5430 0187

Plate 4

AMERICAN SMELTING AND REFINING COMPANY
SOUTHWESTERN EXPLORATION DEPARTMENT - RENO OFFICE
P. O. BOX 7637, RENO, NEVADA 89502

Kim

I.P. AND RESISTIVITY SURVEY
GEM PROJECT, VENUS CLAIM GROUP
LYON COUNTY, NEVADA

By

Richard Van Blaricom

December 29, 1970

assessment work.)

Mr. Palosky outlined the following lease agreement to me, however, Mr. Tucker will handle the actual drafting of the option agreement:

first year -	$ 10,000.00	on signing option
	$ 1,000.00	land payment on Colegrove lease due January 1972
second year -	$ 20,000.00	lease payment
	$ 3,000.00	land payment on Colegrove lease
third year -	$ 20,000.00	lease payment
	$150,000.00	purchase payment on Colegrove lease (Palosky feels we could buy the Colegrove property for $ 25,000.00 within the next year.)
fourth year -	$ 20,000.00	lease payment
fifth year -	$ 20,000.00	lease payment

After the fifth year we must either purchase the property for two million dollars or extend the lease for a yearly payment of $ 50,000.00.

Recent Work - Venus and Colegrove Property

The most recent and only data readily available on the property was conducted by Richard Van Blaricom of the American Smelting and Refining Company. The report is dated December 29, 1970 and is included.

The following work appears to have been carried out;

1. seven I P lines were run for an approximation of 28 line miles on the Venus and Colegrove. (see appendix for profiles and Figure 1 for line location.)

2. Aeromagnetic map (see appendix)

3. I P Anomaly map (see appendix) Contours of I P reponse N = 1 and N = 2 (see appendix) included in Blaricom's interpretation of the I P results.

4. Resistivity contours N = 1 and N = 2 (see appendix)

5. Reconnaissance Geologic Mapping (see appendix)

6. Three rotary holes were drilled

Gem 1 1653'

Gem 2 1625'

Gem 3 2062'

See Figure 1 for location of Gem 1 and 3. The location of Gem 2 is unknown. See appendix for drill logs and assay reports.

Observations

The Venus and Colegrove properties are contiguous with and lie directly south of the two reported U. S. Steel ore bodies. Verbal reports indicate that the main and well defined ore zone (Figure 1) has been blocked out and appears to be contained within the U. S. Steel claim block. The eastern ore zone however is still in the process of being drilled out. I have attempted to delineate the trend and extent of the U. S. Steel's drilling program. Observed within this trend on the southern portion were 8 Longyear 44 (?) core rigs. Verbal communications with a driller indicated that an iron-copper zone was being intersected between 1000 feet and 4,200 feet. He also mentioned that the average hole depth was about 2,500 feet. The driller also stated that "the project geologist thought that an ore body of economic grade from 250 to 600 million tons existed along this trend."

The property appears to lie on the western margin, in the pediment, of a horst-graben structure, that trend about parallel to the projected trend of U. S. Steel's drilling program. Outcrops exist on the property, however, alluvium appears to be more prevalent.

Rocks observed in the field include tactite containing specular hemitite, pyrite and copper oxides, fresh, intrusive granodiorite and quartz monzonite and propyliticly altered metasediments.

Recommendations

1. Mr. Palosky should be contacted as soon as possible to determine exactly what kind of work commitment he wants and what option terms he would agree to.

2. Mr. Stolz of Parnasse should review the geophysical data and give recommendations.

Conclusions and Recommended Exploration Program

1. The property lies within the highly mineralised Yerington District and especially it lies directly adjacent to the U. S. Steel ore body.

2. Projection of present drilling by U. S. Steel indicates that their ore body may project into the property.

3. All known drilling on the property has been peripheral to the projected target zone.

4. The target zone lies on a NE trending aeromagnetic high. (see A S and R data) This high roughly is parallel to the present U. S. Steel drilling program.

5. The target zone lies on an I P anomaly of a low order. This data however should be substantiated by Mr. Stolz.

Recent Work Rainy Claims

The following data is included on the Rainy claims:

1. Data on 3 I P lines
2. General geologic map
3. Aeromagnetic map
4. Two drill holes

The above work was done by the American Smelting and Refining Company in 1970.

Conclusions

Only about one hour was spent on this property and at the present time the true merit of the property is not known. However, the following observations were made:

1. A moderately altered (weak argillic) quartz diorite was observed on the claims. Minor limonite after pyrite was associated with this alteration.
2. ASARCO's aeromagnetic map shows a magnetic high on the property.
3. A small I P anomaly is also located on the property.
4. Drill holes Gem 4 and 5 (Plate 2) show little significant mineralization.

Recommendations

The Rainy claims hold little interest to Parnasse at this time. This property should not be included in the main Venus claim block.

Appendix

Plate 1	Location Map with I P lines and drill hole locations
Plate 2	Drill logs Gem 1, 2, 3, 4, 5
Plate 3	Drill hole assays Gem 1, 2, 3, 4, 5
Plate 4	I P report A.S.and R, Blaricom, 1970
Plates 5 - 13	I P profiles
Plate 14	Outline of Venus claims
Plate 15	Aeromagnetic map
Plate 16	I P anomaly map
Plate 17	Contours of I P response N = 1
Plate 18	Contours of I P response N = 2
Plate 19	Contours of resistivity N = 1
Plate 20	Contours of resistivity N = 2
Plate 21	General geologic map
Plate 22	Claims map 1" = 1000'
Plates 23 - 26	I P profile
Plate 27	Rainy claim block
Plate 28	Aeromagnetic map
Plate 29	Contoured I P response
Plate 30	Contoured resistivity

AMERICAN SMELTING AND REFINING COMPANY
SOUTHWESTERN EXPLORATION DEPARTMENT - RENO OFFICE
P. O. BOX 7637, RENO, NEVADA 89502

December 29, 1970

MEMORANDUM TO: [redacted]

I.P. AND RESISTIVITY SURVEY
GEM PROJECT, VENUS CLAIM GROUP
LYON COUNTY, NEVADA

INTRODUCTION

During the month of May an I.P. and resistivity survey was run over the GEM Project (Venus claim group). This was a joint venture with General Earth Minerals (GEM) to explore GEM's holdings. The area is to the immediate south of the U. S. Steel ore bodies, about five miles from the town of Yerington.

GENERAL LAND STATUS

The claim block consists of 462 unpatented lode mining claims, owned by General Earth Minerals. Subsequent to our survey the claim block was purchased by Continental Dynamics Corporation of Las Vegas. This is enough to negate all ASARCO interests.

GENERAL GEOLOGY

The geology is presented on Plate 13B. The alluvium to the east near drill hole, GEM 3, is more than 1500 feet thick; at this point bedrock consists of Tertiary rhyolite tuffs.

DRILLING RESULTS

The drilling results (as reported by Mr. G. Stathis) are presented in Appendix A. Pre-ASARCO drill holes are reported on the Geology Map (Plate 13B).

BACKGROUND GEOPHYSICAL INFORMATION

ASARCO flew aeromagnetics over this area (Aeromagnetics of Yerington Area, Sept. 1970) Plate 13C. The most prominent feature is the magnetic high (1960 gamma) associated with the U. S. Steel magnetite-chalcopyrite ore body. The low on the western part of the GEM group is due to deep alluvium. There is a high magnetic ridge trending N 20° W on the eastern edge of the property. The magnetic high is due to a ridge of volcanic material. The low just to the west of this high magnetic ridge is due to a down dropped block covered with thick alluvium.

The comparison of the Magnetic Map (Plate 13C), with the Resistivity Map (Plate 11), is of interest. The high resistivity corresponds closely with the high magnetics. The two would give an idea as to the thickness of alluvial cover. The I.P. Anomaly Map (Plate 1) indicates the I.P. high is peripheral to the magnetic high. There is a N 45° W trend in the I.P. anomaly and there is some suggestion that this is associated with the N 45° W trending magnetic high in sections 23, 25, and 36.

Previous to this I.P. survey several other I.P. surveys were run. Utah Construction ran I.P. as well as Geo-Comp. Exploration for GEM. These surveys picked up the anomaly but Geo-Comp.'s data did not delineate the anomaly. This left several areas open for extensions of the anomaly.

ASARCO survey was run using a dipole-dipole electrode configuration with an "a" spacing of 1000, 2000, and 4000 feet. The equipment used was rented scintrex. The transmitter (1 PC-7-10 KW) proved to be superior in current output to any of ASARCO's equipment. The resistivity is plotted in ohm-feet and the I.P. values both in milliseconds and MV/V. Mr. Dick Fazzio, from the Salt Lake office, assisted in running the survey.

SUMMARY AND RECOMMENDATIONS

Summary

One definite I.P. anomaly was detected on the western part of the claim group (See Map Overlay Plate 8). The depth to the polarizer was estimated to be 600 feet.

Previous drilling had been done in the anomalous area; shallow drilling close to these old holes would not be of much value. Therefore, two holes were drilled on the peripheral of the anomaly (GEM 1 & 2). The drilling intersected pyrite around 800 feet but little copper was found in any holes.

There is a low intensity I.P. anomaly to the east but this is probably due to clays. The resistivity is quite low in this area.

Recommendations

The I.P. anomaly to the west has definite sulfide significance. This anomaly was discussed with Messrs. Kurtz, Stathis, and Saegart prior to ASARCO's drilling. GEM 1 & 2 were drilled on the peripheral of the I.P. anomaly. GEM 3 was drilled to test the hypothesis of a deep extension from the U. S. Steel "ore body" being present.

The results from all the drilling indicate the area is of little interest to ASARCO.

RESULTS

Line 4N, 2000' "a" (Plate 1)

I.P. The I.P. shows an increase in value to the east.

Resistivity. The resistivity is low, indicating deep alluvial cover to the west.

Line 3N, 2000' "a" (Plate 2)

I.P. The I.P. is low but increases with depth.

Resistivity. The resistivity is low but increases with depth, possibly indicating the top of a higher resistivity rock unit at depth.

Line 0, 2000' and 1000' "a" (Plates 3 and 3A)

I.P. There is a well defined I.P. anomaly from 4 East to 10 East. This is a shallow body as the N1 data is larger than N2 data. The 1000' "a" data has an anomaly from 6 East to 8 East, and its depth with respect to the "a" spacing as N = 1 is lower than N = 2. The probable depth to the top of this is around 600 feet.

Resistivity. The resistivity indicates a low zone to the east and west. This is probably due to alluvial fill. The high resistivity zone is flanked by a medium resistivity zone, and the medium resistivity zone on the west is the one that is mineralized.

Line 2S, 2000' and 1000' "a" (Plates 4 and 4A)

I.P. There is a definite I.P. anomaly from 6 East to 8 East. This is of less magnitude than the anomaly found on line zero; the polarizer is probably somewhat deeper at this point.

Resistivity. The I.P. anomaly is associated with the medium resistivity zone on the western flank of the resistivity high.

Line 4S, 2000' and 4000' "a" (Plate 5)

I.P. The anomaly is narrow and deeper at this point. The values would still be considered anomalous.

Resistivity. The I.P. anomaly is on the western flank of an extremely high resistivity zone.

Line 6S, 2000' and 1000' "a" (Plate 6)

I.P. There is a low amplitude anomaly from 12 East to 13 East. This is probably a continuation of the anomaly found on the other lines. There is another anomaly near station 22 East, but this is probably due to clay (low resistivity).

Resistivity. The anomaly near station 12 East is probably due to sulfides as the resistivity is around 100 ohm-feet. The anomaly to the east (station 22 East) is also associated with a low resistivity zone.

Line 8S, 2000' "a" (Plate 7)

I.P. There is a definite high on the east but this is not considered relevant as the resistivity is low.

Resistivity. The resistivity is quite low along most of the line. This could indicate deep alluvial fill. The low resistivity invalidates the I.P. anomaly to the east.

MAPS

The enclosed maps indicate the anomalies and the contoured data in map form. There is an obvious anomaly. This is terminated on the west by a low resistivity zone. There is some possibility that the anomaly is buried on the western edge, and extends under cover.

Richard Van Blaricom

RICHARD VAN BLARICOM

RVB:jd

Encls.

cc: W. E. Saegart
C. K. Moss
R. J. Lacy

TABLE OF CONTENTS

	Page
INTRODUCTION	1
GENERAL LAND STATUS	1
GENERAL GEOLOGY	1
DRILLING RESULTS	1
BACKGROUND GEOPHYSICAL INFORMATION	2
SUMMARY AND RECOMMENDATIONS	2
RESULTS	3
MAPS	4
APPENDIX A	

Plate 2

APPENDIX A

DRILL HOLE GEM-1

Footage Interval	Rock Description
0 - 8	Alluvium
8 - 360	Fresh granodiorite porphyry.
360 - 380	Fresh granodiorite porphyry. Trace pyrite ?
380 - 750	Fresh granodiorite porphyry.
750 - 780	Granodiorite porphyry and gouge material. Trace pyrite.
780 - 800	Granodiorite porphyry and gouge material. Also metavolcanic (andesite) and meta sedimentary (quartzite and silicified limestone ?) fragments. Trace pyrite ?
800 - 830	Metavolcanic (andesite) ? and quartz vein fragments. Rock strongly fractured and oxidized locally. 1 - 2% plus fresh pyrite.
830 - 870	Granodiorite porphyry (95% of cuttings by volume) and metavolcanic ? material. 1% plus disseminated pyrite.
870 - 1030	Fresh granodiorite porphyry. Trace pyrite locally.
1030 - 1060	Fresh granodiorite porphyry. 1% plus pyrite.
1060 - 1080	Mostly granodiorite porphyry. Meta sediments 5% by volume for interval 1070 - 1080 feet. 2 - 3% plus pyrite.
1080 - 1150	Meta sedimentary rock as silicified limestone and quartzite. 1 - 3% plus pyrite.
1150 - 1160	(CORE RUN) Core recovered showed marble at 1150' - 1154' with 1 - 3% pyrite and quartz monzonite with 2 - 5% pyrite at 1154' - 1160'.
1160 - 1180	Quartz monzonite, chloritized. 2% plus pyrite.
1180 - 1240	Carbonaceous limestone and silty limestone. 2 - 3% plus pyrite.
1240 - 1250	Carbonaceous limestone and quartz monzonite. 1 - 2% plus pyrite.
1250 - 1258	(CORE RUN) Carbonaceous limestone. 2 - 3% plus pyrite. Mostly as veinlets. Some calcite veinlets.
1258 - 1320	Carbonaceous limestone and silicified meta sedimentary or volcanic fragments. 2 - 4% plus pyrite.

APPENDIX A

DRILL HOLE GEM-1 - Continued

Footage Interval	Rock Description
1320 - 1350	Mostly carbonaceous limestone. 1 - 2% pyrite.
1350 - 1360	Mostly silicified meta sedimentary or metavolcanic rock. 2% plus pyrite.
1360 - 1380	Mostly carbonaceous limestone. 3% plus pyrite.
1380 - 1410	Mostly silicified limestone or meta-volcanic rock. 1 - 2% pyrite.
1410 - 1437	Carbonaceous limestone. 1% plus pyrite.
1437 - 1439	(CORE RUN) Carbonaceous limestone. 1 - 2% pyrite along fracture seams. 1/8" - 3/8" wide. Calcite veining locally.
1439 - 1550	Carbonaceous limestone. 1% plus pyrite.
1550 - 1580	Silicified meta sedimentary or meta-volcanic rock. 1% plus pyrite.
1580 - 1601	Silicified meta sedimentary or meta-volcanic rock. 2 - 3% plus pyrite.
1601 - 1608	(CORE RUN) Fault breccia. Limy gouge.
1608 - 1651	Silicified meta sedimentary or meta-volcanic rock. 2% plus pyrite.
1651 - 1653	(CORE RUN) Silicified metavolcanic rock with 2% disseminated pyrite.

APPENDIX A

DRILL HOLE GEM-2

Footage Interval	Rock Description
0 - 50	Alluvium
50 - 1620	Drill cuttings show mostly Tertiary, quartz-rich, crystal welded tuff material. Cuttings suspected to be heavily contaminated with recirculated welded tuff material carried in the drill mud. First sulfide (pyrite) noted in interval 770 - 780 feet. Pyrite noted here and in subsequent depth occurs as very fine disseminations in quartz phenocrysts and matrix of welded tuff. At the 1410 - 1420 foot interval, quartz monzonite fragments make up 10%, by volume, of the drill cuttings.
1620 - 1625	(CORE RUN) 1 1/2 feet of core recovered of which 1' 9" consisted of monolithic, limestone breccia with 1% disseminated pyrite and 3" consisted of silicified limestone with 3% disseminated pyrite.

NOTE ON GEM-2:

1. The change from post mineral (Tertiary) rock to pre mineral rock may have occurred at about 1300 foot depth. A moderate decrease in the drill penetration rate occurs at about this depth. However, the cuttings show no change in rock type. Conceivably, the change could have [redacted] occurred at the final core run interval of 1620 - 1625 feet.

2. Pyrite was noted in the following footage intervals: 770 - 820, 840 - 1060, 1070 - 1090, 1100 - 1110, 1120 - 1130, 1150 - 1160, 1210 - 1220, 1270 - 1290, 1310 - 1480, 1490 - 1625.

3. Greater than 1% by volume pyrite was noted in the following footage intervals: 900 - 910, 990 - 1030, 1040 - 1050, 1390 - 1400, 1430 - 1440, 1460 - 1470, 1570 - 1580, 1590 - 1625.

APPENDIX A

DRILL HOLE GEM-3

Footage Interval	Rock Description
0 - 2130	Gravel fragments noted in cuttings from entire depth of drill hole. Again strong contamination associated with the mud circulation. R. H. Luning (Sept. 3, 1970 ASARCO monthly project drill report) believes that the Tertiary bedrock was reached at 1850 foot depth.
2003 - 2013	(CORE RUN) Rock consists of Tertiary, devitrified, quartz-biotite crystal tuff.
2062 - 2062.3"	(CORE RUN) Same rock as previous core run.

DRILL HOLE GEM-4

Footage Interval	Rock Description
0 - 125	Granodiorite - silicified and oxidized. 1 - 2% leached pyrite.
125 - 180	Granodiorite - silicified, chloritized mafics. 3 - 4% partly tarnished pyrite.
180 - 190	Granodiorite - as above, 2 - 3% partly tarnished pyrite.
190 - 200	Granodiorite - as above, 0.5% fresh pyrite.
200 - 210	Granodiorite - as above, trace - 0.5% fresh pyrite.
210 - 230	Granodiorite - as above with some epidote. Trace fresh pyrite.
230 - 240	Granodiorite - as above, trace fresh pyrite.
240 - 300	Granodiorite - as above, trace - 0.5% fresh pyrite.

APPENDIX A

DRILL HOLE GEM-5

Footage Interval	Rock Description
0 - 82	Fresh, Tertiary crystal rhyolite tuff.
82 - 117	Tertiary rhyolite tuff and pre mineral meta andesite rock. The latter is silicified and oxidized.
117 - 140	Metavolcanic rock. Mixed oxide and primary zone. Trace pyrite.
140 - 150	Metavolcanic and granodiorite ? rock. Strongly silicified. Chlorite and epidote present. Trace - 0.5% fresh pyrite.
150 - 180	Metavolcanic rock. Silicified. Chlorite and epidote. Trace fresh pyrite.
180 - 200	Metavolcanic rock as above. No pyrite noted.
200 - 220	No recovery.
220 - 230	Metavolcanic rock. Silicified. Chlorite and epidote. Trace fresh pyrite.

NOTE ON ALL DRILL HOLES:

1. Holes 1, 2, and 3 were rotary drilled with mud.
2. Samples of the drill cuttings from holes 1 through 5 were collected mostly at 10 foot intervals and reexamined by the writer.
3. Sulfide (pyrite) content is estimated as volume percent of the cuttings.

APPENDIX A

Plate 3

DRILL HOLE ASSAYS

DRILL HOLE GEM-1

Depth (In Feet)	PPM Copper
1070	180
1080	210
1090	250
1100	110
1110	110
1120	165
1130	50
1140	145
1150	50
1160	15
1170	40
1180	75
1190	120
1200	65
1210	35
1220	45
1230	45
1240	50
1250	55
1250-1258 (core)	50
1270	60
1280	---
1290	80
1300	80
1310	85
1320	125
1330	50
1340	55
1350	85
1360	135
1370	145
1380	215
1390	460
1400	175
1410	145
1420	60
1430	30
1437	35
1437-1439 (core)	35
1450	35
1460	45
1470	50
1480	50
1490	75
1500	120
1510	55
1520	30
1530	35
1540	35
1550	55
1560	70
1570	100
1580	175
1590	30
1600	60
1610	---
1620	290
1630	215
1640	120
1650	145
1651-1653 (core)	130

APPENDIX A

DRILL HOLE ASSAYS - Continued

DRILL HOLE GEM-2

Depth (In Feet)	PPM Copper	Depth (In Feet)	PPM Copper
1300	-5	1460	-5
1310	-5	1470	-5
1320	--	1480	-5
1330	-5	1490	35
1340	--	1500	-5
1350	-5	1510	-5
1360	--	1520	-5
1370	-5	1530	-5
1380	5	1540	-5
1390	-5	1550	-5
1400	-5	1560	10
1410	-5	1570	-5
1420	-5	1580	-5
1430	-5	1590	-5
1440	-5	1600	-5
1450	-5	1610	-5
		1620	-5

DRILL HOLE GEM-3

Depth (In Feet)	PPM Copper	Depth (In Feet)	PPM Copper
2040	20	2090	20
2050	20	2100	20
2062	20	2110	25
2070	25	2120	25
2080	25	2130	30
		2140	35

DRILL HOLE GEM-4

Depth (In Feet)	PPM Copper	Depth (In Feet)	PPM Copper
10	55	150	90
20	50	160	100
30	65	170	60
40	90	180	50
50	60	190	55
60	55	200	35
70	50	210	25
80	55	220	20
90	60	230	35
100	90	240	70
110	110	250	80
120	105	260	50
130	115	270	35
140	235	280	40

APPENDIX A

DRILL HOLE ASSAYS - Continued

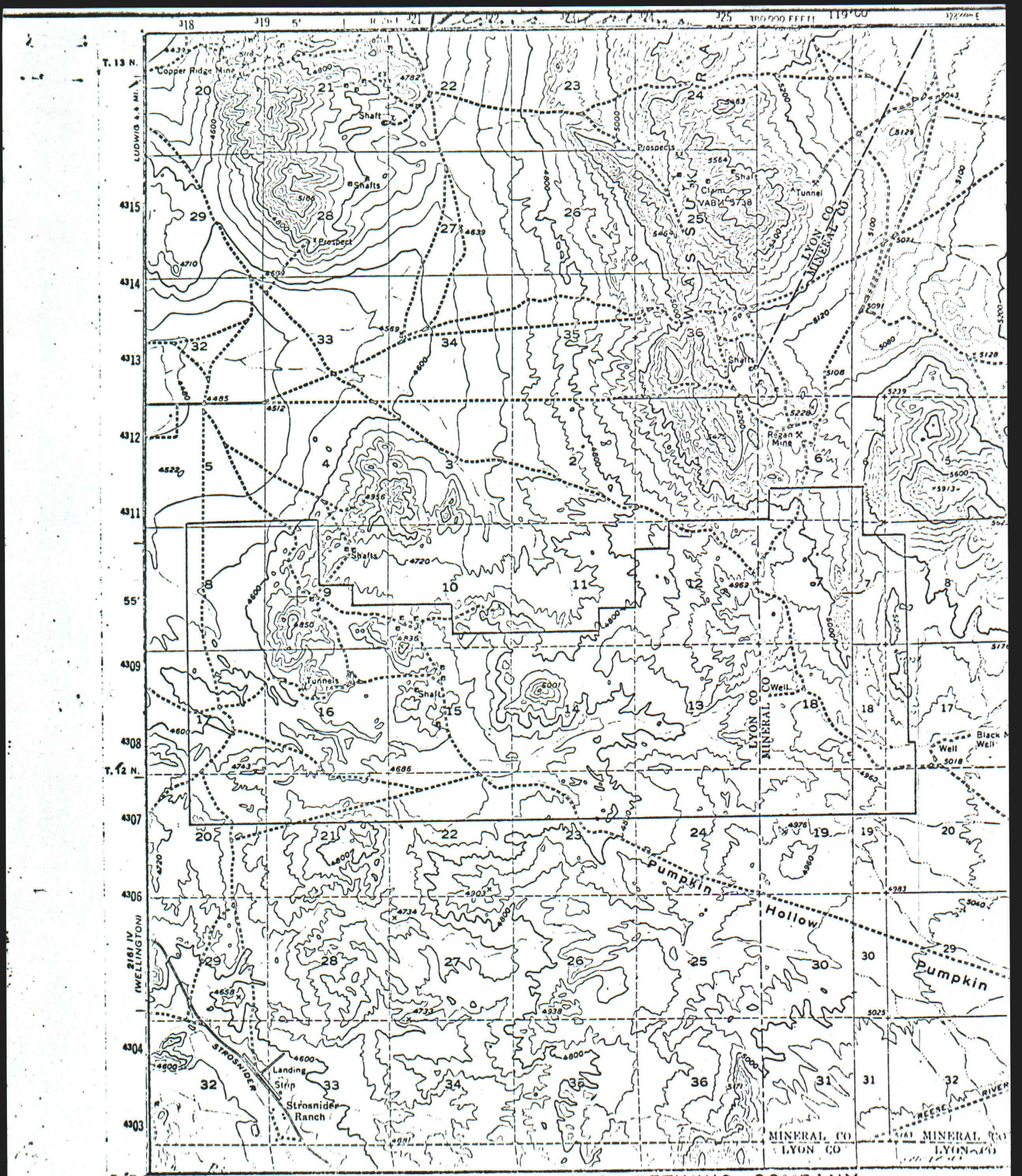
DRILL HOLE GEM-4A (Redrill)

Depth (In Feet)	PPM Copper	PPM Molybdenum	Depth (In Feet)	PPM Copper	PPM Molybdenum
10	150	-1	160	160	2
20	185	4	170	100	-1
30	60	5	180	85	1
40	100	-1	190	70	3
50	60	6	200	95	-1
60	65	4	210	100	4
70	75	6	220	40	5
80	65	-1	230	85	4
90	85	5	240	35	2
100	85	5	250	65	5
110	130	-1	260	40	6
120	90	1	270	40	4
130	260	-1	280	30	2
140	265	-1	290	50	4
150	215	-1	300	40	-1

DRILL HOLE GEM-5

Depth (In Feet)	PPM Copper	PPM Molybdenum	Depth (In Feet)	PPM Copper	PPM Molybdenum
90	20	-1	160	60	5
100	15	5	170	45	6
110	35	2	180	40	1
120	55	-1	190	50	2
130	55	4	200	35	2
140	40	1	210	---	--
150	85	2	220	---	--
			230	30	6

NOTE:
1. All samples collected and assayed, with three exceptions, were wet, rotary drill cuttings.
2. All assaying was done by Rocky Mountain Geochemical Corp. at Reno, Nevada using the atomic absorption method.
3. Samples submitted for copper assay from drill hole G-4 were also assayed for gold and silver. All samples ran less than 0.1 ppm gold and less than 1 ppm silver.
4. Drill hole GEM-4A was drilled 12 feet off of GEM hole 4.

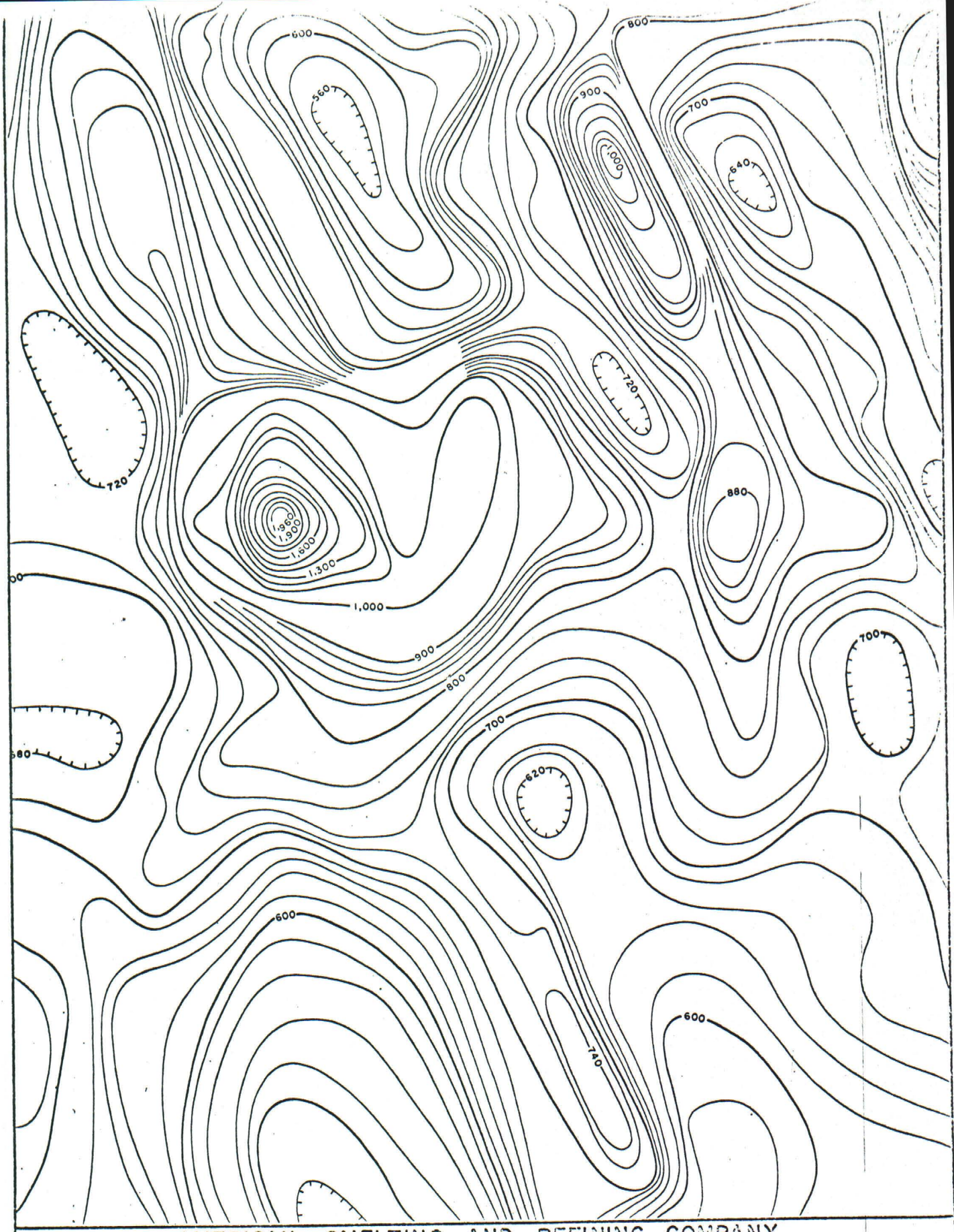


AMERICAN SMELTING AND REFINING COMPANY

area GEM PROJECT – YERINGTON QUAD	data by RVB	state NEVADA	township-range	revisions - date
		county LYON	map number	PLATE 14
title BASE MAP	drawn by RVB			
mining district YERINGTON	date AUG. 1979			

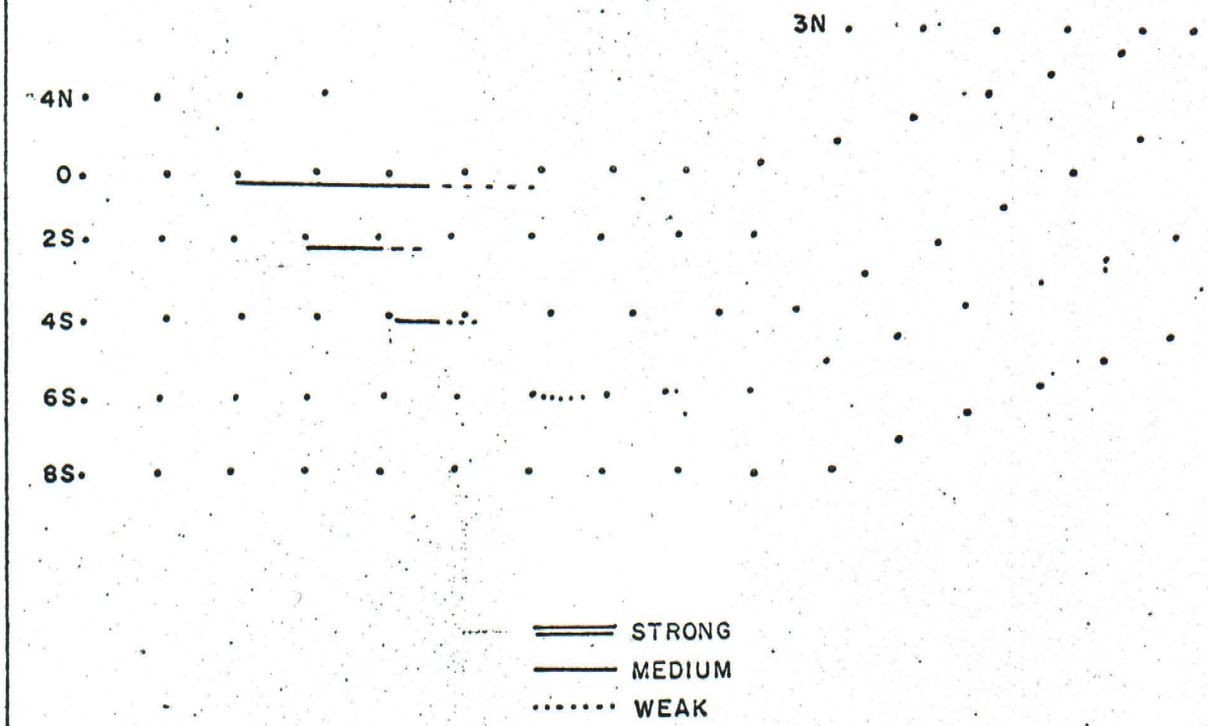
0 2 3

1" = 1 MILE



AMERICAN SMELTING AND REFINING COMPANY

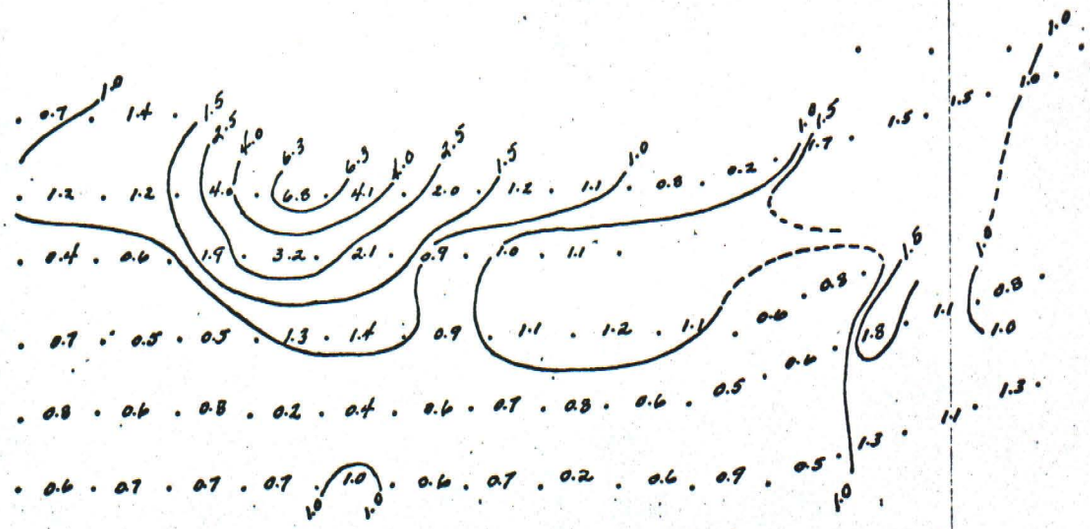
area GEM PROJECT – YERINGTON QUADRANGLE	data by RVB	state NEVADA	township-range	revisions - date
		county LYON	map number	PLATE EC 15
title AEROMAGNETIC MAP	drawn by LMH	0		2 MI.
mining district YERINGTON	date OCT. 1970			



AMERICAN SMELTING AND REFINING COMPANY

area: YERINGTON	data by: RVB	state: NEVADA	township-range	revisions - date
title: I. P. ANOMALY MAP	drawn by: RVB	county: LYON	map number	PLATE 8 16
mining district	date: JUNE 1970	0 1 2 3		

1" = 1 MILE



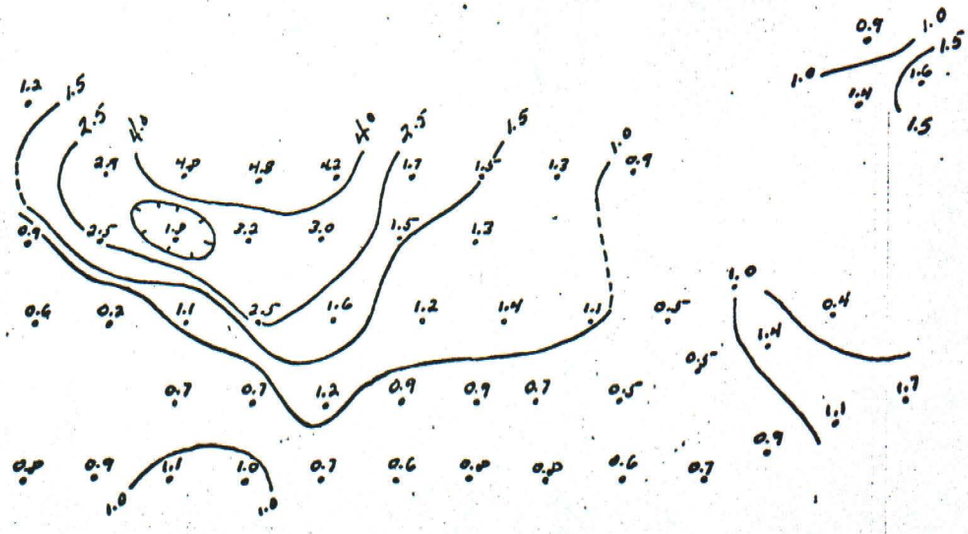
a = 2000'

N = 1

I. P. VALUES IN mV/V

AMERICAN SMELTING AND REFINING COMPANY

area: YERINGTON	data by: RVB	state: NEVADA	township-range	revisions - date
		county: LYON	map number	PLATE # 17
title: CONTOURS OF I.P. RESPONSE	drawn by: LMH	0 — 2mi.		
mining district	date: JUNE 1970			



a = 2000'

N = 2

I.P. VALUES IN mV/V

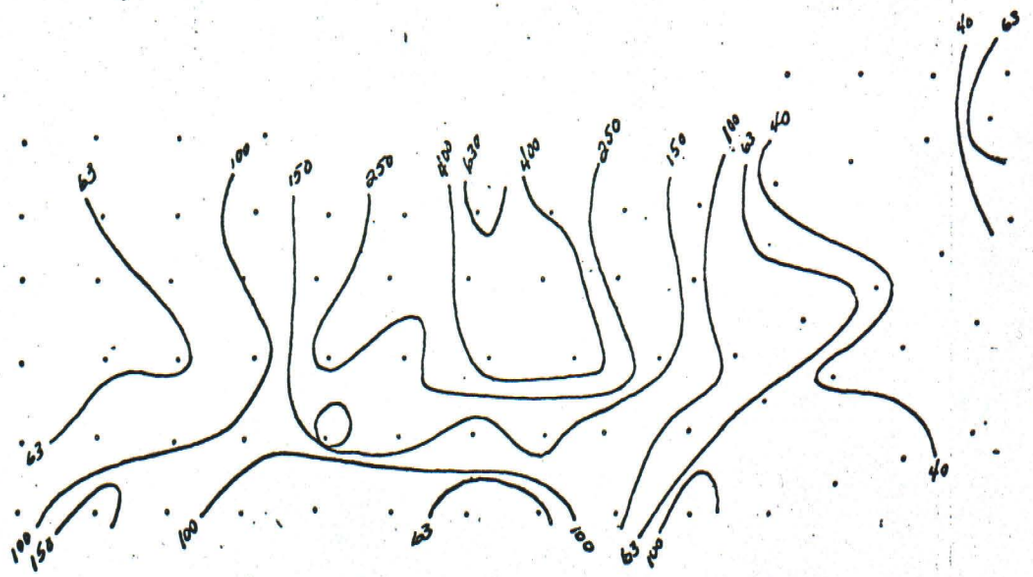
AMERICAN SMELTING AND REFINING COMPANY				
area: YERINGTON	data by: RVB	state: NEVADA	township-range	revisions - data
		county: LYON	map number	PLATE 18
title: CONTOURS OF I.P. RESPONSE	drawn by: LMH	1 0 1 2mi.		
mining district	date: JUNE 1970			

a = 2000'

N = 1'

RESISTIVITY VALUES IN OHM-FEET

AMERICAN SMELTING AND REFINING COMPANY				
area: YERINGTON	data by: RVB	state: NEVADA	township-range	revisions - date
		county: LYON	map number	PLATE # 19
title: CONTOURS OF ρ_a	drawn by: RVB	0 1 2 3		
mining district	date: JUNE 1970	1" = 1 MILE		



a = 2000'

N = 2

RESISTIVITY VALUES IN OHM-FEET

AMERICAN SMELTING AND REFINING COMPANY				
area YERINGTON	data by RVB	state NEVADA	township-range	revisions - date
		county LYON	map number	PLATE 12 20
title CONTOURS OF ρ_a	drawn by LMH	1 0 1 2mi.		
mining district	date JUNE 1970			

EXPLANATION

pti - POST MINERAL INTRUSIVES

pei - PRE MINERAL INTRUSIVES

msv - METASEDIMENTS & METAVOLCANICS

▒ - TACTITE

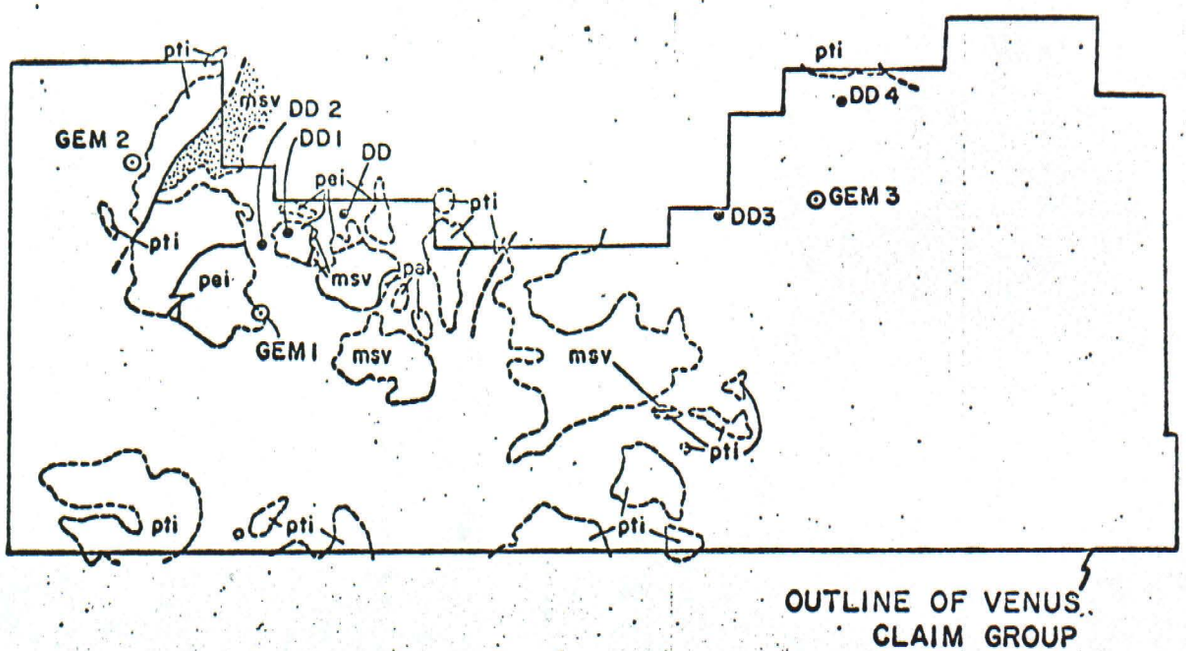
--- - FAULTS

GEM 1 - ASARCO DRILL HOLES

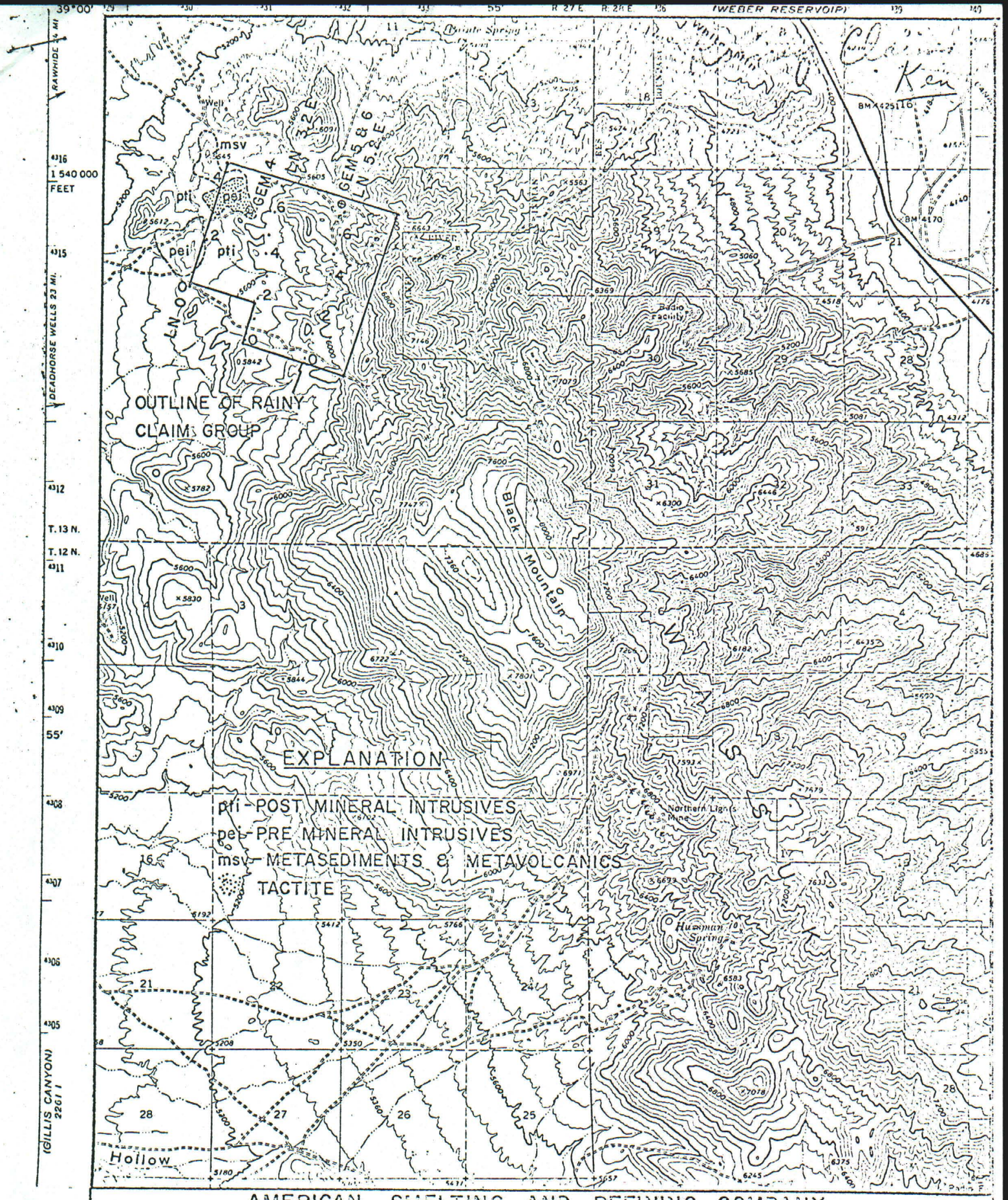
DD 1 - DRILL HOLE (0-546' GRANODIORITE PORPHYRY FRESH, 552' FAULT, 744' METASEDIMENTS WITH PYRITE)

DD 2 - (0-679' GRANODIORITE PORPHYRY FRESH, 692' FAULT, 869' METASEDIMENTS WITH PYRITE)

DD 3 & 4 - (500' POSTMINERAL LAKEBEDS - TUFF)

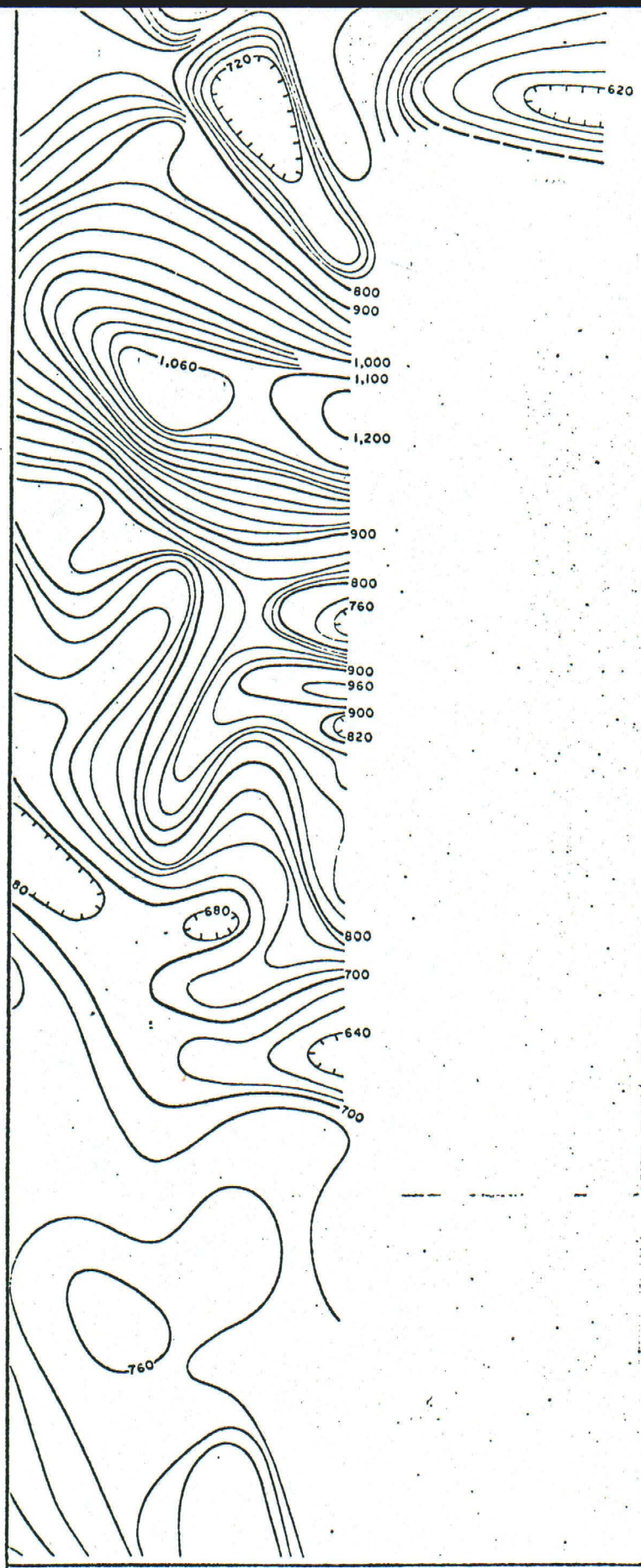


AMERICAN SMELTING AND REFINING COMPANY				
area GEM PROJECT - YERINGTON QUAD	data by RVB	state NEVADA	township-range	revisions - date
		county LYON	map number	PLATE 13B 21
title GENERAL GEOLOGY	drawn by LMH	1 0 1 2 mi.		
mining district YERINGTON	date OCT. 1970			



AMERICAN SMELTING AND REFINING COMPANY

area: RAINY GROUP-SCHURZ QUAD	data by: RVB	state: NEVADA	township-range	revisions - date
title: BASE MAP	drawn by: RVB	county: MINERAL	map number	PLATE 27
mining district: YERINGTON	date: AUG. 1970	0 2 3 1"=1 MILE		



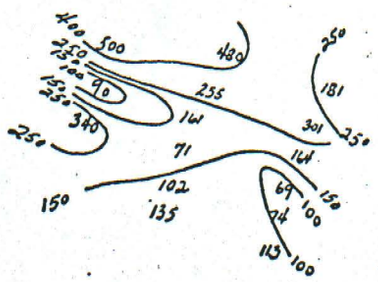
AMERICAN SMELTING AND REFINING COMPANY

area: RAINY GROUP-SCHURZ QUAD	data by: RVB	state: NEVADA	township-range	revisions - date
title: AEROMAGNETIC MAP	drawn by: LMH	county: MINERAL	map number	PLATE 28
mining district: YERINGTON	date: OCT. 1970	1 0 1 2 MI		

1000' a
mV/V
N = 2

AMERICAN SMELTING AND REFINING COMPANY

area: RAINY GROUP - SCHURZ QUAD	data by: RVB	state: NEVADA	township-range:	revisions -
title: CONTOURED I. P. RESPONSE	drawn by: LMH	county: MINERAL	map number:	PLATE 8C
mining district:	date: OCT. 1970	1 0 1		



1000' a
N = 2

AMERICAN SMELTING AND REFINING COMPANY

area: RAINY GROUP – SCHURZ QUAD	data by: RVB	state: NEVADA	township-range	revisions - date
title: CONTOURED RESISTIVITY	drawn by: LMH	county: MINERAL	map number	PLATE 30
mining district	date: OCT. 1970	1 0 1 2 mi.		

Parnasse Company Inc.
ARLINGTON TOWER SUITE 240
100 NORTH ARLINGTON
RENO, NEVADA 89501
TELEPHONE (702) 329-6226

October 11, 1971

Parnasse Company, Inc.
Scottsdale, Arizona
ATTN: Mr. Patrick Darcy

PROPERTY EXAM VENUS CLAIMS

Presented by Mr. Kenneth Palosky.

Location

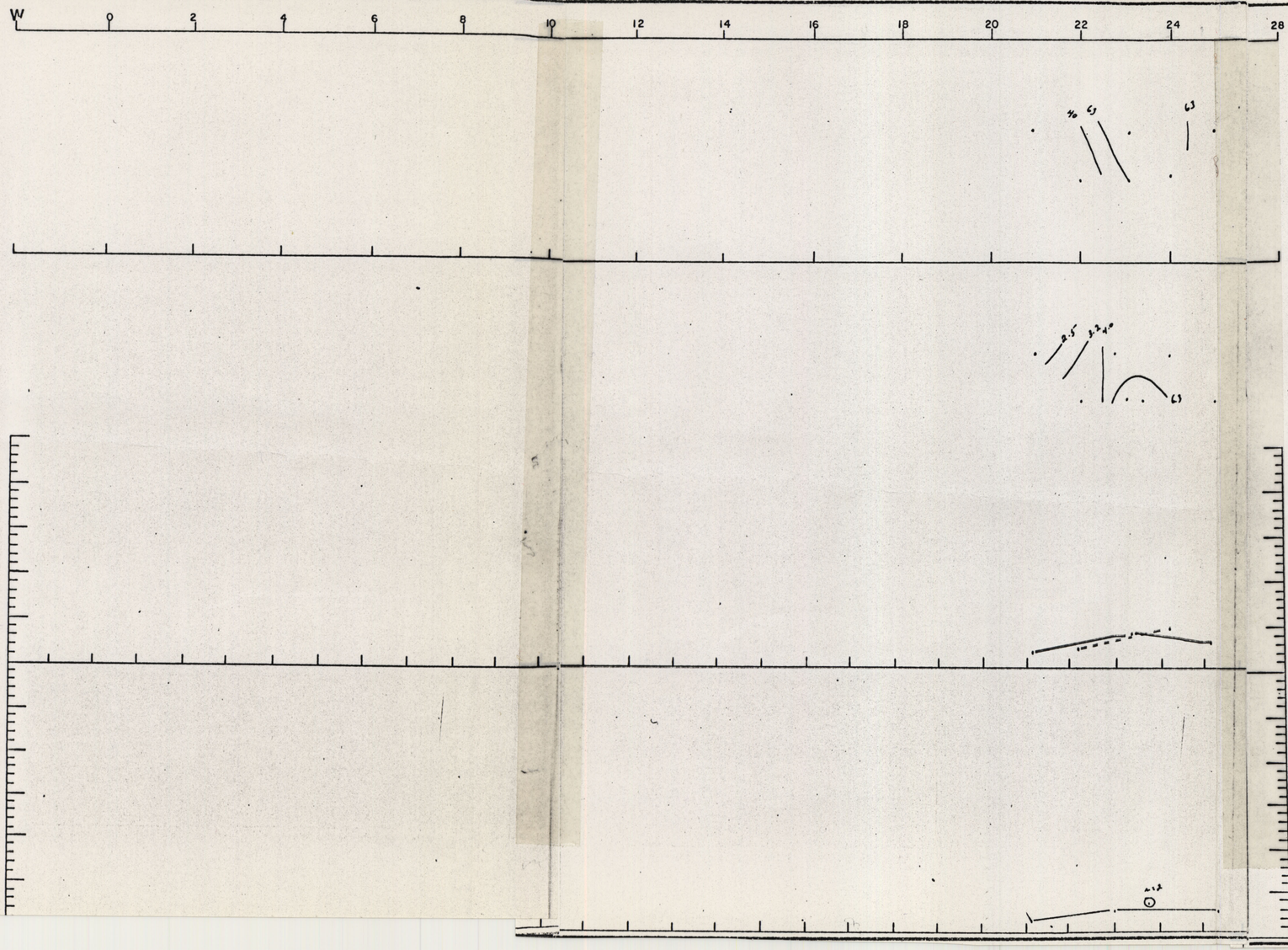
The main block of claims, which includes 745 unpatented Venus claims and 33 patented claims within the Colegrove lease, are located mainly in Mineral County, Nevada. The nearest town is Yerington which is approximately 6 miles NW of the property. Plate 1 gives the approximate boundaries of the above mentioned claims.

Included with this property are 54 unpatented Rainy claims. See Plate 1.

Claims

754 unpatented Venus claims
33 patented claims within the Colegrove lease
54 unpatented Rainy claims (Parnasse has the option of including this property within the lease or rejecting it. However, the payments remain the same, no matter which option we choose. It should be noted that the Venus claims and Rainy block are not contiguous and would require two separate programs to complete yearly


YERINGTON
Lyon Health Center
Luhr Hill
Yerington Cemetery
Sanders School
South End Community Hall
Barrett School
Bee Ranch
Walker River
T.13N.
T.12N.
Blue Jay Mine
Copper Ridge Mine
MAJOR POWER LINE
G.E.M. RAINY CLAIM GROUP
LYON CO
MINERAL CO
OUTLINE OF U.S. STEEL CURRENT DRILLING
U. S. STEEL LYON CLAIM GROUP
OUTLINE U.S. STEEL ORE ZONES.
NORTH ORE BODY
SOUTH ORE BODY (MAIN-FE ORE ZONE)
S. E. ORE BODY
I.P. Line 3N
I.P. Line 0
I.P. Line 2S
I.P. Line 4S
I.P. Line 6S
I.P. Line 8S
GEM 1
GEM 2
GEM 3
SAGE 1
SAGE 2
G.E. VENUS CLAIM GROUP
Pumpkin Hollow
Regan Mine
R.26E. R.27E.
EXPLANATION
ASARCO I.P. LINES
WEAK TO MODERATE I.P. ANOMALY (ASARCO) OUTLINE
GENERAL EARTH MINERALS (G.E.M.) GROUND OPTIONED TO ASARCO
GEM ROTARY DRILL HOLE (ASARCO)
SAGE DIAMOND DRILL HOLE (UTAH) CONSTRUCTION & MINING
POST MINERAL - TERTIARY VOLCA... & SEDIMENTARY ROCKS
PRE MINERAL - GRANODIORITE
PRE MINERAL - METAVOLCANIC (ANDESITE) ROCK
PYRITIZED & STRONGLY ALTERED ROCK (MOSTLY SUPERGENE QUARTZ-CLAY)
FAULT
5430 0187
AMERICAN SMELTING AND REFINING COMPANY
AREA GEM PROJECT
state NEVADA
county LYON & MINERAL
TITLE PROPERTY, I.P. LINES & DRILL HOLE LOCATIONS
township-range
mining district YERINGTON - PUMPKIN HOLLOW
revisions date
map number
data by G.J.S. & RVB
drawn by LMH
date NOV 1970
PLATE 1



LINE 3 N

a SPACING : 2000

ELECTRODE CONFIGURATION : DIPOLE-DIPOLE

TIMING: 2 ON-2 OFF

EQUIPMENT : SCINTREX

OPERATOR: RVB

——— N=1

--------N=2

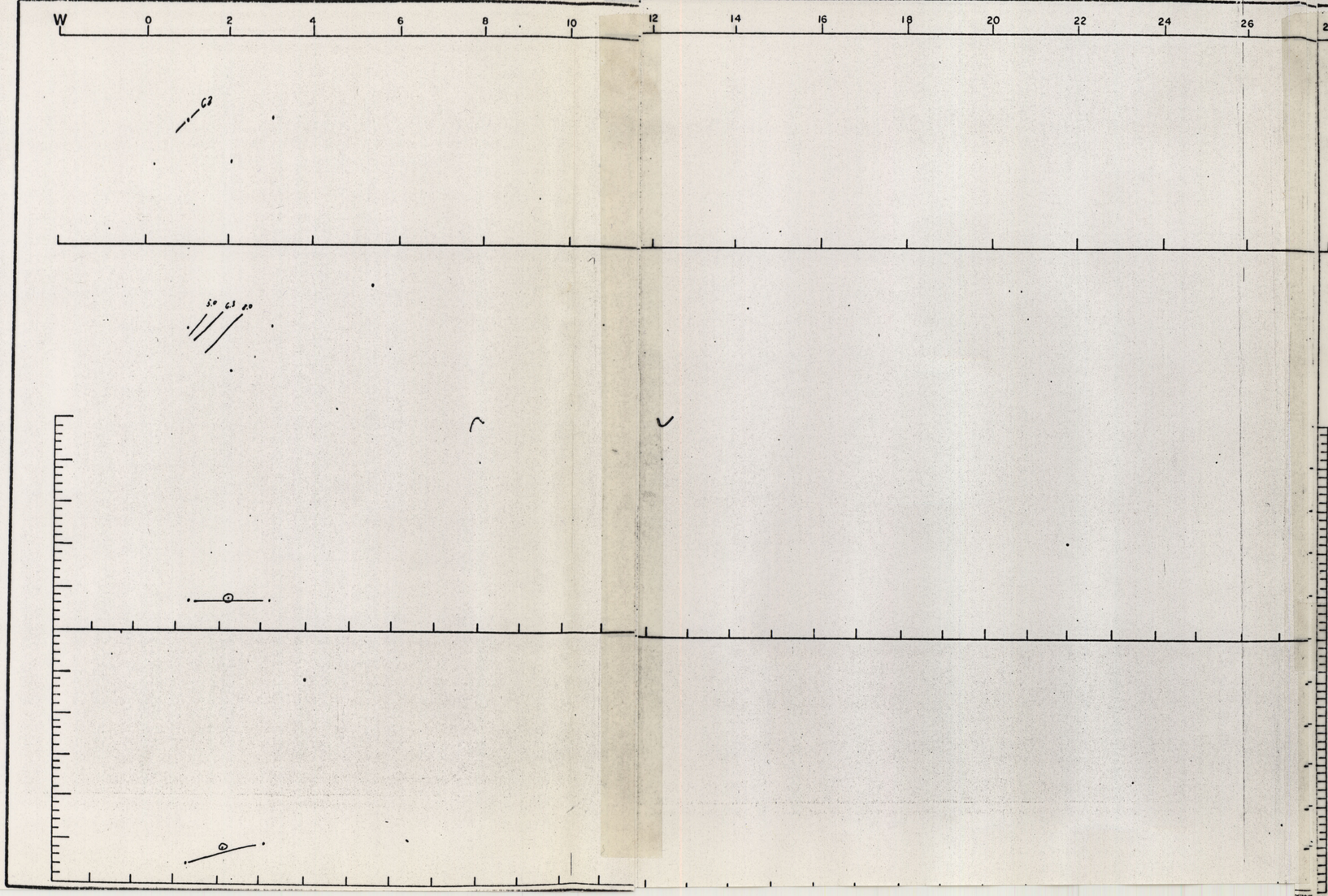
5430 0187

AMERICAN SMELTING AND REFINING COMPANY

AREA: YERINGTON	state: NEVADA
	county: LYON
TITLE: I.P AND RESISTIVITY PROFILE	township-range
mining district	revisions-date
data by: RVB / drawn by: RVB / date: JUNE 1970	map number

0 2000 4000 6000
1"=2000'

PLATE 6



LINE 4 N

ρa

a

I.P.

GEOLOGY AND COMMENTS

a SPACING : 2000

ELECTRODE CONFIGURATION : DIPOLE-DIPOLE

TIMING: 2 ON-2 OFF

EQUIPMENT : SCINTREX

OPERATOR : RVB

500
400 ρa
300
200
100
0

N=1

N=2

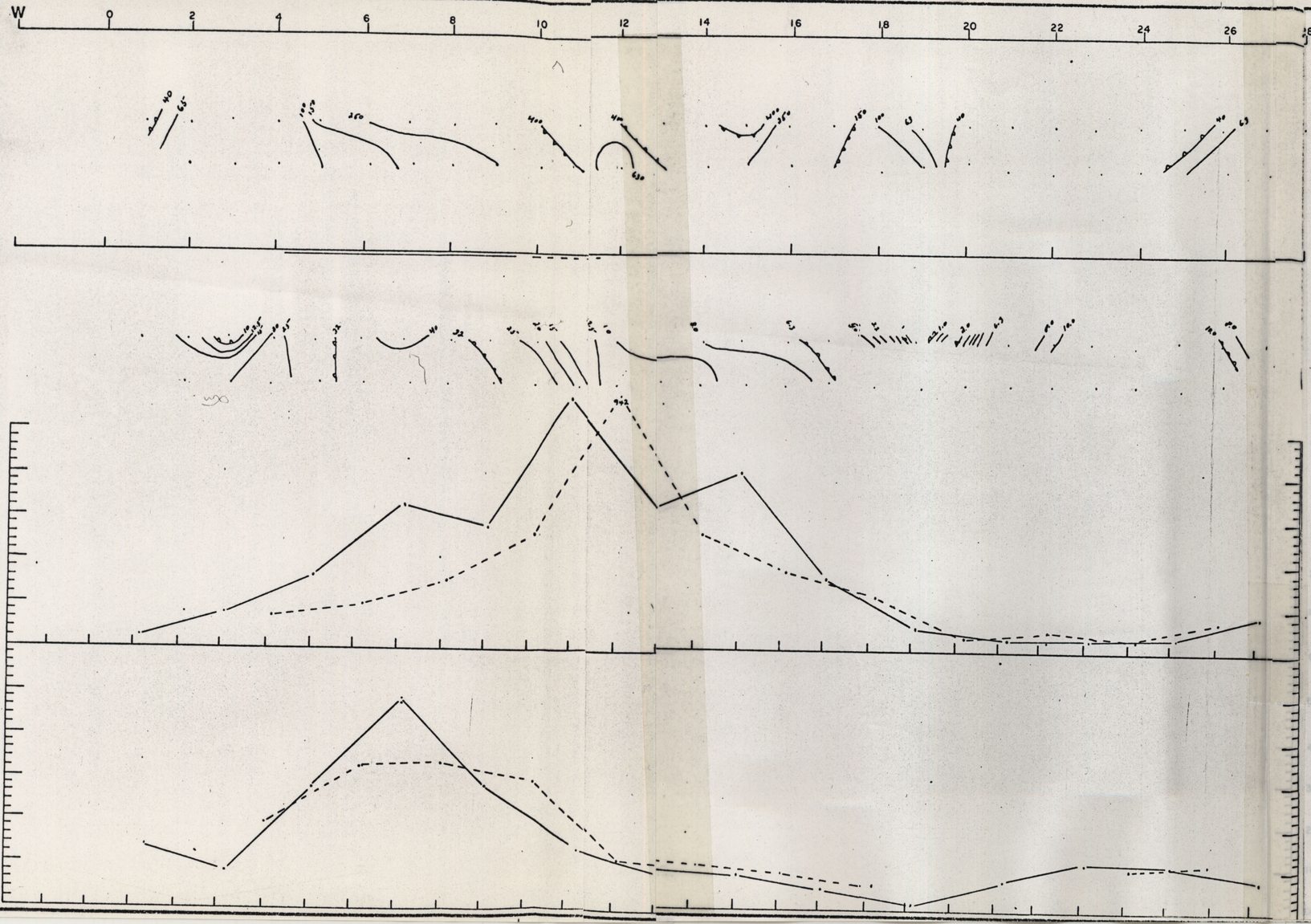
50
I.P. MS
40
30
20
10
0

5430 0187

AMERICAN SMELTING AND REFINING COMPANY

AREA: YERINGTON	state: NEVADA
TITLE: I.P. AND RESISTIVITY PROFILE	county: LYON
mining district	township-range
revisions-date	map number
data by: RVB	drawn by: RVB
date: JUNE 1970	PLATE # 5

0 2000 4000 6000
1"=2000'



LINE 0

a SPACING : 2000

ELECTRODE CONFIGURATION : DIPOLE-DIPOLE

TIMING : 2 ON - 2 OFF

EQUIPMENT : SCINTREX

OPERATOR : RVB

———— N = 1

--------- N = 2

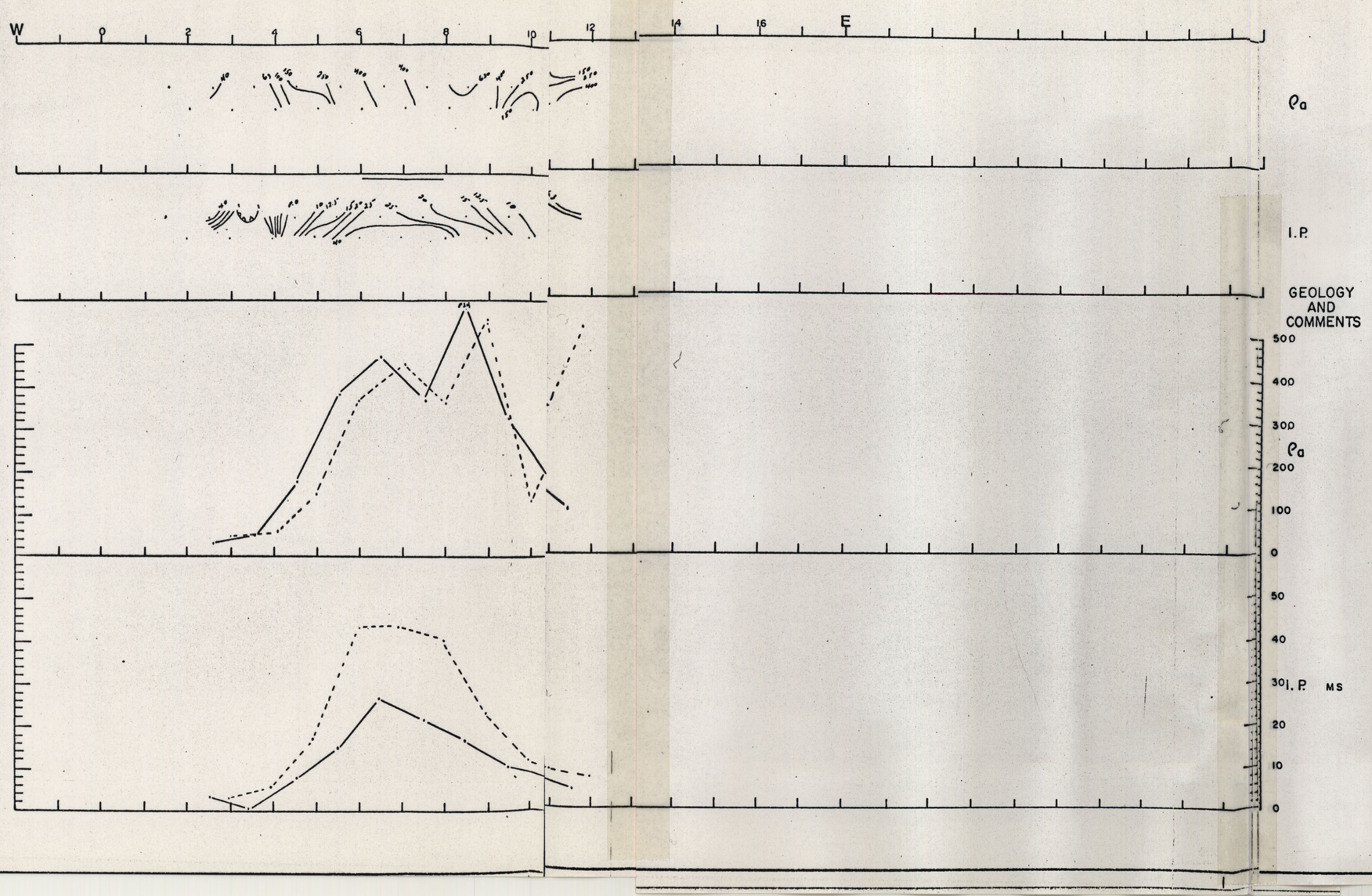
5430 0187

AMERICAN SMELTING AND REFINING COMPANY

AREA: YERINGTON	state: NEVADA
TITLE: I.P. AND RESISTIVITY PROFILE	county: LYON
mining district	township-range
revisions-date	map number
data by: RVB	drawn by: RVB
date: JUNE 1970	PLATE 37

0 2000 4000 6000

LINE 0



a SPACING : 1000

ELECTRODE CONFIGURATION : DIPOLE-DIPOLE

TIMING : 2 ON - 2 OFF

EQUIPMENT : SCINTREX

OPERATOR : RVB

———— N = 1

---------- N = 2

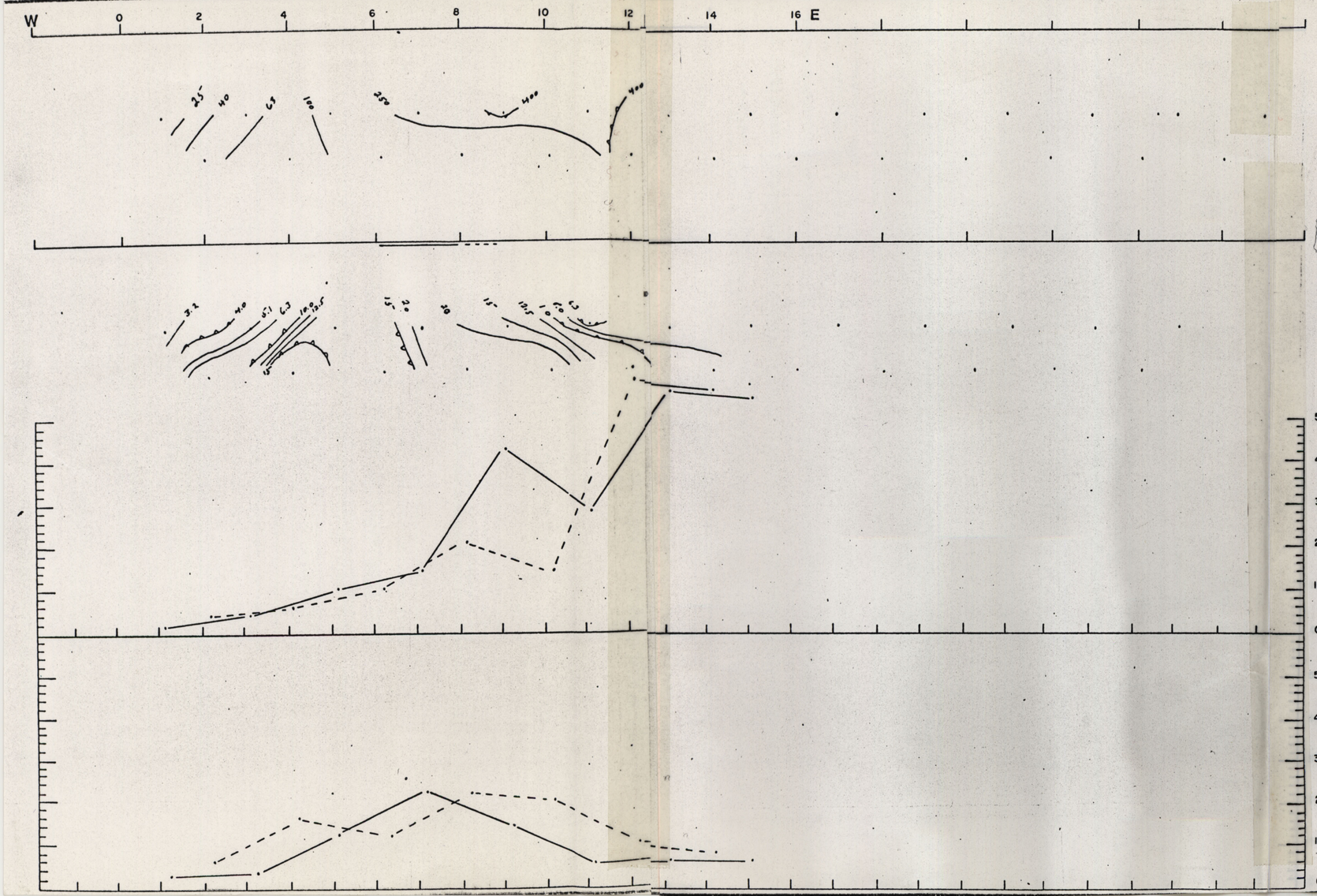
EA30 0187

AMERICAN SMELTING AND REFINING COMPANY

AREA: YERINGTON	state: NEVADA
TITLE: I.P. AND RESISTIVITY PROFILE	county: LYON
mining district	township-range
revisions-date	map number
data by: RVB	drawn by: RVB
date: JUNE 1970	PLATE 3A 6

0 2000 4000 6000
1" = 2000'

LINE 2S



a SPACING : 2000

ELECTRODE CONFIGURATION : DIPOLE-DIPOLE

TIMING: 2 ON-2 OFF

EQUIPMENT : SCINTREX

OPERATOR: RVB

——— N=1

--------N=2

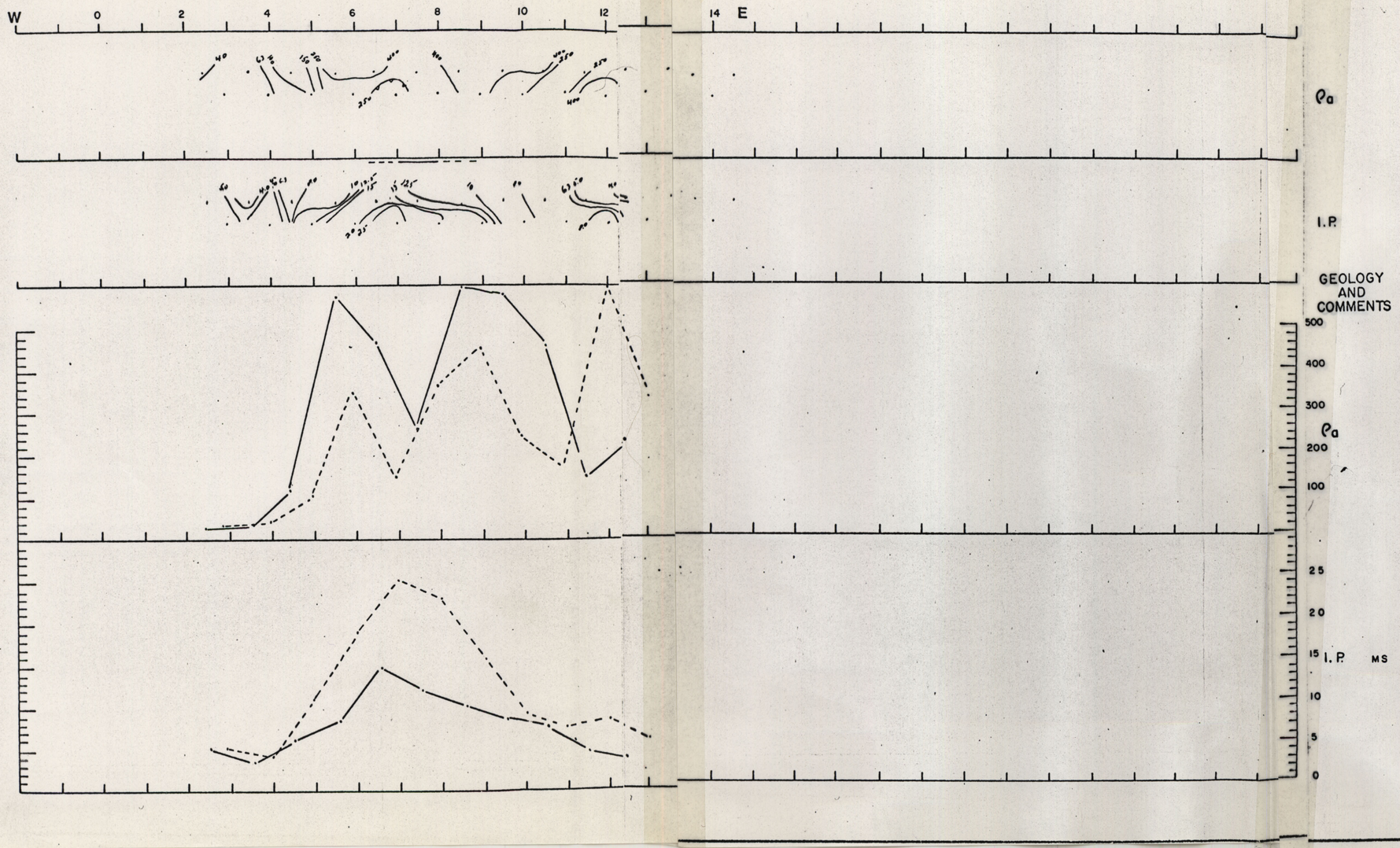
5430 0187

AMERICAN SMELTING AND REFINING COMPANY

AREA: YERINGTON	state: NEVADA
TITLE: I.P. AND RESISTIVITY PROFILE	county: LYON
mining district	township-range
revisions-date	map number
data by: RVB / drawn by: RVB / date: JUNE 1970	PLATE 9

0 2000 4000 6000
1"=2000'

LINE 2S



a SPACING : 1000

ELECTRODE CONFIGURATION : DIPOLE-DIPOLE

TIMING : 2 ON-2 OFF

EQUIPMENT : SCINTREX

OPERATOR : RVB

——— N=1

---------N=2

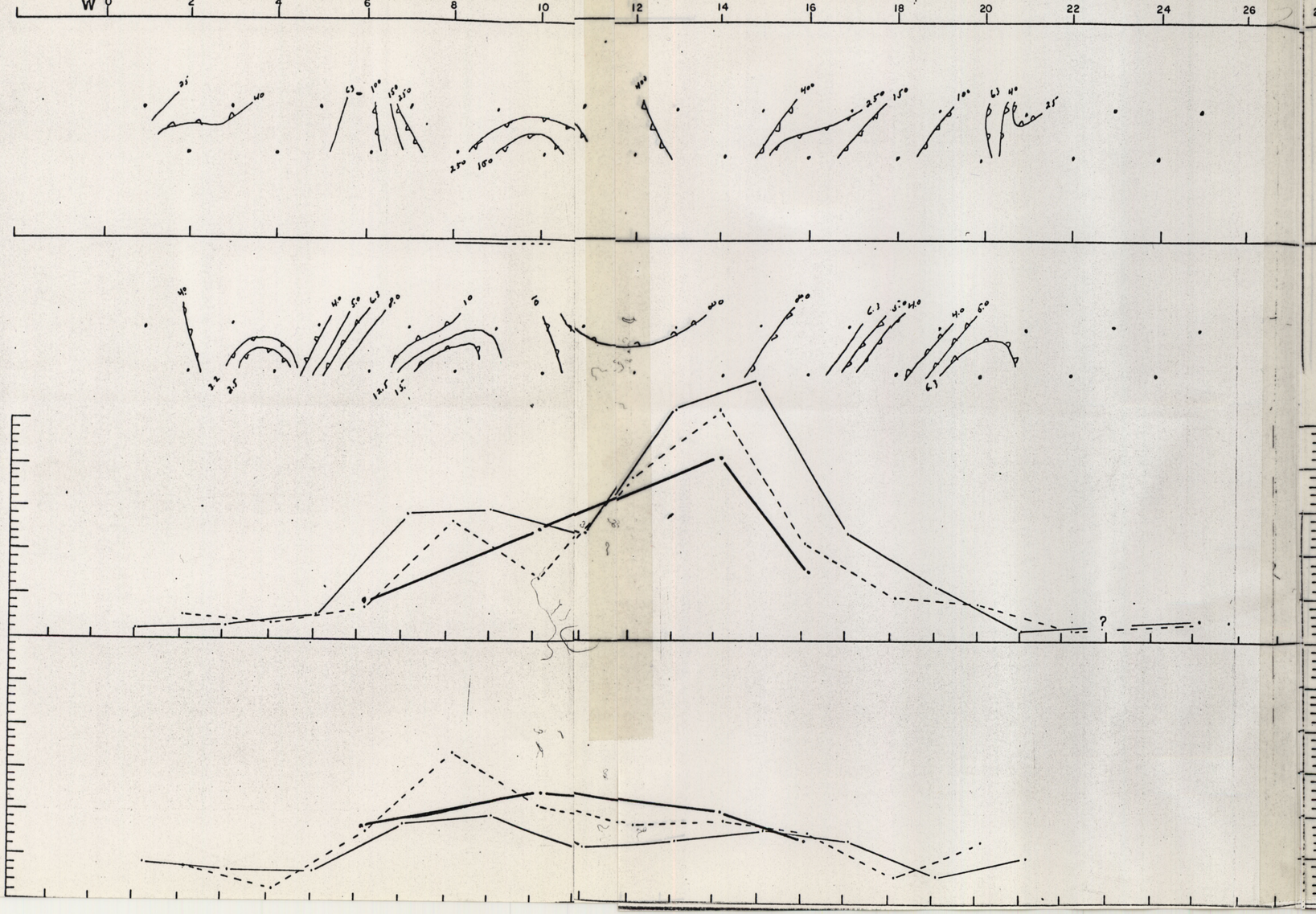
5A30 0187

AMERICAN SMELTING AND REFINING COMPANY

AREA YERINGTON	state NEVADA
TITLE I.P. AND RESISTIVITY PROFILE	county LYON
mining district	township-range
revisions-date	map number
drawn by RVB	checked by RVB
date JUNE 1970	PLATE 5A 10

0 2000 4000 6000

1" = 2000'



LINE 4S

a SPACING : 2000

ELECTRODE CONFIGURATION : DIPOLE - DIPOLE

TIMING: 2 ON - 2 OFF

EQUIPMENT : SCINTREX

OPERATOR: RVB

——— N=1

--------- N=2

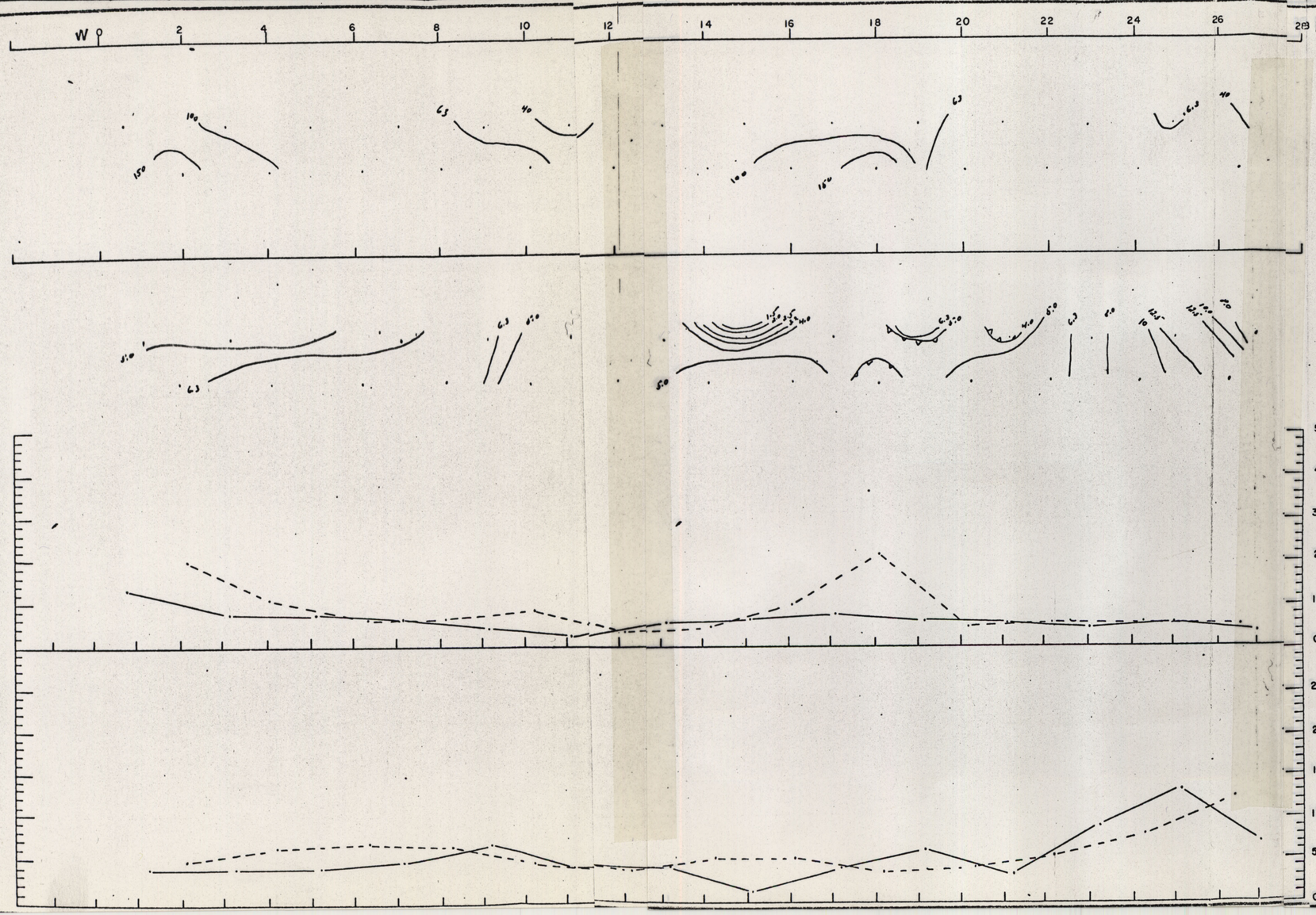
——— N=1 4000' a

5430 0187

AMERICAN SMELTING AND REFINING COMPANY

AREA YERINGTON	state NEVADA
	county LYON
TITLE I.P. AND RESISTIVITY PROFILE	township-range
mining district	revisions-date
	map number
data by RVB / drawn by RVB / date JUNE 1970	PLATE 11

0 2000 4000 6000
1 "= 2000'



LINE 8 S

a SPACING : 2000

ELECTRODE CONFIGURATION : DIPOLE-DIPOLE

TIMING: 2 ON - 2 OFF

EQUIPMENT : SCINTREX

OPERATOR: RVB

——— N = 1

--------- N = 2

5430 0187

AMERICAN SMELTING AND REFINING COMPANY

AREA: YERINGTON	state: NEVADA
TITLE: I.P. AND RESISTIVITY PROFILE	county: LYON
mining district	township-range
data by: RVB	drawn by: RVB; date: JUNE 1970; rev. s.ons-date
	map number
0 2000 4000 6000 1" = 2000'	PLATE # 13

U.S. STEEL CORPORATION
LYON CLAIM GROUP

COLEGROVE LEASE

ORIGINAL VENUS CLAIM GROUP

LYON CO.
MINERAL CO.

LOWLAND
CLAIM
GROUP

BETERBE
CLAIM
GROUP

U.S. SMELTING REFINING & MINING CO.
HIDEAWAY CLAIM GROUP

CLAIM GROUP BOUNDARIES INEXACT

(APPROXIMATE BOUNDARY OF REGAN CLAIMS)

REGAN GYPSUM
LEASES

NOT LOCATED IN FIELD

LOCATED IN FIELD

LEGEND

B BETERBE CLAIMS
V VENUS CLAIMS
P PAD CLAIMS
Fr CLAIM FRACTION
POWER LINE

RUTH CLAIM GROUP

ROAN'S CLAIM GROUP

APOLLO CLAIM GROUP

BRUNTON-TAPE SURVEY

CLAIM MAP

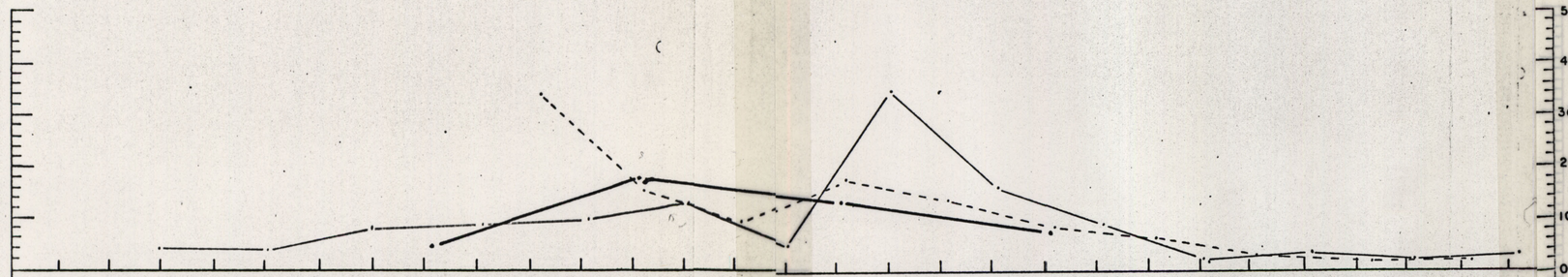
EAST YERINGTON MINING DISTRICT
LYON & MINERAL COUNTIES, NEVADA.

SCALE
Feet 1000 0 1000 2000 3000 4000 5000 Feet

COMPILED BY I. R. GRAY & E. M. SMITH, GEOLOGISTS.

Plate 22

5430 0187



LINE 6S

a SPACING : 2000

ELECTRODE CONFIGURATION : DIPOLE-DIPOLE

TIMING : 2 ON - 2 OFF

EQUIPMENT : SCINTREX

OPERATOR : RVB

——— N=1

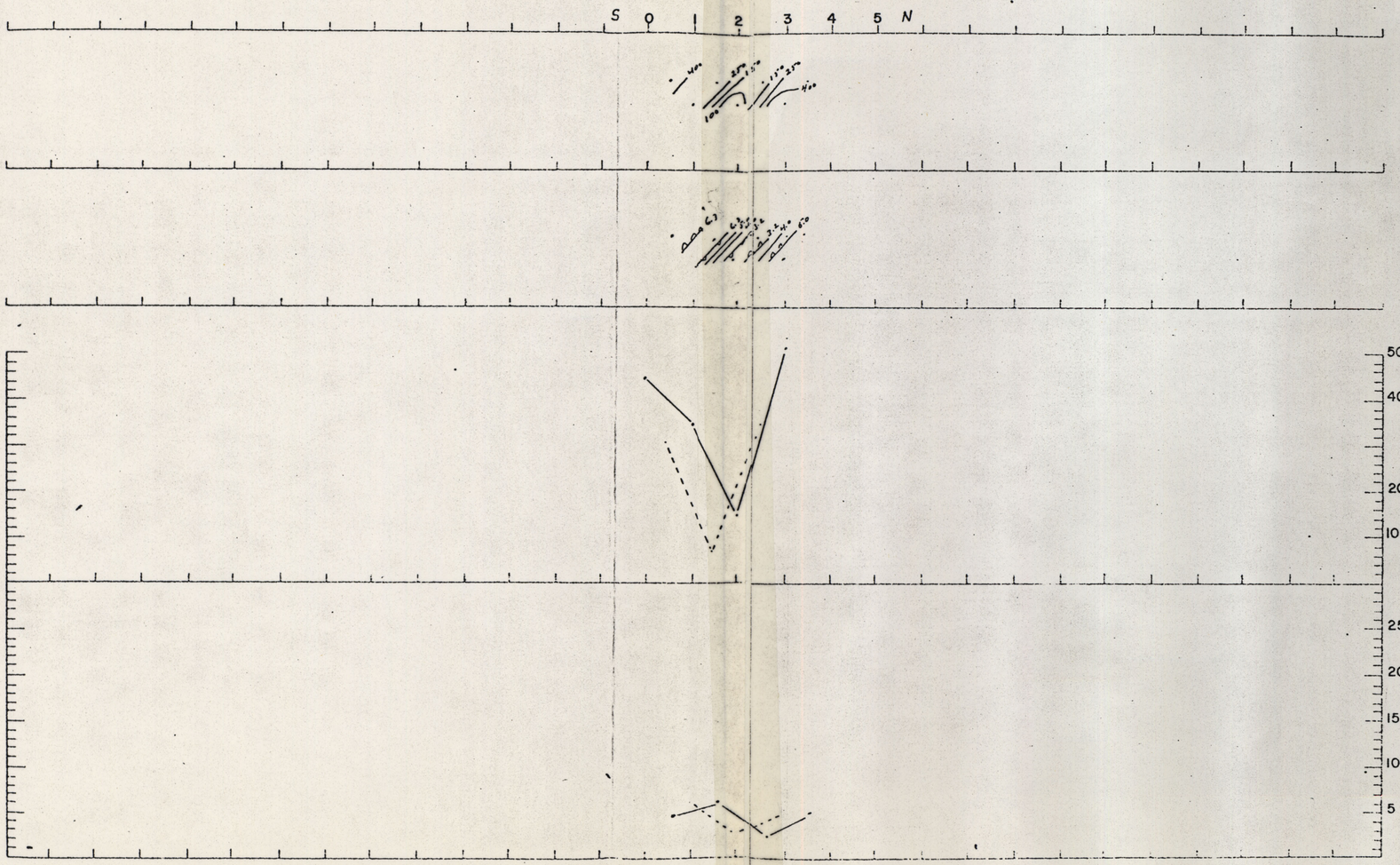
- - - - - - - - N=2

——— N=1 4000' a

5430 0187

AMERICAN SMELTING AND REFINING COMPANY

AREA: YERINGTON	state: NEVADA
	county: LYON
TITLE: I.P. AND RESISTIVITY PROFILE	township-range:
mining district:	revisions-date:
data by: RVB	drawn by: RVB; date: JUNE 1970
	map number:
0 2000 4000 6000 1"=2000'	PLATE 12



LINE 0

EQUIPMENT : SCINTREX

a SPACING : 1000

ELECTRODE CONFIGURATION : DIPOLE-DIPOLE

OPERATOR : RVB

TIMING : 2 ON-2 OFF

——— N=1

--------N=2

5430 0187

AMERICAN SMELTING AND REFINING COMPANY

AREA: SCHURZ QUAD – Rainey claims

STATE: NEVADA

COUNTY: MINERAL

TITLE: I.P. AND RESISTIVITY PROFILE

MINING DISTRICT: YERINGTON

DATA BY: RVB

DRAWN BY: RVB, SWS

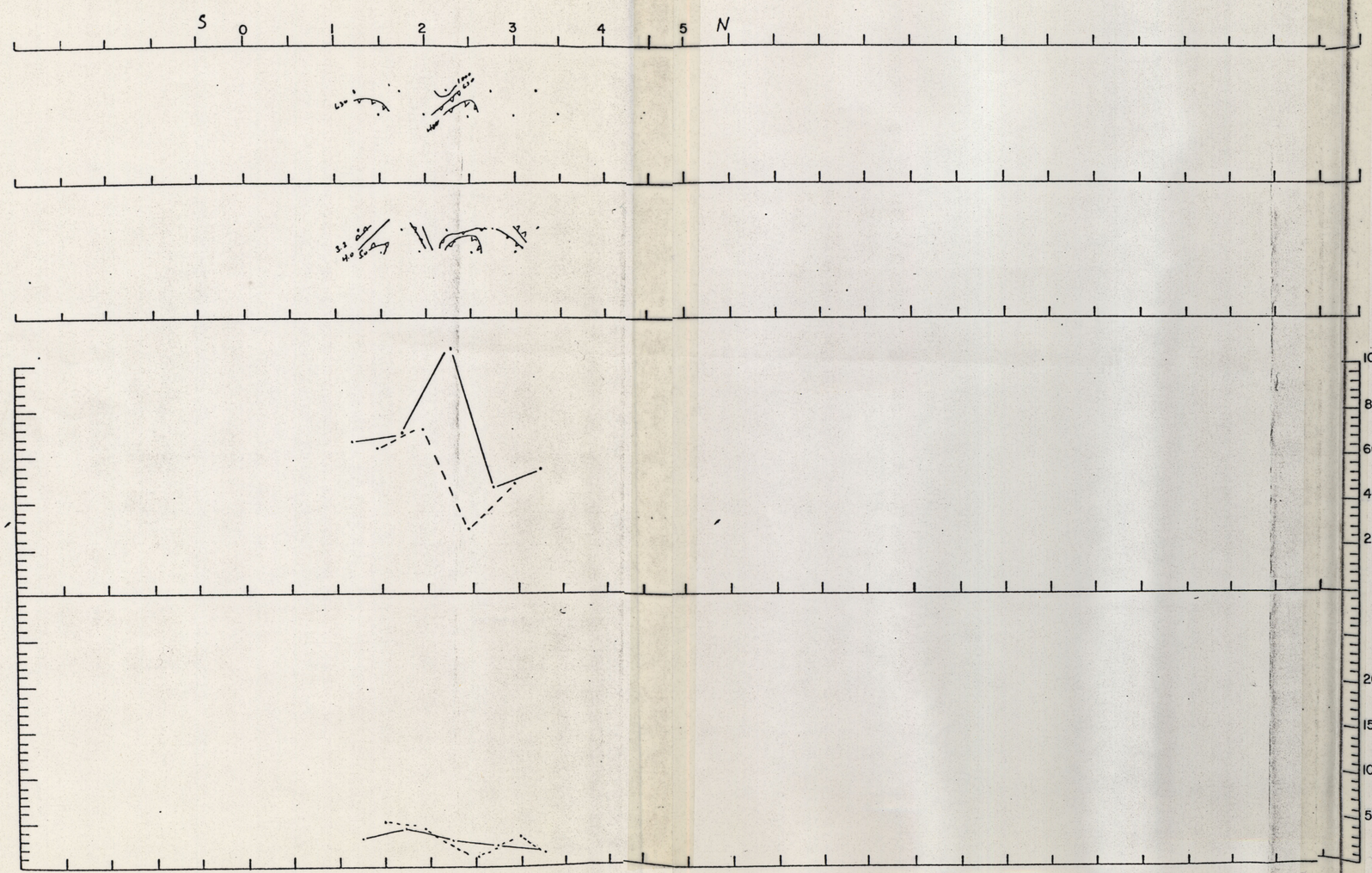
DATE: AUG. 1970

0 2000 4000 6000

1" = 2000'

PLATE 23

LINE 0



a SPACING : 500

ELECTRODE CONFIGURATION : DIPOLE-DIPOLE

TIMING : 2 ON-2 OFF

EQUIPMENT : SCINTREX

OPERATOR : RVB

———— N=1

---------- N=2

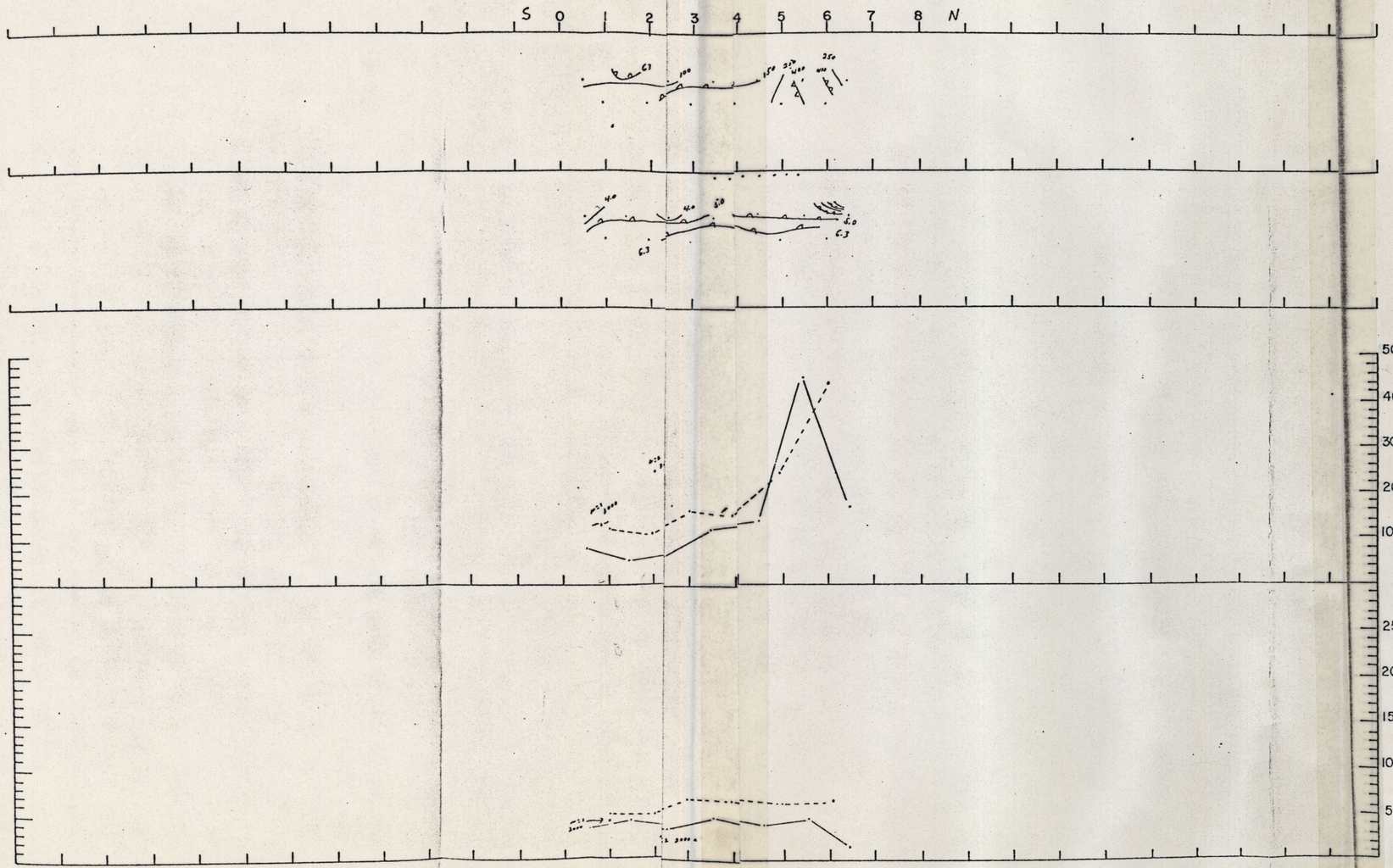
SA30 0187

AMERICAN SMELTING AND REFINING COMPANY

AREA SCHURZ QUAD – Ramos claims	state NEVADA
TITLE I.P. AND RESISTIVITY PROFILE	county MINERAL
	township-range
mining district YERINGTON	map number
data by RVB / drawn by RVB / date AUG. 1970	PLATE IV-A 24

0 1000 2000 3000
1"=1000'

LINE 3.2 E



a SPACING : 1000

ELECTRODE CONFIGURATION : DIPOLE-DIPOLE

TIMING : 2 ON - 2 OFF

EQUIPMENT : SCINTREX

OPERATOR : RVB

——— N=1

---------N=2

X N=1 2000' a

⊙ N=2 2000' a

5430 0187

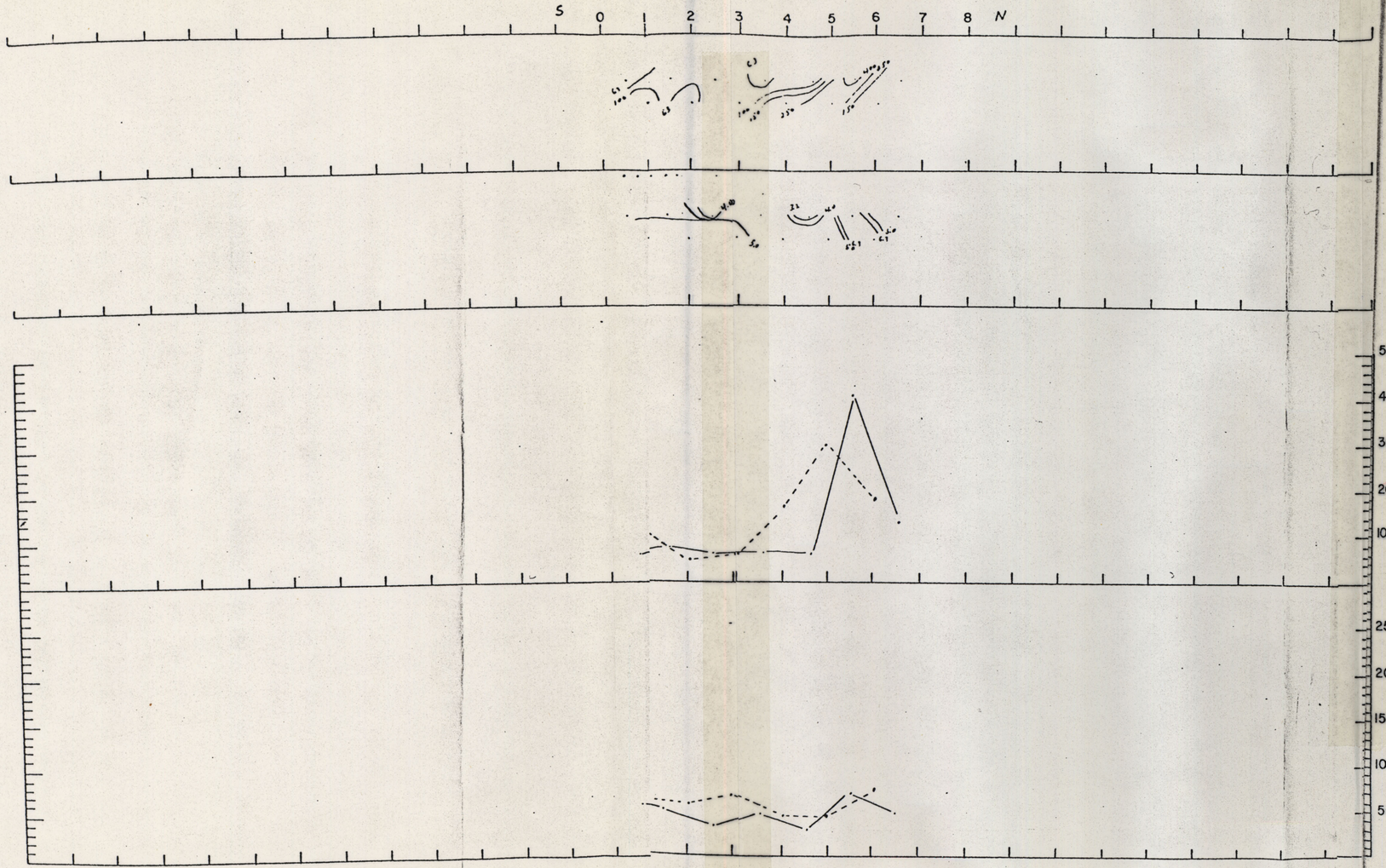
AMERICAN SMELTING AND REFINING COMPANY

AREA: SCHURZ QUAD – Rainey claims	state: NEVADA
TITLE: I.P. AND RESISTIVITY PROFILE	county: MINERAL
mining district	township-range
data by: RVB	drawn by: RVB
date: AUG. 1970	revisions-date
map number	

0 2000 4000 6000
1"=2000'

PLATE 25

LINE 5.2E



a SPACING : 1000

ELECTRODE CONFIGURATION : DIPOLE-DIPOLE

TIMING : 2 ON-2 OFF

EQUIPMENT : SCINTREX

OPERATOR : RVB

———— N=1

---------- N=2

EA30 0187

AMERICAN SMELTING AND REFINING COMPANY

AREA: SCHURZ QUAD - Rainy claim	state: NEVADA
TITLE: I.P. AND RESISTIVITY PROFILE	county: MINERAL
mining district: YERINGTON	township-range
revisions-date	map number
data by: RVB / drawn by: RVB / date: AUG. 1970	
0 2000 4000 6000 1"=2000'	PLATE 326