

Carroll and Company Lime DepositClark County -
N. of (30) - 4.
Item 22Location::

The Carroll and Company Lime deposits, consist of three separate deposits and are known as follows: Helen deposit about one mile westerly of Arden, a U. P. R. R. Station where the United States Gypsum Plant is located. The Big Horn and the Big Horn Jr. located about two to three miles west and south-west respectively of the Helen deposit.

Claims::

The claims on each of the deposits are known as: Helen, containing 80 acres, Big Horn, 160 acres and Big Horn Jr., 60 acres.

Ownership::

The owners of the Carroll and Company's deposits are Mr. T. M. Carroll, Dr. Roy W. Martin both of Las Vegas, Clark County, Nevada and Mr. H. D. Ballow of Salt Lake, Utah.

Adjoining Properties::

A gypsum deposit joins the Big Horn Jr. on the south end of the deposit.

Facilities::

A very good surfaced road which leads to Stump springs from Arden, passes within a quarter of a mile of the Helen property, and about one mile and a half from the other two deposits.

The surrounding country is flat, permitting road and R. R. building at very little expense.

Water can be obtained at Arden. There might be possibilities for developing water by boring near the properties.

Geology and Ore Occurrence:

The Helen Deposit, the best situated of the three, occurs in one half of an oblong mountain, that stands out prominently in a barren flat country.

The other half which is ~~separated~~ by a saddle, and joins on the north east, consists of Dolomite of which there is approximately 3,500,000 tons.

About 3 million tons of lime are exposed, and over a million tons are surrounded by the talus of eroded lime. The approximate demensions are 75 to 125 feet in height, 400 to 500 feet wide and about 2500 feet in length.

There is very little over burden, what there is consists of loose altered lime.

The following are analysis made of representative samples submitted by Mr. T. M. Carroll, August 18, 1924.

Analysis made by Smith Emery Company, Los Angeles, Calif.

| | | | |
|--|---------------|---|---|
| Acid Insol | 1.80 per cent | | |
| Iron Oxide | 0.08 | " | " |
| Aluminum Oxide | 0.38 | " | " |
| Calcium Oxide | 53.91 | " | " |
| Magnesium Oxide | .54 | " | " |
| Sodium & Potassium Oxide | none | | |
| Moisture (105c) | " | | |
| Carbon Dioxide & combined H ₂ O | 42.80 | " | " |
| Sulphur Anhydride | none | | |
| Phosphoric Anhydride | 0.27 | " | " |
| Total | 99.78 | " | " |
| Purity as Calcium Carbonate | 96.4 | " | " |

Analysis by Baverstock & Payne Chemists, 223 W. First Street
Los Angeles, California.

| | | | |
|---------------|---------------|---|---|
| Silica | 1.25 per cent | | |
| Alumina | 0.50 | " | " |
| Iron Oxide | 0.07 | " | " |
| Iron | 0.05 | " | " |
| Calcium Oxide | 54.70 | " | " |

| | |
|--------------------------|------------------|
| Magseium Oxide | 0.35 per cent |
| Carbonic Acid to Balance | <u>43.13</u> " " |
| Total | 100.00 " " |

The Big Horn and Big Horn Jr. have unlimited tonnages of same grade as the Helen Deposit according to statement made by Mr. T. M. Carroll.

Development:

There is no development work done on any of the above mentioned properties with the exception of a few blasts shots in exposed lime thus exposing the fresh unaltered material.

Equipment:

There is no equipment on any of the deposits.

The price asked for the Carroll's Lime is \$27,500.00 on terms.

ORIGINAL

No. 1424

UNIVERSITY OF NEVADA
STATE MINING LABORATORY

Reno, Nevada

Jan. 5, 1925.

Mr. ~~Bureau of Mines,~~

-----Carson City,-----

Nevada

Report on sample received from you by mail on 12/9/24, 1924
is as follows:

[illegible]

Analyst.....

Approved J. Stalder
Director, State Mining Laboratory.

In case you desire further information regarding these samples, please write within a month, and refer to the number of this report.

The State Mining Laboratory makes free determinations of Nevada ores and Minerals for citizens of the State. It is prohibited by law from reporting the exact amounts of gold and silver found in samples submitted, and only allowed to state whether the precious metals are present to the extent of \$5.00 per ton or not.