

0090 0002

Lander Co.
Item 4

Lander & Eureka
Cos.

M.D. 120, 155,
160, 161

CAMPBELL PROSPECTS (GOLD)
EUREKA AND LANDER COUNTIES, NEVADA

by
J. V. Tingley

Reno, Nevada September 16, 1968

Lander County
Page 4
Reno, Nevada - October 1, 1968

P. A. Meyer - Salt Lake City

Re: Campbell Prospects (Gold)
Eureka and Lander Counties, Nevada

Please find attached a report prepared by
J. V. Tingley relating to properties submitted to the
Natural Resources Division by Lyle Campbell.

The five properties involved are presented as
a group at an advance on royalty of \$3,000.00 per
property for a six-month option. A larger advance
would be required should we take separate properties.

I do not recommend that we option the group as a unit,
particularly since Homestake has taken an extensive look
at one property, the Pat Prospect. The Stat and Dart
claims are geologically attractive, but require more
work before I would recommend an expenditure of between
\$8,000.00 - \$10,000.00 for a six-month option.

The possibility of our looking closely at these
prospects within the next few months is remote. Therefore,
I suggest that we do nothing with these properties at
this time and that we notify Lyle Campbell that at some

P. A. Meyer - Salt Lake City
Re: Campbell Prospects (Gold)
Eureka and Lander Counties, Nevada

October 1, 1968

Page 2.

future date we will visit the properties for additional
work.



R. J. Anctil

RJA:cm

Distribution:

Los Angeles - (2) - S.S. Merwin
L.A.M.D.F. - (1)
Salt Lake City - (2)
Reno - (2)

CAMPBELL PROSPECTS (GOLD)
EUREKA AND LANDER COUNTIES, NEVADA

by

J. V. Tingley

Distribution:

Los Angeles - (2) - S.S. Merwin
L.A.M.D.F. - (1)
Salt Lake City - (2)
Reno - (2)

Reno Nevada

September 16 1968

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APPENDIX

LOCATION MAP

GEOLOGIC MAP, STAT CLAIMS (155) Lander

GEOLOGIC MAP, TEMPO CLAIMS N. of (161) Lander

GEOLOGIC MAP, DART CLAIMS N. of (160) Lander

GEOLOGIC MAP, SHIRL CLAIMS (120) Eureka

SAMPLE DATA SHEETS

REPORTS OF ANALYSIS

RECOMMENDATIONSCondition 1.

Assuming the company is willing to pay an advance royalty, the amount to be negotiated:

- a) Two to three days mapping and sampling is recommended for each property.
- b) Any properties showing promise after this initial examination should be optioned.
- c) Should the initial work on any or all properties be entirely negative, those properties would not be acquired.

Condition 2.

Assuming the company is not willing to consider a cash advance royalty, no additional work should be done on any of the prospects.

INTRODUCTION

Late in July, 1968, Lyle F. Campbell of Reno, Nevada submitted a total of five disseminated gold prospects to this company.

All of these prospects are located on or near "windows" in the Roberts Mountains thrust zone. Campbell reports anomalous gold geochemical results from all properties.

Three of these prospects were examined in a reconnaissance fashion. Another had been visited prior to its submittal. The remaining prospect was unsuccessfully explored by Homestake Mining Company in 1967, and was not examined in the field.


PROPERTY DESCRIPTIONS



Stat Claims, Kingston Canyon Area:


The Kingston Canyon Area is in the eastern part of the Toiyabe Range about 20 miles south of Austin.

Campbell's Stat Claims are in the vicinity of Sec. 11, T. 15 N., R. 43 E., Lander County, Nevada. (155)

The Roberts Mountains formation ~~here~~ occurs as the upper plate of the Kingston Canyon thrust, overriding middle and upper Cambrian rocks. Prospecting has been confined to


a system of quartz-carbonate veins, containing barite and minor stibnite. 


 These are exposed near the base of the thrust plate, and it is not known if they pass through the fault into the underlying rocks. 

 The rocks are not noticeably altered, and coloration is very weak. It is suspected that Campbell's gold anomaly was obtained from select vein material.

One interesting fact concerning this property is a high arsenic value obtained from an intrusive rock near the northern claim boundary. The 700 ppm As value from a fine-grained, ^{altered} diorite ~~dike~~ could be significant. At other gold properties (Carlin, Bootstrap, Gold Acres) dike rocks are thought to be related to the gold mineralization.

Tempo Claims, Southern Ravenswood District:

The Ravenswood District is located in the central Shoshone Mountains, on the west side of the Reese River Valley about 15 miles northwest of Austin. The Tempo Claims are near Sec. 10, T. 20 N., R. 42 E., Lander County, Nevada. 

 In this window, the Roberts Mountains formation crops out in a fairly large area directly below the Roberts

Mountains thrust. In the claim area, the thrust breccia is deeply colored, and is cut by narrow quartz-barite veinlets. Samples taken from a dozer cut along the thrust zone were anomalous in both gold and arsenic.

Dart Claims, Mt. Callaghan Area:

Dart Claims are
The ~~Callaghan Window~~ ^{They} is in the Toiyabe Range about 15 miles north of Austin. ~~The Dart Claims~~ cover an area on the eastern slope of Mt. Callaghan near the common corner of Sections 33 and 34, T. 21^N, R. 45 E, Lander County, Nevada. N. of 160

This is the most interesting of the four properties examined in the field. The thrust breccia is rather thick, containing large blocks of both upper-plate Valmy formation and lower-plate Ordovician limestones. A highly-altered dike rock was noted in a cut near the center of the claim group. Nine of the ten samples taken on this prospect were anomalous in arsenic, four of these showed anomalous gold also.

Shirl Claims, Walthi Hot Springs Area:

The Shirl
~~This~~ ^{are} ~~claims~~ ^{the} group is located on Keystone Window in the north end of the Simson Park Mountains. Portions of Sections 33 and 34, T. 24 N., R. 48 E., Eureka County, 120

are covered by Campbell's claims.

~~Very little time was spent on this prospect, as it had not been presented to Union Pacific at that time.~~

~~All that can be said is that the area is geologically favorable.~~ The Roberts Mountains thrust is present and anomalous gold and arsenic values occur along it, *thus the area is geologically favorable.*

Pat Prospect, Simson Park Range:

This claim group is located in Section 20, T. 24 N., R. 49 E., Eureka County, Nevada. Homestake held this property under option during 1967, and conducted an extensive drilling and mapping program. Mineralization ^{is} ~~was~~ restricted to altered Devonian limestone and upper-plate Vinini formation near the margins of two small rhyolite intrusives. ~~Only~~ traces of gold were found. Drilling indicated that in this area, the Roberts Mountains thrust may be overturned, with siliceous western facies rocks underlying the carbonate outcrops.


TERMS OF ACQUISITION

The five properties listed were presented as a package. The terms listed are only tentative, as some of the points are, of course, open to negotiation.

The most important point is that a cash advance royalty payment is definite. If all the properties are not optioned, the terms would be higher for a smaller number of properties.

General Terms:

- 1) Advance royalty of \$3,000/per property (\$15,000 total) for a 6-month option.
- 2) At the end of the first six months, the assessment work must be done to hold the ground for an additional six months.
- 3) For the second year, an advance royalty of \$6,000/property must be paid.
- 4) Payments of \$1,000 per month per property must be made for the third year's option.

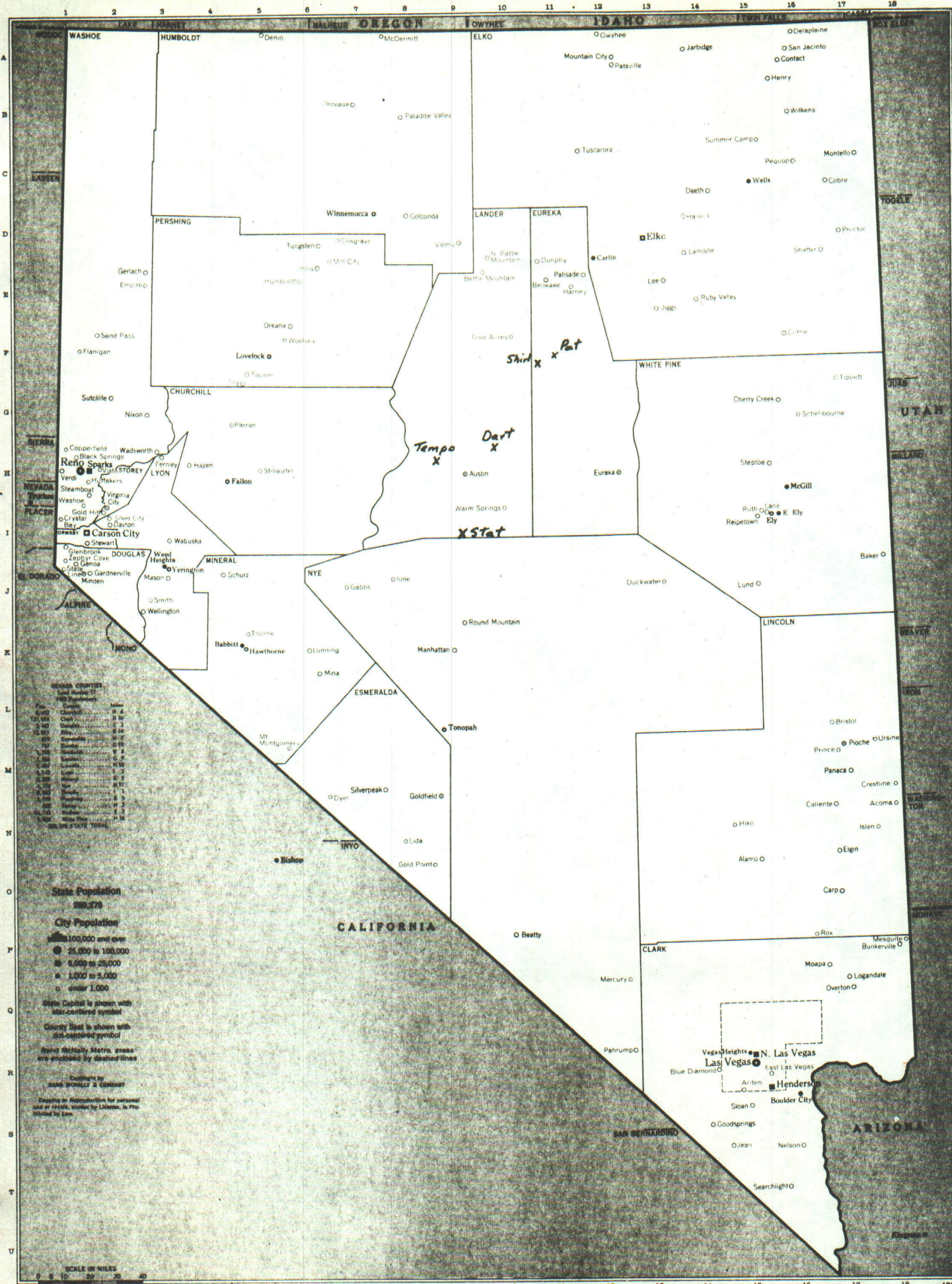


J. V. Tingley

JVT:cm

RAND McNALLY STATE COUNTY-CITY MAP

NEVADA
SIZE 8 1/2 x 11



NEVADA COUNTIES
Land Area in Sq. Miles

County	Land Area	Population
Washoe	2,200	175,000
Humboldt	1,100	15,000
Elko	1,100	15,000
Elk	1,100	15,000
Larder	1,100	15,000
Eureka	1,100	15,000
White Pine	1,100	15,000
Lincoln	1,100	15,000
Clark	1,100	15,000
San Bernardino	1,100	15,000
STATE TOTAL	110,000	2,000,000

State Population
2,000,000

City Population
 • 100,000 and over
 • 25,000 to 100,000
 • 5,000 to 25,000
 • 1,000 to 5,000
 • under 1,000

State Capital is shown with
star-centered symbol

County Seat is shown with
dot-centered symbol

Rand McNally Metro areas
are enclosed by dashed lines

Counties by
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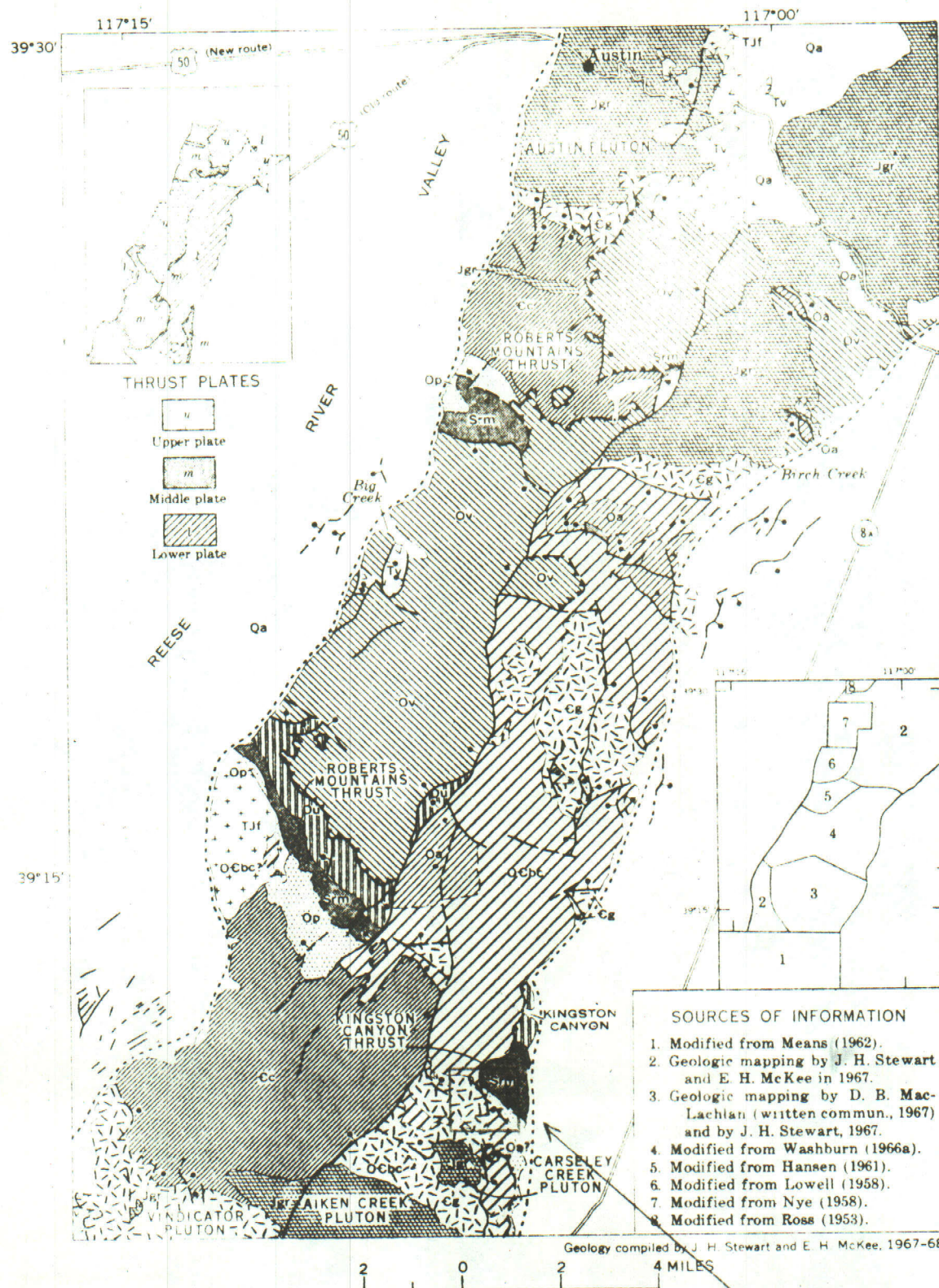


Figure 3.—Geologic map of the Toiyabe Range south of Austin.

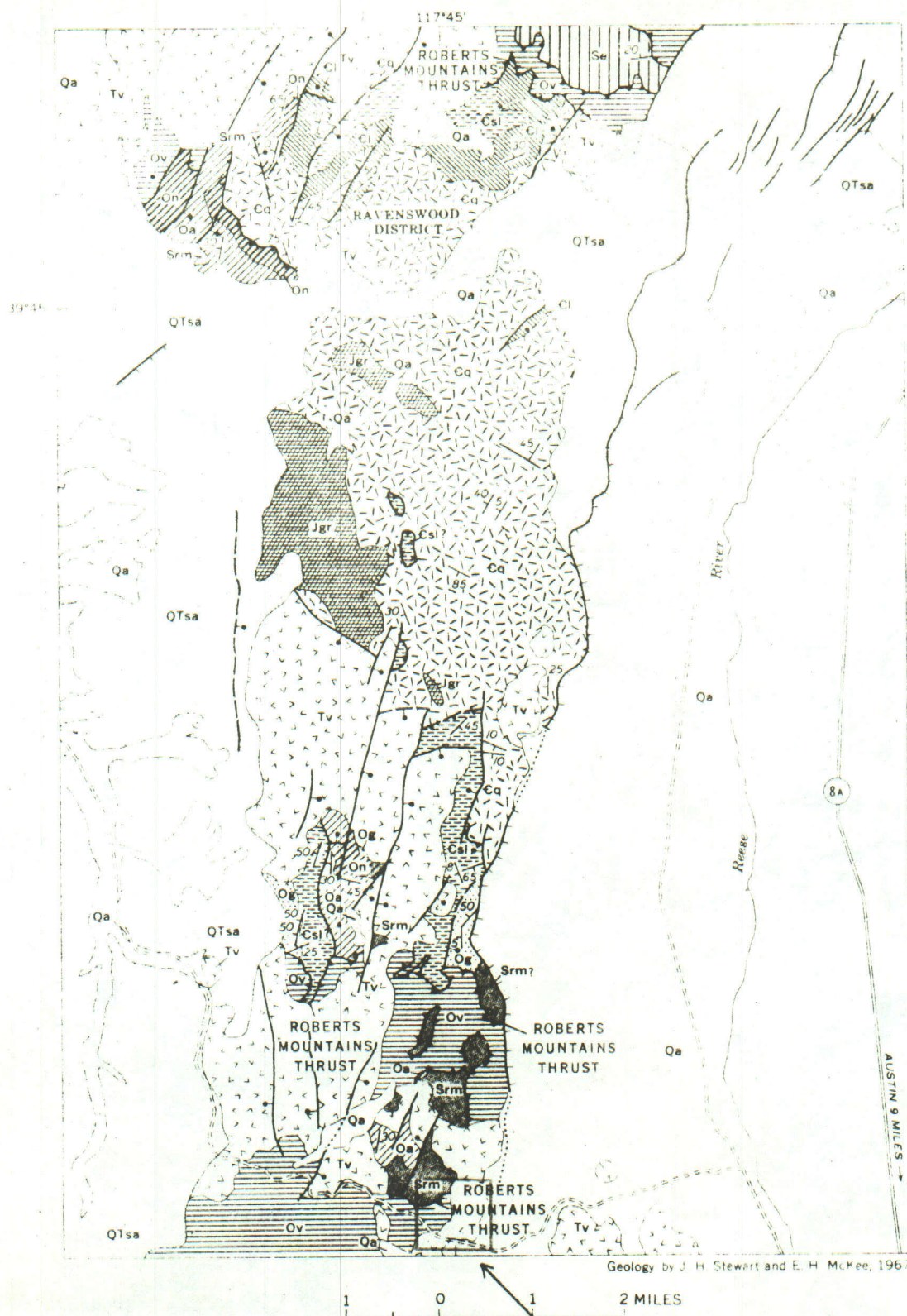


Figure 2.—Geologic map of the Ravenswood window, Shoshone Range.



FIGURE 2.—Geologic map of Callaghan window, Toiyabe Range, Lander County, Nev.

Approximate Outline
Dart Claims

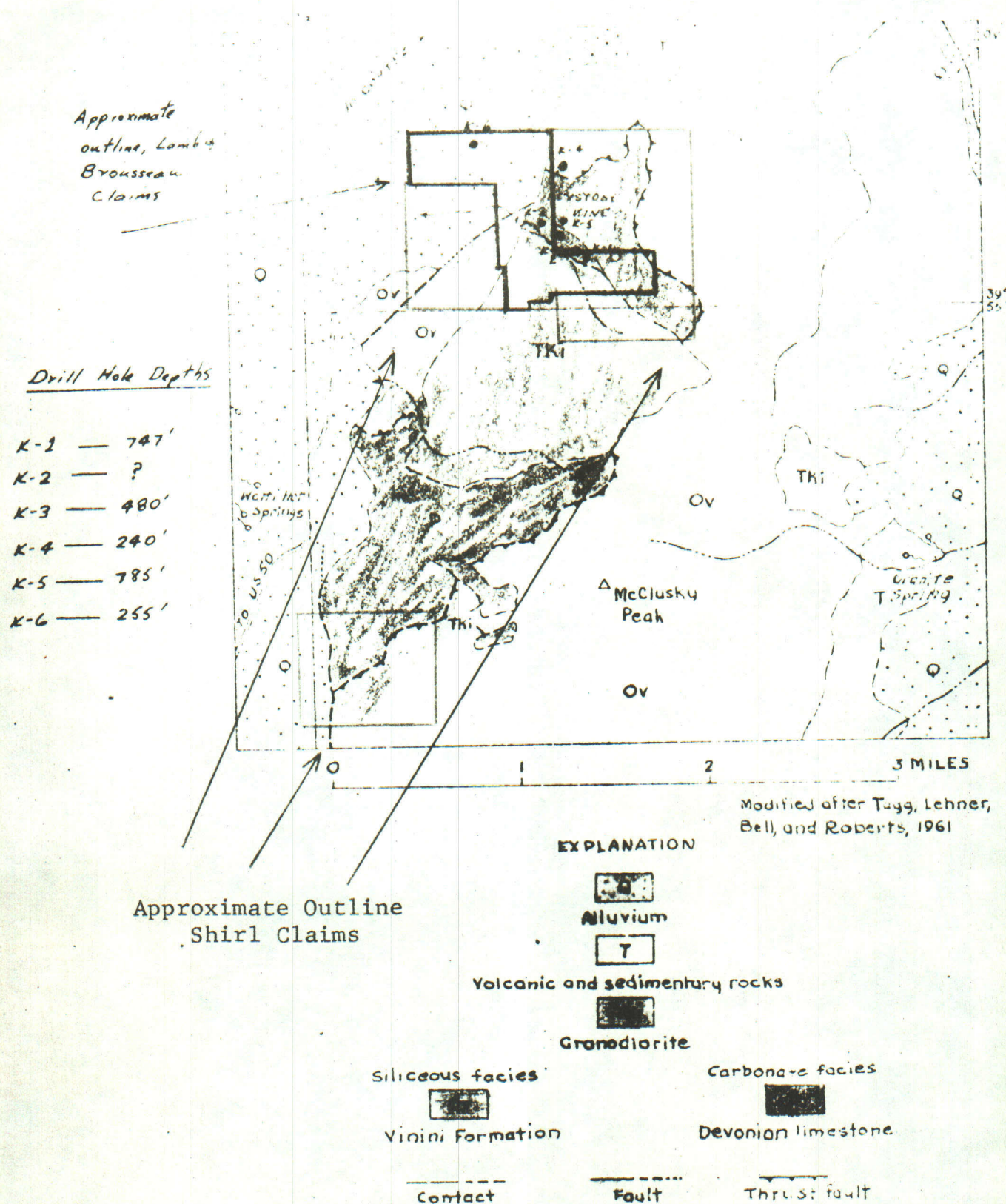


Figure 11. Geologic map of the Roberts district, Nevada.

[illegible]

Collector

4

Area

Stat Claims

Map

Date _____

8/2/68

[illegible]

Collector JT Area Walti Hot Springs ^{Map} - Gold Project - Date 5/16/68

Collector JT Area Walti Hot Springs ^{Map} - Gold Project - Date 5/16/68

Collector JT Area Walti Hot Springs ^{Map} - Gold Project - Date 5/16/68

[illegible]

JUN 18 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. 3074

June 15, 1968

Mr. J. V. Tingley
Union Pacific Railroad Company
Natural Resources Division
One East First Street, Suite 801
Reno, Nevada 89501

12 Rock Chips

Item	Sample No.	Au (ppm)	Cu (ppm)	As (ppm)	Hg (ppm)
1.	2595	.04	10	80	.30
2.	2596	.02	25	800	1.2
3.	2597	.08	55	400	.06
4.	2598	.03	50	160	.21
5.	2599	.05	90	160	.06
6.	2600	.03	50	120	.024
7.	2056	.04	30	80	.03
8.	2057	.02	200	180	.04
9.	2058	.02	65	100	.024
10.	2059	3.0	3000	800	1.0
11.	2060	.05	50	240	.024
12.	2061	.03	40	80	.03

Shirley
Claims
- Campbell

Charles E. Thompson
Charles E. Thompson
Chief Chemist

SEP 3 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. 3102

August 31, 1968

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
2.	R-2096	.40	30	8000	.03	<1
3.	R-2097	<.02	25	160	.04	<1
4.	R-2098	.04	5	40	.02	2
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
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

Tempo
Claims

Stat
Claims

Dart
Claims

for Edwin V. Post
Charles E. Thompson
Chief Chemist

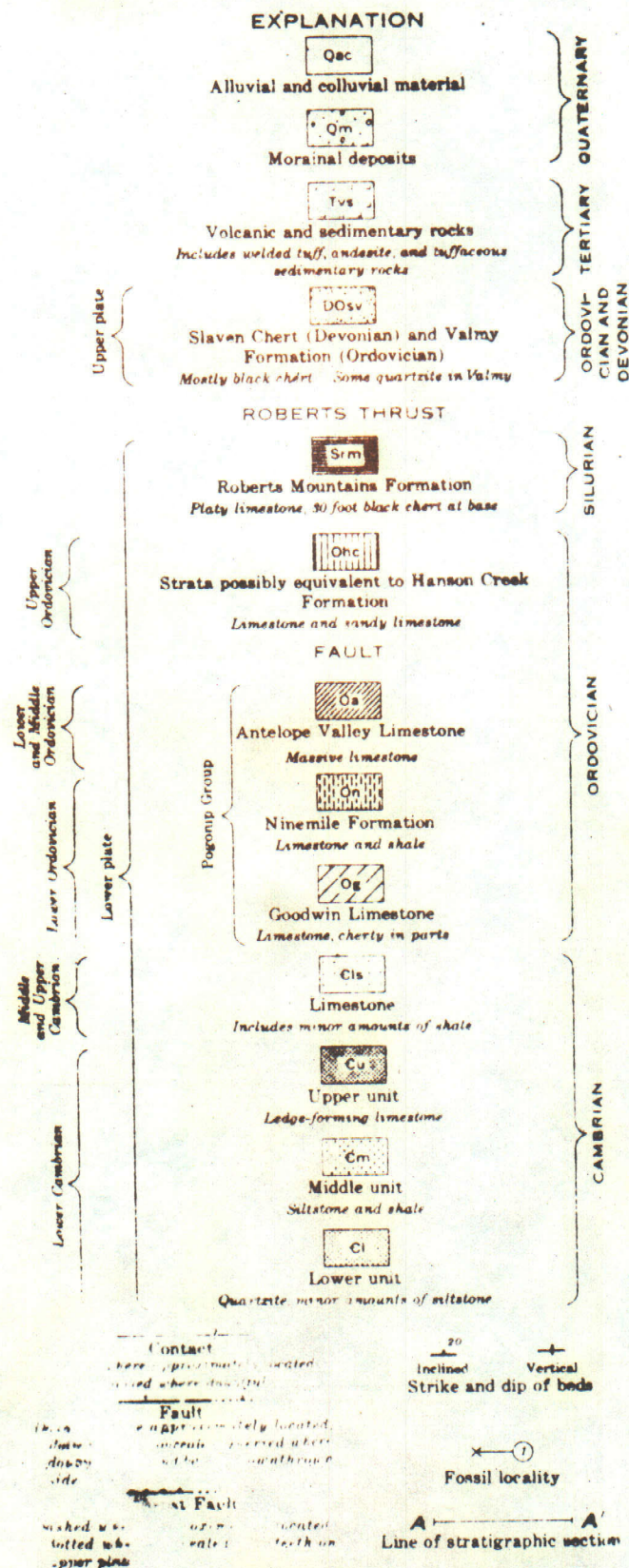


FIGURE 2

EXPLANATION



Alluvium



Quaternary and Tertiary sedimentary rocks
and Quaternary older alluvium



Volcanic rocks
*Rhyolitic welded tuff
and andesite flows*



Granitic rocks

QUATERNARY
TERTIARY
TERTIARY
JURASSIC

LOWER PLATE OF ROBERTS MOUNTAINS THRUST



Roberts Mountains Formation
*Platy limestone, as mapped locally includes limestone
and shale of latest Ordovician age*

Lower and
Middle
Ordovician

Lower
Ordovician

Middle and
Upper
Cambrian

Lower
Cambrian

Pogonip Group



Antelope Valley Limestone
Massive limestone



Ninemile Formation
Shale, minor limestone



Goodwin(?) Limestone
Thin-bedded limestone



Shale and limestone



Ledge-forming limestone



Quartzite, minor shale,
and rare limestone

Contact

Dashed where approximately located

Fault

*Dashed where approximately located, dotted where concealed
Bar and ball on downthrown side*

Fault scarp

Hachures on downthrown side

Thrust fault

*Dashed where approximately located
Sawteeth on upper plate*

Strike and dip of beds

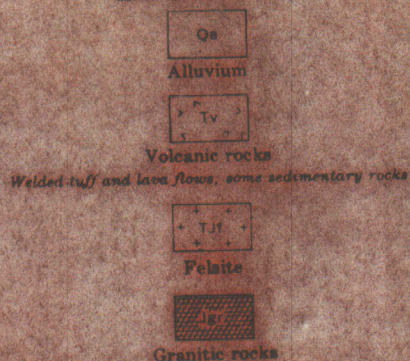
SILURIAN

ORDOVICIAN

CAMBRIAN

Figure 2.—Continued.

EXPLANATION



JURASSIC, JURASSIC, TERTIARY, QUATERNARY, CRETACEOUS, OR TERTIARY

LOWER PLATE BELOW KINGSTON CANYON THRUST

MIDDLE PLATE BETWEEN KINGSTON CANYON AND ROBERTS MOUNTAINS THRUSTS

UPPER PLATE ABOVE ROBERTS MOUNTAINS THRUST

Lower and Middle Ordovician
Lower Ordovician
Middle and Upper Cambrian

Roberts Mountains Formation
Platy limestone. Same as Masker Formation mapped by Washburn (1966a, 1966b).

Antelope Valley Limestone
Massive cliff-forming limestone

Broad Canyon sequence of Means (1962)
Black phyllite and black argillaceous limestone. Unconformity.

Gold Hill Formation
Quartzite and minor amounts of limestone. Cliff-forming limestone at top.

Roberts Mountains Formation
Platy limestone. Twenty-foot chert layer at base in some areas. Same as Masker Formation mapped by Washburn (1966a, 1966b) and Lowell (1958).

Pogonip Group
Massive cliff-forming Antelope Valley Limestone at top. Underlain by shale and limestone possibly equivalent to Nine Mile Formation. Thin-bedded limestone in basal part possibly equivalent to Goodwin Limestone.

Crane Canyon sequence of Means (1962)
Laminated to very thin-bedded light gray limestone. Same black shale and chert. Contains Upper Cambrian trilobites 5 miles south of Aviston.

Gold Hill Formation
Quartzite and minor amounts of limestone. Cliff-forming limestone at top. Contains Early Cambrian arthropods near top (Washburn, 1966a, 1966b).

Valmy (?) Formation
Black chert and minor amounts of dark gray shale and quartzite.

DEVONIAN
SILURIAN
ORDOVICIAN
CAMBRIAN

Contact
Dashed where approximately located.

Fault
Dashed where approximately located, dotted where concealed. Bar and half on downthrown side.

Thrust fault
Dashed where approximately located, dotted where concealed. Sawtooth on upper plate.

Figure 3 - Continued.

SUMMARY AND CONCLUSIONS

All five of these prospects are located in favorable prospecting areas.

The Pat prospect has been drilled and has therefore lost its attraction.

The other four are all located on windows in the Roberts Mountains thrust; they all show anomalous gold and arsenic concentrations; and all show evidence of alteration and mineralization. All of the four prospects merit additional mapping and sampling.

Based upon sample results, intensity of coloration and alteration, the properties are ranked as follows:

- 1) Dart Claims, 2) Temoo Claims, 3) Shirl Claims, and
- 4) Stat Claims.

It became apparent during the examination of these prospects that all required additional work. Each property could stand at least two days mapping and sampling. One or two may require even more time than that. Considering the terms offered by Lyle Cambell, it was felt that additional work could not be justified until an opinion was voiced by this company concerning these terms.