

**SURVEY FOR
UMATILLA NATIONAL FOREST
OF
THE TOWNSHIP LINE
BETWEEN
TOWNSHIPS 6 AND 7 SOUTH,
RANGE 34 EAST,
WILLAMETTE MERIDIAN
GRANT & UMATILLA COUNTIES, OREGON
SEPTEMBER, 1997**

NARRATIVE:

PURPOSE:
THE PURPOSE OF THIS SURVEY WAS TO PROVIDE GPS CONTROL ON THE TOWNSHIP LINE BETWEEN TOWNSHIPS 6 AND 7 SOUTH, RANGE 34 EAST., W.M.

HISTORY:
1883, FRANK W. CAMPBELL, U.S. DEPUTY SURVEYOR, SURVEYED THE TOWNSHIP LINE BETWEEN TOWNSHIPS 6 AND 7 SOUTH, RANGE 34 EAST UNDER GENERAL LAND OFFICE CONTRACT NUMBER 468.

1986, CLAYTON J. MARTIN, REGISTERED LAND SURVEYOR NO. 1910, SURVEYED SECTION 2, T. 7 S., R. 34 E. (GRANT COUNTY MAP SURVEY NO. 909).

1993, DENNIS L. GAYLORD, REGISTERED LAND SURVEYOR NO. 1636, REMONUMENTED THE 1/4 CORNER OF SECTION 31, T. 6 S., R. 34 E., & SECTION 6, T. 7 S., R. 34 E., FROM ORIGINAL EVIDENCE.

1993, DAVID A. SCHLAICH, REGISTERED LAND SURVEYOR NO. 2308, PERFORMED THE NORTH FORK JOHN DAY GPS CONTROL SURVEY WHICH ESTABLISHED GEODETIC CONTROL FOR THIS SURVEY (UMATILLA COUNTY SURVEY NO. 94-007-B; GRANT COUNTY MAP OF SURVEY NO. 1310).

1994, DENNIS L. GAYLORD, REGISTERED LAND SURVEYOR NO. 1636, REMONUMENTED THE 1/4 CORNER OF SECTION 32, T. 6 S., R. 34 E., AND SECTION 5, T. 7 S., T. 34 E., AND THE CORNER OF SECTIONS 33 & 34, T. 6 S., R. 34 E., & SECTIONS 3 & 4, T. 7 S., R. 34 E., FROM ORIGINAL EVIDENCE.

PROCEDURES:
THIS GPS SURVEY WAS CONDUCTED USING FEDERAL GEODETIC CONTROL COMMITTEE (FGCC) ORDER C, SECOND ORDER, CLASS 1 GPS SURVEY SPECIFICATIONS. ALL COORDINATES PROVIDED ARE NAD83(1991) VALUES BASED ON THE OREGON HIGH PRECISION GPS CONTROL NETWORK.

THE EQUIPMENT USED WAS 3 TRIMBLE 4000SSE, DUAL FREQUENCY, RECEIVERS WITH EXTERNAL L1 & L2 GEODETIC ANTENNAS, NIKON TRIBRACHS AND STANDARD SURVEY TRIPODS. WILD'S HEIGHT HOOK SYSTEM WAS USED TO MEASURE ANTENNA HEIGHTS.

FAST STATIC CARRIER PHASE MEASUREMENTS AND DATA PROCESSING WAS USED ON ALL BASELINE MEASUREMENTS. THE BASELINE MEASUREMENTS WERE EVALUATED BY EXAMINATION OF STATISTICAL QUALITY INDICATORS AND LOOP CLOSURE ANALYSIS. THE BASELINE MEASUREMENTS WERE THEN ADJUSTED BY LEAST SQUARES USING EXISTING GPS POINTS 200200 (9303), 9304, 500200 (9305) AND 500700 (9307) AS FIXED CONTROL. THESE CONTROL POINTS ALSO PROVIDE THE SURVEY'S BASIS OF BEARING.

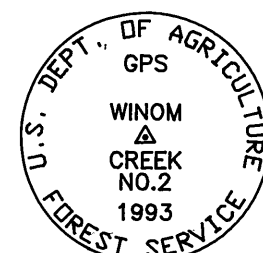
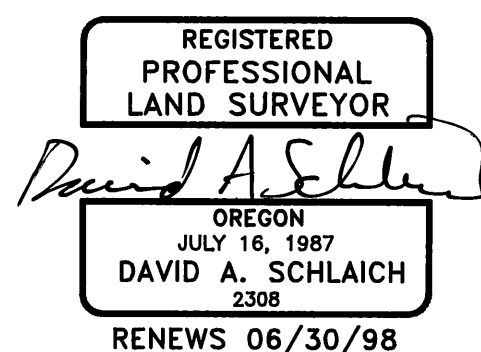
BEARING TREES AND CORNER REFERENCES WERE TIED USING A WARREN-KNIGHT SURVEYOR'S COMPASS (MAGNETIC DECLINATION 19° EAST). DISTANCE MEASUREMENTS TO THE BEARING TREES WERE TAKEN AT SIDE CENTER ONE FOOT ABOVE THE ROOT CROWN AND TREE DIAMETER'S WERE MEASURED AT BREAST HEIGHT.

FIELD BOOKS ARE ON FILE AT THE SUPERVISOR'S OFFICE OF THE UMATILLA NATIONAL FOREST LOCATED AT PENDLETON, OREGON.

9304
WINOM CREEK NO. 2 1993, (T. 6 S., R. 34 E., SECTION 33)

FOUND A 3 1/4" ALUMINUM CAP SET FLUSH WITH THE GROUND, MARKED AS SHOWN, FROM WHICH:

A METAL POST WITH LAND SURVEY MONUMENT SIGN, SOUTH, 4.0 FEET.



140700
1/4 CORNER OF SECTION 31, T. 6 S., R. 34 E. & SECTION 6, T. 7 S., R. 34 E.

FOUND A 2 1/2" ALUMINUM PIPE, WITH A 3 1/4" ALUMINUM CAP, PROJECTING 2" OUT OF THE GROUND, MARKED AS SHOWN, FROM WHICH:

28" DEAD DOUGLAS FIR, N 40° E, 28.4 FEET, WITH HEALED DOUBLE BLAZE (ORIGINAL BT).
16" DEAD WHITE FIR, S 53 1/2° E, 57.1 FEET, WITH BURNT OUT DOUBLE BLAZE AND 3/4" BRASS WASHER STAMPED "PLS 1636" NAILED TO THE LOWER BLAZE.
29" DEAD DOUGLAS FIR, S 56 1/2° W, 48.5 FEET, WITH BURNT OUT DOUBLE BLAZE AND 3/4" BRASS WASHER STAMPED "PLS 1636" NAILED TO THE LOWER BLAZE.
16" DEAD WHITE FIR, N 16 1/2° W, 27.5 FEET, WITH BURNT OUT DOUBLE BLAZE AND 3/4" BRASS WASHER STAMPED "PLS 1636" NAILED TO THE LOWER BLAZE.
NEW REFERENCES:
RM, 5/8" BY 24" REBAR WITH YELLOW PLASTIC CAP MARKED "UMATILLA N.F.", SET 23" IN THE GROUND, N 43° E, 20.03 FEET.
RM, 5/8" BY 24" REBAR WITH RED PLASTIC CAP MARKED "UMATILLA N.F.", SET 23" IN THE GROUND, S 45° E, 15.43 FEET.
RM, 5/8" BY 24" REBAR WITH RED PLASTIC CAP MARKED "UMATILLA N.F.", SET 23" IN THE GROUND, S 42 1/2° W, 28.90 FEET.
RM, 5/8" BY 24" REBAR WITH YELLOW PLASTIC CAP MARKED "UMATILLA N.F.", SET 23" IN THE GROUND, N 47 1/2° W, 11.96 FEET.

200200 (9303)
CORNER OF SECTIONS 29, 30, 31 & 32, T. 6 S., R. 34 E.

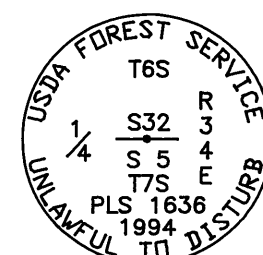
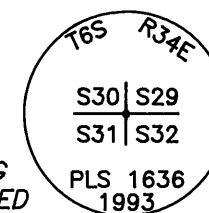
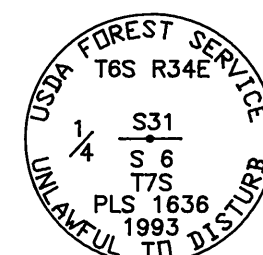
FOUND A 2 1/2" ALUMINUM CAP, SET FLUSH WITH THE GROUND, MARKED AS SHOWN, FROM WHICH:

9" DEAD LODGEPOLE PINE, N 20 1/2° E, 83.7 FT., WITH SCRIBING VISIBLE ON BURNT DOUBLE BLAZE & 3/4" BRASS WASHER STAMPED "PLS 1636" NAILED TO THE LOWER BLAZE.
7" DEAD LODGEPOLE PINE, S 31° E, 43.1 FEET, WITH SCRIBING VISIBLE ON BURNT DOUBLE BLAZE & 3/4" BRASS WASHER STAMPED "PLS 1636" NAILED TO THE LOWER BLAZE.
8" DEAD LODGEPOLE PINE, S 84 1/2° W, 58.4 FEET, WITH SCRIBING VISIBLE ON BURNT DOUBLE BLAZE & 3/4" BRASS WASHER STAMPED "PLS 1636" NAILED TO THE LOWER BLAZE.
8" DEAD LODGEPOLE PINE, N 44° W, 76.3 FEET, WITH SCRIBING VISIBLE ON BURNT DOUBLE BLAZE & 3/4" BRASS WASHER STAMPED "PLS 1636" NAILED TO THE LOWER BLAZE.
NEW REFERENCES:
RM, 5/8" BY 24" REBAR WITH YELLOW PLASTIC CAP MARKED "UMATILLA N.F.", SET 16" IN THE GROUND, N 45° E, 33.93 FEET.
RM, 5/8" BY 24" REBAR WITH RED PLASTIC CAP MARKED "UMATILLA N.F.", SET 16" IN THE GROUND, S 44° E, 22.04 FEET.
RM, 5/8" BY 24" REBAR WITH RED PLASTIC CAP MARKED "UMATILLA N.F.", SET 17" IN THE GROUND, S 44 1/2° W, 20.74 FEET.
RM, 5/8" BY 24" REBAR WITH YELLOW PLASTIC CAP MARKED "UMATILLA N.F.", SET 15" IN THE GROUND, N 41 1/2° W, 31.16 FEET.

240700
1/4 CORNER OF SECTION 32, T. 6 S., R. 34 E. AND SECTION 5, T. 7 S., R. 34 E.

FOUND A 2 1/2" ALUMINUM PIPE, WITH A 3 1/4" ALUMINUM CAP, PROJECTING 5" OUT OF THE GROUND SURROUNDED BY A SMALL STONE MOUND, MARKED AS SHOWN, FROM WHICH:

15" WESTERN LARCH, N 24° E, 45.3 FEET, WITH SCRIBING VISIBLE ON DOUBLE BLAZE AND 3/4" BRASS WASHER STAMPED "PLS 1636" NAILED TO THE LOWER BLAZE.
14" WESTERN LARCH, N 45° E, 9.2 FEET, WITH SCRIBING VISIBLE ON CHOPPED OPEN BLAZE (ORIGINAL BT).
10" WESTERN LARCH, S 62° E, 23.1 FEET, WITH SCRIBING VISIBLE ON DOUBLE BLAZE AND 3/4" BRASS WASHER STAMPED "PLS 1636" NAILED TO LOWER BLAZE.
24" WHITE FIR, S 20 1/2° W, 53.9 FEET, WITH SCRIBING VISIBLE ON DOUBLE BLAZE AND 3/4" BRASS WASHER STAMPED "PLS 1636" NAILED TO LOWER BLAZE.
14" WESTERN LARCH, N 27 1/4° W, 28.9 FEET, WITH SCRIBING VISIBLE ON DOUBLE BLAZE AND 3/4" BRASS WASHER STAMPED "PLS 1636" NAILED TO LOWER BLAZE.



400700
CORNER OF SECTIONS 33 & 34, T. 6 S., R. 34 E. AND SECTIONS 3 & 4, T. 7 S., R. 34 E.

FOUND A 2 1/2" ALUMINUM PIPE, WITH A 3 1/4" ALUMINUM CAP, PROJECTING 4" OUT OF THE GROUND, MARKED AS SHOWN, FROM WHICH:

9" WESTERN LARCH, N 53 1/2° E, 46.4 FEET, WITH SCRIBING VISIBLE ON DOUBLE BLAZE AND 3/4" BRASS WASHER STAMPED "PLS 1636" NAILED TO THE LOWER BLAZE.
11" WESTERN LARCH, S 89° E, 47.7 FT., WITH SCRIBING VISIBLE ON DOUBLE BLAZE AND 3/4" BRASS WASHER STAMPED "PLS 1636" NAILED TO THE LOWER BLAZE.
31" WHITE FIR, S 63° W, 13.2 FEET (ORIGINAL BT).
7" LODGEPOLE PINE, N 53° W, 35.0 FEET, WITH SCRIBING VISIBLE ON DOUBLE BLAZE AND 3/4" BRASS WASHER STAMPED "PLS 1636" NAILED TO LOWER BLAZE.
33" WHITE FIR, N 35 1/2° W, 19.1 FEET, WITH SCRIBING VISIBLE ON CHOPPED BLAZE (ORIGINAL BT).

500200 (9305)
CORNER OF SECTIONS 26, 27, 34 & 35, T. 6 S., R. 34 E.

FOUND A 2 1/2" ALUMINUM PIPE, WITH A 2 1/2" ALUMINUM CAP, PROJECTING 4" OUT OF THE GROUND SURROUNDED BY A SMALL RING OF STONE, MARKED AS SHOWN, FROM WHICH:

ROOT HOLE OF DOWNED 7" LODGEPOLE PINE SNAG, N 34° E, 9.9 FEET, WITH SCRIBING VISIBLE (ORIGINAL BT).
10" WESTERN LARCH, N 85 1/2° E, 44.8 FEET, WITH SCRIBING VISIBLE ON DOUBLE BLAZE & 3/4" BRASS WASHER STAMPED "PLS 1636" NAILED TO THE LOWER BLAZE.
ROOT HOLE OF DOWN AND DECAYED LODGEPOLE PINE, S 44° E, 23.8 FEET, WITH SCRIBING VISIBLE (ORIGINAL BT).
13" WESTERN LARCH, S 74° E, 25.5 FEET, WITH SCRIBING VISIBLE ON DOUBLE BLAZE & 3/4" BRASS WASHER STAMPED "PLS 1636" NAILED TO THE LOWER BLAZE.
ROOT HOLE OF DOWNED 7" LODGEPOLE PINE, S 58° W, 17.8 FEET, WITH SCRIBING VISIBLE (ORIGINAL BT).
16" WESTERN LARCH, S 43 1/4° W, 60.1 FEET, WITH SCRIBING VISIBLE ON DOUBLE BLAZE & 3/4" BRASS WASHER STAMPED "PLS 1636" NAILED TO THE LOWER BLAZE.
8" LODGEPOLE PINE SNAG, N 69° W, 17.2 FT., WITH SCRIBING VISIBLE (ORIGINAL BT).
11" WESTERN LARCH, N 18 1/2° W, 28.1 FEET, WITH SCRIBING VISIBLE ON DOUBLE BLAZE & 3/4" BRASS WASHER STAMPED "PLS 1636" NAILED TO THE LOWER BLAZE.

500700 (9307)
CORNER OF SECTIONS 34 & 35, T. 6 S., R. 34 E., AND SECTIONS 2 & 3, T. 7 S., R. 34 E.

FOUND A 2 1/2" ALUMINUM PIPE, WITH A 2 1/2" ALUMINUM CAP, PROJECTING 24" OUT OF THE GROUND SURROUNDED BY A STONE MOUND 3 1/2' IN DIAMETER BY 19" HIGH, MARKED AS SHOWN, FROM WHICH:

8" PONDERSOA PINE, N 33° E, 17.1 FEET, WITH SCRIBING VISIBLE ON PARTIALLY HEALED BLAZE AND 3/4" BRASS WASHER STAMPED "RPLS 1910" NAILED TO THE LOWER PART OF THE BLAZE.
STONE MOUND, 2 1/2' IN DIAMETER BY 16" HIGH, N 80 1/4° E, 71.5 FEET.
29" PONDERSOA PINE SNAG, N 83 1/2° E, 107.3 FEET, WITH SCRIBING VISIBLE ON PARTIALLY HEALED DOUBLE BLAZE (ORIGINAL BT).
10" DOUGLAS FIR, S 89° E, 73.7 FEET, WITH SCRIBING VISIBLE ON PARTIALLY HEALED BLAZE AND A 3/4" BRASS WASHER STAMPED "RPLS 1910" NAILED TO THE LOWER PART OF THE BLAZE.
38" PONDERSOA PINE, S 63° W, 103.6 FEET, WITH SCRIBING VISIBLE ON PARTIALLY CUT OPEN BLAZE (ORIGINAL BT).
24" DOWNED PONDERSOA PINE SNAG, N 65° W, 124.7 FEET, WITH SCRIBING VISIBLE ON UPPER BLAZE (ORIGINAL BT).
11" DOUGLAS FIR, N 43° W, 65.7 FEET, WITH SCRIBING VISIBLE ON PARTIALLY HEALED BLAZE AND 3/4" BRASS WASHER STAMPED "RPLS 1910" NAILED TO THE LOWER PART OF THE BLAZE.

