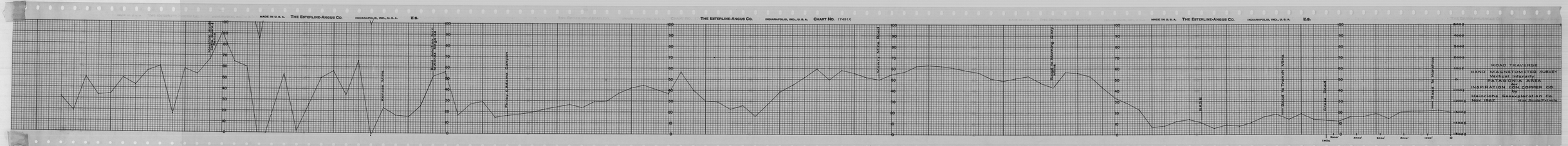
Line 1 shows only 110 gammas total relief. However, the Blue Bird structure may be indicated as a high zone between stations 1200 and 1800W. There is no definite association of the magnetic data to mineralization.

Line 2, neglecting the reading at 1100W which is probably artificial, has about 520 gammas total relief. There is an anomaly at 450W of about 500 gammas that appears to be caused by a steeply dipping vein or dike-like near-surface structure with a moderate magnetite association. The area near the large mine dump even neglecting the artificial effects is anomalous (200 gammas) to some extent.



OCCI CLAIM GROUP
Harshaw Mining District
Santa Cruz Cnty Arizona
1" = 200' Nov. 14, 1961

OCCI CLAIM GROUP
Harshaw Mining District
Santa Cruz Cnty Arizona
1" = 200' Nov. 14, 1961



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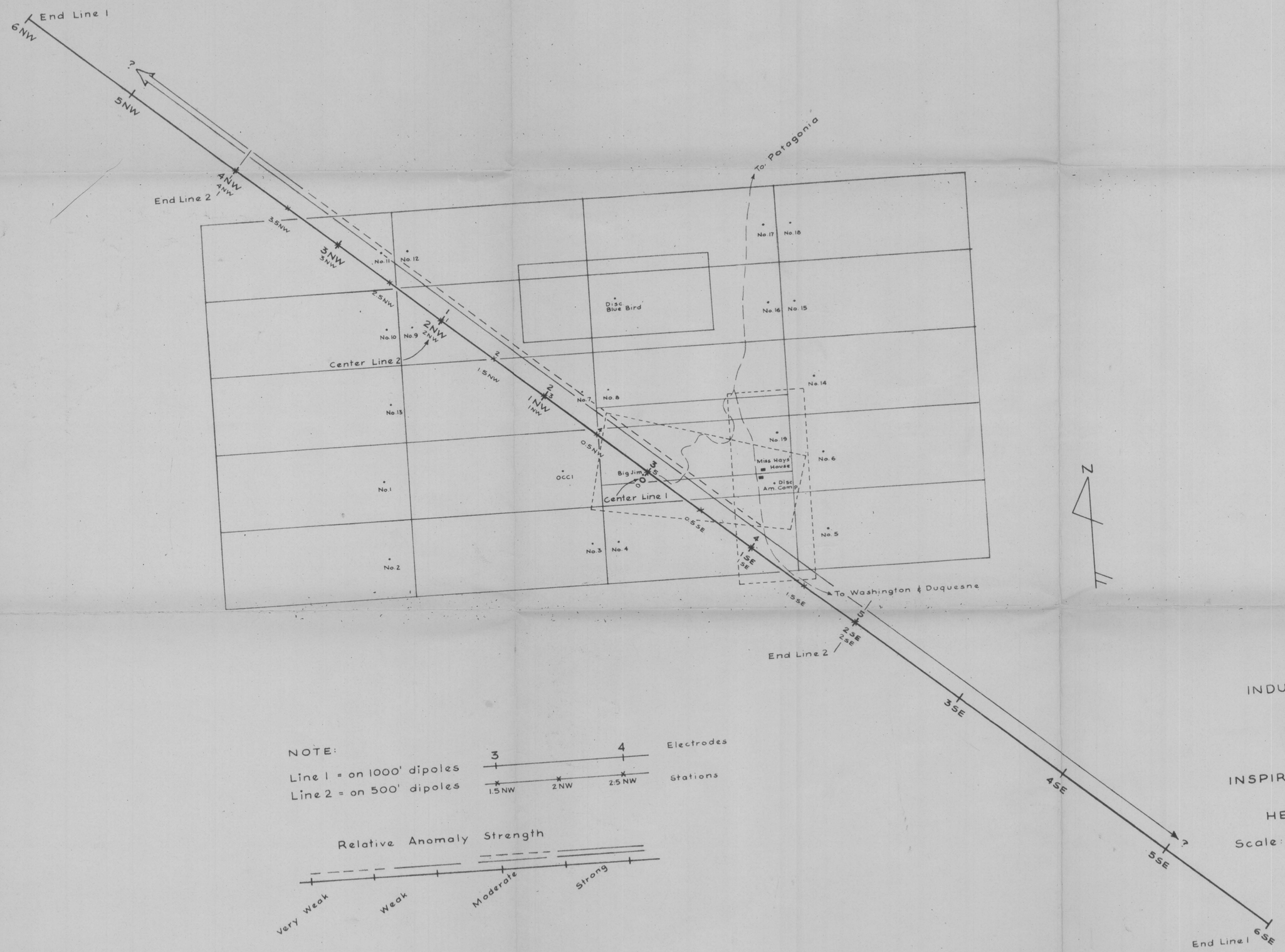
THE ESTERLINE-ANGUS CO. INDIANAPOLIS, IND., U.S.A. CHART NO. 17491X
MADE IN U.S.A. THE ESTERLINE-ANGUS CO. INDIANAPOLIS, IND., U.S.A. E.S.
Mawrin Gorge Creek Bridge
Kansas Mine
Road Junction Two Wounds Negro
Finlay & Adams Canyon
Mawrin Mine Road
Road to Morning Story Mine
BASE
Road to Trench Mine
Cross Road
Road to Hartshaw
ROAD TRAVERSE
HAND MAGNETOMETER SURVEY
Vertical Intensity
PATAGONIA AREA
for
INSPIRATION CON. COPPER CO.
by
Heinrichs Geoexploration Co.
Nov. 1967
New Scale Vertical



INDUCED POLARIZATION SURVEY

OCCI CLAIM GROUP
Harshaw Mining District
Santa Cruz County, Arizona
for

INSPIRATION CONSOLIDATED COPPER CO.
by
HEINRICHS GEOEXPLORATION CO.

Aug. 1964

Scale: 1" = 500'

NOTE:

Line 1 = on 1000' dipoles
Line 2 = on 500' dipoles

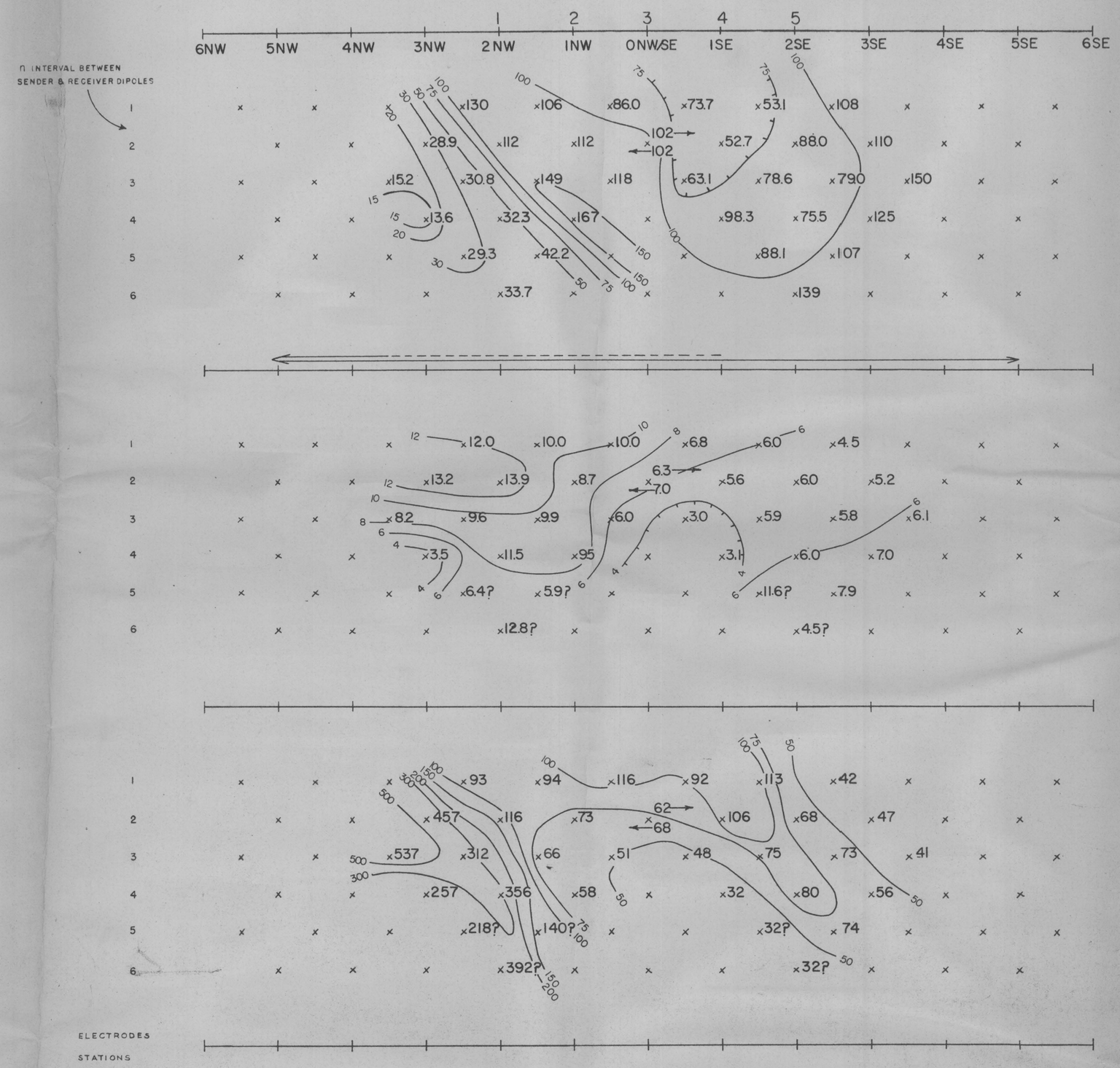
3 4 Electrodes
1.5NW 2NW 2.5NW Stations

Relative Anomaly Strength

Very Weak — Weak — Moderate — Strong

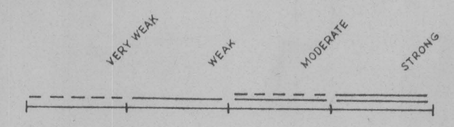
• LOCATION MONUMENT

Insp.
Occi

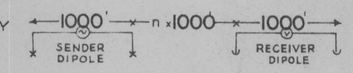


SELF POTENTIAL
SURFACE PROFILE
GEOLOGY, ETC.

RELATIVE ANOMALY STRENGTH



ELECTRODE ARRAY



OCCI CLAIM GROUP
PATAGONIA,
SANTA CRUZ COUNTY,
ARIZONA

SECTIONAL DATA SHEET

LINE No. 1

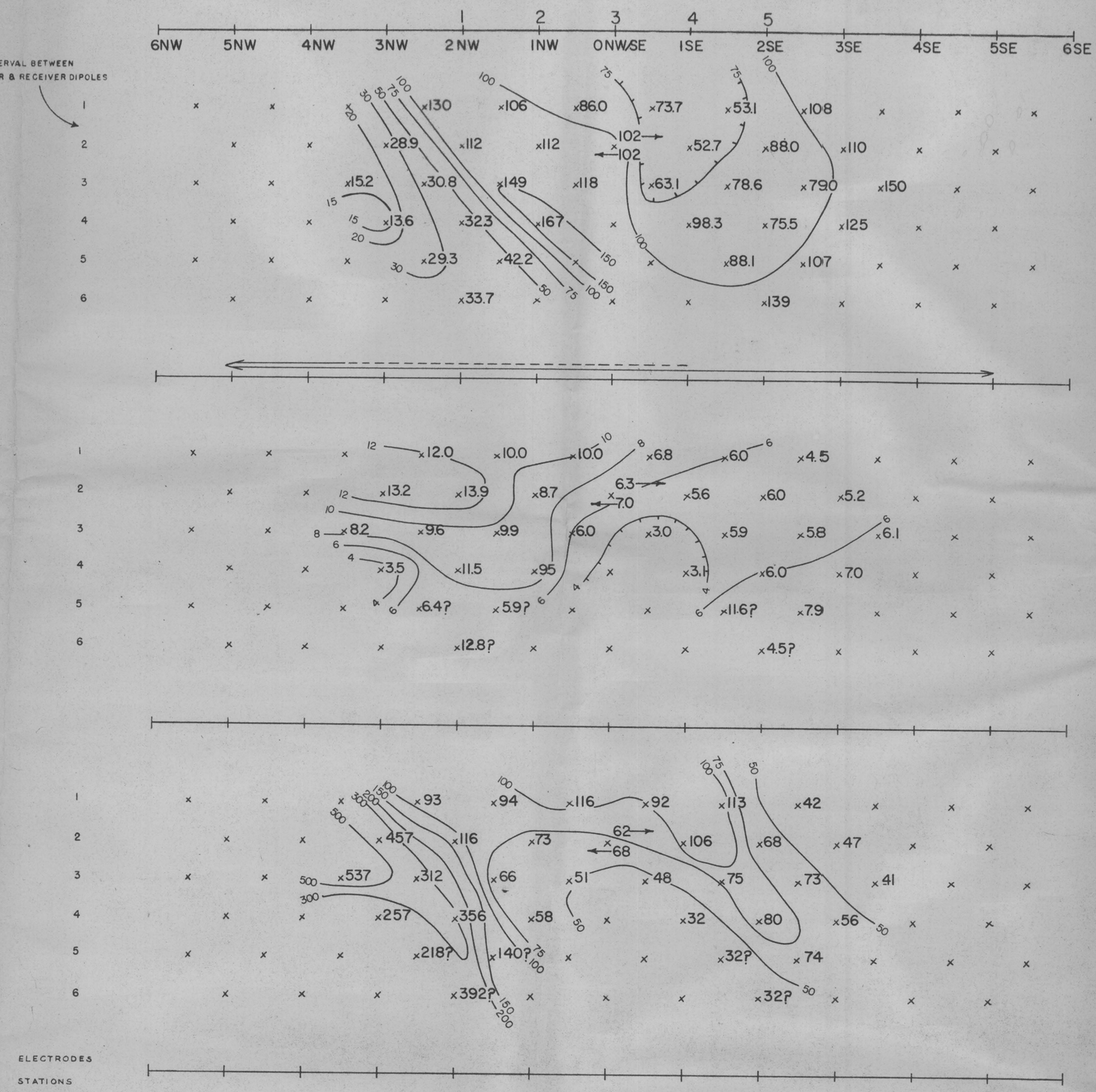
INDUCED POLARIZATION TRAVERSE

HEINRICHS GEOEXPLORATION COMPANY

SCALE: 1" = 1000' DATE: AUG. 1964

FOR

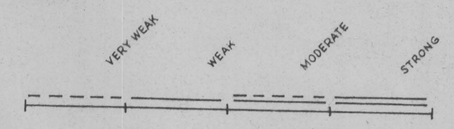
INSPIRATION CON. COPPER CO.



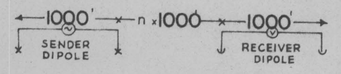
LOOKING NORTHEASTERLY

SELF POTENTIAL
SURFACE PROFILE
GEOLOGY, ETC.

RELATIVE ANOMALY STRENGTH



ELECTRODE ARRAY



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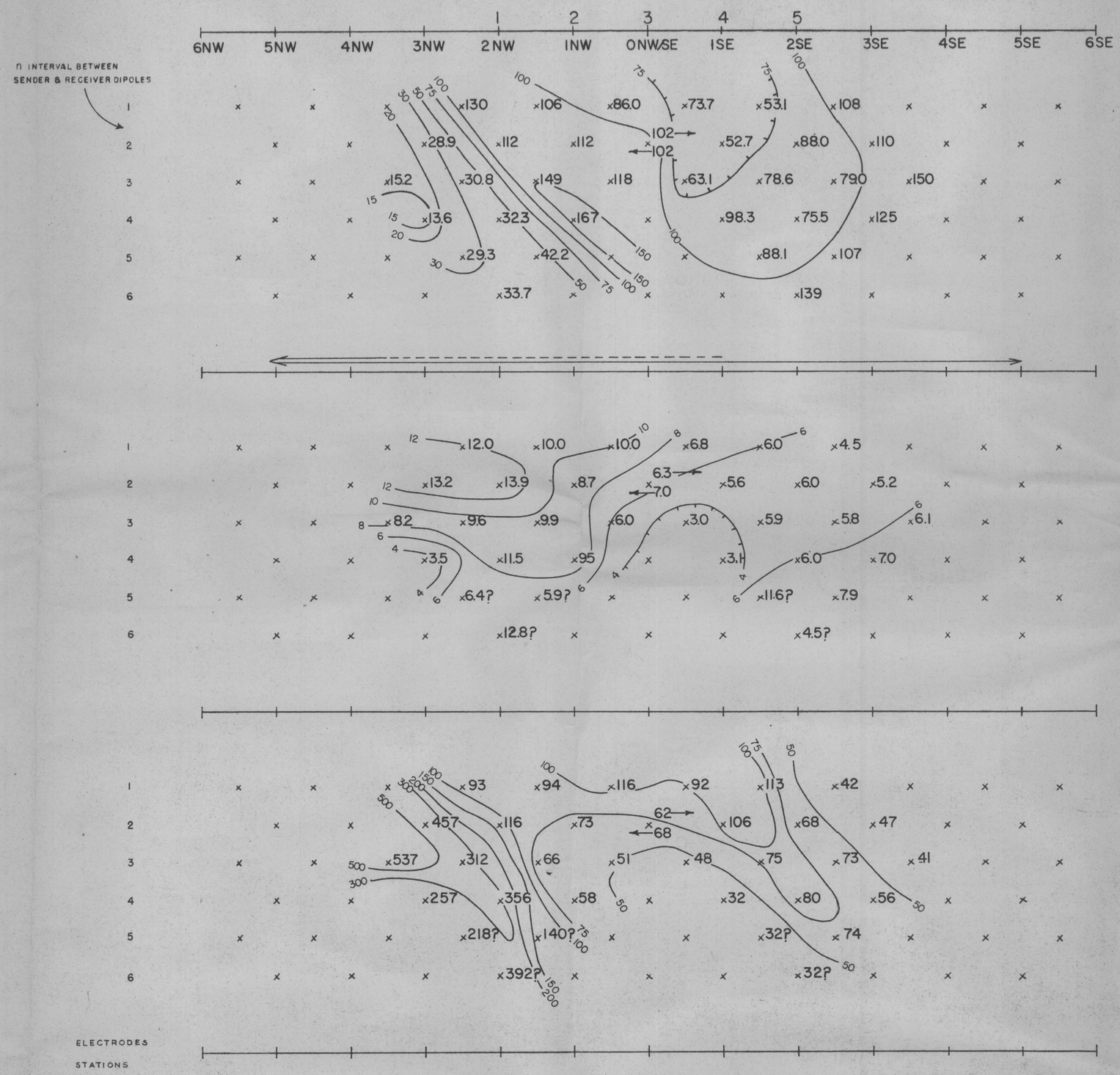

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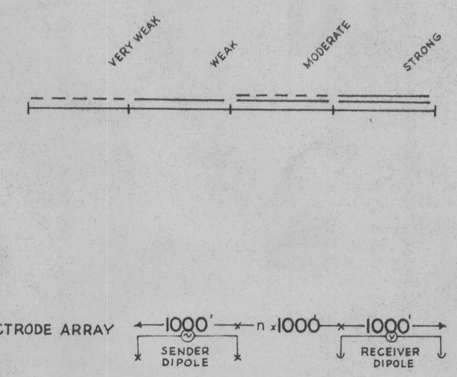
RELATIVE ANOMALY STRENGTH



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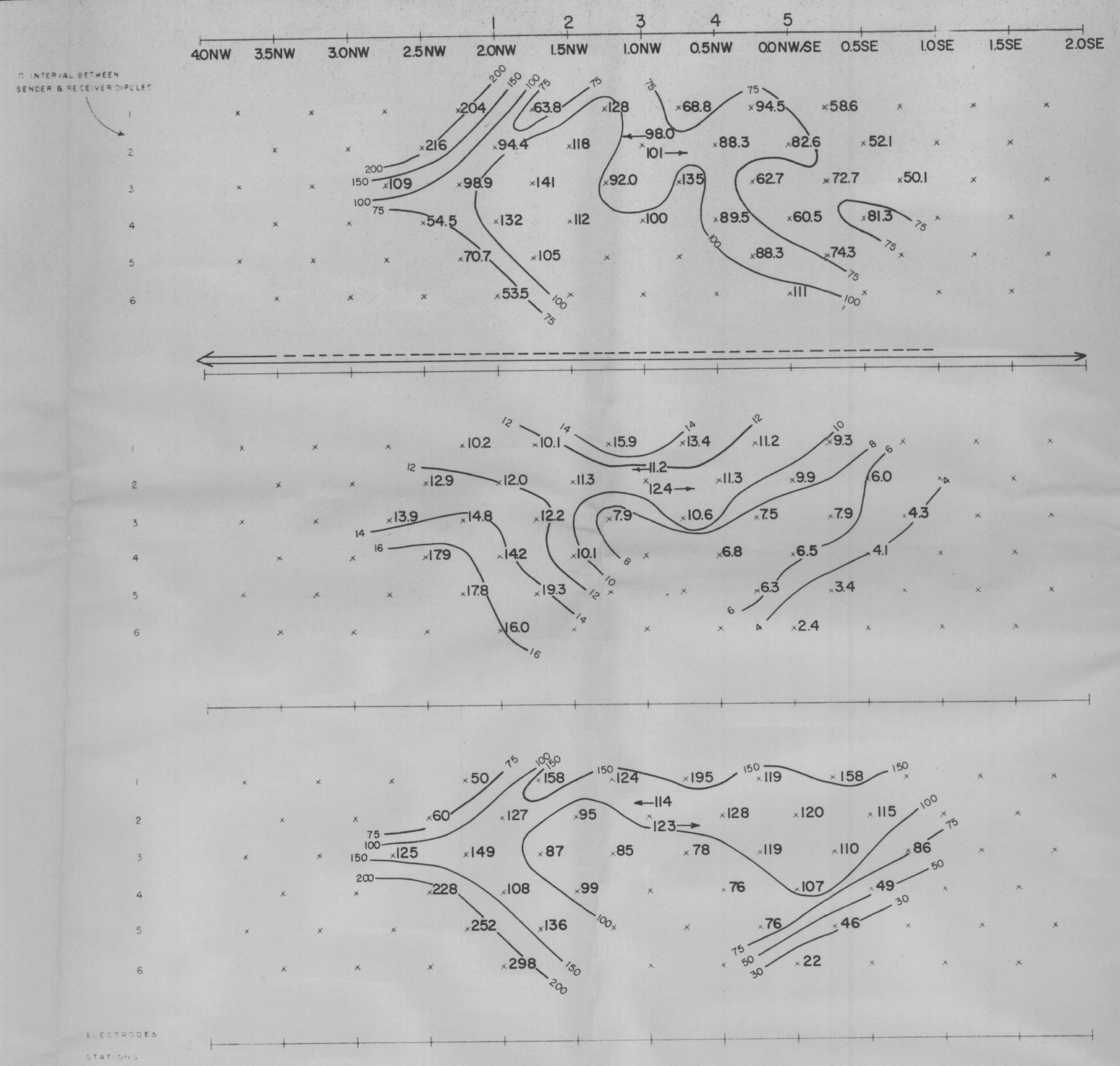

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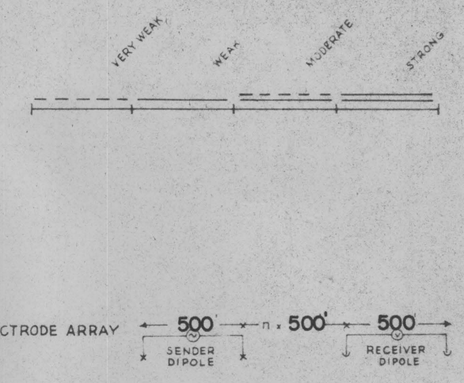

OCCI CLAIM GROUP
PATAGONIA,
SANTA CRUZ COUNTY,
ARIZONA

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SCALE: 1" = 500' DATE: AUG. 1964

FOR

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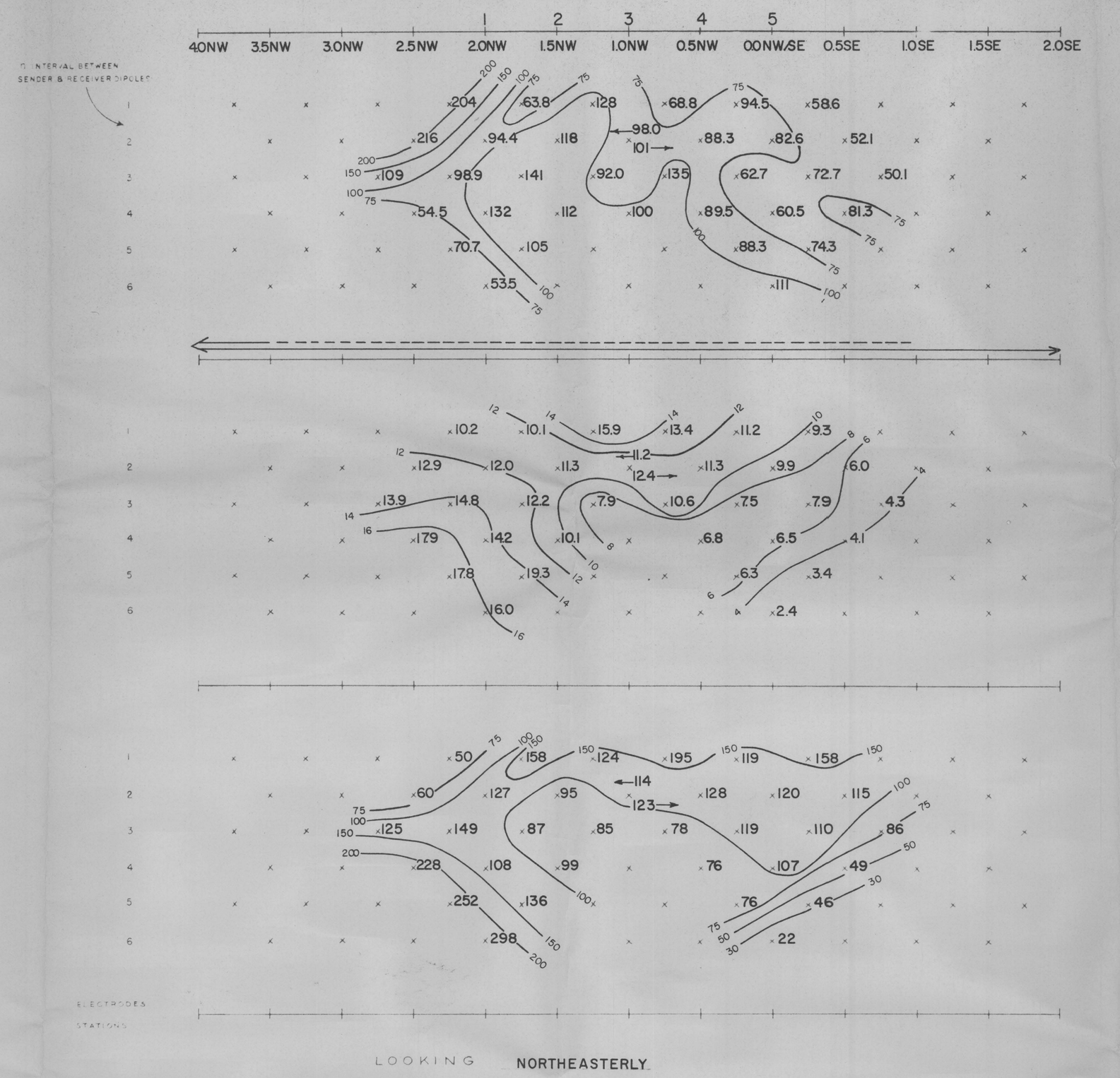
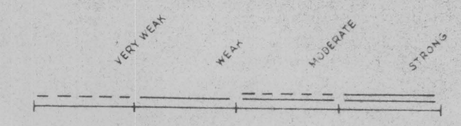
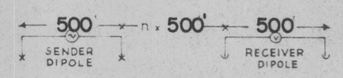


SELF POTENTIAL
SURFACE PROFILE
GEOLOGY, ETC.

RELATIVE ANOMALY STRENGTH



ELECTRODE ARRAY



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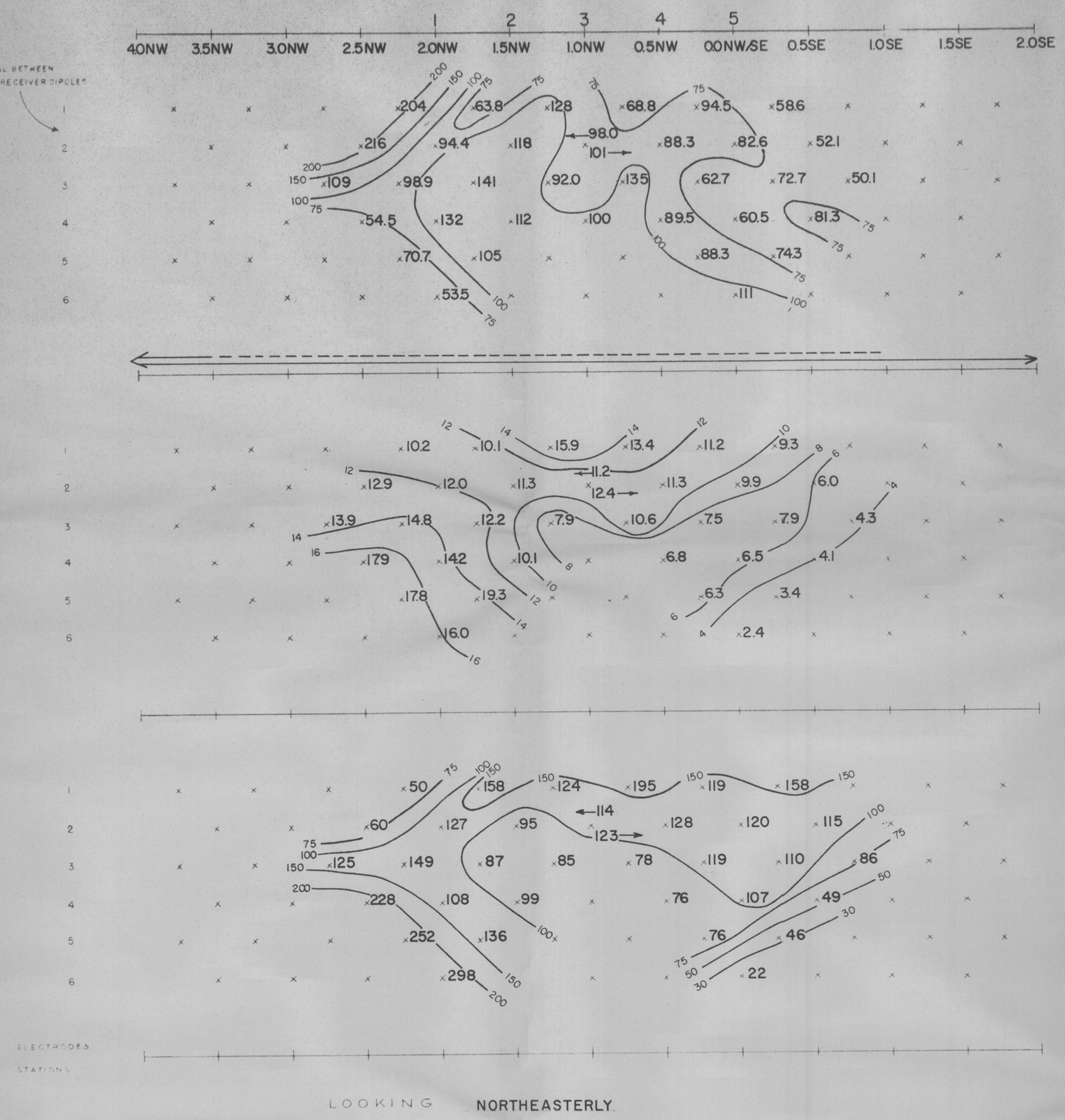

RELATIVE ANOMALY STRENGTH

VERY WEAK WEAK MODERATE STRONG

ELECTRODE ARRAY 500' n × 500' 500'
SENDER DIPOLE RECEIVER DIPOLE

SELF POTENTIAL
SURFACE PROFILE
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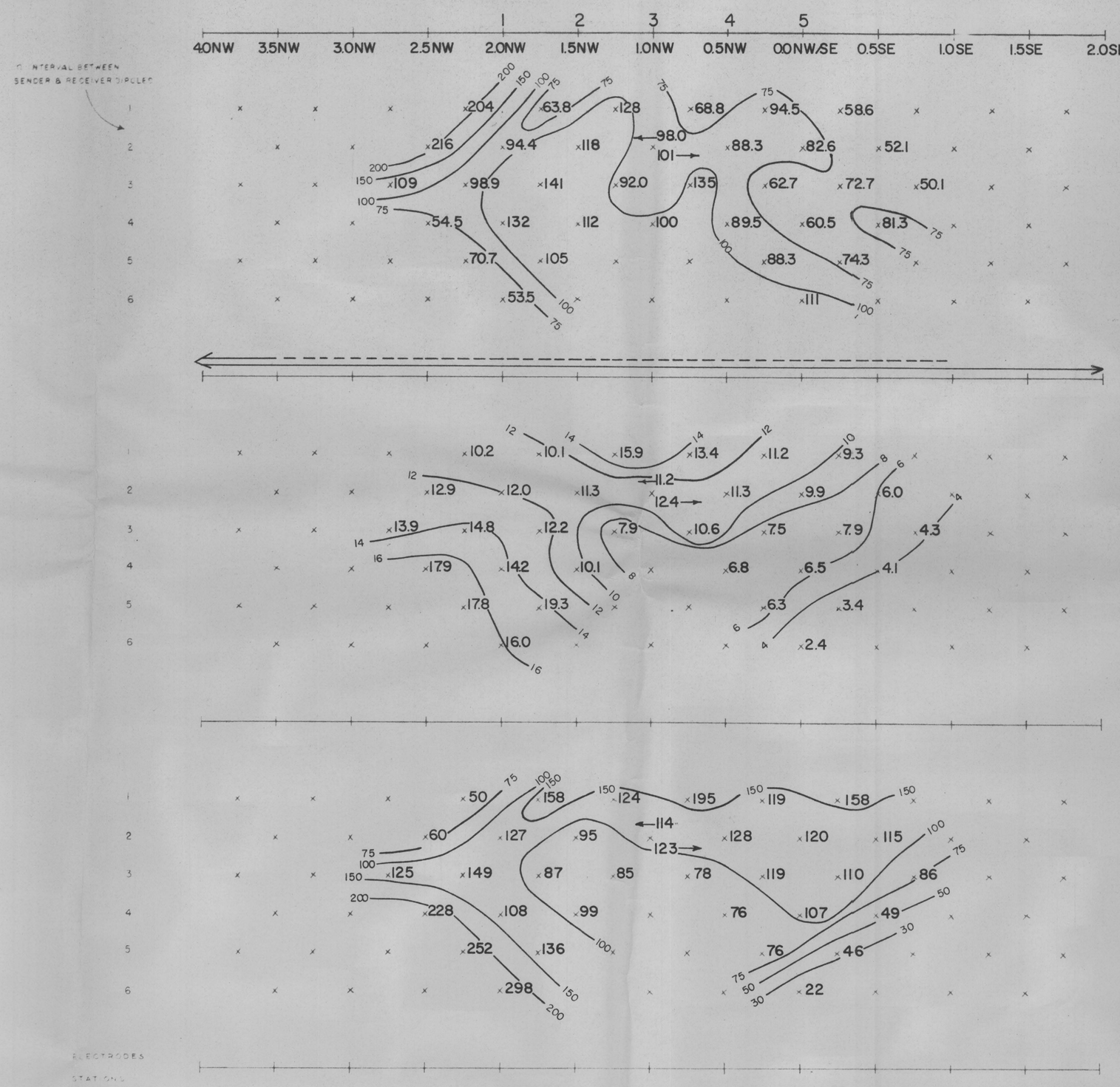

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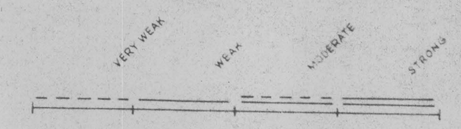

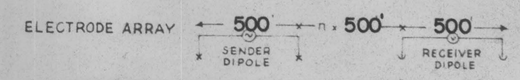

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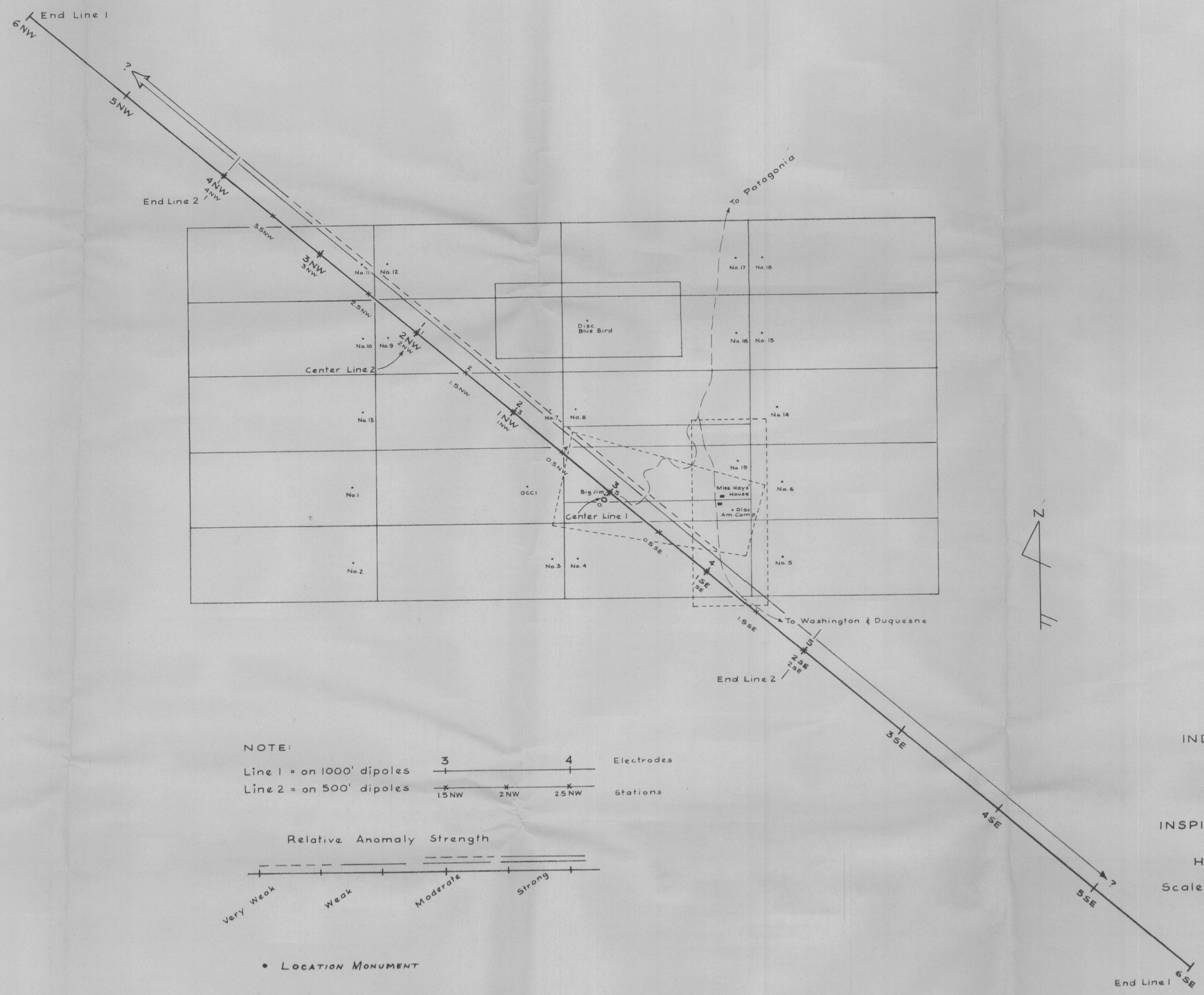

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Very Weak — Weak — Moderate — Strong

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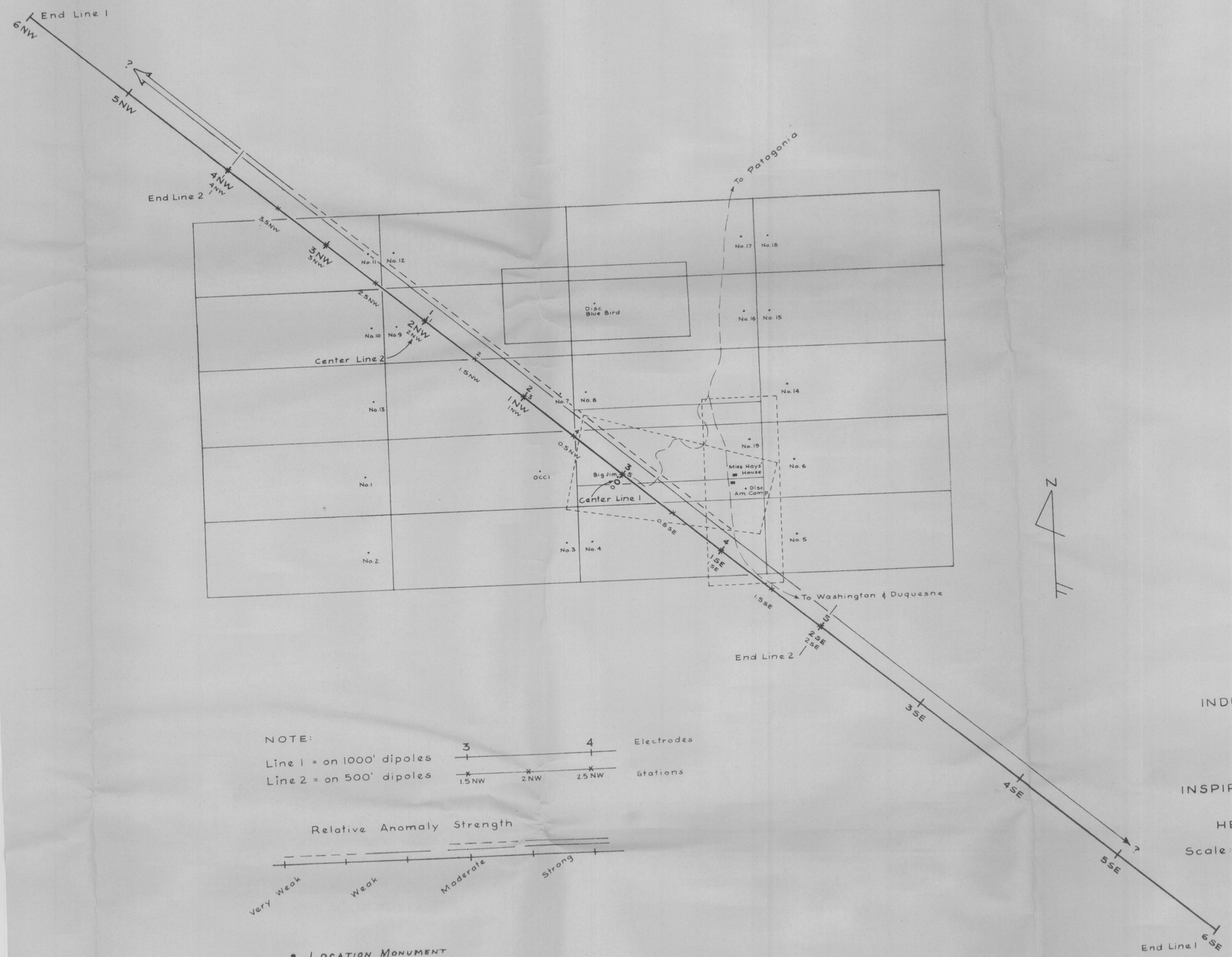

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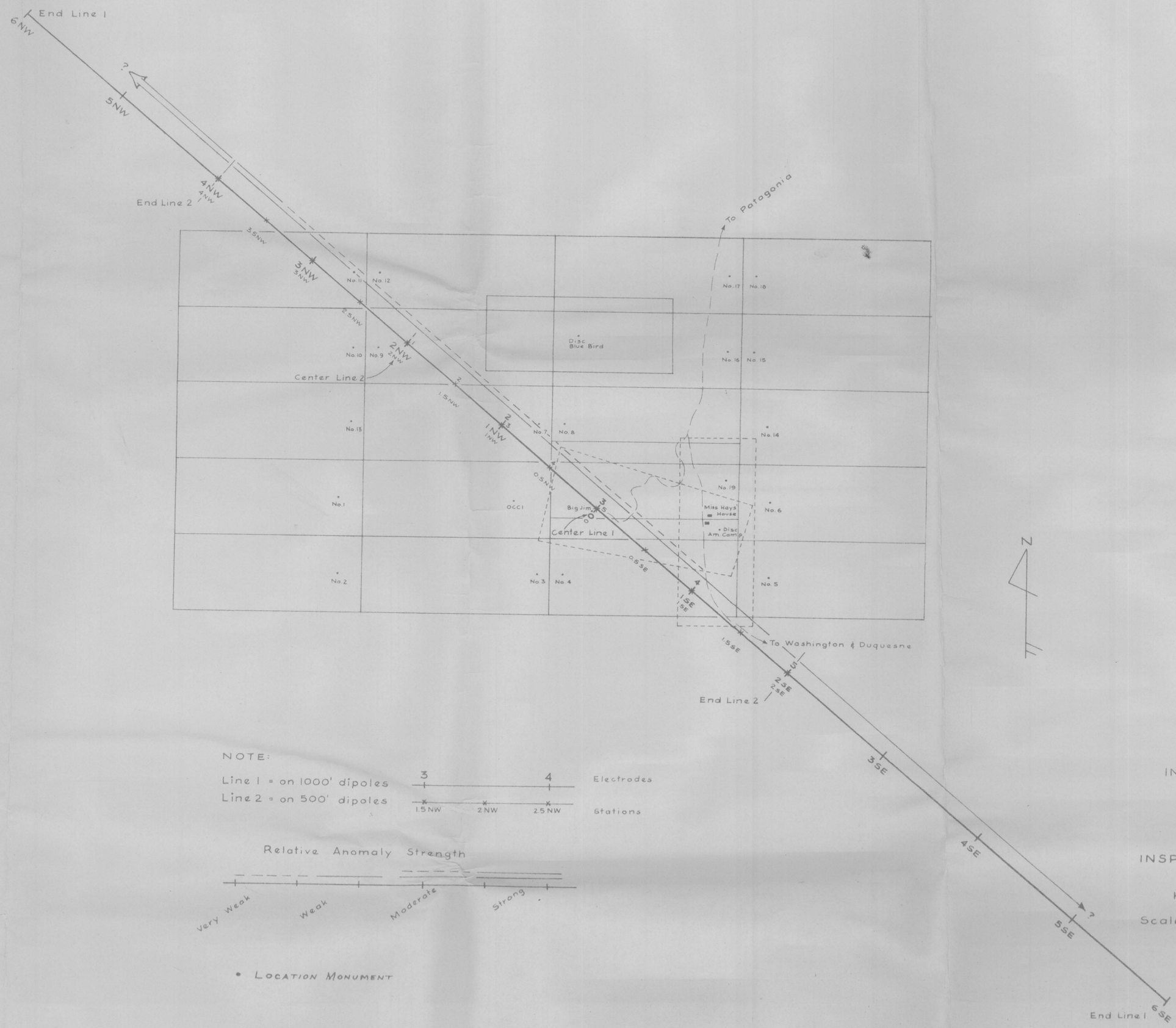

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MADE IN U.S.A. THE ESTERLINE-ANGUS CO. INDIANAPOLIS, IND., U.S.A. E.S.
THE ESTERLINE-ANGUS CO. INDIANAPOLIS, IND., U.S.A. CHART NO. 17491X
Mountain divide Cattle Guard & Fence
Kansas Mine
Road Junction turn towards Nogales
Finley & Adams Canyon
Mowry Mine Road
Road to Morning Glory Mine
BASE
Road to Trench Mine
Cross Road
Road to Harshaw
200γ
100γ
0
-100γ
-200γ
-300γ
-400γ
ROAD TRAVERSE
HAND MAGNETOMETER SURVEY
Vertical Intensity
PATAGONIA AREA
for
INSPIRATION CON. COPPER CO.
by
Heinrichs Geoexploration Co.
Nov. 1962
Hor. Scale: 5" = 1 mile