

**LEGEND**

- ⊙ Found monument as noted
- Set 2 1/2" brass cap on 1/4" iron pipe
- ////// Property line marked with steel fence posts
- ( ) GLO record bearing/distance
- [ ] J. W. Kimbrell record bearing/distance
- [ ] Barry B. Barbour, PLS 1051, record bearing/dist.
- [ ] J. Hambleton, PLS 645, record bearing/distance

Reference surveys: 22-81, 28-87, 33-90, 50-91 and Kimbrell's survey of 1889.

**SURVEY NARRATIVE**

The purpose of this survey for Hanson Natural Resources Company was to mark on the ground the property boundaries as shown hereon for fence construction and to perpetuate found original GLO corner locations, by brass cap remonumentation.

History of surveys in T. 6 S., R. 38 E., W.M.:

T. Davenport initially surveyed the First Standard Parallel South under GLO contract No. 102, dated July 20, 1863.

W. Barr retraced the First Standard Parallel South and the Westerly part of the township under GLO contract No. 388, dated May 7, 1881.

Thompson and Chaplin surveyed the Easterly part of the township under GLO contract No. 104 dated April 16, 1864.

J. W. Kimbrell, Union County Surveyor, resurveyed Sections 3, 4, 9 and 10 for various landowners in 1889.

Barry B. Barbour surveyed Sections 5 and 6 for Crown Zellerbach, Union County Survey No. 22-81.

J. Hambleton retraced a part of the First Standard Parallel South, Union County Survey No. 28-87.

Hanley Engineering surveyed Sections 8, 9, 16 and 17 for Oregon Department of Fish and Wildlife, Union County Survey No. 50-91.

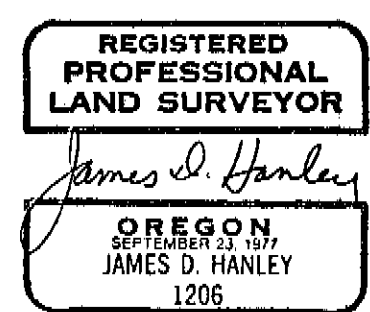
GLO notes lack descriptions for the North quarter corner of Section 3 and the North quarter corner of Section 4, and omit record distance between Section 2 and 3 closing corner and the standard corner for Section 34 and 35.

Information from the Kimbrell survey of 1889 was used to reestablish the location for the missing corner common to Sections 3, 4, 9 and 10. His overall distance of 3895.65 feet from his established N1/16 corner between Sections 9 and 10 to the found quarter corner between Sections 3 and 4 compares to the measured distance of 3886.26 feet. The northing of the section corner was established by proportioning the distance between Kimbrell's N1/16 corner and the found quarter corner. The easting of the section corner was established by proportioning the distance between the found quarter corners East and West using GLO record. Additional pertinent details are shown hereon at corner points.

Field traverse work was performed using a Kern DKM2-AE theodolite and Leitz Red 2L EDM. Closure errors were less than 1:25,000.

**MAP OF SURVEY**  
FOR  
**HANSON NATURAL RESOURCES CO.**  
IN  
**T. 6 S., R. 38 E., W.M.**  
**UNION COUNTY, OREGON**

SURVEYED APRIL - NOVEMBER, 1991  
SCALE: 1" = 800'



HANLEY ENGINEERING  
2043 MAIN STREET  
BAKER CITY, OREGON

**UNION COUNTY SURVEYOR**

Date Received 12/18/91  
Date Filed 12/20/91  
By *James D. Hanley*  
File No. 065-1991

Basis of bearing:  
N. Line NE 1/4 S8  
Bears N. 79° 07' 09" E  
Union Co. Survey No. 33-90

Survey Number 065 - 1991