

ORIGINAL

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

FIELD NOTES
OF THE DEPENDENT RESURVEY OF THE
EAST AND WEST BOUNDARIES
AND
THE SURVEY OF THE SUBDIVISIONAL LINES
TOWNSHIP 42 NORTH, RANGE 27 EAST,
OF THE GILA AND SALT RIVER MERIDIAN,
IN THE STATE OF ARIZONA.

EXECUTED BY

Craig S. Dukart, Cadastral Surveyor

Under Special Instructions dated April 28, 2011, approved April 28, 2011, and Supplemental Special Instructions dated June 10, 2011, which provided for the surveys included under Group No. 1095, and assignment instructions dated April 28, 2011.

Survey commenced June 15, 2011

Survey completed June 24, 2011

INDEX DIAGRAM

TOWNSHIP 42 NORTH RANGE 27 EAST
GILA AND SALT RIVER MERIDIAN, ARIZONA

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T. 42 N., R. 27 E., Gila and Salt River Meridian, Arizona

CHAINS

The following field notes describe the dependent resurvey of the east and west boundaries and the survey of the subdivisional lines, Township 42 North, Range 27 East, Gila and Salt River Meridian, Arizona.

The history of surveys pertaining to this survey is as follows:

The Utah/Arizona state boundary between Mile Post 243 and the Four Corners Monument, was dependently surveyed by Robert C. Yundt, Cartographer Cadastral, in 1953.

The Tenth Standard Parallel North (south boundary), the east, west and north boundaries, Township 41 North, Range 27 East, Gila and Salt River Meridian, were surveyed by Horace G. Parker, Cartographer Cadastral, in 1953.

The west boundary, Township 42 North, Range 27 East, Gila and Salt River Meridian, was surveyed by Horace G. Parker, Cartographer Cadastral, in 1953.

The east and west boundaries, Township 42 North, Range 28 East, Gila and Salt River Meridian, was surveyed by Horace G. Parker, Cartographer Cadastral, in 1953.

The west boundary, Township 41 North, Range 28 East, Gila and Salt River Meridian, was dependently resurveyed by Craig S. Dukart, Cadastral Surveyor, in 2008.

The north boundary, Township 41 North, Range 27 East, Gila and Salt River Meridian, was dependently resurveyed by Craig S. Dukart, Cadastral Surveyor, in 2011.

The survey was executed in accordance with the specifications as set forth in the Manual of Instructions (2009), and the Special Instructions dated April 28, 2011, and Supplemental Special Instructions dated June 10, 2011, for Group Number 1095, Arizona.

The true meridian direction and length of all lines were determined by real time kinematic global positioning system observations using Trimble Navigation 5700, 5800 and R8 model receivers.

Preliminary to the resurvey, the lines of the prior surveys were retraced and search was made for all corners. Identified corners were remonumented in their original positions. Lost corners were reestablished and remonumented at proportionate positions based on the official record.

The retracement data were thoroughly verified and only true line field notes are given herein.

T. 42 N., R. 27 E., Gila and Salt River Meridian, Arizona

CHAINS

The "standard monument" referred to in these notes is a stainless steel post, 28 ins. long, 2 1/2 ins. diam., with a brass cap. Unless otherwise indicated, a magnet in a white plastic case is deposited at the base of the stainless steel post.

Geodetic control was derived from Global Positioning System (GPS) static observations post processed by National Geodetic Survey, Online Positioning User Service (OPUS), utilizing Continuously Operating Reference Stations (CORS) DI2245 P011 SPIDERROCKAZ2005 CORS ARP, DI3419 P012 MONTICELLOUT2006 CORS ARP, AI0265 AZCN AZTEC CORS ARP and DL3642 MC09 NUCLA CORS ARP. The NAD 83 (CORS96) (EPOCH: 2002), geographic position of the following two corners.

The southeast corner of the township is as follows:

Latitude: 36°59'44.78" N. Longitude: 109°23'28.59" W.

The southwest corner of the township is as follows:

Latitude: 36°59'44.75" N. Longitude: 109°29'58.65" W.

The mean magnetic declination is 10 1/2° E.

**Dependent Resurvey of the East Boundary,
T. 42 N., R. 27 E., Gila and Salt River Meridian, Arizona**

Restoring the survey executed by
Horace G. Parker, in 1953

Beginning at the cor. of Tps. 41 and 42 N., Rs. 27 and 28 E., monumented with an iron post, 2 1/2 ins. diam., firmly set, 14 ins. below the ground, with brass cap mkd. T42N R27E R28E S36 S31 S1 S6 T41N 1953 2008 2011.

N. 0°01' W., on the E. bdy. of sec. 36.

Over level terrain.

18.85

Point for the closing cor. of secs. 31 and 36, determined by shards of broken glass, at the intersection of the Arizona - Utah boundary.

At the corner point

Set a standard monument, 25 ins. in the ground, mkd.

**Dependent Resurvey of the East Boundary,
T. 42 N., R. 27 E., Gila and Salt River Meridian, Arizona**

CHAINS

UTAH

S 36	S 31
R 27 E	R 28 E
T 42 N	
CC	

2011

From this cor. point, Mile Post 260 of the Utah-Arizona State Boundary, bears N. 89°56' E., 168.62 chs. dist., monumented with an iron post, 2 1/2 ins. diam., firmly set, projecting 5 ins. above the ground, with brass cap mkd. 260M UTAH ARIZ 1953, with a scattered mound of stone to the easterly.

From this same cor. point, Mile Post 255 of the Utah-Arizona State Boundary, bears S. 89°56' W., 231.08 chs. dist., monumented with an iron post, 2 1/2 ins. diam., firmly set, leaning, projecting 34 ins. above the ground, with brass cap mkd. UTAH 255M ARIZ.

**Dependent Resurvey of the West Boundary,
T. 42 N., R. 27 E., Gila and Salt River Meridian, Arizona**

Restoring the survey executed by
Horace G. Parker, in 1953

From the cor. of Tps. 41 and 42 N., Rs. 26 and 27 E., monumented with an iron post, 2 1/2 ins. diam., firmly set, projecting 11 ins. above the ground, with brass cap mkd. T42N R26E R27E S36 S31 S1 S6 T41N 1953 2011.

N. 0°01' E., on the W. bdy. of sec. 31.

Over level terrain.

18.79 Intersect the Utah-Arizona Boundary; point for the closing cor. of secs. 31 and 36.

Set a standard monument, 25 ins. in the ground, mkd.

UTAH

S 36	S 31
R 26 E	R 27 E
T 42 N	
CC	

2011

Dependent Resurvey of the West Boundary
T. 42 N., R. 27 E., Gila and Salt River Meridian, Arizona

CHAINS

From this cor. point, Mile Post 255 of the Utah-Arizona State Boundary, bears S. 89°58' E., 248.45 chs. dist., hereinbefore described.

From this same cor. point, Mile Post 250 of the Utah-Arizona State Boundary, bears N. 89°58' W., 151.915 chs. dist., monumented with an iron post, 2 1/2 ins. diam., firmly set, projecting 6 ins. above the ground, with brass cap mkd. 250M UTAH ARIZ 2000 1953.

From this same cor. point, the closing cor. of secs. 31 and 36, established in 1953, bears N. 0°01' E., 1 1/2 lks. dist., monumented with an iron post, 2 1/2 ins. diam., firmly set, projecting 12 ins. above the ground, with brass cap mkd. UTAH S36 S31 R26E R27E T42N CC 1953. Add the marks AM to the brass cap, invert and bury the iron post in place.

Survey of the Subdivisional Lines,
T. 42 N., R. 27 E., Gila and Salt River Meridian, Arizona

From the the cor. of secs. 1, 2, 35 and 36, monumented with an iron post, 2 1/2 ins. diam., firmly set, flush with the ground, with brass cap mkd. T42N R27E S35 S36 S2 S1 T41N 1953 2011, with a mound of stone, 2 ft. base, 1 ft. high, N. of cor.

N. 0°02' W., bet. secs. 35 and 36.

Over level terrain.

18.76 Intersect the Utah-Arizona Boundary; point for the closing cor. of secs. 35 and 36.

Set a standard monument, 25 ins. in the ground, mkd.

UTAH

S 35	S 36
T 42 N	R 27 E
CC	

2011

From this cor. point, Mile Post 260 of the Utah-Arizona State Boundary, bears N. 89°56' E., 248.64 chs. dist., hereinbefore described.

From this same cor. point, Mile Post 255 of the Utah-Arizona State Boundary, bears S. 89°56' W., 151.06 chs. dist., hereinbefore described.

Survey of the Subdivisional Lines
T. 42 N., R. 27 E., Gila and Salt River Meridian, Arizona

CHAINS

Terrain, level to rolling.
Soil, sand.
Timber, none.
Undergrowth, various desert vegetation.

Point for the 1/4 sec. cor. of sec. 36 only, T. 42 N., R. 27 E., at midpoint on the N. bdy. of sec. 36, on the Utah-Arizona boundary.

Set a standard monument, 25 ins. in the ground, mkd.

UTAH

1/4 S 36
T 42 N R 27 E

2011

From this cor. point, the closing cor. of secs. 31 and 36, bears N. 89°56' E., 40.01 chs. dist., hereinbefore described.

From this same cor. point, the closing cor. of secs. 35 and 36, bears S. 89°56' W., 40.01 chs. dist., hereinbefore described.

From the cor. of secs. 2, 3, 34 and 35, monumented with an iron post, 2 1/2 ins. diam., firmly set, projecting 1 in. above the ground, with brass cap mkd. T42N R27E S34 S35 S3 S2 T41N 1953 2011.

N. 0°03' W., bet. secs. 34 and 35.

Over level terrain.

18.685

Intersect the Utah-Arizona Boundary; point for the closing cor. of secs. 34 and 35.

Set a standard monument, 25 ins. in the ground, mkd.

UTAH

S 34	S 35
T 42 N	R 27 E
CC	

2011

From this cor. point, Mile Post 260 of the Utah-Arizona State Boundary, bears N. 89°56' E., 328.68 chs. dist., hereinbefore described.

Survey of the Subdivisional Lines
T. 42 N., R. 27 E., Gila and Salt River Meridian, Arizona

CHAINS

From this same cor. point, Mile Post 255 of the Utah-Arizona State Boundary, bears S. 89°56' W., 71.02 chs. dist., hereinbefore described.

Terrain, level to rolling.
Soil, sand.
Timber, none.
Undergrowth, various desert vegetation.

Point for the 1/4 sec. cor. of sec. 35 only, T. 42 N., R. 27 E., at midpoint on the N. bdy. of sec. 35, on the Utah-Arizona boundary.

Set a standard monument, 25 ins. in the ground, mkd.

UTAH

1/4 S 35
T 42 N R 27 E

2011

From this cor. point, the closing cor. of secs. 35 and 36, bears N. 89°56' E., 40.02 chs. dist., hereinbefore described.

From this same cor. point, the closing cor. of secs. 34 and 35, bears S. 89°56' W., 40.02 chs. dist., hereinbefore described.

From the cor. of secs. 3, 4, 33 and 34, monumented with an iron post, 2 1/2 ins. diam., firmly set, projecting 1 in. above the ground, with brass cap mkd. T42N R27E S33 S34 S4 S3 T41N 1953 2011.

N. 0°03' W., bet. secs. 33 and 34.

Over level terrain.

18.61 Intersect the Utah-Arizona Boundary; point for the closing cor. of secs. 33 and 34.

Set a standard monument, 25 ins. in the ground, mkd.

UTAH

S 33 | S 34
T 42 N | R 27 E
CC

2011

Survey of the Subdivisional Lines
T. 42 N., R. 27 E., Gila and Salt River Meridian, Arizona

CHAINS

From this cor. point, Mile Post 255 of the Utah-Arizona State Boundary, bears S. 89°58' E., 8.955 chs. dist., hereinbefore described.

From this same cor. point, Mile Post 250 of the Utah-Arizona State Boundary, bears N. 89°58' W., 391.41 chs. dist., hereinbefore described.

Terrain, level to rolling.

Soil, sand.

Timber, none.

Undergrowth, various desert vegetation.

Point for the 1/4 sec. cor. of sec. 34 only, T. 42 N., R. 27 E., at midpoint on the N. bdy. of sec. 34, on the Utah-Arizona boundary.

Set a standard monument, 25 ins. in the ground, mkd.

UTAH

1/4 S 34
T 42 N R 27 E

2011

From this cor. point, the closing cor. of secs. 34 and 35, bears N. 89°56' E., 39.99 chs. dist., hereinbefore described.

From this same cor. point, Mile Post 255 of the Utah-Arizona State Boundary, bears S. 89°56' W., 31.03 chs. dist., hereinbefore described.

From the cor. of secs. 4, 5, 32 and 33, monumented with an iron post, 2 1/2 ins. diam., firmly set, projecting 5 ins. above the ground, in a collar of stone, with brass cap mkd. T42N R27E S32 S33 S5 S4 T41N 1953 2011.

N. 0°04' W., bet. secs. 32 and 33.

Over level terrain.

18.67

Intersect the Utah-Arizona Boundary; point for the closing cor. of secs. 32 and 33.

Set a standard monument, 25 ins. in the ground, mkd.

Survey of the Subdivisional Lines
T. 42 N., R. 27 E., Gila and Salt River Meridian, Arizona

CHAINS

UTAH

S 32	S 33
T 42 N.	R 27 E
CC	

2011

From this cor. point, Mile Post 255 of the Utah-Arizona State Boundary, bears S. 89°58' E., 88.99 chs. dist., hereinbefore described.

From this same cor. point, Mile Post 250 of the Utah-Arizona State Boundary, bears N. 89°58' W., 311.375 chs. dist., hereinbefore described.

Terrain, level to rolling.

Soil, sand.

Timber, none.

Undergrowth, various desert vegetation.

Point for the 1/4 sec. cor. of sec. 33 only, T. 42 N., R. 27 E., at midpoint on the N. bdy. of sec. 33, on the Utah-Arizona boundary.

Set a standard monument, 25 ins. in the ground, mkd.

UTAH

1/4	S 33
T 42 N	R 27 E

2011

From this cor. point, the closing cor. of secs. 33 and 34, bears S. 89°58' E., 40.015 chs. dist., hereinbefore described.

From this same cor. point, the closing cor. of secs. 32 and 33, bears N. 89°58' W., 40.015 chs. dist., hereinbefore described.

From the cor. of secs. 5, 6, 31 and 32, monumented with an iron post, 2 1/2 ins. diam., firmly set, projecting 4 ins. above the ground, with brass cap mkd. T42N R27E S31 S32 S6 S5 1953 2011, with a mound of stone, 3 ft. base, 1/2 ft. high, W. of cor.

N. 0°04' W., bet. secs. 31 and 32.

Over level terrain.

18.73

Intersect the Utah-Arizona Boundary; point for the closing cor. of secs. 31 and 32.

Survey of the Subdivisional Lines
T. 42 N., R. 27 E., Gila and Salt River Meridian, Arizona

CHAINS

Set a standard monument, 25 ins. in the ground, mkd.

UTAH

S 31 | S 32
T 42 N | R 27 E
CC

2011

From this cor. point, Mile Post 255 of the Utah-Arizona State Boundary, bears S. 89°58' E., 169.01 chs. dist., hereinbefore described.

From this same cor. point, Mile Post 250 of the Utah-Arizona State Boundary, bears N. 89°58' W., 231.355 chs. dist., hereinbefore described.

Terrain, level to rolling.

Soil, sand.

Timber, none.

Undergrowth, various desert vegetation.

Point for the 1/4 sec. cor. of sec. 32 only, T. 42 N., R. 27 E., at midpoint on the N. bdy. of sec. 32, on the Utah-Arizona boundary.

Set a standard monument, 25 ins. in the ground, mkd.

UTAH

1/4 S 32
T 42 N R 27 E

2011

From this cor. point, the closing cor. of secs. 32 and 33, bears S. 89°58' E., 40.01 chs. dist., hereinbefore described.

From this same cor. point, the closing cor. of secs. 31 and 32, bears N. 89°58' W., 40.01 chs. dist., hereinbefore described.

Point for the 1/4 sec. cor. of sec. 31 only, T. 42 N., R. 27 E., at 40.00 chs. dist. from the closing cor. of secs. 31 and 32, on the N. bdy. of sec. 31, on the Utah-Arizona boundary.

Set a standard monument, 25 ins. in the ground, mkd.

Survey of the Subdivisional Lines
T. 42 N., R. 27 E., Gila and Salt River Meridian, Arizona

CHAINS

UTAH

1/4 S 31
T 42 N R 27 E

2011

From this cor. point, the closing cor. of secs. 31 and 32, bears S. 89°58' E., 40.00 chs. dist., hereinbefore described.

From this same cor. point, the closing cor of secs. 31 and 36, bears N. 89°58' W., 39.44 chs. dist., hereinbefore described.

GENERAL DESCRIPTION

The terrain is mostly level to rolling desert.

The elevation varies from 5,100 to 5,300 feet above sea level. The soil is mostly fine sand with areas of sandstone outcrops and ledges. The vegetation is sagebrush, cacti, greasewood and native grasses undergrowth throughout the township.

This township is approximately 18 chains high and runs along the south side of the Utah-Arizona state line.

The mean magnetic declination of 10 1/2° E. was derived from the National Geophysical Data Center's magnetic declination calculator, for the dates of the survey.
