

ORIGINAL

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD NOTES

OF THE

CORRECTIVE RETRACEMENT OF

A PORTION OF THE OREGON-WASHINGTON STATE BOUNDARY

THROUGH RANGES 31 AND 32 EAST

AND A CORRECTIVE RETRACEMENT OF A PORTION OF

THE SUBDIVISIONAL LINES,

TOWNSHIP 6 NORTH, RANGE 31 EAST,

OF THE WILLAMETTE MERIDIAN,

IN THE STATE OF OREGON.

EXECUTED BY

Bryan S. Seibold, Cadastral Surveyor

Under Special Instructions dated August 19, 2002, approved
August 19, 2002, which provided for the surveys included under
Group No. 2032, and Assignment Instructions dated August 19, 2002

Survey commenced May 5, 2003***Survey completed May 28, 2003***

INDEX DIAGRAM

TOWNSHIP 06 NORTH

RANGE 31 EAST

18	17	16	15	14	13
19	8 20	7 21	2 22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

T. 6 N., Rs. 31 and 32 E., Willamette Meridian, Oregon

FEET

The following field notes are those of the corrective retracement of a portion of the Oregon-Washington State boundary, through ranges 31 and 32 east, and the corrective retracement of a portion of the subdivisional lines, township 6 north, range 31 east, Willamette Meridian, Oregon.

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

In 1864, Daniel Major, U.S. Deputy Surveyor, surveyed the Oregon-Washington State boundary through Rs. 31 and 32 E.

In 1874, Nicholas Walden, U.S. Deputy Surveyor, surveyed the subdivisional lines (in Oregon) of T. 6 N., Rs. 31 and 32 E.

In 1980-81, William D. Kimmel, Cadastral Surveyor, resurveyed a portion of the subdivisional lines (in Oregon), and retraced a portion of the subdivisional lines (in Oregon) of T. 6 N., R. 31 E., and retraced a portion of the Oregon-Washington State boundary through Rs. 31 and 32 E.

In April 2001, William R. Wells, Registered Professional Land Surveyor No. 1106, notified this office in writing that he had recovered original evidence at the 7½, 9, 9½, and 12 mile corners on the Oregon-Washington State boundary. A field investigation verified this information, necessitating this corrective action.

The survey was executed in accordance with the specifications set forth in the Manual of Surveying Instructions, 1973, and the Special Instructions dated August 19, 2002, for Group No. 2032, Oregon.

The survey was performed utilizing both terrestrial and satellite technology. The satellite measurements utilized the NAVSTAR Global Positioning System (GPS), using dual frequency, carrier phase GPS receivers. The GPS portion of the survey was executed in accordance with the "Standards and Guidelines for Cadastral Surveys Using Global Positioning System Methods", dated May 9, 2001, published by the U.S. Department of Interior-Bureau of Land Management and the U.S. Department of Agriculture-Forest Service. Corners and accessories not occupied directly by GPS were tied by angle and distance measurements through the use of electronic measuring equipment. The basis of bearings for these measurements were determined by GPS techniques or solar observations. Measured distances and directions have been adjusted by Trimble Geomatics Office (TGO), computer software that incorporates a least squares adjustment

T. 6 N., Rs. 31 and 32 E., Willamette Meridian, Oregon

FEET

routine. The adjusted bearings and distances are reported to the nearest second and 0.01 foot.

The lines of the prior surveys were retraced and search was made for all corners and other calls of record. Certain lost corners were reestablished and remonumented at proportionate positions based on the official record.

The geographic position (NAD 1983 (98)) of the initial point (0 mile corner) on the Oregon-Washington State boundary, as determined by direct GPS occupation (see the Control Data Sheet attached to these field notes following the General Description), by the Bureau of Land Management, in 2003, is as follows:

Latitude: 46° 00' 01.502" N. Longitude: 118° 58' 34.646" W.

Geographic positions for additional PLSS corners were also determined by direct GPS occupation in the course of this retracement. A listing of these corners and the associated geographic positions is provided in a table attached to these field notes following the Control Data Sheet.

**Corrective Retracement of a Portion of the Oregon-Washington
State Boundary Through Ranges 31 and 32 East, and the
Corrective Retracement of a Portion of the Subdivisional Lines,
T. 6 N., R. 31 E., Willamette Meridian, Oregon**

Restoring the surveys by Daniel Major, in 1864, and
Nicolas Walden in 1874, and correcting the
retracement by William D. Kimmel in 1980-81)

Beginning at the cor. of secs. 21, 22, 27, and 28, monumented with an iron post, 2½ ins. diam., firmly set, projecting 4 ins. above a collar of stone, with brass cap mkd.

T 6 N	R 31 E
S 21	S 22
S 28	S 27

1980

No accessories.

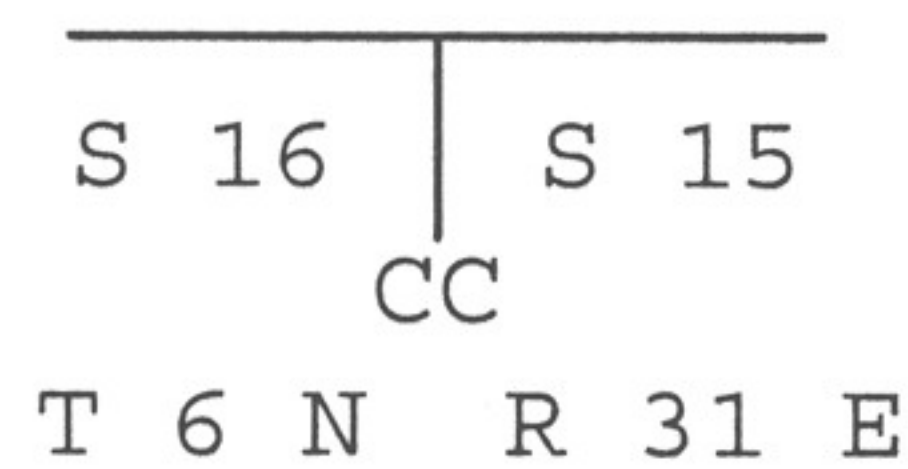
Corrective Retracement of a Portion of the Oregon-Washington
State Boundary Through Ranges 31 and 32 East, and the
Corrective Retracement of a Portion of the Subdivisional Lines,
T. 6 N., R. 31 E., Willamette Meridian, Oregon

FEET

Steel fence post alongside.

From this point, the point for the closing cor. of secs. 15 and 16, at proportionate dist., on the Oregon-Washington State bdy., bears N. $0^{\circ} 50' 02''$ E., 8110.91 ft. dist., there is no remaining evidence of the original cor.

Set a stainless steel post, 28 ins. long, $2\frac{1}{2}$ ins. diam., 46 ins. in the ground, the top 18 ins. below the ground surface, with brass cap mkd.



2003

from which

A stainless steel post, 28 ins. long, $2\frac{1}{2}$ ins. diam., set 26 ins. in the ground for a reference monument, bears N. $75^{\circ} 00' 00''$ E., 12.50 ft. dist., with brass cap mkd. RM T6N R31E CC S15 12.5 FT TO COR 2003 and an arrow pointing to the cor. Reference monument is located in a barbed wire fence extending E. and W. Drove steel fence post alongside.

A stainless steel post, 28 ins. long, $2\frac{1}{2}$ ins. diam., set 26 ins. in the ground for a reference monument, bears N. $70^{\circ} 00' 00''$ W., 10.00 ft. dist., with brass cap mkd. RM T6N R31E CC S16 10.0 FT TO COR 2003 and an arrow pointing to the cor. Reference monument is located in a barbed wire fence extending E. and W. Drove steel fence post alongside.

Deposit a magnet in a white plastic case at the base of the stainless steel post corner monument and one on top of the brass cap.

The closing cor. is located S., 3 ft. dist. from a barbed wire fence extending E. and W.

From this closing cor. of secs. 15 and 16, the point erroneously reestablished as the closing cor. of secs. 15 and 16 by William D. Kimmel, Cadastral Surveyor, in 1980-81, bears N. $79^{\circ} 28' 20''$ E., 79.01 ft. dist., monumented with an aluminum post, $2\frac{1}{2}$ ins. diam., firmly set 18 ins. below ground, with aluminum cap mkd. S16 S15 T6N R31E CC 1980. The aluminum cap

Corrective Retracement of a Portion of the Oregon-Washington
State Boundary Through Ranges 31 and 32 East, and the
Corrective Retracement of a Portion of the Subdivisional Lines,
T. 6 N., R. 31 E., Willamette Meridian, Oregon

FEET

was remarked AM T6N R31E 79.0 FT TO COR 2003 1980, and an arrow pointing to the cor.

Deposit a magnet in a white plastic case on top of the aluminum cap.

The reference monuments set by Kimmel were not recovered. The DEEP-1 magnets set by Kimmel were verified with a magnetic locator and left in place, however their exact position was not determined.

The amended monument is located in the S. track of a 2-track dirt road, 10 ft. wide, extending E. and W. and N., 12 ft. dist. from a barbed wire fence extending E. and W.

From this same closing cor. of secs. 15 and 16, the initial point (0 mile cor.), on the Oregon-Washington State bdy., bears S. 89° 47' 55" W., 10689.79 ft. dist., monumented with an iron post, 2½ ins. diam., firmly set flush with the ground, with brass cap mkd.

0 M
WASH
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ORE

1980

from which accessories set by Kimmel

An iron post, 2½ ins. diam., firmly set, projecting 2 ins. above a collar of stone for a reference monument, bears S. 49° 00' E., 106.90 ft. dist., with brass cap mkd. RM 107 FT 1980 and an arrow pointing to the cor.

An aluminum post, 2½ ins. diam., firmly set, projecting 4 ins. above a collar of stone for a reference monument, bears S. 5° 00' W., 239.90 ft. dist., with aluminum cap mkd. RM 240 FT 1980 and an arrow pointing to the cor.

The 0 mile cor. is located N. 45° W., 57 ft. dist. from the center of U.S. Hwy. No. 730, asphalt surfaced, 40 ft. wide, extending N. 40° E. and S. 40° W. and S. 45° E., 13 ft. dist. from the center of the Union Pacific railroad tracks, extending N. 40° E. and S. 40° W.

From this same closing cor. of secs. 15 and 16, the 7½ mile cor., on the Oregon-Washington State bdy., bears N. 89° 47' 55" E., 29654.38 ft. dist., perpetuated by

Corrective Retracement of a Portion of the Oregon-Washington
State Boundary Through Ranges 31 and 32 East, and the
Corrective Retracement of a Portion of the Subdivisional Lines,
T. 6 N., R. 31 E., Willamette Meridian, Oregon

FEET

William R. Wells, Registered Professional Land Surveyor No. 1106, in 2001, from original evidence no longer visible, recorded in the Umatilla County Surveyors office, map file No. 01-111-B, monumented with an iron post, 1 in. diam., firmly set in a collar of stone, to top, with brass cap mkd.

WPLS 17372

7.5 MILE

WASH

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ORE

2001

ORPLS 1106

from which accessories by Wells

The marks X BO, chiseled on exposed rock, 2 ft. x 1 ft. x 4 ins. high, bears S. 75½° E., 24.3 ft. dist.

The marks X BO, chiseled on exposed rock, 2½ x 2 x 1 ft., bears S. 26° E., 12.7 ft. dist.

An iron rod, 5/8 in. diam., firmly set flush with the ground for a reference monument, bears N. 66° 18' W., 45.60 ft. dist., with plastic cap mkd. ORPLS 1106 o WAPLS 17372, and has a steel fence post alongside.

From the 7½ mile cor., the 9 mile cor., on the Oregon-Washington State bdy., bears N. 89° 29' 51" E., 7908.20 ft. dist., perpetuated by William R. Wells, Registered Professional Land Surveyor No. 1106, in 2001, from original evidence no longer visible, recorded in the Umatilla County Surveyors office, map file No. 01-111-B, monumented with an iron post, 1 in. diam., firmly set in a collar of stone, to top, with brass cap mkd.

9 MILE

WASH

—
ORE

2001

PLS 1106

from which accessories by Wells

A brass tablet, firmly cemented flush in a concrete railroad bridge abutment, bears S. 14° 29' 15" W., 86.70 ft. dist., mkd. K378 1943.

Corrective Retracement of a Portion of the Oregon-Washington
State Boundary Through Ranges 31 and 32 East, and the
Corrective Retracement of a Portion of the Subdivisional Lines,
T. 6 N., R. 31 E., Willamette Meridian, Oregon

FEET

The marks X BO, chiseled on a boulder, 2 x 1 x 1 ft.,
bears N. $14\frac{1}{2}^{\circ}$ W., 55.1 ft. dist.

The 9 mile cor. is located N., 55 ft. dist. from Vansycle Creek,
5 ft. wide, course N. 85° W. and S., 24 ft. dist. from a dirt
road, 10 ft. wide, extending N. 80° E. and S. 80° W., and has a
steel fence post alongside.

From the 9 mile cor., the point erroneously accepted and
remonumented as the 9 mile cor. by William D. Kimmel, Cadastral
Surveyor, in 1980-81, bears N. $87^{\circ} 54' 44''$ E., 359.85 ft. dist.,
monumented with an aluminum post, $2\frac{1}{2}$ ins. diam., firmly set in a
mound of stone, 4 ft. base, to top, with aluminum cap mkd.
9M WASH ORE1980. The aluminum cap was remarked AM T6N R32E
359.8 FT TO COR 2003 1980, and an arrow pointing to the cor.
This position is rejected due to more substantial evidence
recovered by William R. Wells, Registered Professional Land
Surveyor No. 1106, in 2001.

From the 9 mile cor., the $9\frac{1}{2}$ mile cor., on the Oregon-Washington
State bdy., bears N. $89^{\circ} 09' 58''$ E., 2698.41 ft. dist.,
perpetuated by William R. Wells, Registered Professional Land
Surveyor No. 1106, in 2001, from original evidence no longer
visible, recorded in the Umatilla County Surveyors office, map
file No. 01-111-B, monumented with an iron post, 1 in. diam.,
firmly set in a collar of stone, to top, with brass cap mkd.

9.5 MILE

WASH

—
ORE

2001

PLS 1106

from which accessories set by Wells

An iron rod, $\frac{5}{8}$ in. diam., firmly set flush with the
ground for a reference monument, bears S. $37^{\circ} 22'$ E.,
80.00 ft. dist., with plastic cap mkd. ORPLS 1106 o
WAPLS 17372. Reference monument is located in a
dilapidated barbed wire fence extending N. 35° W. and
S. 35° E.

An iron rod, $\frac{5}{8}$ in. diam., firmly set flush with the
ground for a reference monument, bears N. $35^{\circ} 56'$ W.,
89.36 ft. dist., with plastic cap mkd ORPLS 1106 o WAPLS
17372. Reference monument is located in a dilapidated
barbed wire fence extending N. 35° W. and S. 35° E.

Corrective Retracement of a Portion of the Oregon-Washington
State Boundary Through Ranges 31 and 32 East, and the
Corrective Retracement of a Portion of the Subdivisional Lines,
T. 6 N., R. 31 E., Willamette Meridian, Oregon

FEET

The 9½ mile cor. is located N. 65° E., 2 ft. dist. from a dilapidated barbed wire fence extending N. 35° W. and S. 35° E., and has a steel fence post alongside.

These control lines were fully retraced and careful search was made for evidence of intervening cors., none of which were recovered.

From the cor. of secs. 20, 21, 28, and 29, monumented with an iron post, 2½ ins. diam., firmly set, projecting 3 ins. above ground, with brass cap mkd.

T 6 N	R 31 E
S 20	S 21
S 29	S 28

1980

No accessories.

Corner has steel fence post alongside.

From this point, the point for the closing cor. of secs. 16 and 17, at proportionate dist., on the Oregon-Washington State bdy., bears N. 0° 17' 18" E., 8141.57 ft. dist., there is no remaining evidence of the original cor.

Set a stainless steel post, 28 ins. long, 2½ ins. diam., 52 ins. in the ground, the top 24 ins. below the ground surface, with brass cap mkd.

S 17	S 16
CC	
T 6 N	R 31 E

2003

from which

A stainless steel post, 28 ins. long, 2½ ins. diam., set 26 ins. in the ground for a reference monument, bears S. 45° 00' 00" E., 37.50 ft. dist., with brass cap mkd. RM T6N R31E CC S16 37.5 FT TO COR 2003 and an arrow pointing to the cor. Reference monument is located in a barbed wire fence extending E. and W. Drove steel fence post alongside.

Corrective Retracement of a Portion of the Oregon-Washington
State Boundary Through Ranges 31 and 32 East, and the
Corrective Retracement of a Portion of the Subdivisional Lines,
T. 6 N., R. 31 E., Willamette Meridian, Oregon

FEET

A stainless steel post, 28 ins. long, 2½ ins. diam., set 25 ins. in the ground for a reference monument, bears S. 45° 00' 00" W., 39.50 ft. dist., with brass cap mkd. RM T6N R31E CC S17 39.5 FT TO COR 2003 and an arrow pointing to the cor. Reference monument is located in a barbed wire fence extending E. and W. Drove steel fence post alongside.

Deposit a magnet in a white plastic case at the base of the stainless steel post corner monument and one on top of the brass cap.

The closing cor. is located N., 28 ft. dist. from a barbed wire fence extending E. and W.

From this closing cor. of secs. 16 and 17, the point erroneously reestablished as the closing cor. of secs. 16 and 17 by William D. Kimmel, Cadastral Surveyor, in 1980-81, bears N. 79° 36' 57" E., 38.93 ft. dist., monumented with an aluminum post, 2½ ins. diam., firmly set 24 ins. below ground, with aluminum cap mkd. S17 S16 T6N R31E CC 1980. The aluminum cap was remarked AM T6N R31E 38.9 FT TO COR 2003 1980, and an arrow pointing to the cor.

Deposit a magnet in a white plastic case on top of the aluminum cap.

The reference monuments set by Kimmel were not recovered. The DEEP-1 magnets set by Kimmel were verified with a magnetic locator and left in place, however their exact position was not determined.

From this same closing cor. of secs. 16 and 17, the initial point (0 mile cor.), on the Oregon-Washington State bdy., bears S. 89° 47' 55" W., 5302.66 ft. dist., hereinbefore described.

From this same closing cor. of secs. 16 and 17, the closing cor. of secs. 15 and 16, on the Oregon-Washington State bdy., bears N. 89° 47' 55" E., 5387.13 ft. dist., hereinbefore described.

These control lines were fully retraced and careful search was made for evidence of intervening cors., none of which were recovered.

From the cor. of secs. 19, 20, 29 and 30, monumented with an aluminum post, 2½ ins. diam., firmly set 20 ins. below ground, with aluminum cap mkd.

Corrective Retracement of a Portion of the Oregon-Washington
State Boundary Through Ranges 31 and 32 East, and the
Corrective Retracement of a Portion of the Subdivisional Lines,
T. 6 N., R. 31 E., Willamette Meridian, Oregon

FEET

T 6 N	R 31 E
S 19	S 20
S 30	S 29

1980

from which accessories set by Kimmel

An aluminum post, 2½ ins. diam., firmly set 12 ins. below ground for a reference monument, bears N. 85° 00' E., 250.14 ft. dist., with aluminum cap mkd. T6N R31E S20 RM 250 FT 1980 and an arrow pointing to the cor.

An aluminum post, 2½ ins. diam., firmly set 8 ins. below ground for a reference monument, bears S. 20° 00' E., 225.00 ft. dist., with aluminum cap mkd. T6N R31E S29 RM 225 FT 1980 and an arrow pointing to the cor. Reference monument has a steel fence post alongside.

The DEEP-1 magnets set by Kimmel were verified with a magnetic locator and left in place, however their exact position was not determined.

From this point, the point for the closing cor. of secs. 17 and 18, at proportionate dist., on the Oregon-Washington State bdy., bears N. 0° 36' 49" W., 7565.45 ft. dist., there is no remaining evidence of the original cor.

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

S 18	S 17
CC	
T 6 N R 31 E	

2003

from which accessories mkd. by Kimmel

The marks X BO, chiseled on a vertical rock face, bears S. 68¾° E., 86.0 ft. dist.

The marks X BO, chiseled on a vertical rock face, bears S. 9¼° E., 109.2 ft. dist.

Corrective Retracement of a Portion of the Oregon-Washington
State Boundary Through Ranges 31 and 32 East, and the
Corrective Retracement of a Portion of the Subdivisional Lines,
T. 6 N., R. 31 E., Willamette Meridian, Oregon

FEET

Deposit a magnet in a white plastic case at the base of the stainless steel post.

From this closing cor. of secs. 17 and 18, the point erroneously reestablished as the closing cor. of secs. 17 and 18 by William D. Kimmel, Cadastral Surveyor, in 1980-81, bears N. 72° 29' 53" E., 2.29 ft. dist., monumented with an aluminum post, 2½ ins. diam., firmly set, projecting 2 ins. above ground, with aluminum cap mkd. S18 S17 T6N R31E CC 1980. The aluminum cap was remarked AM T6N R31E 2.3 FT TO COR 2003 1980, and an arrow pointing to the cor. Amended monument has a steel fence post alongside.

From this same closing cor. of secs. 17 and 18, the initial point (0 mile cor.), on the Oregon-Washington State bdy., bears S. 89° 47' 55" W., 374.80 ft. dist., hereinbefore described.

From this same closing cor. of secs. 17 and 18, the closing cor. of secs. 16 and 17, on the Oregon-Washington State bdy., bears N. 89° 47' 55" E., 4927.86 ft. dist., hereinbefore described.

These control lines were fully retraced and careful search was made for evidence of intervening cors., none of which were recovered.

T. 6 N., Rs. 31 and 32 E., Willamette Meridian, Oregon

FEET

GENERAL DESCRIPTION

The lands included in the foregoing retracement are located along the Oregon-Washington State boundary, approximately 26 miles westerly of Milton-Freewater, Oregon, 22 miles northwesterly of Pendleton, Oregon, and 4 miles southerly of Wallula Junction. The terrain varies from steep vertical rock cliffs near the Columbia River to rolling hills of wheat and sagebrush. The elevation ranges from approximately 300 feet above sea level near the Columbia River to about 1600 feet above sea level on the bench tops.

The lands are used primarily for agriculture and grazing. Vegetation consists of sagebrush, wheat and grass. There is no timber

Access to the area is gained via U.S. Highway No. 12, U.S. Highway No. 730, State Route No. 11 and State Route No. 37, with other paved, gravel and dirt roads branching from them into the area surveyed.

The mean magnetic declination, as obtained from U.S. Geological Survey quadrangle map "JUNIPER CANYON, OREG.-WASH.", 1966 edition with photo revisions in 1978, is 20° East.

3/17/2004

Control Data Sheet

Bureau of Land Management
Oregon State Office
Branch of Geographic Sciences
Cadastral Survey Section

Control Station		NAD 83 (1998) Data	
Station Name:	0 MILE MON.	Adjustment Software:	TRIMBLE GEOMATICS v.1.61
EC Number:		Geoid Computations:	GEOID 96 v.1.00
County:	UMATILLA	Latitude:	46° 00' 1.5024"
State:	OR	Longitude:	118° 58' 34.64597"
BLM District:	VAIL	Ellipsoid Height:	85.55 m
BLM Resource Area:	BAKER	Geoid Separation:	-21.444 m
Location:	T06N, R31E, SEC.18	MSL Elev(NAVD 88):	106.994 m
Meridian:	WILLAMETTE	NAVD88 - NGVD29:	1.008 m
Mapping References		Sigma Values (95%)	
USGS 7 1/2' QUAD: WALLULA		Latitude:	0.005 m
USGS 15' QUAD:		Longitude:	0.006 m
Group Number:	2032	Vertical:	0.007 m
Date Occupied:	5/8/2003	NAD 27 Data	
Method:	GPS, STATIC, CARRIER PHASE	Derivation:	CORPSCON v.5.11
Receiver Type:	TRIMBLE 5700	Latitude:	46° 00' 2.0281"
Baseline Software:	TRIMBLE GEOMATICS v.1.61	Longitude:	118° 58' 30.62781"
Vert Shift Software:	VERTCON v.1.00		

Horizontal Reference Stations Utilized

NGS Order B Stations B 502 and BURDEN.

Description

Monumented with an iron post, 2½ ins. diam., firmly set, flush with the ground, with a brass cap, mkd.

0 M
WASH
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ORE

1980

HOW TO REACH: Corner is located 60 ft. NW. of the center of U.S. Hwy 730 at the Oregon-Washington State Line.

Notes

- Please send updated recovery information to: Branch of Geographic Sciences, Cadastral Survey Section (OR-957.1), Bureau of Land Management, P.O. Box 2965, Portland, Oregon, 97208. (503) 808-6132
- All distances in "HOW TO REACH" description are in miles, unless otherwise noted

The geographic positions (NAD 1983 (98)) of the following corners, as determined by direct GPS occupation, to an accuracy level of 0.050 meters or better, at 95% confidence level, are as follows:

Corner	Latitude	Longitude
Cor. of secs. 19, 20, 29, and 30, Tp. 6 N., R. 31 E.	45° 58' 46.8388" N.	118° 58' 28.1897" W.
Cor. of secs. 20, 21, 28, and 29, Tp. 6 N., R. 31 E.	45° 58' 41.3193" N.	118° 57' 20.1178" W.
Cor. of secs. 21, 22, 27, and 28, Tp. 6 N., R. 31 E.	45° 58' 41.8162" N.	118° 56' 04.9048" W.
7½ mile cor. on the Oregon-Washington State Bdy.	46° 00' 02.9013" N.	118° 49' 03.1992" W.
9 mile cor. on the Oregon-Washington State Bdy.	46° 00' 03.5860" N.	118° 47' 11.1882" W.
9½ mile cor. on the Oregon-Washington State Bdy.	46° 00' 03.9736" N.	118° 46' 32.9707" W.

CERTIFICATE OF SURVEY

I, Bryan S. Seibold, Cadastral Surveyor, HEREBY CERTIFY upon honor, that in pursuance of special instructions bearing date of the 19th day of August, 2002, I have corrected the retracement of a portion of the Oregon-Washington State boundary through ranges 31 and 32 east, and corrected the retracement of a portion of the subdivisional lines, township 6 north, range 31 east, of the Willamette Meridian, in the State of Oregon, which are represented in the foregoing field notes as having been executed by me and under my direction. Said survey has been made in strict conformity with said special instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in specific manner described in the foregoing field notes.

July 21, 2004
(Date)

Bryan S. Seibold
(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT
Portland, Oregon

The foregoing field notes of the corrective retracement of a portion of the Oregon-Washington State boundary through ranges 31 and 32 east, and the corrective retracement of a portion of the subdivisional lines, township 6 north, range 31 east, Willamette Meridian, Oregon, executed by Bryan S. Seibold, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

September 7, 2004
(Date)

Mary J. M. Hattel
(Chief Cadastral Surveyor of Oregon)