(227)
Item 4

1790 0004

REPORT ON

GOLD CROWN MINE (EMPIRE GROUP)

FAIRPLAY MINING DISTRICT
GOLDYKE, NYE COUNTY, NEVADA.

Examined Dec. 16, 1920.

Reported Dec. 17, 1920.

By A. F. Carper.

Copy sent Phila

REPORT ON

GOLD CROWN MINE (EMPIRE GROUP)

FAIRPLAY MINING DISTRICT
GOLDYKE, NYE COUNTY, NEVADA.

*****

LOCATION

The Gold Crown Mine is located in the Fairplay Mining District, about two miles west of the town of Goldyke, and about one mile southwest of the Butler Mine. Mina is thirty miles southwest and is the nearest point for freight, supplies and postoffice.

CLAIMS AND AREA

There are four claims in this group known as the Empire, Silver Top No. 1, Silver Top No. 2 and Silver Top No. 3, - covering an area of about eighty acres of mining ground.

OWNERSHIP AND TITLE

The Gold Crown Mine or Empire group is owned by Mrs. Margaret Dungan, of Atwood, via Mina, Nevada. Her title is possessory, being by right of discovery and location, with subsequent assessment work performed.

HISTORY

This group was located by Mr. Dungan (deceased) who gave an option to a company in 1908 for $100,000.00. This company worked the property until 1910 when they ceased work and gave up their option. . Since that time the property has been idle until early this year when lessees took out two cars of ore which ran about $32.00 a ton.

FACILITIES

Transportation. All freight to the mine and ore from the mine can be hauled to and from Mina over a fair desert road a distance of about thirty miles.

Power. There is no power in this country which necessitates the use of fuel oil for power purposes.

Water. A good spring for domestic water is found at Goldyke. There is not enough water for milling purposes unless the mine water (indeterminate) could be pumped for this use.

Timber. There is enough scrub timber on the hills for domestic purposes, but too small for mining uses.

TOPOGRAPHY

The hills in this section are quite low and rolling, requiring shaft work for all deep development.

GEOLOGY

General. The rock formation in this section of the district consists of andesite flows intruded by rhyolite dikes and in places capped with rhyolite and quartz porphyry.

Local. The formation on the property is a chlorite andesite with one small rhyolite dike about 50 feet wide cutting the andesite. The dike has a strike of about north 45° W. and dips about 80° to the NE. The rhyolite is a very fine-grained shaley type which seems to have been a plane of later movement possibly after the deposition of quartz. Along the hanging wall side of this rhyolite is a crushed mass with fine crushed sugar quartz and some crushed andesite mixed. A very strong fault strikes north and south and dips about 45° to the east. This is the latest fault. Another fault of earlier origin cuts the rhyolite off at 50 feet in depth. This fault strikes N. 45° W. and dips 18° to the northeast.

ORE OCCURRENCE

The ore occurs in the crushed quartz in the rhyolite and in small bunches of quartz along the main fault, the only orebody of note being that in the rhyolite containing gold, silver, quite a little manganese and a little copper carbonate.

The main or north-south fault and the rhyolite junction in the shaft with a flat fault at the 50 foot level. This leaves a very small fault block of ore about 70 feet long and 50 feet deep at its greatest depth. The deeper development is along the fault and in no place has the main orebody been found above the fault to the east of the shaft.

DEVELOPMENT

There are several shallow pits and shafts dug along the fault on the surface. The main workings being in a shaft which is vertical for 50 feet in depth; at 30 feet the incline takes a 45° pitch to the east to the 230 foot level. Water fills the shaft to the 130 foot point. An adit 105 feet long connects with the shaft at the 30 foot point, this drift is stoped for 70 feet to grass roots. To the south of the shaft a drift 50 feet long follows the fault.

The 50 foot level consists of a drift 150 feet long on the fault. A crosscut 50 feet long to the shaft and 25 feet west of the shaft and a raise thru to the 30 foot level on the ore.

The 100 foot level development is all on the fault. A drift 200 feet south of the incline shows no commercial bodies of ore and a drift north 50 feet is barren. Water fills the lower workings below the 130 foot point.

EQUIPMENT

The equipment consists of a hoist house, blacksmith shop, head frame, 15 hp. Fairbanks-Morse hoist, small vertical boiler and a small Cameron pump.

PRODUCTION

Practically the total production from this property remains on the dumps (see sample sheet). Two cars of ore shipped early this year netted $32.00 a ton on an eighty-five ton lot. There is nowork going on now and no ore blocked to mine.

SAMPLING

One sample was cut across the vein on the 50 foot level where the ore had not been stoped. The balance of samples were grab samples from the various dumps.

PRICES AND TERMS

The purchase price for this property is $25,000.00.

Terms: No cash down, $2500.00 at the end of six months and the balance by the end of two years in scattered payments. Neil Simons, of Tonopah, is agent. Commission from owner.

RECOMMENDATIONS

Any future work from the lower levels should be crosscuts to the west for a possible downward extension of the ore-body above the main fault and below the flat fault.

CONCLUSIONS

The downward extension of the orebody below the flat fault is the only possibility for this property.

The main or north-south fault is not an ore making fault with commercial bodies of ore. The ore taken from the rhyolite vein is of good grade for a mill on the property on condition that the copper content is not too great for cyaniding (average less than 1/2 of 1 per cent).

The property at best, if the downward extension of the vein can be found, is small but would stand some development

if the property was in better shape for work and closer to a point of supplies.

Respectfully submitted,

A. F. Carper

Examined Dec. 16, 1920.
Reported Dec. 17, 1920.

By A. F. Carper.

SAMPLES.

No.	Width	Ozs. Gold	Ozs. Silver	Description
1	5.5	.03	10.83	Cut across 5.5 feet. Vein at drift and crosscut 50 foot level. Mixed, quartz, manganese and rhyolite.
2		.05	25.85	Grab sample from ore pile ready for shipment when Simon's lease expired.
3		.04	14.42	Grab sample from dump from adit about 100 tons.
4		.20	38.24	Grab sample from 35 ton pile shaft dump.
5		.08	18.56	Grab sample from ore dump from sahft 30 and 50 foot levels. About 200 tons.
6		.40	68.00	Special sample of sulphide ore from bottom of shaft 230 foot level.