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Item #8

Preliminary
Report on Exploration
of the
HEAVY ROCK PROPERTY
Esmeralda County, Nevada
1983

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for
CR Exploration Company

CONTENTS

	Page Number
<u>SUMMARY AND CONCLUSIONS</u>	1
<u>RECOMMENDATIONS</u>	1
<u>INTRODUCTION</u>	2
<u>GEOLOGY</u>	5
GENERAL.....	5
HARKLESS FORMATION.....	5
PALMETTO FORMATION.....	6
IGNEOUS AND VOLCANIC ROCKS.....	6
STRUCTURE.....	6
ALTERATION.....	7
MINERALIZATION.....	8
<u>GEOPHYSICAL SURVEY RESULTS</u>	9
<u>REFERENCES</u>	11

FIGURES

Figure 1 - Location of the Heavy Rock Property.....	4
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APPENDICES

Appendix I - Rotary Drill Hole Logs

Appendix II - Surface and Drill Hole Sample Assay Results

Appendix III - Report on the Induced Polarization and Resistivity
on the Heavy Rock Property (Phoenix Geophysics, Inc.)

Appendix IV - Geologic Cross Sections

Appendix V - Structure-Contour Map of Top of IP Anomalies

PLATES

- Plate 1 - Heavey Rock Group & HR Group..... in pocket
Plate 2 - Geologic Map..... in pocket
Plate 3 - Alteration Map..... in pocket
Plate 4 - Au, As, Ba, Zn, Content Isoline Map..... in pocket
Plate 5 - Gold Content Isoline Map..... in pocket
Plate 6 - Silver Content Isoline Map..... in pocket
Plate 7 - Barium Content Isoline Map..... in pocket
Plate 8 - Arsenic Content Isoline Map..... in pocket
Plate 9 - Copper Content Isoline Map..... in pocket
Plate 10 - Lead Content Isoline Map..... in pocket
Plate 11 - Zinc Content Isoline Map..... in pocket
Plate 12 - Molybdenum Content Isoline Map..... in pocket

SUMMARY AND CONCLUSIONS

The Heavy Rock property is located about 13 miles southwest of the town of Silverpeak in Esmeralda County, Nevada. It is underlain by northeast dipping Cambrian and Ordovician siltstones, shales and limestones which have been intruded along northwest trending high angle structures, by small quartz monzonite and basalt dikes.

The jasperized, argillized carbonate rock and structure controlled gold-silver-barite-arsenic association of elements found on the Heavy Rock property bears a striking similarity to other known gold ore deposits in Nevada such as the Alligator Ridge mine, the Taylor mine, the Atlanta district and the Raine deposit. Anomalous gold, silver, barium, arsenic, copper, lead, zinc and molybdenum mineralization exists along an 8500 foot, northwest trending, structurally controlled zone. The structures penetrate siltstone and shales in the north and carbonate rocks in the south. The siltstone and shale are unfavorable host rocks and mineralization is more or less confined to the structural conduits. In the more reactive carbonate rocks, metals were disseminated over a broad area.

The eastern one of two linear anomalies revealed by an Induced Polarization and Resistivity survey correlates well with the carbonate facies and is considered to have a favorable potential for disseminated sulfide mineralization.

RECOMMENDATIONS

Base and precious metal assay results and the structural and stratigraphic similarity of the Heavy Rock property to known gold ore deposits in Nevada compels a detailed study of the area. To accomplish this, the following recommendations are proposed:

- 1.) Areal photos, matched to our 1:6,000 scale topographic maps, should be prepared so trench locations can be accurately plotted on the topo base.

2.) Areal photo interpretation should be conducted to delineate structures which are not evident on the ground and to target surrounding features of potential interest for field investigation.

3.) Detailed geologic and alteration mapping of the property and reconnaissance mapping of the surrounding area should be conducted. During this phase, questions which may evolve from the photo interpretation should be investigated, including the following problems and areas of interest: exploration, beyond the property boundaries, of the southeastward extension of the mineralized limy facies of the Ordovician Palmetto Formation; a search for veins and alteration in the phyllite east of the thrust fault which may indicate mineralization hidden beneath the thrust; and a limited search for diagnostic fossils in the phyllite to resolve the question of the thrust fault below the phyllite.

4.) Rock chip samples should be collected on a grid pattern which extends beyond the limits of 1983 preliminary mapping. Notes should be kept on the rock type, alteration regime, proximity to structures etc. Samples should be assayed for Au, Ag, Cu, Pb, Zn, As, Sb, Mo, Ba and possibly Hg.

5.) Contour maps based on the assay results can then be constructed to aid in the development of the ore deposit model. Cross sections should be refined, based on new field data, to aid in determining depths to potential mineralization and to locate favorable drill targets.

Digestion of this and previous work should provide support for, or modification to, the drill targets proposed by Phoenix Geophysics, Inc. Additional targets will no doubt emerge as well.

INTRODUCTION

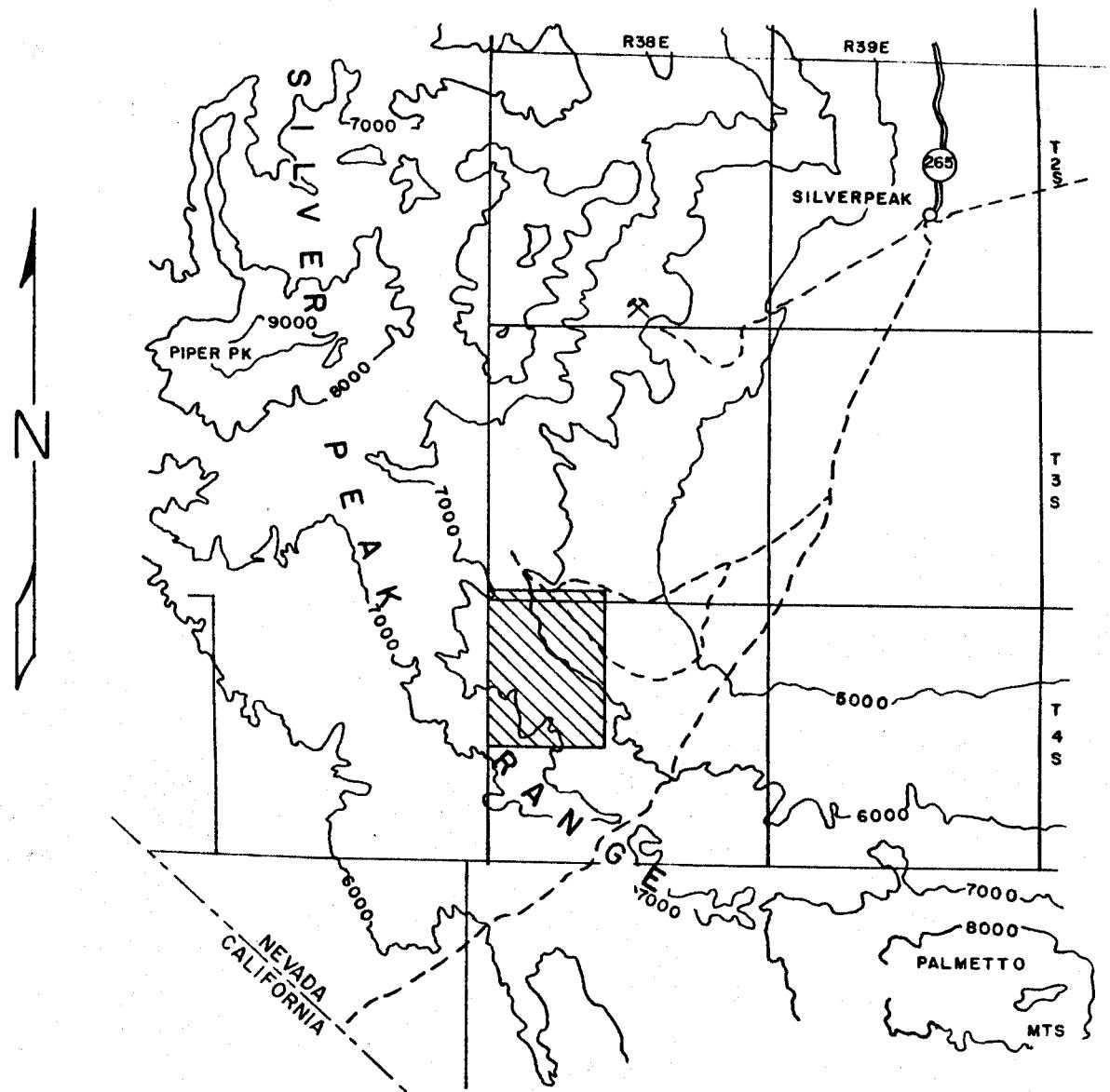
The Heavy Rock property is located in Esmeralda County, Nevada approximately 13 miles via dirt road southwest of the town of Silverpeak in sections 4, 5, 6, 7, 8, 9, 16 and 17 of Township 4 South, Range 38 East

(see Fig. 1). It consists of 87 contiguous lode claims located on the flanks of the Silver Peak Range at elevations ranging from 5520 to 6660 feet (Plate 1). The property is underlain by northeast dipping, early Paleozoic sedimentary rocks which have been locally intruded by small irregular bodies of quartz monzonite. Vesicular basalt and scoria are also exposed on the property. Northwest striking high angle faults have offset all units including the basalt. These structures have provided conduits for the introduction of base and precious metal mineralization on the property. Massive barite (specific gravity 4.5) is commonly found associated with these structures and provides the basis for the property name (the lessor inadvertently added an extra "e" to "Heavy" on all the claim notices which read "Heavey Rock". This spelling may be encountered by the reader, especially on documents relating to land matters).

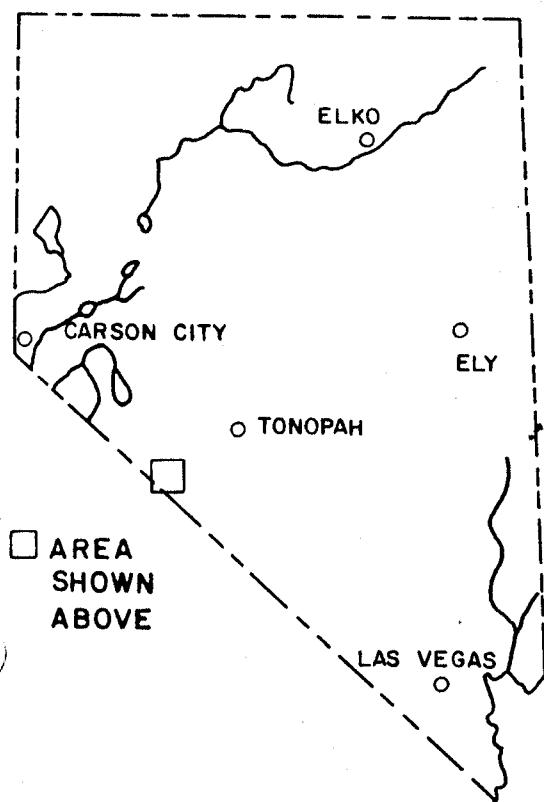
Previous exploration work on the property can be grouped into two periods; an early phase from which scattered prospect pits and shallow shafts remain, and a more recent phase during which more than eighty trenches were bulldozed and four, 150 to 200 foot, rotary holes were drilled.

CR Exploration obtained the property early in 1983. The lessors provided some data, including assay results for gold and silver and pulps from trench and drill hole samples collected by Dome Exploration, the previous lessees. The pulps were reassayed for Cu, Pb, Zn, As, Mo and Ba. The combined assay results provided the basis for CR's acquisition of the property. Assay results and drill logs compiled by Dome and CR Exploration are included in the Appendix.

A preliminary geologic map and eleven cross sections were compiled by CR Exploration in preparation for an Induced Polarization (IP) and Resistivity survey conducted by Phoenix Geophysics, Inc. of Wheat Ridge, Colorado. The cross sections and the results of this survey are included in the Appendix and the geologic map is included as Plate 2.



HEAVY ROCK AREA



**FIGURE I. LOCATION OF THE
HEAVY ROCK PROPERTY**

GEOLOGY

GENERAL

The area is underlain by early Paleozoic sedimentary rocks (see Plate 2). Phyllite, which overlies a calcareous facies of the Ordovician Palmetto Formation, is interpreted as belonging to the Cambrian Harkless Formation and therefore represents part of the upper plate of a thrust fault. Bedding in both formations is roughly concordant and the contact is poorly exposed at only one locality on the property. Brecciation in the upper few feet of Palmetto limestone at this locality is interpreted as being thrust fault related.

Post Triassic intrusion of a quartz monzonite stock southwest of the property has tilted the sedimentary units 20 to 50 degrees northeast. Northwest trending high angle faults in the Palmetto Formation provided conduits for base-and precious-metal-bearing solutions. Portions of the traces of these faults commonly are marked by jasperoid and jasperoid breccias and associated massive barite.

HARKLESS FORMATION

The Harkless Formation consists of brownish green to olive green fissile to slabby shales which commonly have been metamorphosed to phyllites. Fossils found at other localities in various horizons in the formation are diagnostically Cambrian in age. Fossils were not searched for and none were noted in the phyllite on the property, however, such an endeavor, if fruitful, would confirm the assignment of this unit to the Harkless Formation and the existance of a thrust relationship between it and the underlying Palmetto Formation. Currently, the age assignment of the phyllite is based on the relative degree of metamorphism between it and lithologically similar unmetamorphosed units in the Palmetto Formation; and the proximity, several miles south, of exposures of Harkless mapped by Albers and Stewart (1972).

PALMETTO FORMATION

The Palmetto Formation is the most extensively exposed unit in the area and is host to the mineralization of interest. Stratigraphically, the lowermost units are exposed along the western margin of the property and consist of black shales and siltstones which locally contain fossil graptolites. Graptolites collected by the U.S. Geological Survey from this area range from middle to late Ordovician in age (Albers & Stewart, 1972). Overlying the siltstones and shales is a calcareous shale/limestone facies. Mineralization on the Heavy Rock property exists primarily in this facies as structurally controlled veins and disseminated deposits.

Contained within all units are bedded black cherts ranging from 1 inch to more than 10 feet in thickness. The cherts typically are brecciated and cemented with cryptocrystalline silica.

IGNEOUS AND VOLCANIC ROCKS

Small intrusive bodies of quartz monzonite are exposed in the northern end of the property. They probably are dikes and apophyses which originated from the main body of the Palmetto pluton several miles to the southwest which forms the southwestward extension of the Silver Peak Range.

Vesicular basalts are found in the same vicinity and also off the southeast end of the mapped area. Scoria associated with the northern basalts probably represents a down-faulted and preserved portion of a cinder cone related to the eruption of the flow.

STRUCTURE

Thrust faults are common in Esmeralda County. Geologic relationships on the property strongly suggest the presence of a thrust fault which has emplaced the Cambrian Harkless Formation over the Ordovician Palmetto Formation. The surface expression of this thrust fault is to the east and down dip of mineralized exposures in the Palmetto. Northeast tilting has

resulted from the intrusion of the Palmetto pluton several miles southwest of the property. Drag and other types of minor folds were developed in the sedimentary units concurrent with tilting. Northwest striking, high angle faults have offset the basalts and older formations and have provided conduits for mineralizing solutions.

The presence of the thrust in the vicinity of mineralization offers some intriguing possibilities for additional hidden deposits. At the Alligator Ridge Mine and the Taylor Silver Mine in White Pine County, Nevada, high angle normal faults have been decapitated by younger thrusting which produced a 50 foot thick, low angle breccia zone at the contact. Ore forming fluids rising along the high angle structures encountered the breccias, localizing ore deposits.

On the Heavy Rock property a similar structural relationship exists, although the breccia zone is not as thick in surface exposures. High angle faults, truncated by or penetrating the thrust may exist east of the Harkless/Palmetto contact. If these faults were hydrothermal solution conduits, additional mineralized zones may exist below the thrust in the carbonate facies of the Palmetto.

ALTERATION

Argillization, silicification and calc-silicate mineral development characterize the alteration in the area (see Plate 3). Spotty, rather than pervasive calc-silicate mineralization and skarn development occurs locally throughout the area, particularly in association with monzonite intrusives. West and southwest of the project area calc-silicate mineralization increases as one nears the Palmetto pluton.

Breccias cemented with cryptocrystalline silica typically are associated with major structures. Pervasive silification of some units in the shale/siltstone facies has occurred. At a few localities, particularly where silification is stronger, small quartz veinlets are present. In the calcareous shale/limestone facies silica replacement of carbonate is widespread but rarely so intense that no carbonate remains. Certain horizons in this facies are more strongly silicified than others indicating a favorable potential for disseminated mineralization.

Argillization is most abundant in the limy facies southeast of the major northeast trending drainage. It is locally intense and can be seen penetrating into strongly silicified portions of limestone.

In contrast, in the shale/siltstone facies, very strong argillization occurs in small, widely scattered zones around fractures. Typically, alteration halos extend several inches to a few feet from major fractures and up to a few tens of feet along them. More commonly, halos 1/8" to 1/4" in width are the only visible effects. Some horizons in this facies seem to be more pervasively but mildly altered. Typically no feeder fractures are obvious in these localities.

These two types of occurrences result in a patchy, blotchy alteration pattern in the shale/siltstone facies. Because of the restricted habit of many of these occurrences, careful mapping may reveal structural patterns which may be useful for locating feeders to the more reactive limy facies and/or for determining the paragenetic sequence of mineralization in the area.

MINERALIZATION

Structure controlled jasperoid, massive barite veins and visible copper mineralization stimulated early exploration efforts in the area. Assays of samples collected from the property yield anomalous values of Au, Ag, Cu, Pb, Zn, As, and Mo as well as Ba. Values range from below detection limits for all elements to 0.336 oz/ton Au; 10.0 oz/ton Ag; 0.19% As; 0.7% Cu; 4.6% Pb; 0.4% Zn; 0.066% Mo and 45% Ba.

Contour maps based on assay results suggest two types of control and distribution for mineralization (see Plates 4-12). North of the major drainage which bisects the property, the linear pattern of anomalous mineralization suggests a dominant structural influence over mineral distribution. South of the drainage, the pattern widens suggesting lithology is the dominant influence.

The geologic map (Plate 2) illustrates that north of the major drainage, structures which channeled hydrothermal fluids are hosted in the shales and siltstones of the Palmetto Formation. The lithologic character

of this facies was unfavorable to the intraformational migration of hydrothermal fluids and the precipitation of precious metals. Mineralization is primarily confined to structures in this area as a result. South of the major drainage the structures are hosted in the more permeable and reactive carbonate rocks resulting in the lateral migration of metal bearing fluids and dissemination of sulfides within this facies.

Some bias in the apparent distribution pattern of mineralization has been introduced by the sampling pattern. Sampling was limited to trenches and the distribution of trenches forms a pattern which is narrow in the north and broad in the south. Sampling on a grid pattern may eliminate this bias and reveal structural and lithologic associations not now evident.

Some striking comparisons can be made between mineralization on the Heavy Rock property and other existing orebodies located in Nevada. The Alligator Ridge Mine 48 miles northwest of Ely, the Atlanta District 50 miles northeast of Pioche and the Raine deposit 20 miles south of Carlin, all are hosted in carbonate rocks as is the mineralization on the Heavy Rock property. In addition, all of these orebodies are characterized on the surface by structurally controlled jasperoids and jasperoidal breccias, massive or open space filling crystalline barite and spotty anomalous arsenic and precious metal values. Barite has a noteworthy association with gold in these developed deposits and this association is particularly evident on the Heavy Rock property as defined by the composite Au, As, Ba and Zn isoline map (Plate 4).

GEOPHYSICAL SURVEY RESULTS

An Induced Polarization (IP) and Resistivity survey was conducted on the Heavy Rock property for CR Exploration by Phoenix Geophysics, Inc. of Wheat Ridge, Colorado. Drawing I.P.P.-U-5152, included in the appendix with their report, illustrates two linear anomalous zones which were identified. The zones are subparallel to bedding. The western one lies within the shale/siltstone faces and extends beyond the western limits of the survey lines. Phoenix suspects this anomaly may be due to disseminated syngenetic pyrite and carbonaceous material in this facies, but proposed three drilling targets to test the zone, if necessary. The eastern zone

lies within the calcareous shale/limestone facies and is interpreted as a target with greater potential. Three drilling targets have been recommended for this zone also.

The IP survey results augment the findings from surface sample assay data and geologic mapping. Outcrops of sulfide rich silicified limestone are exposed between the southern ends of the two anomalous zones which may represent fringes of sulfide bodies indicated by the survey. The depths recommended for exploration drilling range from 200 to 400 feet, comparable to the depths of orebodies in the similar deposits discussed above.

Interpretations of sulfide anomalies based on the IP survey data are illustrated on the geologic cross sections in the appendix. Also included are the spatial distribution and range of surface sample assay values for silver, arsenic, copper and zinc. These values correlate with the IP anomalies on some cross sections and with the gradational silty/limy facies contact on others. Some show no correlation. These relationships are probably real, however, a more even distribution of sample data would more clearly define them and provide a better insight to structural, lithologic and other controls for metal distribution.

Using data from the geologic cross sections, a structure-contour map of the tops of the IP anomalies was constructed which more graphically illustrates their three-dimensional shape. The northern half of the eastern anomaly appears as a slab-like body dipping to the east. The southern half is more flat lying and broader. This configuration agrees well with the attitude of the limy facies in the north and its broad exposure in the south, suggesting lithologic control over the distribution of metals in this anomaly.

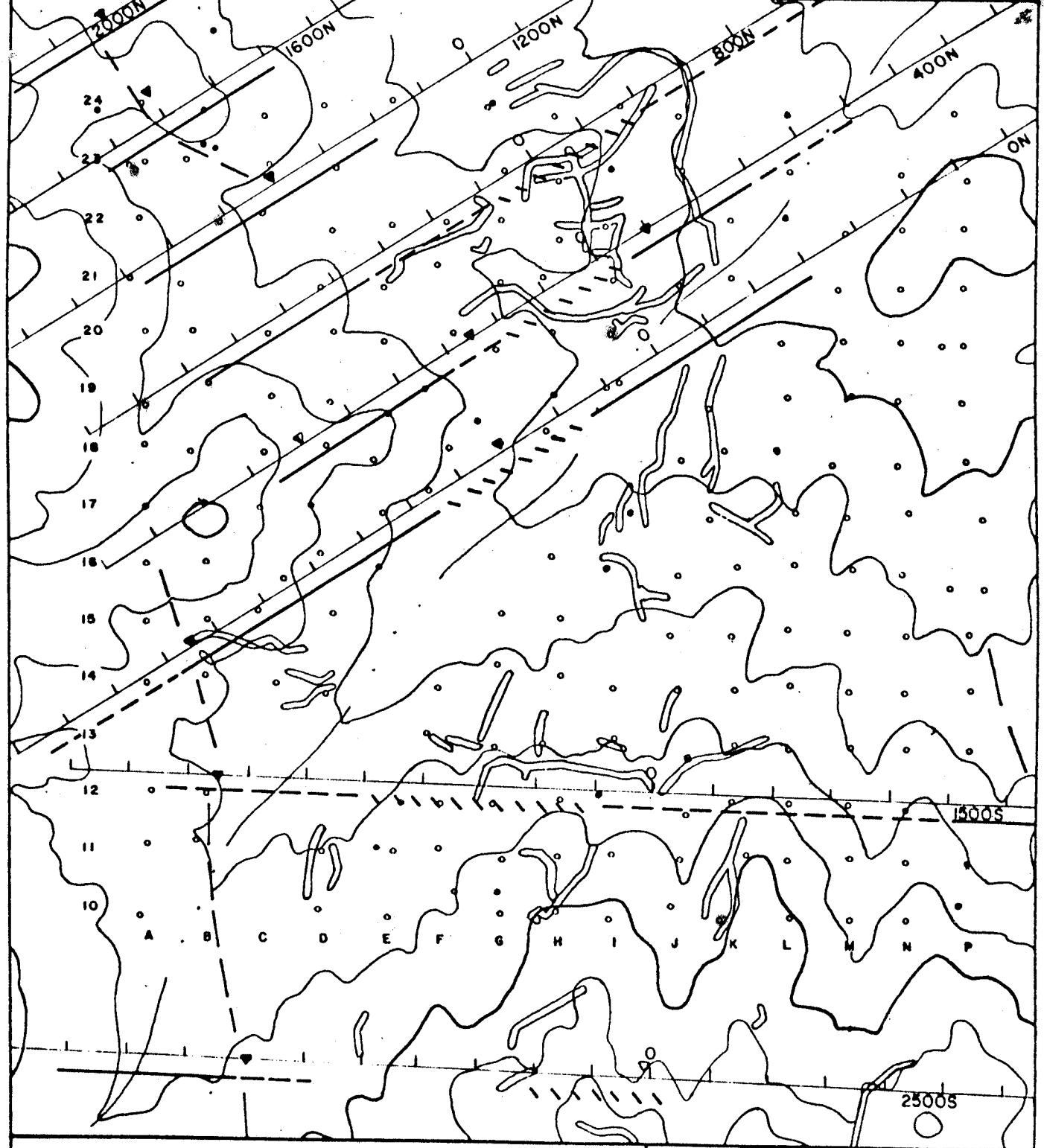
The western anomaly appears as a westward dipping slab over most of its extent. This configuration cross-cuts bedding and therefore lithology seems less likely to be the control for distribution here. This anomaly may be due to syngenetic carbon and pyrite as suggested by Phoenix Geophysics, or to other controls such as low lying structures developed during the intrusion of the Palmetto Pluton.

This map located in the Appendix, has been reproduced on vellum so that it may be overlain on the geologic map, Plate 2.

REFERENCES

Albers, J.P. and Stewart, J.H., 1972. Geology and Mineral Deposits of Esmeralda County, Nevada: Nevada Bureau of Mines and Geology Bull. 78, 80p.





N
 • 1984 SURFACE SAMPLE LOCALITY
 TRENCHES
 400N IP SURVEY LINE
 SCALE: 1" = 500'
 C.I. = 80'
METAL FACTOR
 - - - DEFINITE
 - - - PROBABLE
 - - - POSSIBLE
 ▽ RESISTIVITY LOW

HEAVY ROCK PROJECT
 GEOPHYSICS AND
 SURFACE SAMPLE GEOCHEMISTRY

CR EXPLORATION CO
 PO BOX 264
 ROUND MOUNTAIN, NV 89045

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

JOB NO. LKE 066

March 6, 1984

CONTRACT NO: A-1-84-2

C R Exploration Company
Attn: Brad Mills
P.O. Box 264
Round Mountain, Nevada 89045

Analysis of 196 Rock Chip Samples**FIRE ASSAY**

ITEM	SAMPLE NO.	Au (oz/T)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
1	HR A10	<.002	.6	60.	<5.	15.
2	HR A11	<.002	.7	110.	<5.	5.
3	HR A12	<.002	1.2	45.	<5.	<5.
4	HR A14	<.002	<.2	15.	5.	105.
5	HR A15	<.002	.2	10.	<5.	185.
6	HR A16	<.002	<.2	15.	<5.	80.
7	HR A17	<.002	<.2	15.	5.	30.
8	HR A18	<.002	.2	15.	10.	40.
9	HR A19	<.002	.4	30.	<5.	530.
10	HR A20	<.002	.6	55.	<5.	375.
11	HR A21	<.002	<.2	15.	<5.	10.
12	HR A22	<.002	.4	55.	10.	220.
13	HR A23	<.002	.8	45.	5.	420.
14	HR A23A	<.002	<.2	85.	<5.	1550.
15	HR A24	<.002	1.4	55.	5.	115.
16	HR B11	<.002	<.2	70.	<5.	15.
17	HR B12	<.002	<.2	25.	<5.	20.
18	HR B14	<.002	<.2	10.	10.	50.
19	HR B15	<.002	<.2	5.	10.	5.
20	HR B16	<.002	<.2	20.	<5.	10.
21	HR B17	<.002	<.2	15.	<5.	10.
22	HR B18	<.002	<.2	10.	10.	35.
23	HR B19	<.002	1.1	50.	<5.	740.
24	HR B20	<.002	.9	175.	10.	750.
25	HR B21	<.002	1.2	40.	5.	195.

JOB NO. LKE 066
 March 6, 1984
 PAGE 2

FIRE ASSAY

ITEM	SAMPLE NO.	Au (oz/T)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
26	HR B22	<.002	.6	60.	<5.	700.
27	HR B23	<.002	.8	50.	<5.	105.
28	HR B24	<.002	1.5	60.	15.	75.
29	HR C14	<.002	<.2	15.	<5.	50.
30	HR C15	<.002	<.2	10.	<5.	20.
31	HR C16	<.002	<.2	10.	<5.	<5.
32	HR C17	<.002	<.2	20.	5.	90.
33	HR C18	<.002	<.2	10.	<5.	15.
34	HR C19	<.002	.4	15.	<5.	40.
35	HR C20	<.002	1.3	50.	15.	95.
36	HR C22	<.002	1.4	105.	10.	75.
37	HR C23	.005	.6	55.	5.	225.
38	HR C24	<.002	.7	30.	10.	35.
39	HR D10	.002	<.2	15.	5.	105.
40	HR D11	<.002	1.2	130.	15.	405.
41	HR D14	<.002	<.2	20.	<5.	210.
42	HR D15	<.002	<.2	15.	<5.	100.
43	HR D16	<.002	<.2	10.	<5.	70.
44	HR D17	<.002	<.2	15.	<5.	35.
45	HR D18	<.002	<.2	15.	<5.	15.
46	HR D19	<.002	1.4	40.	20.	160.
47	HR D20	<.002	1.5	70.	15.	105.
48	HR D21	<.002	1.3	60.	40.	95.
49	HR D22	<.002	.9	55.	10.	70.
50	HR D23	<.002	.9	50.	10.	160.
51	HR D24	<.002	.2	70.	<5.	55.
52	HR E10	.004	<.2	35.	<5.	560.
53	HR E11	<.002	.8	115.	<5.	25.
54	HR E12	<.002	.2	110.	<5.	20.
55	HR E16	<.002	.2	35.	<5.	65.
56	HR E17	<.002	<.2	20.	<5.	125.
57	HR E18	<.002	.6	25.	30.	100.
58	HR E19	<.002	.8	50.	10.	165.
59	HR E20	<.002	1.6	40.	5.	90.
60	HR E21	<.002	.6	35.	5.	90.

JOB NO. LKE 066
 March 6, 1984
 PAGE 3

FIRE ASSAY

ITEM	SAMPLE NO.	Au (oz/T)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
61	HR E22	<.002	<.2	35.	5.	10.
62	HR E24	<.002	<.2	25.	<5.	25.
63	HR F10	<.002	.4	50.	10.	150.
64	HR F11	<.002	.8	25.	30.	20.
65	HR F12	<.002	<.2	15.	<5.	5.
66	HR F13	<.002	.2	20.	<5.	25.
67	HR F14	<.002	<.2	15.	<5.	5.
68	HR F17	<.002	.2	35.	<5.	200.
69	HR F18	<.002	.2	75.	5.	185.
70	HR F19	<.002	.8	40.	10.	40.
71	HR F20	<.002	.8	100.	5.	200.
72	HR F21	<.002	<.2	60.	<5.	15.
73	HR F22	<.002	<.2	45.	<5.	10.
74	HR G10	<.002	<.2	15.	5.	10.
75	HR G11	<.002	.6	50.	<5.	15.
76	HR G12	<.002	.6	45.	10.	50.
77	HR G13	.005	40.0	4150.	31500.	45.
78	HR G14	<.002	<.2	25.	40.	30.
79	HR G15	<.002	1.6	55.	165.	300.
80	HR G18	<.002	.6	50.	<5.	270.
81	HR G20	<.002	3.3	70.	15.	95.
82	HR G21	<.002	1.6	95.	10.	65.
83	HR G22	<.002	.6	70.	5.	20.
84	HR G23	<.002	<.2	25.	<5.	<5.
85	HR G24	<.002	6.6	790.	120.	355.
86	HR H10	<.002	.4	120.	10.	105.
87	HR H11	<.002	.2	35.	60.	415.
88	HR H12	<.002	<.2	40.	10.	55.
89	HR H13	<.002	.2	20.	<5.	5.
90	HR H14	<.002	<.2	15.	<5.	5.
91	HR H15	<.002	<.2	25.	<5.	35.
92	HR H16	<.002	<.2	30.	<5.	20.
93	HR H18	<.002	.6	135.	5.	95.
94	HR H19	<.002	1.0	155.	10.	145.
95	HR H20	<.002	<.2	35.	<5.	160.

JOB NO. LKE 066
 March 6, 1984
 PAGE 4

FIRE ASSAY

ITEM	SAMPLE NO.	Au (oz/T)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
96	HR H21	<.002	<.2	35.	<5.	20.
97	HR H22	<.002	.4	30.	10.	25.
98	HR H23	<.002	11.0	80.	85.	90.
99	HR H24	<.002	<.2	25.	5.	10.
100	HR I10	<.002	<.2	15.	<5.	20.
101	HR I11	<.002	1.0	25.	10.	65.
102	HR I12	.006	1.2	40.	25.	55.
103	HR I13	<.002	<.2	15.	<5.	10.
104	HR I14	.002	<.2	15.	<5.	20.
105	HR I15	<.002	<.2	85.	<5.	5.
106	HR I16	.003	<.2	10.	<5.	5.
107	HR I17	.007	<.2	20.	<5.	25.
108	HR I19	<.002	<.2	35.	<5.	215.
109	HR I19A	<.002	5.1	1500.	1900.	165.
110	HR I20	<.002	16.0	1250.	3550.	3900.
111	HR I21	<.002	.2	60.	20.	300.
112	HR I22	.004	.8	115.	15.	265.
113	HR I23	<.002	<.2	20.	<5.	10.
114	HR I24	<.002	<.2	50.	5.	20.
115	HR J10	<.002	<.2	25.	<5.	60.
116	HR J11	<.002	.4	35.	<5.	195.
117	HR J12	<.002	<.2	25.	<5.	20.
118	HR J13	.003	1.2	235.	50.	105.
119	HR J14	<.002	<.2	30.	<5.	40.
120	HR J15	<.002	<.2	15.	<5.	15.
121	HR J16	<.002	<.2	85.	<5.	95.
122	HR J18	<.002	<.2	25.	10.	5.
123	HR J21	<.002	<.2	20.	<5.	40.
124	HR J23	<.002	.4	20.	<5.	70.
125	HR J24	<.002	<.2	180.	<5.	40.
126	HR K10	<.002	.2	20.	180.	680.
127	HR K11	<.002	<.2	30.	<5.	40.
128	HR K12	<.002	<.2	20.	5.	25.
129	HR K13	<.002	.4	50.	<5.	170.
130	HR K14	<.002	.2	45.	5.	200.

JOB NO. LKE 066
March 6, 1984
PAGE 5

FIRE ASSAY

ITEM	SAMPLE NO.	Au (oz/T)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
131	HR K15	<.002	<.2	25.	<5.	5.
132	HR K16	<.002	<.2	35.	<5.	5.
133	HR K17	<.002	<.2	40.	5.	90.
134	HR K18	<.002	<.2	40.	<5.	10.
135	HR K19	<.002	<.2	20.	5.	55.
136	HR K21	<.002	<.2	25.	5.	90.
137	HR K22	<.002	<.2	40.	<5.	135.
138	HR L10	<.002	<.2	15.	5.	20.
139	HR L11	<.002	.2	15.	5.	10.
140	HR L12	<.002	.4	20.	10.	80.
141	HR L13	<.002	.4	20.	<5.	65.
142	HR L14	<.002	<.2	20.	<5.	50.
143	HR L15	<.002	<.2	35.	<5.	10.
144	HR L16	<.002	<.2	30.	<5.	15.
145	HR L17	<.002	.2	15.	<5.	25.
146	HR L18	.003	.2	35.	5.	25.
147	HR L19	<.002	.4	25.	40.	60.
148	HR L20	<.002	<.2	30.	5.	75.
149	HR L22	.004	<.2	15.	<5.	80.
150	HR L23	<.002	<.2	30.	<5.	95.
151	HR L24	.003	<.2	35.	<5.	105.
152	HR M10	<.002	<.2	15.	<5.	160.
153	HR M11	<.002	<.2	25.	5.	15.
154	HR M12	<.002	<.2	25.	<5.	120.
155	HR M13	<.002	.4	25.	10.	200.
156	HR M14	<.002	<.2	20.	<5.	<5.
157	HR M15	<.002	<.2	20.	<5.	5.
158	HR M16	<.002	<.2	10.	25.	30.
159	HR M17	<.002	<.2	20.	<5.	40.
160	HR M18	<.002	<.2	15.	<5.	35.
161	HR M19	<.002	<.2	160.	<5.	80.
162	HR M20	<.002	<.2	35.	<5.	85.
163	HR M21	<.002	<.2	20.	<5.	105.
164	HR M22	<.002	<.2	35.	<5.	100.
165	HR M23A	<.002	<.2	15.	<5.	40.

JOB NO. LKE 066
March 6, 1984
PAGE 6

FIRE ASSAY

ITEM	SAMPLE NO.	Au (oz/T)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
166	HR N10	<.002	<.2	15.	<5.	10.
167	HR N11	<.002	<.2	20.	<5.	35.
168	HR N12	<.002	<.2	35.	5.	95.
169	HR N13	<.002	.6	65.	15.	230.
170	HR N14	<.002	<.2	15.	15.	45.
171	HR N15	<.002	<.2	15.	15.	60.
172	HR N16	<.002	<.2	40.	<5.	60.
173	HR N17	<.002	<.2	35.	<5.	100.
174	HR N18	<.002	<.2	35.	<5.	95.
175	HR N19	.002	<.2	30.	<5.	95.
176	HR N20	<.002	<.2	15.	<5.	100.
177	HR N21	<.002	<.2	30.	20.	105.
178	HR N22	<.002	<.2	35.	10.	115.
179	HR N23	<.002	<.2	30.	<5.	110.
180	HR P10	.004	.6	40.	35.	15.
181	HR P11	<u>.004</u>	.2	15.	<5.	30.
182	HR P12	<.002	.4	100.	15.	385.
183	HR P13	<.002	<.2	35.	20.	20.
184	HR P14	<.002	<.2	20.	<5.	65.
185	HR P15	<.002	<.2	35.	<5.	100.
186	HR P16	<.002	<.2	35.	5.	100.
187	HR P16A	<.002	<.2	15.	<5.	25.
188	HR P17	<.002	<.2	50.	<5.	100.
189	HR P18	<.002	<.2	20.	<5.	100.
190	HR P19	<.002	<.2	30.	<5.	100.
191	HR P20	<.002	<.2	30.	15.	100.
192	HR P20A	<.002	<.2	25.	5.	35.
193	HR P21	<.002	<.2	30.	10.	110.
194	HR P22	<.002	<.2	40.	<5.	80.
195	HR P23	<.002	<.2	50.	<5.	90.
196	HR P24	<.002	<.2	35.	10.	75.

JOB NO. LKE 066
March 6, 1984
PAGE 7

ITEM	SAMPLE NO.	Mo (ppm)	As (ppm)	Sb (ppm)	Hg (ppm)	Ba (ppm)
1	HR A10	4.	10.	<2.	.02	1700.
2	HR A11	14.	5.	<2.	.03	530.
3	HR A12	8.	<5.	<2.	.09	650.
4	HR A14	4.	<5.	2.	.01	330.
5	HR A15	2.	<5.	<2.	.01	130.
6	HR A16	10.	<5.	<2.	.03	510.
7	HR A17	6.	<5.	<2.	.03	430.
8	HR A18	6.	<5.	2.	.02	1300.
9	HR A19	6.	<5.	<2.	.02	280.
10	HR A20	4.	<5.	2.	.03	1350.
11	HR A21	8.	<5.	<2.	.02	190.
12	HR A22	6.	<5.	11.	.01	970.
13	HR A23	6.	<5.	<2.	.02	700.
14	HR A23A	<2.	50.	4.	.03	190.
15	HR A24	<2.	5.	4.	.02	490.
16	HR B11	<2.	5.	<2.	<.01	2550.
17	HR B12	8.	<5.	<2.	.01	190.
18	HR B14	2.	<5.	<2.	.01	700.
19	HR B15	2.	<5.	<2.	<.01	500.
20	HR B16	4.	<5.	<2.	.04	90.
21	HR B17	6.	<5.	<2.	.01	210.
22	HR B18	4.	<5.	<2.	.01	830.
23	HR B19	6.	<5.	6.	.01	1350.
24	HR B20	<2.	20.	15.	.01	1500.
25	HR B21	8.	<5.	4.	.03	1050.
26	HR B22	6.	10.	8.	.02	510.
27	HR B23	<2.	10.	2.	.01	340.
28	HR B24	2.	5.	2.	.01	1350.
29	HR C14	6.	<5.	2.	.01	540.
30	HR C15	<2.	<5.	<2.	.02	170.
31	HR C16	10.	<5.	<2.	.02	2150.
32	HR C17	4.	<5.	<2.	.02	1750.
33	HR C18	6.	<5.	4.	.01	500.
34	HR C19	4.	<5.	<2.	.01	760.
35	HR C20	<2.	<5.	2.	.02	980.

JOB NO. LKE 066
March 6, 1984
PAGE 8

ITEM	SAMPLE NO.	Mo (ppm)	As (ppm)	Sb (ppm)	Hg (ppm)	Ba (ppm)
36	HR C22	<2.	10.	2.	.02	2050.
37	HR C23	<2.	15.	6.	.01	1450.
38	HR C24	<2.	<5.	4.	.01	1600.
39	HR D10	2.	<5.	2.	.01	130.
40	HR D11	4.	20.	2.	.01	365000.
41	HR D14	6.	<5.	<2.	.02	1350.
42	HR D15	6.	<5.	4.	.01	980.
43	HR D16	8.	<5.	<2.	.02	710.
44	HR D17	2.	<5.	<2.	.02	640.
45	HR D18	10.	<5.	<2.	.01	540.
46	HR D19	8.	<5.	14.	.02	810.
47	HR D20	<2.	<5.	4.	.02	990.
48	HR D21	6.	<5.	6.	.01	890.
49	HR D22	8.	<5.	2.	.02	1050.
50	HR D23	4.	<5.	<2.	.01	1200.
51	HR D24	<2.	<5.	8.	.01	2050.
52	HR E10	<2.	<5.	2.	.02	1500.
53	HR E11	6.	<5.	<2.	.01	11500.
54	HR E12	<2.	<5.	<2.	.01	12000.
55	HR E16	8.	<5.	<2.	.02	1150.
56	HR E17	2.	<5.	<2.	.02	1350.
57	HR E18	6.	<5.	<2.	.01	880.
58	HR E19	4.	<5.	4.	.01	760.
59	HR E20	6.	<5.	<2.	.01	1250.
60	HR E21	6.	<5.	4.	.01	1050.
61	HR E22	8.	<5.	2.	.01	1150.
62	HR E24	<2.	10.	8.	.02	330.
63	HR F10	<2.	<5.	<2.	<.01	4650.
64	HR F11	2.	<5.	<2.	.01	5500.
65	HR F12	2.	<5.	<2.	.01	120.
66	HR F13	2.	<5.	<2.	.01	1050.
67	HR F14	2.	<5.	<2.	<.01	2000.
68	HR F17	6.	<5.	<2.	.02	630.
69	HR F18	4.	5.	2.	.01	1650.
70	HR F19	<2.	<5.	6.	.01	1600.

JOB NO. LKE 066
March 6, 1984
PAGE 9

ITEM	SAMPLE NO.	Mo (ppm)	As (ppm)	Sb (ppm)	Hg (ppm)	Ba (ppm)
71	HR F20	<2.	<5.	4.	.01	1500.
72	HR F21	<2.	5.	2.	.01	1150.
73	HR F22	<2.	<5.	4.	.01	1400.
74	HR G10	6.	<5.	2.	.01	50.
75	HR G11	4.	<5.	<2.	.01	3500.
76	HR G12	4.	<5.	<2.	.02	4450.
77	HR G13	8.	700.	26.	.03	700.
78	HR G14	2.	<5.	<2.	.01	630.
79	HR G15	<2.	<5.	<2.	<.01	5450.
80	HR G18	8.	<5.	6.	<.01	1650.
81	HR G20	<2.	5.	8.	.02	1650.
82	HR G21	2.	<5.	<2.	.01	1500.
83	HR G22	4.	<5.	2.	.01	2000.
84	HR G23	8.	<5.	2.	.01	290.
85	HR G24	<2.	45.	65.	.02	5400.
86	HR H10	6.	<5.	4.	.01	4700.
87	HR H11	4.	30.	4.	.01	2100.
88	HR H12	4.	<5.	2.	.01	2450.
89	HR H13	2.	<5.	<2.	.01	1700.
90	HR H14	2.	<5.	<2.	.01	190.
91	HR H15	2.	<5.	2.	<.01	760.
92	HR H16	<2.	<5.	<2.	.01	1250.
93	HR H18	<2.	<5.	6.	.01	1550.
94	HR H19	4.	<5.	<2.	.03	3650.
95	HR H20	6.	<5.	<2.	.01	340.
96	HR H21	8.	<5.	4.	.02	500.
97	HR H22	<2.	<5.	6.	.01	2200.
98	HR H23	<2.	10.	14.	.02	15000.
99	HR H24	4.	<5.	70.	.02	420.
100	HR I10	2.	<5.	2.	.02	240.
101	HR I11	<2.	<5.	4.	.02	140.
102	HR I12	<2.	<5.	2.	.01	5000.
103	HR I13	4.	<5.	2.	<.01	2550.
104	HR I14	<2.	<5.	<2.	<.01	2450.
105	HR I15	2.	<5.	<2.	<.01	2500.

JOB NO. LKE 066
March 6, 1984
PAGE 10

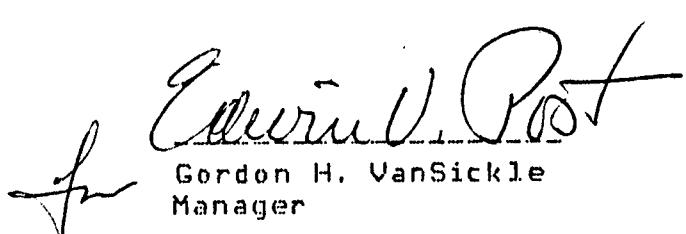
ITEM	SAMPLE NO.	Mo (ppm)	As (ppm)	Sb (ppm)	Hg (ppm)	Ba (ppm)
106	HR I16	2.	<5.	<2.	.01	40.
107	HR I17	2.	<5.	<2.	.02	420.
108	HR I19	10.	<5.	4.	.01	480.
109	HR I19A	<2.	140.	30.	.02	176000.
110	HR I20	<2.	620.	70.	.09	197000.
111	HR I21	4.	<5.	4.	.02	3750.
112	HR I22	6.	<5.	4.	.01	780.
113	HR I23	6.	<5.	<2.	.01	1050.
114	HR I24	<2.	<5.	<2.	.01	2950.
115	HR J10	<2.	<5.	2.	.02	40.
116	HR J11	<2.	<5.	<2.	.01	180.
117	HR J12	<2.	<5.	<2.	.01	3150.
118	HR J13	<2.	20.	8.	.02	71500.
119	HR J14	<2.	<5.	4.	.02	1100.
120	HR J15	<2.	<5.	<2.	.01	700.
121	HR J16	<2.	<5.	4.	<.01	220.
122	HR J18	4.	<5.	2.	.01	1600.
123	HR J21	6.	10.	4.	.02	270.
124	HR J23	8.	45.	4.	.10	220.
125	HR J24	<2.	10.	<2.	.01	2700.
126	HR K10	6.	20.	2.	.02	40.
127	HR K11	2.	<5.	4.	.02	4850.
128	HR K12	4.	<5.	6.	.01	290.
129	HR K13	4.	<5.	2.	.01	140.
130	HR K14	2.	<5.	4.	.01	280.
131	HR K15	2.	<5.	2.	.01	40.
132	HR K16	4.	5.	<2.	.01	1700.
133	HR K17	2.	5.	<2.	.01	2100.
134	HR K18	8.	15.	11.	.01	330.
135	HR K19	<2.	<5.	<2.	.01	150.
136	HR K21	<2.	5.	<2.	.01	580.
137	HR K22	<2.	<5.	2.	.01	520.
138	HR L10	<2.	<5.	<2.	.01	460.
139	HR L11	2.	<5.	<2.	.01	300.
140	HR L12	6.	<5.	4.	.02	340.

JOR NO. LKE 066
March 6, 1984
PAGE 11

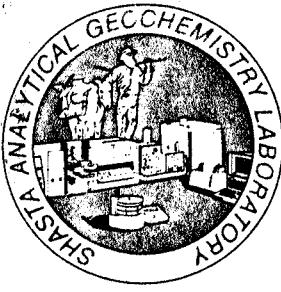
ITEM	SAMPLE NO.	Mo (ppm)	As (ppm)	Sb (ppm)	Hg (ppm)	Ba (ppm)
141	HR L13	8.	5.	2.	.01	1150.
142	HR L14	4.	<5.	4.	.01	2300.
143	HR L15	20.	<5.	4.	.01	1150.
144	HR L16	<2.	<5.	<2.	.01	350.
145	HR L17	6.	<5.	<2.	.01	100.
146	HR L18	2.	<5.	2.	.02	200.
147	HR L19	2.	<5.	2.	.02	340.
148	HR L20	2.	5.	<2.	<.01	400.
149	HR L22	<2.	<5.	<2.	.01	480.
150	HR L23	<2.	5.	<2.	<.01	600.
151	HR L24	<2.	5.	<2.	.01	630.
152	HR M10	<2.	<5.	<2.	.01	330.
153	HR M11	10.	<5.	<2.	.01	1300.
154	HR M12	6.	<5.	2.	.02	230.
155	HR M13	4.	<5.	<2.	.01	90.
156	HR M14	4.	<5.	<2.	.02	50.
157	HR M15	8.	15.	<2.	.03	90.
158	HR M16	4.	<5.	4.	.01	640.
159	HR M17	10.	5.	4.	.02	480.
160	HR M18	6.	<5.	<2.	.01	550.
161	HR M19	<2.	15.	<2.	.01	460.
162	HR M20	<2.	10.	<2.	.02	370.
163	HR M21	<2.	<5.	<2.	.01	490.
164	HR M22	<2.	<5.	2.	.02	520.
165	HR M23A	<2.	<5.	<2.	.01	40.
166	HR N10	<2.	10.	<2.	.01	240.
167	HR N11	<2.	15.	2.	.01	100.
168	HR N12	6.	5.	2.	.04	120.
169	HR N13	4.	5.	4.	.02	80.
170	HR N14	4.	10.	2.	.02	380.
171	HR N15	4.	20.	2.	.02	220.
172	HR N16	<2.	10.	<2.	.01	360.
173	HR N17	<2.	<5.	<2.	.01	330.
174	HR N18	<2.	5.	<2.	.02	350.
175	HR N19	<2.	5.	20.	.02	450.

JOB NO. LKE 066
March 6, 1984
PAGE 12

ITEM	SAMPLE NO.	Mo (ppm)	As (ppm)	Sb (ppm)	Hg (ppm)	Ba (ppm)
176	HR N20	<2.	<5.	<2.	.01	450.
177	HR N21	<2.	5.	2.	.02	400.
178	HR N22	<2.	<5.	<2.	.01	380.
179	HR N23	<2.	<5.	<2.	.01	370.
180	HR P10	30.	15.	<2.	.02	290.
181	HR P11	4.	20.	4.	.03	1200.
182	HR P12	10.	25.	<2.	.03	1450.
183	HR P13	4.	<5.	2.	.02	190.
184	HR P14	<2.	<5.	4.	.02	470.
185	HR P15	<2.	<5.	6.	.01	330.
186	HR P16	2.	<5.	<2.	.02	430.
187	HR P16A	2.	<5.	<2.	<.01	50.
188	HR P17	<2.	<5.	4.	.03	1050.
189	HR P18	<2.	<5.	<2.	.01	430.
190	HR P19	<2.	<5.	<2.	.01	660.
191	HR P20	<2.	5.	<2.	.02	410.
192	HR P20A	4.	<5.	2.	.01	40.
193	HR P21	<2.	<5.	<2.	.02	420.
194	HR P22	<2.	<5.	<2.	.02	1100.
195	HR P23	<2.	<5.	<2.	.03	800.
196	HR P24	2.	<5.	<2.	.01	400.


Gordon H. VanSickle
Manager

cc: ✓ Richard A. Jeanne



SHASTA ANALYTICAL GEOCHEMISTRY LABORATORY

1240 Redwood Boulevard, Redding, California 96003 (916) 244-4441

File copy
CDV Paper pk
IS

Date: July 10, 1984
Client: Exxon Minerals
50 Freeport Blvd. #24
Sparks, Nevada 89431
Att: R.G. Cuffney
Date Received: 6/4/84

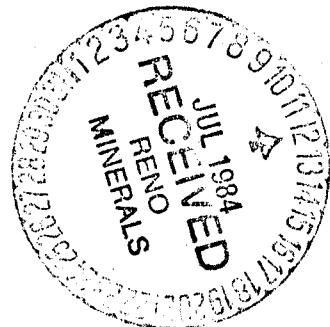
No. of Samples/Job No.: 37/3131
Analytical Methods: Ba (A.A.)

Results in oz./ton:
Results in ppm: Ba

Sample # Ba

HR-3	5530
4	2390
5	191000
6	5400
7	640
8	1120
9	1020
10	1420
11	3340

Piper Peak



By:

Bruce Knowlton
Fire Assayer

By: Brendan McMahon

Brendan McMahon
Analytical Geochemist

Verified:


Vern Peterson
Laboratory Manager

ND: No Detection

NA: Not Analyzed

T: Trace

MS: Missing Sample

IS: Insufficient Sample

1 Troy oz/ton: 34.286 ppm

1 ppm: 0.0292 Troy oz/ton

This analytical report is the confidential property of the above mentioned client and for the protection of this client and ourselves, we reserve the right to forbid publication or reproduction of this report or any part thereof without written permission.

(-) indicates trace

Blank indicates no data available or sample not run for that element

Sample #	oz/ton		ppm or % Where Indicated					
	Au	Ag	As	Cu	Mo	Pb	Zn	Ba
6015			5	25	7	130	10	150
6033			85	35	4	20	20	0.13%
6101			15	100			40	650
6102			5	95			30	0.10%
6103			10	100			105	910
6104			40	85			305	0.14%
6105			15	230			85	960
6106			15	220			80	0.16%
6107			10	85			25	0.16%
6108			10	65			70	0.13%
6109			15	360			465	0.16%
6110	-	.93	70	760			0.95%	30.1%
6111	.002	.12	5	65			275	0.19%
6112			40	310			70	0.11%
6113	.003	-	15	70			45	0.12%
6114			25	50			50	850
6115			20	50			50	635
6116			20	35			55	610
6117			15	40			60	735
6118			15	50			30	575
6119			25	180			25	925
6120			10	110			40	575
6121			5	85			30	535
6122			15	60			40	700
6123	-	.11	5	95			40	475
6124	-	.11	15	155			10	435
6125			25	55			15	535
6126	.001	-	15	75			35	350
6127			10	45			20	910
6128	.001	.16	45	35			460	975
6129	.001	.20	80	120			140	985
6130			20	70			30	0.14%
6131			5	105			35	960
6132	-	.20	10	30			15	0.16%
6133	-	.13	15	60			40	0.19%
6134			10	45			15	0.35%
6135	-	.02	5	40				
6136	-	.14	10	95	2	25	65	560
6137	.002	.08	5	40	1	20	70	700
6138	.002	.08	5	40	-	20	70	775
6139	-	.08	5	130	2	100	20	0.13%
6140	-	.08	5	65	5	25	10	540
6141	.002	.12	5	85	2	15	30	375
6142	-	-	5	30	3	30	25	840
6143	-	.02	10	85	8	10	10	400
6144	.002	.08	10	80	3	40	20	810
6145	.002	.06	25	195	15	15	35	700

Sample #	oz/ton		ppm or % Where Indicated					
	Au	Ag	As	Cu	Mo	Pb	Zn	Ba
6146	-	.08	30	110	8	20	55	750
6147	.002	-	10	60	6	5	10	390
6148	-	-	5	30	4	30	10	710
6149	-	.04	5	85	7	20	10	0.12%
6150	-	.08	50	0.11%	20	15	15	325
6151	.002	-	95	0.10%	59	15	20	160
6152	-	.12	5	110	4	15	10	375
6153	-	.12	-	70	1	15	10	0.23%
6154	-	-	10	70	3	15	15	450
6155	-	.22	10	65	3	15	10	500
6156			5	135	1	15	20	500
6157			5	70	2	30	30	910
6158			5	170	2	20	25	0.11%
6159			5	130	4	25	25	0.10%
6160			5	90	3	80	15	0.13%
6161			5	60	-	35	50	0.14%
6162			10	145	5	15	10	340
6163			10	325	4	15	15	175
6164			15	185	5	15	20	160
6165			15	115	1	25	105	300
6166			5	110	1	25	20	0.13%
6167	-	-	-	55	6	15	20	940
6168	-	.08	-	85	5	20	15	810
6169	-	-	5	80	3	30	80	950
6170	-	.10	-	35	1	30	35	325
6171	-	.12	-	90	1	15	25	360
6172	-	.12	5	90	3	30	30	350
6173	-	.10	10	195	3	15	20	-
6174	-	-	5	60	1	80	135	390
6175			10	125	3	25	35	310
6176			15	215	-	20	20	210
6177			15	195	1	25	20	200
6178	-	.08	45	0.11%	5	130	45	0.13%
6179	-	.06	10	50	1	25	20	375
6180			20	320	3	10	20	-
6181			15	195	2	30	40	160
6182			15	160	2	30	30	575
6183	-	.12	5	85	3	25	35	525
6184	-	.14	5	95	6	15	30	235
6185	-	.28	15	170	7	15	20	535
6186	-	.16	5	80	2	25	25	350
6187			10	80	4	15	25	340
6188			35	115	4	15	20	890
6189	-	.04	90	125	10	20	235	200
6190	.002	.06	155	210	12	20	30	260
6191	.002	-	35	115	6	10	20	175
6192	-	.14	85	60	8	15	50	260
6193	-	.12	60	130	5	10	25	450
6194	-	-	70	110	7	10	70	550
6195	.002	.06	185	250	15	10	190	510
6196	-	-	90	360	24	10	290	710

Sample #	oz/ton		ppm or % Where Indicated					
	Au	Ag	As	Cu	Mo	Pb	Zn	Ba
6198	.002	.008	65	175	20	35	40	310
6199			80	85	23	15	35	275
6200			75	155	14	15	30	350
6201			60	80	10	20	110	300
6202			30	60	4	10	10	340
6197			30	105	10	10	10	275
6203			25	70	2	10	15	370
6204	-	.10	15	105	4	10	45	960
6205	-	.08	5	90	1	20	35	640
6206			10	105	2	25	50	825
6207			5	100	2	80	65	0.14%
6208			10	100	4	10	15	0.16%
6209	.002	.12	30	60	1	10	35	0.11%
6210	-	.18	5	40	2	10	15	375
6211	-	.18	10	100	3	10	10	0.12%
6613			40	95	6	15	25	750
6214			35	125	2	10	15	750
6215	-	.24	10	35	3	25	15	0.12%
6216	-	.06	10	125	2	15	25	760
6217	-	.08	25	45	5	15	20	860
6218	-	.40	25	175	10	595	0.12%	0.25%
6219	-	.36	30	195	3	760	660	0.65%
6220	-	7.82	165	0.30%	78	1.65%	0.40%	30.1%
6221	-	.88	35	855	23	0.94%	0.20%	33.8%
6222	.002	3.66	55	0.17%	84	2.64%	0.18%	39.4%
6223	-	3.64	65	0.13%	18	1.30%	0.16%	34.4%
6224	-	5.66	35	0.12%	0.066%	4.63%	0.42%	43.5%
6225	.002	5.82	190	0.18%	45	3.65%	0.17%	44.8%
6226	-	10.06	0.047%	0.70%	25	1.92%	435	13.0%
6227	-	.08	15	75	4	25	10	0.19%
6228	.002	.18	40	90	8	75	70	0.11%
6229	.020	.36	75	195	14	495	215	0.12%
6230	-	.10	5	35	2	15	15	0.15%
6231	.002	.02	40	90	2	50	25	775
6232	.336	9.4	145	0.39%	10	3.58%	40	19.5%
6233	-	-	20	50	5	85	30	0.20%
6234	.008	.07	30	75	3	50	35	0.15%
6235	.004	.44	0.19%	55	8	815	600	0.10%
6236	-	-	10	75	11	25	15	775
6237	-	.12	20	125	9	305	0.10%	0.18%
6238	.008	5.27	175	0.28%	5	2.82%	0.23%	36.1%
6239	-	.18	35	190	5	0.12%	0.16%	0.25%
6240	-	▲	15	75	8	70	255	660
6241	-	.14	30	130	3	650	300	490
6242	-	.04	10	110	13	35	30	575
6243	-	2.62	5	50	8	20	20	425
6244	-	.10	5	40	10	15	15	590
6245	-	.12	20	55	15	20	15	350
6246	-	-	10	75	6	30	20	0.10%
6247	-	.06	30	75	9	10	115	425
6248	-	.14	20	135	9	30	650	460

Sample #	oz/ton		ppm or % Where Indicated					
	Au	Ag	As	Cu	Mo	Pb	Zn	Ba
6249	-	-	35	120	7	20	45	750
6250	-	-	5	45	2	20	20	0.10%
6251	-	-	10	75	8	10	25	0.21%
6252	-	.30	35	110	10	5	10	0.11%
6253	-		40	225	13	5	20	0.14%
6254	-	.12	10	105	21	20	10	0.26%
6255	-	.10	10	35	2	10	40	690
6256	-	-	10	25	6	15	20	510
6257	-	.12	20	50	7	30	210	575
6258	-	.06	50	30	7	45	260	0.10%
6259	-	-	70	40	23	20	125	490
6260	-	.18	115	55	4	20	75	725
6261	-	-	60	70	2	20	70	610
6262	-	.94	30	75	1	25	70	610
6263	-	-	65	65	1	15	70	675
6264	-	-	50	60	2	40	90	940
6265	-		40	60	2	30	40	575
6266	-	1.14	55	85	4	45	50	0.10%
6267	.002	.16	110	75	3	20	35	640
6268	.002	-	70	70	3	30	25	900
6269	.002	-	25	45	1	10	40	725
6270	.008	.19	45	80	2	15	10	500
6271	.002	.22	80	185	4	30	20	625
6272	.002	.14	95	75	5	60	40	675
6273	-	.08	20	150	4	20	20	0.11%
6274	-	.04	30	50	3	20	25	0.11%
6275	-	.06	10	70	2	20	30	0.11%
6276	-		5	75	4	20	40	0.10%
6277	-		20	45	3	15	20	875
6278	-		10	45	2	15	20	900
6279	-		20	55	2	20	25	0.10%
6280	-		10	60	3	15	15	775
6281	-		30	65	10	30	20	925
6282	-		15	90	15	35	45	860
6283	-	.14	45	195	5	240	210	0.13%
6284	-	.22	10	105	12	30	25	735
6285	-	.32	5	165	2	345	0.11%	135
6286	-	.10	20	105	17	25	25	485
6287	-	.28	40	125	10	20	15	550
6288	-	.26	20	115	16	25	20	310
6289	-	.30	15	155	10	20	20	460
6290	-	.30	20	110	9	30	50	550
6291	-	.02	10	80	13	15	20	400
6292	-	.34	10	115	8	20	20	650
6293	-	.20	5	45	3	15	15	0.17%
6294	-	.18	5	50	2	20	20	0.11%
6295	.024	.16	5	35	1	15	10	0.13%
6296	.026	.35	5	65	2	15	15	0.11%
6297	-	.20	-	85	11	20	15	360
6298	-	.10	15	215	20	25	15	275
6299	.008	.25	5	75	6	25	20	690

<u>Sample #</u>	<u>oz/ton</u>		<u>ppm or % Where Indicated</u>					
	<u>Au</u>	<u>Ag</u>	<u>As</u>	<u>Cu</u>	<u>Mo</u>	<u>Pb</u>	<u>Zn</u>	<u>Ba</u>
6300	-	-	5	80	16	25	20	550
6690			-	25			120	0.32%
7000			40	5	4	35	30	960
7001			20	85			35	800
7002			15	165			55	0.11%
7003			15	105			45	650
7004			15	115			25	850
7005			10	130			35	500
7006			25	135			100	550
7007			10	100			90	450
7008			20	100			95	550
7009			70	100			245	0.14%
7010			20	70			85	700
7011			-	70			25	650
7012			-	150			25	750
7013			5	175			35	750
7014			-	80			20	700
7015			5	90			10	550
7016			40	85			15	600
7017			-	130			20	400
7018			-	110			15	350
7019			-	140			20	800
7020			-	115			20	0.15%
7022	-	.18	55	625	13	355	355	1.10%
7023			55	325			365	0.26%
7024			15	115			100	600
7025			-	125			495	650
7026			45	650			665	0.37%
7027			10	145			135	0.15%
7028			30	155			235	0.12%
7029			85	345			915	0.15%
7030			25	155			220	0.90%
7031	-	.12	15	165			250	560
7032	-	.36	10	185			285	600
7033	-	.22	10	150			135	425
7034	-	.28	-	180			115	0.10%
7035	-	.10	-	80			75	0.28%
7036	-	.08	-	95			95	0.42%
7037			-	95	12	10	45	410
7038	-	.10	-	105			20	360
7039	-	.04	-	105			90	4.10%
7040	-	.08	-	110			165	9.50%
7041	-	.16	5	115			65	725
7042	-	.22	10	185			335	0.17%
7043	-	-	55	540			260	15.2%
7044	-	.20	55	480			245	3.40%
7045	-	.18	-	125			80	385
7046	-	.26	-	55			25	710
7047	-	.16	-	100			20	810
7048	-	-	-	75			15	335
7049	-	.44	-	145			20	0.15%

<u>Sample #</u>	<u>oz/ton</u>		<u>ppm or % Where Indicated</u>					
	<u>Au</u>	<u>Ag</u>	<u>As</u>	<u>Cu</u>	<u>Mo</u>	<u>Pb</u>	<u>Zn</u>	<u>Ba</u>
7050	-	.26	5	120			15	385
7051	-	-	5	60			15	950
7052	.002	.06	20	165			20	785
7053	.004	.20	30	210			25	925
7054	-	.4	10	100			60	0.13%
7055			5	120			40	975
7056	-	.08	10	70			45	0.19%
7057	-	.16	40	100			35	0.12%
7058	-	.24	10	125			50	0.14%
7059	-	.06	215	90			50	0.23%
7060	-	.32	25	80			60	485
7061	-	.16	15	90			60	425
7062	-	.08	15	55			70	500
7063	-	.02	5	120			35	360
7064	-	-	5	55			45	285
7065	-	-	40	80			115	500
7066	-	.06	35	100			65	525
7067	-	.18	35	60			75	475
7068	-	.20	45	130			165	660
7069	.002	.16	100	95			250	0.10%
7070	-	.18	50	105			120	0.12%
7071	-	.30	25	90			125	0.19%
7072	-	.26	40	175			225	0.21%
7073	-	.18	45	70			90	660
7074	-	.10	30	50			55	675
7075	-	.20	25	55			75	725
7076	-	.32	25	85			155	875
7077	-	.20	70	60			125	625
7078	-	.24	30	70			65	700
7079	-	.10	35	110			70	585
7080	-	.18	15	100			15	450
7081	-	.18	15	105			15	410
7082			10	110			15	525
7083			10	140			20	925
7084			5	80	5	10	35	700
7085			5	115			305	0.13%
7086			-	135			535	0.25%
7087			15	120			950	0.35%
7088			5	120			400	0.18%
7089			120	730			0.15%	10.0%
7090			5	55			110	0.60%
7091			-	40			160	0.12%
7092		0.087%	0.16%				0.40%	6.33%
7093			10	60			290	0.12%
7094			120	715			710	15.5%
7095	-	.30	15	275			435	2.00%
7096	-	.22	20	250			300	0.40%
7097	-	.24	25	165			200	0.21%
7098	-	-	25	255			220	0.45%
7099	-	.26	50	320			405	0.60%
7100	-	.40	35	270	11	100	135	0.28%

<u>Sample #</u>	<u>oz/ton</u>		<u>ppm or % Where Indicated</u>					
	<u>Au</u>	<u>Ag</u>	<u>As</u>	<u>Cu</u>	<u>Mo</u>	<u>Pb</u>	<u>Zn</u>	<u>Ba</u>
7101	-	.54	35	460	9	335	370	0.40%
7102	-	.14	20	205	9	170	245	0.32%
7103	-	.28	10	140	5	45	105	0.13%
7104	-	-	5	110	5	20	100	900
7105	-	.18	45	535	12	195	355	1.65%
7106	.002	.18	10	175	11	120	255	0.11%
7107	.002	.50	-	100	2	20	20	0.16%
7108	-	.08	5	145	5	25	25	0.15%
7109	-	.12	10	110	12	60	40	0.38%
7110	.002	.20	5	140	3	15	25	0.28%
7111	-	.24	10	150	8	25	90	0.20%
7112	-	.02	20	185	2	30	70	0.14%
7113	-	.14	30	195	5	20	80	0.13%
7114	-	.66	15	135	.6	20	115	0.23%
7115	-	.24	40	350	12	15	80	0.16%
7116	-	.18	5	150	7	15	30	0.18%
7117	-	.16	10	100	7	15	20	0.13%
7118	-	-	10	100	4	15	20	0.13%
7119	-	.10	15	245	7	10	35	0.13%
7120	-	.08	5	115	6	10	50	0.55%
7121	-	-	25	205	10	20	630	0.46%
7122	-	.24	30	245	11	20	280	0.19%
7123	-	.18	25	145	9	15	95	0.15%
7124	-	.10	25	175	9	15	125	0.13%
7125	-	-	15	170	7	15	175	0.55%
7126	-	.28	15	235	6	20	395	0.12%
7127	-	.22	25	265	8	25	435	0.12%
7128	-	1.2	135	0.14%	15	0.21%	645	22.5%
7130	-	.22	10	65	2	25	500	0.18%
7131	-	.30	5	20	2	35	140	0.31%
7132	-	.16	5	45	2	30	105	0.21%
7133	-	-	10	65	1	25	105	0.24%
7134	-	.10	5	45	4	30	80	0.18%
7135	-	.22	10	70	2	25	110	0.18%
7136	-	.22	5	30	2	30	65	0.21%
7137	-	.12	5	35	4	25	25	0.14%
7138	-	.22	-	55	5	20	25	0.11%
7139	-	.16	-	45	5	15	170	675
7140	-	.06	5	75	1	20	615	0.11%
7141	-	.20	5	125	3	15	415	940
7142	-	.18	-	60	8	15	350	0.13%
7143	-	-	5	50	8	15	175	825
7144	-	.5	5	95	3	15	495	840
7145	.056	.28	10	190	3	20	390	0.12%
7146	-	.18	10	55	2	50	75	0.45%
7147	-	.06	5	15	5	45	20	0.58%
7148	-	.40	-	15	1	45	20	0.50%
7149	-	-	-	15	1	40	15	0.83%
7150	-	.04	-	25	1	30	20	0.51%
7151	-	.20	-	55	1	35	45	0.45%
7152	-	-	-	70	1	25	70	0.36%

<u>Sample #</u>	<u>oz/ton</u>		<u>ppm or % Where Indicated</u>					
	<u>Au</u>	<u>Ag</u>	<u>As</u>	<u>Cu</u>	<u>Mo</u>	<u>Pb</u>	<u>Zn</u>	<u>Ba</u>
7153	-	.14	5	45	1	25	75	0.34%
7154	-	.30	-	30	1	35	30	0.74%
7155	-	-	-	50	2	35	80	0.43%
7156	-	-	-	85	2	10	110	0.31%
7157	.004	.16	5	70	2	20	120	0.41%
7158	.002	.10	5	55	1	20	60	0.44%
7159	-	.16	5	170	2	20	490	0.41%
7160	-	.26	5	170	1	25	465	0.34%
7161	-	.18	5	65	1	30	65	0.39%
7162	.002	.20	-	10	-	45	25	0.59%
7163	.002	.22	-	10	-	40	15	0.56%
7164	-	.24	-	20	-	40	20	0.47%
7165	-	.60	-	20	-	35	75	0.48%
7166	.002	.22	-	35	-	30	95	0.44%
7167	-	-	-	50	1	25	25	0.28%
7168	.002	.16	5	270	9	30	345	0.27%
7169	.002	.18	5	190	2	25	280	0.17%
7170	.002	.32	10	310	4	30	265	0.26%
7171	.002	.22	5	290	5	35	245	0.25%
7172	-	-	10	200	3	30	395	0.17%
7173	-	.08	10	200	3	30	355	0.27%
7174	-	.26	65	450	3	325	325	1.50%
7175	0.24	.56	135	770	3	0.17%	850	6.89%
7176	0.12	.33	120	265	2	930	390	0.95%
7177	-	.24	95	160	2	195	315	0.34%
7178	-	-	20	140	1	270	180	1.10%
7179	.006	-	205	280	2	490	235	3.75%
7180			105	0.21%	3	0.47%	0.29%	29.5%
7181			25	90	20	25	40	0.17%
7182			15	85	11	20	40	0.20%
7183	-	.06	20	90	10	25	35	0.19%
7184			30	90	6	25	50	0.19%
7185			60	100	11	25	85	0.16%
7186	-	.12	40	80	5	25	45	0.20%
7187	.002	.22	15	195	8	30	180	980
7188	-	.29	25	235	12	30	770	725
7189	-	.16	25	200	20	25	505	0.10%
7190	-	.16	15	135	16	30	405	950
7192	-	-	25	165	22	20	515	0.11%
7193	-	.16	10	150	17	20	110	0.14%
7194	-	.16	10	145	20	35	150	0.13%
7195	-	.14	5	200	19	25	340	0.12%
7196	-	.08	15	250	20	30	430	950
7197	-	.10	10	185	16	25	220	900
7198	-	.08	5	90	9	20	20	0.12%
7199	-	.10	10	120	8	25	40	0.18%
7200			15	130	13	15	130	425
7202A			5	125	6	20	60	0.14%
7202B			75	5	10	25	20	900
7203		0.038%		65	11	15	50	835
7204		0.058%		25	15	20	120	375

<u>Sample #</u>	<u>oz/ton</u>		<u>ppm or % Where Indicated</u>					
	<u>Au</u>	<u>Ag</u>	<u>As</u>	<u>Cu</u>	<u>Mo</u>	<u>Pb</u>	<u>Zn</u>	<u>Ba</u>
7207			85	10	14	20	25	0.12%
7209			0.048%	30	13	15	45	760
7212			35	5	5	15	15	0.13%
7912			10	10			70	0.17%
7940			5	5			35	0.15%
8000			10	-			100	0.17%
8001	-	-	10	145	13	35	70	0.13%
8003	-	-	5	100	7	45	45	0.19%
8004	-	-	5	95	9	25	45	0.22%
8005	-	.08	10	95	9	30	60	0.20%
8006	-	-	10	135	7	20	215	0.18%
8007	-	.08	-	100	5	20	80	660
8008	-	-	5	90	9	20	40	375
8009	-	-	5	135	4	20	150	240
8010	-	.10	5	75	6	25	245	350
8011	-	.04	15	135	3	45	915	650
8012	-	-	5	105	8	30	190	975
8014	-	-	30	145	9	100	605	450
8015	-	.08	65	245	7	175	955	790
8016	.002	-	20	190	5	40	470	0.11%
8017	-	.10	5	105	5	30	195	675
8018	-	-	5	110	8	70	220	0.15%
8019	.002	.12	-	105	8	20	250	0.10%
8020	-	.10	5	145	5	35	235	0.14%
8021	-	.10	5	135	7	25	635	0.16%
8022	-	.08	10	160	13	25	865	0.14%
8023	-	.20	10	150	10	20	0.10%	2.00%
8024	-	.06	10	135	8	20	0.14%	840
8025	-	.16	10	135	5	30	0.13%	0.19%
8026	-	.10	10	130	5	25	0.14%	0.14%
8027	-	.10	25	185	19	25	0.14%	0.13%
8028	-	.24	20	120	9	25	970	0.18%
8029	-	.14	25	195	15	20	650	0.16%
8030	-	.14	10	115	14	20	160	0.20%
8031	.006	.01	10	130	12	25	190	0.32%
8032	-	.10	10	130	9	25	670	0.21%
8033	-	-	15	135	14	25	795	0.19%
8034	-	.12	0.041%	200	26	30	500	700
8035	-	.04	65	220	19	30	595	860
8036	-	-	-	120	6	20	40	0.20%
8037	-	-	-	90	15	20	25	0.15%
8038	.002	.16	-	140	11	20	25	0.17%
8040	-	-	-	110	14	35	30	0.20%
8041	-	-	-	110	13	20	20	950
8042	-	-	5	105	20	20	20	0.13%
8043	.008	-	5	115	15	20	25	0.13%
8044	-	-	10	165	5	20	20	0.10%
8045	-	-	10	110	11	20	15	440
8046	-	-	5	140	28	20	15	660
8047	-	-	5	145	29	20	15	850
8048	-	-	5	90	19	15	25	990

Sample #	oz/ton		ppm or % Where Indicated					
	Au	Ag	As	Cu	Mo	Pb	Zn	Ba
8049	-	.50	5	105	15	15	25	0.10%
8050	-	.24	-	75	7	20	100	0.17%
8051	0.18	-	15	40	6	20	80	0.16%
8052	.002	.22	20	80	8	25	60	0.15%
8053	-	.10	30	30	2	30	60	0.14%
8054	-	.16	15	90	15	10	15	760
8055	-	.06	20	55	15	10	15	975
8056	-	.04	45	90	19	15	15	425
8057	-	.16	10	60	12	15	15	390
8058	-	.16	5	55	5	15	10	210
8059	-	.18	25	130	4	15	195	0.32%
8060	-	.08	55	65	15	25	120	0.10%
8061	-	.16	40	90	16	20	195	0.13%
8062	-	.04	30	100	15	30	245	0.14%
8063	-	.26	45	70	19	30	185	0.15%
8064	-	.24	40	105	15	45	205	780
8065	-	-	40	80	15	25	160	575
8067	-	.10	30	120	11	20	25	290
8068	-	.16	10	40	5	25	10	740
8069	-	.12	10	40	7	80	10	0.13%
8070	-	.16	15	40	8	20	15	360
8071	-	.08	10	70	18	25	20	575
8072	-	-	15	105	12	15	20	350
8073	-	.02	25	110	18	15	30	240
8074	-	.38	20	105	15	15	20	440
8075	-	.08	20	65	19	20	15	340
8076	-	-	15	65	16	15	15	200
8077	-	.06	15	75	17	25	15	440
8078	-	-	15	60	20	20	15	175
8079	-	-	20	40	23	25	30	375
8080	-	.14	15	60	23	20	45	550
8081	-	.14	55	105	46	440	185	660
8082	-	.06	60	90	15	40	45	310
8083	-	.14	35	170	13	25	45	450
8084	.002	.22	25	95	11	25	20	0.18%
8085	-	.08	15	90	15	15	30	290
8086	-	.12	45	110	18	20	30	475
8087	-	-	35	80	16	30	45	275
8088	-	.14	40	345	15	20	45	250
8089	-	-	30	420	10	15	30	225
8090	-	.22	30	135	17	15	30	290
8091	.002	.16	45	185	15	25	265	560
8092	-	.16	25	175	12	20	70	475
8093	-	.14	40	90	16	15	55	400
8094	-	-	5	110	9	20	30	0.14%
8096	-	.22	10	60	7	20	95	0.28%
8097	-	-	5	110	6	20	120	0.12%
8098	-	.12	5	105	5	15	135	625
8099	-	.10	10	90	9	20	370	725
8100	-	-	20	65	6	10	470	835
8101	-	.18	5	90	5	10	190	0.14%

Sample #	oz/ton		ppm or % Where Indicated					
	Au	Ag	As	Cu	Mo	Pb	Zn	Ba
8102	-	.08	45	225	21	10	610	0.26%
8103	-	.12	25	180	28	5	240	0.29%
8105	-	.22	10	180	7	10	20	850
8106			10	130	10	5	20	0.13%
8107	.004	-	90	45			45	0.31%
8108			10	320			30	935
8109			5	115			15	0.11%
8110			15	175			20	0.11%
8111	.002	-	25	90			30	0.12%
8112			10	145			70	785
8113			5	115			60	0.12%
8114			5	60			90	610
8115	-	.22	10	160			500	675
8116	-	.18	25	140			615	485
8117	-	.02	15	65			470	0.13%
8118	.002	.12	25	60			40	0.25%
8119	-	.12	10	50			30	0.24%
8120	-	.22	10	50			40	0.23%
8121	-	.14	5	60			70	0.58%
8122	-	.16	15	35			40	0.15%
8123	-	.12	5	45			40	0.16%
8124			5	40			65	0.16%
8125	-	.20	10	45			45	0.23%
8126	-	.22	15	45			60	0.26%
8127	-	.24	5	20			50	0.25%
8128	-	.10	15	95			40	0.37%
8129	-	-	10	75	10	5	20	0.26%
8130	-	.18	15	60			25	0.31%
8131	-	.06	10	70			20	0.30%
8132	-	.38	5	65			15	0.43%
8133	-	.24	15	55			20	0.33%
8134	-	.16	10	65			20	0.29%
8135	-	.50	10	60			20	0.28%
8136	.098	-	15	65			20	0.27%
8137	-	.52	10	75			20	0.30%
8138	-	.08	-	15			25	0.31%
8139	-	.10	5	35			100	0.33%
8140	-	.32	30	195			60	0.26%
8141	-	.06	10	55			280	0.40%
8142	.003	.18	15	180			595	0.46%
8143	-	-	10	70			245	0.15%
8144	-	-	10	110	10	10	25	0.18%
8145	-	-	45	40			40	0.14%
8146	-	-	5	40			65	0.16%
8147	.002		10	35			90	0.25%
8148	.002		5	55			50	0.16%
8149	.012		5	145			25	650
8150	.010		15	90			20	510
8151	.004		10	95			20	0.23%
8152	-	-	10	45			35	0.13%
8153	.002		20	110			20	753

Sample #	oz/ton		ppm or % Where Indicated					
	Au	Ag	As	Cu	Mo	Pb	Zn	Ba
8154	.004	-	20	70			25	585
8155	-	-	30	60			25	700
8156	0.34	-	25	65			15	750
8157	-	-	15	60			20	0.10%
8158	-	-	10	90			10	975
8159	-	-	10	65			15	950
8160	-	-	10	75			10	835
8161	-	-	10	65			15	885
8162	.002	-	15	90			10	775
8163	-	-	15	45			15	800
8164	-	-	10	75			10	675
8165	-	-	10	60			10	0.10%
8166	.002	-	5	60			10	0.12%
8167	-	-	15	55			10	0.12%
8168	-	-	5	100			15	0.11%
8169	-	-	10	150			15	875
8170	-	-	10	120			15	450
8171	-	-	15	40			30	725
8172	-	-	40	120			455	685
8173	.002	.26	10	135			940	0.26%
8174	-	.16	10	240			530	0.24%
8175	-	.08	5	125			810	0.24%
8176	.002	.16	5	65			410	0.44%
8177	-	.04	-	115			465	0.21%
8178	-	.16	-	140			170	0.24%
8179	.008	.07	5	100			210	0.14%
8180	.002	.06	15	120			345	0.12%
8181	.002	-	5	115			480	0.11%
8182	-	-	30	300			80	2.00%
8183	-	.08	120	345			240	0.48%
8184	-	.18	160	405			315	2.80%
8185	-	.10	5	120			110	410
8186	-	.14	10	115			175	460
8187	.002	.06	5	70			270	0.14%
8188	-	.16	65	270			935	510
8189	-	-	10	75			205	0.24%
8190	-	.26	5	50			170	0.19%
8192	-	.04	5	10			60	0.20%
8193	-	.04	10	15			50	0.59%
8194	-	.04	10	25			30	0.13%
8195	-	.06	10	60			70	0.20%
8196	-	-	-	45			215	0.24%
8197	-	-	10	90			855	0.39%
8198	-	.14	20	95			0.15%	0.32%
8199	.002	.12	5	85			0.10%	0.28%
8200	-	.22	10	130			0.12%	0.26%
8201	.002	.10	10	100			860	0.32%
8202	.002	.10	10	120			0.25%	0.25%
8203	-	.18	35	150			240	0.26%
8204	-	.06	90	125			30	710
8205	-	.20	25	215			205	0.25%
8206	-	-	30	215	6	10	295	0.25%

Sample #	oz/ton		ppm or % Where Indicated					
	Au	Ag	As	Cu	Mo	Pb	Zn	Ba
8207	-	.14	0.039%	250			340	0.41%
8208	.002	.10	20	85			35	0.70%
8209	-	.20	20	120			40	0.70%
8210	-	.18	5	115			55	0.85%
8211	.004	.06	45	110			225	0.50%
8212	.002	-	0.036%	260			430	0.51%
8213	.002	-	0.032%	200			335	0.70%
8214	.002	-	0.037%	270			0.14%	1.45%
8215	.002	-	140	285			650	1.00%
8216	-	-	75	170			285	0.49%
8217	-	.02	40	65			450	0.47%
8218	-	-	30	55			105	0.29%
8219	.002	.10	115	70			175	0.36%
8220	-	.02	35	90			80	0.45%
8221	-	-	20	50			85	0.42%
8222	.058	-	0.076%	380			945	2.75%
8223	.002	.14	0.031%	620			0.25%	1.00%
8224	.004	-	155	495			0.10%	1.40%
8225	-	-	165	935			265	1.25%
8226			275	280			100	1.00%
8227			5	35			45	0.14%
8228			-	80			25	0.12%
8229			5	70			25	960
8230			5	50			25	0.12%
8231	-	.16	-	50			20	0.10%
8232			15	235			120	1.00%
8233	.002	.02	20	255			370	0.80%
8234			5	95			85	0.75%
8235			-	60			50	0.80%
8236			10	105			80	0.85%
8237			-	40			65	0.75%
8238			-	60			20	0.80%
8239			5	30			15	0.45%
8240			-	45			90	0.50%
8241	.002	-	5	55			110	0.50%
8242			5	70	5	45	165	0.38%
8243			5	115			60	1.00%
8244	-	.08	15	140			285	0.35%
8245			5	80			290	0.45%
8246			-	25			35	0.35%
8247			5	65			135	0.30%
8248			-	80			180	0.45%
8249		.	15	50			20	0.40%
8250	-	.06	25	80			55	0.25%
8251			20	65			85	0.15%
8252			10	55			105	0.40%
8253			115	250			355	800
8254			215	75			80	0.50%
8255			165	395			90	0.22%
8256		0.037%		170			55	0.19%
8257			70	155	12	35	115	0.80%

Sample #	oz/ton		ppm or % Where Indicated					
	Au	Ag	As	Cu	Mo	Pb	Zn	Ba
8258			55	165			260	1.25%
8259			60	165			100	0.70%
8260			60	115			165	1.50%
8261			65	40			30	2.00%
8262			30	50			30	0.55%
8263	.002	.10	20	185			250	1.05%
8264			15	185			270	1.05%
8265	.002	-	25	140			215	1.25%
8266			35	210			95	0.95%
8267			20	145			190	0.90%
8268			20	125			80	0.45%
8269			160	75			25	0.90%
8270	.002	.14	60	235			240	0.50%
8271	-	.06	190	210			95	0.32%
8272	.002	.06	45	155			65	0.55%
8273	.002	.36	80	135			220	0.90%
8274	.002	.24	35	125			245	1.05%
8275	.002	.12	75	165			90	0.85%
8276	.002	.06	40	160			100	1.20%
8277	.002	-	65	205			385	0.60%
8278	.002	-	35	230			295	0.55%
8279	.002	.06	45	330			240	0.95%
8280	-	-	10	80			20	750
8281	-	.04	5	50			25	950
8282	-	-	10	65			10	0.19%
8283	-	.24	-	75	6	10	10	190
8284	-	.18	5	90	10	15	15	625
8285	-	.06	40	50	5	55	75	0.13%
8287	-	2.00	20	40	3	25	60	1.15%
8288	-	-	55	75	6	25	50	0.85%
8289	-	.06	30	70	13	30	90	0.23%
8290	-	-	40	95	13	25	50	1.75%
8291	-	.02	40	75	15	25	135	0.28%
8292	-	-	35	85	12	25	215	0.51%
8293	-	.04	25	80	9	35	125	1.90%
8294	-	.08	-	30	4	35	70	0.31%
8295	-	.02	5	60	9	20	185	0.29%
8296	-	.04	5	110	2	20	165	0.54%
8297	-	-	10	65	2	25	485	0.41%
8298	-	.16	10	50	2	25	495	0.61%
8299	-	-	5	55	1	25	350	2.25%
8300	-	-	5	45	1	30	425	0.38%
8301	-	-	-	45	1	30	90	0.26%
8302	-	-	5	40	3	35	125	0.43%
8303	-	-	-	55	1	20	70	0.47%
8304	.002	.04	5	60	5	20	25	0.44%
8305	-	-	5	55	5	15	35	0.78%
8306	-	.10	5	40	-	25	35	0.44%
8307	-	-	5	35	2	20	85	0.35%
8308	-	.08	5	35	1	15	260	0.17%
8310	-	.16	10	130	6	20	365	0.61%

Sample #	oz/ton		ppm or % Where Indicated					
	Au	Ag	As	Cu	Mo	Pb	Zn	Ba
8312			5	170	7	20	250	0.16%
8313			5	130	1	15	0.13%	0.33%
8314			10	150	9	45	0.11%	0.35%
8315			20	310	6	90	585	750

Drill Hole
HRR-1

10694		5	40	5	45	155	860
10695		5	55	4	50	185	610
10696		5	20	3	10	45	520
10697		5	25	5	10	30	400
10698		5	25	5	10	30	220
10699		5	15	4	10	40	350
10700		5	15	4	10	55	380
10701		5	20	5	10	60	560
10702		5	35	5	5	55	900
10703		10	35	3	5	60	520
10704		5	35	3	5	85	320
10705		-	45	3	5	140	580
10706		-	15	3	-	100	580
10707		5	30	3	10	130	700
10708		10	55	4	10	45	490
10709		5	45	3	5	25	450
10710		-	60	3	-	25	0.12%
10711		5	80	6	10	20	600
10712		10	65	5	5	15	540
10713		5	25	4	5	15	450
10714		5	25	3	10	25	350
10715		5	25	3	15	15	400
10716		-	20	3	15	15	400
10717		5	20	3	15	20	450
10718		5	15	3	15	25	550
10719		5	30	4	15	25	590
10720		5	30	2	10	35	580
10721		5	25	3	5	15	610
10722		10	20	3	10	20	650
10723		5	15	6	10	30	750
10724		5	15	8	10	25	520
10725		5	20	10	15	195	680

Drill Hole
HRR-2

10726		5	55	3	20	65	780
10727		5	15	3	30	15	0.18%
10728		-	5	1	40	15	0.20%
10729		5	5	2	40	15	0.18%
10730		5	120	4	15	15	740

<u>Sample #</u>	<u>oz/ton</u>		<u>ppm or % Where Indicated</u>					
	<u>Au</u>	<u>Ag</u>	<u>As</u>	<u>Cu</u>	<u>Mo</u>	<u>Pb</u>	<u>Zn</u>	<u>Ba</u>
Drill Hole HRR-2								
10731			5	70	4	15	15	0.18%
10732			5	25	3	10	10	0.18%
10733			5	20	4	15	10	0.22%
10734			5	45	10	15	15	0.13%
10735			-	15	10	10	15	460
10736			-	25	10	15	10	390
10737			-	35	16	15	10	490
10738			-	50	13	10	10	600
10739			5	80	13	15	15	475
10740			-	25	6	20	10	690
10741			-	30	7	15	15	550
10742			-	25	13	10	15	500
10743			5	20	11	15	15	660
10744			-	55	11	20	15	810
10745			5	60	9	15	15	690
10746			5	50	10	15	10	810
10747			5	40	10	15	10	875
10748			5	50	11	15	15	0.10%
10749			5	40	13	20	30	0.14%
10750			-	35	7	30	25	0.16%
10751			5	55	8	25	30	0.22%
10752			5	30	14	10	15	0.16%
10753			-	50	24	10	20	0.14%
10754			30	45	9	15	25	0.19%
10755			5	80	23	20	20	0.14%
10756			5	65	13	20	20	0.19%
10757			5	115	8	20	75	0.27%
10758			15	120	14	15	220	0.17%
10759			25	160	13	20	530	0.15%
HRO-1	0.016	3.1	470	930.0	40	264	1061.0	
HRO-2	0.002	0.7	3	19.1	9	32	56.7	
HRO-3	-	0.8	10	47.7	31	8	154.8	
HRO-4	0.001	0.6	21	145.5	32	6	31.1	
HRO-6	0.001	2.0	8	62.4	34	890	7160.0	

RG

**BARRINGER
LABORATORIES**

AUTHORITY: ROBERT CUFFNEY

01-MAY-85
PAGE: 1 OF 2
COPY: 2 OF 2

EXXON MINERALS CO.
260 'B' CONEY ISLAND DR.
SPARKS, NV.
89431

ATTN: ROBERT CUFFNEY

WORK ORDER: 3058R-85

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: ROCK

SAMPLE NUMBER	FIRE ASSAY		TOTAL	
	AG PPM	AU PPB	BA PPM	CU PPM
6837012	1.9	8.0	1830.0	209.0
6837013	0.56	<2.0	200.0	263.0
6837014	37.0	4.0	770.0	1030.0
6837015	2.9	5.0	1450.0	140.0
6837016	2.3	12.0	250.0	175.0
6837017	0.21	2.0	120.0	201.0
6837018	0.28	<2.0	50.0	247.0
6837019	0.21	2.0	890.0	17.0
6837020	0.23	<2.0	670.0	66.0
6837021	0.16	<2.0	580.0	80.0
6837022	0.35	6.0	390.0	101.0
6837023	0.43	9.0	80.0	84.0
6837024	0.32	2.0	130.0	148.0
6837025	7.6	9.0	124000.0	960.0



BARRINGER RESOURCES INC.
OFFICES & MINERALS
LABORATORY:
1455 DEMING WAY, SUITE 15
SPARKS, NEVADA 89431
PHONE: (702) 358-1158

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LABORATORIES**

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6837014	37.0	4.0	770.0	1030.0
6837015	2.9	5.0	1450.0	140.0
6837016	2.3	12.0	250.0	175.0
6837017	0.21	2.0	120.0	201.0
6837018	0.28	<2.0	50.0	247.0
6837019	0.21	2.0	890.0	17.0
6837020	0.23	<2.0	670.0	66.0
6837021	0.16	<2.0	580.0	80.0
6837022	0.35	6.0	390.0	101.0
6837023	0.43	9.0	80.0	84.0
6837024	0.32	2.0	130.0	148.0
6837025	7.6	9.0	124000.0	960.0

**BARRINGER
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EXXON MINERALS CO.
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WORK ORDER: 3058R-85

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*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: ROCK

SAMPLE NUMBER	PB PPM	ZN PPM
6837012	16.0	112.0
6837013	36.0	47.0
6837014	1540.0	184.0
6837015	1150.0	1080.0
6837016	620.0	540.0
6837017	4.0	12.0
6837018	2.0	9.0
6837019	4.0	16.0
6837020	6.0	5.0
6837021	10.0	8.0
6837022	10.0	36.0
6837023	54.0	139.0
6837024	2.0	18.0
6837025	76.0	2980.0

SIGNED: 

James R. Lee,
LABORATORY MANAGER

FOOTNOTES:

P=QUESTIONABLE PRECISION; *=INTERFERENCE; TR=TRACE; ND=NOT DETECTED;
IS=INSUFFICIENT SAMPLE; NA=NOT ANALYZED; MS=MISSING SAMPLE

Hilly Rock

013 bx o/c adj. french 22

^{<2}
^{.56} bx'ed dk gray-blk chert w/ str. gne + hem stn.
late drusy gtz

014 small pit above (N) french

4.0 o/c bx'ed chert str. silicified w/ clear halite
37.0 gtz replacement + bx filling, v. str. gne + hem
some earthy Feix, minor drusy gtz

015 pit - chips across 3' n. wall

5.0 v. h. fract, sharded str. bl - argill chert, soft
2.9 friable, mod gne + jar str.

016 E. wall pit - bx'ed silicified chert

shattered cemented w/ clear crystalline gtz, some open space
12.0 w/ drusy inf, locally argill., v. str. gne + jar, hem
2.3 chips across 10'

017 french #30

2.0 bedded (?) semi massive barite str. jar + gne stn
.21 wk argill. bed within blk chert

018 bottom of trench just w. of 017 ^{french} #30
2.2 gtz-barite repl. "vein", str. gne + jar after sulfides
.28 in weathered pockets, barite both case gr + fine

019 o/c in cut w. wall trench #49

2.0 bt gray, sl. bleached sl. friable limestone

.21 wky lamy sl. fossilized, fr. Feox atm on fract

020 trench, o/c in w. flk near split ^{#51}

2.2 gry sphaer. barite(C) shale, heavy dense
.23

trench 51

021 of E. wall, E flk trench just so of - split
 similar to 021, bx'ed, lgt gray
 aphan baritic mudstone / shale, silicaceous
 mod grn on fracto

022 of trench 46
 of E. wall trench in drainage just no.
 6.0
 .35
 370 ppm B2
 wh fract to bx'ed argill, locally milky
 silicon mudstone + minor chert
 wh, diss. barite ?, mod-str grn sfn

023 inter road w/ old cut - high
 9.0
 .43
 v. str bl. argill, soft friable btgry.
 limestone w/ thick chert laminae
 wk-mod grn sfn

0024 of c in drainage N. of E. pits
 2.0
 .32
 bx'ed blk chert, v. arg. w/ minor milky
 qtz veining, v. unk fels

0025 natl of small pit between trenches
 9.0
 7.6
 124,000 ppm B2
 massive wh. coarse gr. crystalline barite vein
 local silic., str. grn, less far

0012 E trench near middle
 8.1
 1.9
 y/l brown, wtly streaked grn-jar str chert
 with f. tan blk chert

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EXXON MINERALS CO.

260 'B' CONEY ISLAND DR.
SPARKS, NV.
89431

ATTN: ROBERT CUFFNEY

HEAVY Rock

WORK ORDER: 3058R-85

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: ROCK

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6837015	2.9	5.0	1450.0	140.0
6837016	2.3	12.0	250.0	175.0
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6837023	0.43	9.0	80.0	84.0
6837024	0.32	2.0	130.0	148.0
6837025	7.6	9.0	124000.0	960.0

12.72

.00292 1000
.00292 100
.000292 100
1000
100
100



AUTHORITY: ROBERT CUFFNEY

01-MAY-85
PAGE: 2 OF 2
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EXXON MINERALS CO.
260 'B' CONEY ISLAND DR.
SPARKS, NV.
89431

HEAVY ROCK

ATTN: ROBERT CUFFNEY

WORK ORDER: 3058R-85

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: ROCK

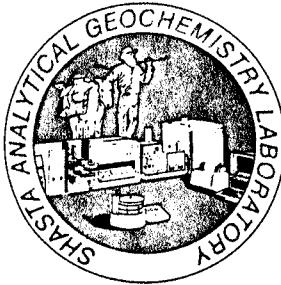
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6837019	4.0	16.0
6837020	6.0	5.0
6837021	10.0	8.0
6837022	10.0	36.0
6837023	54.0	139.0
6837024	2.0	18.0
6837025	76.0	2980.0

SIGNED: 

James R. Lee,
LABORATORY MANAGER

FOOTNOTES:

P=QUESTIONABLE PRECISION; *=INTERFERENCE; TR=TRACE; ND=NOT DETECTED;
IS=INSUFFICIENT SAMPLE; NA=NOT ANALYZED; MS=MISSING SAMPLE



SHASTA ANALYTICAL GEOCHEMISTRY LABORATORY

1240 Redwood Boulevard, Redding, California 96003 (916) 244-4441

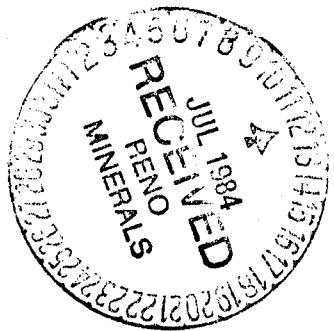
Date: July 11, 1984
Client: Exxon Minerals Company
50 Freeport Blvd., #24
Sparks, Nevada 89431
Att: R.G. Cuffney
Date Received: 5-9-84

No. of Samples/Job No.: 2/3026
Analytical Methods: A.A. (Ba)

Results in oz./ton: _____
Results in ppm: _____ Ba

<u>Sample #</u>	<u>Ba</u>
HM-1	1480
2	222000

Paper pk



By: —

Bruce Knowlton
Fire Assayer

By: Brenton McElroy

Brendan McMahon Analytical Geochemist

Verified

**Vern Peterson
Laboratory Manager**

ND: No Detection
MS: Missing Sample
1 Troy oz/ton: 34.286 ppm

NA: Not Analyzed
IS: Insufficient Sample
1 ppm: 0.0292 Troy oz/ton

T: Trace

This analytical report is the confidential property of the above mentioned client and for the protection of this client and ourselves, we reserve the right to forbid publication or reproduction of this report or any part thereof without written permission.

**CR EXPLORATION CO.
EXPLORATION ROTARY DRILL HOLES**

DRILL HOLE HRR-2

LOCATION NE LEG TRENCH #27 TN R SEC

DEPTH 180' DATE DRILLED

DRILLER _____ **SAMPLER** No. _____

NORTHING _____ **SAMPLER** K. BROOK

EASTING _____ ELEVATION 6050'
COMMENTS: Wetland

CR EXPLORATION CO.
EXPLORATION ROTARY DRILL HOLES

DRILL HOLE HRR-3

HEAVY ROCK
LOCATION 80' S OF EAST END TRAJECTORY #44 TN R SEC
DEPTH 150' DATE DRILLED

DRILLER CONRAD TORREZ SAMPLER L.

SAMPLER LUDWICK

NORTHING _____ EASTING _____ SAMPLER ZUDWICK

EASTING _____ ELEVATION 6020

COMMENTS: INCLINED 55° S 85W

ALL DATA FROM DOWNTIME EXPLORATION LOGS

CR EXPLORATION CO.
EXPLORATION ROTARY DRILL HOLES

DRILL HOLE HRR-4

LOCATION 100' NNE of Second Trench #72 **TN** R **SEC**
DEPTH 200' **DATE DRILLED** 4/28-69/82

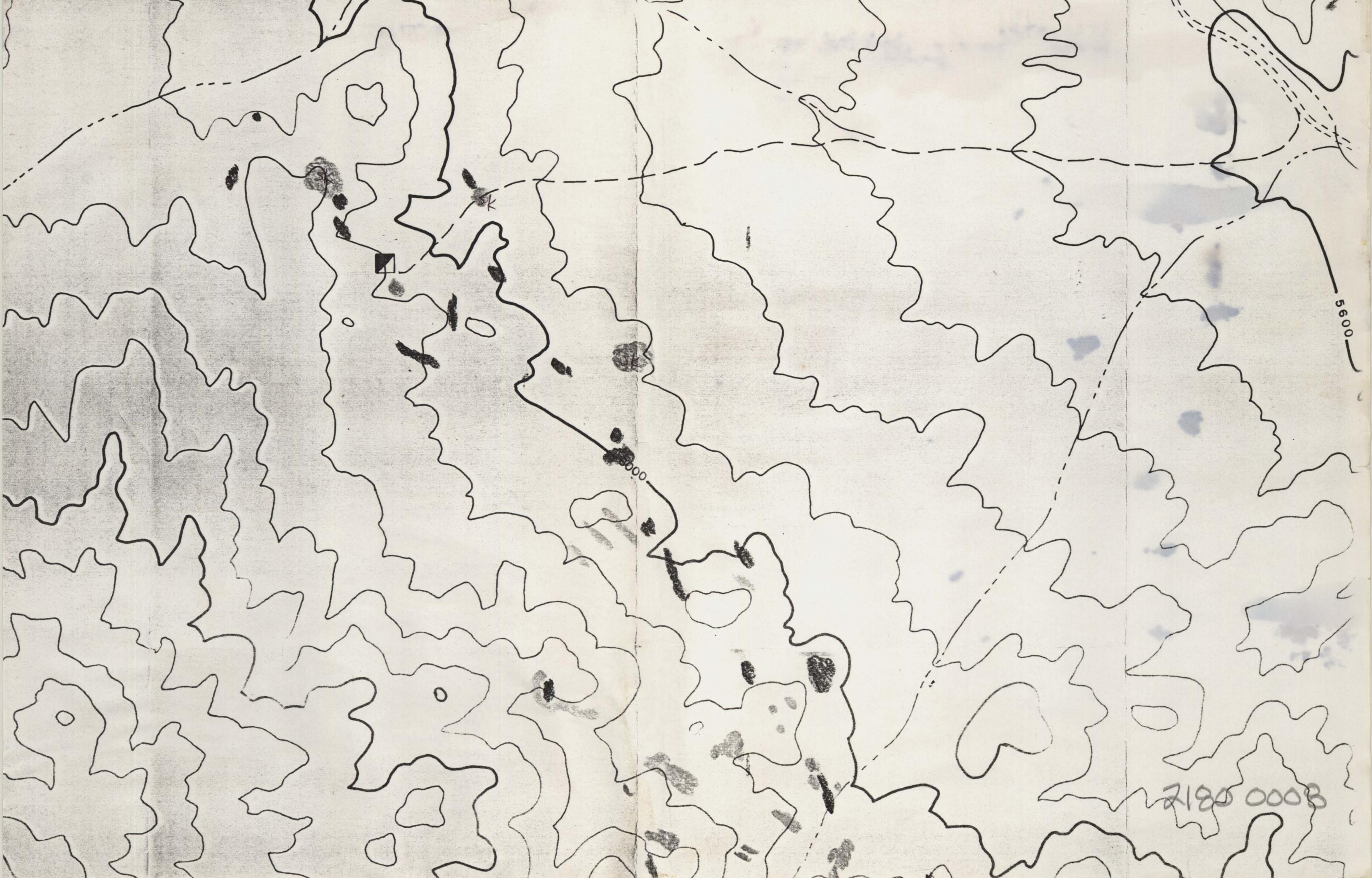
DRILLER CONRAD TORREZ **SAMPLER**

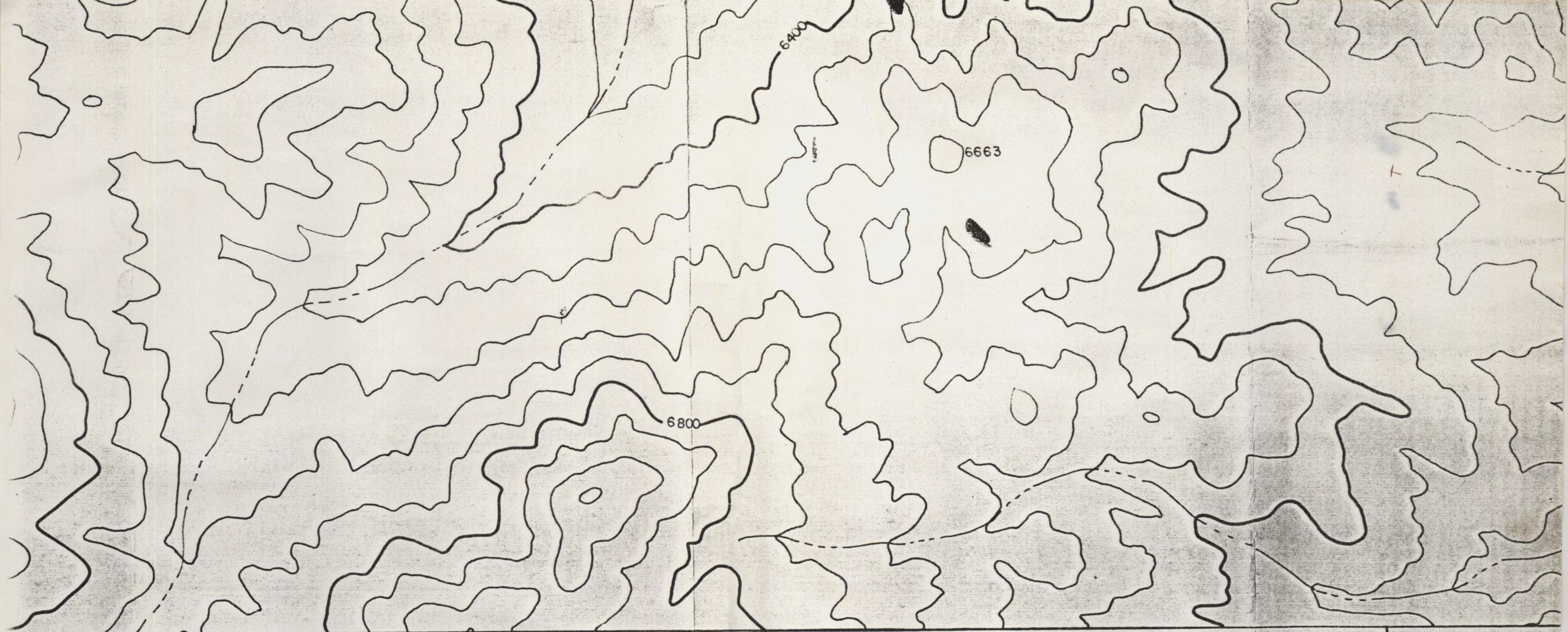
NORTHING SAMPLER LUDWICK

COMMENTS: INCLINED 60° - 385W

ALL DATA FROM DONE EXPLORATION LOGS

ET	ROCK	Au	Ag			COMMENTS
						LT TO MED GRAY, DENSE APTIAN CALC MUDSTONE, LOCAL LAMINATED ON 3 mm COLOR BANDS (LIGHT & DARK) 3-5% CA XI FRAGS, MODERATE GREEN Fe SULFATE STAIN, MINOR REACTION Fe/Ca MEDIUM GRAY AGGRADING TO TAN ABOVE. HED TO HEAVY RED Fe/Ca Fe/Ca 5-10% Tan + Red Calc Clay 2.5% CALCIUM X-FRAGS
0						LIGHT & MED GRAY LAMINATED (<1mm) CALC MUDSTONE, MINOR TO MOD RED & BROWN Fe/Ca ON HAIRLINE FRAGS, FEW CA XI FRAG, Voids & 6" common
00						MEDIUM TO DARK GRAY DENSE APTIAN CALC MUDSTONE, LOCAL LAMINATED ON ≤ 2 mm COLOR BANDS. FEW CA XI FRAG THROUGH MINOR TO HEAVY Fe/Ca BROWN AND NODULAR HAIRLINE FRAG, MINOR TO MOD (2/16 - 1/8) POROUS RED-BROWN LIMONITE
00						LIGHT TO DARK GRAY WITH 2-3" PAGE GREEN & GRAY CALC MUDST. LOCAL COLOR BANDS & 3 mm MINOR BROWN Fe/Ca ON HAIRLINE FRAG & RED BROWN POROUS LIMONITE. Voids & 6" SOFT SPOTS COMMON
00						LIGHT (10%) TO DARK (60%) GRAY LAMINATED (<5mm) CALC MUDST.
00						MINOR BROWN Fe/Ca ON HAIRLINE FRAG, TAN TO MINOR BROWN Fe SULFATE (?) STAINING. DENSE SLATE DRILLING ROCK
00						LIGHT TO MEDIUM GRAY, LAMINATED CALC MUDST AS ABOVE. VOIDS & 4" AND 1/4" SOFT SPOTS COMMON. MINOR Fe/Ca AND TAN (RED) Fe SULFATE ON FRAG.
1						





SYMBOLS

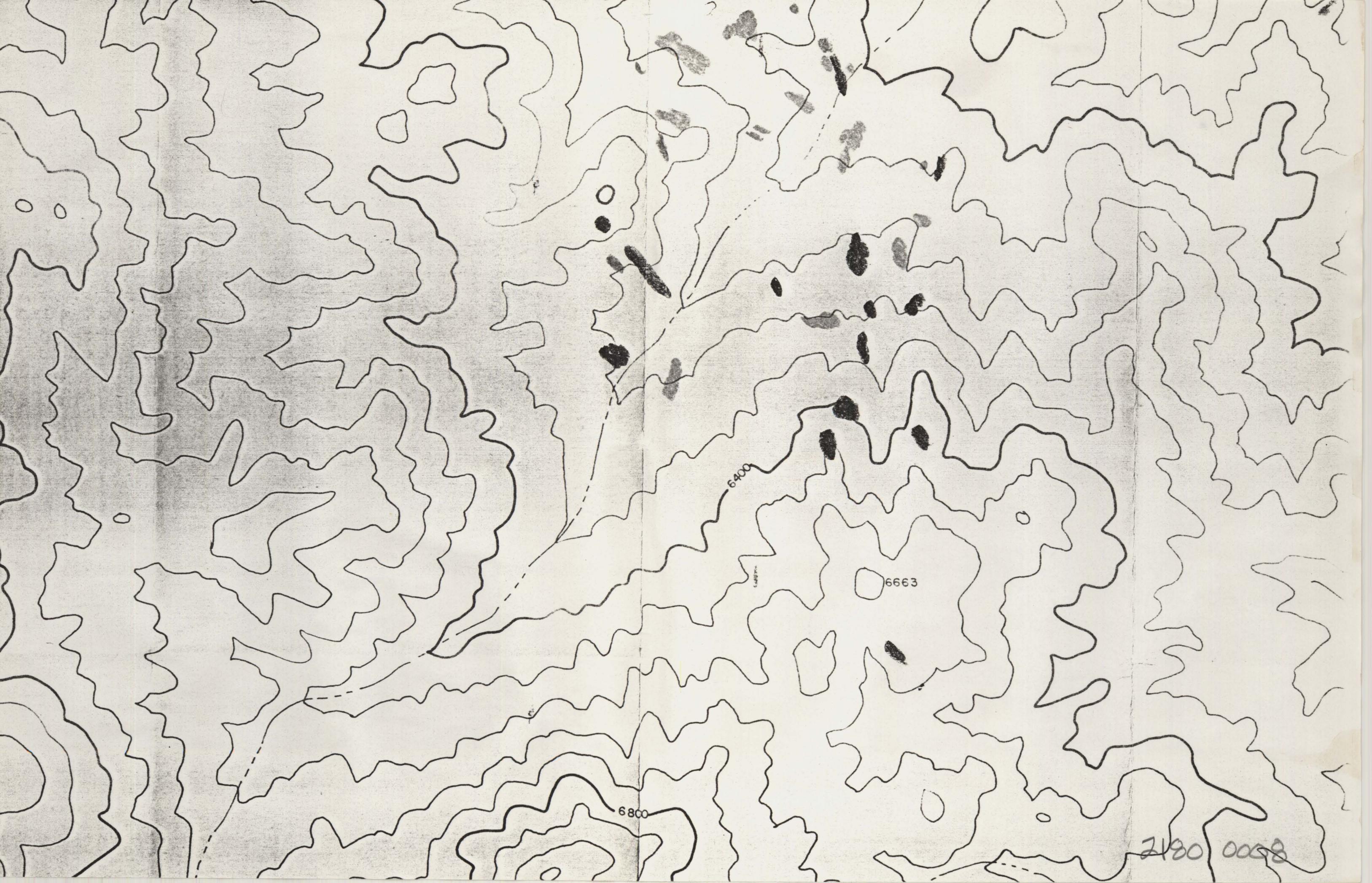
- [Light gray square] ARGILLIC ALTERATION
- [Dark gray square] SILICIFICATION
- [Medium gray square] SKARN

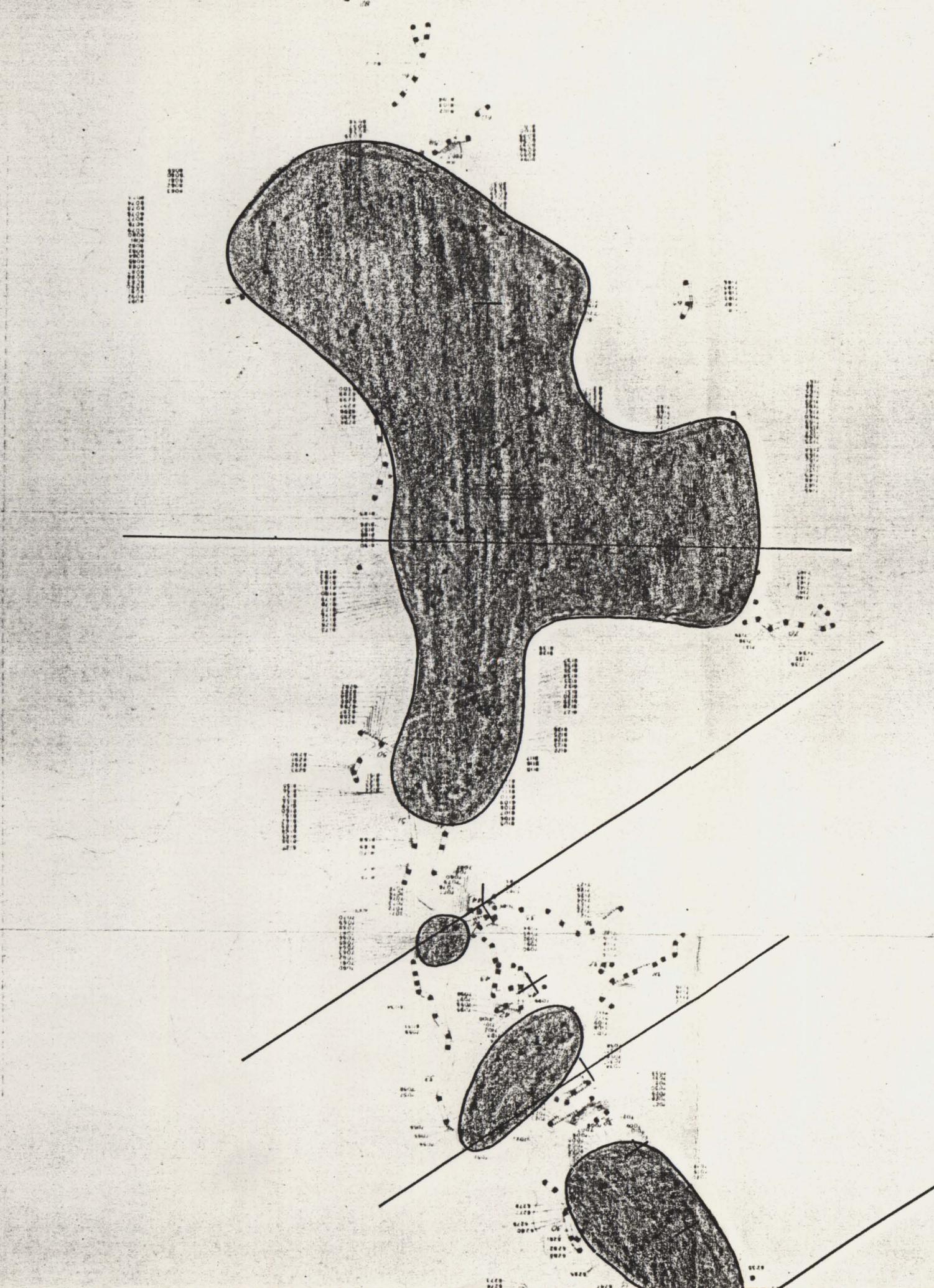
CR EXPLO
PO B
ROUND MOL

HEAVY ROC

ALTERAT

2180 0008





2180 0008

R 38 E
N

CR EXPLORATION CO.
PO BOX 264
ROUND MOUNTAIN, NEV.

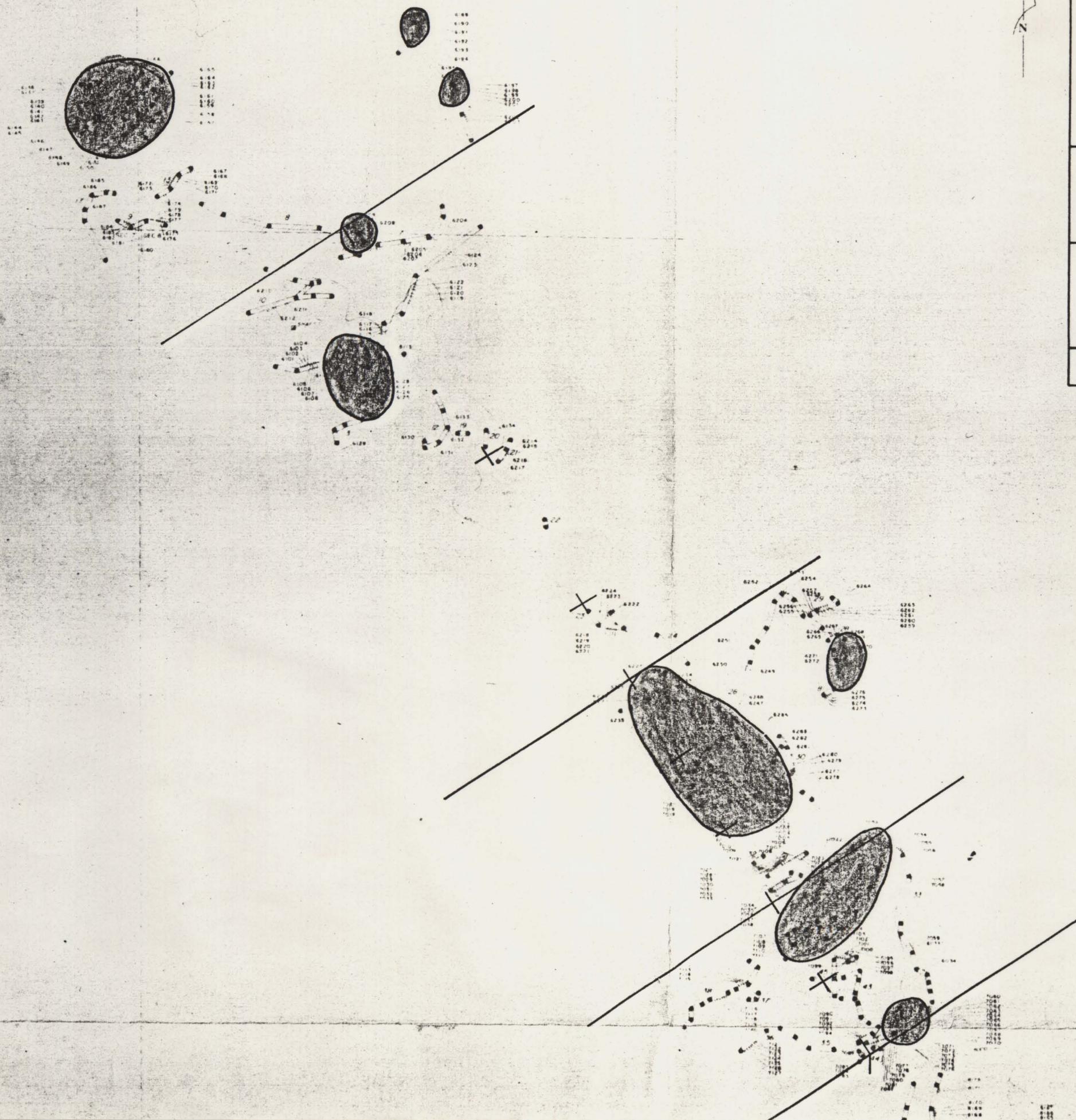
HEAVY ROCK PROPERTY

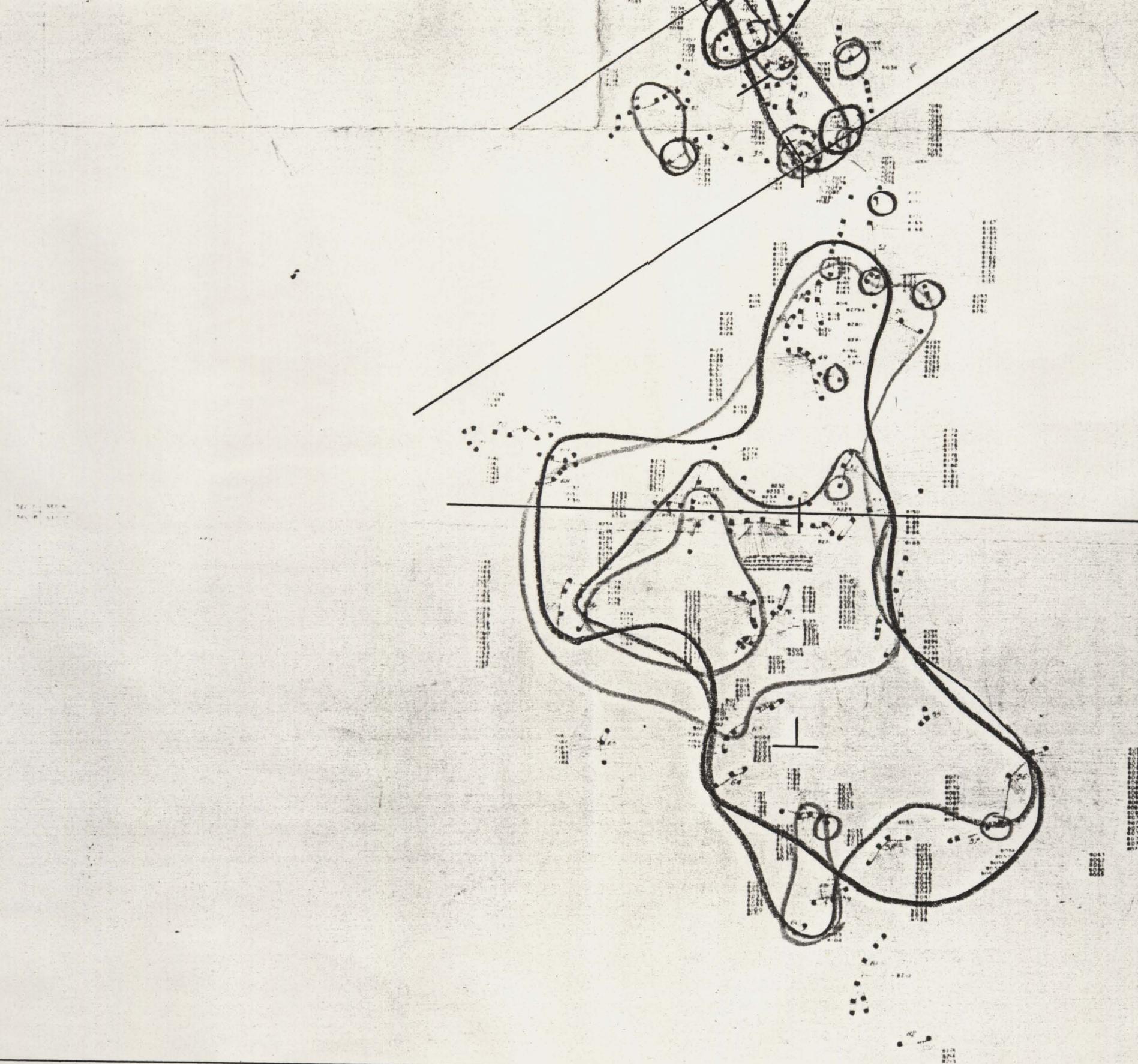
GOLD CONTENT
ISOLINE MAP

PLATE 5

DECEMBER, 1983

DRAFTED BY: RAJ





2180 0008

GOLD OZ/TON	SILVER OZ/TON	BARIUM PPM	ARSENIC PPM	COPPER PPM	LEAD PPM	ZINC PPM	MOLYBDENUM PPM
<input checked="" type="checkbox"/> DETECTABLE	<input type="checkbox"/> .03 - .2	<input type="checkbox"/> 0 - 700	<input type="checkbox"/> 0-20	<input type="checkbox"/> 0 - 100	<input type="checkbox"/> 0-30	<input type="checkbox"/> 0 - 50	<input type="checkbox"/> 1 - 7
	<input type="checkbox"/> .2 - .49	<input type="checkbox"/> 700-1400	<input type="checkbox"/> 20-40	<input type="checkbox"/> 100 - 500	<input type="checkbox"/> 30-60	<input type="checkbox"/> 50-100	<input type="checkbox"/> 7-14
	<input type="checkbox"/> .5 - .99	<input type="checkbox"/> 1400-2100	<input type="checkbox"/> 40-80	<input type="checkbox"/> 500-1000	<input type="checkbox"/> 60-90	<input type="checkbox"/> 100-150	<input type="checkbox"/> 14-21
	<input type="checkbox"/> 1.0 +	<input checked="" type="checkbox"/> 2100 +	<input checked="" type="checkbox"/> 80+	<input type="checkbox"/> 1000 +	<input type="checkbox"/> 90+	<input checked="" type="checkbox"/> 150 +	<input type="checkbox"/> 21 +

CR EXPLORATION CO.
PO BOX 264
ROUND MOUNTAIN, NEV.

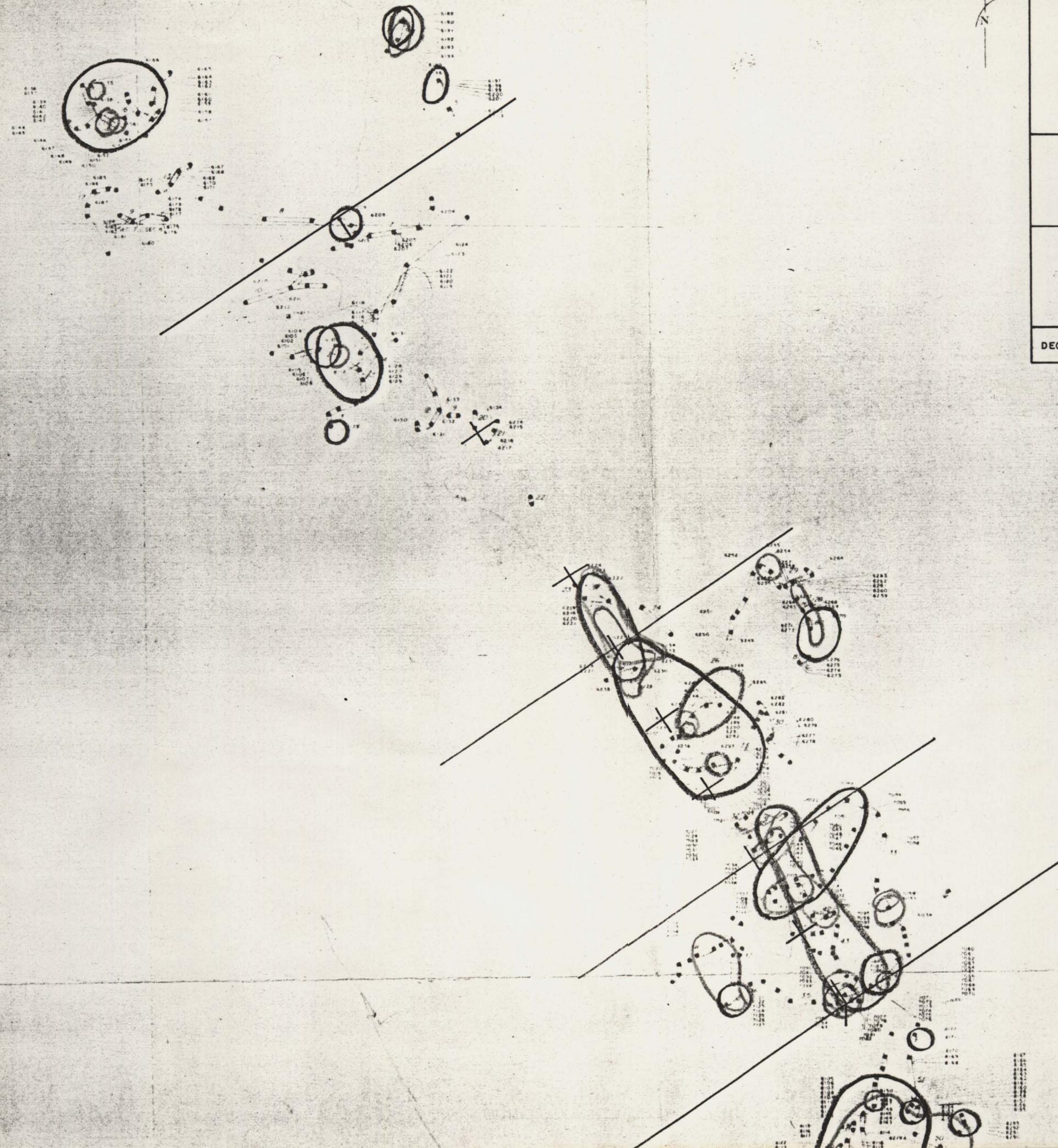
HEAVY ROCK PROPERTY

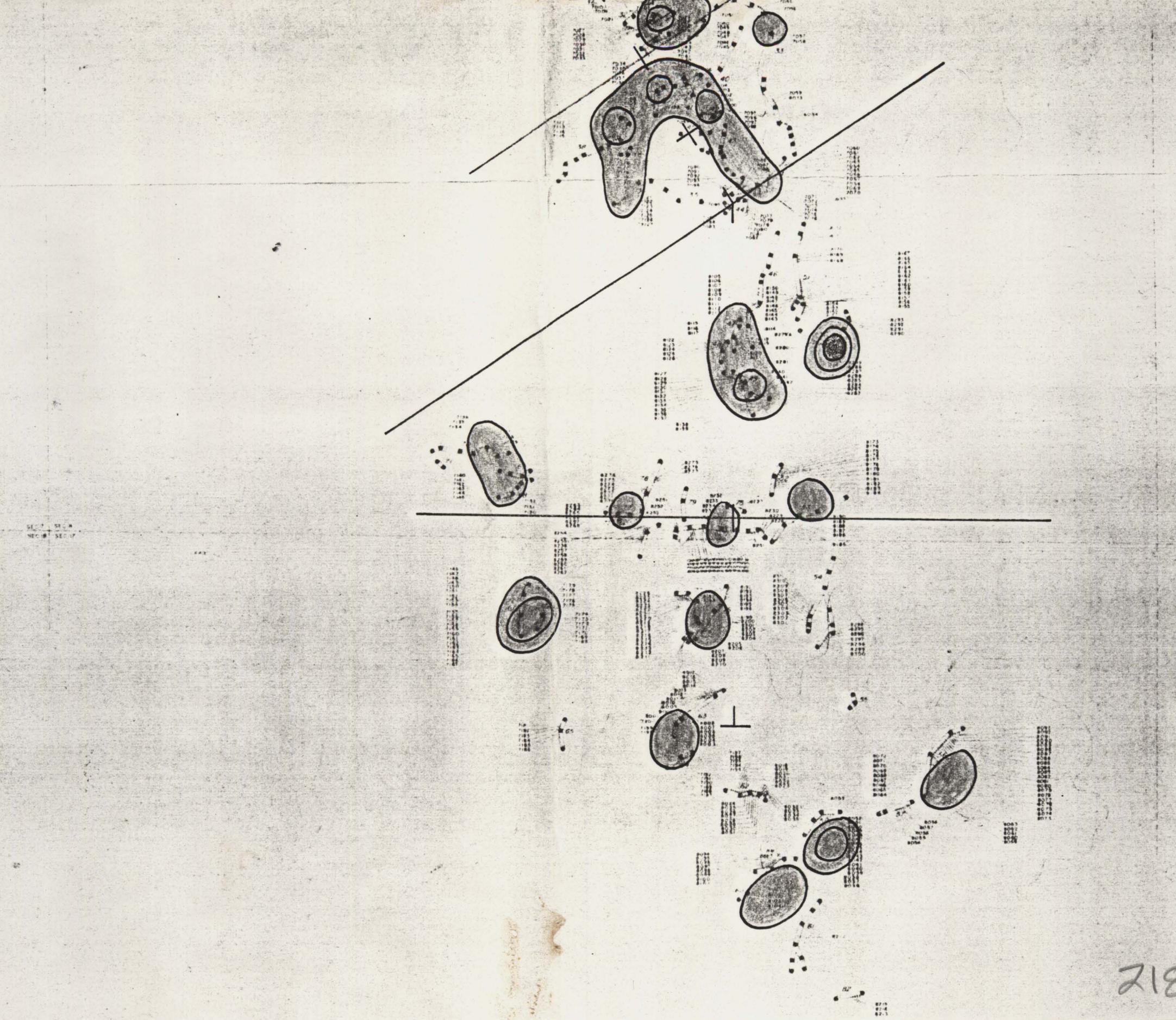
Au, As, Ba, Zn CONTENT
ISOLINE MAP

PLATE 4

DECEMBER, 1983

DRAFTED BY: RAJ





2180 0008

GOLD
OZ/TON

DETECTABLE

SILVER
OZ/TON

.03 - .2

BARIUM
PPM

0 - 700

ARSENIC
PPM

0-20

COPPER
PPM

0 - 100

LEAD
PPM

0-30

ZINC
PPM

0 - 50

MOLYBDENUM
PPM

1 - 7

.2 - .49

700 - 1400

20-40

100 - 500

30-60

50-100

7-14