



- REFERENCE MATERIAL**
- Notes of the Original Government Surveys:
 - Township Boundaries, 1863, by T. Davenport
 - Township Boundaries (Retracement), 1881 by W. Barr
 - Subdivisions, 1881 by W. Barr.
 - Union County Clerk's Records
 - Deed Records: Vol. 160, page 106 # 74368 (Microfilm)
 - Road Records: Petitions for Roads #72 and #347
 - Union County Surveyor's Records
 - Survey Vol. 1, Pages 28 and 339
 - Survey No's: 12-62, 37-66, 37-77, 46-77
 - Oregon State Highway Department.
 - Map No's: 6B-35-11 and 9B-1-19
 - Manual of Surveying Instructions, 1973, B.L.M.

BASIS OF BEARING
 SOLAR OBSERVATION TAKEN SEPT. 8, 1981
 IN THE VICINITY OF THE EAST 1/4 CORNER
 OF SEC. 25, T.4S, R.38E, W.M.

NARRATIVE

This survey was requested by Northwest Pipeline Corporation to determine the relationship of the existing pipelines (22" and 30" diameter) to the boundaries of the NE 1/4, SE 1/4, SW 1/4, and NW 1/4 of Section 13, T.4S, R.38E, W.M. All of the properties in this area are described by reference to aliquot parts of the various sections. The exterior boundaries of the section must be located in order to define the interior subdivisional lines of the section.

A thorough search was performed for the original survey corners of Section 13, based on the records of the original survey, field measurements and recent surveys. The original survey monuments established in 1883 and 1893 were either a stone or post in a mound of stone. This area is composed primarily of grass and sagebrush rolling hills with large amounts of exposed bedrock and loose surface rock visible. We were unable to locate any evidence of the original monuments for the section and 1/4 corners of Section 13. In the absence of these monuments, the corners of the survey may be satisfactorily located by reference to topographic calls, testimony and other evidence which meets the criteria specified in the Manual of Surveying Instructions, 1973, Bureau of Land Management (Refer to Chapters 5 and 6). Proportionate measurement should only be used as a last resort.

Additional searches for original monuments and record topographic features were made South along the line between Ranges 38 and 39 East to approximately 1/4 mile south of the 1/4 corner to Sections 23 and 24, and for the 1/4 corners to Sections 11 and 12, 13 and 14, 18 and 23, 23 and 24, 19 and 30 in T.4S, R.38E, and the section corner common to Sections 1, 2, 13 and 12 in T.4S, R.38E. Acceptable evidence was found for three of these corners as shown.

Since original corner monuments are not available in the immediate vicinity and in consideration that substantial error may be introduced into the position of the boundaries of Section 13 if proportionate measurement from the more distant corners is used, we determined that the boundaries of Section 13 can be located in their original positions by utilization of topographic calls contained in the original notes, existing fences and recent surveys.

After considerable evaluation, the mean position of the existing N-S fence between Sections 23 and 30, 19 and 24, and 7 and 18, T.4S, R.38 and 39E was accepted as the best available evidence of the N-S position of the range line. The creek shown in the original survey notes (1883) and the existing fence corner at the NE corner of Section 13, which is in agreement with the original topographic and descriptive survey calls, were used to control the N-S positions along the range line. The relationships of the various calls are shown on this map. The position we have established for the NE corner of Section 13 is in agreement with the call of 1300 chain to a "Ridge Course North" located West of the corner. Use of this call would distort the relationships shown on this map since the ridge called for actually exists.

The SW corner of Section 13 was established by combining single proportionate measurement on line between the SW corner of Section 13 and the NW corner of Section 12 and record calls to Lead Creek located South and East of the corner.

The exterior 1/4 corners of Section 13 were established by single proportionate measurement along their respective section lines and the section was subdivided according to usual survey procedures. Several stone mounds of various sizes exist near the calculated positions of the E 1/4 corner and the SE and SW corners of Section 13. Due to the lack of the original corner monuments, nearby topographic calls and noting the type of fence construction used (rock jacks and posts in mounds), no method is available to positively identify these mounds as the remains of the original corner positions.

We find a substantial discrepancy between our surveyed corner locations and the existing fence running N-S through the center of Sections 13 and 24. No evidence was found (Refer to Union County Surveyor's Vol. 1, Pages 28 and 339) which would support adopting this fence location as the best evidence of the N-S centerline of Section 13.

The pipelines shown are in-place and buried at the sites. Their location was determined by use of a metal locator and was tied by actual measurement to this survey.

- LEGEND**
- △ FOUND MONUMENT AS DESCRIBED
 - SET 2" x 30" GALV. IRON PIPE WITH BRASS CAP BY PROPORTIONATE MEASUREMENT. COMPLETE DESCRIPTION OF MONUMENT GIVEN ON "RECORD OF LAND CORNER MONUMENTATION" FILED CONCURRENTLY WITH THIS SURVEY.
 - SET 5/8" x 30" IRON ROD WITH PLASTIC CAP MARKED P&A
 - SET 2" x 30" GALV. IRON PIPE WITH BRASS CAP FROM ORIGINAL CORNER EVIDENCE
 - SET 2" x 30" GALV. IRON PIPE WITH BRASS CAP FROM TOPOGRAPHIC CALLS AND/OR MODIFIED PROPORTIONATE MEASUREMENT AS DESCRIBED IN NARRATIVE
- EXISTING FENCE LINE (40.00 chs)
 — RECORD DIMENSION FROM ORIGINAL G.L.D. SURVEY

UNION COUNTY SURVEYOR

Date Received 10-29-81
 Date Filed 10-29-81
 By G. LANGLITZ, DEPUTY
 File No. 76-81

REGISTERED PROFESSIONAL LAND SURVEYOR
 GARY L. LANGLITZ
 1089

PROPERTY SURVEY
 SUBDIVISION OF SECTION 13, T.4S, R.38E, W.M.
 UNION COUNTY, OREGON

FOR: NORTHWEST PIPELINE COEP. 90 S. COLE ED. BOISE, ID. 83709

SCALE: 1" = 400'
 DATE: SEPT-OCT. 1981
 JOB NO: 2693-21

SHEET NO. 1/1

Anderson Perry & Associates, Inc.
 engineering • surveying • materials testing
 LA GRANDE, ORE. & WALLA WALLA, WASH.