

# County Surveyor's Record, Douglas County, Oregon

18628

SURVEY NO. 979

**CHAINS**

This survey was made with a Dietzgen transit No. 6560, with horizontal limb 4.50 ins. diam., having two double opposite verniers, and full vertical circle 4.50 ins. diam., having one double vernier; the verniers read to one minute of arc. The instrument was in good condition at the time of the survey, and all adjustments were in good order.

All azimuths in this record were determined by the method of deflection angles referred to the meridian determined by the following observations:

March 23, 1970, at Cor. No. 1, Evening Star Placer, in Latitude 43° 08' N., and Longitude 123° 09' W., I make a series of six altitude observations upon the sun for azimuth at approximately equal time intervals, three each with the telescope in direct time intervals, three each with the telescope in direct and reversed positions, observing opposite limbs of the sun, and reading the horizontal angle from a reference point about 200 feet northward, SW. to the sun.

Mean time of observations, 120th meridian standard time	- 3h 15m p.m.
Declination of sun at mean time of observation	- 1° 09' 27" N.
Mean observed vertical angle to sun's center	- 32° 22'
Mean horizontal angle from reference point to sun's center	-105° 47'
True bearing to reference point	N. 18° 19' W.
From reference point, turn left 97° 45' to line 1-2 Evening Star Placer. True bearing of line 1-2 Evening Star Placer	- S. 63° 56' W.

The lines were measured with a Keuffel and Esser steel tape, 301 feet in length, graduated every foot, with the end feet graduated in tenths, and a five tenths foot scale graduated in hundredths; the tape was compared with a Dietzgen standardized steel tape, No. 839 at the time of making the survey, and found to be correct.

The lines of this survey were run by direct methods the connections were run by traverse methods as shown by the calculation sheets herewith submitted.

The magnetic declination observed at each corner of the survey gave a uniform value of 20° 00' E.

SURVEY NO. 979

**MORNING STAR PLACER**

At Cor. No. 1 of the Morning Star Placer.

Set an iron pipe, 24 ins. long, 1½ ins. diam., 22 ins. in the ground, mkd. MS-1-979; from which

The ¼ sec. Cor. of Sections 14 and 15, T. 28 S., R. 4 W., Willamette Meridian, bears N. 3° 12' E., 187.84 ft. dist., an iron pipe with brass cap mkd. ¼ S 15/14 T28S R4W County Surveyor's Office 1957.

A cedar, 30 ins. diam., bears N. 83° 30' W., 69.4 ft. dist., mkd. MS-1-979 BT.

A hemlock, 12 ins. diam., bears S. 38° 30' W., 43.9 ft. dist., mkd. MS-1-979 BT.