

CHAINS

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

FIELD NOTES  
OF THE  
DEPENDENT RESURVEY OF A PORTION OF THE SUBDIVISIONAL LINES  
AND  
THE SUBDIVISION OF SECTION 3,  
**TOWNSHIP 21 SOUTH, RANGE 4 WEST,**  
OF THE WILLAMETTE MERIDIAN,  
IN THE STATE OF OREGON.

**EXECUTED BY**

***Daniel N. Patterson, Cadastral Surveyor***

***Craig L. Wanless, Cadastral Surveyor***

Under Special Instructions dated July 8, 1993, approved July 8, 1993,  
which provided for the surveys included under Group No. 1705,  
and Assignment Instructions dated July 13, 1993, and September 7, 1993.

***Survey commenced August 9, 1993***

***Survey completed October 12, 1993***

## T. 21 S., R. 4 W., Willamette Meridian, Oregon

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The following field notes are those of the dependent resurvey of a portion of the subdivisional lines and the subdivision of section 3, township 21 south, range 4 west, Willamette Meridian, Oregon.

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

In 1854, Harvey Gordon, U.S. Deputy Surveyor, surveyed the north boundary of the township.

In 1855-56, Harvey Gordon and Charles T. Gardiner, U.S. Deputy Surveyors, surveyed the subdivisional lines.

In 1970-71, Floyd A. Brooks, Gurdon S. Popken, Gary T. Oviatt, and Timothy A. Kent, Cadastral Surveyors, resurveyed the north boundary of the township.

In 1991-93, Craig L. Wanless and Daniel N. Patterson, Cadastral Surveyors, dependently resurveyed a portion of the north boundary.

The survey was executed in accordance with the specifications set forth in the Manual of Surveying Instructions, 1973, and the Special Instructions dated July 8, 1993, for Group No. 1705, Oregon.

Preliminary to the resurvey, the lines of the prior surveys were retraced and search was made for all corners and other calls of the record. Identified corners were remonumented in their original positions. Lost corners were reestablished and remonumented at proportionate positions based on the official record. The retracement data were thoroughly verified and only the true line field notes are given herein.

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 to exceed 1:4000 in error. Measured distance and direction have been adjusted by the 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.

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 1927) of the ¼ section corner of sections 3 and 34 on the north boundary of the township, as determined by a tie to electronic control station EC 41182, established by the Bureau of Land Management in 1993, is as follows:

Latitude 43° 46' 47.22" N. Longitude 123° 09' 21.78" W.

## T. 21 S., R. 4 W., Willamette Meridian, Oregon

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The mean magnetic declination is 19° East.

**Dependent Resurvey of a Portion of the Subdivisional Lines,  
T. 21 S., R. 4 W., Willamette Meridian, Oregon**

(Restoring the survey by Harvey Gordon and  
Charles T. Gardiner in 1855-56)

Beginning at the cor. of secs. 2, 3, 10, and 11, perpetuated by Vernon R. Tracy, Douglas County Deputy Surveyor, in 1969, recorded in the Douglas County Survey File No. 54/14 (101), monumented with an iron pipe, 1 in. diam., firmly set, projecting 18 ins. above the ground, with brass cap mkd.

T 21 S R 4 W  
S 3 \* S 2  
-----  
S 10 \* S 11  
1969

from which the remains of original bearing trees

A decayed root crown, size indeterminate, bears S. 70° E., 43 lks. dist., no marks visible.

A sawed and decayed fir stump, 72 ins. diam., bears N. 30° W., 9 lks. dist., no marks visible.

and bearing trees mkd. by Tracy

A cedar, 24 ins. diam., bears N. 55° E., 83 lks. dist., with healed double blaze.

A fir, 15 ins. diam., bears S. 28° E., 25½ lks. dist., with timber cruiser mark W and healed double blaze.

A fir, 15 ins. diam., bears S. 22° W., 29½ lks. dist., with healed double blaze.

A fir, 14 ins. diam., bears N. 83° W., 17½ lks. dist., with healed double blaze.

S. 88° 52' 29" W., bet. secs. 3 and 10.

Ascend over SE. slope, through heavy timber and light undergrowth.

9.35	Top of ascent, slopes S.; desc. over SW. slope.
13.95	Graveled road, 15 lks. wide, bears N. 5° E. and S. 5° W.
16.55	Creek, 5 lks. wide, course S. 15° W.; asc. over SE. slope.
39.20	Top of ascent, slopes S. 10° E.; desc. over SW. slope.
40.056	Point for the ¼ sec. cor. of secs. 3 and 10, at proportionate distance; there is no remaining evidence of the original corner.

**Dependent Resurvey of a Portion of the Subdivisional Lines,  
T. 21 S., R. 4 W., Willamette Meridian, Oregon**

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	<p>Set a stainless steel post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T 21 S R 4 W S 3 ¼ ----- S 10 1993</p> <p>from which</p> <p style="padding-left: 40px;">A cedar, 14 ins. diam., bears S. 45° W., 35 lks. dist., mkd. ¼ S10 BT.</p> <p style="padding-left: 40px;">A fir, 9 ins. diam., bears N. 11° W., 2½ lks. dist., mkd. ¼ S3 BT.</p> <p>Deposit a white "DEEP-1" magnetic marker at base of stainless steel post.</p> <p>Descend over SW. slope.</p>
48.50	Bottom of descent, drains S. 10° W.; asc. over SE. slope.
52.90	Dirt road, 20 lks. wide, bears N. 20° E. and S. 20° W.
72.90	Top of ascent, slopes S. 10° E.; desc. over SW. slope.
80.112	<p>The cor. of secs. 3, 4, 9, 10, perpetuated by J. W. Cole, Douglas County Deputy Surveyor, in 1920, recorded in the Douglas County Survey Field Book No. 48, page 55, further perpetuated by Vernon R. Tracy, Douglas County Deputy Surveyor, in 1969, recorded in Douglas County Survey File No. 54/14 (109), further perpetuated by Gary T. Johnston, Registered Land Surveyor No. 1467, in 1986, recorded in Douglas County Survey File No. M 102-14, further perpetuated by Donald L. Peel, Registered Land Surveyor No. 752, in 1990, recorded in Lane County Survey File No. 29305, monumented with an iron pipe, 1 in. diam., firmly set, projecting 14 ins. above the ground, with brass cap mkd.</p> <p style="text-align: center;">T 21 S S 4 * S 3 ----- S 9 * S 10 R 4 W 1969</p> <p>from which the remains of original bearing trees</p> <p style="padding-left: 40px;">A decayed fir stump, 48 ins. diam., bears S. 7½° W., 38½ lks. dist., no marks visible. (Record, S. 12° W., 37 lks.)</p> <p style="padding-left: 40px;">A decayed cedar stump, size indeterminate, bears N. 68° W., 3 lks. dist., no marks visible.</p> <p>and bearing trees mkd. by Tracy</p> <p style="padding-left: 40px;">A fir, 21 ins. diam., bears N. 84° E., 56½ lks. dist., with healed blaze.</p>

**Dependent Resurvey of a Portion of the Subdivisional Lines,  
T. 21 S., R. 4 W., Willamette Meridian, Oregon**

CHAINS	
	<p>A chinquapin, 12 ins. diam., bears S. 60° W., 33 lks. dist., with fragmentary scribe marks visible on partially open blaze.</p> <p>and a new bearing tree</p> <p>A fir, 15 ins. diam., bears S. 21° E., 25½ lks. dist., mkd. T21S R4W S10 BT.</p> <p>No suitable trees available in sec. 4.</p> <hr/> <p>N. 1° 26' 05" E., bet. secs. 3 and 4.</p> <p>Ascend over S. slope, along W. edge of timber, bears N. and S.</p> <p>9.15 Top of ascent, slopes S.; desc. over N. slope.</p> <p>12.55 Bottom of descent, drains N. 60° E.; asc. over SE. slope.</p> <p>20.176 Point for the S 1/16 sec. cor. of secs. 3 and 4.</p> <p>Set a stainless steel post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">S 1/16 S 4 * S 3 1993</p> <p>from which</p> <p>A fir, 16 ins. diam., bears N. 13° E., 37½ lks. dist., mkd. S 1/16 S3 BT.</p> <p>A fir, 17 ins. diam., bears N. 84½° E., 25½ lks. dist., mkd. S 1/16 S3 BT.</p> <p>No suitable trees available in sec. 4.</p> <p>Deposit a white "DEEP-1" magnetic marker at base of stainless steel post.</p> <p>The corner is located on the W. edge of timber, edge bears N. and S.</p> <p>Ascend over SE. slope.</p> <p>32.25 Dirt road, 15 lks. wide, bears N. 70° E. and S. 70° W. Also, top of ascent, slopes S. 80° E.; desc. over NE. slope.</p> <p>40.352 The ¼ sec. cor. of secs. 3 and 4, perpetuated by J. W. Cole, Douglas County Deputy Surveyor, in 1920, recorded in Douglas County Survey Field Book No. 48, page 57, further perpetuated by Vernon R. Tracy, Douglas County Deputy Surveyor, in 1969, recorded in Douglas County Survey File No. 54/14 (110), and further perpetuated by Donald L. Peel, Registered Land Surveyor No. 752, in 1990, recorded in Lane County Survey File No. 29305, monumented with an iron pipe, 1 in. diam., firmly set, projecting 14 ins. above the ground, in a mound of stone, 3 ft. diam., 12 ins. high, with brass cap mkd.</p>

**Dependent Resurvey of a Portion of the Subdivisional Lines,  
T. 21 S., R. 4 W., Willamette Meridian, Oregon**

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T 21 S  
¼ S 4 \* S 3  
R 4 W  
1969

from which the remains of an original bearing tree

A burned and decayed cedar snag, 21 ins. diam., bears N. 43 3/4° W., 36 lks. dist., no marks visible on opened blaze. (Record, N. 47° W.)

and the remains of bearing trees mkd. by Tracy

A root hole, bears N. 1° E., 22½ lks. dist., alongside of which is lying a fir, 14 ins. diam., with fragmentary scribe marks visible on opened blaze.

A sawed fir stump, 16 ins. diam., bears S. 54½° W., 19½ lks. dist., with healed blaze.

and new bearing trees

A cedar, 33 ins. diam., bears N. 70 3/4° E., 211½ lks. dist., mkd. ¼ S3 BT.

A fir, 15 ins. diam., bears S. 45° E., 129 lks. dist., mkd. ¼ S3 BT.

No suitable tree available in sec. 4.

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**Subdivision of Section 3,  
T. 21 S., R. 4 W., Willamette Meridian, Oregon**

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From the ¼ sec. cor. of secs. 3 and 10.

N. 1° 33' 02" E., on the N. and S. centerline of sec. 3.

Ascend over SW. slope, through heavy timber and light undergrowth.

6.05 Top of ascent, slopes S. 60° W.; desc. over NE. slope.

8.15 Graveled road, 20 lks. wide, bears N. 80° E. and S. 80° W.

12.40 Slope change; desc. over NW. slope.

20.104 Point for the center S 1/16 sec. cor. of sec. 3.

Set a stainless steel post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.

C  
S 1/16 \* S 3  
C  
1993

from which

Subdivision of Section 3,  
T. 21 S., R. 4 W., Willamette Meridian, Oregon

CHAINS	
	<p>A fir, 19 ins. diam., bears N. 56½° E., 23½ lks. dist., mkd. CS 1/16 S3 BT.</p> <p>A fir, 15 ins. diam., bears S. 19½° W., 36 lks. dist., mkd. CS 1/16 S3 BT.</p> <p>Deposit a white "DEEP-1" magnetic marker at base of stainless steel post.</p> <p>Descend over NW. slope.</p>
24.45	Creek, 5 lks. wide, course N. 70° W.; asc. over SE. slope.
35.05	Slope change; asc. over SW. slope.
37.55	Top of ascent, slopes S. 50° W.; desc. over NW. slope.
40.208	Point for the center ¼ sec. cor. of sec. 3, at intersection with the E. and W. centerline.
	<p>Set a stainless steel post, 28 ins. long, 2½ ins. diam., 26 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T 21 S R 4 W C ¼ S3 1993</p> <p>from which</p> <p>A fir, 14 ins. diam., bears N. 25° E., 17½ lks. dist., mkd. C¼ S3 BT.</p> <p>A fir, 13 ins. diam., bears S. 59½° W., 57 lks. dist., mkd. C¼ S3 BT.</p> <p>Deposit a white "DEEP-1" magnetic marker at base of stainless steel post.</p>
47.75	Creek, 5 lks. wide, course S. 80° W.; asc. over SE. slope.
66.10	Graveled road, 20 lks. wide, bears N. 65° E. and S. 65° W. Also, top of ridge, bears N. 65° E. and S. 65° W.; desc. over NW. slope.
80.765	The ¼ sec. cor. of secs. 3 and 34, on the N. bdy. of the Tp., monumented with an iron post, 2½ ins. diam., firmly set, projecting 4 ins. above the ground, with brass cap mkd.
	<p style="text-align: center;">T 20 S R 4 W S 34 ¼ ----- S 3 T 21 S 1971</p> <p>from which the remains of bearing trees mkd. by Brooks, Popken, Oviatt, and Kent</p> <p>A root hole, bears S. 34½° E., 28½ lks. dist., alongside of which is lying a fir, 8 ins. diam., with healed blaze. (Record, 25½ lks.)</p>

**Subdivision of Section 3,  
T. 21 S., R. 4 W., Willamette Meridian, Oregon**

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A fir, 14 ins. diam., bears S.  $76\frac{3}{4}^{\circ}$  W., 41 lks. dist.,  
with healed blaze. (Record, S.  $79\frac{1}{2}^{\circ}$  W., 40 lks.)

and a new bearing tree

A fir, 15 ins. diam., bears S.  $25\frac{1}{2}^{\circ}$  E., 65 lks. dist., mkd.  
 $\frac{1}{4}$  S3 BT.

No suitable tree available in sec. 34.

The corner is located at the N. edge of timber, bears E. and W.

From this point, the Bureau of Land Management Geodetic Control  
Station No. EC 41182, at latitude  $43^{\circ} 46' 52.72''$  N., longitude  
 $123^{\circ} 09' 39.45''$  W., bears N.  $66^{\circ} 45' 31''$  W., 21.377 chs. dist.  
(mean bearing and sea level distance), monumented with an aluminum  
rod,  $\frac{3}{4}$  in. diam., firmly set flush with the surface of the  
ground, with aluminum cap mkd. EC 41182 GPS 1993.

From the  $\frac{1}{4}$  sec. cor. of secs. 2 and 3, perpetuated by Ronald W.  
VanDomelin, Bureau of Land Management Project Engineer, in 1968,  
recorded in the Eugene District, Bureau of Land Management,  
Eugene, Oregon, subsequently perpetuated by Charles W. Guile,  
Registered Land Surveyor No. 472, in 1987, recorded in the Douglas  
County Survey File No. 63/45 (N), monumented with an iron pipe, 1  
in. diam., firmly set, projecting 4 ins. above the ground, with  
plastic cap mkd. GUILLE PLS 472, from which the remains of the  
original bearing trees:

A root hole, bears N.  $80^{\circ}$  E., 21 lks. dist.

A sawed fir stump, 24 ins. diam., bears S.  $55^{\circ}$  W., 28 lks.  
dist., no marks visible on open blaze. (Record, 27 lks.)

and the remains of bearing trees mkd. by VanDomelin

A fir snag, 17 ins. diam., bears S.  $72\frac{1}{2}^{\circ}$  E.,  $37\frac{1}{2}$  lks. dist.,  
with nail at base of snag.

A chinquapin, 21 ins. diam., bears N.  $67^{\circ}$  W.,  $10\frac{1}{2}$  lks. dist.,  
with nail at base of tree.

and bearing trees mkd. by Guile

A fir, 13 ins. diam., bears S.  $20^{\circ}$  E., 44 lks. dist., with  
healed blaze.

A fir, 17 ins. diam., bears N.  $1\frac{1}{2}^{\circ}$  W., 24 lks. dist., with  
healed blaze.

At the corner point

Set a stainless steel post, 28 ins. long,  $2\frac{1}{2}$  ins. diam., 24 ins.  
in the ground, with brass cap mkd.

T 21 S R 4 W  
 $\frac{1}{4}$   
S 3 \* S 2  
1993

**Subdivision of Section 3,  
T. 21 S., R. 4 W., Willamette Meridian, Oregon**

CHAINS	
	<p>Deposit a white "DEEP-1" magnetic marker at base of stainless steel post and iron pipe inside.</p> <p>The corner is located at SW. corner of logged area, edges extend N. and E.</p> <p>S. 89° 05' 21" W., on the E. and W. centerline of sec. 3.</p> <p>Descend over SW. slope, through heavy timber and light undergrowth.</p>
40.012	<p>The center ¼ sec. cor. of sec. 3.</p> <p>Descend over SW. slope.</p>
52.85	<p>Creek, 10 lks. wide, course N. 10° E.; asc. over NE. slope.</p>
80.138	<p>The ¼ sec. cor. of secs. 3 and 4.</p> <hr/> <p>From the center S 1/16 sec. cor. of sec. 3.</p> <p>S. 88° 58' 49" W., on the E. and W. centerline of the SW¼ of sec. 3.</p> <p>Ascend over NE. slope, through heavy timber and moderate undergrowth.</p>
23.15	<p>Spur, slopes N.; desc. over NW. slope.</p>
30.20	<p>Bottom of descent, drains N. 65° E.; asc. over SE. slope.</p>
35.20	<p>Dirt road, 20 lks. wide, bears N. 30° E. and S. 30° W.</p>
40.091	<p>The S 1/16 sec. cor. of secs. 3 and 4.</p> <hr/> <p style="text-align: center;">GENERAL DESCRIPTION</p> <p>The lands included in this survey are located in Lane and Douglas Counties about five miles southwest of Cottage Grove, Oregon. The area is reached by traveling south along Interstate Highway No. 5. The area is accessible by numerous graveled roads throughout the section.</p> <p>The elevation ranges from about 900 feet above sea level near the center of section 3, up to about 1,340 feet above sea level near the corner of sections 2, 3, 10 and 11. The area drains northwesterly into the Siuslaw River.</p> <p>The timber cover is generally dense and consists primarily of Douglas fir, hemlock, cedar, alder, and maple. The undergrowth is moderate and consists primarily of young timber, vine maple, blackberry, poison oak, vines, and ferns. The land is chiefly valuable for timber resources.</p> <p>No mineral deposits were noted along the line resurveyed and there is no mining activity within section 3.</p>

**T. 21 S., R. 4 W., Willamette Meridian, Oregon**

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The mean magnetic declination is 19° East, as shown on the "LORANE, OREG." 7½ minute, provisional edition, quadrangle map, published by the United States Geological Survey in 1984.