3810 0017

159

Item 20

(map in back)

Tempo Prospect (Gold)
Lander County, Nevada

(159)
Item 20

Reno, Nevada - January 6, 1969

Mr. P. A. Meyer - Salt Lake City

Re: Tempo Prospect (Gold)
Lander County, Nevada

Transmitted herewith is a report prepared by Mr. J. V. Tingley in support of an exploration program on the Tempo Prospect, Lander County, Nevada. The potential of this property is premised on subjacent, stratigraphically-favorable host rocks, on anomalous values in four elements, including gold, and on the prospect's position in an altered structurally-positive area. The configuration of the thrust surface, however, presents an important but unknown quantity.

Except for the possibility of re-negotiation of certain terms as submitted by L. F. Campbell and the probability of bad winter-weather conditions in the area of interest, I concur with Mr. Tingley's views that Union Pacific acquire the ground as soon as it is convenient to do so. The expenditure forecast of a six-month program is $19,350.00.

R. J. Anctil

RJA:cm
CC: Los Angeles (1)
L A M D F (1)
Salt Lake City (2)
Reno (2)

Salt Lake City, Utah
January 14, 1969

To: J. V. Tingley

cc: R. J. Anctil
C. E. Melbye
L A M D F

From: P. A. Meyer

Subject: Tempo Prospect, Lander County, Nevada

I have read your report on the above mentioned prospect and agree with your conclusions that additional work should be done.

You describe a twofold target: (1) a possible disseminated mineralized zone within the breccia of the Roberts Thrust zone, and (2) a possibility in the upper portion of the Roberts Mountain formation containing a "Carlin type" disseminated gold deposit. These conclusions are drawn from your geochemical anomalies, the presence of barite veins, and the presence of rhyolite dikes in the upper plate rocks. All of these features point toward a zone of interest that may contain a sizeable ore body either within the thrust zone or in the underlying favorable Roberts Mountain formation. Hopefully, the thrust fault in this area is at a low angle and we will intersect the favorable Roberts Mountain formation.

I recommend we pursue a favorable deal with Lyle Campbell.

P. A. Meyer

PAM:k

LYLE F. CAMPBELL
POST OFFICE BOX 7377
RENO, NEVADA 89502
January 28, 1969

OFFER OF LEASE AND OPTION OF THE TEMPO GROUP TO UNION PACIFIC RAILROAD COMPANY

(This offer is predicated on the assumption that the Lease-Option instrument will follow the basic structure of the Gull Lease)

$3,000. to be paid at the time of executing instrument.

$500. per month during the first year.

$1,000. per month during the second year.

~~$2,000~~ 1500. per month during the third year.

~~$3,000~~ 2000. per month during the fourth year and thereafter.

Any monies paid in the above schedules to be deducted from production royalties.

Royalty-same as described in the Gull Lease, with the proviso that it shall be the right and option of Lessor to receive his royalty in the form of bullion or ingots.

Option to purchase property at any time for $2,500,000. less any money paid which has not been offset by production royalty.

If purchase option has been exercised, when the gross production reaches $100 million, Lessor will again start receiving the basic royalty on additional production. Lessee has the option to buy this royalty out at any time for $2,500,000.

LYLE F. CAMPBELL
POST OFFICE BOX 7377
RENO, NEVADA 89502
January 28, 1969

Alternate Plan for Option to Purchase the Tempo Property:

This is a firm offer provided the Lease-Option is executed by both parties by April 1, 1969.

Time Lapse	Purchase Price	Royalty	Minimum Annual Royalty
3 months	$25,000.	3%	$10,000.
6 months	50,000.	3%	10,000.
9 months	100,000.	2%	None
1 year	200,000.	2%	
2 years	400,000.	1% + Note 4	
3 years	800,000.	1% + Note 4	
4 years	1,500,000.	Note 4	
5 years	3,000,000.	None	
6 years	6,500,000.	None	

Notes:

1. Time lapse is from date of executing Lease-Option.
2. Royalty is on gross value of minerals produced.
3. Minimum annual royalty to be deducted from future production royalty.
4. When gross production has reached 100 million, lessee will again receive basic royalty of Lease-Option on future production.

TEMPO PROSPECT (GOLD)
LANDER COUNTY, NEVADA

by
J. V. Tingley

Distribution:
Los Angeles - (1)
L A M D F - (1)
Salt Lake City - (2)

Reno, Nevada

December 18, 1968

TABLE OF CONTENTS

	Page
SUMMARY	1
CONCLUSIONS AND RECOMMENDATIONS	2
INTRODUCTION	4
LOCATION	4
LAND STATUS	4
TERMS OF ACQUISITION	5
GENERAL GEOLOGY	5
STRUCTURE	7
MINERALIZATION	7
METHOD OF INVESTIGATION	8

APPENDIX

PLATE I - GEOLOGIC MAP WITH GEOCHEMICAL OVERLAYS

SAMPLE DATA SHEETS

ASSAY SHEETS

TEMPO REPORT by LYLE F. CAMPBELL

SUMMARY

The Tempo prospect, owned by Lyle F. Campbell of Reno, Nevada, is located in the southern Ravenswood Mining District, Lander County, Nevada.

Campbell staked the ground in April of 1968, following exploration ideas outlined by U. S. Geological Survey geologists in Geological Survey Circular 563, "Favorable Areas for Prospecting Adjacent to the Roberts Mountains Thrust in Southern Lander County, Nevada".

The claims cover the southeastern portion of a small window in the Roberts Mountains thrust sheet. Geochemical sampling and geologic mapping have shown the presence of a gold-arsenic-mercury-antimony anomaly in an area of upper-plate rocks cut by northeast-trending faults and barite veins.

The favorable Roberts Mountains siltstone is inferred to exist beneath an unknown thickness of siliceous upper-plate rocks in the anomalous area.

A minimum of two 500' drill holes would be needed to test for the presence of mineralized rock beneath the

thrust sheet. A six-month exploration program could be conducted on this property for just under $20,000, including advance-royalty payments.

CONCLUSIONS AND RECOMMENDATIONS

Mapping and sampling have led to the following conclusions: 1) the lower-plate rocks exposed on the property are unmineralized, however, only the base of the Roberts Mountains formation crops out. The favorable limey-siltstone member occurs near the top of the formation, and if present, would be under the thrust sheet to the southwest; 2) anomalous values of gold, arsenic, mercury and antimony were obtained from samples taken in siliceous rocks above the inferred upper-plate Roberts Mountains formation; 3) the area of anomalous heavy-metal values coincides with the intersection of the northeast fault-barite vein trend and the hidden lower-plate siltstone; 4) the attitude of the thrust sheet is not known. If the fault plane dips gently to the southwest, the heavy-metal anomaly presents an attractive exploration target.

The Tempo prospect represents a good disseminated-gold exploration target. The property lies within a major regional mineral belt. The siltstone member of the Roberts Mountains formation does not crop out, but it is inferred to be present under a hopefully-thin cover of upper-plate rocks. Mineralized structures in this overlying rock could indicate the presence of a disseminated gold ore body beneath the thrust sheet.

It is felt that good gold prospects are not common in the Central Nevada Gold Belt. This property is a good prospect, and Union Pacific should acquire the ground and initiate an exploration program.

INTRODUCTION

The Tempo claims were submitted to this company in July, 1968. Preliminary work was done in August and final work was completed in October of 1968. The claim group is one of a six-property package submitted by Lyle F. Campbell of Reno, Nevada.

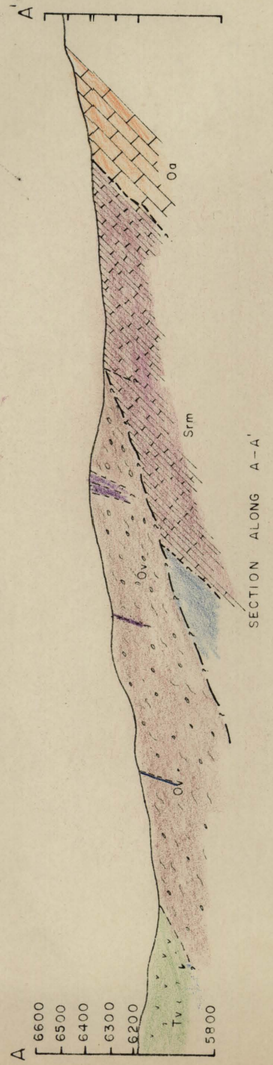
LOCATION

The Tempo claims are located in the southern part of the Ravenswood Mining District about 14 miles northwest of Austin, Lander County, Nevada. (See Location Map in Appendix.) The Ravenswood District covers the southern end of the Central Shoshone Mountains, a northeast-trending mountain range bounding the western side of the Reese River Valley.

LAND STATUS

Twenty unpatented mining claims covering the area of interest are held by Lyle F. Campbell. His ground is bounded on the west by a claim group held by R. B. Kunkel of Salt Lake City, Utah.


A'
A
Srm
Ov
Oa
Tv
Ti
N
38
40
42
44
46
39
41
43
45
47
78
80
82
84
86
2639
2658
2657
2656
2660
2655
2654
2653
2652
2651
2661
2663
2664
2677
2676
2675
2674
2673
2665
2666
2672
2671
2669
2670
2679
2678
50°
45°



SECTION ALONG A-A'

161
Item 2

EXPLANATION

Ti — TERTIARY RHYOLITE

Tv — TERTIARY ANDESITE

LOWER PLATE ROBERTS MOUNTAINS THRUST

Srm — SILURIAN ROBERTS MOUNTAINS FORMATION

Oa — ORDOVICIAN ANTELOPE VALLEY FORMATION

UPPER PLATE ROBERTS MOUNTAINS THRUST

Ov — ORDOVICIAN VALMY FORMATION

THRUST FAULT (teeth on upper plate)

FAULT

45° — STRIKE AND DIP OF BEDS

BARITE — QUARTZ VEIN

2670 — GEOCHEMICAL SAMPLE LOCATION

TEMPO CLAIMS

SOUTHERN RAVENSWOOD DISTRICT

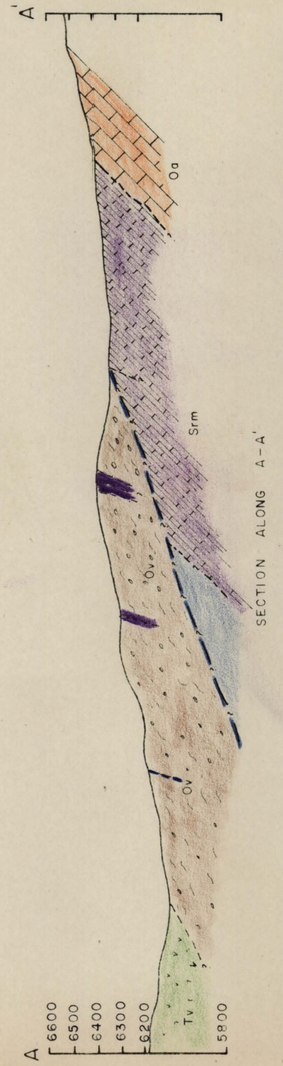
LANDER COUNTY, NEVADA

1" = 500'

December, 1968 J.V.T.

38100017

159
Item 20



SECTION ALONG A-A'

EXPLANATION

Ti — TERTIARY RHYOLITE

Tv — TERTIARY ANDESITE

LOWER PLATE ROBERTS MOUNTAINS THRUST

Srm — SILURIAN ROBERTS MOUNTAINS FORMATION

Oa — ORDOVICIAN ANTELOPE VALLEY FORMATION

UPPER PLATE ROBERTS MOUNTAINS THRUST

Ov — ORDOVICIAN VALMY FORMATION

THRUST FAULT (teeth on upper plate)

FAULT

45° — STRIKE AND DIP OF BEDS

BARITE — QUARTZ VEIN

2670 — GEOCHEMICAL SAMPLE LOCATION

TEMPO CLAIMS

SOUTHERN RAVENSWOOD DISTRICT

LANDER COUNTY, NEVADA

1"=500'

December, 1968 J.V.T.

PLATE I - GEOLOGIC MAP WITH GEOCHEMICAL OVERLAYS

3810 0017

TERMS OF ACQUISITION

Campbell is asking for an advance royalty of $3,000 for a six-month option. In addition, he is asking monthly payments of $500. The option can be extended for an additional six months if the annual assessment work is done on the claims, and of course, the payments of $500/month are continued. For the second year, monthly payments increase to $1,000, and rise to $1,500/month for a third year.

An end price of $2,500,000 has been set, but it may be possible to establish a sliding-scale price, depending upon the time in which an option would be exercised. Royalties would be 5% of net smelter returns, or 4% of net mint returns, whichever the case may be.

Other general lease terms would follow our previous mining lease with Campbell on the Gull prospect.

GENERAL GEOLOGY

The Tempo claims cover the eastern portion of a small window in the Roberts Mountains thrust sheet. The trace of the thrust fault passes through the center of the claim group and disappears under volcanic flows

to the east. Below the thrust sheet, the Roberts Mountains formation and the underlying Antelope Valley formation crop out. Both formations are moderately folded, but the general strike is northeast with a 45°-50° dip to the southwest. The lower-plate rocks are bleached and the shaley units have been altered to hornfels.

The Valmy formation forms the upper plate of the thrust sheet. It consists of highly contorted, thin-bedded quartzites and chert. The siliceous rocks are fractured and iron stained at the thrust contact and at the points where northeast-trending faults intersect them. Small brick-red baked zones have formed in the Valmy around three rhyolite intrusive masses in the southern portion of the area.

Tertiary volcanic flows, mainly andesite, form the eastern and southern boundaries of the area. Although the northeast-trending fault system can be traced into the flow rocks, they are not visibly altered or mineralized.

STRUCTURE

Two important regional structures pass through the Ravenswood District. The district lies within the well-defined Lovelock-Austin mineral belt, (as defined by Ralph J. Roberts.) Doming along this northwest structural trend is inferred to be responsible for the uplift and subsequent formation of the Ravenswood window in the thrust sheet.

A series of parallel northeast faults cut both upper- and lower-plate rocks in the area. These structures appear to be related to mineralization, as numerous barite veins with associated silver and gold occur along them. Rhyolite intrusives which cut upper-plate rocks in the southern claim area also line up in a northeast direction and no doubt were intruded along a northeast-trending zone of weakness.

MINERALIZATION

The only obvious mineralization on the claim group occurs associated with a barite vein in the southeast corner of Tempo 40. The vein cuts lower-plate rock, is six inches to two feet in width, and is stained copper stained along

random fractures. Campbell has obtained good gold and silver assays from selected specimens taken on the dump of an old shaft. The shaft was sunk in the early 1900's to exploit the gold-rich portions of the vein.

Smaller barite veins can be found southwest of the shaft in the upper-plate Valmy outcrop. In the center of Tempo 9, a dozer trench cut in thrust breccia has exposed a barite vein with limonite-filled sulfide casts within it. The color of the limonite and shape of the cavities suggest that the leached sulfide was galena. South of this on Tempo 9, and also on Tempo 78, barite veinlets form wide stock works in the fractured upper-plate rocks.

METHOD OF INVESTIGATION

To aid in evaluating this prospect, a sketch geologic map was prepared. Geochemical samples were taken in both upper- and lower-plate rocks. These samples were analyzed for gold, arsenic, mercury, antimony, and silver.

The results of this sampling are shown on transparent overlays for the geologic map.

J. V. Tingley

JVT:cm

SAMPLE DATA SHEET

SL-FORM 1

Collector JT Area Tempe Claims Map Lander Co. Base file Date 8/1/68 L

Sample No.	Type	Location	Sample Environment	Sample Description	Geological notes & remarks	Analytical Results
2095	R		Dozer Trench, E. 12'	Upper plate Rock	Fault zone, N60°-65°W, near vertical, possibly "Roberts Mt." fault. Black chert & silic limestone. Considerable limonite staining. Campbell # 556-557	V see analysis sheet
2096	R		" W. 10'	Silic. limestone	Green-brown silicified limestone, maroon hematite, thin barite veinlets	V
2097	R			Fault zone	Fault zone in Vinini Fm w/ barite	L

SAMPLE DATA SHEET

Collector J. Tingley Area Tempo Map _____ Date 10/21/68

Sample No.	TYPE	Location	Sample Enviroment	Sample Description	Geological notes & remarks	Analytical Results
2651	R		Outcrop	Siltstone	Fault zone, N45°E, 60°SE, 10' wide, sample to structure, bleached, kaolinized siltstone, barite vein w/ Fe staining 16" wide, pinching out upward	
2652	R		Outcrop	Siltstone	Bleached, kaolinized siltstone, minor limonite films on fracture surfaces, bedding N25°E, 35°SE	
2653	R		Outcrop	Opalite	Massive white opalite, N80°W, Vertical, near kaolinized dike	
2654	R		Outcrop	Porphyry Dike	Kaolinized dike, sugary white quartz, fresh appearing biotite, spots of limonite staining	
					Indistinct outcrop downslope from opalite	
2655	R		Outcrop	Hornfels	Bleached HF, near indistinct N20°E shear zone w/ massive fn-gr barite	
2656	R		Outcrop	Hornfels	Prospect pit near Svm-Tv contact, greenish silicified Tv & bleached Svm, poss. structure, some fe stn.	
2657	R		Outcrop	Hornfels	Bleached hornfels, prospect pit 50' west of W.S.CTR. Tempo 38	
2658	R		Outcrop	Hornfels	Disc. cut, Stan 11, Dense fn-gr HF, cherty, appears to be Vinini fm (?)	
2659	R		Outcrop	Hornfels	Bleached Vinini fm, dense, cherty Frac. coated with minor Fe st. – Disc cut, Stan 17	
2660	R		Outcrop	Quartzite	Tan-pink, fn-grained silicified quartzite, pink orthoclase dots, some silica veinlets	
2661	R		Outcrop	Limestone	Disc. cut, Tempo 38 (Campbell Sample 1671) Bleached, recrystallized ls., thin-bedded grey-green to white, knots of xline-black calcite possibly	
					replacing fossil remains (?). N20°E, 75°W Frac. coat, kaolinized & bleached on both sides, bedding N60E, 50°SE	
2662	R		Outcrop	Calcite veins	50' w of $\frac{38/39}{37/a1}$, white xline calcite veinlets in black & bleached white, thin-bedded ls., some barite	
2663	R		Outcrop	Barite Vein	Massive white barite vein 30' NE of shaft in small cut, vein 2' wide, sheared-bleached walls, strike N25°E, 80° E dip	
2664	R		Outcrop	Hornfels-Andesite	10' dia. 5' deep prospect pit 200' SW of disc. mon Tempo 41, E. side bl. HF, W side Alt. Volcanics	
2665	R		Outcrop	Siltstone	Orange-tan siltstone w/ caliche, calcite veinlets 1"-2" beds, strike N35E, vert, poss fault contact.	
2666	R		Outcrop	Siltstone	20' east of 2665, bleached siltstone & shale, contorted.	

SAMPLE DATA SHEET

Collector J. Tingley Area Tempo Claims Map _____ Date 10/21/68

Sample No.	Type	Location	Sample Environment	Sample Description	Geological notes & remarks	Analytical Results
2667	R		Outcrop	Vinini Fm.	Cut, Campbell #1666, kaolinized Vinini Fm. along shear zone, N25°E, vert, white w/ limonite along frac.	
2668	R		Outcrop	Vinini - Tv.	Brick red hematite zone in Vinini near Tv dike (Campbell #1665)	
2669	R		Outcrop	Rhyolite dike	Porphyritic biotite rhyolite dike, shiny black fresh biotite books, coarse qz, granular outcrop, mod. kaol.	
2670	R		Outcrop	Vinini	Breccia zone in Vinini near dike contact, general strike ~~contact~~ N25E, vert, silicified core, Brkd jsp. pale limonite	
2671	R		Outcrop	Veins in Vinini	N 40°E stockworks in mod. bleached Vinini Fm. 1"-2" limonite + Qtz veinlets N40°E + ⊥, some random	
2672	R		Outcrop	Barite stockworks	Barite stockwork, massive white crumbly white barite 2' wide in 15'-20' shattered zone, other barite veins red-brown & cinn. brown "gossan" in shat. zone.	
2673	R		Outcrop	Vinini Fm.	Bleached zone, black Vinini to West, bleached Vinini to East, heavy pulverent limonite coating (Campbell #1631)	
2674	R		Outcrop	Vinini Fm.	Limonite st., crushed Vinini w/ barite + Qtz veins, on trend of thrust (Thrust breccia ?)(Campbell #1663)	
2675	R		Outcrop	Breccia	Crushed zone, possible thrust breccia, barite vein in Fe stained Vinini	
2676	R		Outcrop	Siltstone	Maroon siltstone w/ limonite along fractures, minor silica veinlets, below breccia, bedding N60°E, 65°SE. thin-bedded (Campbell 1661)	
2677	R		Outcrop	Barite	Barite stockworks, small prospect pit N. of road. Fe stained barite veins & pods.	
2678	R		Outcrop	Vinini Fm.	Wash north of main barite road, Fe stained contorted Vinini near Tv contact.	
2679	R		Outcrop.	Vinini Fm.	Shear zone w/ crushed barite & Fe stained Vinini south of "dike"	

SEP 5 1968

SKYLINE LABS, INC.
SPECIALISTS IN GEOCHEMICAL EXPLORATION
12090 WEST 50TH PLACE, WHEAT RIDGE, COLORADO 80033 TEL (303) 424-7718

REPORT OF ANALYSIS

August 31, 1968

Job No. 3102

Natural Resources Division
Union Pacific Railroad Company
One East First Street, Room 801
Reno, Nevada 89501

Attention: Mr. J. V. Tingley

18 Rock Chip Samples

Item	Sample No.	Au (ppm)	Cu (ppm)	As (ppm)	Hg (ppm)	Sb (ppm)	
1.	R-2095	.14	55	1000	.04	8	Temp claims
2.	R-2096	.40	30	8000	.03	<1	
3.	R-2097	<.02	25	160	.04	<1	
4.	R-2098	.04	5	40	.02	2	Stat claims
5.	R-2099	<.02	35	80	.03	<1	
6.	R-2100	.02	20	700	.02	<1	
7.	R-2601	<.02	10	10	.68	<1	
8.	R-2602	<.02	25	550	.48	4	
9.	R-2603	.35	110	400	.11	<1	
10.	R-2604	.04	55	160	.22	2	
11.	R-2605	.32	80	150	1.0	1	Dan't claims
12.	R-2606	.02	55	400	.68	4	
13.	R-2607	.06	40	800	.36	8	
14.	R-2608	.04	65	500	.20	1	
15.	R-2609	.36	75	4000	.10	6	
16.	R-2610	.14	70	2000	.22	1	
17.	R-2611	<.02	25	800	.40	60	
18.	R-2612	.03	20	200	.16	120	

for Edwin V. Post
Charles E. Thompson
Chief Chemist

NOV 7 1968

SKYLINE LABS, INC.
SPECIALISTS IN GEOCHEMICAL EXPLORATION
12090 WEST 50TH PLACE, WHEAT RIDGE, COLORADO 80033 TEL.: (303) 424-7718

REPORT OF ANALYSIS

Job No. 3121
November 5, 1968

Union Pacific Railroad Company
Natural Resources Division
One East First Street, Suite 801
Reno, Nevada 89501

Attention: Mr. J. V. Tingley

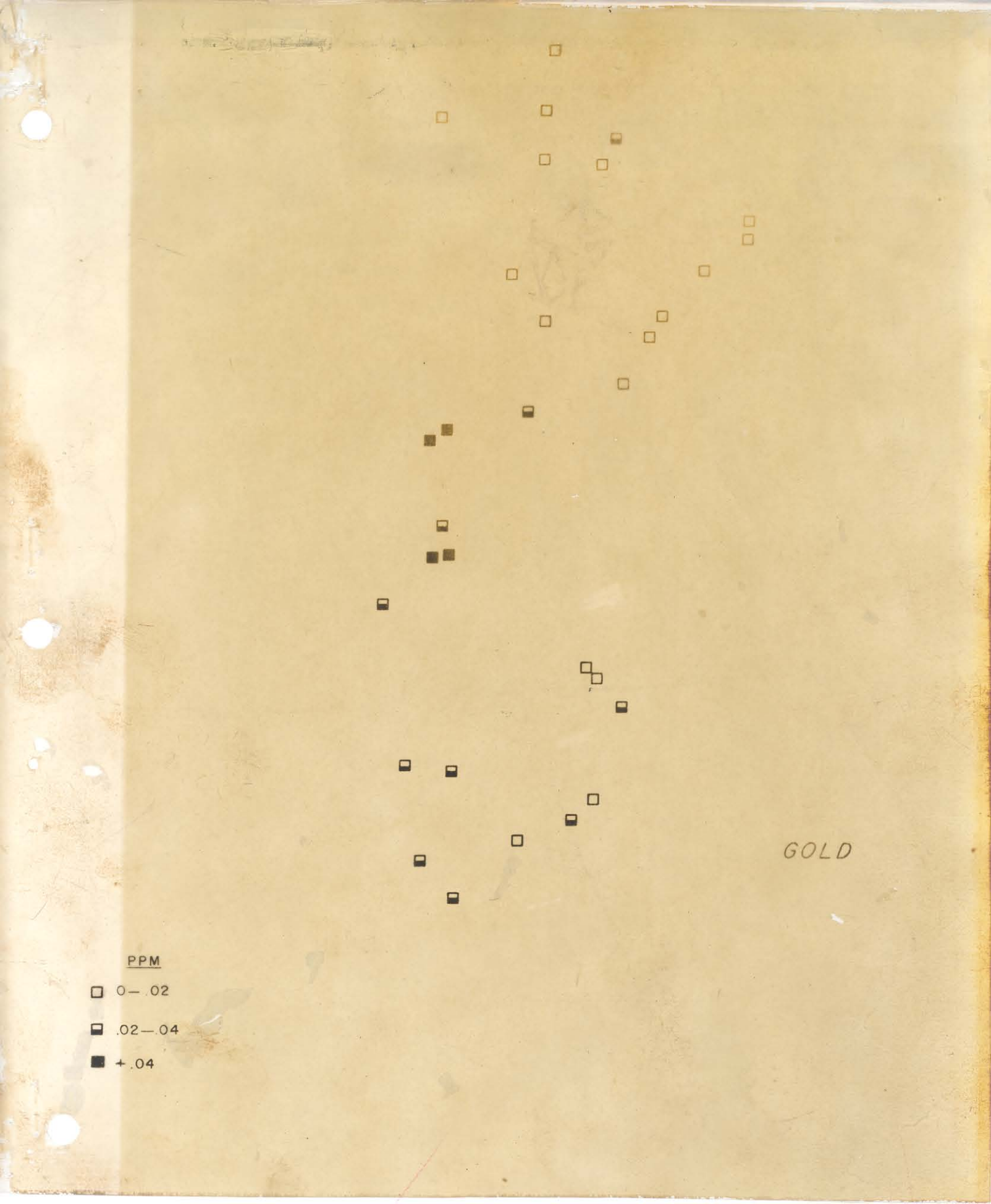
51 Rock Chip Samples

Item	Sample No.	Au (ppm)	Ag (ppm)	As (ppm)	Hg (ppm)	Sb (ppm)
1.	R 2651	.02	1.4	40	.02	2
2.	R 2652	<.02	2.8	40	.02	2
3.	R 2653	<.02	.4	10	.02	2
4.	R 2654	<.02	<.2	20	.02	<1
5.	R 2655	<.02	.4	20	.01	<1
6.	R 2656	.06	1.2	20	.01	<1
7.	R 2657	<.02	<.2	30	.02	2
8.	R 2658	<.02	.2	20	.01	2
9.	R 2659	.02	<.2	30	.02	<1
10.	R 2660	<.02	<.2	20	.05	2
11.	R 2661	.02	<.2	30	.02	4
12.	R 2662	.02	.8	10	.02	1
13.	R 2663	<.02	6.0	20	.02	1
14.	R 2664	<.02	<.2	80	.02	8
15.	R 2665	<.02	<.2	120	.08	8
16.	R 2666	<.02	<.2	60	.05	3
17.	R 2667	.04	<.2	100	.02	4
18.	R 2668	.04	.2	40	.04	4
19.	R 2669	.02	<.2	20	.02	<1
20.	R 2670	.02	.4	140	.84	6
21.	R 2671	.04	.2	750	.14	3
22.	R 2672	.04	<.2	400	.40	10
23.	R 2673	.04	.8	120	.11	15
24.	R 2674	.08	.4	400	.21	8
25.	R 2675	.08	2.0	100	.24	12

Item	Sample No.	Au (ppm)	Ag (ppm)	As (ppm)	Hg (ppm)	Sb (ppm)
26.	R 2676	.06	.2	300	.04	<1
27.	R 2677	.04	.4	100	.03	15
28.	R 2678	.04	.4	40	.10	<1
29.	R 2679	.06	.2	100	.10	8
30.	R 2680	.04	-	10	.08	12
31.	R 2681	.02	-	300	.06	3
32.	R 2682	.06	-	800	.15	2
33.	R 2683	<.02	-	10	.03	<1
34.	R 2684	.02	-	80	.24	4
35.	R 2685	.06	-	200	.18	10
36.	R 2686	<.02	-	160	1.0	8
37.	R 2687	.04	-	280	1.1	8
38.	R 2688	.02	-	100	.28	2
39.	R 2689	.06	-	80	.46	<1
40.	R 2690	.12	-	1400	.16	10
41.	R 2691	.12	-	2800	1.7	60
42.	R 2692	<.02	.8	20	.07	8
43.	R 2693	.02	<.2	20	.04	4
44.	R 2694	<.02	<.2	10	.05	<1
45.	R 2695	.02	<.2	10	.02	<1
46.	R 2696	.02	<.2	10	.04	<1
47.	R 2697	.04	<.2	120	.07	<1
48.	R 2698	.02	<.2	40	.05	2
49.	R 2699	.04	<.2	20	.02	<1
50.	R 2700	<.02	<.2	<10	.02	2
51.	R 8963	<.02	<.2	<10	.01	<1

Charles E. Thompson
Charles E. Thompson
Chief Chemist

cc: Mr. P. A. Meyer


GOLD
PPM
0—.02
.02—.04
+.04

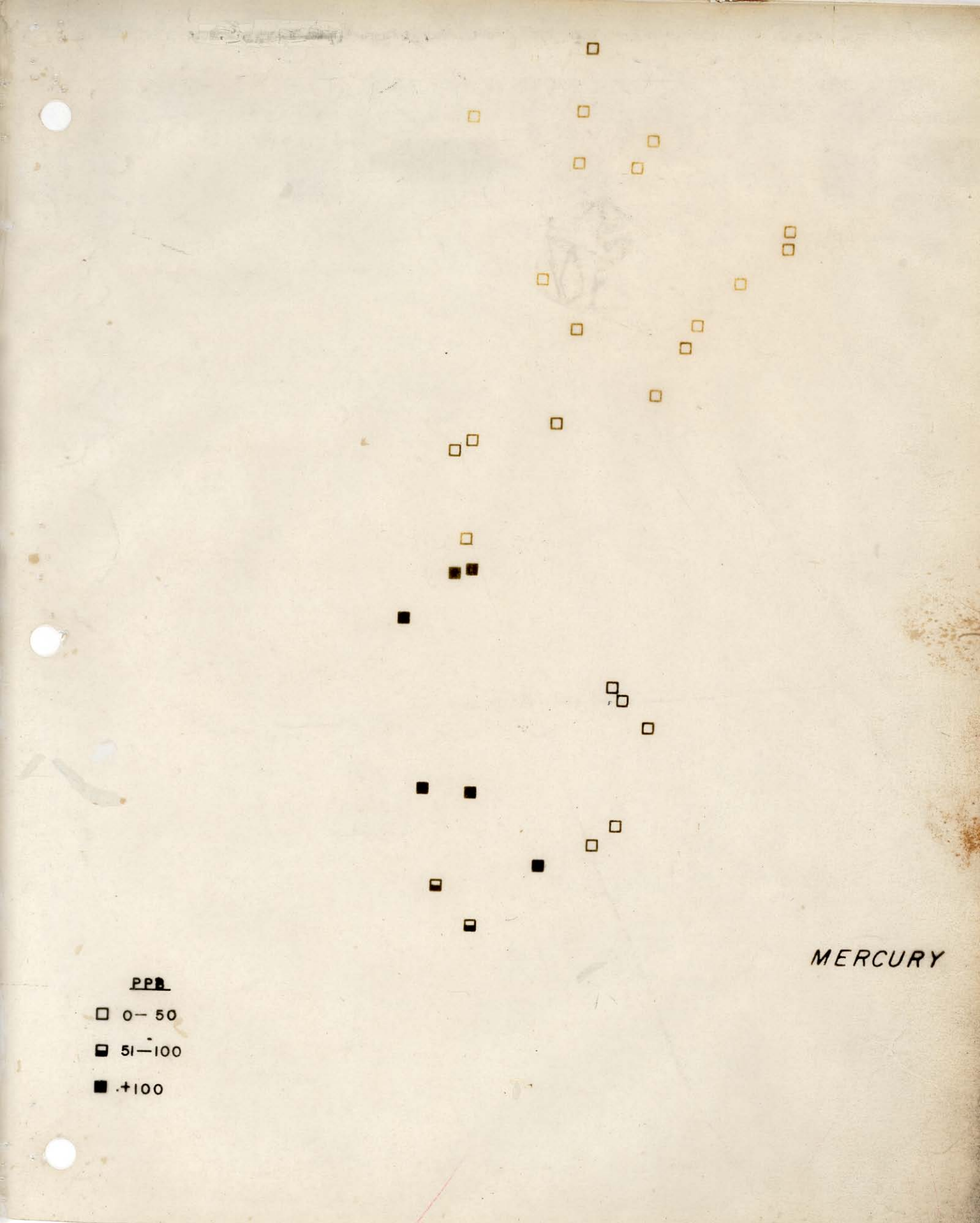
ARSENIC

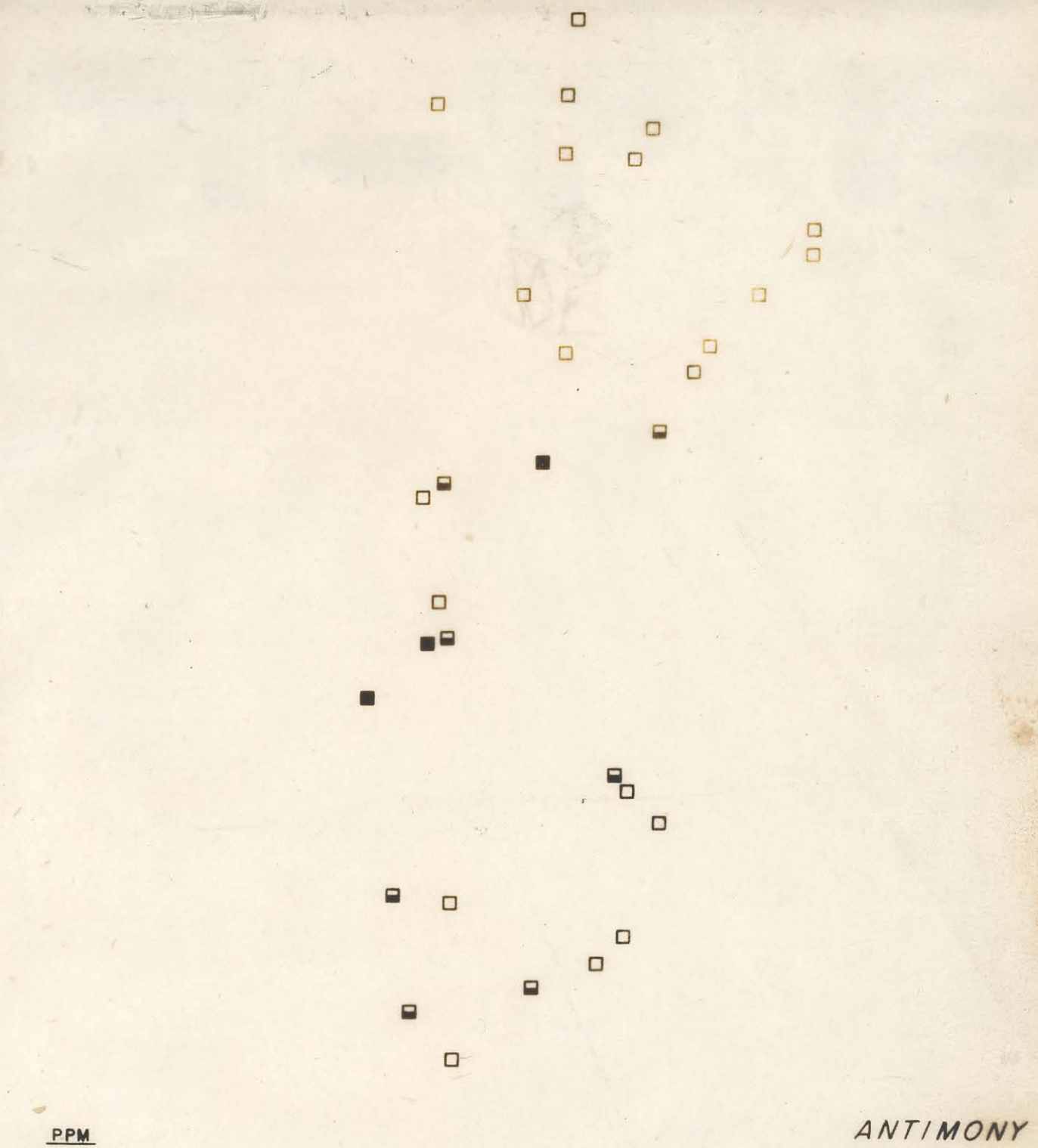
PPM

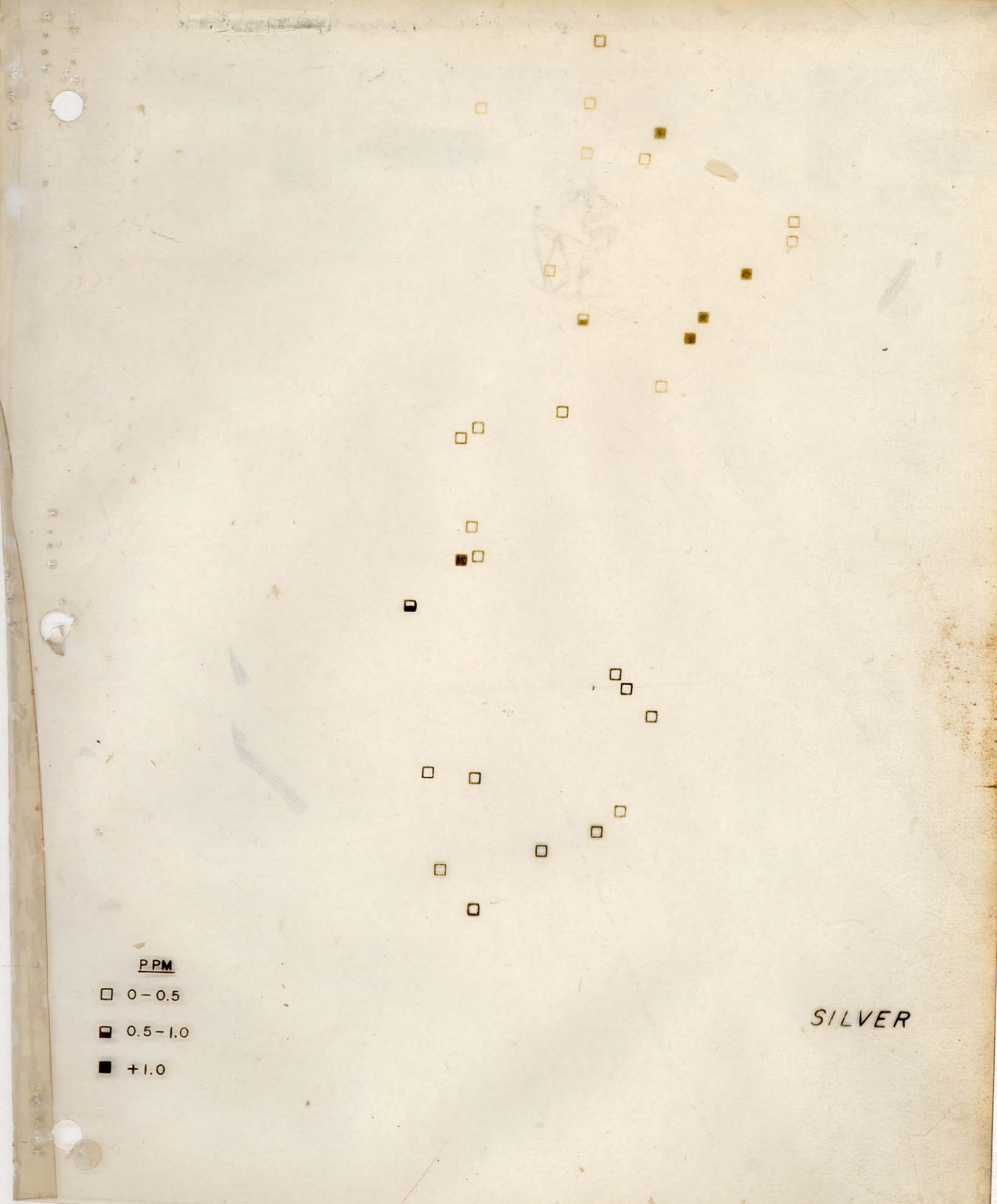
□ 0 – 50

▬ 51 – 100

■ +100


MERCURY
PPB
0— 50
51—100
+100


PPM
0 – 5
6 – 10
+ 10
ANTIMONY


PPM
0 – 0.5
0.5 – 1.0
+1.0
SILVER

TEMPO PROSPECT, SHOSHONE RANGE

LANDER COUNTY, NEVADA

INTRODUCTION

The Tempo prospect was discovered April 9, 1968, by Lyle F. Campbell. A general reconnaissance of the area was made and rock samples were assayed for gold and silver.

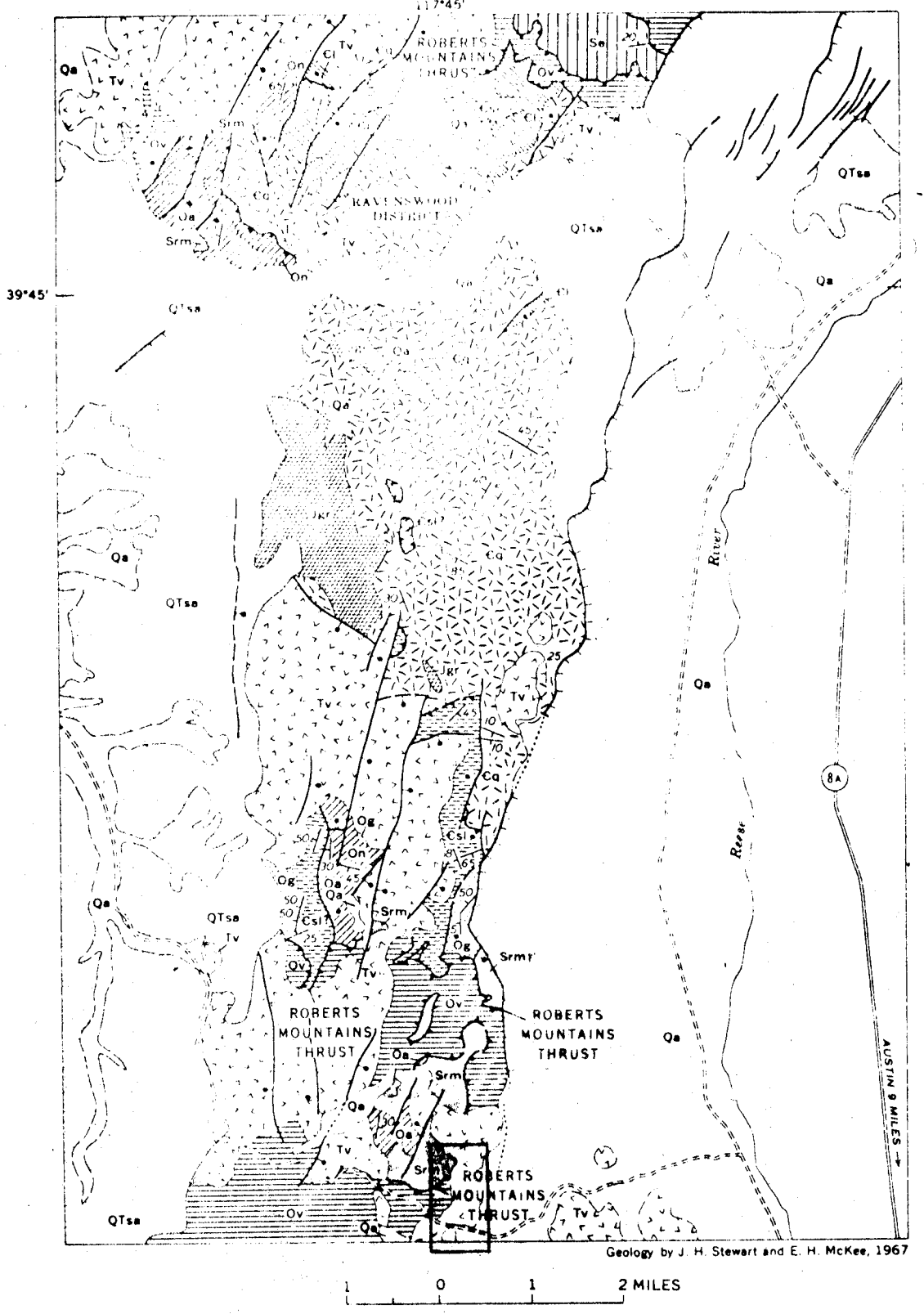
LOCATION

The Tempo prospect is located in the north center of Township 20 North, Range 42 East. Going west out of Austin, proceed north on Nevada 8A about nine miles from Austin. Go west on a good gravel road for 5.3 miles. A poor road goes north up a short rise to a typical sheepherder's campsite. A fair road leads out of this area northwesterly to an old mine shaft which is in the northwest part of the claim group.

MINING HISTORY

Local natives say the shaft was sunk on a gold vein by a nearby rancher named Malloy in the early 1900's. Gold was produced intermittently, but total production must have been small. The area is pock-marked with ancient prospect pits, and ancient claim corners are found in the wide area of alteration surrounding the shaft. The Ravenswood district is located 10 miles north. The Skookum district is 6 miles south. A currently producing barite open pit mine is located 3 miles north.


O (EAST)
15'
R 42 E
R 43 E
117°00'
R 45 E
ANTELOPE VALLEY
SHOSHONE RANGE
CARICO LAKE VALLEY
Reese River
Hall Creek Ranch
Vaughn Ranch
Silver Creek Ranch
Cattle's Ranch
MT CALLAGHAN
Gilberts Creek
Manganese
Burtons Ranch
Hilltop Ranch
Whitakers Ranch
TOIYABE NATIONAL
FOREST
MT PROMETHEUS
Austin
Austin Summit
Numerous springs
LOCATION OF TEMPO PROSPECT
Scale: 1 inch = 4 miles
(Adapted from USGS two degree Millett Map)



Geologic map of the Ravenswood window, Shoshone Range, showing the area of the Tempo prospect. (from Stewart and McKee, 1968)

LAND STATUS

A search of B.L.M. records showed the land was public domain open to mineral entry. No patents have been issued. There was no evidence of currently valid unpatented mining claims. The most recent location notice found was dated 1953. The group consists of 20 contiguous claims. It was my intention to locate an additional strip of ground to the west, but R. B. Kunkel, et al., located their Stan group and overlapped Tempo from the west during the claim staking rush in southern Lander County in May. Considering its proximity to Austin and the tenor of the gold values at the Malloy shaft, it is remarkable that no location notices were hung at the shaft.

MINERALIZATION

In the area of the Shoshone Range between Tempo and the Ravenswood district, small lenslike quartz veins carrying silver and a little gold with secondary copper minerals are fairly common.

In the limited amount of sampling which has been done to date, anomalous gold was found only in the shaft dump and outcropping vein nearby and in a bulldozer pit dug in a highly altered section of the Valmy Formation. Trace element analysis by Rocky Mountain Geochemical Corporation and Skyline Labs, Inc., were as follows: (in ppm)

A. Shaft dump and nearby vein.

Sample No.	Au	Ag
874	29	92
1439	18	300

Sample No.	Au	Ag
1440	.15	6.8
1441	.17	36

B. Bulldozer pit in Valmy Formation.

Sample No.	Au
1657	.12
1658	.25
1659	.80
1660	.15

Chip sample, east half of pit.

Sample No.	Au	Cu	As	Hg	Sb
2095	.14	55	1,000	.04	8

Chip sample, west half of pit.

Sample No.	Au	Cu	As	Hg	Sb
2096	.40	30	8,000	.03	Nil

EXPLORATION

Physical exploration to date consists of access roads and bulldozer prospect pits. This work was done to satisfy location work requirements.

DISCUSSION

The mine shaft is located on, or very close to, the thrust fault zone between the Silurian Roberts Mountain Formation and the overriding Ordovician Valmy Formation. The east part of the group is covered by an apparently thin mantle of volcanic flow rock. The south part of the group has both volcanic rock and

Valmy Formation outcropping. Roberts Mountain Formation outcrops in the northwest part of the group.

The Roberts Mountain Formation is extremely altered and bleached. One observer calls it contact metamorphic alteration, indicating the possibility of a shallow buried intrusive.

The Valmy Formation is also altered with intense, pervasive iron staining and occasional silicification.

The intense alteration, anomalous gold, and proximity of the Roberts Mountain Formation to the major thrust fault make this a prospect worthy of further exploration for a Carlin-type gold deposit. The alteration seems to intensify going east to the edge of the volcanic cover. The best gold mineralization is located at the edge of that cover. One or two drill holes through the volcanic rock could prove to be very interesting.

Lyle F. Campbell