# Record of Survey

Being a portion of the Northeast Quarter and Southeast Quarter of Section 14, Township 5 North, Range 4 West, W.M. in Columbia County, Oregon.

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Basis of bearings: N 89°58'00" W between the southeast corner and South 1/4 corner of Section 14, Township 5 North, Range 4 West, W.M. as per Columbia County Survey number CS # 931.

Found corner as noted

Set 3/4" x 30" iron pipe with yellow plastic cap LS 86894

Calculated position

and an amount of the second of

Property line blazed, painted and posted with  $1/2" \times 72"$  fiberglass rods

Bearing or distance as per RS # 1

Reference surveys:

1) H.W. Freed, PE, CS # 931 (1949)

2) C.W. Cook, PLS 1098, CS # 3057 (1978)

3) C.W. Cook, PLS 1098, CS # 3082 (1979)

4) W.E. Schlenker, PLS 1100, CS # 3551 (1987)

# Method of Survey:

GPS observations using Topcon Hiper-RTK receivers and closed loop field traverses using a Topcon GTS-220 (00°00'05") total station.

# Sheet index:

Sheet 1: Survey basis, references, legend, and narrative Sheet 2: Survey of Section 14, monument descriptions

# Narrative:

This survey is a dependent resurvey of Columbia County Survey No. CS # 931 as performed by engineer H.W. Freed in May of 1949. It was the purpose of this survey to recover and confirm or establish the applicable PLSS corners and as many of the applicable property corner pipes established by H.W. Freed and mark the westerly and northerly lines of the metes and bounds tract owned by Weverhaeuser Columbia Timberlands in the southeast and northeast quarters of Section 14, Township 5 North, Range 4 West, W.M., Columbia County, Oregon for timber harvest.

Control for the survey was established using Topcon Hiper-RTK GPS receivers and a series of closed loop field traverses using a Topcon GTS-220 (00°00'05") total station. This survey recovered, confirmed to the applicable records and accepted each of the corners depicted as "found corner as noted". In most instances original monuments were recovered, although in all cases there was some variance to reported courses and distances between monuments.

Using the calculation methods and evidence depicted on page 2, this survey recovered the South 1/4 corner, Southeast corner, East 1/4 corner and Northeast corner of Section 14-T5N-R4W. As depicted, this survey also found multiple 1 ½" stainless steel pipes set at angle points in the surveyed line. Although not expressly stated on CS # 931, these pipes are held to have been set by H.W. Freed in 1949 owing primarily to the relative positional location of each pipe. It is clear that the legal description vesting the subject property was written either by H.W. Freed or, at minimum, using the data presented by him on CS # 931. As such, the found pipes were accepted as original monuments and the minor inconsistencies found between said pipes and the courses in the record description were disregarded. This survey found that only two of the Freed corners were missing (corners 2 and 13 on Page 2) and said corners were reset using the methods detailed in the descriptions for each position.

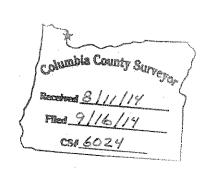
The surveyed property lines were flagged, blazed, painted and posted with  $\frac{1}{2}$ " x 72" fiberglass rods. The typical accessory begring tree established by this survey has a 40d spike in center side and an aluminum tag at head height facing the corner.

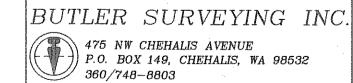
# Record of Survey description:

The westerly and northerly lines of the following described parcel:

A parcel of land located in the east half of Section 14, Township 5 North , Range 4 West, W.M., Columbia County, Oregon, more particularly described as follows, to wit:

Beginning at a point on the section line between Sections 14 and 23, Township 5 North, Range 4 West, at a point which is 2227.0 feet west of the section corner common to Sections 13, 14, 23 and 24 and 684.3 feet east of the guarter section corner common to Sections 14 and 23; thence North 44°56' East for a distance of 443.8 feet; thence North 22°50' East for a distance of 1301.3 feet; thence North 45"34' East for a distance of 469.3 feet; thence South 58°48' East for a distance of 595.5 feet; thence North 54°52' East for a distance of 234.8 feet; thence North 25°35' West for a distance of 241.6 feet; thence North 4°02' East for a distance of 168.3 feet; thence North 58°34' West for a distance of 521.2 feet; thence North 9°43' West for a distance of 386.5 feet; thence North 19°07' West for a distance of 765.9 feet; thence North 73°51' East for a distance of 300.2 feet; thence South 78°45' East for a distance of 1045.5 feet; thence South for a distance of 678.7 feet to the quarter corner common to Sections 13 and 14; thence South 1°56' West along the section line between 13 and 14 for a distance of 2634.1 feet to the section corner common to Sections 13, 14, 23 and 24; thence West 2227.0 to the point of beginning.





Drawn C. Butler/SS | Date 9-10-14 Checked CS Job No. 13-147

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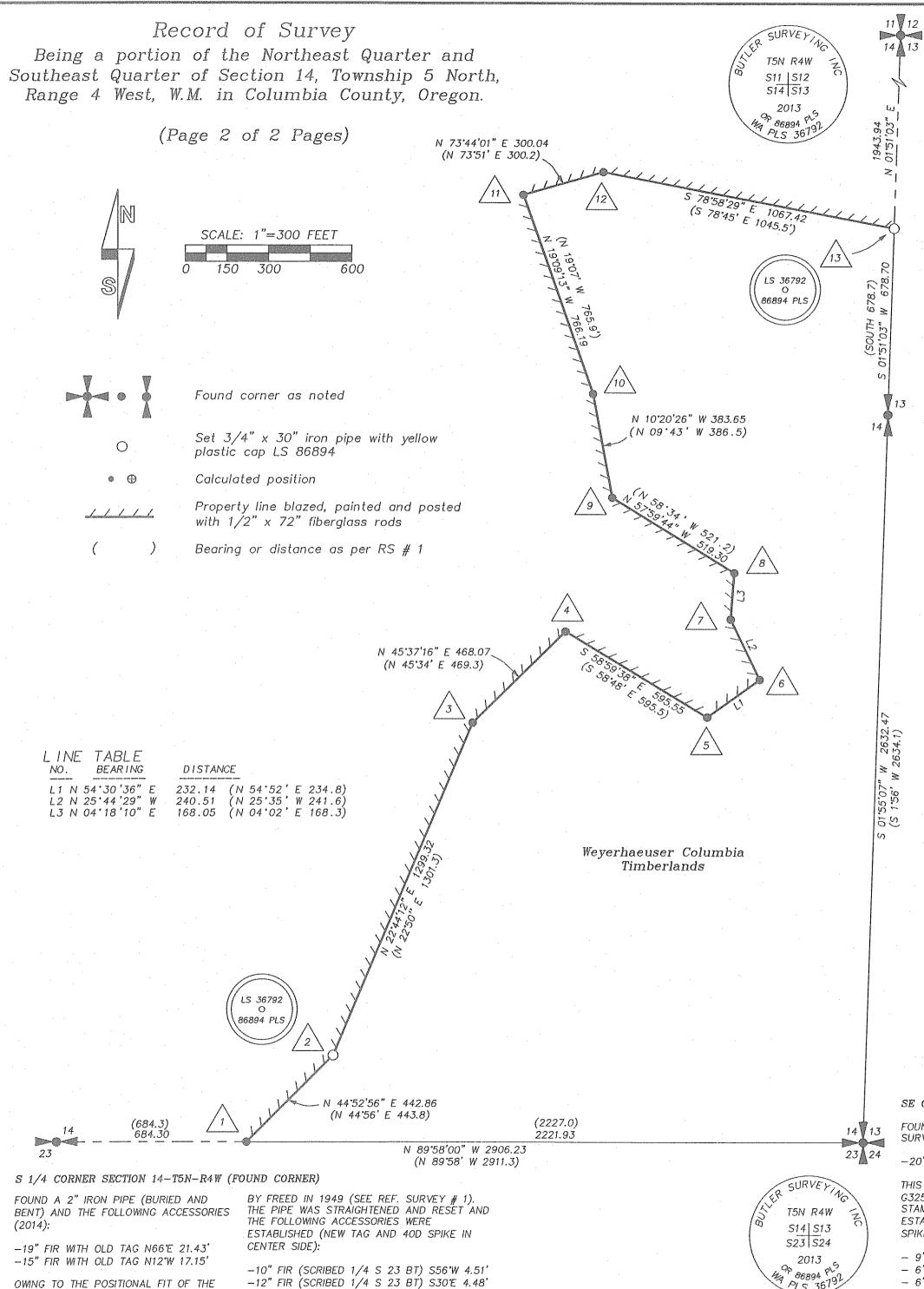
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REGISTERED PROFESSIONAL LAND SURVEYOR 7 0 2

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OREGON NOVEMBER 13, 2012 CHRISTOPHER M. BUTLER 86894PLS

EXPIRES: 12-51-15



NE CORNER SECTION 14-T5N-R4W (FOUND CORNER)

FOUND AND ACCEPTED A 1 1/2" STAINLESS STEEL PIPE IN A NEWER CLEARCUT AS PER REFERENCE SURVEYS # 2. 3, AND 4 (2013)

FOUND THE FOLLOWING ACCESSORIES:

- 70" CEDAR STUMP WITH TAG N77°E 28.45' - T-POST WITH TAG NORTH 1.0'

THIS SURVEY REPLACED THE 1 1/2" IRON PIPE WITH A BERNSTEN G3250 (1" x 30") ALUMINUM PIPE WITH 2 1/2" ALUMINUM CAP STAMPED PER THE BLM MANUAL IN MOUND OF STONES AND ESTABLISHED THE FOLLOWING ACCESSORY (40D SPIKE AND NEW TAG) (2013):

- 53" CEDAR STUMP S83"W 23.66' TO 40D SPIKE IN - NO OTHER ACCEPTABLE ACCESSORIES ARE AVAILABLE WITHIN LIMITS.

E 1/4 CORNER SECTION 14-T5N-R4W (FOUND CORNER)

FOUND AND ACCEPTED A 1 1/2" IRON PIPE AND THE FOLLOWING ACCESSORIES (2013):

- 19" FIR STUMP WITH HEALED FACE AND 40D SPIKE N50°E 10.50'
- 16" FIR STUMP WITH HEALED FACE AND 40D SPIKE S20°W 9.21'
- T-POST WITH TAG S 66'W 1.0'

OWING TO THE POSITIONAL FIT OF THE PIPE RELATIVE TO OTHER FOUND MONUMENTS THIS SURVEY ACCEPTS THE PIPE TO BE THE POSITION PERPETUATED BY FREED IN 1949 (SEE REF. SURVEY # 1).

THIS SURVEY ESTABLISHED THE FOLLOWING ACCESSORY (NEW TAG AND 40D SPIKE IN CENTER SIDE) (2013):

- 6" FIR (SCRIBED X BT) N45"W 12.88" - NO OTHER ACCESSORY AVAILABLE WITHIN LIMITS

SE CORNER SECTION 14-T5N-R4W (FOUND CORNER)

FOUND AND ACCEPTED 1 1/2" IRON PIPE AS PER REFERENCE SURVEYS # 1, 2 AND 3 AND THE FOLLOWING ACCESSORY:

-20" FIR STUMP WITH SPIKE AND OVERGROWN TAG N83"W 12.14'

THIS SURVEY REPLACED THE 1 1/2" IRON PIPE WITH A BERNSTEN G3250 (1" x 30") ALUMINUM PIPE WITH 2 1/2" ALUMINUM CAP STAMPED PER THE BLM MANUAL AND SET IN MOUND OF STONES. ESTABLISHED THE FOLLOWING ACCESSORIES (NEW TAG AND 40D SPIKE IN CENTER SIDE) (2013):

- 9" FIR (SCRIBED X BT) N34E 19.41'
- 6" FIR (SCRIBED X BT) S73"E 10.10'
- 6" FIR (SCRIBED X BT) S18°W 8.93' - T-POST NORTH 1.0'

Found and/or set property corner and new accessories

FOUND AND ACCEPTED A 1 1/2" STAINLESS STEEL PIPE WITH 1' VISIBLE ON EAST SIDE OF HIGHWAY 47 BEARING SO4'23'E 0.11' FROM THE POSITION CALCULATED AS PER REFERENCE SURVEY # 1 (2013).



SET 3/4" IRON PIPE WITH CAP LS 86894 AT POSITION CALCULATED BY COMPASS RULE ADJUSTMENT OF RECORD COURSES BETWEEN FOUND PIPES 1 AND 3 AND ESTABLISHED THE FOLLOWING ACCESSORY (2013):

- 14" ALDER N35E 11.25 TO 40D SPIKE IN CENTER SIDE (CORNER FALLS IN STEEP CUT BANK, NO OTHER RP'S AVAILABLE)

FOUND AND ACCEPTED A 1 1/2" STAINLESS STEEL PIPE WITH 0.9" VISIBLE AND ESTABLISHED THE FOLLOWING ACCESSORIES (2013):

- 8" FIR S51'E 24.08' TO 40D SPIKE IN CENTER SIDE - 48" CEDAR STUMP SO2'W 17.65' TO 40D SPIKE IN CENTER SIDE

FOUND AND ACCEPTED A 1 1/2" STAINLESS STEEL PIPE WITH 1'

VISIBLE AND ESTABLISHED THE FOLLOWING ACCESSORIES (2013):

- 10" CEDAR SO2'W 8.80' TO 40D SPIKE IN CENTER SIDE - 16" FIR S54"E 15.54' TO 40D SPIKE IN CENTER SIDE

FOUND AND ACCEPTED A 1 1/2" STAINLESS STEEL PIPE WITH 0.8' VISIBLE AND ESTABLISHED THE FOLLOWING ACCESSORIES (2013):

- 12" FIR S39"W 9.92' TO 40D SPIKE IN CENTER SIDE - 10" FIR S30'E 11.63' TO 40D SPIKE IN CENTER SIDE

FOUND AND ACCEPTED A 1 1/2" STAINLESS STEEL PIPE WITH 1.1' VISIBLE AND ESTABLISHED THE FOLLOWING ACCESSORIES (2013):

- 18" ALDER N60'E 6.41' TO 40D SPIKE IN CENTER SIDE - 12" ALDER S17"W 10.61' TO 40D SPIKE IN CENTER SIDE

FOUND AND ACCEPTED A 1 1/2" STAINLESS STEEL PIPE WITH 1.0" VISIBLE AND ESTABLISHED THE FOLLOWING ACCESSORIES (2013):

- 8" FIR S64"E 21.00' TO 40D SPIKE IN CENTER SIDE

- 8" FIR N30"E 8.72' TO 40D SPIKE IN CENTER SIDE

FOUND AND ACCEPTED A 1 1/2" STAINLESS STEEL PIPE WITH 0.9" VISIBLE AND ESTABLISHED THE FOLLOWING ACCESSORIES (2013):

- 8" FIR N65'E 5.25' TO 40D SPIKE IN CENTER SIDE

- 10" FIR N44'W 7.69' TO 40D SPIKE IN CENTER SIDE

FOUND AND ACCEPTED A 1 1/2" STAINLESS STEEL PIPE WITH 1.0' VISIBLE AND ESTABLISHED THE FOLLOWING ACCESSORIES (2013):

> - 14" FIR N53"E 15.65' TO 40D SPIKE IN CENTER SIDE - 12" FIR S 65'E 24.33' TO 40D SPIKE IN CENTER SIDE

FOUND AND ACCEPTED A 1 1/2" STAINLESS STEEL PIPE WITH 1.2' VISIBLE AND ESTABLISHED THE FOLLOWING ACCESSORIES (2013):

- 8" FIR S68'E 6.74' TO 40D SPIKE IN CENTER SIDE - 13" FIR N33'E 10.36' TO 40D SPIKE IN CENTER SIDE

FOUND AND ACCEPTED A 1 1/2" STAINLESS STEEL PIPE WITH 1.0' VISIBLE AND ESTABLISHED THE FOLLOWING ACCESSORIES (2013):

- 12" FIR S48'E 5.33' TO A 40D SPIKE IN CENTER SIDE

- 10" CEDAR N72'E 8.64' TO A 40D SPIKE IN CENTER SIDE

FOUND AND ACCEPTED A 1 1/2" STAINLESS STEEL PIPE WITH 1.0' VISIBLE AND ESTABLISHED THE FOLLOWING ACCESSORIES (2013):

- 24" ALDER S88'E 13.65' TO A 40D SPIKE IN CENTER SIDE - NO OTHER ACCEPTABLE ACCESSORY WAS FOUND WITHIN LIMITS

SET 3/4" IRON PIPE WITH CAP LS 86894 HOLDING THE RECORD DISTANCE OF 678.7 FEET NORTH OF THE EAST 1/4 CORNER OF SECTION 14 AND ESTABLISHED THE FOLLOWING ACCESSORIES (2013):

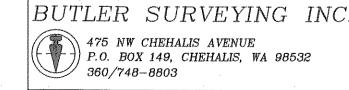
- 4" FIR S52'W 8.33' TO A 40D SPIKE IN CENTER SIDE - 6" FIR S36"E 11.18' TO A 40D SPIKE IN CENTER SIDE

\* THIS SURVEY TAKES THE POSITION THAT THE 1 1/2" STAINLESS STEEL PIPES RECOVERED ALONG THE SUBJECT BOUNDARY ARE THE SAME MONUMENTS SET BY H.W. FREED IN 1949.

\* IN ADDITION TO THE 40D SPIKE IN CENTER SIDE EACH NEW ACCESSORY HAS AN ALUMINUM TAG FACING THE CORNER.

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\* A 6 FOOT T-POST WAS SET ± 1' FROM EACH FOUND OR SET



Drawn C. Butler/SS Date 9-10-14 Checked 😘 Job No. 13-147

none

LAND SURVEYOR OREGON NOVEMBER 13, 2012 CHRISTOPHER M. BUTLER 86894PLS

REGISTERED PROFESSIONAL

EXPIRES: 12-31-15

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PIPE RELATIVE TO OTHER FOUND

MONUMENTS THIS SURVEY ACCEPTS THE

PIPE TO BE THE POSITION PERPETUATED