

SKETCH MAP

# IRON HILL CLAIM (magnetite)

Location: T. 16 S., R. 41 E., Sec. 9-10. Malheur County

All cuts measured by tape as indicated below, but bearings are of assumed sketch accuracy due to inability to use compass because of adverse magnetic influence originating from the mineralization present. The profile is likewise of purely sketch accuracy.

Massive magnetite is indicated by the (solid red color) and the remaining portions of the cuts are occupied by disseminated ore, or barren country rock, as per the notations given below. The dashed lines delimit the inferred trace of the mineralized area as indicated by the workings and as further narrowed down by observed barren country rock float.

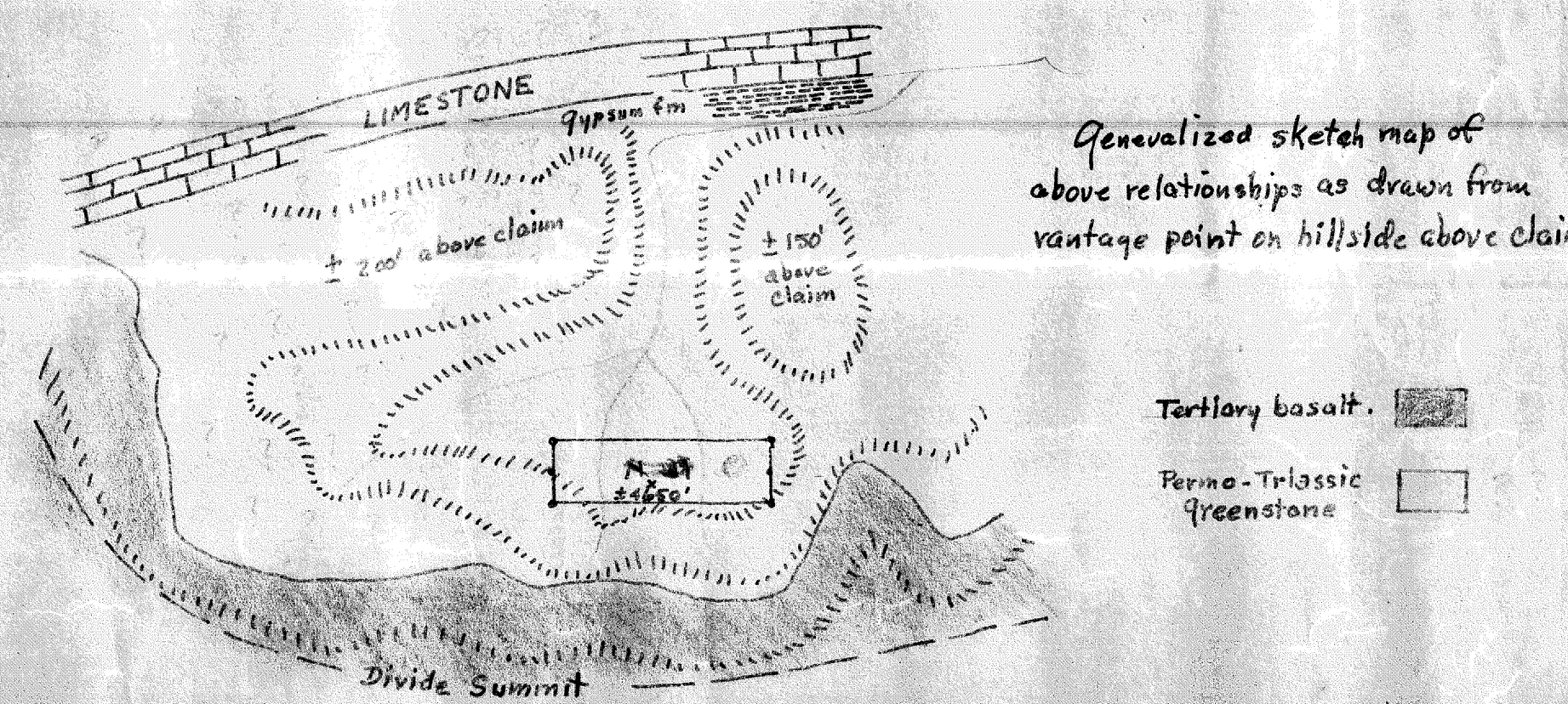
By: N.S. Wagner  
Examined May 5, 1953.  
Drafted May 8, 1953.

The claim was taken in September, 1952, by Harry H. Schaffer, East Idaho Avenue, Ontario, Oregon, and Ralph V. Thurston, Payette, Idaho.

### GEOLOGIC HIGHLIGHTS

Basalt caps the divide between Brogan and Westfall. This divide lies a short distance (perhaps 1/2 mile) south of the claim, the south side of which coincides approximately with the bottom margin of the map. The basalt extends to within a few feet of the mineralized area. Otherwise the mineralized area occurs in a greenstone country rock comparable to both Gilluly's "Clover Creek" of the Baker Quadrangle and Livingstone's "Fermo-Triassic" of the Snake River Canyon below Huntington. This pre-Tertiary belt appears to extend for a distance of several miles along the northern flank of the divide and northward to the Brogan-Unity highway in the hill area just west of Brogan. The subject claim lies on the extreme southern margin of this exposure. A belt of limestone and the distinctive brick red and vivid green shales and conglomerates of Livingstone's "Gypsum Formation" occur a half mile north of the property. The limestone extends diagonally up the hill in a roughly south of west direction from the foothills to the divide summit near Juniper Mountain for an estimated distance of a mile, but the "Gypsum formation" was observed only on the extreme eastern end of the belt, at a point due north of the property. Basalt dikes are common in the greenstone area at large, and the greenstone breaks down into a fine rubble and yellow soil which resembles lakebed soil very much in color and plant growth so that boundaries between the greenstone pre-Tertiary areas and the abundant lakebeds in the lower elevations of the Willow Creek country do not stand out very conspicuously when viewed from a distance.

The mineralized area of the claim is composed of both massive and disseminated magnetite. Overburden is fairly scant and some natural outcrops exist. The presumption to be gained from the present workings is that the massive magnetite is present in a series of independent lenses within the disseminated zone rather than as continuous bodies, but more prospect work will have to be done before the situation in this respect can be clarified. Except for possible extension to the eastward as indicated below, the mineralized area is clearly demarcated by barren greenstone country rock and no other indications of mineralization were noted, or reported, as occurring in the area immediately surrounding the claim.



P-14,402  
FE 27.34 %  
Sample No. 5  
Finely broken rock with limonitic streaks and local, small bunches of magnetite. 58'.

P-14,403  
FE 56.80 %  
S 0.025 %  
Sample No. 7  
Rock pretty well loaded with bunches and streaks of magnetite. Sample selected to include specimens which show copper stain. 44'.

Sample No. 8  
Typical Country Rock

P-14,401  
FE 30.90 %  
Sample No. 4  
Leached limonitic material, soil, etc. --- 32'.

P-14,399  
SiO2 33.05 %  
FE 41.57 %  
S 0.013 %  
Sample No. 2  
Magnetite fragments gathered from the width and breadth of all exposures shown below, both natural and artificial.

Sample No. 1  
Typical Country Rock from this general area

Unprospected area of red soil suggesting extension of mineralized zone.

To Brogan, 17 miles by present road. Estimated 10 by possible alternate.

