

CADASTRAL RE-SURVEY IN SECTIONS 26 AND 36,  
TOWNSHIP 15 SOUTH, RANGE 25 EAST,  
WILLAMETTE MERIDIAN,  
CROOK AND GRANT COUNTIES, OREGON  
RAGER CADASTRAL, CONTRACT NO. 53-04NO-6-00055,  
OCHOCO NATIONAL FOREST, PAULINA RANGER DISTRICT  
JULY - OCTOBER 1987  
FIELD BOOK 2A

GENERAL NOTES

Found monuments by Povey - LS 1652 are 2" x 30" aluminum pipe with 3 1/4" aluminum caps. The found monument near corner #2 is a 2 1/2" brass cap on a 2" galvanized pipe, set by Cook - LS 540. These corners were re-monumented under previous U.S.F.S. contracts - U.S.F.S. form R6-7100-57 record of corner re-monumentation is on file with the Crook County Surveyor. Found monuments #9 and #10 are 2 1/2" x 28" iron posts with 3 1/4" brass caps, set by C. Albert White, Cadastral Surveyor for the B.L.M. Additional information on these corners and their accessories may be found in the corner notes.

Set monuments are 2" x 30" aluminum pipe with 3 1/4" aluminum caps and were marked as shown in the corner notes. Monuments were set to the depth described, with a rock and soil mound raised to the monument's top. Bearings to all accessories were taken with a staff compass - magnetic declination 19° East. Corner accessories were marked as described in the corner notes. U.S.F.S. sign 54-9 was attached to a metal fence post near the corner and to the back of all bearing trees. New bearing trees were further marked with a completed U.S.F.S. bearing tree sign 54-3, with a 3/4" brass washer stamped "T15 1652", nailed into the BT blaze and with a 6" red paint band. U.S.F.S. form R6-7100-57 record of corner re-monumentation will be filed concurrently with this map with the Crook County Surveyor for all re-monumented GLO corners (corners 3, 4, 5 and 7).

General Land Office record for the Third Standard Parallel from the official notes by J. Wilkins under G.L.O. contract No. 189 dated June 20th, 1873 and for the interior and east lines of Township 15 South, Range 25 East, W.M. from the official notes by E. Thatcher under G.L.O. contract No. 268 dated July 19th, 1877. Record B.L.M. measurements on the south line of Section 36 from the Field Notes of the Dependent Resurvey of the Third Standard Parallel by C. Albert White, completed August 31st, 1960.

Original field notes are on file in the office of Povey and Associates Land Surveyors, Redmond, Oregon.

Equivalent distance in meters for surveyed lines obtained by using the conversion factor of 1 foot equals 0.3048006096 meters.

Personnel for this project were as follows: Project Surveyor, Computations, Instrumentman - Robert R. Povey, LS 1652; Chainman, Records and Reports - William G. Bahrke - LS 2039; Head Chain, Instrumentman - Jeffrey R. Clark.

The bearings of this survey are based on a solar observation taken near the NW corner of Section 36.

SURVEYOR'S CERTIFICATE

I, Robert R. Povey, Oregon Registered Professional Land Surveyor No. 1652, hereby certify that this plat and the notes hereon are a correct representation of a survey I performed during the summer and fall of 1987 at the request of the U.S.D.A. Forest Service in accordance with the Statutes of the State of Oregon and with the articles of Contract No. 53-04NO-6-00055 with Povey and Associates Land Surveyors, Redmond, Oregon.

Povey and Associates Land Surveyors  
P.O. Box 11, Redmond, Oregon 97756  
Phone (503) 548-8778  
Prepared October 12th, 1987

REGISTERED  
PROFESSIONAL  
LAND SURVEYOR

ROBERT R. POVEY  
JULY 14, 1978  
ROBERT R. POVEY  
1652

Office of the County Surveyor, County of Grant, State of Oregon:  
I hereby certify that the within instrument was filed in this office on this  
12 day of Nov, 1987.

Grant County Surveyor

CORNER NOTES

- 1 T15S R25E Found monument marked as shown. Record accessories found:  
1/4 P. Pine 7" in diam. bears S83°E 23.4 feet scribed 1/4S25BT.  
S26 S25 P. Pine 10" in diam. bears S70°W 30.0 feet scribed 1/4S26BT.  
LS 1652 Original BMs are dead and down.  
1985
- 2 T15S R25E Found 19x19x6" stone marked with 5 lines north, 1 line south, 2  
S27 S26 lines east and 4 lines west in a 4' mound of stone (rec. 24x20x8",  
S34 S35 no BMs). A 50d spike was set in the position of said stone, from  
1974 which a 2 1/2" brass cap marked as shown bears S89°24'17"W 258.34  
ORE 540 feet.
- 3 T15S R25E Found 31x15x12" stone marked with 1 line north, 1 line south, 2  
S26 S27 lines east and 4 lines west in a 4' mound of stone (rec. 24x20x8",  
S35 S36 no BMs). Position fits GLO call for creek 7.16 chains  
LS 1652 west. In the position of the stone a monument was set 0.4 feet  
1987 in rock. Accessories taken:  
Juniper 9" in diam. bears N07°W 144.5 feet scribed 1/4S26BT.  
1"x24" iron rod bears S65°W 102.14 feet marked RM S.35 LS1652.  
Metal fence post and sign 54-9 are 3 feet west.
- 4 T15S R25E Found 18x11x8" stone marked with 1x1 notches in a 4' mound of stone  
S26 S25 (rec. 20x12x10", no BMs). A 36" twin Pine bearing N72°W 62' is a  
S35 S36 S-E fence corner. A blaze on the Pine faces the corner and is  
LS 1652 scribed "T" and stamped "TUS" several times. A blaze on the south  
1987 side of the tree is scribed "S". Corner position fits calls for  
creeks 3.70 chains west and 8.10 chains north. In the position of  
said stone a monument was set 0.2 feet in rock. Accessories taken:  
Juniper 4" in diam. bears N69°E 37.5 feet scribed X BT.  
Juniper 7" in diam. bears N47°W 87.1 feet scribed T15SR25E326BT.  
Juniper 6" in diam. bears S21°W 99.0 feet scribed T15SR25E335BT.  
P. Pine 8" in diam. bears S23°E 108.9 feet scribed T15SR25E336BT.  
Metal fence post and sign 54-9 are 5 feet east.
- 5 T15S R25E Found 20x10x9" stone marked 1/4 in a 3' mound of stone (rec.  
S25 S26 20x12x10", no BMs). Position fits GLO call for creek 9.16 chains  
1/4 west. In the position of the stone a monument was set 0.2 feet  
S36 in rock. Accessories taken:  
LS 1652 Juniper 5" in diam. bears N24°E 50.3 feet scribed 1/4S25BT.  
1987 Juniper 6" in diam. bears S43°E 68.9 feet scribed 1/4S36BT.  
Metal fence post and sign 54-9 are 4 feet west.
- 6 T15S Found monument marked as shown. Record accessories found:  
R25E R26E Juniper 4" in diam. bears N74°W 124.0 feet scribed T15SR25E325BT.  
S25 S30 Juniper 9" in diam. bears N32°E 50.7 feet scribed T15SR25E330BT.  
S36 S31 P. Pine 7" in diam. bears S43°E 40.9 feet scribed T15SR25E331BT.  
LS 1652 Juniper 10" in diam. bears S36°W 163.8 feet scribed T15SR25E336BT.  
1985
- 7 T15S R25E Found 14x11x8" stone marked with 1 line north, 1 line south, 2  
S35 S36 lines east and 4 lines west in a 4' mound of stone (rec.  
LS 1652 14x13x8", no BMs). Position fits GLO call for creek 10.50 chains  
1987 south. In the position of the stone a monument was set 0.4 feet  
in rock. Accessories taken:  
P. Pine 9" in diam. bears S51°W 76.8 feet scribed 1/4S35BT.  
Juniper 2" in diam. bears S20°E 48.0 feet scribed 1/4 BT.  
Metal fence post and sign 54-9 are 5 feet north.
- 8 T15S Found monument marked as shown. Record accessories found:  
1/4 R25E R26E Twin Juniper 11" in diam. bears S18°E 211.4 feet scribed 1/4S31BT.  
S36 S31 Juniper 7" in diam. bears N75°W 109.7 feet scribed 1/4S36BT.  
LS 1652  
1985
- 9 SC Found monument marked as shown. Record accessories found:  
T15S R25E Juniper 6" in diam. bears N34°E 89 links scribed T15SR25E336CBT.  
S35 S36 Juniper 20" in diam. bears N70°W 273 links scribed T15SR25E335CBT.  
1959
- 10 SC Found monument marked as shown. Record accessories found:  
T15S Juniper 8" in diam. bears N88°E 466 links scribed T15SR25E313CBT.  
R25E R26E A 3 1/4" brass cap on a 2 1/2" iron post monumenting the closing  
S36 S31 corner to Ranges 25 and 26 East, Township 16 South bears West  
1959 7.23 chains.

NARRATIVE

The following is a narrative of a survey I performed for the U.S. Forest Service in the summer and fall of 1987. The purpose of this survey was to locate the boundary of Ochoco National Forest lands in Sections 25 and 35, T.15S., R.25E.W.M. and in Section 31, T.15S., R.26E.W.M. This boundary would be identified by monumenting its corners and marking the lines between corners with forest boundary signs attached to metal fence posts. Surveys of Section 36 and a portion of Section 26, T.15S., R.25E.W.M. were required in order to accomplish this work.

Initially the exterior of Section 36 was traversed in a closed random loop. At the NW corner of Section 36 two additional traverse legs were set, north and west as well as south and east. Four independent angles were measured at this station, closing on the horizon. These angles were adjusted so that the sum of the four totaled 360°. The remainder of the traverse data was checked for blunders and reduced. Angles within the traverse loop were adjusted equally, except the angle held at the NW corner of the section. The traverse was adjusted using the Crandall method.

The East 1/4 and Southwest section corners of Section 26 were then tied in a closed random loop. The two additional legs set at the NW corner of Section 36 were part of this loop. The traverse loop was then adjusted as outlined above. This work was done using a Jena 010A.1" repeating theodolite and K&E Autoranger II E.D.M.

All previously monumented corners were either occupied or double-tied from the traverse line. Proportionate positions for remaining GLO corners were calculated and each position was searched for evidence of the corner. Marked stones in well established mounds were found at the Northwest, North 1/4 and East 1/4 section corners of Section 36 and at the South 1/4 corner of Section 26. These corners were monumented as described in the corner notes and their positions tied to the traverse line.

The positions of these corners fit record GLO measurements to nearby topography however some of the bearings and distances between corners are considerably different than record. Moderate magnetic local attraction, as much as 8° near the Southwest corner of Section 36, would explain the deviations in bearing. Distances along the east line SE1/4 and south line SW1/4 of Section 26 and along the west line SW1/4 of Section 36 vary enough from GLO record to be suspect and are discussed further.

The distance along the east line SE1/4 of Section 26 is approximately 100 feet short of GLO record distance. Two original bearing trees verify the position of the East 1/4 corner of Section 26. Measurements to found GLO corners 1/2 mile east, west and south and to a creek 3.70 chains west and 5.10 chains north substantiate the position of the Southeast corner of Section 26. As the terrain along this line is not particularly difficult it appears that Thatcher may have dropped two chains in this 1/2 mile.

The distance along the south line SW1/4 of Section 26 is approximately 230 feet longer than GLO record distance. As measurements to a found GLO corner 1/2 mile east and to a creek 7.16 chains west substantiate the position of the South 1/4 corner of Section 26, I felt Cook's position for the Southwest corner of Section 26 was suspect. I found a marked stone in a mound 258 feet east of Cook's monument and tied its position to the traverse line. I accept this stone as the true section corner.

The distance along the west line SW1/4 of Section 36 is approximately 140 feet short of GLO record distance. The position of the West 1/4 corner of Section 36 is substantiated by measurements to a found GLO corner 1/2 mile north and to a creek 10.50 chains south. As the Southwest corner of Section 36 was set at single proportionate position by the BLM, based on found GLO corners 1 mile east and west, I theorized that the original GLO corner might be 140 feet south of the BLM monument. This position would fit measurements to found GLO corners 1/2 mile north and 1 mile east and west and would better fit a GLO call for a creek 10.00 chains west. Also with the magnetic local attraction noted in this area a corner 140 feet out of alignment would not be out of the realm of possibilities. I searched this area and found a stone near record volume in what appeared to be a mound. This stone was examined closely for any markings and none were found. A diligent search for any other evidence of the corner was unsuccessful. As my measurement for the south line of Section 36 reasonably matches the BLM's measurement I conclude that the BLM's monument at the Southwest corner of Section 36 was properly set and I accept this monument as the true section corner.

With the controlling corners of this survey thus established and monumented the forest boundary was posted using cardinal offsets from the traverse line.

