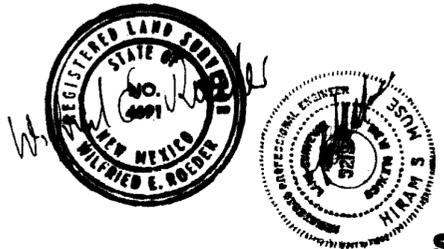
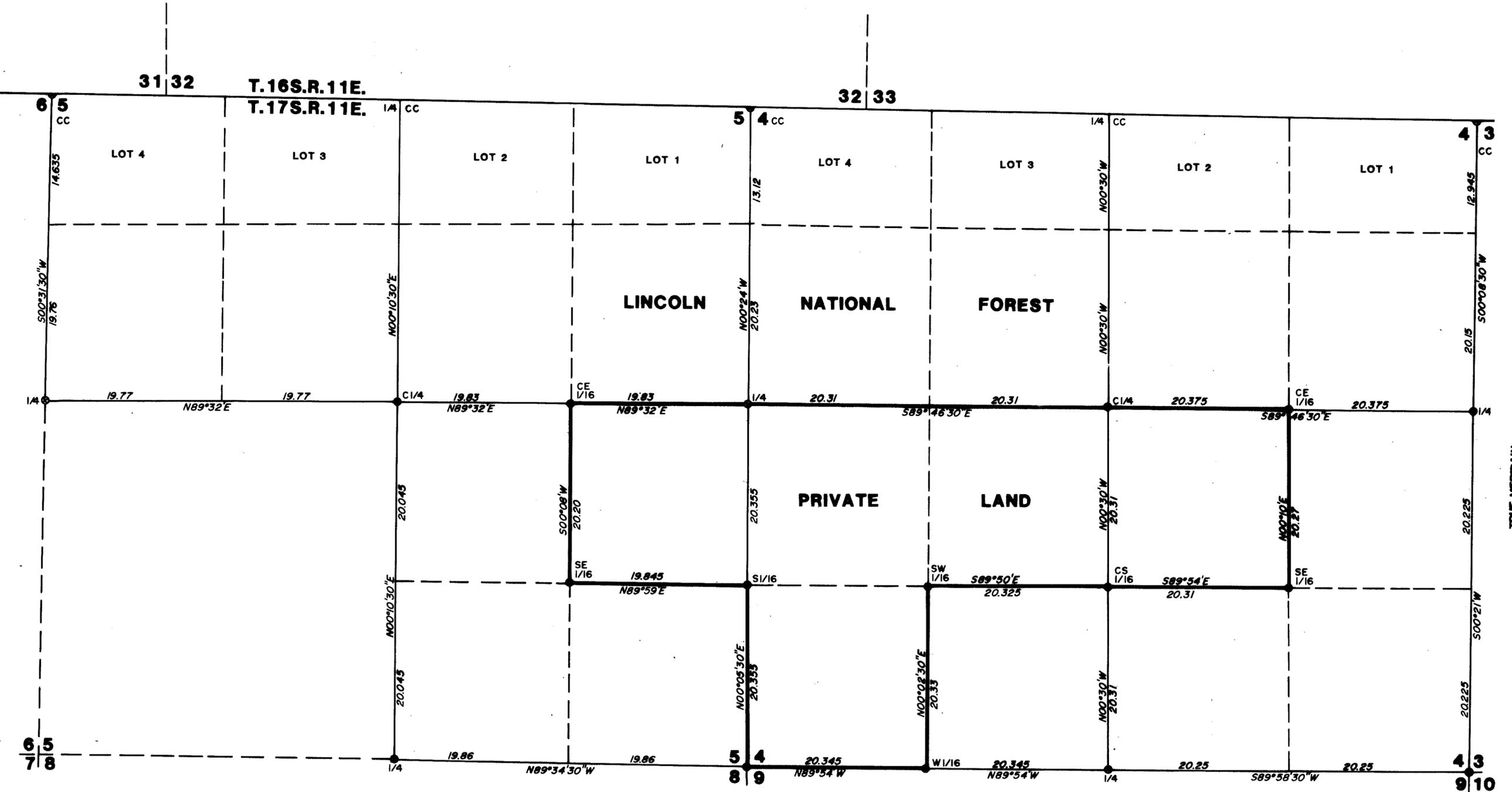


5

# RETRACEMENT, SUBDIVISION AND MONUMENTATION OF SECTIONS 4 AND 5, A PORTION OF THE LINCOLN NATIONAL FOREST PROPERTY LINES

SITUATED IN T.17S. R.11E. N.M.P.M.. OTERO COUNTY, NEW MEXICO



PLAT PREPARED BY  
**Martinez/Naylor & Associates**  
REGISTERED PROFESSIONAL ENGINEERS AND SURVEYORS

U.S. DEPARTMENT OF AGRICULTURE  
**FOREST SERVICE**  
 SOUTHWESTERN REGION, ALBUQUERQUE, NEW MEXICO

RECORD OF SURVEY

W.E.R.

# RETRACEMENT, SUBDIVISION AND MONUMENTATION OF SECTIONS 4 AND 5, A PORTION OF THE LINCOLN NATIONAL FOREST PROPERTY LINES SITUATED IN T.17S. R.11E. N.M.P.M. OTERO COUNTY, NEW MEXICO

Survey Commenced March 17, 1981  
 Survey Completed April 4, 1982

**CERTIFICATION**

This plat represents a record of the Retracement Survey, subdivision and monumentation of Sections 4 & 5, T.17 S., R.11 E., N.M.P.M., Otero County, New Mexico, which constitutes a portion of the property lines of the Lincoln National Forest.

The original survey of Section 4 was made by Jay Turley, U.S. Deputy Surveyor in 1902 and 1903. The original survey of Section 5 was made by Lee S. Miller, Examiner of Surveys of the U.S. General Land Office in 1910. These surveys are a record of the Bureau of Land Management in Santa Fe.

This Retracement Survey, subdivision, monumentation and record thereof was made as a result of a Memorandum of Understanding\* between the City of Alamogordo and the Supervisor, Lincoln National Forest and is intended for their exclusive use. \*dated 12-11-1980

The subdivision of Sections 4 and 5 was made by Hiram S. Muse, Registered Professional Engineer and Land Surveyor acting in behalf of the City of Alamogordo and was based on a retracement survey made by Wilfried E. Roeder, Registered Land Surveyor, Lincoln National Forest.

We, Hiram S. Muse and Wilfried E. Roeder hereby certify that this retracement survey, subdivision, monumentation and record thereof was made by us or our assistants under our supervisory direction and is true and correct to the best of our knowledge.

*Hiram S. Muse*  
 Hiram S. Muse, P.E. & L.S. #5219

*Wilfried E. Roeder*  
 Wilfried E. Roeder, L.S. #4691



Commence this survey at the Closing Corner of Sections 3 and 4 as evidenced by a limestone firmly set, proj. 6 x 14 x 12 ins. above ground, marked with 3 grooves on east and 3 grooves on west faces, CC on south face,

20.25 Proportional distance for E 1/16 corner, not monumented.  
 40.50 (record: 40.00) at which point

Intersect the 1/4 section corner of Sections 4 and 9 as evidenced by a limestone firmly set, proj. 4" x 12" x 8" above ground, mkd. 1/4 on north face and a + on top, a mound of stone alongside,

from which original bearing trees  
 A pine, 16 ins. diam., dead and down, blazed, markings illegible. Place where tree stood bears S12°E, 66 lks. dist., (record) Attach FS sign 54-3.  
 A fir, 26 ins. diam., bears S85°W, 124 lks. dist., (record), markings illegible. Attach FS sign 54-3.

Drive a steel post with FS sign 54-4 attached alongside mkd.

CHAINS Stone.  
 00.00 Thence  
 S 00°08'30" W (record: S 0°01' E)  
 Between Sections 3 and 4, north 1/2 mile.  
 12.945 (record: 12.85), southeast corner of lot 1, not monumented  
 33.095 (record: 32.85) at which point

Intersect the 1/4 section corner of Sections 3 and 4 as evidenced by the remains of the original stone and an aluminum post, 2 1/2 ins. diam., proj. 8 ins. above ground, with cap mkd.

from which the remains of original bearing trees  
 A pine, 10 ins. diam., dead and down, portion of blaze legible. Place where tree stood bears N 30 3/4° W, 11 lks. dist. (record)  
 A fir, 8 ins. diam., dead and down, mkd. 1/4 S3BT. Place where tree stood bears S 11° E, 76 lks, dist. (record)

Bearing trees marked in 1977  
 An alligator juniper, 10 ins. diam., bears N 46° W, 19 lks. dist., mkd. 1/4 S4BT. Sign 54-3 attached.  
 A douglas fir, 10 ins. diam., bears S 8 1/2° E, 27 1/2 lks. dist., mkd. 1/4 S3BT. FS sign 54-3 attached.

Drive a steel post with FS sign 54-4 attached alongside corner.

00.00 Thence  
 S 00°21' W (record S 0°01' E)  
 Between Sections 3 and 4, south 1/2 mile.  
 20.225 Proportional distance for S 1/16 corner, not monumented.  
 40.45 (record: 40.00) at which point

Intersect the corner of Sections 3, 4, 9 and 10 as evidenced by a limestone firmly set, proj. 6 x 8 x 12 ins. above ground, mkd. with 5 grooves on south and 3 grooves on east faces, a mound of stone alongside

from which an original bearing tree  
 A pine stump, 18 ins. diam., 8 ft. high, bears S 73 3/4° W, 230 lks. dist. (record) mkd. T17SR11ES9BT. FS sign 54-3 attached. BT in section 4 not found.

00.00 Thence  
 S 89°58'30" W (record: West)  
 Between Sections 4 and 9, east 1/2 mile.

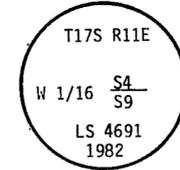
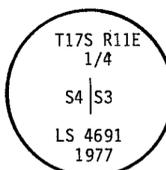
Proportional distance for E 1/16 corner, not monumented.  
 (record: 40.00) at which point

Intersect the 1/4 section corner of Sections 4 and 9 as evidenced by a limestone firmly set, proj. 4" x 12" x 8" above ground, mkd. 1/4 on north face and a + on top, a mound of stone alongside,

from which original bearing trees  
 A pinon, 8 ins. diam., dead and down, mkd. 1/4 S9BT. Place where tree stood bears S 6° E, 17 lks. dist. (record). Attach FS sign 54-3.  
 A pinon, 12 ins. diam., dead and down, markings illegible. Place where tree stood bears N 48° W, 28 lks. dist. (record). Attach FS sign 54-3.

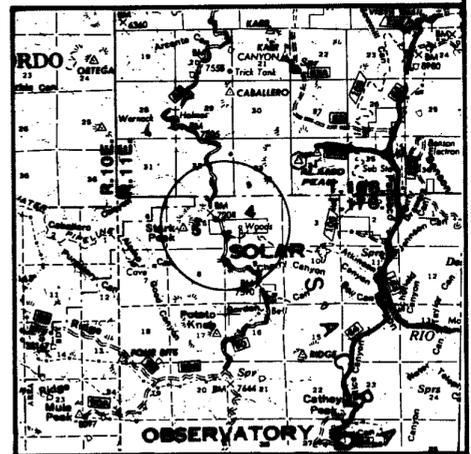
Attach FS sign 54-4 to pinon, 4 ins. diam., N 27° E, 13 lks. dist.

Thence  
 N 89°54' W (record: West)  
 Between Sections 4 and 9, west 1/2 mile.  
 20.345 Proportional distance for W 1/16 corner, at which point,  
 Set an aluminum post, 30 ins. long, 27 ins. in ground, with cap mkd.



**LEGEND**

- CORNER REMONUMENTED OR MONUMENTED . . . . . ●
- FOUND G.L.O. BRASS CAP OR B.L.M. BRASS CAP . . . . . ⊙
- FOUND USDA-FS MONUMENT . . . . . ●
- FOUND EVIDENCE BELIEVED ACCEPTABLE . . . . . ⊙
- REBAR . . . . . ○
- NATIONAL FOREST BOUNDARY . . . . . ———
- PORTION OF SURVEY . . . . . ———
- EXISTING RIGHT OF WAY . . . . . ———
- EXISTING CENTERLINE OF ROAD . . . . . - - - - -
- ORIGINAL SURVEY LINE NOT INCLUDED IN THIS SURVEY . . . . . - - - - -
- NATIONAL FOREST BOUNDARY, NOT A PORTION OF THIS SURVEY. . . . . ———



**NOTE:**

This survey was executed in accordance with the instructions set forth in the BLM "Manual of Instructions for the Survey of the Public Lands of the United States - 1973". The direction of lines was determined by angular measurement from an initial bearing obtained by direct solar observation at the corner of Sections 4, 5, 8 and 9. Distances were measured in feet and converted to chains to the nearest 1/2 link.

All corners established as a result of this survey were monumented with an aluminum post, 2 1/2 ins. diam., 30 ins. long, with Forest Service magnetic cap and base.

(record) refers to the original surveys.

**FOREST SERVICE SIGN DESIGNATION:**

54-2 PROPERTY BOUNDARY  
 54-3 BEARING TREE  
 54-4 ATTENTION  
 54-9 LAND SURVEY MONUMENT

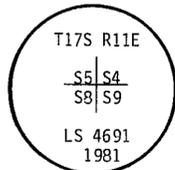
PLAT PREPARED BY  

 Martinez/Naylor & Associates  
 1111 S. COMMERCE, N.E. - ALBUQUERQUE, NEW MEXICO 87102 - (505) 261-8187

U.S. DEPARTMENT OF AGRICULTURE  
**FOREST SERVICE**  
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**RECORD OF SURVEY**

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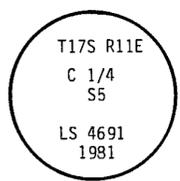
40.690 Continue N 89°54' W  
 (record: 40.00) at which point  
 Intersect the corner of Sections 4, 5, 8 and 9, as evidenced by a limestone firmly set, proj. 10 x 8 x 4 ins. above ground, marked with 5 grooves on south and 4 grooves on east faces  
 from which original bearing trees  
 A pinon, 16 ins. diam., bears S 46½° E, 175 lks. dist. (record) with an almost closed blaze, scribing visible.  
 An alligator juniper, 36 ins. diam., bears N 20 3/4° W, 312 lks. dist., (record) mkd. T17SR11ES5BT.  
 An oak stump, 10 ins. diam., 4 ft. high, hollow, bears N 64½° E, 60 lks. dist. (record) markings rolled off.  
 In place of marked stone  
 Set an aluminum post, 30 ins. long, 20 ins. in ground, with cap mkd.



from which new bearing trees  
 A pinon, 10 ins. diam., bears N 40° W, 53 lks. dist., mkd. S5BT.  
 A ponderosa pine, 16 ins. diam., bears N 5° E, 38½ lks. dist., mkd. S4BT.  
 A pinon, 10 ins. diam., bears S 60° W, 48½ lks. dist., mkd. S8BT.  
 A pinon, 6 ins. diam., bears S 56° E, 12 lks. dist., mkd. S9BT

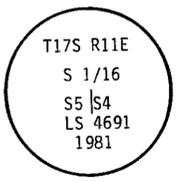
Attach FS signs 54-3 to all bearing trees.  
 Drive a steel post with FS signs 54-2 and 54-9 attached alongside aluminum post and bury mkd. stone alongside.  
 00.00 Thence  
 N 89°34'30" W (record: West)  
 Between Sections 5 and 8, east 1/2 mile.  
 19.86 Proportional distance for E 1/16 corner, not monumented  
 39.72 (record: 40.00) at which point  
 Intersect the 1/4 corner of Sections 5 and 8 as evidenced by a limestone firmly set, proj. 6 x 12 x 1 ins. above ground, mkd. 1/4 on north face, a mound of stone alongside.  
 No bearing trees of record.  
 Drive a steel post with FS sign 54-4 attached 2½ ft. east of mkd. stone.  
 00.00 Thence  
 N 00°10'30" E  
 Along the meridional centerline of Section 5

20.045 Proportional distance for C-S 1/16 corner, not monumented.  
 40.090 Intersect the latitudinal centerline at which point  
 Set an aluminum post, 30 ins. long, 17 ins. in ground, with cap mkd.



from which  
 A pinon, 8 ins. diam., bears N 6° E, 16 lks. dist., mkd. XBT. Attach FS sign 54-3.  
 A pinon, 5 ins. diam., bears S 25° W, 12 lks. dist., mkd. XBT. Attach FS sign 54-3.

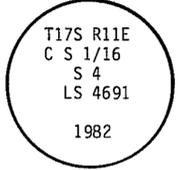
Build a mound of stone 3 ft. at the base around corner post to top of cap.  
 Continue N 00°10'30" E to midpoint between Closing Corners on north boundary of Section 5, not monumented.  
 Return to the corner of Sections 4,5, 8 and 9, previously described.  
 00.00 Thence  
 N 00°05'30" E (1910 record: N 0°04' E)  
 Between Sections 4 and 5, south 1/2 mile.



20.355 Proportional distance for S 1/16 corner at which point  
 Set an aluminum post, 30 ins. long, 25 ins. in ground, with cap mkd.

from which  
 A juniper, 10 ins. diam., bears S 67° E, 13 lks. dist., mkd. S4BT. Attach FS signs 54-3 and 54-9.  
 Continue N 00°05'30" E  
 40.710 (1910 record: 41.08) at which point  
 Intersect the 1/4 section corner of Sections 4 and 5 as evidenced by a red sandstone, firmly set, proj. 5 x 5 x 12 ins. above ground, mkd. 1/4 on west face, a mound of stone alongside,  
 from which original bearing trees  
 A pinon, 14 ins. diam., bears S 3½° W, 14 lks. dist., (record) mkd. 1/4 S5BT. Attach FS sign 54-3.  
 A pinon, 10 ins. diam., bears S 45 3/4° E, 22 lks. dist., (record) mkd. 1/4 S4BT. Attach FS sign 54-3.

00.00 Drive a steel post with FS signs 54-2 and 54-4 attached 2½ ft. east of corner.  
 Thence  
 N 00°24' W (1910 record: N 01°25' W)  
 Between Sections 4 and 5, north 1/2 mile.  
 20.23 Proportional distance for N 1/16 corner, not monumented.  
 33.35 (1910 record: 33.74) at which point  
 Intersect the Closing Corner of Sections 4 and 5 as evidenced by a sandstone firmly set, proj. 8 x 10 x 8 ins. above ground, marked with 2 grooves on west and 4 grooves on east faces, CC on south face, a mound of stone alongside  
 from which an original bearing tree  
 A pinon, 7 ins. diam., dead and down, mks. illegible. Place where tree stood bears S 32 3/4° W, 108 lks. dist. (record) Attach FS sign 54-3.  
 Other bearing tree not found.  
 Return to the 1/4 section corner of Sections 4 and 9 previously described.  
 00.00 Thence  
 N 00°30' W, along the meridional centerline of Section 4.  
 20.31 Proportional distance for C-S 1/16 corner at which point  
 Set an aluminum post, 30 ins. long, 26 ins. in ground, with cap mkd.



from which  
 A pine stump, 9 ins. diam., 2 ft. high, bears S 87° W, 42 lks. dist., mkd. XBT. Attach FS sign 54-3.  
 Drive a steel post with FS signs 54-2 and 54-9 attached alongside monument.

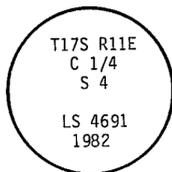


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40.62 Continue N 00°30' W  
Intersect the latitudinal centerline of section 4 at which point  
Set an aluminum post, 30 ins. long, 21 ins. in ground, with cap mkd.



from which  
A pinon, 6 ins. diam., bears N 46° W, 40½ lks. dist., mkd.  
XBT. Attach FS sign 54-3.  
A juniper, 5 ins. diam., bears N 43° E, 15 lks. dist., mkd.  
XBT. Attach FS sign 54-3.

Continue N 00°30' W to midpoint between Closing Corners on north boundary of section 4, not monumented.

At the Closing Corner of Sections 5 and 6 on north boundary of T17SR11E, as evidenced by a granite stone firmly set, proj. 6" x 10" x 14" above ground, marked with 5 grooves on east and 4 grooves on west faces, CC on south face.

No bearing trees of record.

00.00 Thence  
S 00° 31'30" W (record: S 0°02' E)  
Between Sections 5 and 6, north 1/2 mile.

14.635 Proportional distance for southwest corner of lot 4, not monumented.  
34.395 (record: 34.81) at which point

Intersect the 1/4 section corner of Sections 5 and 6 as evidenced by a sandstone meas. 6 x 11 x 13 ins., mkd. 1/4, fallen on its side alongside old mound of stone. Set mkd. stone upright, 1/4 facing west.

No bearing trees of record.

Mark a new bearing tree  
A pinon, 7 ins. diam., bears N 41° W, 36 lks. dist., mkd. 1/4 S6BT. Attach FS sign 54-3.

00.00 Thence  
N 89°32' E

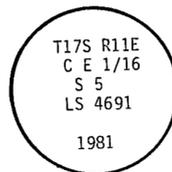
Along the latitudinal centerline of Section 5.

19.77 Proportional distance for C-W 1/16 corner, not monumented.

39.54 Intersect the C1/4 corner previously described.

59.37 Proportional distance for C-E 1/16 corner at which point

Set an aluminum post, 30 ins. long, 24 ins. in ground, with cap mkd.



from which  
A pinon, 12 ins. diam., bears S 65° W, 53 lks. dist., mkd.  
XBT. Attach FS sign 54-3.  
A pinon, 5 ins. diam., bears N 23° E, 29½ lks. dist., mkd.  
XBT. Attach FS sign 54-3

Drive a steel post with FS signs 54-2 and 54-9 attached alongside monument.

Continue N 89°32' E

79.20 At which point

Intersect the 1/4 section corner of Sections 4 and 5, previously described.

00.00 Thence

S 89°46'30" E

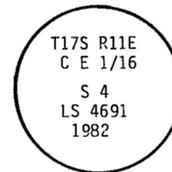
Along the latitudinal centerline of section 4.

20.31 Proportional distance for C-W 1/16 corner, not monumented.

40.62 Intersect the C 1/4 corner previously described.

60.995 Proportional distance for C-E 1/16 corner at which point

Set an aluminum post, 30 ins. long, 18 ins. in ground, with cap mkd.



from which  
A ponderosa pine, 24 ins. diam., bears N 23° E, 22½ lks. dist., mkd. XBT. Attach FS sign 54-3.  
A ponderosa pine, 14 ins. diam., bears S 46° E, 57½ lks. dist., mkd. XBT. Attach FS sign 54-3.

Build a mound of stone 2 ft. base around the monument to top of cap.

Continue S 89°46'30" E

81.37 At which point

Intersect the 1/4 section corner of Sections 3 and 4, previously described.

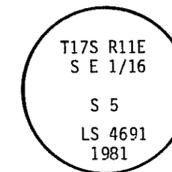
Return to the C-E 1/16 corner of Section 5, previously described.

00.00 Thence

S 00°08' W

20.20 Along the meridional centerline of the SE 1/4 of Section 5.  
Intersect the latitudinal centerline of the SE 1/4 at which point

Set an aluminum post, 30 ins. long, 26 ins. in ground, with cap mkd.



from which  
An oak, 11 ins. diam., bears S 17° W, 77 lks. dist., mkd.  
XBT. Attach FS sign 54-3.  
An oak, 10 ins. diam., bears N 22° W, 22½ lks. dist., mkd.  
XBT. Attach FS sign 54-3.

00.00 Thence

N 89°59' E, along the latitudinal centerline of the SE 1/4.

19.845 At which point

Intersect the S 1/16 corner of Sections 4 and 5, previously described.

Return to the W 1/16 corner of Sections 4 and 9, previously described.

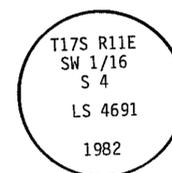
00.00 Thence

N 00°02'30" E

Along the meridional centerline of the SW 1/4 of Section 4.

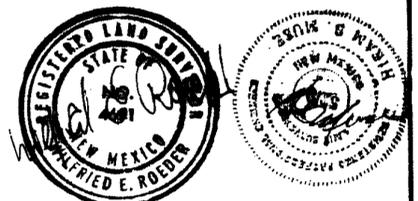
20.33 Intersect the latitudinal centerline of the SW 1/4 at which point

Set an aluminum post, 30 ins. long, 26 ins. in ground, with cap mkd.



from which  
A pinon, 12 ins. diam., bears S 39° E, 106½ lks. dist., mkd.  
XBT. Attach FS sign 54-3.

Drive a steel post with FS signs 54-2 and 54-9 attached alongside monument.



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