

County Surveyor's Record, Douglas County, Oregon

17239

Mineral Survey No. 997

FEET

This survey was made with a Topcon GTS2 optical reading theodolite, and electronic distance meter, Serial No. B40757, reading to 10 seconds of arc both horizontal and vertical. The instrument was in good condition at the time of the survey, and all adjustments were in good order.

All azimuths in the record were determined by horizontal angles and referred to true meridian determined by the following observation:

September 29, 1983, at Cor. No. 2 of the Millsite latitude 42°44'10" N., and longitude 123°12'30" W., elevation 3450 feet above sea level, and temperature 50°F., make a series of six altitude observations on the sun for azimuth at approximately equal time intervals, three each in direct and reversed telescope positions, reading the horizontal angle from Cor. No. 3 of the Millsite.

Mean time of observation, 120th meridian standard time	9h10 ^m 55 ^s a.m.
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Declination of sun at mean time of observation	2°22'35" S.
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Mean observed vertical angle to sun's center	30°30'05"
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Mean horizontal angle to the right from Cor. No. 3 to sun's center	304°35'00"
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True bearing of line from Cor. No. 2 Millsite to Cor. No. 3 Millsite	S. 02°58' W.
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The lines were measured with a Topcon GTS2 total station electronic distance meter and optical theodolite Serial No. B40757. The instrument was checked on a standard baseline at the time of beginning the survey and was found to be correct.

All lines and connections of this survey were run by direct methods.

The magnetic declination observed at each corner of this survey gave an average of 19°30' E.

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MILLSITE

At Cor. No. 1 of the Millsite, this corner falls in the root of a fir tree where a monument cannot be established; from which

The closing cor. of secs. 5 and 6, T. 33 S.,
R. 4 W., bears N. 02°58' E., 610.4 ft.