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NARRATIVE "B"

COUNTY SURVEYOR
DOUGLAS COUNTY, ORE.

Survey Map No. M 112 - 9
Location: Section 32, T22S, R12W, W.M., Douglas County
Date: July, 1990
By: Stuntzner Engineering & Forestry
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My Narrative "A" on the survey map gives an overview of what I did. This narrative is to explain my reasons. In my 1989 survey of Section 31, I found the original NW Corner, W1/4 Corner and SW Closing Corner of Section 32. I set the S1/16 by single proportion between the W1/4 Corner and the original closing corner. I calculated the true SW closing corner at the intersection of the line from the W1/4 of Section 32 and the original closing corner and the line from the original M.C. on the East bank of the West arm of Eel Lake and having found no evidence of the original corner to Section 5 and 6 I used the original M.C. on the East bank of the East arm of Eel Lake. I remonumented the original position and did not monument the true intersection at the SW Corner of Section 32.

I was unable to find the N1/4 Corner so I reset it using Section 5-36 of the BLM manual. Using the found original NW Corner and the found original M.C. on the West bank of the East arm of Eel Lake. I used the irregular boundary method to accomodate for the East and West halves of the line having been run by different surveyors and the original plat showing an angle break at the 1/4 corner. I found a fir stump and maple resprouts nearby that approximated the original BT's but I felt I should have been able to see marks on the fir and there were none so I used my proportionate position.

I calculated the Center 1/4 by extending a line from the E1/4 on an average bearing of the East halves of the North and South section lines to intersect with a line between the North and South 1/4 Corners. To do this I found the original NE Corner which gave me the North line. I then found the original E1/4 Corner which gave me a starting point for my Westerly centerline projection. The SE closing corner falls on North Tenmile Lake. The corners on the East and West bank of the lake were called witness corners but there was no corner to witness at that time so they should have been meandor corners. The closing corner was set later by running South to the North bank of the lake and setting a M.C. also called a witness to the corner. This corner has not been recovered. The original surveyor then tied to the M.C. on the East bank and calculated the closing corner. He then checked the distance from the M.C. East to the corner of Sections 4 and 5 at 10.55 chs. The original measure was 11.75 chs. Survey M103-31 retraced this distance as 11.89 chs.

I tied into the control traverse for Survey M103-31, which ties the position of the original M.C. on the East bank of North Lake. I then calculated the position of the closing corner by single proportion between the M.C. and the found original N1/4 of Section 5.

The original plat of Section 32 has an error in distance that I isolated to the distance between the M.C.'s on the West bank of North Lake and the East bank of Eel Lake (Plat shows 51.81 chs. but notes show 48.5chs. which agrees more nearly with my measure). The lotting on the plat shows that he intended the 1/4 corner to be at 40 chs. with the error to the West and South. Using the measure as returned on the survey of the standard parallel and 4.99 chs. from the M.C. on the East bank of North Lake to the closing corner I established the S1/4 by single proportion between the found original M.C. on the East bank of Eel Lake and the found original N1/4 of Section 5.

The North and South Section lines both have angle breaks so I calculated the average bearing by stacking the courses and distances and inverting between the end points. This gave me the information I needed to calculate the Center 1/4.

The original plat does not show lotting for the Northwest 1/4 so I set the W1/16 and CW1/16 at the midpoints of their respective lines.

In a letter from Wayne Gardner, Chief Branch of Cadastral Survey BLM, he agreed with the method I have described above.

