

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Original

FIELD NOTES

of the Survey of the East and West Boundaries

and a Portion of the Subdivisional Lines of

Fractional Township 42 North, Range 11 West

and the

Dep. Resurvey of the East Boundary of

Fractional Township 42 North, Range 12 West

Of the Gila and Salt River Meridian,

In the State of Arizona

EXECUTED BY

Paul K. Russell, Cartographic Survey Aid

Under special instructions dated September 22, 1954, which provided
for the surveys included under Group No. 295, approved September 27, 1954
and assignment instructions dated November 23, 1955

Survey commenced January 18, 1956

Survey completed January 27, 1956

4516

4516

1

BOOK 4516

INDEX DIAGRAM

Township 42 North, Range 11 West

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
2 31	5 32	4 33	34	35	3 36 1

Fractional T. 42 N., R. 11 W.

Chains

The north boundary (Utah-Arizona State Line) was surveyed by H. B. Carpenter in 1901. In connection with the survey of T. 43 S., R. 14 W., Salt Lake Base and Meridian, Utah, the state boundary line, from the 31st to the 38th mile corners, was retraced by L. A. Snow in 1909, as shown on the plat approved April 19, 1911. From the 28th to the 31st mile corners, ties were made by A. J. Stewart Jr., in connection with the survey of T. 43 S., R. 15 W., Salt Lake Base and Meridian, Utah, as shown on the plat approved April 19, 1911. The west boundary was surveyed by J. P. Davis in 1921, at which time a quarter section corner was established for both secs. 31 and 36. The south boundary was concurrently surveyed by Paul K. Russell, under Group 295, Arizona, and its record appears in the field notes of the survey of the north boundary of T. 41 N., R. 11 W.

The following field notes are those of the survey of the east and west boundaries and a portion of the subdivisional lines of T. 42 N., R. 11 W. and the resurvey of the east boundary of T. 42 N., R. 12 W., Gila and Salt River Meridian, Arizona.

In connection with the survey of the west boundary of T. 41 N., R. 11 W. concurrently done under this group, the marks on the corner of Tps. 41 and 42 N., Rs. 11 and 12 W., were changed to refer to R. 12 W. only, and a new corner established for R. 11 W., 4.52 chs. distance, north.

The survey was executed with W. and L. E. Gurley transit number 481347. It is equipped with full vertical circle and improved Smith type telescopic solar attachment, and conforms to the standard instrumental specifications of the Bureau of Land Management. The instrument was maintained in precise adjustment throughout the progress of the survey.

The directions of all lines herein reported are determined by deflection from meridians established by observations upon Polaris and the sun, throughout the survey.

Measurements were made with a narrow steel tape, 8 chs. in length, graduated every link for the first 100 links and thereafter at intervals of 5 links. The tape was tested by comparison with a one-chain standard steel tape and found correct. All measurements were made on the slope and the angle of each interval ascertained by a clinometer in good adjustment; the horizontal equivalents alone are entered in the field note record. The length of all lines was determined by chaining.

The geographic position of the southeast corner of the township, is in latitude $36^{\circ} 59' 26.646''$ N. and longitude $113^{\circ} 25' 28.464''$ W., as determined by traverse from U. S. C. and G. S. station "Black", situated in sec. 32; T. 42 N., R. 11 W.

The average magnetic declination was found to be 16° E.

E. Bdy. T. 42 N., R. 11 W.

Beginning at the cor. of Tps. 41 and 42 N., Rs. 10 and 11 W., an iron post, $2\frac{1}{2}$ ins. diam., set, mkd. and witnessed as described in the field note record of the survey of the E. bdy. of T. 41 N., R. 11 W.

North, bet. secs. 31 and 36.

Over rolling desert land.

Wash, 80 lks. wide, 2 ft. deep, drains N. 60° W.; ascend 18 ft. over S. slope.

27.00 Edge of bench, bears E. and W.; desc. 37 ft. over N. slope.

BOOK 4516

E. Bdy. T. 42 N., R. 11 W.

Chains

30.70 Wash, 15 lks. wide, 2 ft. deep, drains N. 50° W.

31.70 Wash, 15 lks. wide, 2 ft. deep, drains N. 70° W., intersects other wash at about 2 chs. dist.

40.00 Point for the $\frac{1}{4}$ sec. cor. of secs. 31 and 36.Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. diam., 16 ins. in the ground to bedrock, and in a mound of stone to top, with brass cap mkd.

S 36 | S 31

1956

Asc. 11 ft. over WSW. slope.

41.50 Wash, 10 lks. wide, 1 ft. deep, drains N. 60° W.

49.10 Red sandstone ledge, 6 ft. high.

51.27 Intersect the Utah-Arizona State Boundary Line.

Point for the closing cor. of T. 42 N., Rs. 10 and 11 W.

Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. diam., 8 ins. in the ground to bedrock, and in a mound of stone to top, with brass cap mkd.

S36 | S31

R11W R10W

T42N

CC

1956

From the point of intersection the 34th mile post on the Utah - Arizona State Boundary Line, bears West, 35.29 chs. dist., and is monumented with an iron post, 2 ins. diam., set, mkd., and witnessed as described in the official record.

Land, rolling

Soil, sandy

Timber, none; undergrowth, Brigham tea and sparse grass

Dep. Resurvey of the E. Bdy. of T. 42 N., R. 12 W.
and survey of the W. Bdy. of T. 42 N., R. 11 W.

From the cor. of Tps. 41 and 42 N., R. 12 W., an iron post, 3 ins. diam., set, mkd. and witnessed as described in the field note record of the resurvey of the E. bdy. of T. 41 N., R. 12 W. and survey of the W. bdy. of T. 41 N., R. 11 W.

North, along the E. bdy. of sec. 36, T. 42 N., R. 12 W.

Over rolling desert land.

4.52 Intersect the cor. of Tps. 41 and 42 N., R. 11 W., an iron post, 2 $\frac{1}{2}$ ins. diam., set, mkd. and witnessed as described in the field note record of the resurvey of the E. bdy. of T. 41 N., R. 12 W. and survey of the W. bdy. of T. 41 N., R. 11 W.

40.00 Intersect the $\frac{1}{4}$ sec. cor. of secs. 31 and 36, an iron post, 1 in. diam., set, mkd. and witnessed as described in the official record; as this cor. now functions as a cor. for R. 12 W. only, I remark the iron post.

W. Bdy. T. 42 N., R. 11 W.

Chains

44.52

Cor. sets at head of shallow drain, drains N. 60° E.

Point for the 1/4 sec. cor. of sec. 31 only, 40.00 chs. dist. N. in latitude from the SW. cor. of the township.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 16 ins. in the ground to bedrock, and in a mound of stone to top, with brass cap mkd.

55.00

Intersect the closing cor. of T. 42 N., Rs. 11 and 12 W., on the Utah-Arizona State Boundary Line, an iron post, 3 ins. diam., set, mkd. and witnessed as described in the official record.

From this cor. the 28th mile post on the Utah-Arizona State Boundary Line, bears West, 17.74 chs. dist., and is monumented with an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record.

Land, rolling

Soil, sandy

Timber, none; undergrowth, black brush and sparse grass

Survey of a Portion of the Subdivisional Lines T. 42 N., R. 11 W.

From the cor. of secs. 1, 2, 35 and 36, on the S. bdy. of the township, an iron post, 2 1/2 ins. diam., set, mkd. and witnessed as described in the field note record of the survey of the N. bdy. of T. 42 N., R. 11 W.

N. 0° 01' W., bet. secs. 35 and 36. Over rolling desert land; desc. 7 1/4 ft. over N. slope.

18.00

Wash, 10 lks. wide, 2 ft. deep, drains generally N.

19.00

Recross wash.

26.50

Recross wash.

29.60

Recross wash, drains W. for about 2 chs. dist., thence N.

36.50

S. bank of Pierce Wash, 30 lks. wide, water 4 ins. deep, course W.

39.80

Road, bears W. and E. to old Fort Pierce.

40.00

Point for the 1/4 sec. cor. of secs. 35 and 36.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 22 ins. in the ground, with brass cap mkd.

S35|S36

1956

Subdivision T. 42 N., R. 11 W.

Chains

Raise a mound of stone, 3 ft. base, 2 1/2 ft. high, W. of cor.

Asc. 82 ft. over S. slope.

51.03

Intersect the Utah-Arizona State Boundary Line.

Point for the closing cor. of secs. 35 and 36, T. 42 N., R. 11 W.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 22 ins. in the ground, with brass cap mkd.

S 35 | S 36
T. 42 N. R. 11 W.
C C
1956

Raise a mound of stone, 3 ft. base, 2 1/2 ft. high, S. of cor.

From the point of intersection the 33rd mile post on the Utah-Arizona State Boundary Line, bears West, 35.35 chs. dist., and is monumented with an iron post, 2 ins. diam., set, mkd., and witnessed as described in the official record.

Land, rolling

Soil, rocky

Timber, none; undergrowth, sparse grass

At the midpoint on the N. bdy. of sec. 36.

Point for the 1/4 sec. cor. of sec. 36.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 22 ins. in the ground, with brass cap mkd.

1/4 \$36

Raise a mound of stone, 3 ft. base, 2 1/2 ft. high, S. of cor. 3/4 mile post on Utah-Arizona boundary bears East 4.71 chains.

From the cor. of secs. 34, 5, 32 and 33, on the S. bdy. of the township, an iron post, 2 1/2 ins. diam., set, mkd. and witnessed as described in the field notes record of the survey of the N. bdy. of T. 41 N., R. 11 W.

From this cor., U. S. C. and G. S. station "Black", a standard disk set in an outcropping of rock, bears N. 19° 34' 30" W., 24.55 chs. dist.; latitude 36° 59' 42.108" N. and longitude 113° 29' 55.482" W.

N. 0° 03' W., bet. secs. 32 and 33.

Over mountainous land; ascend 169 ft. over S. slope.

17.50

Start along E. slope.

18.90

Rock knoll peak, bears W., 30 lks. dist.

32.20

Slope changes to N.; desc. 274 ft. to 1/4 sec. cor.

40.00

Point for the 1/4 sec. cor. of secs. 32 and 33.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 14 ins. in the ground to bedrock, and in a mound of stone to top, with brass cap mkd.

Subdivision T. 42 N., R. 11 W.

Chains

 $\frac{1}{4}$
 S32|S33

1956

Desc. 151 ft. over N. slope.

50.76

Intersect the Utah-Arizona State Boundary Line.

Point for the closing cor. of secs. 32 and 33, T. 42 N., R. 11 W.

Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 6 ins. in the ground to bedrock, and in a mound of stone to top, with brass cap mkd.

S	32		S	33
T	42N		R	11W
C	C			

 1956

From the point of intersection the 30th mile stone on the Utah-Arizona State Boundary Line, bears West, 37.34 chs. dist., and is monumented with a lava stone, 30 x 14 x 14 ins., set, mkd. and witnessed as described in the official record.

Land, mountainous
Soil, rocky
Timber, none; undergrowth, black brush and sparse grassFrom the cor. of secs. 5, 6, 31 and 32 on the south boundary of the township, an iron post, $2\frac{1}{2}$ ins. diam., set, mkd. and witnessed as described in the field note record of the survey of the N. bdy. of T. 41 N., R. 11 W.N. $0^{\circ} 03' W.$, bet. secs. 31 and 32.

Over nearly level desert land; ascend 30 ft.

40.00

Point for the $\frac{1}{4}$ sec. cor. of secs. 31 and 32.Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 14 ins. in the ground to bedrock, and in a mound of stone to top, with brass cap mkd.
 $\frac{1}{4}$
 S31|S32

1956

50.65

Intersect the Utah-Arizona State Boundary Line.

Point for the closing cor. of secs. 31 and 32, T. 42 N., R. 11 W.

Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 20 ins. in the ground, with brass cap mkd.

S	31		S	32
T	42N		R	11W
C	C			

1956

Raise a mound of stone, 3 ft. base, $2\frac{1}{2}$ ft. high, S. of cor.

Subdivision T. 42 N., R. 11 W.

Chains

From the point of intersection the 29th mile stone on the Utah-Arizona State Boundary Line, bears West, 37.30 chs. dist., and is monumented with a limestone, 32 x 12 x 11 ins., set, mkd. and witnessed as described in the official record.

Land, nearly level

Soil, sandy

Timber, none; undergrowth, sagebrush and sparse grass

At the midpoint on the N. bdy. of sec. 32.

Point for the $\frac{1}{4}$ sec. cor. of sec. 32.

Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 22 ins. in the ground, with brass cap mkd.

$\frac{1}{4}$ S32

1956

Raise a mound of stone, 3 ft. base, $2\frac{1}{2}$ ft. high, S. of cor.
30 mile post on Utah-Arizona boundary bears East 2.675 chains.

At a point on the Utah-Arizona State Boundary Line and 40.00 chs. dist. West of the closing cor. of secs. 31 and 32.

Point for the $\frac{1}{4}$ sec. cor. of sec. 31.

Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 22 ins. in the ground, with brass cap mkd.

$\frac{1}{4}$ S31

1956

Raise a mound of stone, 3 ft. base, $2\frac{1}{2}$ ft. high, S. of cor.

At a point on the Utah-Arizona State Boundary Line and 80.00 chs. dist. West of the closing cor. of secs. 31 and 32.

Point for the $\frac{1}{16}$ sec. cor. of sec. 31.

Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 16 ins. in the ground to bedrock, and in a mound of stone to top, with brass cap mkd.

80

$\frac{1}{16}$ S31

1956

Raise a mound of stone, 3 ft. base, $2\frac{1}{2}$ ft. high, S. of cor.
29 mile post on Utah-Arizona boundary bears East 2.70 chains.

General Description

T. 42 N., R. 11 W. is made fractional by the Utah-Arizona State Boundary Line. The terrain is mostly rolling desert land except for a lone mountain, known as Black Knoll, situated in secs. 32 and 33.

There is no timber in the township and the vegetation consists of sagebrush, black brush and sparse grass.

Pierce Wash enters the township near the middle of sec. 36 and leaves it in the northeast quarter of sec. 35.

The Sunshine Trail road, traverses north and south through sec. 34. Numerous unimproved trail roads are found in the township; one leading to a mining excavation on the east side of Black Knoll.

4-680
(Feb., 1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Craig P. Sylvester	Transitman
LeRoy N. McCulley	Rear Chainman; Notes
Boyd S. Owens	Front Chainman
Dee Von Thompson	Flagman
Vergean Porter	Axeman, Cornerman
Darwin L. Turner	Axeman, Cornerman

CERTIFICATE OF CADASTRAL ENGINEER

I, Paul K. Russell, HEREBY CERTIFY upon honor that, in
pursuance of special instructions bearing date of the 22nd day of September, 1954
I have surveyed the east and west boundaries and a portion of the subdivisional lines
of T. 42 N., R. 11 W. and resurveyed the east boundary of T. 42 N., R. 12 W.

of the G. and S. R. 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.

July 18, 1956
Salt Lake City, Utah

Paul K. Russell
Paul K. Russell
Cartographic Survey Aid

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,
Washington, D. C., NOV 26 1956, 1956

The foregoing field notes of the survey of the east and west boundaries and a portion of
the subdivisional lines of T. 42 N., R. 11 W. and the resurvey of the east
boundary of T. 42 N., R. 12 W. of the Gila and Salt River Meridian, Arizona

executed by Paul K. Russell, Cartographic Survey Aid
having been critically examined and found correct, are hereby approved.

Earl G. Harrington
Chief, Division of Cadastral Engineering
Cadastral Engineering Staff Officer

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.

Chief, Division of Cadastral Engineering