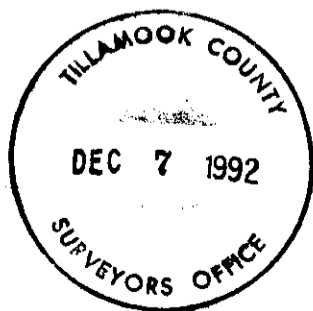


STANDARD QUARTER SECTION CORNER TO SECTION 31, TOWNSHIP 4 NORTH,
RANGE 10 WEST, WILLAMETTE MERIDIAN.

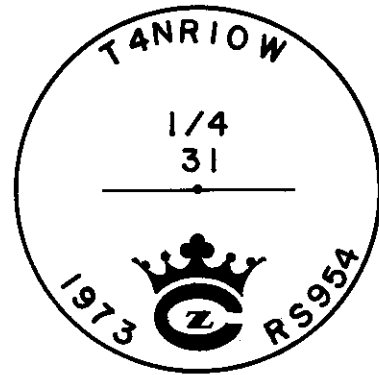
HISTORY:

- Record No. 1 April 16, 1892 - Manius Buchanan, GLO Deputy Surveyor; Established, set a post for corner from which:
A 12" Hemlock bears N22°W, 47 lks. (31.02').
A 10" Hemlock bears S44°E, 21 lks. (13.86').
- Record No. 2 April 20, 1910 - Gelo F. Parker, County Surveyor; "on the South boundary of Sec. 31 T.4N. R10W. I found the 1/4 Sec. cor in good condition, and from it run East 481.8' to the South end of Co. Road No. 137." (Bearing Tree Book page 85, Clatsop County Survey Records.)
- Record No. 3 July, 1945 - J.H. Scott, Resident Engineer for the Oregon Highway Department; "1/4 Sec Cor. Found B.T. [From P.I. Station 432+37.85] N31°21'-3/4'E 369.9'." (Oregon Highway Department drawing of Manzanita Jct. - Arch Cape Section, Drawing No. 6B-26-7, Clatsop County Survey Records.)
- Record No. 4 February 20, 1956 - Mulligan and Merila, Crown Zellerbach survey crew; "Set post for cor. Found 30" Hem. snag scribed "BT"." (Bearing Tree Book page 241-14, Clatsop County Survey Records.)
- Record No. 5 December 2, 1958 - Painter and Wallace, Crown Zellerbach survey crew; "start at 1/4 cor S1/4 cor. Sec. 31 T4NR10W FD. I.P. & POST B.T'S." (Crown Zellerbach Field Book FB-381, page 3, Clatsop County Survey Records.)
- Record No. 6 July 22, 1964 - W.A. Markham, Oregon Engineer No. 1842; "No trace to be found of the stake [Buchanan's post], or of the BT to Northwest. The BT to the Southeast is a dead stub, very rotten, but the iron marks plain to be seen. On July 22, 1964, I re stored this corner by measuring the stated bearing and distance from the remaining original bearing tree, and placing a hexagonal steel drill rod 1" x 5 feet, 3 feet in the ground, and making new bearing trees:
Hemlock 10" diameter N36°W, 52.0 feet, scribed '1/4 S31 1842 BT'
Hemlock 15" diameter S22°W, 29.7 feet, scribed '1/4 S31 1842 BT.'" (Bearing Tree Book page 271-1, Clatsop County Survey Records.)
- Record No. 7 1973 - Robert A. Hovden, Oregon Land Surveyor No. 954; "⊙ = Corner Found & Restored." (County Survey No. 5193, Clatsop County Survey Records.)
- Record No. 8 June 30, 1982 - John E. Hollingsworth, Oregon Land Surveyor No. 691; "State Parks Crew Found: 2-1/2" iron pipe set by Crown Zellerbach with 3" cap marked T4N R10W 1/4 31 1973 RS954' 4" X 4" white post 3.0' high, 1.5' east of iron pipe
18" hemlock S20°W, 29.4' to center with scar painted over with flourescent red paint (did not chop out).
26" hemlock, rotted stump, S48°E, 16.0' to center, with old scar and red flourescent paint. Trace of scribe visible.
State Parks Crew Set: Galvanized steel post with paddle marked 'OREGON STATE PARK BOUNDARY DO NOT DISTURB' 2.0' NW of iron pipe." (County Survey No. A-7491, Clatsop County Survey Records.)



EVIDENCE - MONUMENTATION:

On November 24, 1992, we found a 2" X 26-3/8" galvanized iron pipe with a 3" brass cap stamped:
Top 12" above the ground surface. We pulled this pipe and found a 1" hexagonal iron rod extending 29-1/2" below the bottom of the 2" pipe.

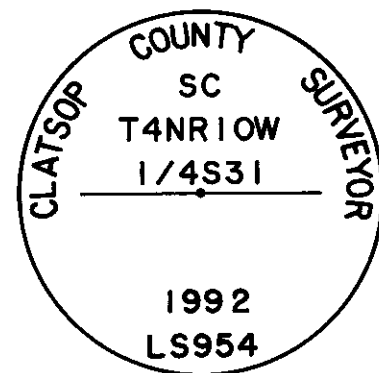


It is apparent that when I restored this corner in 1973, I accepted Markham's 1" hexagonal rod as the corner. Markham stated "No trace to be found of the stake, or of the BT to Northwest. ... restored corner by measuring the stated bearing and distance from the remaining original bearing tree."

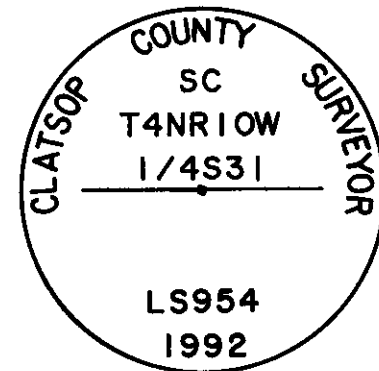
We found the remains of the original Southeast bearing tree, but the bearing and distance from the brass capped monument does not correspond with the original calls. We searched for the original Northwest bearing tree and found a stump with a rotted out face and axe work visible. I believe this to be the remains of the original Northwest bearing tree. I am at a loss as to why Markham could find no trace of this bearing tree, although a Spruce tree is growing on its Southeast side. The bearing and distance to this stump from the brass capped monument does not correspond with the original calls.

We tied the faces of the found original bearing trees and computed the inverse between them to be S27°50'08"E, a distance of 44.17 feet. The record inverse is S28°44'58"E, a distance of 44.18 feet. Therefore I rotated the original GLO bearings clockwise 00°54'50" and applied a scale factor of 0.99977 ($44.17 \div 44.18$) to the original distances and computed the true position for this corner.

At the true corner position we set a 1-1/2" X 30" galvanized iron pipe with a 2" brass cap stamped:



Top 42" below the ground surface for a subsurface monument. We placed 12" of dirt over the cap. Over this we placed a 2" X 30" aluminum Berntsen A-1 standard monument, with a 3-1/4" aluminum cap stamped:



Top flush with the ground surface, top 12" of pipe encased in about 1 cubic foot of concrete.

FROM WHICH:

Set a 6 foot white Carsonite witness post 2 feet North.

Found a 4" X 4" X 5' white painted, cedar post standing 1.5 feet Easterly of the brass capped monument. Pulled said post and left laying nearby.

Steel post and paddle set by State Parks crew is now missing.

The Corner set by W.A. Markham and remonumented by myself in 1973 bears N75°29'W, a distance of 1.25 feet. We lowered this brass capped monument so that the top is 7" below the ground surface.

Original bearing trees are as follows:

The 12" Hemlock N22°W, 31.02'; now a 24" stump, 4' high, bears N21°05'10"W, a distance of 31.01 feet to the center of the face, mostly rotted away with axe work visible.

The 10" Hemlock S44°E, 13.86'; Now a 21" Hemlock snag, 6' high, bears S43°05'10"E, a distance of 13.86 feet to the center of the face, mostly rotted away with axe work visible.

W.A. Markham's 1964 witness trees (See Record No. 6) are as follows:

The 12" Hemlock S22°W, 29.7'; now a 27" pistol butt Hemlock bears S23°12'W, a distance of 28.71 feet to a partly grown over face, scribing visible.

The 10" Hemlock N36°W, 52.0'; now a 20" Hemlock bears N36°25'W, a distance of 52.48 feet to a partly grown over face, scribing visible.

Set 4 new witnesses as follows:

A 15" Hemlock bears N65°24'04"E, a distance of 16.35 feet to a 3/4" brass disc stamped "LS954" nailed to a blazed face scribed "SC1/4S31BT".

A 39" Hemlock bears S13°59'46"E, a distance of 26.67 feet to a 3/4" brass disc stamped "LS954" nailed to a blazed face on the root scribed "S6BT".

A 7" Hemlock bears N61°10'35"W, a distance of 35.56 feet to a 3/4" brass disc stamped "LS954" nailed to a blazed face scribed "SC1/4S31BT".

A 16" Spruce bears N19°43'54"W, a distance of 29.32 feet to a 3/4" brass disc stamped "LS954" nailed to a blazed face scribed "SC1/4S31BT". Said witness is growing on the Southeast side of the GLO Northwest witness tree.

Nailed 4" X 7" yellow aluminum "BEARING TREE" signs on the 4 new witness trees.

Bearings based on solar observation taken November 11, 1992 at Latitude 45°47'00" North, Longitude 123°57'19" West.

Present: Robert A. Hovden, PLS 954, Clatsop County Surveyor.
Steven D. Thornton, PLS 2014, County Survey Technician.
Jerry W. Carter, County Survey Technician.
Lyle G. Rake, County Engineering Technician.
Terry L. Hendryx, County Engineering Technician.

County Surveyor Field Book 37, page 55, Clatsop County Survey Records.

Surveyed for Clatsop County
by: Robert A. Hovden, PLS 954
Clatsop County Surveyor
1100 Olney Avenue
Astoria, Oregon, 97103

REGISTERED
PROFESSIONAL
LAND SURVEYOR

Robert A. Hovden

OREGON
JULY 16, 1871
ROBERT A. HOVDEN
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