

BOOK 4000

FIELD NOTES

OF THE SURVEY OF THE

OF DEPENDENT RESURVEY OF

THE SUBDIVISION LINES BOUNDING

SECTION 22

TOWNSHIP 4 NORTH, RANGE 3 EAST

Of the Gila and Salt River Base and Meridian,

In the State of Arizona

EXECUTED BY

Charles E. Hunter, U.S. Transitman

In the capacity of U. S. Surveyor, under Special Instructions dated April 5, and supplemental Special Instructions dated June 7, 1932, 1932, issued by the District Cadastral Engineer to govern surveys included in Group

No. 176, which were approved by the Commissioner of the General Land Office, April 20, 1932, and Assignment Instructions dated June 7, 1932.

Re-Survey commenced June 18, 1932

Re-Survey completed June 28, 1932

4000

4000

48
1A

BOOK 4000

INDEX DIAGRAM.

Township 4 North, Range 3 East

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
31	32	33	34	35	36

Handwritten annotations in the diagram:
- In row 3, column 4: 5, 6
- In row 4, column 3: 5, 4
- In row 4, column 4: 4, 3
- In row 4, column 5: 6, 7
- A thick border surrounds the cell containing 22.

—— Lines resurveyed under this group - Notes herein.

Chains

The resurveys, herein described, were executed with a Young & Sons transit No. 8584. The instrument is equipped with an improved Smith Solar attachment. The horizontal limb is provided with two double verniers placed opposite each other, reading to single minutes of arc, which is also, the least count of the verniers of the vertical circle, latitude, and declination arcs.

The instrument was approved, subject to the usual field tests, by the District Cadastral Engineer, for Arizona.

Unless otherwise specified, all azimuths are determined with the solar attachment, and all measurements are made with a Lallie steel tape, five chains in length, compared with a Lufkin standard steel tape, and found correct. The measurements are made on the slope, the vertical angle determined with clinometer or transit, and the slope measurements properly reduced to true horizontal distances, for entry in the field notes.

PRELIMINARY FIELD TEST

June 18, 1932. At station near the cor. of secs. 22, 23, 26 and 27, T. 4 N., R. 3 E., G. & S.R.B.&M. Arizona, at approximate latitude, $33^{\circ} 40' N.$, and longitude $112^{\circ} 02' W.$, examine the adjustments of the instrument and correct all errors.

June 19, 1932. At $1^h 50^m 30^s$ a.m., l.m.t., observe Polaris at eastern elongation, making four observations, two each with the telescope in the direct and the reverse positions, and mark the line thus determined with a tack, in a stake driven firmly in the ground, five chains north.

Azimuth of Polaris at eastern elongation is $1^{\circ} 16' 36''$.

Lay off the azimuth of Polaris $1^{\circ} 16\frac{1}{2}'$ to the west and mark the meridian thus determined with a tack, in a stake driven firmly in the ground, five chains north.

At $8^h 00^m$ a.m., app. t., with the latitude arc set at $33^{\circ} 40' N.$ and the declination arc set at $23^{\circ} 26\frac{1}{2}' N.$ determine a meridian with the solar, which agrees within $1'$ of the true meridian.

At apparent noon, with the latitude arc unchanged, observe the sun on the meridian. The resultant reading of the declination arc is $23^{\circ} 26\frac{1}{2}' N.$, which agrees with the computed declination of the sun.

At $4^h 00^m$ p.m., app. t., with the latitude arc unchanged, and the declination arc set at $23^{\circ} 27' N.$, determine a meridian with the solar, which agrees within $1'$ of the true meridian.

As all of the solar observations taken during the usual hours of solar work, agree within $1'$ of the true meridian, it is concluded that the instrument is in satisfactory adjustment.

Resurvey of the Boundaries of Section 22, T. 4 N., R. 3 E.

Chains

The boundaries of sec. 22, were surveyed in connection with the subdivision of T. 4 N., R. 3 E., by J.H. Martinson, in 1894.

No retracement or resurvey of any part of the boundary of sec. 22 is of record.

The following notes describe resurvey of the North, south east and west boundaries of sec. 22.

Retracement for Resurvey

From the cor. of secs. 22, 23, 26 and 27.

West, on a random line, bet. secs. 22 and 27, (E $\frac{1}{2}$)

39.96 Fall 5 lks. N. of the $\frac{1}{4}$ sec. cor. of secs. 22 and 27.

True course and dist. of the E. $\frac{1}{2}$ mile bet. secs. 22 and 27 are therefore, S. 89°56' W. 39.96 chs.

Thence,

West, on a random line, bet. secs. 22 and 27, (W $\frac{1}{2}$)

41.01 Fall 58 lks. N. of the cor. of secs. 21, 22, 27 and 28.

True course and dist. of the W. $\frac{1}{2}$ mile bet. secs. 22 and 27 are therefore, S. 89°11' W., 41.01 chs.

Thence

North, on a random line, bet. secs. 21 and 22, (S $\frac{1}{2}$)

39.92 Fall 15 lks. E. of the $\frac{1}{4}$ sec. cor.

True course and dist. of the S. $\frac{1}{2}$ mile bet. secs. 21 and 22 are therefore, N. 0°13' W., 39.92 chs.

Thence

North, on a random line, bet. secs. 21 and 22, (N $\frac{1}{2}$)

42.19 Fall 36 lks. W. of the cor. of secs. 15, 16, 21 and 22.

True course and dist. of the N. $\frac{1}{2}$ mile bet. secs. 21 and 22 are therefore, N. 0°30' E., 42.19 chs.

Thence

East, on a random line, bet. secs. 15 and 22 (W $\frac{1}{2}$)

39.74 Fall 156 lks. N. of the $\frac{1}{4}$ sec. cor.

True course and dist. of the W $\frac{1}{2}$ mile bet. secs. 15 and 22 are therefore, S. 87° 45' E., 39.77 chs.

Thence

East, on a random line, bet. secs. 15 and 22, (E. $\frac{1}{2}$)

40.02 Fall 35 lks. S. of the cor. of secs. 14, 15, 22 and 23.

Resurvey of the boundaries of Section 22, T. 4 N., R. 3 E.

BOOK 400

Chains

True course and dist. of the E. $\frac{1}{4}$ mile bet. secs. 15 and 22 are therefore, N. 89° 30' E., 40.02 chs.

Thence

South, on a random line, bet. secs. 22 and 23.

40.00 No trace of the $\frac{1}{4}$ sec. cor.

80.22 Fall 102 lks. W. of the cor. of secs. 22, 23, 26 and 27.

True course and dist., of line bet. secs. 22 and 23 are therefore, S. 0° 44' E., 80.22 chs. which to maintain the original proportion between cor. intervals, gives two intervals of 40.11 chs. each, for the reestablishment of the $\frac{1}{4}$ sec. cor.

RESURVEY

The cor. of secs. 22, 23, 26 and 27, is a schist stone, 4 x 6 x 14 ins., with top of stone set 12 ins. below surface of road. While no marks were visible on this stone, the point where it was found was pointed out by R. T. Mahon, a settler, who stated that it was the original cor., and that he was present at the time that the stone was buried by road crew when making improvement of road. At this point

Set an iron post, 1 $\frac{1}{2}$ ft. long (Since bedrock was encountered at 2 $\frac{1}{2}$ ft., it was necessary to cut off the lower half of post.), 2 ins. in diam., with top, 12 ins. below surface of ground, and with original cor. stone along side, for cor. of secs. 22, 23, 26 and 27, with brass cap marked

T4N R3E
S22 | S23
S27 | S26
1932

from which

A cross (+) on a granite boulder, 10 x 8 x 4 ft. above ground, brs. S. 11° 25' W., 9.60 chs. dist., marked T4S R3E S27 BO.

The flue on R. T. Mahon's house, brs. N. 15° 37' W. No other bearing objects available.

Thence

S. 89° 56' W., on a true line bet. secs. 22 and 27, (E. $\frac{1}{2}$)

Over nearly level ground, through scattering brush.

30.00 Asc. 20 ft. over NE. slope.

33.40 Rocky spur, slopes N. 20° E.; desc. slightly.

39.96 The original $\frac{1}{4}$ sec. cor. of secs. 22 and 27, which is a malpais stone, 5 x 10 x 12 ins. set 2 ins. in the ground, marked with a $\frac{1}{4}$ on N. face, and witnessed by a mound of stone to N. At this point

Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground to bedrock, with the original cor. stone along side, in a mound of stone, 3 ft. base, 2 ft. high, for

Resurvey of the Boundaries of Section 22, T. 4 N., R. 3 E.

Chains

$\frac{1}{4}$ sec. cor. of secs. 22 and 27, with brass cap marked

$\frac{1}{4}$ $\frac{S\ 22}{S\ 27}$
1932

Thence

S. 89° 11' W., on a true line bet. secs. 22 and 27, (W. $\frac{1}{2}$)

Over nearly level ground, through scattering brush.

8.60 Old road brs. NW. and SE.

20.50 Old road brs. SW. and NE.

38.20 Old road brs. N. and S.

41.01 The original cor. of secs. 21, 22, 27 and 28, which is a granite stone, 8 x 10 x 12 ins., set 2 ins. in the ground in a mound of stone. While no marks were visible on stone, this is undoubtedly the original cor. At this point

Set an iron post, 3 ft. long, 2 ins. in diam., 12 ins. in the ground to bedrock, with original cor. stone along side, in a mound of stone, 3 ft. base, 1 $\frac{1}{2}$ ft. high, for cor. of secs. 21, 22, 27 and 28, with brass cap marked

T4N R3E
S21 | S22
S28 | S27
1932

Land, rolling.

Soil, sandy and rocky.

Undergrowth, greasewood and cactus.

Timber, a few scattering palo verde.

Thence

N. 0° 13' W., on a true line bet. secs. 21 and 22, (S. $\frac{1}{2}$)

Over rolling ground through scattering brush.

15.70 Old road, brs. NW. and SE.

18.20 Gulch, 30 lks. wide, course NW.

39.92 The original $\frac{1}{4}$ sec. cor. of secs. 21 and 22, which is a grey granite stone, 16 x 10 x 5 ins.; set 6 ins. in the ground in a mound of stone. At this point

Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground to bedrock, with original cor. stone along side, and in a mound of stone, 3 ft. base, 1 $\frac{1}{2}$ ft. high, for $\frac{1}{4}$ sec. cor. of secs. 21 and 22, with brass cap marked

$\frac{1}{4}$
S21 | S22

Resurvey of the Boundaries of Section 22, T. 4 N., R. 3 E.

Chains	<p>Thence</p> <p>N. 0° 30' E., on true line bet. secs. 21 and 22, (N. 1/2)</p> <p>Over rolling ground, through scattering brush.</p> <p>11.90 Ascend 200 ft. over rocky SW. slope.</p> <p>26.40 Rocky ridge, brs. N. 75° W. and S. 75° E., desc. 165 ft.</p> <p>42.19 The cor. of secs. 15, 16, 21 and 22, which is a granite stone, 8 x 5 x 12 ins., set 2 ins. in the ground, with 3 notches on E. and 3 notches on S., and witnessed by a mound of stone to N. At this point</p> <p>Set an iron post, 3 ft. long, 2 ins. in diam., 10 ins. in the ground to bedrock, with original cor. stone along side, and in a mound of stone, 3 ft. base, 2 ft. high, for cor. of secs. 15, 16, 21 and 22, with brass cap marked</p> <div style="text-align: center;"> <table border="1"> <tr><td>T4N</td><td>R3E</td></tr> <tr><td>S16</td><td>S15</td></tr> <tr><td>S21</td><td>S22</td></tr> </table> <p>1932</p> </div> <p>Land, rolling and mountainous Soil, gravelly and rocky; 2nd and 4th rate. Undergrowth, greasewood and cactus. Timber, a few scattering palo verde and mesquite.</p>	T4N	R3E	S16	S15	S21	S22
T4N	R3E						
S16	S15						
S21	S22						
	<p>Thence</p> <p>S. 87° 45' E., on a true line bet. secs. 15 and 22, (W. 1/2)</p> <p>Over gradual NW. slope, through scattering brush, asc. 50 ft.</p> <p>1.90 Road to Jack White's Mine, brs. NW. and SE.</p> <p>8.80 Line passes through mine dwelling house.</p> <p>10.50 Mine shaft, brs. S. 2 chs. dist.</p> <p>13.40 Water pipe line to same mine, brs. SW. and NE.</p> <p>15.40 Spur, slopes N. 20° E.; desc. 40 ft. over NE. slope.</p> <p>21.20 Enter level land.</p> <p>27.00 Old road, brs. NW. and SE.</p> <p>39.77 The original 1/4 sec. cor. of secs. 15 and 22, which is a malpais stone, 4 x 4 x 12 ins., set 8 ins. in the ground, with 1/4 on N. face. At this point</p> <p>Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, with original cor. stone along side, for 1/4 sec. cor. of secs. 15 and 22, with brass cap marked</p>						

Resurvey of the Boundaries of Section 22, T. 4 N. R. 3 E.

Chains

$$\frac{1}{4} \begin{array}{l} \text{S } 15 \\ \text{S } 22 \\ 1932 \end{array}$$

raise a mound

of stone, 2 ft. base, 3 ft. high, N. of cor.

Thence

N.89°30'E., on a true line bet. secs. 15 and 22, (E.★)

Over level ground, through scattering brush.

25.90 Old road, brs. N.30°W. and S.30°E.

27.80 The old uncompleted Verde Canal drains N.30°W.

40.02 The original cor. of secs. 14, 15, 22 and 23, which is a schist stone, broken in two parts, the two parts fitted neatly together, buried with top of stone 12 ins. below surface of ground in center of the Cave Creek Highway. No marks could be found on this stone, but the place where it was found was pointed out by R. T. Mahon, a settler, who stated that it was the original cor. At this point

Set an iron post, 2 ft. long, (Since bedrock was encountered at 3 ft., it was necessary to cut off a portion of post.), 2 ins. in diam., with top, 12 ins. below surface of ground, with original cor. stone along side, for cor. of secs. 14, 15, 22 and 23, with brass cap marked

$$\begin{array}{l} \text{T4N R3E} \\ \text{S15|S14} \\ \text{S22|S23} \\ 1932 \end{array}$$

From which

A mesquite tree, 5 ins. in diam., brs. N.56°00'E., 4.99 chs. dist., marked T4N R3E S14 BT.

A mesquite tree, 4 ins. in diam., brs. S.23°20'E., 3.15 chs. dist., marked T4N R3E S23 BT.

Land, nearly level.

Soil, gravelly; 2nd rate.

Undergrowth, greesewood and cactus.

Timber, a few scattering palo verde and mesquite.

Thence

S.0°44'E., on a true line bet. secs. 22 and 23.

Over level land, along Cave Creek Highway.

20.00 Old uncompleted Verde Canal drains NW.

40.11 Proportional dist. bet. the cor. of secs. 14, 15, 22 and 23 and the cor. of secs. 22, 23, 26 and 27. At this point

Set an iron post, 3 ft. long, 1 in. in diam., with top

Resurvey of the Boundaries of Section 22, T. 4 N., R. 3 E.

BOOK 4010

Chains

of post, set 12 ins. below surface of ground in center of Cave Creek Highway, for $\frac{1}{4}$ sec. cor. of secs. 22 and 23, with brass cap marked

$\frac{1}{4}$
S22 | S23
1932

from which

A mesquite tree, 6 ins. in diam. brs. S. $57^{\circ} 52'$ E., 6.73 chs. dist., marked $\frac{1}{4}$ S23 BT.

A mesquite tree, 4 ins. in diam. brs. N. $31^{\circ} 36'$ E., 4.51 chs. dist., marked BT, only. No tree to the west could be obtained.

80.22 The cor. of secs. 22, 23, 26 and 27, hereinbefore described.

Land, level.
Soil, sandy and gravelly loam; 1st and 2nd rate.
Undergrowth, greasewood and cactus.
Timber, mesquite and palo verde.

GENERAL DESCRIPTION

Section 22, T. 4 N., R. 3 E., is situated about sixteen miles north-east of Phoenix, Arizona. The Cave Creek Highway passes along the east side of this section. The land is part mountainous and part level. A large malpais hill extends in a NW. and SE. direction, across the NW. quarter of this section. The surrounding land is slightly rolling. The soil of the lower land is a sandy and gravelly loam, and when watered, well suited for growing citrus fruit. There is considerable evidence of mineral over the west one-half of the section. The undergrowth is greasewood and cactus. The only timber consists of a few scattered mesquite and Palo Verde.

FINAL TEST OF INSTRUMENT

June 28, 1932. At station near the cor. of secs. 22, 23, 26 and 27, using meridian hereinbefore described on page 1, hereof, at 8^h00^ma.m., app.t., with the latitude arc set at $33^{\circ} 40'$ N., and the declination arc set at $23^{\circ} 17\frac{1}{2}'$ N., determine a meridian with the solar which agrees with the true meridian.

At apparent noon, with the latitude arc unchanged, observe the sun on the meridian. The resultant reading of the declination arc is $23^{\circ} 16\frac{1}{2}'$ N., which agrees with the computed declination of the sun.

Resurvey of the Boundaries of Section 22, T. 4 N., R. 3 E.

At 4^h00^mp.m., app.t., with the latitude arc unchanged and the declination arc set at 23°16'N., determine a meridian with the solar which agrees within 1' of the true meridian.

As all of the solar observations taken during the usual hours of solar work agree within 1' of the true meridian, it is concluded that the instrument has maintained its adjustment.

BOOK 4000

CERTIFICATE OF UNITED STATES SURVEYOR.

I, Charles E. Hunter ^{Transitman} ~~Surveyor~~, U. S. ~~Surveyor~~, hereby certify upon honor that, in pursuance
 and supplemental special instructions
 of special instructions received from the District Cadastral Engineer for Arizona
 bearing date of the 5th ^{April 1932,} and 7th ^{June} day of June, 1932, I have well, faithfully, and truly
 in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instruc-
 tions, and the laws of the United States, ~~surveyed all these parts or portions of~~ resurveyed the
~~section boundaries, and surveyed by notes and bounds, a body of land~~
~~classified as mineral bearing, included within the Suzanna mining claim,~~
of section 22, Township 4 North, Range 3 East,

 _____ of the Gila and
Salt River 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 all the corners of
 said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instruc-
 tions, and the special written instructions of the District Cadastral Engineer for Arizona
 and in the specific manner described in the field notes, and that the foregoing are the original field notes of
 such survey.

Charles E. Hunter
 U.S. Transitman ~~Surveyor~~
Glendale, California

APPROVAL. November 16, 1932.

Office of U.S. Supervisor of Surveys,
 Denver, Colorado, DEC 29 1932

The foregoing field notes of the ~~survey of~~ dependent resurvey of the ~~section bound-~~
~~aries, and the notes and bounds survey of a body of land classified as~~
~~mineral bearing, included within the Suzanna mining claim,~~ of section
22, Township 4 North, Range 3 East, of the Gila and Salt River Meridian,
in the State of Arizona,

executed by Charles E. Hunter, U.S. Transitman
 and supplemental special instructions
 under his special instructions, dated April 5, 1932 and June 7, 1932, having been
 critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys
 they describe, are hereby approved.

Wm. A. Johnson
 U.S. Supervisor of Surveys

~~I certify that the foregoing transcript of the field notes of the above described surveys in~~
 _____, has been correctly copied from the original notes on file in this office.