

1660 0007

⑥ Item 12

NW-34-2  
Ag, Au, diatomite,  
Mn, U

Mining District: EASTGATE  
(Silver, Gold, Diatomite, Manganese, Uranium)

T. 14-16 N., R. 37-38 E.  
Churchill and Nye Counties, Nevada  
AMS Millett Map Sheet 1955

#### GENERAL BACKGROUND

The Eastgate is a large and poorly defined district. That portion which includes the Gold Ledge Mine is treated under area NW-34-2.

Between 1935 and 1957 about \$124,000 in silver and gold ore was produced from the district. The bulk of production came from the Buffalo Hump Mine.

The Buffalo Hump Mine is on a ridge crest west of Buffalo Summit near the Churchill and Lander County line. Workings consist of a shaft, several adits and an undetermined amount of underground workings.

The Gold Trail group of claims is located about  $3\frac{1}{2}$  miles north-northeast of the Buffalo Hump Mine. There is no recorded production from this group of claims.

Diatomite deposits near the mouth of Buffalo are currently being explored.

The Gamma uranium claims are located in section 35(2) T. 16 N., R. 37 E. There has been no production.

A small deposit of manganese is located adjacent to a road that extends from the Buffalo Canyon road to the Weather Bureau remote station. The deposit has been almost completely mined out.

An iron prospect is located on the west slope of the Desatoya Mountains about 2 miles south of Carroll Summit.

#### GEOLOGICAL AND TECHNICAL DATA

The gold and silver deposits of the area occur as quartz veins in altered rhyolitic rocks or as irregular disseminations in altered and silicified rhyolite.

Assays of samples from the Buffalo Hump Range from 0 to .78 oz. of gold per ton and 0 to 3.4 oz. silver per ton (1).

Bennett, 1975

Uranium occurs in lignitic units in Tertiary sedimentary rocks. After burning the lignite to ash up to 0.1 per cent uranium is obtained.

The magnetite-hematite deposit occurs in metavolcanic rocks near contacts with a quartz diorite.

The diatomite occurs as interbeds in Cenozoic sedimentary rocks.

#### POTENTIAL FOR DEVELOPMENT

Sampling suggests that the Buffalo Hump Mine could be profitably worked if adequate reserves were established.

The impurity and considerable remoteness of the diatomite deposits have prevented their development to date.

The uranium and iron deposit will probably not be exploited in the future.

The manganese deposit is for all practical purposes mined out.

#### COMPANIES AND CLAIMANTS ACTIVE IN AREA

- |                          |                       |
|--------------------------|-----------------------|
| 1. DIATOM Group          | 2. BUFFALO HUMP Group |
| M. Douglas Miller et.al. | Jon K. Shambaugh      |
| 4249 King Canyon Road    | 1304 Division Street  |
| Carson City, Nevada      | Carson City, Nevada   |
| (placer claims)          | (10 lode claims)      |

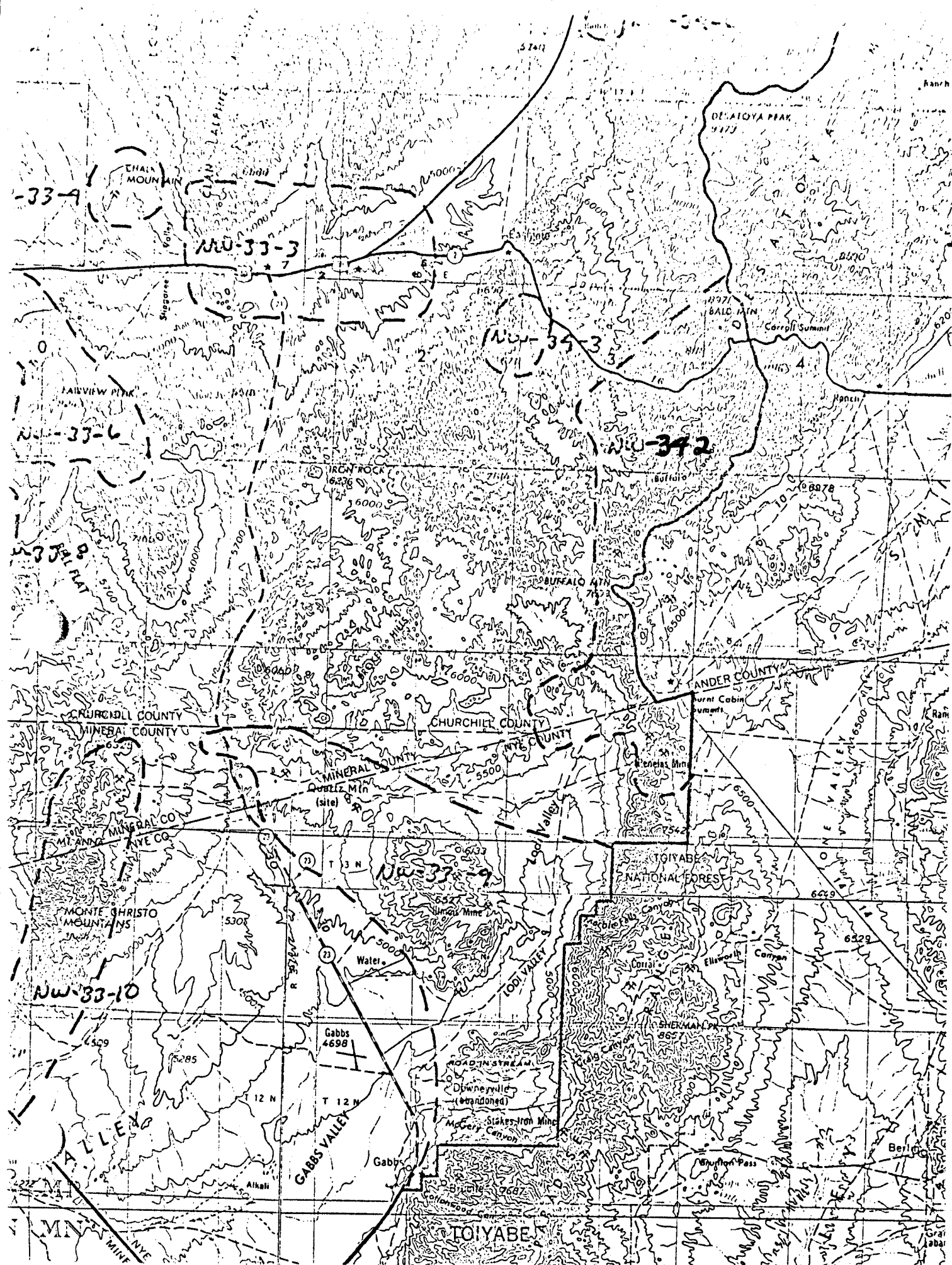
#### SELECTED REFERENCES

1. Willden and Speed, 1974, Geology and mineral deposits of Churchill County, Nevada.

#### FIELD EXAMINATION

Not examined.

Bennett, 1975



*Taken from:*

Mineral Resources Inventory and Analysis  
of the

Clan Alpine Planning Unit

Carson City District

by

R. E. Bennett and C. L. Hoke

1975

*for complete introduction  
see Churchill Co.-general  
files Item 17*