

CHAINS

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

FIELD NOTES  
OF THE  
DEPENDENT RESURVEY OF  
THE SOUTH ONE-HALF MILE BETWEEN SECTIONS 13 AND 14,  
**TOWNSHIP 25 SOUTH, RANGE 7 WEST,**  
OF THE  
WILLAMETTE MERIDIAN  
IN THE STATE OF OREGON.

**EXECUTED BY**

**Bryan S. Seibold, Cadastral Surveyor**

**Robert H. Browning, Surveying Technician**

Under Special Instructions dated June 30, 1995,  
and approved June 30, 1995,  
which provided for the surveys included under Group No. 1778,  
and Assignment Instructions dated October 18, 1995.

**Survey commenced October 19, 1995**

**Survey completed November 6, 1995**

**T. 25 S., R. 7 W., Willamette Meridian, Oregon**

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The following field notes are those of the dependent resurvey of the south one-half mile between sections 13 and 14, township 25 south, range 7 west, Willamette Meridian, Oregon.

The history of surveys pertaining to this resurvey is as follows:

In 1856 and in 1857-58, Dennis Hathorn, U.S. Deputy Surveyor, surveyed a portion of the subdivisional lines.

In 1896, William P. Heydon, U.S. Deputy Surveyor, retraced a portion of the subdivisional lines and completed the survey of the subdivisional lines.

In 1967-68, Lynn M. Roseberry, Cadastral Surveyor, resurveyed portions of the north and east boundaries and subdivisional lines.

The survey was executed in accordance with the specifications set forth in the Manual of Surveying Instructions, 1973, and the Special Instructions dated June 30, 1995, for Group No. 1778, Oregon.

The directions of the lines are based on the true meridian as determined by direct solar observations and were carried forward by means of sustained angulation. All measurements along the lines were derived through the use of electronic measuring equipment. An analysis of the unadjusted field data assured a closure not exceeding 1:4000 in error. Measured distances and directions have been adjusted by Cadastral Measurement Management (CMM), a computer program that incorporates least squares analysis. The adjusted bearings and distances are reported to the nearest second and 0.001 of a chain.

Preliminary to the resurvey, the lines of the prior surveys were retraced and search was made for all corners and other calls of record. The retracement data were thoroughly verified and only the true line field notes are given herein.

Detectable Electronically Energized Particles (DEEP-1 TM) were buried as memorials at certain corner monuments. The DEEP-1 is composed of strontium encased in a color coded plastic container. The units are 1 inch in diameter, 2½ inches long, weigh 2½ ounces, and are magnetically detectable to an average depth of 8 feet.

The geographic position (NAD 1983(91)) of the south 1/16 section corner of sections 13 and 14, as determined by a tie to EC41245, established by the Bureau of Land Management, is as follows:

Latitude: 43° 23' 34.16" N. Longitude: 123° 29' 08.67" W.

The mean magnetic declination is 19° East.

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**Dependent Resurvey of a Portion of the Subdivisional Lines,  
T. 25 S., R. 7 W., Willamette Meridian, Oregon**

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(Restoring the surveys by Dennis Hathorn in 1856 and 1857-58)

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Beginning at the cor. of secs. 13, 14, 23 and 24, monumented with an iron post, 1 in. diam., firmly set, projecting 1 in. above ground, with brass cap mkd.

T25S	R7W
S 14	S 13
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S 23	S 24
1968	

from which the remains of the original bearing trees

An oak snag, 36 ins. diam., bears N. 24° E., 248 lks. dist., with rotted opened blaze. (Record, 251 lks. dist.)

An oak, 34 ins. diam., bears N. 15 3/4° W., 275 lks. dist., with rotted opened blaze.

and bearing trees mkd. by Roseberry

A madrone, 22 ins. diam., bears N. 71½° E., 151 lks. dist., with healed blaze. (Record, N. 70 3/4° E.)

A fir, 42 ins. diam., bears S. 77° E., 175 lks. dist., with healed blaze. (Record, 173 lks.)

An oak, 18 ins. diam., bears S. 61° W., 318 lks. dist., with healed blaze.

A fir, 29 ins. diam., bears N. 46° W., 328 lks. dist., with healed blaze.

From this point, a point incorrectly established as the cor. of secs. 13, 14, 23, and 24 by Bruce A. Shaner, Registered Professional Engineer No. 4906, in 1972, from the remains of the original bearing trees and bearing trees mkd. by Roseberry in 1968, bears N. 75° 12' 30" E., 0.255 chs. dist., recorded in the Douglas County Surveyors Office map file M49-1; monumented with an iron post, 1¼ ins. diam., firmly set, projecting 18 ins. above ground, with brass cap mkd. T25S R7W WM S14 S13 S23 S24 1972.

N. 0° 39' 52" W., bet. secs. 13 and 14.

Ascend over steep SW. slope, through grass clearing.

4.95 Spur, slopes S. 40° E.; continue ascent over broken SE. slope, enter timber and moderate undergrowth.

19.020 Point for the S 1/16 sec. cor. of secs. 13 and 14.

Set a stainless steel post, 28 ins. long, 2½ ins. diam., 26 ins. in the ground, with brass cap mkd.

S 1/16	
S 14	S 13
1995	

**Dependent Resurvey of a Portion of the Subdivisional Lines,  
T. 25 S., R. 7 W., Willamette Meridian, Oregon**

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	<p>from which a bearing tree mkd. by Bruce A. Shaner, Registered Professional Engineer No. 4906, in 1972</p> <p style="padding-left: 40px;">A fir, 38 ins. diam., bears N. 66½° E., 28 lks. dist., with healed blaze.</p> <p>and a new bearing tree</p> <p style="padding-left: 40px;">A fir, 11 ins. diam., bears S. 31 3/4° W., 72 lks. dist., mkd. S1/16 S14 BT.</p> <p>Deposit a white "DEEP-1" magnetic marker at base of stainless steel post.</p> <p>From this point, a point established as the S 1/16 sec. cor. of secs. 13 and 14 by Bruce A. Shaner, Registered Professional Engineer No. 4906, in 1972, bears N. 75° 10' 59" E., 0.134 chs. dist., recorded in the Douglas County Surveyors Office map file M49-1; monumented with an iron post, 1¼ ins. diam., firmly set, projecting 10 ins. above ground, with brass cap mkd. T25S R7W WM S1/16 S14 S13 1972, from which the remains of bearing trees mkd. by Shaner:</p> <p style="padding-left: 40px;">A fir, 38 ins. diam., bears N. 58½° E., 15½ lks. dist., with healed blaze.</p> <p style="padding-left: 40px;">A sawed fir stump, 45 ins. diam., bears N. 54½° W., 27 lks. dist., with healed blaze.</p> <p>This corner was rejected due to improper control and was not used in this survey.</p> <p>From this same point, the Bureau of Land Management, Geodetic Control Station No. EC41245, at latitude 43° 23' 36.631" N., longitude 123° 29' 14.314" W. (NAD 1983(91)), determined by the NAVSTAR Global Positioning System, bears N. 59° 03' 03" W., 7.364 chs. dist. (mean bearing and sea level distance); monumented with an aluminum cap, firmly set flush with the ground, with top mkd. EC41245 GPS 1995.</p> <p>Ascend over broken SE. slope, changing to desc. over broken NW. slope.</p>
33.15	Graveled road, 30 lks. wide, bears N. 70° E. and S. 70° W.
38.040	<p>The 1/4 sec. cor. of secs. 13 and 14, perpetuated by Milo Godfrey, Deputy County Surveyor, in 1962, recorded in the Douglas County Surveyors Record of Government Corners Renewed, T. 25 S., R. 7 W., No. 600440; monumented with an iron post, 1¼ ins. diam., firmly set, projecting 16 ins. above ground, with brass cap mkd.</p> <p style="text-align: center;">COUNTY SURVEYORS OFFICE T25S 1/4 S 14   S 13 R7W 1962</p> <p>from which the remains of an original bearing tree</p>

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A decayed fir stump, 35 ins. diam., bears S.  $82\frac{1}{4}^{\circ}$  E.,  $44\frac{1}{2}$  lks. dist., no marks visible. (Record, S.  $80^{\circ}$  E., 42 lks. dist.)

and bearing trees mkd. by Godfrey

A fir, 26 ins. diam., bears S.  $60\frac{1}{4}^{\circ}$  E., 64 lks. dist., with healed double blaze.

A fir, 22 ins. diam., bears S.  $72\frac{3}{4}^{\circ}$  W., 14 lks. dist., with healed double blaze.

The corner is located S., 1.15 chs. dist. of a dirt road, 20 lks. wide, bears N.  $70^{\circ}$  E. and S.  $55^{\circ}$  W.

GENERAL DESCRIPTION

The lands included in the foregoing resurvey are located in hilly country approximately two and one-quarter miles northwesterly of Umpqua, Oregon. The elevation ranges from approximately 1650 feet above sea level at the corner of sections 13, 14, 23 and 24 to about 2200 feet above sea level north of the S  $1/16$  section corner of sections 13 and 14.

The area is drained by small and seasonal drainage. The timber consists of fir, cedar, pine and madrone trees. The undergrowth is mainly salal, arrowwood, ferns and young timber.

Access is gained via Interstate Route 5, State Highway No. 138, County Roads Nos. 6, 9, 31A, 31D and 33, with graveled and dirt roads branching from them into the area.

No mineral deposits were noted along the line resurveyed. The lands are used primarily for timber.

The mean magnetic declination, as taken from United States Geological Survey Quadrangle map "TYEE MOUNTAIN, OREGON," provisional edition 1987, is  $19^{\circ}$  East.