

A PORTION OF "BRIDGE CADASTRAL"

SUBDIVISION AND DETERMINATION OF FOREST BOUNDARY IN SECTIONS 4, 5, 8, 9, 16 AND 17, T.11S, R.39E., W.M., BAKER COUNTY, OREGON.

Survey by: Douglas M. Ferguson, P.L.S. 848
D. Mitchell Ferguson, Party Chief
Rick Saul, Surv. Tech.

Drawn by: Kenneth H. Delano Jr., Computer Specialist

For: U.S.D.A. Forest Service
Wallowa Whitman National Forest

HISTORY OF SURVEYS

In 1863, Timothy W. Davenport performed the original survey along the south boundary of T.10S., R.39E., W.M. (2nd Standard Parallel South) under General Land Office Contract Number 102.

In 1882, Henry W. Cooke performed the original subdivision of T.11S., R.39E., W.M. and established closing corners on the 2nd Standard Parallel South under General Land Office Contract Number 418.

In 1970-1971, Albert J. Garrison and Owen C. Chatters, II, Cadastral Surveyors for the Bureau of Land Management, re-monumented certain original corner points along the south boundary of T.10S., R.39E., W.M. and along the north boundary of T.11S., R.39E., W.M. (2nd Standard Parallel South) under Special Instructions dated May 3, 1967 and executed under Group No. 350 dated May 6, 1967, with final approval dated March 31, 1976.

In 1970-1972, Peter A. Peterson, Albert J. Garrison and Owen C. Chatters, II, Cadastral Surveyors for the Bureau of Land Management, re-monumented certain original corner points in T.11S., R.39E., W.M. under Special Instructions dated May 3, 1967 and executed under Group No. 350 dated May 6, 1967, with final approval dated March 28, 1977.

In 1976, Leland Myers, PLS 699, re-established the 1/4 section corner for S17/S16 by proportionment measure and subdivided Section 17 during the course of his survey for Black Mountain Ranch and Skyline Acres Subdivisions. Baker County Plat Book 4, Page 30 (Black Mountain Ranch) and Page 31 (Skyline Acres).

In 1986, William R. Wells, PLS 1106 and William L. Hanley, PLS 1639, performed a joint venture contract for the Wallowa-Whitman National Forest (Rancheria Cadastral). During the course of this contract they retraced the east line of Section 16 and re-monumented the 1/4 section corner for S16/S15 from original evidence. Baker County Map of Survey Number 11-39-20.

In 1990, Douglas M. Ferguson, PLS 848, retraced a portion of the south boundary of T.10S., R.39E., W.M. (2nd Standard Parallel South) and re-monumented certain standard corners, under contract for the Wallowa-Whitman National Forest (Bridge Cadastral). Baker County Map of Survey Number 10-39-85.

LEGEND

- Set 2-1/2"x3/8" aluminum pipe with 3-1/2" aluminum cap stamped as shown in the "MONUMENTATION"
- ⊙ Found acceptable evidence, set monument.
- Found monument of record, as described in the "HISTORY" and the notes at each corner
- (*) Record bearing and distance as reported by Timothy Davenport in 1863 under G.L.O. contract No. 102.
- (C) Record bearing and distance as reported by Henry W. Cooke in 1882 under G.L.O. contract No. 104
- { } Record bearing and distance as reported by Leland Myers, P.L.S. 699, during the survey for Black Mt. Ranch (Baker County Plat Book 4, page 30) and Skyline Acres Subdivision (Baker County Plat Book 4, page 31)
- < > Record bearing and distance as reported by William R. Wells, P.L.S. 1106, and William L. Hanley, P.L.S. 1639, in 1986, Baker County Map of Survey No. 11-39-20.
- [] Record bearing and distance as reported by Douglas M. Ferguson, P.L.S. 848, in 1990, Baker County Map of Survey No. 10-39-85.
- Exterior section lines
- - - Center section lines
- - - - Subdivisional lines
- N.F.S.L. NATIONAL FOREST SYSTEM LANDS
- PVT. PRIVATE LAND
- PVT. Marked forest boundary with steel posts and forest boundary signs at maximum intervals of 300 ft.
- N.F.S.L.
- * Existing fence line with long line showing direction
-) Existing road

NARRATIVE

This survey was performed under contract for the Wallowa-Whitman National Forest for the purpose of marking the Forest boundary in T.11S., R.39E., Sections 5, 8, 9, 16 and 17.

In order to perform this survey the exterior lines of Sections 5, 8, 9, 16 and 17 were retraced. Aside from the previously monumented corners noted in the History, extensive corner search was conducted at 1/4 section corners S7/S8 and S8/S9. However, no evidence was found for either corner and their positions were subsequently re-established by single proportionment measure utilizing previously monumented sections corners one-half mile north and south of these subject 1/4 section corners.

I conducted an extensive search for the 1/4 section corner for S7/S8, however I failed to recover any evidence due to past logging practices and past fires. As noted above, this corner was re-established by single proportionment measure.

Around 1970, John Mitchell prepared a corner card for the Forest Service that states he found scribbling on a stump and felt he had recovered evidence for the 1/4 section corner for S8/S9. He also made reference to a stone that he found. Mr. Mitchell nailed a BT sign to the stump. Upon examination of this stump I found no scribbling on this partially burned stump. The original GLO notes state the corner monument was a post, however I did not even find the stone John Mitchell referred to on his corner card. There were very few stones in the area. I tied this stump into my control survey, calculated the corner position and found it did not fit very well in the terms of distance. In further analysis of this situation I found John Mitchell worked with the BLM Cadastral Surveyors who performed the re-monumentation project in this township in 1970-1972. I am sure the BLM Cadastral Surveyors reviewed John Mitchell's purported evidence and also were not able to substantiate it and rejected this supposed evidence. I too was not able to substantiate this stump and I also rejected it as evidence. I conducted an extensive search for this corner, however failed to find any evidence and subsequently re-established it by single proportionment measure as noted previously in this narrative.

The closing corners for S5/S5 and S5/S4 were re-monumented, based on original evidence, by the BLM in 1970. During the course of this survey I found these monuments to be north of the 2nd Standard Parallel South by 1.11 feet and 5.11 feet respectively. In light of the fact I found these BLM monuments to be off of the senior line I amended their positions and monumented their intersect points on the 2nd Standard Parallel South. Since these corners had been re-monumented by the BLM under Federal Authority, I did not feel I had the authority under my State license to stamp the letters "BM" on the BLM brass caps so I didn't. Both BLM caps were buried under mounds of stone and earth as noted in my "Certified Record of Land Corner Monumentation" forms for these corners.

The north 1/4 section corner for Section 5 was not originally monumented by the GLO surveyor and as required by this contract I monumented it's position. This position was determined at mid-point longitudinally between the closing corners and placed on the 2nd Standard Parallel South.

The E 1/16 on the north line of Section 5 was determined at mid-point longitudinally between the north 1/4 section corner and northeast section corner of Section 5 and placed on the 2nd Standard Parallel South.

The position shown on my map of survey for the N 1/16 for S5/S4 (not monumented) was determined based on the position of the original closing corner for S5/S4, as re-monumented from original evidence by the BLM.

Likewise the position shown on my map of survey for the N1/16 S8/S5 (not monumented) was determined based on the position of the original closing corner for S8/S5, as re-monumented from original evidence by the BLM.

The Government Lots shown in Section 5 were proportioned based on parenthetical distances determined from the original GLO plat.

In 1976, Leland Myers (PLS 699) re-established the 1/4 section corner for S17/S16, by single proportionment measure during the course of performing two subdivision surveys, entitled Black Mountain Ranch and Skyline Acres. I also searched for original evidence at this corner and failed to find any evidence. However I find Mr. Myers record for this corner to be full of anomalies.

Mr. Myers subdivision plat for Black Mountain Ranches fails to show his total record bearing and distance from the subject 1/4 corner north to the section corner of S 8/S 9. S17/S16 He does show his record bearing and distance to the N 1/16 S17/S16 he established during the course of this survey, as N018°10'W, 1,310.80 feet.

Mr. Myers does return on his Skyline Acres subdivision plat a bearing and distance of S018°10'E, 2621.30 feet (if I read his plat correctly, the printing is small) from the subject 1/4 section corner south to the section corner of S17/S16. S20/S21

However on the face of his two subdivision plats I am unable to determine Mr. Myers total record bearing and distance along this mile. The full problem emerges when Mr. Myers' Certified Record of Corner Monumentation form for this corner is reviewed. This form states in part: "I found the section corners to the north and south to be BLM, 1970 and 1972 brass caps with a bearing of N017°50'W and a distance of 5251.2 feet between them. The original corner was half between, so at 2625.6 feet I set a..."

The problem is that between Mr. Myers' two records there is a difference of 20' in bearing and somewhere between 8-9 feet in length in this mile. I find the total length of this line to be 5,242.73 feet. I find Mr. Myers' monument for 1/4 section corner S17/S16 to be located N019°15'W, 2621.84 feet from the BLM monument for S17/S16. S20/S21

Single proportionment measure for this corner, based on my retracement, would place the monument N019°06'W, 2621.37 feet from the BLM monument for S17/S16. S20/S21

Mr. Myers' monument is well within positional tolerance and I accept his position for this corner. I cannot explain his differences in record for this corner.

In addition to the bearing and distance problem for this subject 1/4 corner, I also find a very large conflict between Mr. Myers' record concerning the bearing trees he established and where the trees are actually located. Mr. Myers' record states he established the following bearing trees:

- A 14" W. Larch which bears N34°E, 44.8 ft.
- A 16" D. Fir which bears N88°W, 14.8 ft.

I tied Mr. Myers' bearing trees into my control survey network and I find them to be at:

- A 14" Western Larch bears N70°12'E, 45.6 feet
- A 18" Douglas Fir bears N45°37'W, 14.5 feet

In 1985, according to his corner card, William Holland (a contractor for the Forest Service) visited this corner and utilizing a hand compass, he found the bearings to be N72°E to the Western Larch and W43°W to the Douglas Fir. I find no explanation for the large differences in bearings between Mr. Myers' and myself (and William Holland).

As previously stated, during the course of his Black Mountain Ranch and Skyline Acres subdivision survey, Mr. Myers re-established the 1/4 section corner for S17/S16, and then subdivided Section 17 and established the following sectional subdivision corners: C1/4 S17; C-N 1/16 S17; N1/16 S17/S16. However I am not able to determine from Mr. Myers' plats how he determined the position for the C1/4 S17 due to the fact the Black Mountain Ranch plat is missing a portion of the course showing the bearing and distance from the C1/4 S17 north to the C-N 1/16 S17. Consequently I cannot show Mr. Myers' record for this course on my map of survey.

I occupied all of Mr. Myers' section subdivisional monuments during the course of my survey and I find them to fit within acceptable positional tolerances and I accept all of their positions. As shown in my "Certified Record of Land Corner Monumentation" form, I noted how I found Mr. Myers' monument for the C1/4 S17 stamped on the cap. While this stamping does not meet the BLM's 1973 Manual of Surveying Instructions standards, I did not replace his monument.

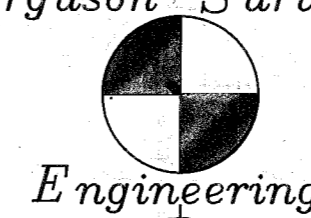
The "Certified Record of Land Corner Monumentation" forms as referenced to this Map of Survey and the notes shown on the Map should be considered a substantial part of this Narrative as they contain the detailed information as to the evaluation of evidence and monumentation work performed.

Positional control for this survey is provided by a closed traverse network. A Lietz SDM3E semi-total station was used to obtain measurements and field set monuments from the survey control. An HP Vectra QS/20 (IBM compatible 386) utilizing Microsoft software was used to perform the computations and the Map was prepared utilizing AutoCad v.10. The basis of bearing was determined by solar observation to determine a true meridian through the center of the project. Field notes and computations are on file in the office of Ferguson Surveying and Engineering, Mr. Vernon, Oregon 97865.

I, Douglas M. Ferguson, Registered Professional Land Surveyor, in the State of Oregon, hereby certify that this Map, notes and records hereon or referenced, are a correct representation of the survey I performed during the months of June-July 1991 for the U.S. Forest Service in accordance with the Statutes of the State of Oregon and the articles of my Contract Number 63-04M3-8-03310.

DOUGLAS M. FERGUSON, PLS 848
President, Ferguson Surveying and Engineering

Ferguson Surveying

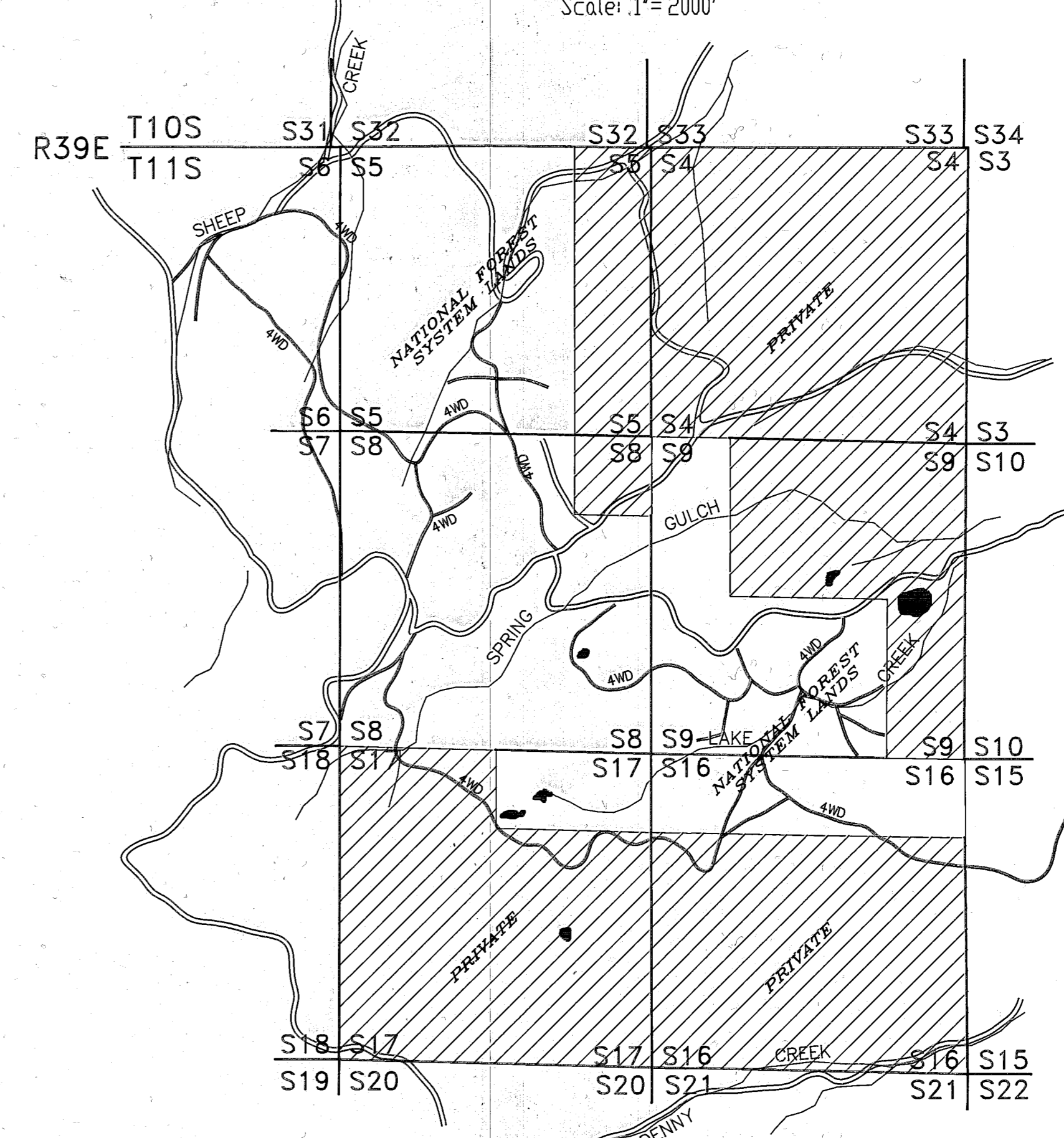
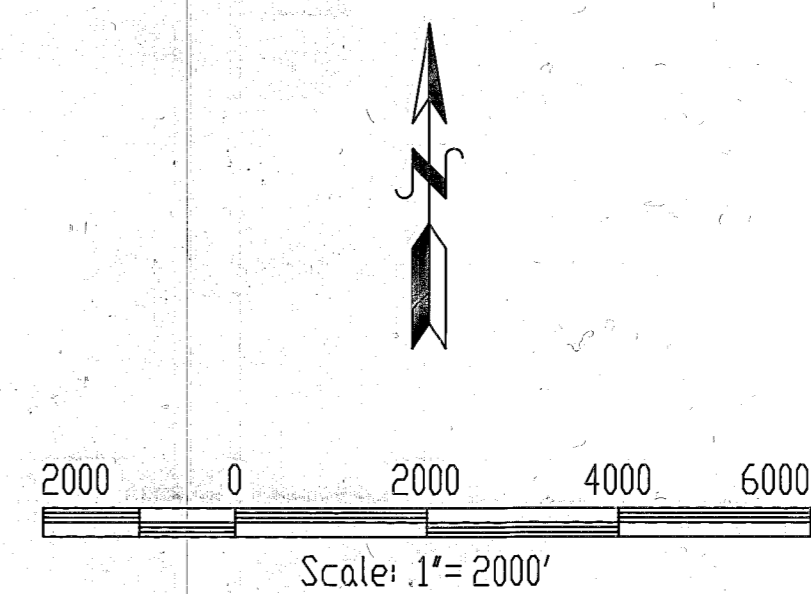


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VICINITY MAP



REGISTERED PROFESSIONAL LAND SURVEYOR
OREGON
DOUGLAS M. FERGUSON
848

EXAMINED AND ACCEPTED FOR THE U.S. FOREST SERVICE
THIS 5th DAY OF December 91
SIGNATURE *Edwin A. Styer*
C.O.R.
I CERTIFY THAT THIS SURVEY WAS PERFORMED AT THE REQUEST OF THE WALLOWA WHITMAN NATIONAL FOREST
SIGNATURE *William R. Wells* DATE 12/5/91
FOREST SUPERVISOR