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## OFFICE MEMORANDUM

Item 3

DAYTON IRON DEPOSITS  
Lyon County, NevadaLocation

The Dayton Iron deposits are in sec. 6, T. 17 N., R. 23 E., sec. 31, T. 18 N., R. 23 E., and sec. 1, T. 17 N., R. 22 E., M.D.M., about 12 miles northeast of Dayton, Nevada. The property may be reached by automobile by travelling approximately 8 1/2 miles northeast on Highway 50, then north for about 4 miles on an unimproved road.

Description of Property

This property comprises a group of patented claims located many years ago. The ore, consisting of hematite and magnetite, occurs as a replacement in limestone. Exploratory work comprises several short adits and shafts, and scattered pits and trenches. A Bureau of Mines project, recently completed, explored these deposits by trenching and drilling. Complete data on this property is incorporated in a project report. Geophysical tests on these deposits give definite results with a magnetometer.

Physical Features

Dayton Iron deposits outcrop along the crest and west end of an isolated hill at an elevation of approximately 4500 feet. Adequate water is available from the Carson River, which is 6 miles south of the property. Electric power is available 4 miles distant, from the power line between Virginia City and Fort Churchill. Closest housing facilities are at Dayton 12 miles southwest of the mine.

Transportation

Fort Churchill is a station on a branch of the Southern Pacific about 12

miles east of the property. Ore could be hauled to this point or to Carson City, 25 miles southwest, where connections can be made with the Virginia and Truckee Railroad.

### Tonnage and Grades

The estimated tonnage is as follows:

<u>Grade</u>	<u>Short tons</u>
Over 50 percent Fe	1,500,000
Over 45 percent Fe	4,000,000
Over 40 percent Fe	<u>2,000,000</u>
Total	7,500,000

These tonnages include some small beds of 30 to 40 percent material which are considered too small to be rejected while mining.

Approximately one-fifth of the above tonnage is low sulphur, 0.001 to 0.01 percent. The balance is high sulphur, .01 to 6.0 percent, and will average 3.5 percent.

The phosphorus content is believed to be low enough for Bessemer grade ore.

Mn, Cu, Pb, and Zn are present in traces only.  $SiO_2$  will run 7 to 8 percent;  $CaO$  4 to 6 percent.