

MAP OF SURVEY
TOTO CADASTRAL SURVEY
USFS CONTRACT NO. 04M3-8-6103
SECTIONS 7, 8, 17 & 18, T4S, R35E, WM
UNION COUNTY, OREGON

NARRATIVE OF SURVEY

Purpose of Survey

The purpose of the survey was to establish section lines and subdivide Sections 7, 8 & 17, T4S, R35E, WM, into aliquote parts to delineate Forest Service lands from private by monumenting all found controlling corners, monumenting new corners established by survey and marking the property lines with steel fence posts set at a maximum interval of 300 feet with Property Boundary Signs attached. Also, to retrace a Duane Griffith 1976 subdivision of Sections 7 & 18 of said township to mark the Forest boundary as stated above between monuments set at that time.

Survey History

The exteriors of T4S, R35E, were surveyed by Jacob C. Cooper, US Deputy Surveyor, under Contract No. 397 dated July 1, 1881. The township was subdivided by Rufus S. Moore, US Deputy Surveyor, by Contract No. 451 dated June 12, 1882. Duane Griffith, PLS 644, subdivided the SW $\frac{1}{4}$ of Section 7 and the NW $\frac{1}{4}$ of Section 18 in 1976 as shown on Union County Map of Survey No. 43-76. In 1985, Duane Griffith monumented all the found controlling GLO corners used for the 1976 survey and several other found GLO corners as shown on this map in conjunction with Union County Map of Survey No. 30-85.

James Voltz, PLS 381, monumented the NW corner of Section 7 and the north quarter corner of Section 17 from found GLO evidence in 1970. These corners were maintained by Duane Griffith in 1985 also. In 1984, the north quarter corner of Section 8 was monumented by Gary Langlitz, PLS 1099, from found GLO evidence. David Haddock, PLS 852, surveyed Section 12, T4S, R34E in 1986 which is recorded as Union County Map of Survey No. 35-86. In that survey he maintained the north SW corner of Section 7 and established the north one-sixteenth corner between Sections 12 and 7.

In 1987, Dennis Gaylord, PLS 1636, monumented the NE corner of Section 8 by found GLO corner evidence. Thomas Milne, PLS 1829 and Richard Shaver, PLS 1015, had done a preliminary survey to subdivide Section 8 in 1980. They established a No. 5 rebar as the preliminary east quarter corner by single proportionate measurement due to the lack of finding any original GLO corner evidence. This was recorded as Union County Map of Survey No. 41-88.

Survey Method

The survey method used was random closed traverse that included all the found and monumented corners. Property lines were posted by offsets from the random traverse to the true line. The bearing between the south quarter corner and SE corner of Section 7 on Map of Survey No. 43-76 was used as the basis for bearings which was determined by solar observation. Horizontal angles were measured to the right and doubled. The horizontal distance was measured from both ends of the line and averaged if the difference was less than 0.10 foot, otherwise, the distance was checked to determine the cause of the discrepancy.

Equipment Used

The instrument used was an OMNI Total Station with a built-in data collector. Data was transferred to a TRS-80 Model 100 computer with a PICDISC disk drive which reduced the data, balanced the traverse, if within the survey standards specified in the contract and Oregon state law, and executed all computations. Traverse data and computations were printed out on an Epson MX 100 printer. The data and all point coordinates have been saved on disk or cassette tape. All accessory bearings and distances were measured with the total station with the control traverse being the basis for bearings.

Respectfully submitted this 12th Day of September, 1989.

LEGEND

Section & 1/4 Corners Previously Set

Section & 1/4 Corners Reset

1/4 Corner Set by Proportion

1/4 Corners Set by Found Evidence

C1/4 Corners Previously Set

C1/4 Corners Set by Survey

1/16 Corners Previously Set

1/16 Corners Set by Survey

Posted National Forest Boundary Lines

NF Boundary Not Posted This Survey

Section Lines

Center Section Lines

Projected Lines

Record Bearing and Distance

Map of Survey No. 43-76 (N0° 33' 36"W, 2624.10')

Map of Survey No. 35-86 ((N0° 24' 07"W, 1343.45'))

Map of Survey No. 41-88 (N0° 06' 44"E, 2663.90')

Original GLO (N89° 40'W, 39.75 ch)

Legal Subdivision of USFS Property NE1/4SW1/4

Certified Corner Record Index No. See Corner Restoration Records

Monuments Set by this Survey are 2" Aluminum Pipes with 2 1/2" Aluminum Caps

Survey Evaluation

As I began work on this project, I found the monuments for the southwest and west quarter corners had been pulled out of the ground. It appears to have happened during the clearing of the fence line for the new elk enclosure fence on the Starkey Experiment Station. The USCG&S bench mark and one bearing object No. 4 rebar at the SW corner was also destroyed. The original corner monument locations were determined by carefully measuring from the remaining accessories and adjacent corners. By carefully digging at the location determined, I was able to find the original hole made by the monument. I reset the two monuments and stamped them with "RESET 1989 PLS 699."

The east quarter corner of Section 8 falls within the right-of-way of Oregon State Highway No. 244. I visited with Tom Milne and he told me that they had looked at nearly every wood scrap in the area in an effort to find scribing. I reviewed all the scraps I could find with no success either. There is one stump that could have been a bearing tree, but no evidence could be found that would confirm it to be so. The corner location falls near the toe of the highway fill and adjacent to the old Mt. Emily Logging Co. camp. I conferred with Gregg Blackman of Baggett, Griffith & Associates; Gary Langlitz and Howard Perry of Anderson Perry & Associates; and Guy Francy of Boise-Cascade concerning the whereabouts of the old Mt. Emily Railroad road-bed construction or right-of-way maps or note books which would show a tie to the old quarter corner. No one had any knowledge of the old Mt. Emily records. The State Highway right-of-way map was of no help. This corner was considered lost, and the single proportionate corner position marked with the No. 5 rebar was accepted as the best representation of the original quarter corner.

The prior subdivision of Section 7 by Duane Griffith had minor differences from my computed corner locations. These differences were considered acceptable by me and COR Dick Chesebro. The scope of this contract did not include a subdivision survey of Section 18. I was to maintain the west and north quarter corners and post the line between the corners set by Duane Griffith. I cannot vouch for the correctness of the west and center quarter corners due to the incomplete survey of the section, but my measured distances and the ones of record are very compatible.

For the most part, fences did not encroach on Forest Service land except on the north side of the S $\frac{1}{2}$ N $\frac{1}{2}$ E $\frac{1}{2}$ W of Section 17 and the S $\frac{1}{2}$ N $\frac{1}{2}$ W of Section 8. There is the possibility of a minor timber trespass in Section 17, but most of the land is barren scrub-rock with only scattered trees along the west half of the line. However in Section 8, a corner of a house appears to encroach by about 11 feet onto Forest Service land. The house owner has also used additional space as a yard. The house is part of the old Mt. Emily logging camp and has been in this location for many years. For some reason the approximate center-north one-sixteenth corner was almost 100' south of its true location and the fence and blaze line from the approximate corner to the highway is nearly 20' north from West.

The CERTIFIED RECORDS OF LAND CORNER MONUMENTATION as recorded in the office of the Grant County Surveyor indexed on this map and as shown in the Proof of Recording for each corner set or maintained by this survey are hereby made a part of this narrative to provide detailed corner information. All recorded documents for this project contain the Forest Service contract number as shown in the CERTIFICATION as a cross reference and identifier for this survey.

CERTIFICATION

I, Leland Lee Myers, a Professional Land Surveyor registered in the State of Oregon, office located at 587 E. Auburn St., PO Box 98, Sumpter, OR 97877, do hereby certify that I did perform this survey from October 16, 1988 to July 23, 1989, at the request of USDA-Forest Service by TOTO Cadastral Survey Contract No. 04M3-8-6103 and that the information shown hereon is correct to the best of my knowledge.

REGISTERED PROFESSIONAL LAND SURVEYOR
OREGON
LELAND LEE MYERS
699

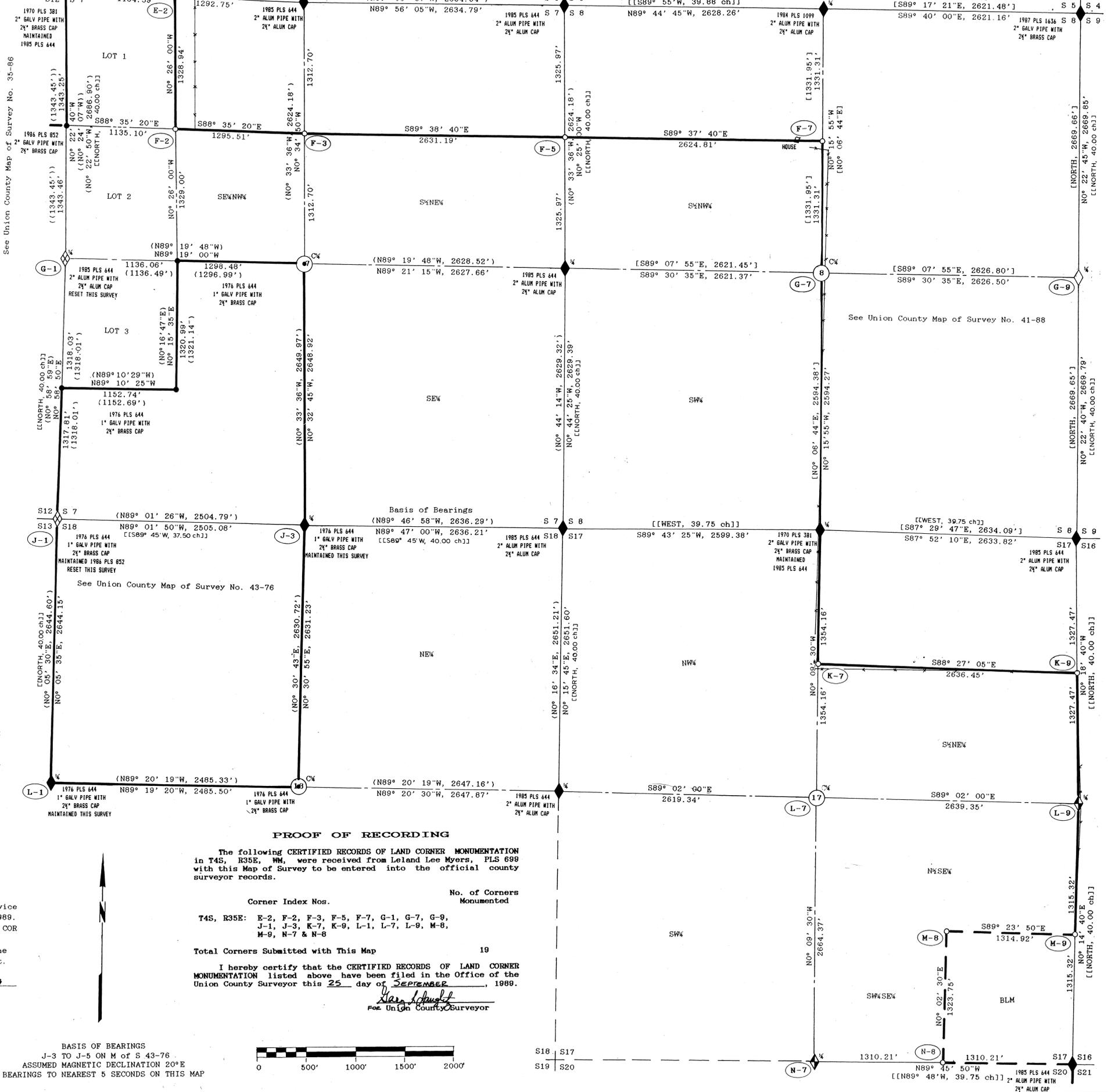
Examined and Accepted for the U.S. Forest Service this 18th day of SEPTEMBER, 1989.
Richard A. Chesebro
COR

I certify that this survey was performed at the request of the Wallows-Whitman National Forest.
4 Forest Supervisor
Signature
Date 9/18/89

UNION COUNTY SURVEYOR
Date Received 9-25-89
Date Filed 9-25-89
By G. Langlitz
File No. 21-89

See Union County Map of Survey No. 30-85

See Union County Map of Survey No. 43-76



PROOF OF RECORDING

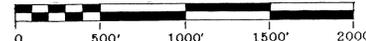
The following CERTIFIED RECORDS OF LAND CORNER MONUMENTATION in T4S, R35E, WM, were received from Leland Lee Myers, PLS 699 with this Map of Survey to be entered into the official county surveyor records.

Corner Index Nos. No. of Corners Monumented
T4S, R35E: E-2, F-2, F-3, F-5, F-7, G-1, G-7, G-9, J-1, J-3, K-7, K-9, L-1, L-7, L-9, M-8, M-9, N-7 & N-8
Total Corners Submitted with This Map 19

I hereby certify that the CERTIFIED RECORDS OF LAND CORNER MONUMENTATION listed above have been filed in the Office of the Union County Surveyor this 25th day of SEPTEMBER, 1989.

Signature
For Union County Surveyor

BASIS OF BEARINGS
J-3 TO J-5 ON M of S 43-76
ASSUMED MAGNETIC DECLINATION 20°E
BEARINGS TO NEAREST 5 SECONDS ON THIS MAP



S18 S17
S19 S20

See Union County Map of Survey No. 30-85