

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

FIELD NOTES

OF THE

DEPENDENT RESURVEY

OF SECTIONS 28 AND 31

TOWNSHIP 16 SOUTH, RANGE 22 EAST

Of the SAN BERNARDINO Meridian,

In the State of ARIZONA

EXECUTED BY

Paul G. Bauer, Surveying Technician

Robert C. Yundt, Cadastral Surveyor, (Chief of Party)

Under special instructions dated September 15, 1960, which provided
for the surveys included under Group No. 355, approved September 22, 1960
and assignment instructions dated September 26, 1960

Survey commenced January 6, 1961

Survey completed January 16, 1961

BOOK 4591

INDEX DIAGRAM

Township 16 SOUTH, Range 22 EAST

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Township 16 South, Range 22 East, San Bernardino Meridian, Arizona

Chains

The original survey of the exterior lines of Township 16 South, Range 22 East, San Bernardino Meridian, Arizona was made by H. Poole, Deputy Surveyor in 1855, and the township was subdivided by J. LaCroze, Deputy Surveyor in 1856. As originally surveyed the township extended across the Colorado River into California. In 1959 Robert C. Yundt, Cadastral Surveyor, executed a dependent resurvey and extension survey in sections 29 and 30 and surveyed fractional section 19, all on the left side of the Colorado River as it existed then. The following field notes are those of a dependent resurvey of sections 31 and 28, with the revision of part of the latter section to conform to the present left bank of the river. The present field work is being done at the request of the Bureau of Reclamation in order to define the public lands.

The dependent resurvey is a restoration of the lines of the original survey in their true original positions according to the identified evidence of that survey. Before remonumenting an original corner position, or restoring a lost corner, the lines of the original survey were retraced and searches made for the original corner monuments and other calls of the field notes, and for collateral evidence of later date. After completing the necessary retracements and searches, the rules of proportionate measurement were applied, or record positions used in those cases where no opposite corner was found, in order to ascertain the position of each lost corner, and when duly identified or restored the corner positions were monumented with iron posts. In order to simplify the record only the true line notes, referring to the completed resurvey are supplied here.

The geographic position of the corner of Township 16 South, Ranges 21 and 22 East, determined from the data contained on the quadrangle sheet of the U. S. Geological Survey is as follows: Latitude $32^{\circ} 43' 12''$ N. and longitude $114^{\circ} 42' 12''$ W. The mean magnetic declination was found to be $14^{\circ} 30'$ East.

The resurvey was executed with W. & L. E. Gurley solar transit No. 541331, the property of the Bureau of Land Management and constructed in accordance with their standard specifications. The direction of the lines of the resurvey were determined by reference to altitude observations on the sun or hour angle observations on Polaris, made on line during the field work. The lines were carried forward as transit lines and checked by succeeding observations. The measurements were made with Chicago steel ribbon tapes, eight chains in length. These tapes were graduated every link for the first chain and thereafter at intervals of ten links. The tapes were tested by comparison with a Lufkin steel standard tape, one chain in length and found to be correct. The measurements were made on the slope, the vertical angle of each interval determined by the use of clinometers, and the slope distances properly reduced to horizontal equivalents for use in these notes.

Dependent Resurvey of a Portion of South Boundary, T. 16 S., R. 22 E.

Reestablishment of the Surveys Executed by H. Poole in 1855.

The corner of Sections 31 and 32 on the South Boundary of the township and the old International Boundary is marked by a U. S. Bureau of Reclamation brass tablet, seated in concrete and marked:

T16S R22E

S31|S32

S24

1951

This tablet is a remonumentation of the original corner by the U. S. Bureau of Reclamation in 1951 and is accepted as the best remaining evidence of the original location.

The point is located in the intersection of oiled roads, bearing N.

Dependent Resurvey of a Portion of South Boundary of T. 16 S., R. 22 E.

Chains

85° 36' E., S. 85° 36' W., and North. The tablet is set 10 inches below the surface of the road and from which:

A U. S. Bureau of Reclamation Test Well, an iron pipe 1 1/2 inches in diameter, bears N. 49° 55' W., 41.4 lks., (27.36 ft.).

A nail in the corner of fences bearing N. and Easterly, bears N. 33° 26' E., 73 lks., (48.18 ft.).

Thence, from the corner by a dependent resurvey along the S. boundary of section 31. S. 85° 36' W., on dependent resurvey along the S. boundary of section 31.

Over level cultivated land, along an oiled road.

39.70 End of oiled road, gravelled road bears N.

40.08 The 1/4 corner of section 31 is marked by a U. S. Bureau of Reclamation iron post, 36 inches long, 2 ins. in diameter, with brass cap marked: S31 1951

This point is accepted as the best remaining evidence of the original location. I remove this post, and

At the same point:

Set an iron post, 30 inches long, 2 1/2 inches in diameter, 30 inches in the ground, and in concrete, with brass cap marked: T16S R22E S31 1961

Set a redwood post, 4 inches by 4 inches by 6 feet, 30 inches in the ground, N. of corner as a guard stake.

Thence: S. 85° 36' W., beginning new measurement.

Over level land, through cultivated fields.

40.08 The corner of T. 16 S., R. 22 E., marked by a U. S. Bureau of Reclamation brass tablet set in concrete 1 foot below the surface of the E. slope of the bank of a canal bearing N. and W.,

T16S

R21E R22E S36/S31 S23

This point is accepted as the best remaining evidence of the original location. I remove this post, and

At the same point:

Set an iron post, 30 inches long, 2 1/2 inches in diameter, 96 inches in the ground, on the E. slope of a canal bank, with brass cap marked:

Dependent Resurvey of Portion of Subdivision of T. 16 S., R. 22 E.

Chains

T16S
R21E | R22E
S36 | S31
S23
T8S R24W
1961

Set a redwood post, 4 ins. by 4 ins. by 7 ft., 48 ins. in the ground, on top of the brass cap.

Land, level bottom land.

Soil, deep, sandy clay loam.

Timber, none.

Undergrowth, none.

Dependent Resurvey of Portion of Subdivision of T. 16 E., R. 22 E.

Reestablishment of the Surveys Executed by J. LaGroze in 1856

The corner of sections 27, 28, 33, and 34 is marked by a railroad spike in a tie in the Southern Pacific Railroad Company's line along the new Yuma Levee. The point was identified by local engineers and is used as the corner by the owners of adjacent lands. It is accepted as the best remaining evidence of the original position.

At the same point:

Set an iron post, 30 ins. long, 2½ ins. in diameter, 40 ins. in the ground, surrounded by concrete, and with brass cap marked:

T16SR22E
S28 | S27
S33 | S34
1961

Thence:

S. 89° 53' W., on dependent resurvey between sections 28 and 33.

In railroad right-of-way.

2.60 Power line, fence, at the S. edge of right-of-way and N. edge of Yuma City Park, bears N. 80° W. and S. 80° E.

10.00 Fence and W. edge of City Park, bears N. and S., thence through cultivated fields.

19.74 Fence, bears N. and S.

39.84 Fence and power line, bears N. and S.

39.96 The ¼ corner of sections 28 and 33 is marked by an iron pipe, 12 ins. long, 1 in. in diameter, 6 ins. under surface of dirt road. This point is used by the owners of adjacent lands, and is accepted as the best available evidence of the original position of the corner.

At the same point:

Set an iron post, 30 ins. long, 2½ ins. in diameter, 48 ins. in the ground with brass cap marked:

T16SR22E
¼ S28
S33
1961

Dependent Resurvey of Portion of Subdivision of T. 16 S., R. 22 E.

Chains	<p>From which:</p> <p>A 4 ins. x 4 ins. x 7 ft. redwood post, set 3 ft. in the ground, bears E. 14 lks. dist., marked REF 14 lks. W.</p> <hr/> <p>Thence:</p> <p>S. 89° 53' W., beginning new measurement.</p> <p>9.70 Irrigation ditch, 15 lks. wide, 3 ft. deep, bears N. and S.</p> <p>19.60 Fence, bears N. and S.</p> <p>19.70 Dirt road, 20 lks. wide, bears N. and S.</p> <p>39.40 Fence and power line, bears N. and S.</p> <p>39.70 Graded road, 30 lks. wide, bears N. and S.</p> <p>39.96 The corner of secs. 28, 29, 32, and 33, monumented by an iron post, 2½ ins. in diameter, set, marked and witnessed as described in the official record of the 1959 dependent resurvey.</p> <p>Land, level bottom land. Soil, deep, sandy clay loam. Timber, none. Undergrowth, none.</p> <hr/> <p>Beginning at the remonumented corner of sections 27, 28, 33, and 34.</p> <p>Thence:</p> <p>North on dependent resurvey, between sections 27 and 28.</p> <p>Over level land.</p> <p>.38 Center of new Yuma Levee, bears N. 80° 21' W., and S. 80° 21' E., and marked by a brass tablet, seated in concrete, 8 ins. below the surface of the levee. Gravelled road along top of levee.</p> <p>1.06 Telephone line, parallel to the levee.</p> <p>1.30 Dirt road, parallel to the levee.</p> <p>2.80 Enter cultivated area, parallel to the levee.</p> <p>17.80 Leave cultivated area, bears E. and W. Enter dense undergrowth.</p> <p>18.02 Intersect mean high water on the left bank of the Colorado River, bearing N. 85° W., and S. 85° E.</p> <p>Set an iron post, 30 ins. long, 2½ ins. in diameter, 24 ins. in the ground at the meander corner of sections 27 and 28, with brass cap marked:</p> <div style="text-align: center;"> <p>MC S28 S27 1961</p> </div> <p>Land, level bottom land Soil, deep, sandy clay loam. Timber, none. Undergrowth, none.</p>
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Dependent Resurvey of Portion of Subdivision of T. 16 S., R. 22 E.

Chains Beginning at the corner of Sections 31 and 32 on the south boundary of the township.

Thence:

N. 0° 32' W. on dependent resurvey, between sections 31 and 32.

Over level cultivated land along a gravelled road.

2.47 The $\frac{1}{4}$ corner of sections 31 and 32, monumented by a U. S. Bureau of Reclamation iron post, 10 ins. under the surface of the road, with brass cap marked:

T16SR22E

S31|S32

1951

This point is accepted by the owners of adjacent lands and is accepted as the best available evidence of the original position of the corner.

Thence:

N. 0° 32' W., beginning new measurement.

Along gravelled road.

38.17 Canal, 20 lks. wide, 3 ft. deep, bears E. and W.

39.05 Center of Southern Pacific Railroad tracks on levee.

N. 70° E. & S. 70° W.

39.23 Center of New Yuma Levee, bears ~~Eastward~~. Gravelled road along top of levee.

40.00 The corner of sections 29, 30, 31, and 32, monumented by a 2½ inch iron post, set, marked and witnessed as described in the official record of the 1959 dependent resurvey.

Survey of Portion of Subdivision of Section lines in Section 28

Beginning at the remonumented $\frac{1}{4}$ section corner of sections 28 and 33.

Thence:

North, on original survey, along the North-south center line of Sec. 28.

Over cultivated land, along the center of a lane, bearing north and south.

6.05 Fence, parallel to New Yuma Levee.

6.30 Power line, parallel to levee.

6.70 Southern Pacific Railroad track, parallel to levee.

6.96 Center of New Yuma Levee, bearing ~~S.~~ N. 81° 21' W., marked by a brass tablet seated in concrete, 8 ins. below the surface of the levee. Gravelled road along top of levee.

7.60 Telephone line, parallel to levee.

7.84 Dirt road, parallel to levee.

9.30 Over cultivated land, along west side of lane.'

Survey of Portion of Subdivision of Section lines in Section 28.

Chains
20.00

At the center-south 1/16 section corner of section 28.

Set an iron post, 30 ins. long, 2½ ins. in diameter, 24 ins. in the ground, with brass cap marked:

C
S1/16 | S28
C
1961

From which:

The southeast corner of a house bears N. 11° 57' W., 12 lks. distant.

The southwest corner of a workshed, bears N. 61° 55' E., 34 lks. distant.

24.45

Intersect mean high water on the left bank of the Colorado River, bearing N. 84° 21' W., by S. 86° E.

Set an iron post, 30 ins. long, 2½ ins. in diameter, 28 ins. in the ground at the meander corner on the north-south center line of section 28, with brass cap marked:

SMC
C
S | 28
C
1961

Land, level bottom land.

Soil, deep, sandy clay loam.

Timber, none.

Undergrowth, none.

Beginning at the center-south 1/16 section corner of section 28.

Thence:

S. 89° 54' W., along the east-west center line of the southwest quarter of section 28.

Over cultivated land.

39.96

The S. 1/16 corner of sections 28 and 29, monumented by an iron post, 2½ ins. in diameter, set, marked and witnessed as described in the official record of the 1959 dependent resurvey.

Land, level bottom land.

Soil, deep, sandy clay loam.

Timber, none.

Undergrowth, none.

Meanders of the left bank of the Colorado River in T. 16 S., R. 22 E.

Beginning at the special meander corner on the north-south center line of section 28, on the left bank of the Colorado River.

Thence, with meanders of the left bank of the river, downstream in section 28.

Along a cut bank about 10 ft. high in dense undergrowth.

N. 84° 21' W., 7.99 chains.

N. 86° 20' W., 6.36 chains.

Survey of Portion of the Subdivision of Section lines in Section 28

Chains	<p>N.. 87° 23' W., 3.51 chs.</p> <p>N. 88° 12' W., 7.99 chs.</p> <p>N. 87° 37' W., 6.10 chs.</p> <p>N. 89° 09' W., 8.08 chs. At the end of this course intersect the meander corner of sections 28 and 29.</p> <p>Marked by an iron post 2½ ins. in diameter conforming to the record of the 1959 resurvey.</p>
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Land, level bottom land.
 Soil, deep, sandy clay loam.
 Timber, mesquite, palo fierro, palo verde, willows and cottonwood.
 Undergrowth, arrow weed, salt cedar, weeds and grass.

GENERAL DESCRIPTION

The land covered by the resurvey is located in the bottom land south and east of the left bank of the Colorado River. It is nearly flat and almost all under cultivation. There is a narrow strip of mesquite, palo fierro, palo verde, willows and cottonwood along the left bank of the river in section 28. The undergrowth consists of arrow weed and salt cedar, with lesser amounts of weeds and grass.

Chains

0. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

CERTIFICATE OF CADASTRAL SURVEYOR

I, Paul G. Bauer, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 15th day of September, 1960.

I have ~~XXXXXX~~ under the supervision of Robert C. Yundt, dependently resurveyed and surveyed those portions of sections 28 and 31 in Township 16 South, Range 22 East,

of the San Bernardino Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

Salt Lake City, Utah
(Date)

Paul G. Bauer
(Cadastral Surveyor)

April 28, 1961
(Date)

Robert C. Yundt
(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

Washington, D. C., JUL 20 1961, 1961

The foregoing field notes of the ~~survey of~~ dependent resurvey and survey of sections 28 and 31 in Township 16 South, Range 22 East of the San Bernardino Meridian, Arizona

executed by Paul G. Bauer, under the supervision of Robert C. Yundt having been critically examined and found correct, are hereby approved.

Donald D. Clement
(Cadastral Engineering Staff Officer)
Chief, Division of Engineering

CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in _____, is a true copy of the original field notes.

(Date)

(Cadastral Engineering Staff Officer)