

SURVEY FOR: Samuel L. McDaniel

SURVEY BY: Douglas M. Ferguson, P.L.S. 848
D. Mitchell Ferguson, Party Chief
Rick Saul, Surv. Tech.

REVIEWED BY: Susan E. Newstetter, P.L.S. 2405

DRAWN BY: Kenneth H. Delano Jr., Computer Specialist

HISTORY OF SURVEYS

1869, J.B. David established the south boundary of T.12S., R.30E., W.M., under General Land Office Contract No. 131.

1881, S.W. Lackland subdivided and established the west boundary of T.12S., R.30E., W.M., under General Land Office Contract No. 415.

1958- Howard E. Taylor, P.E. 2891, searched for and found some corners in T.12S., R.30E., and perpetuated such corners by scribing new bearing trees, constructing stone mounds and in some cases replacing destroyed corner stones. His notes are on file in the office of the Grant County Surveyor.

1983, Douglas M. Ferguson, PLS 848, retraced the exteriors of Section 31, T.12S., R.30E., and re-established the section corners and 1/4 section corners as shown on Grant County Map of Survey No. 785.

NARRATIVE

The purpose of this survey was to identify the E1/2NW1/4 of Section 31, T.12S., R.30E., W.M., at the request of Samuel L. McDaniel.

Prior to conducting this survey, the Grant County records were researched for all information pertaining to this survey.

In 1983 I conducted a survey around the exterior of this subject Section 31, during the course of a survey I performed for the Malheur National Forest (Hancock Cadastral, Grant County Map of Survey No. 785). During the course of the 1983 survey I recovered original evidence at the 1/4 section corner of S31|S32 and the township corner S36|S31 and remonumented those corners.

Due to extensive loss, all of the other section and 1/4 section corners were re-established by proportionment measure and monumented with the exception of the 1/4 section corner of S31, of S 6

which I showed it's calculated position on my map of survey. As shown on my 1983 map of survey, my proportioned positions along the south boundary of T.12S., R.30E., were established on the latitudinal curve.

During the course of this survey, I established the following corners: C1/4 S31; C--C W 1/16 S31; W 1/16 S30 and re-established S31

the 1/4 section corner S31, using my previous map of survey as a S 6

The notes shown on this map should be considered a substantial part of this "NARRATIVE" as they contain the detailed information as to the methods used to establish or re-establish the corners shown on this map of survey.

Position control for this survey was provided by a closed traverse network. A Lietz SDM3E semi-total station was used to obtain measurements and field set the monuments from the control survey. An IBM compatible PC, utilizing Wildsoft software was used to perform the calculations. This map of survey was prepared utilizing Autocad v.10. The basis of bearing for this survey was determined from my 1983 survey, Grant County Map of Survey No. 785. The field notes and computations for this survey are on file at the office of Ferguson Surveying and Engineering, Mt. Vernon, Oregon 97865.

Aug. 22, 1991
DOUGLAS M. FERGUSON, PLS 848
President, Ferguson Surveying and Engineering
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Mt. Vernon, Oregon 97865
(503) 932-4520

REGISTERED
PROFESSIONAL
LAND SURVEYOR

OREGON
JULY 12, 1988
DOUGLAS M. FERGUSON
848

CERTIFIED RECORD OF LAND CORNER MONUMENTATION

History of original corner establishment:

This corner was established in 1869, by J.B. David under General Land Office Contract No. 131. The Surveyor General's Notes state:

Set stone 16x8x7 for 1/4 sec. corner

Description of Corner Evidence Found:

No evidence was found. An E-W fence and NE-SW primitive road runs through the search area. Extensive activity in the area has destroyed the evidence.

Re-established this corner's position using proportionment measure allowing for latitudinal curvature.

Description of monument and accessories I established to perpetuate the original location of this corner:

Set 2-1/2"x30" aluminum pipe with 3-1/2" aluminum cap, stamped as shown in the DIAGRAM, 28" in the ground.

From Which:

A 5/8" x 30" iron pin, set 27" in the ground, with yellow plastic cap marked PLS 848, bears N42°16'W, 9.7 ft.

A Juniper, 10" in dia., bears N71°19'E, 92.4 ft., scribed: 1/4 S31 BT

A Juniper, 12" in dia., bears S37°41'E, 306.7 ft., scribed: 1/4 S6 BT

A 5/8" x 30" iron pin, set 28" in the ground, with yellow plastic cap marked PLS 848, bears S48°32'W, 11.3 ft.

Measurements to BT's taken with an Electronic Tacheometer with bearings based on the survey control network.

History of original corner establishment:

None. Corner established this survey.

Description of Corner Evidence Found:

None. Corner established this survey.

Description of monument and accessories I established to perpetuate the original location of this corner:

Set 2-1/2"x30" aluminum pipe with 3-1/2" aluminum cap, stamped as shown in the DIAGRAM, 18" in the ground and raised a mound of stone around the monument.

From Which:

A Juniper, 10" dia., bears N04°30'W, 31.4 ft., scribed: C1/4 S31 BT

A Juniper, 7" dia., bears N58°45'E, 19.1 ft., scribed: C1/4 S31 BT

A Juniper, 7" dia., bears S33°15'E, 34.7 ft., scribed: C1/4 S31 BT

A P. Pine, 8" dia., bears N84°45'W, 34.9 ft., scribed: C1/4 S31 BT

Measurements to BT's taken with an Electronic Tacheometer with bearings based on the survey control network.

History of original corner establishment:

None. Corner established this survey.

Description of Corner Evidence Found:

None. Corner established this survey.

Description of monument and accessories I established to perpetuate the original location of this corner:

Set 2-1/2"x30" aluminum pipe with 3-1/2" aluminum cap, stamped as shown on the DIAGRAM, 12" in the ground and raised a mound of stone 3 ft. in diameter, 1 1/2 ft. high around the monument.

From Which:

A Juniper, 10" dia., bears N81°30'W, 8.6 ft., scribed: W1/16 S30 BT

A Juniper, 10" dia., bears S26°15'E, 49.4 ft., scribed: W1/16 S31 BT

Measurements to BT's taken with an Electronic Tacheometer with bearings based on the survey control network.

History of original corner establishment:

None. Corner established this survey.

Description of Corner Evidence Found:

None. Corner established this survey.

Description of monument and accessories I established to perpetuate the original location of this corner:

Set 2-1/2"x30" aluminum pipe with 3-1/2" aluminum cap, stamped as shown on the DIAGRAM, 5" in the ground and raised a mound of stone 4 ft. in diameter, 2 1/2 ft. high around the monument.

From Which:

A Juniper, 14" dia., bears N72°30'E, 20.0 ft., scribed: C-W 1/16 S31 BT

A Juniper, 8" dia., bears S51°30'E, 46.6 ft., scribed: C-W 1/16 S31 BT

Measurements to BT's taken with an Electronic Tacheometer with bearings based on the survey control network.

DIAGRAM
T12S R30E
S 31
1/4
S 6
T13S
1991
PLS 848

DIAGRAM
T12S R30E
C 1/4
S31
1991
PLS 848

DIAGRAM
T12S R30E
S 30
W 1/16
S 31
1991
PLS 848

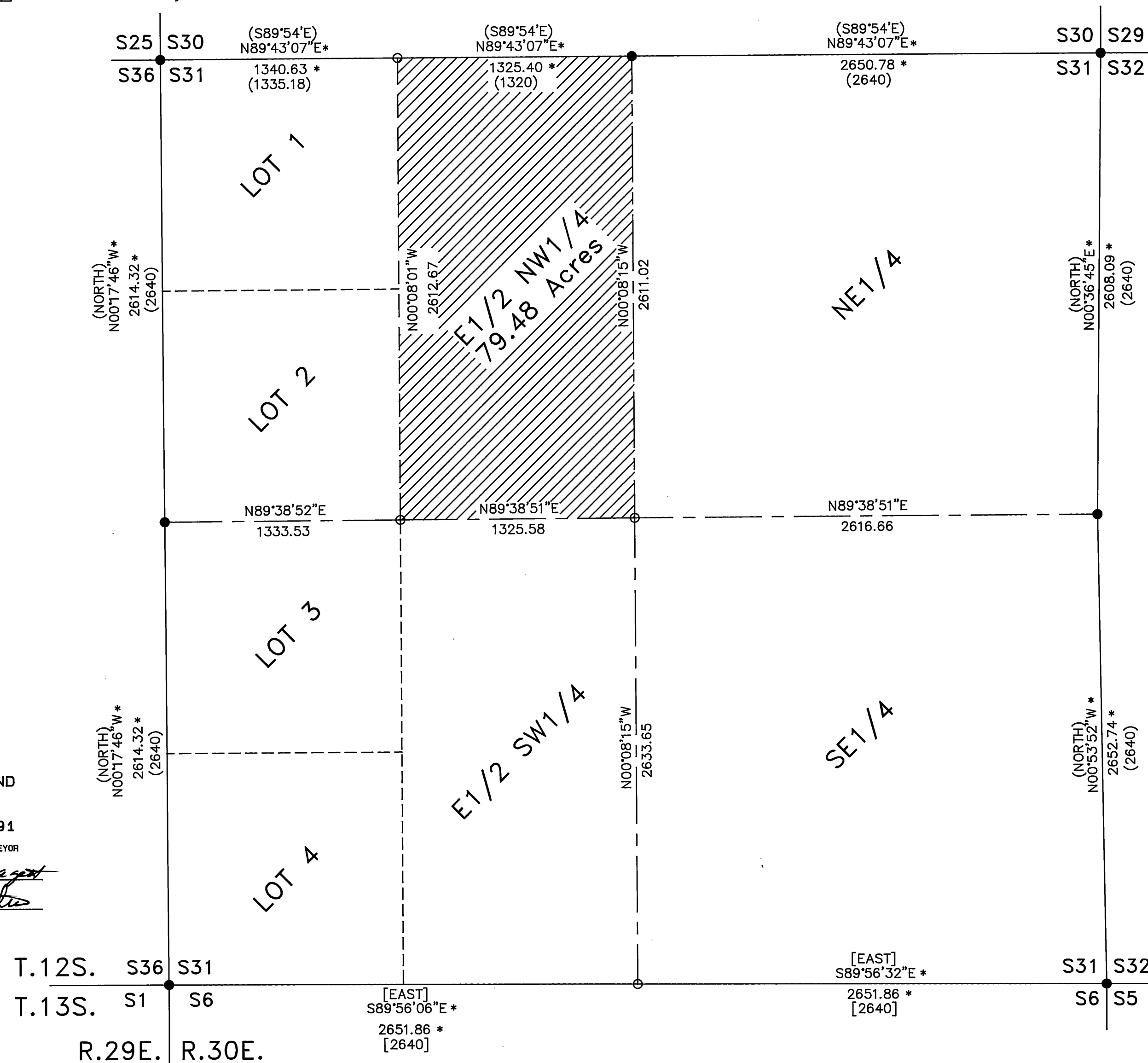
DIAGRAM
T12S R30E
W 1/16
C 1/4
S31
1991
PLS 848

T.12S. R.30E.
E1/2 NW1/4
SECTION 31

LEGEND

- Found aluminium cap monument and accessories as set by Douglas M. Ferguson, P.L.S. 848. See Grant County Map of Survey No. 785
- Set 2-1/2"x30" aluminium pipe with 3-1/2" aluminium cap
- * Bearing and Distance as returned this survey and on Grant County Map of Survey No. 785
- [] Bearing and Distance as reported by J.B. David in 1869 under General Land Office Contract No. 131
- () Bearing and Distance as reported by S.W. Lackland in 1881 under General Land Office Contract No. 415.

- Exterior Section Lines
- - - Center Section Lines
- - - Subdivisional Section Lines
- - - - - Sketch of Lot Lines, not surveyed
- ▨ Determined this survey



Ferguson Surveying

Engineering

MT. VERNON, OREGON
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FAX (503) 932-4430

DECLINATION 20° EAST

500 0 500 1000 1500
Scale: 1"=500'

BASIS OF BEARING
GRANT COUNTY MAP OF SURVEY No. 785

RECEIVED AND
FILED

SEPT. 27, 1991
OFFICE OF COUNTY SURVEYOR

Robert D. Beyer
ATTEST: *John W. Dutton*

GRANT COUNTY MAP OF SURVEY No. 1185