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item 5

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PRELIMINARY REPORT ON IRON DYKE PROPERTY.

This property consists of four full claims located north and south and known as the IronKing, Iron Queen, Iron Dyke No 1 and Iron Dyke No 2, incorporated under the laws of Arizona as the Iron Dyke Mining & Smelting Company.

The principal stockholders are as follows:

L. H. Connelly, Tonopah,	controls about 500,000 shares
C. C. Book Tonopah,	
Dr. Garner Tonopah,	
A. E. Bettles, Mina	do 100,000 "
A. I. D'Arcy Rhyolite	do 100,000 "
I. M. Haley Tonopah,	
George Cole Tonopah	
G F Thompson Sedaville	do 100,000 "

The exact holdings of those interested could not be ascertained
GEOGRAPHY.

The group is located in the Silver Star Mining District, Esmeralda County, Nevada, seven or eight miles northwest of Sodaville, and about four miles west of Mina. Mina is the nearest railroad point.

TITLES.

Titles are of a possessory nature, work done, and recorded. Almost enough work has been done for patents.

GEOLOGY.

The ledge runs north and south and is about 100 ft wide. The ledge matter seems to be of a siliceous nature highly impregnated with iron and showing copper stains all through it. Another ledge of the same nature possibly with less iron value and more decomposed runs north 60° E with a flat dip to the northwest. Between these two ledges forming a V is a limestone body of apparently a good smelting quality. The main, or north and south ledge shows a very heavy iron content. This vein also carries garnets in large quantities in places, and a dark iron rock possibly an amphibole or diabase. The country rock on both the east and west sides is a coarse grained biotite granite and on the south end of the property seems to make a circle coming around again to the foot wall from the hanging. This, however, may not prove

the case, upon development, but I feel sure that both walls of the vein will be granite. The main ledge here is traceable for 3000' feet on the surface.

DEVELOPMENTS.

Developments are slight. On the Iron King claim a tunnel has been run a little north of west 75'. This tunnel is near the junction of the two ledges and shows ledge matter the entire distance. It also shows a contact near the mouth, running nearly due north and south. This contact is between the limestone and granite and dips flat 23° to the west. The barometer elevation of the mouth of this tunnel is 5500'.

A second tunnel near the top of the hill and a very little below the outcrop is 75' long and driven west, showing the same conditions as the lower tunnel and not having reached the hanging wall as yet. At the mouth of this upper tunnel is a 20' shaft, supposed to be sunk on the foot wall of the vein but I do not think it is. All these workings show the same heavily oxidized iron conditions with limestone gangue, and stains of copper all through the rock. Barometer elevation at the mouth of the upper tunnel is 5850' while the elevation of the outcrop is 5950', thus giving enormous backs from the lower tunnel level.

MINING FACILITIES.

There is no fuel on the ground, and this would be a drawback, as wood would probably cost \$15.00 per cord laid down. Coal I think would be much cheaper. There is no water on the ground, for power, steam or domestic purposes.

Wages are from \$2.50 to \$3.50 per day and board shifts being of eight hours each. Supplies could be readily hauled in from Sodaville or Mina. Freight would not exceed \$5.00 per ton from Sodaville.

ORE IN SIGHT, ETC.

The property is in such shape that no actual ore is in sight, but the same characteristics of the vein show in both the upper and lower tunnels with a great surface width making it look very encouraging.

A S S A Y S.

#51 7' wide near south end of Iron King claim on surface.

Ag	
Feo	
Cu	Sample lost or mislaid
SiO ₂	
CaO	

#52 miscellaneous pieces of main outcrop.

Au	trace
Fe	25.20%
SiO ₂	72.52

#53 grab sample of ore pile from small cut above #2 or upper tunnel; 5 tons in pile.

Cu	1.61%
Fe	33.12
SiO ₂	59.83
CaO	5.21
Au	trace

#54 6-1/2' wide in shallow hole on top of hill on south end of Iron Queen claim.

Au	trace
Fe	36.80%
SiO ₂	56.10
CaO	5.44

#55 miscellaneous samples of limestone from between the two iron dykes.

CaO	44.83%
SiO ₂	12.40

#56 4' wide near lower tunnel east dyke.

Au	trace
Fe	35.84%
CaO	13.26
SiO ₂	48.91

CONCLUSIONS.

I have been as yet unable to find out how or on what basis this property could be obtained, but it appears most worthy of development from a smelting standpoint. Later have been able to get all the stock on a total basis of \$6000 cash.