3940 0001

(120)
Item 3

Reno, Nevada - July 5, 1968

Mr. P. A. Meyer - Salt Lake City

Re: Keystone Mine, Eureka County, Nevada

Attached hereto is a report prepared by Mr. J. V. Tingley covering an evaluation of the Keystone Mine, Eureka County, Nevada.

Since the area was apparently well tested by Newmont Exploration company in 1967 and with negative results, I concur with Mr. Tingley's conclusion that we do no further work on the property.

R. J. Anctil

R. J. Anctil

RJA:cm
CC: C. E. Melbye - Los Angeles
File: Keystone Mine

KEYSTONE MINE (GOLD)
ROBERTS MINING DISTRICT
EUREKA COUNTY, NEVADA

by

J. V. Tingley

Distribution:
Los Angeles - 2
Salt Lake City - 2
Reno - 3

Reno, Nevada

July 2, 1968

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KEYSTONE MINE (GOLD)
ROBERTS MINING DISTRICT
EUREKA COUNTY, NEVADA

SUMMARY

Mr. N. A. Lamb submitted 35 claims in the Roberts Mining District, Eureka County, Nevada for our evaluation. His claims cover a portion of what is known as the Keystone Window, an exposure of lower-plate Devonian limestone surrounded to the north and northeast by upper-plate Ordovician Vinini shales. A Tertiary granite intrudes the limestone and plunges under the property to the north.

Drilling by Newmont Exploration Company in 1967 ruled out the possibility that mineralized rock could occur beneath the exposed lower plate rock. These favorable rocks dip steeply to the northwest, and any possible target area would occur at excessive depths in this part of the property.

Other possible target areas in this district should be examined during the course of the summer reconnaissance work.

CONCLUSIONS

The most promising area of the Keystone property has been tested by Newmont Exploration with negative results. A large granite mass exposed on the southern claim area passes northward under the lower plate rocks and cuts off any possible favorable Roberts Mountain formation which may have existed there. These lower plate rocks dip steeply to the northwest, and beyond the area underlain by granite, any possible target would lie at excessive depths. Possible exploration targets could exist northeast and southwest of the property examined, but this ground is controlled by other parties, and may not be available at this time.

RECOMMENDATIONS

Mr. Lamb should be informed that Union Pacific has no interest in this property. Reconnaissance sampling will be done in the entire area this summer. If any interesting possibilities are outlined with this work, we can then investigate the other properties in the district.

INTRODUCTION

Thirty-five mining claims located in the Roberts Mining District, Eureka County, Nevada were submitted to Union Pacific in May, 1968. These claims are owned by Mr. N. A. Lamb and Mr. Brousseau, 1002 Georgia Street, Vallejo, California. The property was examined on June 19, 1968.

LOCATION

The area claimed lies on the northwestern slope of the Simpson Park range in Sections 21, 22, 26, and 27, T. 24 N., R. 48 E., Eureka County, Nevada.

GEOLOGY AND MINERALIZATION

A small window of Devonian limestone surrounded on three sides by upper-plate Vinini shales is the focal point of prospecting in this district. The limestone is intruded by a large granite mass and small replacement copper deposits have formed along this contact. These deposits were mined intermittently from 1870 to the 1920's. Four patented claims covering the old mine area are owned by Elmer Schroeder of Crescent

Valley, and are not included in this submittal.

EXPLORATION POTENTIAL

The exploration target presented by this property would be a possible disseminated gold deposit in lower-plate rocks beneath the Roberts Mountain thrust sheet. Since the intrusive rock occupies all the space to the south of the lower-plate outcrop, no possibilities exist there. The ground to the west, northwest and north offers the target. Out of this, Lamb and Brousseau control a narrow corridor extending from the granite outcrop across Devonian limestone to the northwest. The other favorable areas to the west and north are claimed by Lyle Campbell of Reno, Nevada.

PREVIOUS WORK

This claim group, along with Elmer Schroeder's Keystone claims were under option to Newmont Exploration during most of 1967.

Newmont drilled six holes on the ground, five in limestone to the north of the old mine area, and one in alluvium near the northern property boundary. The results of this drilling are not available to us.

Newmont reportedly asked that they be granted a one-month extension of their option in order to do some geophysical work. This was not granted and Newmont dropped the property.

RESULTS OF EXAMINATION

The lower-plate limestone outcropping on the property resembles the Wenban formation, and is similar to the rock overlying the mineralized rock at Cortez. It is moderately veined with white calcite. Near the thrust contact, both upper- and lower-plate rocks are crushed. Orange-red hematite is present along the thrust fault.

Newmont's holes were designed to test for the presence of mineralized rock beneath the exposed lower-plate limestone. Examination of drill cuttings near the drill holes indicated that the two southernmost holes (K-1 and K-5) cut intrusive rock at depth.

K-2 and K-3 remained in black limestone; K-4, drilled in upper-plate rock near the thrust contact, may not even have entered limestone at its bottom (240'). The last hole, K-6, was in alluvium to 255'.

From these observations, the following may be inferred: 1) The intrusive mass extends northward under the property. 2) Mineralized rock was not encountered between surface and the intrusive contact. 3) The intruded rock is more or less conformable to the margin of the intrusive, forming a northwest plunging anticline. 4) Any possible exploration target within the submitted property would lie to the northwest, under a considerable cover of unmineralized rock and alluvium.

J. V. Tingley

JVT:cm
7/2/68

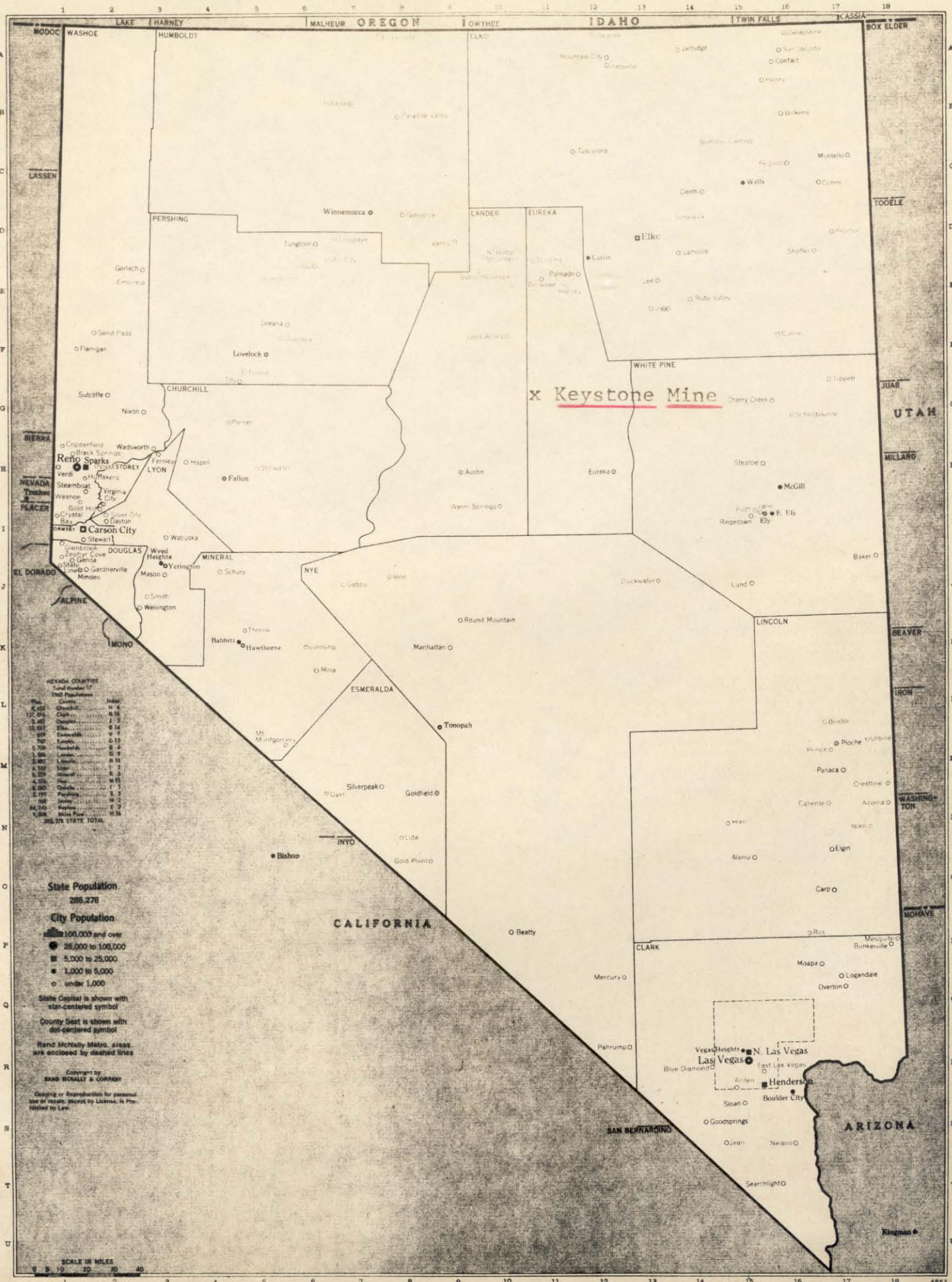
APPENDIX

RAND McNALLY

STATE COUNTY-CITY MAP

NEVADA

SIZE 8½ x 11



NEVADA COUNTIES
Total Number 17
1960 Populations

Pop.	County	Index
8,455	Churchill	H 4
127,016	Clark	G 16
3,481	Douglas	J 2
13,957	Elko	G 14
929	Esmeralda	H 7
787	Eureka	G 13
3,708	Humboldt	G 4
3,866	Lander	G 5
5,687	Lincoln	H 16
6,732	Lyon	I 3
6,229	Mineral	K 3
4,336	Nye	H 11
8,063	Ormsby	I 1
3,197	Pershing	G 3
508	Storey	H 2
84,743	Washoe	I 2
9,896	White Pine	H 14
285,278	STATE TOTAL	

State Population
285,278

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

MADE IN U.S.A.

Specially engraved and indexed for use with the Rand McNally Commercial Atlas and Marketing Guide.

This Map is also available with County Outlines only.

4725

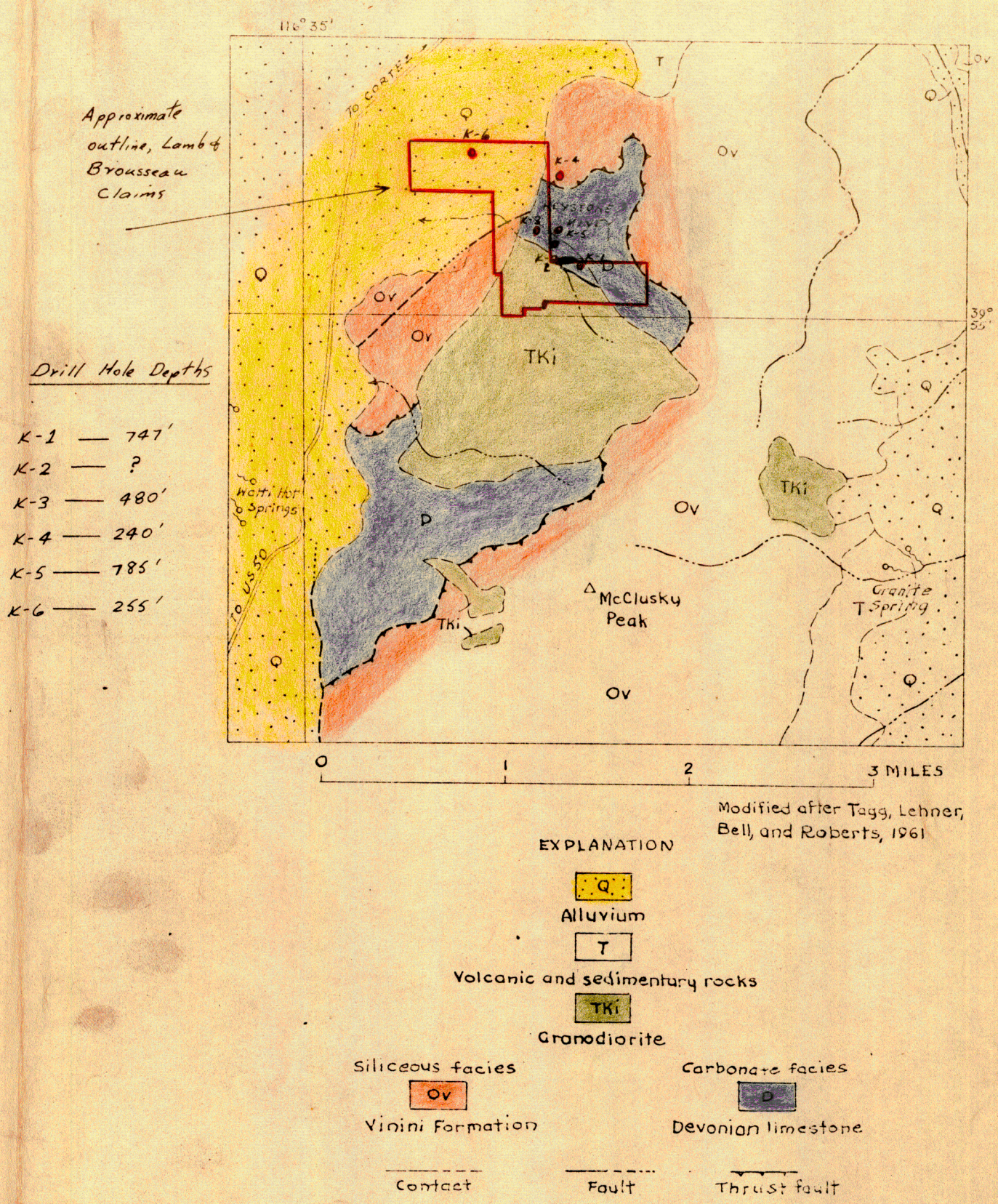


Figure 11. Geologic map of the Roberts district, Nevada.