

NARRATIVE OF SURVEY

This survey was performed at the request of EURUS ENERGY AMERICA CORPORATION. The purpose of the survey was to identify and locate the agreed upon boundary line in Section 32 as shown. This section is divided into two ownerships and the deed boundary lies along aliquot part lines. The request is to establish one portion of the boundary in accordance with the historical possession indicated by the existing fences.

The original government survey in this township set posts for the section corner monuments in 1855. Subsequent surveys by the County Surveyors in 1905, 1914, and 1919 indicate that these monuments were already badly decayed by that time.

There are three existing conditions which dictated the extents of this survey. First, farming in the area has obliterated many of the corner monuments. Secondly, County Surveyor, John Kimbrell, performed the road survey for Troyer Road in 1906. The road petition specified the beginning point as the southeast corner of section 22 and merely requested the road to run "West". Mr. Kimbrell shows on his map that he followed the section lines but the road is more than 500 feet north of the location of the original government corners along the north line of section 30 as they were found in 1914 by then County Surveyor Willard Bradley. Thirdly, current government maps and private surveys performed since 1997 claim that there were two sets of monuments established along the Range line between Ranges 33 and 34 East.

Township 6 North, Ranges 33 and 34 East were surveyed under contract No. 110 in 1855 by Deputy Surveyors Odell & Lewis. However, their work in Range 33 East was rejected by the GLO. The subdivision of Range 33 East was completed in 1874 by Deputy Surveyor Nicholas O. Walden. The plat of Range 33 East does not show the previously surveyed lines of Range 34 East, but Mr. Walden's notes clearly indicate that he held Odell's corners along the range line. Mr. Walden was operating under the 1855 Manual of Instructions. That manual (page 12) expressly prohibited the setting of closing corners anywhere other than Base or Standard lines. The instructions for subdividing townships (page 23) required that the closing lines be run "range" from the original 1855 corners. This process was modified slightly in the instructions to the Surveyors General, 1854, only to require the surveyors to state the actual calculated bearing of the line in their notes. The process of setting closing corners on lines closing on accepted surveys when the closing was found to be out of tolerance was not initiated until the Manual of Instructions of 1902 section 181 on page 66 of that manual.

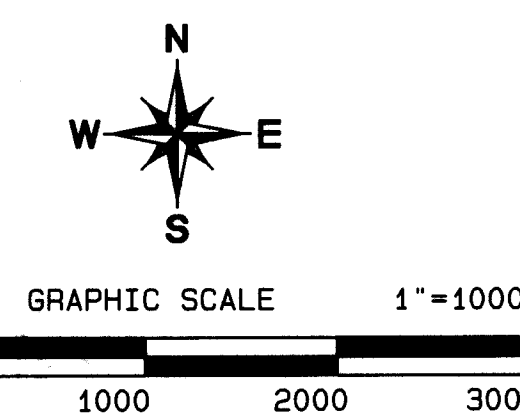
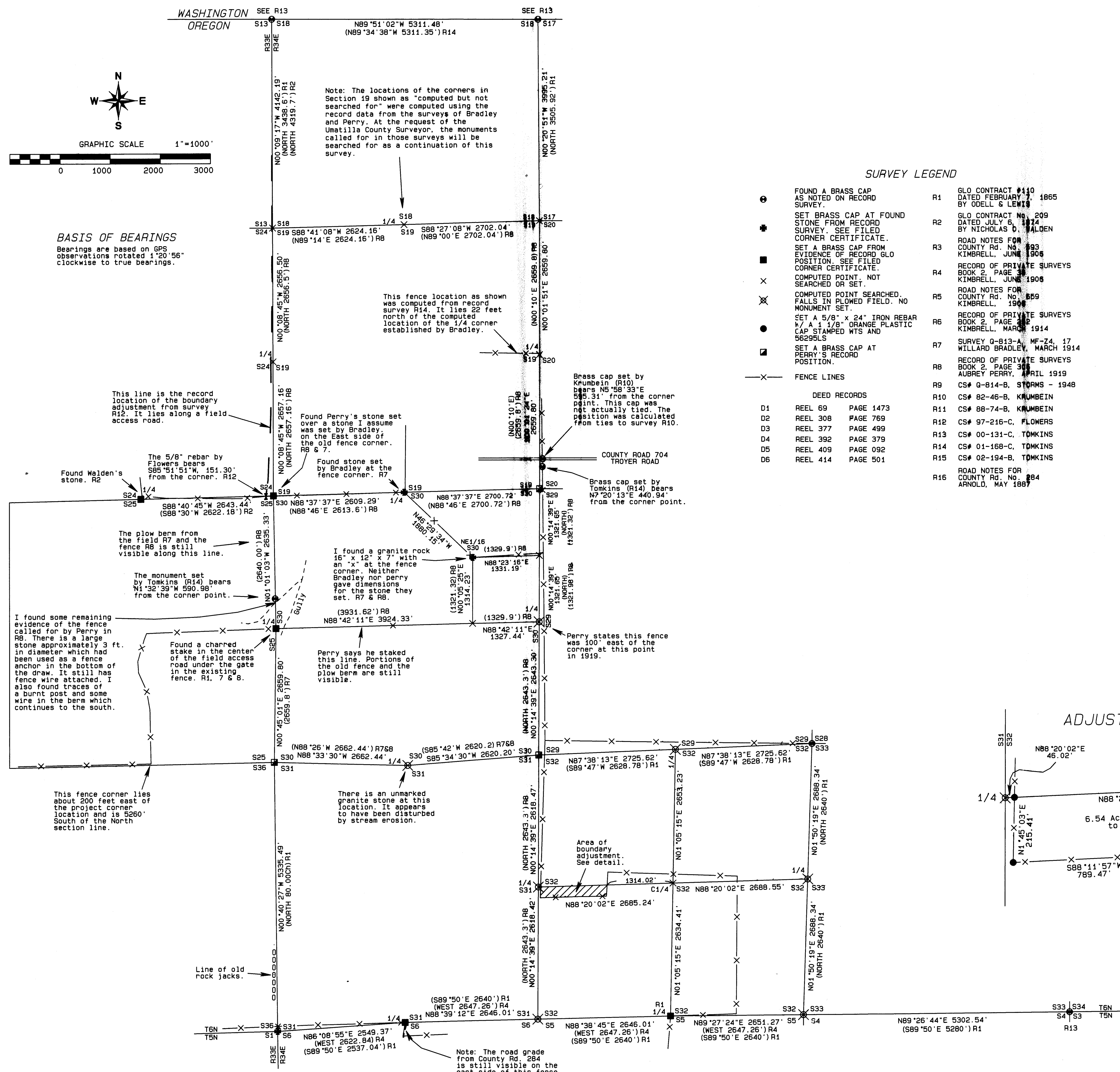
The County Surveyors, Bradley and Perry, surveyed in Sections 19 and 30, Range 34 East in the years 1914 and 1919 respectively. They found many of Odell's monuments and replaced them with stones. They also show on their maps that the corners along the range line were common to both ranges. In 1914 Mr. Bradley set a stone for the North 1/4 corner of Section 30 on line between found government "stakes". In 1919 Mr. Perry replaced the government "stake" at the northwest corner of Section 30 with a stone marked "x". In 1974 Mr. Walden set a stone for the original GLO corner at the North 1/4 corner of Section 25 Range 33 East. I found these stones and the bearing of the line between them is in agreement with the old surveys which indicates that there is only one set of corners on the range line. The fences between these corners also give possessory proof of this fact.

To reestablish the corners of Sections 19 and 30, I held the north line of Section 30 as determined by the found monuments. I projected this line to the East using Perry's record distance from the North 1/4 corner of Section 30 and established the NE corner of the section. I then held Perry's record angles and distances to calculate the remaining corners. I proportioned the corners along the south township line along the latitudinal arc by single proportion using geodetic coordinates. I computed the remaining 1/4 corners of Section 32 by single proportion using the original GLO record relationship. The corners along the east side of Section 30 fall up to 15 feet west of the existing fence. This condition was reported by Aubrey Perry in 1919 which verifies that the fence was not on the line at that time.

I did not hold the monuments set by survey 01-168-C which purported to be the West 1/4 corner and Northeast corners of Section 30. The monument set by the 2001 survey for the West 1/4 corner falls in the wrong gully from where it is shown on the 1914 survey G-813-A. The 2001 survey also said they accepted a granite stone in a mound of stones. The position of this mound is on a steep, rocky place with little soil which is in complete disagreement with the 1919 description of the corner which said it was a granite stone, marked 1/4, buried 6 inches in the center of a farm field access road. The stone accepted in the 2001 survey for the Northeast corner of Section 30 is 441 feet away from the position identified by the Bradley survey.

SURVEY LEGEND

- FOUND A BRASS CAP AS NOTED ON RECORD SURVEY.
 - SET BRASS CAP AT FOUND STONE FROM RECORD SURVEY. SEE FILED CORNER CERTIFICATE.
 - SET A BRASS CAP FROM EVIDENCE OF RECORD GLO POSITION. SEE FILED CORNER CERTIFICATE.
 - × COMPUTED POINT, NOT SEARCHED OR SET.
 - ⊗ COMPUTED POINT SEARCHED, FALLS IN PLOWED FIELD, NO MONUMENT SET.
 - SET A 5/8" x 24" IRON REBAR 1/4" x 1/8" ORANGE PLASTIC CAP STAMPED WTS AND S6295LS
 - SET A BRASS CAP AT PERRY'S RECORD POSITION.
 - FENCE LINES
- | DEED RECORDS | |
|--------------|-------------------|
| D1 | REEL 69 PAGE 1473 |
| D2 | REEL 308 PAGE 769 |
| D3 | REEL 377 PAGE 499 |
| D4 | REEL 392 PAGE 379 |
| D5 | REEL 409 PAGE 092 |
| D6 | REEL 414 PAGE 501 |
- R1 GLO CONTRACT #110 DATED FEBRUARY 7, 1855 BY ODELL & LEWIS
 - R2 GLO CONTRACT No. 209 DATED JULY 6, 1874 BY NICHOLAS O. WALDEN
 - R3 ROAD NOTES FOR COUNTY RD. No. 883 KIMBRELL, JUNE 1906
 - R4 RECORD OF PRIVATE SURVEYS BOOK 2, PAGE 38 KIMBRELL, JUNE 1906
 - R5 ROAD NOTES FOR COUNTY RD. No. 859 KIMBRELL, 1906
 - R6 RECORD OF PRIVATE SURVEYS BOOK 2, PAGE 38 KIMBRELL, MARCH 1914
 - R7 SURVEY G-813-A, MF-24, 17 WILLARD BRADLEY, MARCH 1919
 - R8 RECORD OF PRIVATE SURVEYS BOOK 2, PAGE 38 AUBREY PERRY, APRIL 1919
 - R9 CS# 0-814-B, STORMS - 1948
 - R10 CS# 82-46-B, KRUMBEIN
 - R11 CS# 88-74-B, KRUMBEIN
 - R12 CS# 97-216-C, FLOWERS
 - R13 CS# 00-131-C, TOMKINS
 - R14 CS# 01-168-C, TOMKINS
 - R15 CS# 02-194-B, TOMKINS
 - R16 ROAD NOTES FOR COUNTY RD. No. 284 ARNOLD, MAY 1887



BASIS OF BEARINGS
Bearings are based on GPS observations rotated 1°20'56\"/>

Note: The locations of the corners in Section 19 shown as "computed but not searched for" were computed using the record data from the surveys of Bradley and Perry. At the request of the Umatilla County Surveyor, the monuments called for in those surveys will be searched for as a continuation of this survey.

This fence location as shown was computed from record survey R14. It lies 22 feet north of the computed location of the 1/4 corner established by Bradley.

Brass cap set by Krumbain (R10) bears N5°58'33\"/>

Brass cap set by Tomkins (R14) bears N7°20'13\"/>

This line is the record location of the boundary adjustment from survey R12. It lies along a field access road.

Found Perry's stone set over a stone I assume was set by Bradley, on the East side of the old fence corner, RB & 7.

Found stone set by Bradley at the fence corner, R7.

The 5/8\"/>

The plow berm from the field R7 and the fence RB is still visible along this line.

The monument set by Tomkins (R14) bears N1°32'39\"/>

I found some remaining evidence of the fence called for by Perry in RB. There is a large stone approximately 3 ft. in diameter which had been used as a fence anchor in the bottom of the draw. It still has fence wire attached. I also found traces of a burnt post and some wire in the berm which continues to the south.

Found a charred stake in the center of the field access road under the gate in the existing fence, R1, 7 & 8.

I found a granite rock 16\"/>

(3931.62') RB
N88°42'11\"/>

Perry states this fence was 100' east of the corner at this point in 1919.

There is an unmarked granite stone at this location. It appears to have been disturbed by stream erosion.

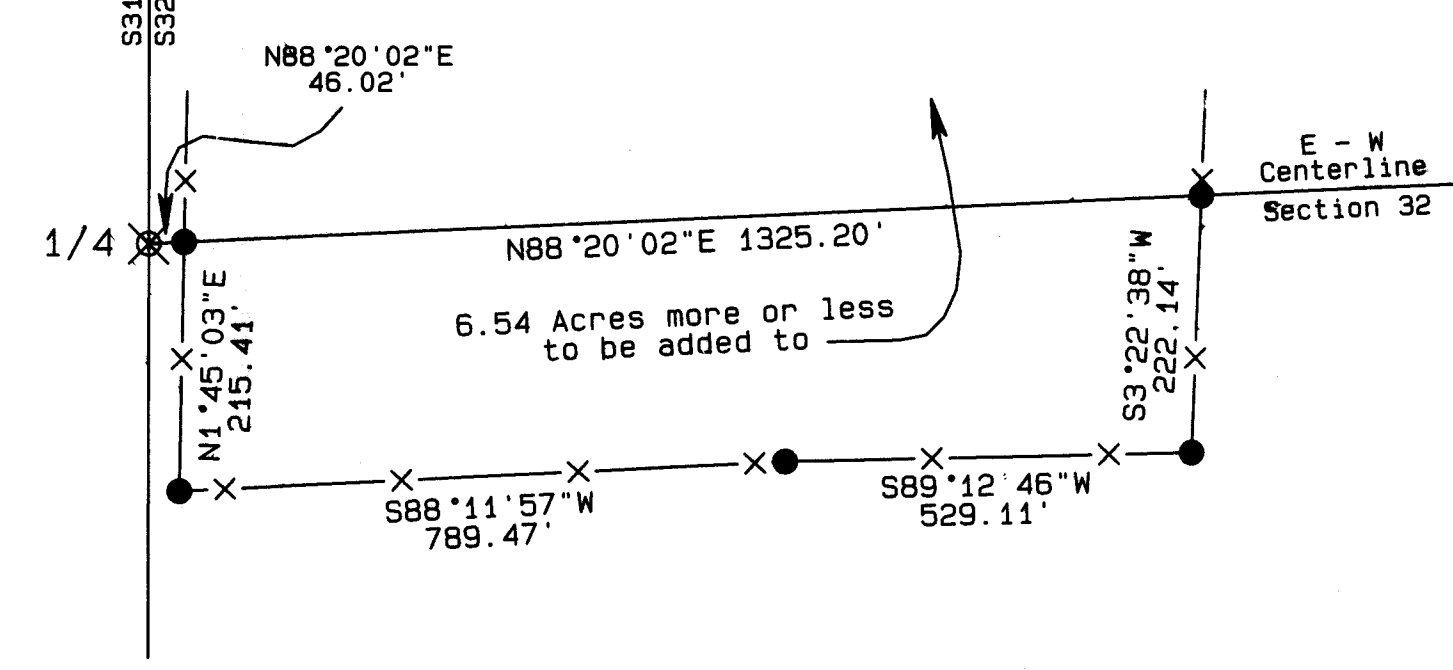
Area of boundary adjustment. See detail.

This fence corner lies about 200 feet east of the project corner location and is 5260' South of the North section line.

Line of old rock jacks.

Note: The road grade from County Rd. 284 is still visible on the east side of this fence.

ADJUSTMENT DETAIL



REGISTERED PROFESSIONAL LAND SURVEYOR
Stephen K. Haddock
OREGON
JULY 9, 2001
STEPHEN K. HADDOCK
RENEWALS 6-30-03

RECEIVED BY
Umatilla County Surveyor
Date: 12-23
Rec'd By: [Signature]
No.: 03-21-1

BOUNDARY ADJUSTMENT SURVEY FOR EURUS ENERGY AMERICA CORPORATION LOCATION: SECTIONS 18, 19, & 30 - 33, T6N, R34E AND S25 T6N, R33E.	PROJECT No. 02-04	DATE: DECEMBER 2002
	MONUMENTS SET: DECEMBER 10 & 11, 2002.	
WITNESS TREE SURVEYING Stephen K. Haddock, PLS P.O. Box 6 Pilot Rock, Oregon 97868 (541) 443-2932		