

3588

Book "H"

4-679

BOOK 3588

(1)

FIELD NOTES

OF THE RESURVEY OF THE

South boundary,

Part of East boundary,

Part of the North boundary, and

Part of the Subdivision lines of

TOWNSHIP 4 SOUTH, RANGE 29 EAST,

and of the SURVEY of

North boundary, and

Part of the Subdivision lines (completion) of

TOWNSHIP 4 SOUTH, RANGE 29 EAST,

Of the Gila and Salt River Base and Meridian,

In the State of Arizona.

EXECUTED BY

William H. Thorn, U.S. Cadastral Engineer, and

Benjamin J. Kinsey, U. S. Transitman,

In the capacity of U. S. Surveyors, under Special Instructions dated August 24, 1920,
ued by the United States Surveyor General to govern surveys included in Group
11, Arizona,, which were approved by the Commissioner of the General Land
December 18, 1920, and Assignment Instructions dated November 17, 1920.

vey & Survey commenced March 25, 1921.

vey & Survey completed April 28, 1921.

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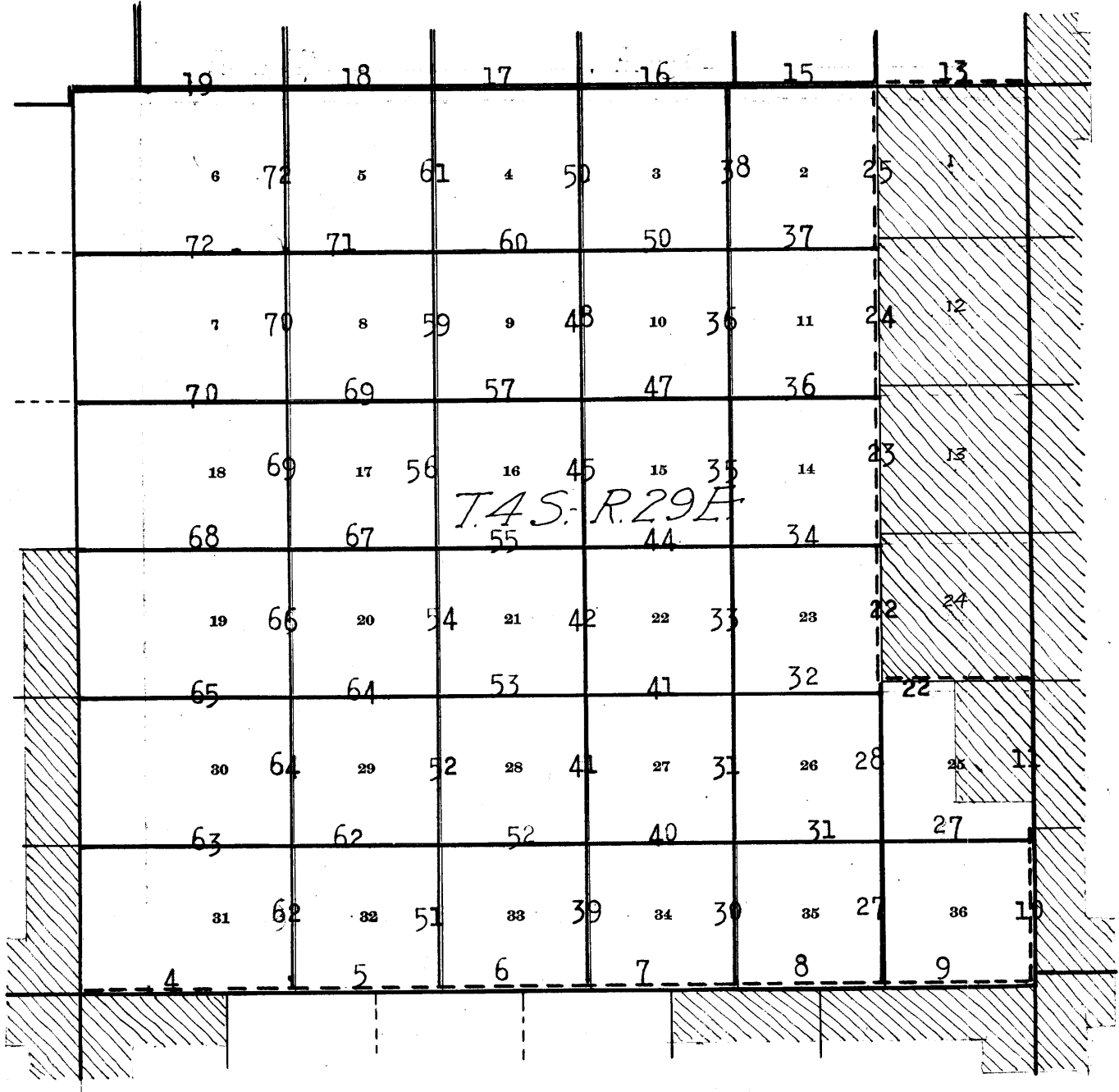
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BOOK 3588

Book "H"

Group 111 - - Arizona.

INDEX DIAGRAM.



-  Lines surveyed under this group.
-  Lines resurveyed under this group.
-  Accepted surveys.
-  Unsurveyed.
-  Areas surveyed as per accepted plats on file.

Book "H"

Group 111 - - - Arizona.

BOOK 3888

Township 4 South, Range 29 East.

DATE DIAGRAM.

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On above diagram solid red lines indicate surveys and dotted red lines indicate resurveys executed by William H. Thorn, U.S. Cadastral Engineer, on dates shown thereon.

On above diagram, solid black lines indicate surveys, and dotted black lines indicate resurveys executed by Benjamin J. Kinsey, U.S. Transmitter, on dates shown thereon.

Resurveys and surveys hereinafter described, executed by William H. Thorn, U.S. Cadastral Engineer, and Benjamin J. Kinsey, U.S. Transitman, on dates shown on diagram on page 1 hereof, using Young and Son's light mountain transits Nos. 8592 and 8477, respectively. Each instrument is equipped with full vertical circle and the Smith solar attachment. Unless otherwise specified, all azimuth determinations are accomplished with the solar attachments.

We examine the adjustment of each instrument, and correct all errors; then, to test the solar apparatus by comparing its indications from observations made during a.m. and p.m. hours with a meridian established by Polaris observation, proceed with each instrument as follows:

March 24, 1921: In camp near the cor. of secs. 22, 23, 26 and 27, T. 4 S., R. 29 E., Gila and Salt River Base and Meridian, Arizona, in lat. $33^{\circ}3\frac{1}{2}'$ N.; long. $109^{\circ}19\frac{1}{2}'$ W., at 7h. 20.8m., p.m., l.m.t., observe Polaris at western elongation, making four observations, two each with the telescope in direct and reversed positions, and mark the mean point in the line thus determined by a tack in a peg driven firmly in the ground 5 chs. N.

Azimuth of Polaris at western elongation = $1^{\circ}19'47''$.

Lay off the azimuth of Polaris, $1^{\circ}20'$ to the east, and mark the meridian thus determined by a tack in a peg firmly driven in the ground, 5 chs. N.

March 27, 1921. At 9h. 0m., a.m., l.m.t., set off $33^{\circ}3\frac{1}{2}'$ N. on the lat. arc; $2^{\circ}35'$ N. on the decl. arc, and determine a meridian with the solar, which agrees with the true meridian.

At apparent noon, with the lat. arc unchanged, observe the sun on the meridian; the resulting reading of the decl. arc is $2^{\circ}37\frac{1}{2}'$ N., which agrees with the computed decl. of the sun.

At 3h. 0m., p.m., l.m.t., with the lat. arc unchanged set off $2^{\circ}41'$ N. on the decl. arc, and determine a meridian with the solar, which agrees with the true meridian.

As all of the solar observations made with both instruments during the usual hours of solar work come within $1' 30''$ of the true meridian, we conclude that the adjustment of the instruments is satisfactory.

Unless otherwise specified, all measurements are made with a Lufkin steel tape, 5 chs. in length, compared with a Chesterman standard steel tape, and found correct. The measurements are made on the slope, the vertical angles determined with clinometers, and the slope measurements properly reduced to true horizontal distances.

Chains.

The South bdy. of T.4 S., R.29 E. was surveyed by William B. Kimmel, U.S. Surveyor, in December, 1913, and Jan. & Feb. 1914, as the North bdy. of T.5 S., R.29 E. in connection with the survey of part of the Subdivision lines of said township, establishing the corners common to areas N. and S. of the line at intervals of 40.00 chs. counting from the west.

No retracement or resurvey of this township bdy. is of record.

Retracement for Resurvey.

Accepted subdivisional lines of T.5 S., R.29 E. being tied to this Tp. bdy., its alinement is not subject to rectification; therefore, in the following notes describing the retracement for resurvey the courses and distances between the existing corners are designated as N. bdrs. of secs. in T.5 S., R.29 E. In the resurvey of the line hereinafter described, the existing cors. are changed to refer to areas in T.5 S., R.29 E. only, a new set of $\frac{1}{2}$ sec. and sec. cors. referring to areas in T.4 S., R.29 E. only are established alternately at intervals of 40 chs., counting from the east, and such intervals are designated as S. bdrs. of secs. in T.4 S., R.29 E. only.

75.37 From the closing cor. of Ts. 4 and 5 S., R.29 E., which is an iron post; hereinafter described,
West, on random line on N. bdy. of sec. 1 (E. $\frac{1}{2}$).
Intersect the original $\frac{1}{2}$ sec. cor. of secs. 1 and 36, hereinafter described.
The true course and distance of E. $\frac{1}{2}$ of N. bdy. of sec. 1 are therefore West 75.37 chs.

40.01 West, on random line on N. bdy. of sec. 1 (W. $\frac{1}{2}$).
Fall 2 lks. S. of the original cor. of secs. 1, 2, 35 and 36, hereinafter described.
The true course and distance of W. $\frac{1}{2}$ of N. bdy. of sec. 1 are therefore N. 89° 58' W., 40.01 chs.

40.50 West, on random line on N. bdy. of sec. 2 (E. $\frac{1}{2}$).
Fall 1 lk. S. of the original $\frac{1}{2}$ sec. cor. of secs. 2 and 35, hereinafter described.
The true course and distance of E. $\frac{1}{2}$ of N. bdy. of sec. 2 are therefore N. 89° 59' W., 40.50 chs.

39.49 West, on random line on N. bdy. of sec. 2 (W. $\frac{1}{2}$).
Fall 1 lk. S. of the original cor. of secs. 2, 3, 34 and 35, hereinafter described.
The true course and distance of W. $\frac{1}{2}$ of N. bdy. of sec. 2 are therefore N. 89° 59' W., 39.49 chs.

39.83 West, on random line on N. bdy. of sec. 3 (E. $\frac{1}{2}$).
Fall 1 lk. S. of the original $\frac{1}{2}$ sec. cor. of secs. 3 and 34, hereinafter described.
The true course and distance of E. $\frac{1}{2}$ of N. bdy. of sec. 3 are therefore N. 89° 59' W., 39.83 chs.

39.90 West, on random line, on N. bdy. of sec. 3 (W. $\frac{1}{2}$).
Intersect the original cor. of secs. 3, 4, 33 and 34, hereinafter described.
The true course and distance of W. $\frac{1}{2}$ of N. bdy. of sec. 3 are therefore West, 39.90 chs.

4 Resurvey of South bdy. of Township 4 South, Range 29 East.

Chains.

Retracement for Resurvey cont'd.

39.67 West, on random line on N. bdy. of sec. 4 ($E. \frac{1}{2}$).
Fall 4 lks. S. of the original $\frac{1}{4}$ sec. cor. of secs. 4 and 33,
33, hereinafter described.
The true course and distance of $E. \frac{1}{2}$ of N. bdy. of sec. 4
are therefore N. $89^{\circ}57'W.$, 39.67 chs.

39.96 West, on random line on N. bdy. of sec. 4 ($W. \frac{1}{2}$).
Fall 4 lks. N. of the original cor. of secs. 4, 5, 32 and 33,
hereinafter described.
The true course and distance of $W. \frac{1}{2}$ of N. bdy. of sec. 4 are
therefore S. $89^{\circ}57'W.$, 39.96 chs.

39.53 West on random line on N. bdy. of sec. 5 ($E. \frac{1}{2}$).
Fall 1 lk. S. of the original witness cor. to $\frac{1}{4}$ sec. cor. of
secs. 5 and 32, hereinafter described. This W.C. being
of record as 40 lks. E. of the true cor. point, the true
course and distance of $E.$ half of N. bdy. of sec. 5 are
therefore N. $89^{\circ}59'W.$, 39.93 chs.

40.07 From true point for $\frac{1}{4}$ sec. cor.,
West on random line on N. bdy. of sec. 5 ($W. \frac{1}{2}$).
Fall 1 lk. S. of the original cor. of secs. 5, 6, 31 and 32,
hereinafter described.
The true course and distance of $W. \frac{1}{2}$ of N. bdy. of sec. 5
are therefore N. $89^{\circ}59'W.$, 40.07 chs.

40.21 West, on random line on N. bdy. of sec. 6 ($E. \frac{1}{2}$).
Intersect the original $\frac{1}{4}$ sec. cor. of secs. 6 and 31 here-
inafter described.
The true course and dist. of $E. \frac{1}{2}$ of N. bdy. of sec. 6 are
therefore West, 40.21 chs.

40.00 West, on random line on N. bdy. of sec. 6 ($W. \frac{1}{2}$).
Intersect the true point for cor. of Ts. 4 and 5 S., Rs. 28
and 29 E., witnessed 0.72 chs. North as hereinafter
described.
The true course and distance of $W. \frac{1}{2}$ of N. bdy. of sec. 6
are therefore West, 40.00 chs.
From the retracement described in the foregoing notes, the
total length of this Tp. bdy. is found to be 514.94
chs.; therefore the length of $W. \frac{1}{2}$ of S. bdy. of sec. 31,
T. 4 S., R. 29 E. will be 74.94 chs.

RESURVEY.

In the retracement for resurvey, the measurements to the
topographical features and elevations were found to
be in substantial agreement with the record of Surveyor
Kimmel's survey; therefore, no description of such
items are included in the following notes:

The true point for cor. of Ts. 4 and 5 S., Rs. 28 and 29
E. is 72 lks. S. from the witness cor. thereto, which
is an iron post 3 ins. in diam., projecting 12 ins.
above ground, firmly set, properly marked on brass
cap, and witnessed by a mound of stone, W. of post. No
bearing trees.

40.00 From true Tp. cor. point,
East, on a true line, on S. bdy. of sec. 31.
Over mountainous land, thru dense undergrowth.
Intersect the original $\frac{1}{4}$ sec. cor. of sec. 6 and 31, which
is an iron post, 1 in. in diam., projecting 10 ins.

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Resurvey of South bdy. of Township 4 South, Range 29 East. 5

Chains.

above ground ground, firmly set, properly marked on brass cap, and witnessed by a mound of stone N. of cor. No bearing trees. Alter this cor. to refer to sec. 6 only, by obliterating these markings on the brass cap referring to sec. 31, destroying the old mound of stone, and raising a new mound of stone, 2 ft. base, 1 1/2 ft. high, S of cor.

74.94 Continue line and measurement of S bdy. of sec. 31. (440 chs. westing from closing cor. of Ts. 4 and 5 S., R. 29 E.) Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for 1/4 sec. cor., of sec. 31 only, marked on brass cap,

T4S 31
1921

80.21 and raise a mound of stone, 4 ft. base, 3 ft. high, N. of cor. (40.21 chs. E. from 1/4 sec. cor. of sec. 6) Intersect the original cor. of secs. 5, 6, 31 and 32, which is an iron post, 3 ins. in diam., projecting 12 ins. above ground firmly set, properly marked on brass cap, and witnessed by a mound of stone, W. of cor. No bearing trees. Alter this cor. to refer to secs. 5 and 6 only by obliterating the markings on the brass cap referring to secs. 31 and 32, destroying the old mound of stone, and raising a new mound of stone, 2 ft. base, 1 1/2 ft. high, S. of cor.

114.94 Thence, S. 89° 59' E., on a true line, continuing measurement of S. bdy. of sec. 31. Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 31 and 32 only, marked on brass cap,

T4S | R29E
S31 | S32
S 5
T5S R29E
1921

and raise a mound of stone, 3 ft. base, 3 ft. high, N. of cor.
Land, rolling and mountainous.
Soil, very rocky, 4th rate.
No timber.
Undergrowth, dense scrub mesquite, catclaw and cacti.

5.34 S. 89° 59' E., on a true line, on S. bdy. of sec. 32. Over mountainous and hilly land, thru. scattering timber, and undergrowth. (40.07 chs. S. 89° 59' E. from cor. of secs. 5 and 6) The true point for 1/4 sec. cor. of sec. 5. Continue line and measurement.
5.74 Intersect the original witness cor. to 1/4 sec. cor. of secs. 5 and 32, which is an iron post, 1 in. in diam., projecting 10 ins. above ground, firmly set. properly marked on brass cap, and witnessed by a mound of stone, N. of cor. No bearing trees.

40.00 Alter this witness cor. to refer to point for 1/4 sec. cor. of sec. 5 only, by obliterating the markings on the brass cap, referring to sec. 32, destroying the old mound of stone, and raising a new mound of stone, 2 ft. base, 1 1/2 ft. high, S. of cor. Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground to bed rock, supported by a mound of stone, for 1/4 sec. cor., of sec. 32 only, marked on brass cap,

6 Resurvey of the South bdy. of Township 4 South Range 29 East.

Chains.

1/4 S 32

1921

and raise mound of stone, 4 ft. base, 3 ft. high, N. of cor.

45.27 (39.93 chs. S. 89°59'E. from point for 1/4 sec. cor. of sec. 5),
Intersect the original cor. of secs. 4, 5, 32 and 33, which is an iron post, 3 ins. in diam., projecting 12 ins. above ground, firmly set, properly marked on brass cap, and witnessed by a mound of stone, W. of cor. No bearing trees. Alter this cor. to refer to secs. 4 and 5 only by obliterating the markings on the brass cap referring to secs. 32 and 33, destroying the old mound of stone, and raise mound of stone, 2 ft. base, 1 1/2 ft. high, S. of cor. Thence,
N. 89°57'E., on a true line, continuing measurement of S. bdy. of sec. 32.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 32 and 33 only, marked on brass cap,

T4S	R29E
S32	S33
S 4	
T5S	R29E
1921	

and raise mound of stone, 4 ft. base, 3 ft. high, N. of cor.

Land, mountainous and hilly.
Soil, very rocky, 4th rate.
Timber, scattering cedar.
Undergrowth, scattering scotchlaw, scrub mesquite and cacti.

N. 89°57'E., on a true line on S. bdy. of sec. 33.
Over mountainous and hilly land, thru. scattering timber and dense undergrowth.

5.23 (39.96 chs. N. 89°57'E. from cor. of secs. 4 and 5) Intersect the original 1/4 sec. cor. of secs. 4 and 33, which is an iron post, 1 in. in diam., projecting 10 ins. above ground, firmly set, properly marked on brass cap, and witnessed by a mound of stone, N. of cor. No bearing trees. Alter this cor. to refer to sec. 4 only, by obliterating the markings on the brass cap, referring to sec. 33, destroying the old mound of stone, and raising a new mound of stone, 2 ft. base, 1 1/2 ft. high, S. of cor.

Thence,
S. 89°57'E., on a true line, continuing measurement of S. bdy. of sec. 32.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for 1/4 sec. cor., of sec. 33 only, marked on brass cap,

1/4 S 33

1921

and raise a mound of stone, 4 ft. base, 3 ft. high, N. of cor.

44.90 (39.67 chs. S. 89°57'E. from 1/4 sec. cor. of sec. 4) Intersect the original cor. of secs. 3, 4, 33 and 34, which is an iron post, 3 ins. in diam., projecting 12 ins. above ground, firmly set, properly marked on brass cap, and witnessed by a mound of stone, W. of cor. No bearing trees. Alter this cor. to refer to secs. 3 and 4 only by obliterating the markings on the brass cap referring to secs. 33 and 34, destroying the old mound of stone, and

Resurvey of South bdy. of Township 4 South, Range 29 East. 7

Chains.

raising a new mound of stone, 2 ft. base, 1 1/2 ft. high, S. of cor.

Thence, East, on a true line, continuing measurement of S. bdy. of sec. 32.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 33 and 34 only, marked on brass cap,

T4S R29E
S33 | S34

S 3
T5S R29E
1921

and raise a mound of stone, 4 ft. base, 3 ft. high, N. of cor.

Land, mountainous and hilly. Soil, very rocky, 4th rate. Timber, very scattering cedar. Undergrowth, dense scrub mesquite, catclaw, greasewood and cacti.

East, on a true line, on S. bdy. of sec. 34. Over mountainous land, thru. scattering timber and dense undergrowth.

4.80 (39.90 chs. N. from cor. of secs. 3 and 4), Intersect the original 1/4 sec. cor. of secs. 3 and 34, which is an iron post, 1 in. in diam., projecting 10 ins. above ground, firmly set, properly marked on brass cap, and witnessed by a mound of stone, N. of cor.

No bearing trees. Alter this cor. to refer to sec. 3 only by obliterating the markings on the brass cap, referring to sec. 34, destroying the old mound of stone, and raising a new mound of stone, 2 ft. base, 1 1/2 ft. high, S. of cor.

Thence, S. 89° 59' E., on a true line, continuing measurement of S. bdy. of sec. 34.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for 1/4 sec. cor. of sec. 34 only, marked on brass cap,

1/4 S 34
1921

and raise a mound of stone, 4 ft. base, 3 ft. high, N. of cor.

44.63 (39.83 chs. S. 89° 59' E. from 1/4 sec. cor. of sec. 3.) Intersect the original cor. of secs. 2, 3, 34 and 35, which is an iron post, 3 ins. in diam., projecting 12 ins. above ground, firmly set, properly marked on brass cap, and witnessed by a mound of stone, W. of cor.

Alter this cor. to refer to secs. 2 and 3 only by obliterating the markings on the brass cap, referring to secs. 34 and 35, destroying the old mound of stone, and raising a new mound of stone, 2 ft. base, 1 1/2 ft. high, S. of cor.

Continue line and measurement.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 34 and 35 only, marked on brass cap,

8 Resurvey of South bdy. of Township 4 South, Range 29 East.

Chains.

T4S R29E
S34 S35

S 2
T5S R29E
1921

and raise a mound of stone, 4 ft. base, 3 ft. high, N. of cor.
Land, mountainous.
Soil, very rocky, 4th rate.
Timber, scattering cedar.
Undergrowth, dense greasewood, catclaw, scrub mesquite and cacti.

4.12 S. 89° 59' E. on a true line, on S. bdy. of sec. 35. Over mountainous and hilly land, thru dense undergrowth. (39.49 chs. S. 89° 59' E. from cor. of secs. 2 and 35) Intersect the original 1/4 sec. cor. of secs. 2 and 35, which is an iron post, 1 in. in diam., projecting 10 ins. above ground, firmly set, properly marked on brass cap, and witnessed by a mound of stone, N. of cor. No bearing trees. Alter this cor. to refer to sec. 2 only, by obliterating the markings on the brass cap referring to sec. 35, destroying the old mound of stone, and raising a new mound of stone, 2 ft. base, 1 1/2 ft. high, S. of cor.

40.00 Continue line and measurement. Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for 1/4 sec. cor., of sec. 35 only, marked on brass cap,

1/4 S 35
1921

44.62 and raise a mound of stone, 4 ft. base, 3 ft. high, N. of cor. (40.50 chs. S. 89° 59' E. from 1/4 sec. cor. of sec. 2) Intersect the original cor. of secs. 1, 2, 35 and 36, which is an iron post, 3 ins. in diam., projecting 12 ins. above ground, firmly set, properly marked on brass cap, and witnessed by a mound of stone, W. of cor. No bearing trees. Alter this cor. to refer to secs. 1 and 2 only, by obliterating the markings on the brass cap referring to secs. 35 and 36, destroying the old mound of stone, and raising a new mound of stone, 2 ft. base, 1 1/2 ft. high, S. of cor.

80.00 Thence, S. 89° 58' E., on a true line, continuing measurement of S. bdy. of sec. 35. Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 35 and 36 only, marked on brass cap,

T4 S R29E
S35 S36
S 1
T5S R29E
1921

and raise a mound of stone, 4 ft. base, 3 ft. high, N. of cor.
Land, mountainous and hilly.
Soil, rocky, 4th rate.
No timber.
Undergrowth, dense greasewood, scrub mesquite, catclaw and cacti.

BOOK 9

Resurvey of South bdy. of Township 4 South, Range 29 East. 9

Chains.

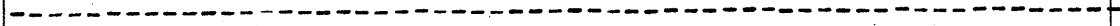
4.63 S. 89°58' E., on a true line, on S. bdy. of sec. 36. Over mountainous land, thru. dense undergrowth. (40.01 chs. S. 89°58' E., from cor. of secs. 1 and 2), Intersect the original $\frac{1}{4}$ sec. cor. of secs. 1 and 36, which is an iron post, 1 in. in diam., projecting 10 ins. above ground, firmly set, properly marked on brass cap, and witnessed by a mound of stone, N. of cor. No bearing trees. Alter this cor. to refer to sec. 1 only, by obliterating the markings on the brass cap, referring to sec. 36, destroying the old mound of stone and raising a new mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, S. of cor.

40.00 Thence, East, on a true line, continuing measurement of S. bdy. of sec. 36. Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., of sec. 36 only, marked on brass cap,

1/4 S 36
1921

80.00 and raise a mound of stone, 4 ft. base, 3 ft. high, N. of cor. Intersect the original closing cor. of Ts. 4 and 5 S., R. 29 E., which is an iron post 3 ins. in diam., projecting 12 ins. above ground, firmly set, properly marked on brass cap, and witnessed by a mound of stone, W. of cor.

No bearing trees.
From this cor., smoke stack on smelter brs. S. 41°22' E.
Land, mountainous and hilly.
Soil, rocky, 4th rate.
No timber.
Undergrowth, dense greasewood, scrub mesquite, catclaw and cacti.



10. Resurvey of part of E. bdy. of Township 4 S., R. 29 E.

Chains.

The East bdy. of T. 4 S., R. 29 E. was surveyed in 1882, by Theo. F. White, U.S.D.S. as the 5th Guide Meridian East. The E. bdy. of sec. 36 was retraced, and the E. bdy. of sec. 25 resurveyed by Edward R. Stafford, U.S.D.S. in 1899, in connection with his survey of the West Clifton Townsite in sec. 25.

No other retracement or resurvey of the range line is of record, but Surveyor Kimmel in 1914 closed the N. bdy. of T. 5 S., R. 30 E. against this range line at 7.40 chs. S. of the cor. of Ts. 4 and 5 S., Rs. 29 and 30 E., and changed said township cor. to refer to Ts. 4 and 5 S., R. 30 E. only.

Retracement for Resurvey:

From the closing cor. of Ts. 4 and 5 S., R. 29 E., hereinbefore described,

7.40 North, on random line, on E. bdy. of sec. 36. Intersect the cor. of Ts. 4 and 5 S., R. 30 E., hereinafter described.

True course and distance of this portion of line are therefore, North 7.40 chs.

Thence,

32.60 North, on random line, bet. secs. 31 and 36. (40.00 chs. N. from Tp. closing cor.) Set temp. $\frac{1}{4}$ sec. cor. of sec. 36.

Continue line and measurement.

39.95 Fall 1 lk. E. of the point of original location of $\frac{1}{4}$ sec. cor. of secs. 31 and 36, determined as hereinafter described. The true course and distance of S. $\frac{1}{2}$ of W. bdy. of sec. 31 are therefore N. 0° 1' W., 39.95 chs.

Thence,

32.65 North, on random line, bet. secs. 31 and 36. (80.00 chs. northing from Tp. C.C.) Set temp. cor. of secs. 25 and 36.

Continue line and measurement bet. secs. 25 and 31.

39.75 Fall 1 lk. E. of the original cor. of secs. 25, 30, 31 and 36, hereinafter described. The true course and distance of N. $\frac{1}{2}$ of W. bdy. of sec. 31 are therefore N. 0° 1' W., 39.75 chs.

Resurvey:

From the closing cor. of Ts. 4 and 5 S., R. 29 E., hereinbefore described,

North, on a true line, on E. bdy. of sec. 36. Over rolling land, thru. dense undergrowth. Ascend 26 ft., over SE. slope, to

7.40 Intersect the cor. of Ts. 4 and 5 S., R. 30 E., which is a porphyry stone, 3x8x8 ins. above ground, firmly set in cement, marked with 6 notches on each of N., S. and E. edges, and witnessed by a mound of stone, E. of cor. No bearing trees.

Thence,

N. 0° 1' W., on true line, continuing measurement of E. bdy. of sec. 36.

Ascend 195 ft., over SE. slope, to

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. of sec. 36 only, marked, on brass cap,

1836

1921

and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.

Resurvey of part of E. bdy. of Township 4 South, Range 29 East. 11 Chains.

47.35 Leave rolling and enter mountainous land.
 Ascend 63 ft., over SE. slope, to
 (39.95 chs. N.0°1'W. from cor. of Ts. 4 and 5 S., R.30 E.)
 Intersect the original point of location of $\frac{1}{4}$ sec. cor.
 of secs. 31 and 36, determined by measurement from the
 original accessory, a mound of stone, W. of point.
 No bearing trees.
 The original monument, which is a volcanic stone, 14x9x5
 ins., marked $\frac{1}{4}$ is lying on the ground. Reset old
 stone monument in original position, 10 ins. in the
 ground, with marking to the E., and alongside same,
 set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
 the ground, for $\frac{1}{4}$ sec. cor., of sec. 31 only, marked on
 brass cap,

T4S 31

1921

56.31 Destroy old mound of stone, W. of cor., and raise new mound
 of stone, 3 ft. base, 2 ft. high, E. of cor.
 Continue line and measurement.
 Ascend 110 ft., over S. slope.
 Spur, slopes SE. An iron pipe 1 $\frac{1}{2}$ ins. in diam., projecting
 4 ft. above ground, firmly set in ground and mound of
 stone, is situated at this point on line.
 Morenci Southern R.R. track brs. W. 30 lks. dist. in curve from
 NW. to SW.

74.90 Descend 197 ft., over N1. slope.
 Wash, 20 lks. wide in gulch, course SE.
 Ascend 131 ft. over SW. slope to sec. cor.
 79.50 Morenci Southern R.R. track in curve from N. to SE.
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in
 the ground, for cor. of secs. 25. and 36 only, marked
 on brass cap,

T4S	T4S
S25	R30E
S36	S31
R29E	

1921

and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.

Land, rolling and mountainous.
 Soil, rocky, 3rd rate.
 No timber.
 Undergrowth, dense greasewood, catclaw, scrub mesquite
 and cacti.

7.10 N.0° 1'W., on a true line, on part of E. bdy. of sec. 25,
 completing resurvey of W. bdy. of sec. 31, T.4 S., R.30 E.
 Over mountainous land, thru. dense undergrowth.
 Ascend 110 ft., over SW. slope, to
 (39.75 chs. N.0°1'W. from $\frac{1}{4}$ sec. cor. of sec. 31). Tele-
 phone line, brs. NW. and SE.
 Intersect the original cor. of secs. 25, 30, 31 and 36,
 which is a porphyry stone, 6x6x4 ins. above ground,
 firmly set, marked with a cross (x) on top, 1 notch
 on S. edge, and 5 notches on N. edge, and witnessed by a
 mound of stone, W. of cor. No bearing trees.
 Alongside of old stone, set an iron post, 3 ft. long, 2 ins.
 ins. diam., 24 ins. in the ground, for cor. of secs.
 30 and 31 only, marked on brass cap,

12 Resurvey of part of the east bdy. of T.4 S., R. 29 E.

Chains.

T4S	T4S
R29E	S30
S25	S31
	R30E

1921

Destroy old mound of stone W. of cor., and raise a new mound of stone, 3 ft. base, 2 ft. high, E. of cor.

Land, mountainous.

Soil, rocky, 3rd rate.

No timber.

Undergrowth, dense greasewood, catclaw, scrub mesquite and cacti.

No new cors. referring to areas in T.4 S., R. 29 E. only are required, beyond the cor. of secs. 25 and 36; therefore, discontinue the resurvey of the range line at the above described cor.

Resurvey of part of North bdy. of Township 4 South, Range 29 East. 13

Chains.

The mile bet. secs. 1 and 36, on the N. bdy. of Tp. 4 S., R. 29 E. was surveyed in February, 1882 by Theo. F. White, U.S. D.S., and no retracement or resurvey of this mile is of record, but the cor. of Ts. 3 and 4 S., Rs. 29 and 30 E. was reestablished in its original position by William B. Kimmel, U.S. Surveyor in February, 1914.

Retracement for Resurvey.

From the cor. of Ts. 3 and 4 S., Rs. 29 and 30 E., hereinafter described,

- 40.00 West, on random line on N. bdy. of sec. 1. Diligent search in this vicinity failed to reveal any trace of the original $\frac{1}{4}$ sec. cor.
- 80.00 Set temp. $\frac{1}{4}$ sec. cor. Diligent search in this vicinity failed to reveal any trace of the original cor. of secs. 1, 2, 35 and 36.

Resurvey.

The cor. of Ts. 3 and 4 S., Rs. 29 and 30 E. is an iron post, 3 ins. in diam., projecting 12 ins. above ground, firmly set, properly marked on brass cap, and witnessed by a mound of stone, S. of cor.

No bearing trees.

Thence,

West, on a true line, bet. secs. 1 and 36.

Over mountainous land, thru. scattering timber and dense undergrowth. Descend 70 ft., over SW. slope.

- 14.30 Colorado Gulch, course S. 55° E.
- 37.00 Ascend 300 ft. over NE. slope to $\frac{1}{4}$ sec. cor.
- House near bottom of Colorado Gulch, brs. N. about 3 chs. dist.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor. of secs. 1 and 36, marked on brass cap,

1	S 36
$\frac{1}{4}$	S 1
	1921

and raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.

Continue over mountainous land, thru. scattering timber and dense undergrowth.

Ascend 750 ft., over NE. slope.

- 69.62 Spur, slopes NE.
- 73.00 Descend 100 ft., over NW. slope.
- Head of gulch, course NE. Thence along N. slope, ascending slightly to
- 78.45 Foot of cliff, bearing NW. and SE.
- Ascend 42 ft. over NE. slope, to
- 80.00 The true point for cor. of secs. 1, 2, 35 and 36 falls on face of cliff, where it cannot be satisfactorily monumented. Therefore, measure West, 0.70 chs. to
- 80.70 Set an iron post, 3 ft. long, 2 ins. in diam., over cross (x) marked on bed rock, and raise a mound of stone around post for witness cor. to cor. of secs. 1, 2, 35 and 36, marked on brass cap,

T3S	R29E
S35	S36
S 2	S 1
T4S	
1921	

from which,

A pine, 6 ins. in diam., brs. N. 45° E., 2 lks. dist.,

18 Resurvey of part of N. bdy. of Township 4 South, Range 29 East.

Chains.

marked WC T3S R29E S36 BT.

A pine, 10 ins. in diam., brs. N. 70° W., 53 lks.

dist., marked WC T3S R29E S35 BT.

No other trees within limits.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, scattering pine, oak, cedar and juniper.

Undergrowth, dense catclaw, scrub oak, manzanita and cacti.

BOOK 388

Completion of survey of N. bdy. of Township 4 South Range 29 East. 15

Chains.

- From the true point for cor. of secs. 1, 2, 35 and 36, West, on true line, on N. bdy. of sec. 2. Over mountainous land, thru. scattering timber and dense undergrowth.
- 0.38 Ascend 14 ft., over NE. slope, to Top of cliff, bearing NW. and SE., facing NE. Ascend 276 ft., over NE. slope.
- 0.70 The witness cor. to cor. of secs. 1, 2, 35 and 36, hereinbefore described.
- 16.58 Spur, slopes SE. Descend 30 ft., over S. slope.
- 25.65 Head of gulch, course SE. Ascend 295 ft., over E. slope.
- 32.61 Ridge, brs. N and S. Descend 240 ft., over W. slope, to
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. of sec. 35 only, marked on brass cap,

T3S 35
1921

and raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.

- 40.20 Descend slightly over W. slope, to (40.00 chs. East from cor. of secs. 2 and 3, T. 4 S., R. 29 E.) Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. of sec. 2 only, marked on brass cap,

T4S 2
1921

and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.

- 42.76 Descend 98 ft., over W. slope. Gulch, course NW. Ascend 40 ft., over NE. slope.
- 46.21 Point of spur, slopes N. Descend 421 ft., over NW. and N. slopes, to
- 66.62 Spur, slopes NW. Descend 140 ft., over W. slope, to
- 75.75 Head of gulch, course NW. Thence along steep N. slope. Descend 134 ft., to
- 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 34 and 35 only, marked on brass cap,

T3S R29E
S34 S35
S 2
T4S R29E
1921

from which,
A juniper, 20 ins. in diam., brs. N. 1° E., 6 lks. dist., marked T3S R29E S35 BT.
A pine, 6 ins. in diam., brs. N. 51° W., 18 lks. dist., marked T3S R29E S34 BT.

- 80.20 Ascend slightly over steep N. slope, to A point due North of the cor. of secs. 2, 3, 10 and 11, hereinafter described) Set an iron post 3 ft. long, 2 ins. in diam., 12 ins. in the ground to bed rock, supported by a mound of stone for closing cor. of secs. 2 and 3, marked on brass cap,

16 Completion of survey of North bdy. of T.4 S., R.29 E.

Chains.

T3S R29E

S34

S 3 | S 2
T4S | R29E

C C

1921

from which,

A juniper, 8 ins. in diam., brs. S. 24° E., 33 lks.
dist., marked CC T4S R29E S2 BT.A pine, 8 ins. in diam., brs. S. 61° W., 34 lks.
dist., marked CC T4S R29E S3 BT.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, scattering juniper, pine and cedar.

Undergrowth, dense manzanita, scrub oak, tesota, ocotilla
and other cacti.

West, on a true line on N. bdy. of sec. 3.

Over mountainous land, thru. scattering timber and dense
undergrowth.

Ascend 20 ft., over steep N. slope.

1.97 Spur, slopes NW.

Descend 360 ft., over SW. slope.

5.99 Graded trail, brs. NW. and SE.

12.30 Wash, 50 lks. wide, in gulch, course NW.

Ascend 50 ft., over NE. slope.

15.06 Power line, brs. NW. and SE.

16.27 Descend 57 ft., over N. slope.

21.10 Ascend 57 ft., over E. slope.

28.83 Spur, slopes N.

Descend 280 ft., over NW. slope, to

39.80 (40.00 chs. W. from cor. of secs. 34 and 35) Set an iron post,

3 ft. long, 1 in. in diam., 16 ins. in the ground to bed
rock, supported by a mound of stone, for $\frac{1}{4}$ sec. cor. of
secs. 3 and 34, marked on brass cap, $\frac{1}{4}$ S 34

S 3

1921

and raise a mound of stone, 3 ft. base, 2 ft. high, N.
of cor.From this cor., the SE. cor. (No. 2) of Tip Top patented
lode mining claim, Mineral Survey No. 1734, Greenlee
Gold Mountain Mining District, brs. S. 74° 20' W.

Descend 85 ft., over NW. slope.

43.31 Wash, 100 lks. wide in Placer Gulch, course SW., containing
small stream of water.

Ascend 376 ft., over SE. slope.

53.54 Spur, slopes SW. From this point, the SE. cor. (No. 2) of
Tip Top patented lode mining claim, Mineral Survey No.
1734, brs. S. 2° 30' E.

Descend 492 ft., over NW. slope.

64.41 Wash, 50 lks. wide in King Gulch, course S. 30° W.

Ascend 482 ft. over steep SE. and E. slopes to sec. cor.

69.19 Coronado R.R. track (narrow gauge) brs. N. and S. Loading
station brs. N. about 2 chs. dist.79.80 Set an iron post, 3 ft. long, 2 ins. in diam., 18 ins. in
the ground to bed rock, supported by a mound of stone
for cor. of secs. 3, 4, 33 and 34, marked on brass cap,

T3S | R29E

S33 | S34

S 4 | S 3

T4S

1921

BOOK 5338

Completion of survey of N. bdy. of Township 4 South, Range 29 East 17

Chains.

and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
Land, mountainous.
Soil, rocky, 4th rate.
Timber, scattering cedar, pine and juniper.
Undergrowth, dense manzanita, scrub oak, catclaw, ocotillo and other cacti.

West, on a true line, bet. secs. 4 and 33.
Over mountainous land, thru. scattering timber and dense undergrowth.

- 2.88 Ascend 55 ft., over E. slope.
- 3.28 From this point, N. cor. of house, brs. S. 0.04 chs. dist.
- Ridge, brs. N. and S.
- 4.78 Descend 294 ft., over W. slope to 16.56 ch. station.
- From this point, school house brs. N. 20° W. about 15 chs. dist.
- Hoist of Arizona Copper Co., brs. S. 67° 10' W.
- 8.09 Telephone line, brs. NE. and SW.
- 10.37 South wing old boarding house on line.
- 16.56 Wash in gulch, course SW. Thence along S. slope, descending 85 ft. to
- 22.80 Descend 140 ft. over SW. slope, to
- 26.19 Same wash, course NW.
- Ascend 25 ft. over NE. slope.
- 32.45 Point of spur, slopes N.
- Descend 340 ft., over NW. slope, to 1/4 sec. cor.
- 39.24 Aerial tram line, brs. N. 50° E. and S. 50° W.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground to bed rock, supported by a mound of stone. for 1/4 sec. cor., marked on brass cap,

1/4 S 33
 S 4
 1921

and raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.
From this cor., the NW. cor. (No. 2) of Keystone No. 8 patented lode mining claim, mineral survey No. 2160, Greenlee Gold Mountain Mining District, identical with the NE. cor. (No. 1) of Keystone No. 7 patented lode claim of same survey, brs. N. 38° 21 1/2' E., 7.16 chs. dist.

- 41.60 Descend 81 ft., over NW. slope.
- Graded trail, brs. N. and S.
- 42.74 Chase Creek, 100 lks. wide, in bottom of canyon, course SW.
- Ascend 625 ft., over E. slope.
- 43.80 Arizona, Copper Company's tram unloading station, brs. S. 6° E. about 2 chs. dist. Arizona Copper Company's tram loading station brs. S. 60° E.
- 43.90 Springerville Auto road brs. N. 50° E. and S. 50° W.
- 60.21 Ridge, brs. NW. and SE. near SE. end of same.
- Arizona Copper Company's tram loading station brs. S. 73 1/2° E.
- Descend 232 ft., over SW. slope.
- 72.18 Wash, 40 lks. wide, in gulch, course SE.
- Ascend 135 ft., over E. slope, to
- 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 4, 5, 32 and 33, marked on brass cap,

T3S | R29E
 S32 | S33
 S 5 | S. 4
 T4S
 1921

and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.

18 Completion of North bdy. of Township 4 South Range 29 East.

Chains.

Land mountainous.

Soil, rocky, 4th rate.

Timber, scattering juniper, cedar and pine.

Undergrowth, dense catclaw, scrub oak, tesota, ocotillo and other cacti.

West, on a true line, bet. secs. 5 and 32.

Over mountainous land, thru. scattering timber and dense undergrowth.

Ascend 1030 ft., over steep E. slope.

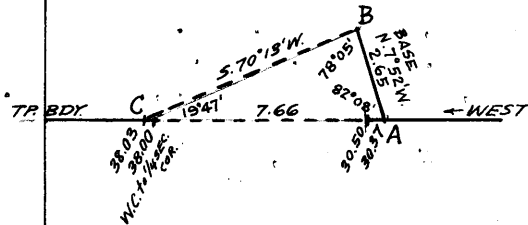
- 8.17 From this point, the NW. cor. (No. 3) of S.L.C.L. patented lode mining claim, Mineral Survey No. 3112, Greenlee Gold Mountain Mining District, brs. North, 0.45 chs. dist.

- 23.11 Graded trail, brs. N. and S.

- 30.37 Triangulation point on spur, slopes S.

Descend slightly over W. slope, to

- 30.50 Top of nearly perpendicular cliff, 300 ft. high, bearing N. and S., facing W. Beyond this point, the township line crosses a gulch, with impassable sides; therefore, obtain measurement across the gulch by triangulation, as described as follows, and as shown on the diagram hereon:



Set flag ahead on Tp. bdy. on top of spur on W. side of gulch, at point "C," on diagram.

From 30.37 ch. station, indicated on diagram at "A," measure a Base N. 7° 52' W., 2.65 chs. to point "B," which is as long a base as can be obtained.

Bearing of "B-C" = S. 70° 13' W.

Vertical angle from "A" to "C" = 0°.

Included angles of triangle "A-B-C" are 82° 08', 78° 05' and 19° 47', the sum of which is 180° 00'.

Triangulated measurement of "A-C" is obtained by

$$\frac{\text{side } 78^\circ 05' \times \text{Base}}{\text{side } 19^\circ 47'} \text{ or } \frac{.97845 \times 2.65}{.33846} = 7.66 \text{ chs., which}$$

added to 30.37 chs. gives 38.03 chs. West from cor. of secs. 4, 5, 32 and 33 for the position of triangulation point "C."

- 34.00 (Approximate) Gulch, course S.

Ascend 300 ft., over E. slope.

From triangulation point at 38.03 ch. station, chain measurement East, 0.03 chs. to

- 38.00 Top of cliff, bearing N. and S., facing E.

Set an iron post, 3 ft. long, 1 in. in diam., on bed rock, supported by a mound of stone, for witness cor. to $\frac{1}{4}$ sec. cor., marked on brass cap,

WC $\frac{1}{4}$ S 32
S 5
1921

and raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.

Thence,

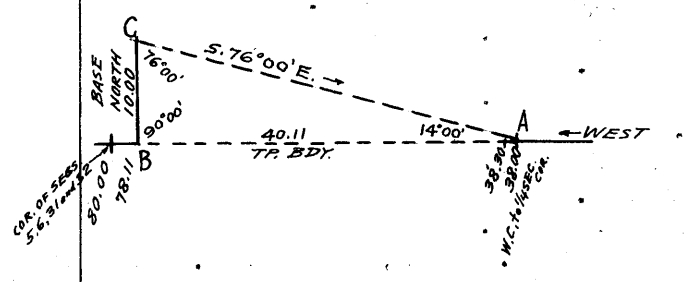
West, continuing measurement by chaining.

Ascend slightly over E. slope, to

Completion of North bdy. of Township 4 South, Range 29 East. 19

chains.

- 38.03 Spurs slopes S. point of sec. 4, to top of cliffs.
- 38.30 Top of cliffs, bearing N. and S. facing W., forming E. rim of Santa Rosa Gulch. Beyond this point, chaining is impracticable owing to the steep walls of the gulch; therefore, triangulate measurement of Tp. bdy. across the gulch, as described as follows, and as shown on the diagram hereon:



Set a high flag at the W.C. to $\frac{1}{4}$ sec. cor. indicated on diagram at "A." From point ahead on Tp. bdy. at W. rim of gulch indicated on diagram at "B," measure a Base, North, 10 chs. to "C." Vertical angle "A-B" = 0° . Vertical angle from "B" to bottom of gulch = -19° . Bearing "C-A" = S. $76^\circ 00'$ E.

Included angles of triangle "A-B-C" are $14^\circ 00'$, $90^\circ 00'$ and $76^\circ 00'$, the sum of which is $180^\circ 00'$. Triangulated measurement of "A-B" is obtained by Tang. $76^\circ 00' \times$ Base or $4.01078 \times 10.00 = 40.11$ chs., which, added to 38.00 chs. gives 78.11 chs. west from cor. of secs. 4, 5, 32 and 33 for the position of triangulation point "B."

- 40.00 True point for $\frac{1}{4}$ sec. cor. falls on W. face of cliffs on the E. side of Santa Rosa Gulch, and is inaccessible.
- 55.00 (Approximate) Bottom of Santa Rosa Gulch, 100 lks. wide, course S.
- 78.11 Ascend 525 ft., over E. slope, to Triangulation point at W. rim of Santa Rosa gulch, bearing N. and S.
- 80.00 Continue line and measurement by chaining. Ascend 56 ft., over NE. slope, to Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 5, 6, 31 and 32, marked on brass cap,

T3S	R29E
S31	S32
S 6	S 5
T4S	
1921	

and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.

Land, mountainous.
Soil, rocky; 4th rate.
Timber, scattering juniper and pine.
Undergrowth, dense manzanita, scrub oak and cacti.

-
- West, on a true line, bet. secs. 6 and 31. Over mountainous land, thru. scattering timber and dense undergrowth.
 - 4.91 Ascend 123 ft., over NE. slope, to Spur, slopes S. 65° E.
 - 17.51 Ascend 375 ft., over S. and SE. slopes to Ridge, brs. N. and S.
 - 28.57 Descend 320 ft. over W. slope. Wash, 20 lks. wide, in gulch, course S. Ascend 370 ft., over E. slope, to

20 Completion of North bdy. of Township 4 South, Range 29 East.

Chains.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$ S 31
 S 6
 1921

from which,

A pine, 10 ins. in diam., brs. N. $10\frac{1}{2}^{\circ}$ W., 31 lks. dist., marked $\frac{1}{4}$ S 31 BT.

A pine, 8 ins. in diam., brs. S. $82\frac{1}{2}^{\circ}$ W., 60 lks. dist., marked $\frac{1}{4}$ S 6 BT.

Ascend 110 ft., over E. slope.

44.83 Spur, slopes S. from Coronado Mountain.

Descend 115 ft., over W. slope.

49.53 Head of gulch, course S.

Ascend 163 ft., over SE. slope.

63.72 Ridge, brs. N. and S.

Descend 145 ft., over W. slope.

70.20 Head of gulch, course S.

Ascend 100 ft., over SE. slope.

76.78 Ridge, brs. N. 75° E. and West. Spur, slopes S. from ridge at this point. Desc. 75 ft. along top of ridge, to

80.94 The cor. of Ts. 3 S., Rs. 28 and 29 E., described in Book "J."

Continue along top of ridge, bearing E and W.

Descend 348 ft. to

97.65 Ridge turns to S. 55° W. Leave top of ridge, and descend 380 ft., over NW. slope to top of cliffs.

98.99 Graded trail, brs. N. and S.

111.75 Top of cliffs, bearing N. 55° E. & S. 55° W. facing NW. Set an iron post, 3 ft. long, 2 ins. in diam., 18 ins. in the ground to bed rock, supported by a mound of stone for witness cor. to closing cor. of T. 4 S., R. 29 E., marked on brass cap,

T3S R28E
 S36 WC CC
 T4S
 R29E
 S 6
 1921

from which,

An oak, 4 ins. in diam., brs. N. 71° E., 25 lks. dist., marked WC CC BT.

A juniper, 4 ins. in diam., brs. S. 38° E., 20 lks. dist., marked WC CC BT.

114.98 Descend 98 ft., over precipitous NW. face of cliffs to True point for closing cor. (NW. cor.) of T. 4 S., R. 29 E. falls on steep slope, where it is impracticable to monument the C.C. This point is 191 ft. below, and 3.98 chs. North of the cor. of Ts. 3 and 4 S., Rs. 28 and 29 E., which is an iron post, 3 ins. in diam., projecting 12 ins. above ground, firmly set, properly marked on brass cap, and witnessed by a mound of stone, S. of cor., and two bearing trees as follows:

A juniper, 6 ins. in diam., brs. S. $45\frac{1}{2}^{\circ}$ E., 15 lks. dist., marked T4S R29E S6 BT.

An oak, 6 ins. in diam., brs. S. $52\frac{1}{2}^{\circ}$ W., 70 lks. dist., marked T4S R28E S1 BT.

Alter this cor. to refer to T. 4 S., R. 28 E. only (NE. cor.) by obliterating the markings on the E. half of the brass cap,

Land, mountainous.

Soil, rocky, 4th rate.

Timber, scattering juniper and pine.

Undergrowth, dense manzanita, scrub oak and cacti.

BOOK 21

Resurvey of part of Subdivision lines of T.4 S., R.29 E. 21

Chains.

The subdivision lines of secs. 1, 2, 13 and 24, T.4 S., R. 29 E. were surveyed in February, 1882, by Theo. F. White, U.S.D.S., and no retracement or resurvey of any of these lines is of record.

Retracement for Resurvey:

- From the cor. of secs. 19, 24, 25 and 30, on the E. bdy. of Tp., hereinafter described,
West, on random line, bet. secs. 24 and 25 ($E. \frac{1}{2}$).
- 40.05 Fall 7 lks. S. of the original $\frac{1}{4}$ sec. cor., hereinafter described.
The true course and distance of $E. \frac{1}{2}$ of line, bet. secs. 24 and 25 are therefore N. 89° 54' W., 40.05 chs.
Thence,
West, on random line, bet. secs. 24 and 25 ($W. \frac{1}{2}$).
- 40.00 Diligent search in this vicinity fails to reveal any trace of the original cor. of secs. 23, 24, 25 and 26.
Set temp. cor. of secs. 24 and 25 at this point.

- From the temp. cor. of secs. 24 and 25,
North, on random line on W. bdy. of sec. 24.
- 40.00 Diligent search in this vicinity fails to reveal any trace of the original $\frac{1}{4}$ sec. cor.
Set temp. $\frac{1}{4}$ sec. cor. of sec. 24 at this point.
Continue line and measurement.
- 80.00 Fall 161 lks. W. of the original cor. of secs. 13, 14, 23 and 24, which now refers to secs. 13 and 24 only, as hereinafter described.
The true course and distance of the W. bdy. of sec. 24 are therefore N. 1° 9' E., 80.02 chs.

- From the original cor. of secs. 13, 14, 23 and 24,
North, on random line, west of secs. 13, 12, and 1, making diligent search at intervals of 40.00 chs. for the original cors. Find no trace of any of the original cors., and at
- 237.74 Fall 126 lks. E. of the point for cor. of secs. 1, 2, 35 and 36, on the N. bdy. of Tp., reestablished at 80.00 chs. W. from NE. cor. of the Tp., and witnessed at 70 lks. W. as hereinbefore described.
True course of the W. bdrs. of secs. 13, 12, and 1 is therefore N. 0° 18' W.
By proportion from the original record, the length of the $N. \frac{1}{2}$ of W. bdy. of sec. 1 will be 39.89 chs., and the other corner intervals will be 39.57 chs. each.

Resurvey:

The original cor. of secs. 19, 24, 25 and 30, on the E. bdy. of T.4 S., R.29 E. is a volcanic stone, 6x12x12 ins. above ground, firmly set, marked with 4 notches on N. edge, and 2 notches on S. edge, and witnessed by a mound of stone, W. of cor. No bearing trees.
Alongside old stone, set an iron post, 3 ft. long, 2 ins. in diam., 18 ins. in the ground to bed rock, supported by a mound of stone, for cor. of secs. 19, 24, 25 and 30, marked on brass cap,

T4S
R29E | R30E
S24 | S19
S25 | S30
1921

22 Resurvey of part of Subdivision lines of T. 4 S., R. 29 E.

Chains.

- Thence,
N. 89° 54' W., on a true line, bet. secs. 24 and 25 (E. $\frac{1}{2}$).
Over mountainous land, thru. scattering timber and dense
undergrowth.
Ascend 352 ft., over NE. slope.
30.62 Ridge, brs. NW. and SE.
Descend 30 ft., over SW. slope.
32.55 Wash, 20 lks. wide, course S. 20° E.
Ascend 160 ft., over NE. slope, to
40.05 Intersect the original $\frac{1}{4}$ sec. cor. of secs. 24 and 25, which
is a porphyry stone, 20x14x10 ins., marked $\frac{1}{4}$ on N. face,
with a cross (x) on top, firmly set in a large mound
of stone.
No bearing trees.
Thence,
West, on a true line, bet. secs. 24 and 25 (W. $\frac{1}{2}$). Over moun-
tainous land, thru. scattering timber and dense undergrowth.
Ascend slightly over NE. slope.
0.50 Ridge, brs. NW. and SE. Descend 30 ft., over SW. slope.
6.00 Head of wash, course S. Ascend 30 ft., over SE. slope.
10.45 Spur, slopes S.
Descend 131 ft. over W. slope.
15.04 Gulch, course S.
Ascend 57 ft. over E. slope.
21.04 Spur, slopes S.
Descend 195 ft., over SW. slope, to
40.00 Set an iron post, 3 ft. long, 2 ins. in diam., 8 ins. in
the ground to bed rock, supported by a mound of stone,
for cor. of secs. 24 and 25 only, marked on brass cap,

T4S
R29E
S24
S25

1921

and raise a mound of stone, 4 ft. base, 3 ft. high, E.
of cor.

Land, mountainous.
Soil, rocky, 4th rate.
Timber, scattering mesquite.
Undergrowth, dense catclaw, scrub oak, scrub mesquite,
tesota, ocotillo and other cacti.

- From the cor. of secs. 24 and 25,
N. 1° 9' E., on a true line, on W. bdy. of sec. 24.
Over mountainous land, thru. scattering timber and dense
undergrowth.
Ascend 237 ft., over SW. slope.
14.00 Descend 32 ft., over W. slope.
23.00 Ascend 125 ft., over SW. slope, to
33.16 (Midpoint of E. bdy. of sec. 23, or 39.97 $\frac{1}{2}$ chs. northing
from the cor. of secs. 23 and 26) Set an iron post,
3 ft. long, 1 in. in diam., 26 ins. in the ground, for
 $\frac{1}{4}$ sec. cor. of sec. 23 only, marked on brass cap,

S23

1921

- and raise a mound of stone, 3 ft. base, 2 ft. high,
W. of cor.
Descend 14 ft., over W. slope.
35.65 Ascend 76 ft., over SW. slope, to
40.01 (40.00 chs. northing from the cor. of secs. 24 and 25),
Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in
the ground to bed rock, supported by a mound of
stone, for $\frac{1}{4}$ sec. cor. of sec. 24 only, marked on brass cap,

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Resurvey of part of Subdivision lines of T. 4 S., R. 29 E. 23

Chains.

1/2 S24

1921

- and raise a mound of stone, 3 ft. base, 2 ft. high, E. of cor.
- Ascend 175 ft., over SW. slope.
- 51.13 Ridge, brs. NW. and SE.
- Descend 210 ft., over NE. slope.
- 61.39 Wash, in gulch, course S. 50° E.
- Ascend 220 ft., over SE. slope, to
- 73.14 Intersection of line bet. secs. 14 and 23, or 79.94 1/2 chs. northing from the cor. of secs. 23 and 26). The point for closing cor. of secs. 14 and 23, hereinafter described.
- Ascend 15 ft. over SE. slope to sec. cor.
- 79.65 Four wire fence, brs. E. and W.
- 80.02 Spur, slopes E. The original cor. of secs. 13, 14, 23 and 24, which is a porphyry stone, 10x6x5 ins. above ground, firmly set and marked with 3 notches on S. face, and 1 notch on E. face. No accessories.
- Alongside old stone, set an iron post, 3 ft. long, 2 ins. in diam., 18 ins. in the ground to bed rock, supported by a mound of stone for cor. of secs. 13 and 24 only, marked on brass cap,

S14 | T4S
 | R29E
 | S13
 | S24
 1921

and raise a mound of stone, 3 ft. base, 2 ft. high, E. of cor.
 Land, mountainous.
 Soil, rocky, 4th rate.
 Timber, scattering mesquite.
 Undergrowth, dense catclaw, scrub oak, scrub mesquite, ocotillo and other cacti.

-
- From the cor. of secs. 13 and 24,
 N. 0° 18' W. on a true line on W. bdy. of sec. 13.
 Over mountainous land, thru. scattering timber and dense undergrowth.
 - Descend 228 ft., over N. slope.
 - 10.95 Wash, 20 lks. wide, in gulch, course E.
 - Ascend 200 ft., over S. slope.
 - 18.56 Ridge, brs. E. and W.
 - Descend 280 ft., over N. slope.
 - 29.65 Wash, 100 lks. wide in gulch, course E.
 - Ascend 72 ft., over S. slope, to
 - 33.12 (Midpoint of E. bdy. of sec. 14, or 40.00 chs. northing from the closing cor. of secs. 14 and 23, hereinafter described) Set an iron post, 3 ft. long, 1 in. in diam., 24 ins. in the ground, for 1/4 sec. cor. of sec. 14, only, marked on brass cap,

1/2 S14

1921

- and raise a mound, 3 ft. base, 2 ft. high, W. of cor.
- Ascend 126 ft., over S. slope.
- 38.81 Spur, slopes E.
- Descend 10 ft., over N. slope, to
- 39.57 (Proportional dist.) Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for 1/4 sec. cor. of sec. 13 only; marked on brass cap,

24 Resurvey of part of Subdivision lines of T1 4 S., R.29 E.

Chains.

1/4 S13

1921

- and raise a mound of stone, 3 ft. base, 2 ft. high, E. of cor.
- Descend 120 ft., over N. slope.
- 43.50 Wash, 20 lks. wide in gulch, course E.
Ascend 295 ft., over S. slope.
- 59.32 Wire fence, brs. E. and W.
- 60.27 Ridge, brs. E. and W.
Descend 280 ft., over N. slope.
- 70.92 Wash, 50 lks. wide, course E.
Ascend 28 ft., over S. slope, to
- 73.12 Spur, slopes E.
The point of intersection of line bet. secs. 11 and 14, or 80.00 chs. northing from closing cor. of secs. 14 and 23. Closing cor. of secs. 11 and 14 established at this point, as hereinafter described.
- 79.14 Descend 16 ft., over NE. slope, to
(Proportional dist.) Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 12 and 13 only, marked on brass cap,

T4S

R29E

S11 | S12

| S13

1921

and raise a mound of stone, 3 ft. base, 2 ft. high, E. of cor.

Land, mountainous.
Soil, rocky, 4th rate.
Timber, scattering cedar and pine.
Undergrowth, dense catclaw, scrub oak, ocotillo and other cacti.

- N. 0° 18' W., on a true line, on W. bdy. of sec. 12.
Over mountainous land, thru. scattering timber and dense undergrowth.
- 12.55 Descend 30 ft., over NE. slope.
Wash in gulch, course SE.
Ascend 640 ft., over steep SW. slope.
- 25.93 Point of spur, slopes W.
Descend 105 ft. over NW. slope.
- 29.40 Ascend 15 ft., over SW. slope.
- 33.80 Foot of cliff, bearing NW. and SE., facing SW.
- 34.05 (Mid point of E. bdy. of sec. 11, or 40.07 chs. N. 0° 18' W. from the closing cor. of secs. 11 and 14, hereinafter described) The true point for 1/4 sec. cor. of sec. 11 on face of cliff, where it is impracticable to monument the cor.; therefore, at
- 34.25 Top of cliff, 20 ft. high, bearing NW. and SE. facing SW.,
Set an iron post, 3 ft. long, 1 in. in diam., on bed rock, supported by a mound of stone, for witness cor. to 1/4 sec. cor. of sec. 11 only, marked on brass cap,

WC

1/4 S11

1921

- and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.
- 39.57 Ascend 200 ft., over SW. slope, to
(Proportional dist.) Set an iron post, 3 ft. long, 1 in. in diam., on bed rock, supported by a mound of stone, for 1/4 sec. cor. of sec. 12 only, marked on brass cap,

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Resurvey of part of Subdivision lines of T.4 S., R. 29 E., 25

Chains.

1/2 S12

1921

- and raise a mound of stone, 3 ft. base, 2 ft. high, E. of cor.
- Ascend 175 ft., over SW. slope.
- 48.02 Point of spur, slopes W., an old aerial tram, brs. NW. and SE.
- Descend 160 ft., over N. slope.
- 49.20 Graded trail, brs. E. and W.
- 52.39 Wash, in gulch, course W.
- Ascend 710 ft., over SW. slope to closing cor. of secs. 2 and 11.
- 63.59 Old telephone line, brs. NW. and SE.
- 70.46 Same graded trail, brs. NW and SE.
- 74.12 Point of intersection of the line bet. secs. 2 and 11, or 80.14 chs. N. 9° 18' W. from the closing cor. of secs. 11 and 14. The closing cor. of secs. 2 and 11, established at this point, as hereinafter described.
- Ascend 57 ft., over SW. slope, to
- 78.96 Foot of cliff, bearing NW and SE., facing SW. about 69 ft. high. As the point for cor. of secs. 1 and 12 will fall on the face of this cliff.
- Set an iron post, 3 ft. long, 2 ins. in diam., 18 ins. in the ground to bed rock, supported by a mound of stone, for witness cor. to cor. of secs. 1 and 12 only, marked on brass cap,

W C
 T4S
 R29E
 S 1
 S12
 1921

- and raise a mound of stone, 3 ft. base, 2 ft. high, E. of cor:
- 79.14 (Proportional dist.) The true point for cor. of secs. 1 and 12 falls on face of cliff, where the cor. cannot be monumented.
- Land, mountainous.
- Soil, rocky, 4th rate.
- Timber, scattering cedar and pine.
- Undergrowth, dense catclaw, scrub oak, tesota, ocotillo and other cacti.

-
- From the true point, for cor. of secs. 1 and 12, N. 9° 18' W., on a true line, on W. bdy. of sec. 1.
 - Over mountainous land, thru. scattering timber and dense undergrowth.
 - Ascend over SW. face of cliff.
 - 0.50 Top of cliff, bearing NW and SE. facing SW.
 - Ascend 25 ft., over SW. slope.
 - 1.70 Point of spur, sloping W.
 - Descend 22 ft., over NW. slope.
 - 7.70 Ascend 322 ft., over SW. slope.
 - 23.22 Ridge, brs. NW. and SE.
 - Descend 130 ft., over NE. slope, to
 - 33.36 Head of gulch, course SE.
 - Ascend 80 ft., over S. slope, to
 - 34.98 (Midpoint of E. bdy. of sec. 2, or 40.00 chs. N. 9° 18' W. from the closing cor. of secs. 2 and 11, hereinafter described)
 - Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the ground to bed rock, supported by a mound of stone, for 1/4 sec. cor., of sec. 2 only, marked on brass cap,

1/2 S2

1921

26 Resurvey of part of Subdivision lines of T.4 S., R.29 E.

Chains.

- and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
- 39.57 Ascend, 167 ft., over S. slope, to
(Proportional dist.) Set an iron post, 3 ft. long, 1 in. in diam., 8 ins. in the ground, over a cross (x) marked on bed rock, and raise a mound of stone around post, for $\frac{1}{4}$ sec. cor. of sec. 1 only, marked on brass cap,
- | $\frac{1}{4}$ S 1
1921
- from which,
A pine, 12 ins. in diam., brs. S. 86° E., 139 lks. dist., marked $\frac{1}{4}$ S 1 BT.
No other trees within limits.
- 44.16 Ascend 140 ft., over S. slope.
Ridge, brs. E. and W.
- 62.35 Descend 895 ft., over N. slope.
Old mine buildings and smoke stack, bear E. about 9 chs. dist.
- 66.03 Wash, 100 lks. wide, in bottom of canyon, course E., known as Hickory Gulch.
Ascend 617 ft., over S. slope.
- 69.78 Intersect the N. side line (3-4) of the Golden Gate patented lode mining claim, Mineral Survey No. 3058, Greenlee Gold Mountain Mining District, at a point from which cor. No. 4 (NE. cor.) thereof, brs. S. $80^{\circ} 20'$ E., 11.28 chs. dist.
- 78.07 Spur, slopes E.
Descend 20 ft., over N. slope, to
- 79.12 Tbp of cliff, bearing E. and NW., facing NE.
- 79.46 (84.48 chs. N. $0^{\circ} 13'$ W. from closing cor. of secs. 2 and 11)
Intersect the true point for cor. of secs. 1, 2, 35 and 36, on the N. bdy. of the Tp. on NE. face of cliff, witnessed at 0.70 chs. W. as hereinbefore described.
- Land, mountainous.
Soil, rocky, 4th rate.
Timber, scattering cedar, juniper and pine.
Undergrowth, dense scrub oak, catclaw, manzanita, ocotillo, and other cacti.
-

OK 330

Survey of part (completion) of Subdivision lines of T.4 S. R.29 E. (27)

Chains.

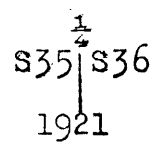
From the cor. of secs. 35 and 36, on the S. bdy. of the Tp., hereinbefore described, North, on a random line, bet. secs. 35 and 36, and 25 and 26, setting temp. 1/4 sec. and sec. cors. alternately, at intervals of 40.00 chs.; and at 166.82 chs. fall 10 lks. W. of the cor. of secs. 24 and 25, hereinbefore described.

The falling answers to a correction of 0°2', or 5 lks. E. per mile, counting from the cor. of secs. 35 and 36, on the S. bdy. of the Tp.; therefore, return to said cor.

Thence, N. 0°2' E., on a true line, bet. secs. 35 and 36.

Over mountainous land, thru. very scattering timber and dense undergrowth.

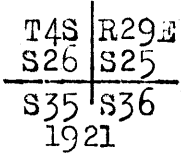
- 7.99 Ascend 33 ft., over SE. slope.
- Point of low spur, slopes S. 80° E.
- 13.98 Descend 20 ft., over NE. slope.
- Gully, course S. 55° E.
- 31.95 Ascend 68 ft., over SE. slope.
- Descend 25 ft., over E. slope.
- 36.63 Gully, course S. 50° E.
- Ascend 37 ft., over SE. slope, to
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground to bed rock, supported by a mound of stone, for 1/4 sec. cor., marked on brass cap,



and raise a mound of stone, 4 ft. base, 3 ft. high, W. of cor.

Four strand wire fence, brs. E. 15 lks. dist., running N. and S.

- 44.98 Ascend 30 ft., over SE. slope.
- Descend 40 ft., over E. slope.
- 50.13 Gully, course S. 60° E.
- Ascend 103 ft., over S. slope.
- 52.96 Four strand wire fence, brs. N. 0°40' W. and S. 0°40' E.
- 55.89 Point of spur, slopes S. 50° E.
- Descend 65 ft., over NE. slope.
- 66.93 Wash, 15 lks. wide, course S. 50° E.
- Ascend 120 ft., over S. slope.
- 79.58 Transmission line, brs. N. 37 1/2° W. and S. 37 1/2° E.
- 80.00 Point of spur, sloping S. 45° E. Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 25, 26, 35 and 36, marked on brass cap,



and raise a mound of stone, 4 ft. base, 3 ft. high, W. of cor.

Fence corner brs. N. 30° W., 75 lks. dist., from which fence extends W. and S.

Land, mountainous. Soil, rocky, 3rd rate. Timber, very scattering cedar. Undergrowth, dense greasewood, catclaw, black brush, rabbit brush, scrub mesquite and cacti.

- 40.00 East, on a random line, bet. secs. 25 and 36.
- Set temp. 1/4 sec. cor.
- 79.98 Fall 3 lks. S. of the cor. of secs. 25 and 36, on E. bdy. of Tp., hereinbefore described.

28 survey of part (completion) of Subdivision lines T.4 S. R.29 E.

Chains.

- Thence,
S. 89° 59' W., on a true line. bet. secs. 25 and 36.
Over mountainous land, thru. dense undergrowth.
Descend 105 ft., over SW. slope.
- 0.52 Morenci Southern railroad track, brs. N. and SE. on E. side
of horseshoe curve in same.
- 3.10 Gulch, course S. 20° E.
Ascend 390 ft. over E. slope.
- 10.40 Morenci Southern Railroad track, brs. N. and S. on W. side of
Horseshoe curve.
- 32.00 Road brs. N. and S. 75° W. Terminates at entrance to Clifton
Cemetery, 1.00 ch. N.
- 33.54 Spur, slopes S. 15° E.
Descend 50 ft., over SW. slope to $\frac{1}{4}$ sec. cor.
- 35.54 Five strand barb wire fence on S. side of Clifton Cemetery,
brs. N. 74 $\frac{1}{2}$ ° E. and S. 74 $\frac{1}{2}$ ° W.
Enter Clifton Cemetery.
- 37.05 Five strand barb wire fence on W. side of Clifton Cemetery,
brs. N. and S. at 40 lks. N. of SW. cor. of cemetery. Leave
cemetery.
- 37.62 Road to cemetery, brs. S. 45° E. and N. 45° W.
- 39.99 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,
- $\frac{1}{4}$ S 25
S 36
1921
- and raise a mound of stone, 4 ft. base, 3 ft. high, N.
of cor.
- Descend 128 ft., over SW. slope.
- 41.20 Morenci Southern Railroad track, brs. NW. and SE.
- 44.73 Bottom of ravine, course S. 10° E.
Ascend 152 ft., over E. slope.
- 54.72 Road brs. N. 15° E. and S. 15° W.
- 55.32 East edge of top of spur, brs. N. and S. Thence across
nearly level top of spur; sloping S.
- 63.82 West edge of top of spur, brs. N. and S. Leave top of
spur.
Descend 152 ft., over SW. slope.
- 66.16 Road brs. N. 45° W. and S. 45° E.
- 71.55 Morenci Southern Railroad track, Morenci to Guthrie, brs. N. 2
20 $\frac{1}{2}$ ° W. and S. 20 $\frac{1}{2}$ ° E.
- 75.10 Wash, 20 lks. wide, in bottom of ravine, course S. 10° E.
Ascend 90 ft., over E. slope, to
- 79.98 The cor. of secs. 25, 26, 35 and 36, on point of spur, sloping
S. 45° E.
- Land, mountainous.
Soil, rocky, 4th rate.
No timber.
Undergrowth, dense greasewood, catclaw, ocotillo and other
cacti.
-
- N. 0° 2' E., on a true line, on W. bdy. of sec. 25.
Over mountainous land, thru. dense undergrowth.
Descend 72 ft., over NE. slope.
- 8.43 Wash, 30 lks. wide, in bottom of ravine, course S. 60° E.
Ascend 112 ft., over SE. slope.
- 11.02 Morenci Southern Railroad track, Morenci to Guthrie, brs.
N. 80° W. and S. 80° E.
- 11.56 Spur track from same railroad, brs. E. and W. terminates
at gravel pit, the west end of which brs. E. 100 lks.
dist.
- 13.32 Road brs. E. and W.
- 28.81 Highway, Morenci to Clifton, brs. N. 45° E. and S. 45° W.
- 31.81 Spur, slopes E.
Descend 130 ft., over NE. slope.
- 33.79 Morenci Southern railroad track, brs. N. 45° W. and S. 45° E.

BOOK ONE

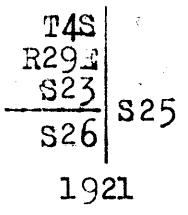
Survey of part (completion) of Subdivision lines of T.4 S., R. 29 E. 29

Chains.

35.76 Morenci-Clifton highway brs. NW. and SE.
 39.10 Gulch, course N. 80° E.
 Ascend 5 ft., over SE. slope, to
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in
 the ground to bed rock, supported by a mound of stone,
 for 1/4 sec. cor. of sec. 26 only, marked on brass cap,
 1/4 S26
 1921

and raise a mound of stone, 3 ft. base, 2 ft. high, W. of
 cor.
 Ascend 20 ft., over SE. slope.
 43.97 Spur, slopes N. 45° E.
 Descend 62 ft., over N. slope to 1/4 sec. cor. of sec. 25.
 44.96 Four wire telephone line, Morenci to Clifton, brs. N. 45° W.
 and S. 45° E.
 46.82 (40.00 chs. S. 0° 2' W. from the cor. of secs. 24 and 25),
 Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in
 the ground to bed rock, supported by a mound of stone,
 for 1/4 sec. cor. of sec. 25 only, marked on brass cap,
 1/4 S25
 1921

and raise a mound of stone, 4 ft. base, 3 ft. high, E. of
 cor.
 Descend 42 ft., over N. slope.
 48.26 Gulch, course N. 45° E.
 Ascend 5 ft., over SE. slope, to
 48.59 Morenci-Clifton Highway brs. N. and SE. Thence in Highway.
 Ascend 8 ft., to
 51.27 Leave Highway, brs. N. 40° W. and S.
 Descend 65 ft., over NE. slope.
 59.90 Gulch, course N. 80° W.
 Ascend 65 ft., over SE. slope.
 60.76 Spur, slopes N. 80° E.
 Descend 165 ft. over N. slope.
 63.83 Gulch, course N. 75° E.
 Ascend 35 ft. over SE. slope.
 69.80 Descend 80 ft., over NE. slope.
 75.13 Arizona and New Mexico Railroad track, narrow gauge, Met-
 calf to Clifton, brs. N. 51° 50' W. and S. 51° 50' E.
 78.83 Center of Chase Creek, 2 chs. wide, course S. 50° E. Ascend
 10 ft., over SW. slope, to cor. of secs. 23 and 26.
 79.60 Auto Highway, Metcalf to Clifton, brs. N. 70° W. and S. 70° E.
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 8 ins. in the
 ground to bed rock, supported by a mound of stone, for
 cor. of secs. 23 and 26 only, marked on brass cap,



and raise a mound of stone, 4 ft. base, 3 ft. high, W. of
 cor.
 Continue line and measurement.
 Ascend 197 ft., over SW. slope, to
 86.82 The cor. of secs. 24 and 25, hereinbefore described.
 Land, mountainous.
 Soil, very rocky, 4th rate.
 Timber, very scattering cedar.
 Undergrowth, dense greasewood, catclaw, black brush, rabbit
 brush, ocotillo, and other cacti.

30 Survey of part (completion) of Subdivision of T.4 S. R.29 E.

Chains.

- From the cor. of secs. 34 and 35, on S. bdy. of the Tp., here-
inbefore described,
N. 0° 1' E, bet. secs. 34 and 35.
Over mountainous land, thru. dense undergrowth.
- 5.00 Ascend 12 ft., over SE. slope, to
Wash, 30 lks. wide, course S. 15° E.
- 14.16 Ascend 50 ft., over SE. slope, to
Head of gully, course S. 30° E. Four strand wire fence, brs.
N. 70° E, and S. 70° W.
- 22.01 Ascend 50 ft., over SW. slope, to
Gully, course S. 30° W.
- 24.76 Ascend 80 ft., over SE. slope.
Point of spur, slopes S. 55° E.
- 28.70 Descend 65 ft., over NE. slope.
The W. edge of lake of tailings, about 10 acres in area,
brs. E. 5 chs. dist.
- 30.99 Gully, course S. 45° E.
Ascend 71 ft., over S. slope.
- 33.27 Triangulation station No. 631 of Detroit Copper Co., a $\frac{3}{4}$
in. steel, projecting 12 ins. above ground, set in
cement, brs. E. 18 lks. dist.
- 33.64 Narrow spur, slopes S. 70° E.
Descend 70 ft., over NE. slope.
- 38.03 Center of wash, 100 lks. wide, course S. 80° E.
Ascend 10 ft., over SE. slope, to
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

S34 | S35
1921

and raise a mound of stone, 4 ft. base, 3 ft. high, W.
of cor.

- 43.69 Ascend 12 ft., over SE. slope, to
Gully, course S. 45° E.
- 49.46 Ascend 45 ft., over S. slope.
Point of low spur, slopes S. 45° E.
- 56.46 Descend 15 ft., over NE. slope.
Wash, course S. 45° E. Road brs. N. 45° W. and S. 45° E.
- 64.24 Ascend 125 ft., over SW. slope.
Narrow spur, slopes S. 45° E.
- 64.29 Descend 75 ft. over NE. slope to gully.
Chimney of ranch house brs. E. about 30 chs. dist.
- 64.77 Tailings of ditch from Morenci Mill, 3 lks. wide, 2 ft.
deep, course S. 45° E. Enter tailings. Leave undergrowth.
- 74.17 Center of tailings, in gully, course S. 80° E. Dam brs.
West 5 chs. dist. Continue across tailings.
- 78.37 Ascend 42 ft., over SW. slope to sec. cor.
From this point, cor. No. 4 of "Bench No. 2" unpatented
placer mining claim, Mineral Survey No. 2448, Greenlee
Gold Mountain Mining District, brs. East 53 lks. dist.
- 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in
the ground, for cor. of secs. 26, 27, 34 and 35, marked
on brass cap,

T4S | R29E
S27 | S26
S34 | S35
1921

and raise a mound of stone, 4 ft. base, 3 ft. high, W.
of cor.

From this cor., chimney of same ranch house noted at 64.29
ch. station, brs. S. 45° 45' E.
Land, mountainous. Soil, rocky, 4th rate.
No timber.
Undergrowth, dense greasewood, scrub mesquite, catclaw,
black brush and cacti.

Book

Part (completion) of Subdivision lines of T.4 S., R.29 E. 31

Chains.

- S. 89° 59' E., on a random line, bet. secs. 26 and 35.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.04 Intersect N. and S. line, 5 lks. S. of the cor. of secs. 25, 26, 35 and 36, on point of spur, sloping S. 45° E.
Thence,
S. 89° 59' W. on a true line, bet. secs. 26 and 35.
Over mountainous land, thru. dense undergrowth.
Ascend slightly across top of long spur, sloping S. 45° E.
- 0.39 Four strand wire fence, brs. N. and S. turns to W. at 65 lks. N. of this point. Power transmission line, brs. S. 37 $\frac{1}{2}$ ° E. and N. 37 $\frac{1}{2}$ ° W.
- 2.02 Leave top of spur.
Descend 87 ft. over SW. slope.
- 16.85 Gulch, course S. 50° E. near head.
Ascend 80 ft., over E. slope.
- 24.45 Spur, slopes S.
Descend 83 ft., over W. slope.
- 30.30 Road, brs. N. and S. 15° W. Gate in E. and W. fence, brs. N. 40 lks. dist.
- 31.76 Gulch, course S. 15° E.
Ascend 81 ft. over E. slope.
- 36.61 Spur, slopes S.
Descend 38 ft., over SW. slope, to
- 40.02 Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground to bed rock, supported by a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$ S 26
 S 35
 1921.

- and raise a mound of stone, 4 ft. base, 3 ft. high, N. of cor.
- Descend 96 ft., over SW. slope.
- 40.17 Four strand wire fence, brs. N. and S. turns E. at 30 lks. N. of this point.
- 46.47 Gully, course S. 30° E.
Ascend 15 ft., over SE. slope.
- 50.75 NW. cor. of deserted house, brs. S. 40 lks. dist.
Descend 10 ft., over SW. slope.
- 56.40 Wash, 20 lks. wide, course N. 50° E. Wooden water tank, brs. S. about 5 chs. dist.
Ascend 43 ft., over E. slope.
- 60.93 Spur, slopes S. 45° E.
Descend 20 ft., over SW. slope.
- 64.14 Road, brs. N. and S., Morenci to Guthrie at E. edge of tailings dump. Leave undergrowth.
Ascend 50 ft., over E. slope.
- 68.37 E. edge of top of tailings dump, brs. N. 45° W. and S. 45° E.
Thence across top of tailings dump.
- 78.07 Tailings flume at W. edge of top of dump, brs. N. 45° W. and S. 45° E. Leave top of dump
Descend 23 ft., over bank of tailings.
- 80.04 The cor. of secs. 26, 27, 34 and 35.
Land, mountainous.
Soil, rocky, 4th rate:
No timber.
Undergrowth, dense greasewood, catclaw, black brush, rabbit brush, ocotillo and other cacti.

-
- N. 0° 1' E., bet. secs. 26 and 27
Over mountainous land, across tailings dump from Morenci Mill, brs. NW. and SE.
Ascend 22 ft., over SW. slope, to
 - 1.49 Flume at W. edge of top of tailings dump, brs. NW. and SE.;
thence across top of dump.
 - 10.56 Ascend 34 ft. over SW. slope on tailings, to
 - 12.30 Top of tailings bank brs. NW and SE.
Ascend slightly across top of tailings dump.

32 Part (completion) of Subdivision lines of T 4 S. R. 29 E.

Chains.

- 19.29 Leave top of tailings dump, and enter dense undergrowth. Ascend 41 ft., over SW. slope.
 20.88 Tailings flume, brs. NW. and SE.
 21.75 Spur, slopes SE. Old road, brs. NW. and SE.
 Descend 38 ft., over NE. slope.
 25.11 Graded road, brs. NW. and SE., Morenci to Guthrie.
 27.72 Wash, 6 lks. wide, course SE.
 Ascend 105 ft., over SW. slope.
 36.10 Spur, slopes SE.
 Descend 10 ft., over NE. slope, to
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$
 S27 | S26
 1921

and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.

- Descend 60 ft. over NE. slope.
 51.96 Wash, 20 lks. wide, course S. 30° E.
 Ascend 188 ft., over SW. slope.
 52.56 Eight inch water main, brs. N. 80° W. and S. 30° E.
 55.93 Old mine dump brs. E. 1.50 chs. dist.
 74.09 From this point, the NW. cor. of Morenci cemetery brs. E. 4.00 chs. dist.
 75.78 Ridge, brs. NW. and SE.
 Descend 36 ft., over NE. slope, to sec. cor.
 76.78 Road, brs. NW. and SE., Morenci to Cemetery.
 77.77 Old flume, brs. NW. and SE., draining SE.
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 22, 23, 26 and 27, marked on brass cap,

T4S | R29E.
 S22 | S23
 S27 | S26
 1921

and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.

Land, mountainous.
 Soil, rocky, 4th rate.
 No timber.
 Undergrowth, dense catclaw, tesota, ocotillo, and other cacti in N. 60 chs.

- 40.00 N. 89° 59' E., on a random line, bet. secs. 23 and 26
 Set temp. $\frac{1}{4}$ sec. cor.
 80.00 Intersect N. and S. line, 2 lks. S. of the cor. of secs. 23 and 26.
 Thence,
 S. 89° 58' W., on a true line, bet. secs. 23 and 26.
 Over mountainous land, thru. undergrowth.
 Ascend 28 ft., over SE. slope.
 2.46 Point of low spur, slopes S. Twelve wire telephone line, brs. NW. and SE., Metcalf to Clifton.
 Descend 45 ft., over SW. slope.
 3.79 Auto Highway, Metcalf to Clifton, brs. NW. and SE.
 5.08 Center of Chase Creek, 100 lks. wide, course S. 45° E.
 Ascend 296 ft., over NE. slope.
 6.05 Arizona and New Mexico Railroad-narrow gauge track, brs. NW. and SE., Metcalf to Clifton. From this point, cor. No. 2, Rattler patented mill site, Mineral Survey No. 1792B, Greenlee Gold Mountain Mining District, brs. S. 62° 30' W., 3.27 chs. dist.
 19.61 Descend 47. ft., over N. slope.

BOOK

Part (completion) of Subdivision lines of T. 4 S., R. 29 E. 33

Chains.	
25.65	Gulch, course N. 60° E. Ascend 235 ft., over NE. slope, to $\frac{1}{4}$ sec. cor.
36.28	Morenci Southern Railroad, narrow gauge track, brs. NW. and SE.
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,
	$\frac{1}{4}$ S 23
	S 26
	1921
	and raise a mound of stone, 4 ft. base, 3 ft. high, N. of cor.
	Ascend 200 ft., over SE. slope.
47.05	Highway, Morenci to Clifton, brs. N. 40° W. and S. 40° E.
48.70	Detroit Copper Mining Company's triangulation station No. 206, an iron rod and copper plate set in concrete, brs. N. 47° 5' W., 9.19 chs. dist.
49.00	Saddle in ridge, brs. NW. and SE. Four wire telephone line, brs. N. 71 $\frac{1}{2}$ ° W. and S. 37 $\frac{1}{2}$ ° E. Descend 92 ft., over SW. slope.
57.37	Morenci Southern Railroad track, Morenci to Guthrie, brs. N. 19 $\frac{1}{2}$ ° W. and S. 19 $\frac{1}{2}$ ° E.
57.88	Power transmission line, brs. N. 67° W. and S. 14° E.
59.81	Foot of descent at E. edge of tailings dump, from Morenci Mill, brs. NW. and SE. Thence across dump. Ascend 6 ft., to
64.81	West edge of tailings dump, brs. NW. and SE. Leave dump. Ascend 30 ft.
66.76	Point of low spur, slopes S. 10° E. Descend 34 ft. over SW. slope.
73.74	Two wire telephone line, brs. NW. and SE.
74.84	Gully, course S. 50° E. Four wire electric light line, brs. N. 40° W. and S. 40° E. Ascend 50 ft., over NE. slope, to
80.00	The cor. of secs. 22, 23, 26 and 27. Land, mountainous. Soil, rocky, 4th rate. No timber. Undergrowth, dense greasewood, black brush, tesota, ocotillo and other cacti.

	North, on Sectional Guide Meridian, bet. secs. 22 and 23. Over mountainous land, thru. dense undergrowth. Descend 18 ft., over NE. slope.
1.98	Gully, course SE. Ascend 90 ft., over SW. slope.
6.93	Graded road, brs. NW. and SE.
8.22	Four wire electric light line, brs. N. 32° W. and S. 32° E.
8.92	Wire fence, brs. NW. and SE.
10.40	Spur, slopes SE. Two wire telephone line, brs. N. 32° W. and S. 32° E. Descend 52 ft., over NE. slope.
14.92	Six wire power transmission line, with steel towers, brs. N. 32° W. and S. 32° E.
17.52	Wire fence brs. NW. and SE.
19.90	Ascend 30 ft., over SE. slope.
22.86	Four wire telephone line, brs. NW. and SE.
23.86	From this point, Morenci Pest House brs. E. about 3 chs. Descend 17 ft., over NE. slope.
34.50	Ascend 42 ft., over SW. slope.
37.35	Flume brs. NW. and SE.
37.65	Auto Highway, Morenci to Clifton, brs. N. 63° W. and S. 63° E.
38.02	Morenci Southern Railroad track, Morenci to Guthrie, brs. N. 63° W. and S. 63° E.
39.00	Ridge, brs. NW. and SE. Descend slightly over NE. slope, to

34. Part (completion) of Subdivision lines of T.4 S. R.29 E.

Chains.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$
 S22 | S23
 1921

and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.

Descend 275 ft. over NE. slope.

59.17 Four wire telephone line, brs. NW. and SE.

62.00 Morenci-Southern old narrow gauge railway track, brs. NW. and SE.

64.50 Gulch, course E.

Ascend 135 ft. over SE. slope.

68.44 Morenci-Southern narrow gauge railroad track, brs. NE. and SW.

70.65 Point of spur, sloping NE and east end of cliff, 30 ft. high, bearing NW. and SE. facing NE. From this point,

House brs. S. 88° E.

House brs. S. 77° E.

House brs. S. 60° E.

Descend 160 ft., over NE. slope to sec. cor.

77.82 Morenci-Southern old narrow gauge railroad track, brs. NW. and SE.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 14, 15, 22 and 23, marked on brass cap,

T4S	R29E
S15	S14
S22	S23

 1921

from which,

A pine, 5 ins. in diam., brs. N. $86\frac{3}{4}^{\circ}$ E., 27 lks. dist., marked T4S R29E S14 BT.

A pine, 4 ins. in diam., brs. S. 85° E., 24 lks. dist., marked BT.

A mesquite, 4 ins. in diam., brs. S. $63\frac{1}{2}^{\circ}$ W., 87 lks. dist., marked BT.

A pine, 4 ins. in diam., brs. N. 2° W., 100 lks. dist., marked BT.

From this cor., farm house, brs. N. $13\frac{1}{2}^{\circ}$ W.

Mouth of tunnel brs. N. $20\frac{1}{4}^{\circ}$ W.

Land, mountainous.

Soil, rocky, 4th rate.

No timber, except occasional cedar and pine trees.

Undergrowth, dense scrub cedar, scrub pine, scrub oak, catclaw, tesota, ocotillo and other cacti.

East, on a true line, bet. secs. 14 and 23.

Over mountainous land, thru. very scattering timber and dense undergrowth.

Descend 228 ft., over NE. slope.

5.41 Twelve wire telephone line, brs. NW. and SE.

6.74 Arizona and New Mexico Railroad, narrow gauge track, Metcalf to Clifton, brs. N. and S.

7.66 Center of Chase Creek, 100 lks. wide, course S. 30° E.

Ascend 218 ft., over SW. slope.

9.00 Highway, Metcalf to Clifton, brs. N. 30° W. and S. 30° E.

19.49 Point of spur, slopes S.

Descend 162 ft., over SE. slope.

25.14 Center of wash, 1.50 chs. wide, course SW.

Ascend 320 ft., over NW. slope to $\frac{1}{4}$ sec. cor.

OK

Part (completion) of Subdivision lines of T.4 S., R. 29 E.

35

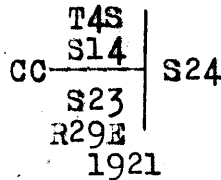
Chains.

27.62
40.00

40.74

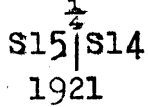
40.98
47.53
63.08
69.36
81.50

Old road brs. NE. and SW.
Set an iron post, 3 ft. long, 1 in. in diam., 24 ins. in the ground, for 1/4 sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 14
S 23
1921
and raise mound of stone, 3 ft. base, 2 ft. high, N. of cor. Ascend 11 ft., over NW. slope.
From this point, houses given at 70.65 ch. station on line bet. secs. 22 and 23, bear in the same order, S. 63° W., S. 69° W., and S. 51° W., respectively.
Spur, slopes SW. Desc. 47 ft., over SE. slope.
Gulch, course SW. Asc. 270 ft., over W. slope.
Ridge, brs. N. and S. Desc. 45 ft. over SE. slope to closing cor.
Wire fence, brs. NE. and SW.
Intersect the W. bdy. of sec. 24, 6.88 chs. S. 1° 9' W. from the cor. of secs. 13 and 24, hereinbefore described.
At point of intersection,
Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in the ground, for closing cor. of secs. 14 and 23, marked on brass cap,

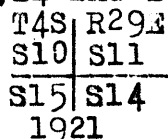


and raise mound of stone, 3 ft. base, 2 ft. high, W. of cor. Land, mountainous.
Soil, rocky, 4th rate.
Timber, very scattering cedar.
Undergrowth, dense scrub cedar, scrub oak, catclaw, manzanita, tesota, ocotillo, and other cacti.

From the cor. of secs. 14, 15, 22 and 23, North, on Sectional Guide Meridian, bet. secs. 14 and 15. Over mountainous land, thru. very scattering timber and dense undergrowth. Desc. 210 ft., over NE. slope.
6.53 Twelve wire telephone line, brs. N. 40° W. and S. 40° E.
8.72 Arizona and New Mexico Railroad, narrow gauge track, Metcalf to Clifton, brs. N. 40° W. and S. 40° E.
10.96 Center of Chase Creek, 100 lks. wide, course SE. Asc. 520 ft.
12.46 Auto Highway, Metcalf to Clifton, brs. NW. and SE.
23.56 From this point, tram loading station on Arizona and New Mexico Railroad, brs. N. 67 1/2° W. The SE. cor. of Punto Blanco patented lode mining claim, Mineral Survey No. 2885, Greenlee Gold Mountain Mining District, brs. S. 13° 10' E. Desc. 35 ft., over NW. slope.
29.95 Ascend 190 ft., over SW. slope, to
40.00 Ridge, brs. NW. and SE. near SE. end of same. Set an iron post, 3 ft. long, 1 in. in diam., 24 ins. in the ground, for 1/4 sec. cor., marked on brass cap,



and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
From this cor., tram loading station, brs. N. 87 1/2° W. Descend 75 ft., over NE. slope.
49.50 Thence along E. slope. Asc. 30 ft. to wash.
51.38 Old mine brs. W. about 1 ch. dist.
54.39 Two old mine shacks bear East about 2 chs. dist.
55.39 Old road, brs. E. and W.
64.67 Wash, course SE. Asc. 245 ft., over SW. slope.
77.59 Point of spur, slopes W. Desc. 28 ft. over NW. slope, to
80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 18 ins. in the ground to bed rock, supported by a mound of stone for cor. of secs. 10, 11, 14 and 15, marked on brass cap,



36 part(completion) of Subdivision lines of T.4 S. R.29 E.

Chains.	<p>from which, An oak, 4 ins. in diam., brs. N. 45° E., 6 lks. dist., marked BT. No other trees within limits; raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor. Land, mountainous. Soil, rocky, 4th rate. Timber, very scattering pine, cedar and oak. Undergrowth, dense catclaw, scrub oak, tesota, ocotillo, and other cacti.</p>
	<p>----- East, on a true line, bet. secs. 11 and 14. Over mountainous land, thru. very scattering timber and dense undergrowth. Asc. 510 ft., over NW. slope. 12.67 Spur, slopes SW. Desc. 310 ft., over SE. slope. 21.12 Gulch, course S. Asc. 320 ft., over W. slope. 36.41 Ridge, brs. N. and S. Desc. 125 ft., over E. slope, to 1/4 sec. cor. 37.21 From this point, the SE. cor. of Punto Blanco patented lode mining claim, Mineral Survey No. 2885, Greenlee Gold Mountain Mining District, brs. S. 14° 10' W. 40.00 Set an iron post, 3 ft. long, 1 in. in diam., on bed rock, sup- ported by a mound of stone, for 1/4 sec. cor., marked on brass cap,</p>
	<p style="text-align: center;"> S 11 1/4 S 14 1921 and raise mound of stone, 3 ft. base, 2 ft. high, N. of cor. Descend 510 ft., over E. slope. 45.22 Graded trail brs. NE. and SW. 61.17 Wash, 20 lks. wide, in gulch, course S. Asc. 170 ft. over W. slope. 68.58 Ridge, brs. N. and S. Spur, slopes E. from this point. Descend 500 ft., along top of spur, to 81.17 Intersect W. bdy. of sec. 13 at a point 6.02 chs. S. 0° 18' E. from cor. of secs. 12 and 13, hereinbefore described. At point of intersection, set an iron post, 3 ft. long, 2 ins. in diam., on bed rock, supported by a mound of stone, for closing cor. of secs. 11 and 14, marked on brass cap,</p>
	<p style="text-align: center;"> T4S CC S11 S13 S14 R29E 1921 and raise mound of stone, 3 ft. base, 2 ft. high, W. of cor. Land; mountainous. Soil, rocky, 4th rate. Timber, very scattering cedar and pine. Undergrowth, dense manzanita and scrub oak, catclaw, tesota, ocotille and other cacti.</p>
	<p>----- From cor. of secs. 10, 11, 14 and 15, North, on Sectional Guide Meridian, bet. secs. 10 and 11. Over mountainous land, thru. very scattering timber and dense undergrowth. Desc. slightly over NW. slope. 0.50 Enter wash, course S. 10° W. from N. Asc. 32 ft. along bottom of of wash, to 3.76 Leave wash, course S. from NE. Asc. 208 ft. over SE. slope. 12.94 Point of spur, slopes SE. Desc. 25 ft., over NE. slope. 14.91 Gulch, course SE. Asc. 332 ft., over SW. slope, to 19.26 Spur, slopes SE. Thence along E. slope, ascending 176 ft. to 29.00 Descend 37 ft., over NE. slope. 30.70 Ascend 210 ft., over SE. slope, to 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 24 ins. in the ground, for 1/4 sec. cor., marked on brass cap,</p>
	<p style="text-align: center;"> S10 S11 1921 and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor. Ascend 170 ft., over SE. slope, to 48.50 Head of gulch, course S. 20° E. Asc. 545 ft. over SW. slope. 53.16 From this point, cor. No. 3 of Sun Set patented lode mining claim, Mineral Survey No. 2709, Greenlee Gold Mountain Mining District, brs. E. 5 lks. dist.</p>

BOOK

Part (completion) of Subdivision lines of T.4 S. R. 29 E. 37

Chains.

60.35 Ridge, brs. NW. and SE.
 Ascend 51 ft., over E. and SE. slopes, to
 67.80 Spur, slopes E. Desc. 80 ft. over NE. slope, to
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the
 ground, for cor. of secs. 2, 3, 10 and 11, marked on brass
 cap,

T4S	R29E
S 3	S 2
S10	S11
1921	

from which,
 A pine, 12 ins. in diam., brs. S. 47 $\frac{1}{2}$ ° E., 100 lks.
 dist., marked T4S R29E S11 BT.
 No other trees within limits; raise a mound of stone, 3
 ft. base, 2 ft. high, W. of cor. From this cor.,
 U. S. L. M. No. 1576 brs. N. 56 $\frac{1}{2}$ ° E.

Land, mountainous.
 Soil, rocky, 4th rate.
 Timber, very scattering cedar and pine.
 Undergrowth, dense manzanita, scrub oak, catclaw, te-
 sota, ocotillo and other cacti.

East, on a true line, bet. secs. 2 and 11.
 Over mountainous land, thru. scattering timber and dense
 undergrowth. Desc. 1025 ft. over NE. and E. slopes.

5.67 Old mine, brs. N. about 1 ch. dist.
 22.65 From this point, U. S. L. M. No. 1576, Greenlee Gold Mountain
 Mining District, brs. N. 37 $\frac{1}{2}$ ° E.
 A house on ridge, near mineral monument, brs. N. 31° 38' E.
 31.27 Graded trail brs. N. 30° W. and S. 30° E.
 34.66 Wash. 20 lks. wide, in bottom of canyon, course S. 20° E.
 Ascend 77 ft., over SW. slope, to
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in
 the ground to bed rock, supported by a mound of stone,
 for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$ S	2
S 11	
1921	

from which,
 A pine, 12 ins. in diam., brs. N. 32 $\frac{1}{2}$ ° E., 67 lks.
 dist., marked $\frac{1}{4}$ S 2 BT.
 A pine, 10 ins. in diam., brs. S. 47 $\frac{1}{2}$ ° E., 33 lks.
 dist., marked $\frac{1}{4}$ S 11 BT.

Ascend 195 ft., over SW. slope.
 46.21 Graded trail, brs. N. and S.
 48.47 Saddle in spur, sloping S. Graded trail brs. N. 3° W. and S. 3°
 E. Desc. 125 ft., over E. slope.
 51.36 Same graded trail, brs. NE. and SW.
 54.81 Gulch, course S. Asc. 265 ft., over W. slope.
 57.66 Same graded trail, brs. N. 35° W. and S. 35° E.
 66.37 Ridge, brs. N. and S. Old aerial tram brs. N. 35° W. and S. 35° E.
 Descend 287 ft., over E. slope.
 71.69 Same graded trail, brs. N. and S.
 74.89 Gulch, course S.
 Ascend 265 ft., over W. slope to closing cor.
 77.96 From this point, cor. No. 3 of Golden Rod patented lode
 mining claim, Mineral Survey No. 1865, Greenlee Gold
 Mountain Mining District, brs. N. 44 $\frac{1}{2}$ ° W., 1.49 chs. dist.
 78.09 Same graded trail, brs. N. and S.
 80.78 Intersect the W. bdy. of sec. 12, 5.02 chs. S. 0° 18' E., from the
 true point for cor. of secs. 1 and 12, witnessed at 18
 lks. S. 0° 18' E., as hereinbefore described.
 At the point of intersection,
 Set an iron post, 3 ft. long, 2 ins. in diam., 12 ins. in

38. Part (Completion) of Subdivision lines of T. 4 S., R. 29 E.

Chains.

the ground to bed rock, supported by a mound of stone, for closing cor. of secs. 2 and 11, marked on brass cap,

T4S	
S 2	S12
S11	
R29E	
1921	

and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, scattering cedar and pine.

Undergrowth, dense manzanita, catclaw, scrub oak and cacti.

From the cor. of secs. 2, 3, 10 and 11.

North, on Sectional Guide Meridian, bet. secs. 2 and 3.

Over mountainous land, thru. scattering timber and dense

undergrowth, over rolling NE. and E. slopes to $\frac{1}{4}$ sec. cor.

Descend 301 ft.

15.05 Ascend 14 ft.

16.33 Descend 106 ft.

21.65 Ascend 126 ft.

29.70 Descend 120 ft. to $\frac{1}{4}$ sec. cor.

32.64 From this point, cor. No. 1 of Raton No. 2 patented lode mining claim, Mineral Survey No. 2907, Greenlee Gold Mountain Mining District, brs. West, 72 lks. dist.

38.00 From this point, prospect hole, brs. East 10 lks. dist.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in the ground to bed rock, supported by a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,

S 3	S 2
-----	-----

1921

from which,

A pine, 8 ins. in diam., brs. N. $45\frac{1}{2}^{\circ}$ E., 28 lks. dist., marked $\frac{1}{4}$ S 2 BT.

A pine, 8 ins. in diam., brs. S. $66\frac{3}{4}^{\circ}$ W., 25 lks. dist., marked $\frac{1}{4}$ S 3 BT.

From this cor., U.S.L.M. No. 1576, Greenlee Gold Mountain Mining District, brs. S. $77^{\circ}47'$ E.

From U.S.L.M. No. 1576,

The witness cor. to cor. of secs. 1 and 12, brs. S. $54^{\circ}12'$ E.

The cor. of secs. 13 and 24, brs. S. $10^{\circ}43'$ E.

Smokestack of Clifton Smelter, brs. S. $16^{\circ}51'$ E.

Ascend 15 ft., over SE. slope.

44.50 Low saddle in ridge, bearing NE. and SW.

Descend 40 ft., over NW. slope.

46.50 Graded trail, brs. NW. and SE.

53.66 Wash, 20 lks. wide, course W.

Ascend 146 ft., over S. slope.

66.47 From this point, cor. No. 5 of Mikado patented lode mining claim, Mineral Survey No. 2907, Greenlee Gold Mountain Mining District, brs. S. $35^{\circ}40'$ W.

68.06 Ridge, brs. E. and W. From this point, cor. No. 5 of Mikado patented lode mining claim, Mineral Survey No. 2907, brs. S. $30^{\circ}10'$ W. Desc. 166 ft., over N. slope.

68.66 Power transmission tower, brs. West, about 1.30 chs. dist.

69.96 Graded trail, brs. NE. and SW.

71.53 Wash, 20 lks. wide, in gulch, course W.

Part (completion) of subdivision lines of T. 4 S., R. 29 E. 39

Chains.

- Ascend 138 ft., over SW.slope.
 73.00 Trail, brs. NW. and SE.
 82.35 Spur, slopes NW.
 Descend 120 ft., over N.slope, to
 84.18 Intersect the N. bdy. of the Tp. at a point 0.20 chs.
 West of the cor. of secs. 34 and 35, T.3 S., R.29 E.,
 hereinbefore described.
 At the point of intersection,
 Set an iron post, 3 ft. long, 2 ins. in diam., 12 ins. in
 the ground to bed rock, supported by a mound of stone,
 for closing cor. of secs. 2 and 3, marked on brass
 cap,

T3S R29E	
S34	
S 3	S 2
T4S	R29E
C/C	
1921	

from which,

- A juniper, 8 ins. in diam., brs. S. 24° E., 33 lks.
 dist., marked CC T4S R29E S2 BT.
 A pine, 8 ins. in diam., brs. S. 61° W., 34 lks.
 dist., marked CC T4S R29E S3 BT.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, scattering cedar and juniper.

Undergrowth, dense manzanita, scrub oak, tesota, ocotillo
 and other cacti.

- From the cor. of secs. 33 and 34, on the S. bdy. of the Tp.,
 hereinbefore described,
 North, bet. secs. 33 and 34.
 Over mountainous land, thru. scattering undergrowth.
 Ascend 85 ft., over SW.slope.
 5.86 Point of spur, slopes S. 70° W.
 Descend 25 ft., over NW.slope.
 10.15 Gully, course S. 65° W.
 Ascend 72 ft., over SW.slope.
 13.26 Point of spur, slopes S. 70° W.
 Descend 38 ft., over NW.slope.
 16.60 Gully, course S. 65° W.
 Ascend 267 ft., over SW.slope.
 33.51 Saddle in ridge, brs. N. 45° W. and S. 30° E.
 Descend 140 ft., over NE.slope.
 39.85 Gulch, course S. 80° E. near head.
 Ascend slightly over SE. slope, to
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 8 ins. in the
 ground to bed rock, supported by a mound of stone, for
 1/4 sec. cor., marked on brass cap,

S33	S34
1921	

and raise a mound of stone, 4 ft. base, 3 ft. high, W.
 of cor.

- Ascend 40 ft., over SE.slope.
 43.44 Point of spur, slopes S. 70° E.
 Descend 35 ft., over NE.slope.
 46.29 Gulch, course S. 70° E. near head.
 Ascend 465 ft., over SE.slope.
 78.38 Ridge, brs. NE. and SW. turns to north at about 3 chs. NE.
 Saddle brs. SW. about 3 chs. dist.
 Ascend 100 ft., over W.slope, to

40 Part (completion) of Subdivision lines of T.4 S. R.29 E.

Chains.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 10 ins. in the ground to bed rock, supported by a mound of stone, for cor. of secs. 27, 28, 33 and 34, marked on brass cap,

T4S	R29E
S28	S27
S33	S34
1921	

and raise a mound of stone, 4 ft. base, 3 ft. high, W. of cor.

Land, mountainous.

Soil, rocky, 4th rate.

No timber.

Undergrowth, dense greasewood, catclaw, scrub mesquite, black brush, ocotillo and cacti.

S. 89° 59' E., on a random line, bet. secs. 27 and 34.

40.00 Set temp. 1/4 sec. cor.

80.00 Intersect N. and S. line, 5 lks. N. of the cor. of secs. 26, 27, 34 and 35.

Thence,

N. 89° 57' W., on a true line, bet. secs. 27 and 34.

Over mountainous land.

Ascend 60 ft., over tailings dump bearing NW. and SE.

8.06 Tailings flume from Morenci Mill, brs. N. 20° W. and S. 20° E. draining SE.

Descend 35 ft., over tailing dump to

23.05 West edge of tailing dump, brs. N. 20° W. and S. 20° E. Enter dense undergrowth.

Ascend 62 ft. over E. slope.

29.48 Ridge, brs. N. 45° W. and S. 45° E.

Descend 75 ft., over SW. slope.

36.00 Center of wash, 30 lks. wide, course S. 50° E. from W. in bottom of ravine. Thence along wash.

Ascend 14 ft. to

40.00 South side of wash. Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground to bed rock, supported by a mound of stone, for 1/4 sec. cor., marked on brass cap,

1/4 S 27
S 34
1921

and raise a mound of stone, 4 ft. base, 3 ft. high, N. of cor.

Continue along wash and bottom of ravine.

Ascend 18 ft. to

45.66 Leave wash, and bottom of ravine, course E. from N. 70° W.

Ascend 240 ft., over N. slope.

58.60 Point of short rocky spur, slopes N.

Descend 10 ft., over NW. slope, to

60.86 Gulch, course N. 45° E. near head.

Ascend 487 ft. over E. slope.

77.03 Ridge, brs. N. and S. turns to NW. at about 3 chs. N. and to SW. at about 1 ch. S. of this point.

Descend 28 ft., over W. slope, to

80.00 The cor. of secs. 27, 28, 33 and 34.

Land, mountainous.

Soil, rocky, 4th rate.

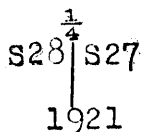
No timber.

Undergrowth, dense catclaw, scrub mesquite, black brush, ocotillo and other cacti in W. 57 chs.

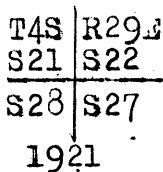
Part (completion) of Subdivision lines of T.4 S., R.29 E. 41

Chains,

- North, bet. secs. 27 and 28.
Over mountainous land, thru. dense undergrowth.
- 5.50 Ascend 10 ft., over W. slope.
- 19.99 Saddle in ridge, bearing N. 45° W. and S. 45° E.
Descend 235 ft. over broken NE. slope.
- 22.03 Gulch, course N. 55° E. near head.
Ascend 5 ft., over SE. slope.
- 24.91 Spur, slopes N. 50° E.
Descend 76 ft., over N. slope.
- 29.89 Gulch, course N. 50° E.
Ascend 47 ft., over SE. slope.
- 36.74 Point of spur, slopes N. 50° E.
Descend 91 ft., over NE. slope.
- 38.42 Head of gulch, course N. 50° E.
Ascend 17 ft., over SE. slope.
- 40.00 Point of spur, slopes N. 45° E.
Descend 16 ft., over NE. slope, to
Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in
the ground, to bed rock, supported by a mound of stone,
for $\frac{1}{4}$ sec. cor., marked on brass cap,



- and raise a mound of stone, 4 ft. base, 3 ft. high, W. of
cor.
- 45.99 Descend 66 ft., over NE. slope.
- 49.93 Gulch, course N. 70° E.
Ascend 60 ft., over SE. slope.
- 62.33 Point of low spur, slopes S. 60° E.
Descend 20 ft., over NE. slope.
- 73.70 Wash, 20 lks. wide, in bottom of ravine, course S. 30° E.
Ascend 172 ft. over SW. slope.
- 80.00 Ascend 28 ft., over W. slope, to
Set an iron post, 3 ft. long, 2 ins. in diam., 8 ins. in
the ground to bed rock, supported by a mound of stone,
for cor. of secs. 21, 22, 27 and 28, marked on brass
cap,



and raise a mound of stone, 4 ft. base, 3 ft. high, W. of
cor.

Land, mountainous.
Soil, rocky, 4th rate.
No timber.
Undergrowth, dense catclaw, greasewood, scrub mesquite,
black brush, rabbit brush and cacti.

-
- 40.00 S. 89° 57' E., on a random line, bet. secs. 22 and 27.
Set temp. $\frac{1}{4}$ sec. cor.
 - 80.00 Intersect the cor. of secs. 22, 23, 26 and 27.
Thence,
N. 89° 57' W., on a true line, bet. secs. 22 and 27.
Over mountainous land, thru. dense undergrowth.
 - 2.25 Ascend 30 ft. over NE. slope.
 - 2.95 Ridge, brs. NW. & SE. Wooden tailings flume, 1 ft. deep, from Mo-
renci Mill, brs. NW. & SE., draining S. Desc. 35 ft. over SW. slope.
 - 4.93 Road, brs. N. 25° W. and S. 25° E.
 - 7.22 Two wire telephone line, brs. N. 30° W., and S. 30° E.
 - 10.40 Gully, course S. 15° E. heads 3 chs. N.
Ascend 50 ft., over E. slope.
 - Road brs. N. and S.

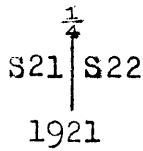
42 Part (completion) of Subdivision lines of T.4 S. R.29 E.

Chains.	
10.84	Long spur, slopes S. From this point, L.W.Samuel's slaughter house brs.S.2 chs.dist., and Sorea's slaughter house brs.N. 3 chs.dist.
	Descend 87 ft., over W.slope.
13.08	From this point, Detroit Copper Mining Company's triangulation station No.275 brs.S.20°37'E., 4.70 chs.dist.
	Cor. No.2 of Terapin Jack, patented lode mining claim, Mineral Survey No.3304, Greenlee Gold Mountain Mining District brs. N.7°27'E., 9.57 chs.dist.
15.96	Gulch, course S.
	Ascend 95 ft., over SE. slope to 35.09 ch.point.
23.00	Road, brs.N.10°W. and S.10°E.
24.99	Tailings flume from Morenci Mill, brs. N.and S., draining S.
33.09	Gulch, course S.70°E. from N.60°W. joined at this point by another gulch from S. 70°W.
	Ascend 120 ft., over SE.slope.
40.00	Set an iron post, 3 ft.long, 1 in. in diam., 8 ins.in the ground to bed rock supported by a mound of stone, for $\frac{1}{4}$ sec.cor., marked on brass cap,
	$\frac{1}{4}$ S 22
	S 27
	1921
	and raise a mound of stone, 4 ft.base, 3 ft.high, N.of cor.
	Ascend 87 ft., over face of cliff.
41.50	Top of cliff, brs.N.45°E. and S.45°W., facing SE.
	Ascend slightly over narrow ledge.
42.14	Leave ledge.
	Ascend 58 ft. over face of cliff.
43.37	Top of cliff, brs.N.45°E. and S.45°W. facing SE.
	Ascend 5 ft., over SE.slope. ledge.
44.37	Point of spur, slopes S.
	Descend 15 ft., over SW.slope.
46.86	Gulch, course S.15°E. heads about 3 chs.N.
	Ascend 320 ft., over SE.slope, to
56.59	Top of cliff, 100 ft. high, brs.S.40°W. and N.40°E. facing SE.
	Ascend 5 ft., over SE.slope to top of ridge.
57.24	Smokestack of Clifton Smelter, brs.S.52°E.
57.59	Ridge, brs.N.15°E. and S.15°W.
	Descend 165 ft., over W.slope.
70.33	Gully, course N.70°W.
	Descend 60 ft., over NW.slope, to
80.00	The cor.of secs. 21, 22, 27 and 28.
	Land, mountainous.
	Soil, rocky, 4th rate.
	No timber.
	Undergrowth, dense greasewood, scrub mesquite, black brush, catclaw, ocotillo and other cacti.

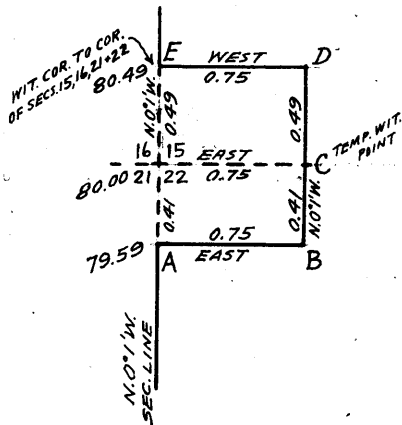
	N.0°1'W., bet. secs.21 and 22.
	Over mountainous land, thru. dense undergrowth.
	Descend slightly over NW.slope.
0.75	Gully, course S.30°W.
	Ascend 12 ft. over SE.slope.
3.50	Low spur, slopes S.30°W.
	Descend 50 ft., over NW.slope.
15.16	Gulch, course S.40°W.
	Ascend 168 ft., over SE.slope.
18.40	Entrance to old mine, brs.East, 70 lks:dist.
25.10	Change to SW.slope and ascend 89 ft. to 1 sec.cor.
36.00	From this point, cor.No.2 of the June patented lode mining claim, Mineral Survey No.3304, Greenlee Gold Mountain Mining District, brs.N.76°E., 0.67 chs.dist.
40.00	Set an iron post, 3 ft.long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap,

Part (completion) of Subdivision lines of T.4 S., R.29 E. 43

Chains.



and raise a mound of stone, 4 ft. base, 3 ft. high, W. of cor.
 From this cor.,
 New house brs. S. 85° W., about 12 chs. dist.
 House in trees brs. West, about 12 chs. dist.
 Square house, brs. N. 75½° W., 14 chs. dist.
 Leave dense, and enter scattering undergrowth.
 Ascend 60 ft., over SW. slope.
 43.38 Ridge, brs. N. 60° W. and S. 60° E. Desc. 190 ft., over N. slope.
 45.00 Triangulation point for measurement of line, bet. secs. 16 and 21, as hereinafter described.
 52.29 Gulch, course N. 45° E. near head.
 Ascend 5 ft., over SE. slope.
 55.36 Point of spur, slopes N. 40° E.
 Descend 85 ft., over NE. slope to bottom of Morenci Canyon.
 55.81 Upper Switchback of Morenci Southern Railroad, narrow gauge track, brs. N. 80° W. and S. 80° E.
 57.52 Tailings flume brs. N. 45° W. and S. 45° E., draining S. 45° E.
 58.40 Four wire telephone line, brs. E. and W.
 59.42 Morenci Canyon, course S. 80° E.
 Ascend 235 ft., over S. slope to point for sec. cor.
 60.10 Center switchback of Morenci Southern Railroad, brs. N. 56½° W. and S. 56½° E.
 60.43 Lower switchback of Morenci Southern railroad brs. N. 88½° W. and S. 88½° E.
 60.90 Fence brs. E. and W. on S. side of corral of dairy ranch. Enter corral.
 62.08 Fence brs. N. and S. on W. side of corral; leave corral, and enter house yard of same dairy ranch.
 62.54 Fence, brs. E. and W. Leave house yard. House brs. W. approximately 2 chs. dist. Continue across same dairy ranch.
 63.13 Fence brs. N. 70° E. and W. Leave dairy ranch.
 63.22 Auto highway, Morenci to Clifton, brs. N. 45° E. and S. 45° W.
 63.73 Road brs. N. 45° E. and S. 70° W.
 73.57 Road brs. N. 70° W. and S. 70° E.
 79.59 As the point for cor. of secs. 15, 16, 21 and 22 is occupied by a house, a witness cor. will be required. A point N. of the house is determined as being the most suitable position for the witness cor.; therefore, obtain measurement thereto by an offset line, as described as follows, and as shown on the diagram hereon:



From 79.59 ch. station, indicated on diagram at "A," East, 0.75 chs., on offset line in sec. 22, to offset point "B." Thence, N. 0° 1' W., 0.41 chs. on offset line in sec. 22 to point "C," 0.75 chs. E. of sec. cor. point. Set temp. witness point. Thence, N. 0° 1' W., 0.49 chs. on offset line in sec. 15 to offset point "D." Thence, West, 0.75 chs. on offset line in sec. 15 to offset point "E," which is

0.49 chs. N. 0° 1' W., from the sec. cor. point or located on the sec. line between secs. 21 and 22, extended thru. the house to
 80.49 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for witness cor. to cor. of secs. 15, 16, 21 and 22, marked on brass cap,

44 Part (completion) of Subdivision lines of T.4 S., R.29 E.

Chains.

T4S	R29E
S16	S15
S21	S22
W C	
1921	

and raise a mound of stone, 4 ft. base, 3 ft. high, W. of cor.

This cor. is set alongside of a fence inclosing the house which occupies the sec. cor. point.

Land, mountainous.

Soil, rocky, 4th rate.

No timber.

Undergrowth, greasewood, black brush, catclaw, rabbit brush and cacti, dense in S. $\frac{1}{2}$; scattering in N. $\frac{1}{2}$.

From temp. witness point, established at 75 lks. E. of the true point for cor. of secs. 15, 16, 21 and 22, as hereinbefore described,

S. $89^{\circ}57'E.$, on a random line, bet. secs. 15 and 22, continuing measurement from true sec. cor. point.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.00 Intersect the cor. of secs. 14, 15, 22 and 23.

Thence,

N. $89^{\circ}57'W.$, on a true line, bet. secs. 15 and 22.

Over mountainous land, thru dense undergrowth.

Ascend 280 ft., over NE. slope.

1.93 Adobe and rock house, brs. North approximately 12 chs.

dist. alongside Arizona and New Mexico railroad track, 5 chs. East of tunnel entrance.

7.47 Center of Morenci Southern railroad track, old unused narrow gauge track, brs. N. $45^{\circ}W.$ and S. $45^{\circ}E.$

26.09 Gulch, course N. $45^{\circ}E.$ near head.

Ascend 46 ft., over E. slope, to

26.60 Base of cliffs, brs. N. and S.

Ascend 440 ft., over E. slope, to

31.73 Top of cliffs, brs. N. and S. facing E.

Ascend 276 ft., over NE. slope, to

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$ S 15
S 22
1921

and raise a mound of stone, 4 ft. base, 3 ft. high, N. of cor.

Ascend 122 ft., over NE. slope.

46.70 Ridge, brs. N. $50^{\circ}W.$ and S. $50^{\circ}E.$

Descend 62 ft., over SW. slope.

46.37 From this point, cor. No. 2 of Deacon patented lode mining claim, Mineral Survey No. 2887, Greenlee Gold Mountain Mining District, brs. S. $7^{\circ}12'E.$, 9.50 chs. dist.

53.00 From this point, prospect hole brs. North 20 lks. dist.

54.03 Head of gulch, course S.

Ascend 36 ft., over SE. slope.

57.65 Spur, slopes S.

Descend 235 ft., over SW. slope.

69.71 Gulch, course S. $40^{\circ}W.$

Descend 9 ft., over S. slope, to

72.66 Power transmission line, brs. N. $45^{\circ}W.$ and S. $45^{\circ}E.$

Ascend 40 ft., over S. slope, to sec. cor. point.

79.75 Temp. witness point, discontinue chaining.

Measurement to sec. cor. point by offset around house, as hereinbefore described.

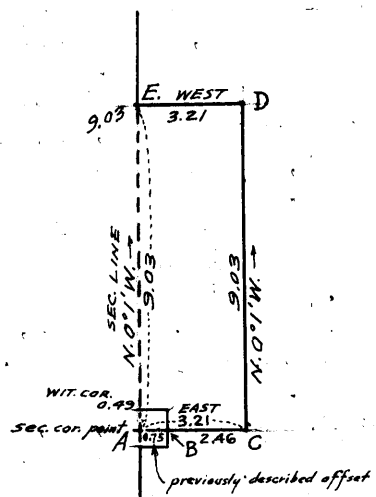
80.00 The true point for cor. of secs. 15, 16, 21 and 22, occupied by a house surrounded by a fence. Witness cor. established at 0.49 chs. N. $0^{\circ}1'W.$, as hereinbefore described.

Chains.

Land, mountainous.
Soil, rocky, 4th rate.
No timber.
Undergrowth, dense greasewood, catclaw, black brush, rabbit brush, scrub mesquite, ocotillo and other cacti.

From true point for cor. of secs. 15, 16, 21 and 22,
N. 0° 1' W., bet. secs. 15 and 16.
Over mountainous land, thru. scattering undergrowth.
Ascend S. slope.

Measurement to witness cor. by offset, as hereinbefore described.
0.49 Witness cor. to cor. of secs. 15, 16, 21 and 22, hereinbefore described, alongside yard fence, surrounding the house which occupies the sec. cor. point.
Beyond this point houses on the E. side of the town of Morenci prevent chaining on the sec. line from the W.C.; therefore, obtain measurement to a point on sec. line beyond the houses, by means of an offset line, as described as follows, and as shown on the diagram hereon:



From true sec. cor. point indicated on diagram at "A."
East, 0.75 chs. on offset line, measurement by offset, as hereinbefore described to point "B."

Thence,
East, 2.46 chs. on offset line, chaining measurement to point "C," 3.21 chs. E. of sec. cor. point.

Thence,
N. 0° 1' W., 9.03 chs. on offset line in sec. 15 to offset point "D."

At 6.82 chs. N. 0° 1' W. from point "C," cross a wire fence, bearing E. and W.

- From offset point "D,"
West, 3.21 chs. on offset line in sec. 15 to offset point "E," on sec. line at
- 9.03 Thence, N. 0° 1' W. on sec. line, continuing measurement from cor. point of secs. 15, 16, 21 and 22.
- 10.00 Ascend slightly over S. slope, to Ridge, brs. E. and W. 270 ft. above the sec. cor. point.
- 10.22 Descend 250 ft., over N. slope.
- 10.22 Set flag for triangulation of measurement on line bet. secs. 10 and 15, as hereinafter described.
- 15.89 Gulch, course N. 45° E.
- Ascend 30 ft., over S. slope.
- 19.15 Short spur, slopes E.
- Descend 83 ft., over NE. slope.
- 25.60 Gulch, course E.
- Ascend 60 ft., over SE. slope.
- 29.10 From this point, two story house brs. West 50 lks. dist.
- 29.35 Yard fence brs. N. 20° E. and S. 20° W.
- 30.07 Spur, slopes N. 45° E. From this point, house brs. East 75 lks. dist.
- Descend 80 ft., over N. slope.
- 35.42 Gulch, course E.
- Ascend 130 ft., over SE. slope to 1/4 sec. cor.
- 36.60 Road brs. N. 45° E. and S. 45° W. From this point, house brs. S. 35° W., 4 chs. dist.
- 38.87 Power transmission line, brs. N. 25° W. and S. 45° W.
Thence, across E. slope of Longfellow mine dump.
- Ascend slightly to
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 24 ins. in the ground, for 1/4 sec. cor., marked on brass cap,

46 Part (completion) of Subdivision lines of T.4 S. R29 E.

Chains.

1
S16 | S15
1921

and raise a mound of stone, 4 ft. base, 3 ft. high, W. of cor.

This cor. is near base of dump, under ore chute.

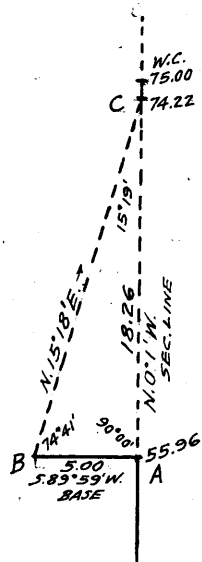
Descend slightly to

41.00 Leave mine dump; descend 56 ft. over NE. slope.

49.44 Longfellow Canyon, course E.

Ascend 220 ft., over SE. slope.

55.96 Point of spur, slopes E. Beyond this point, the sec. line crosses a deep canyon, with precipitous walls, and chaining is impracticable; therefore, triangulate as described as follows, and as shown on the diagram hereon:



From 55.96 ch. station on sec. line, indicated on diagram at "A," measure a Base, S. 89° 59' W. 5 chs. along top of spur to point "B."

Set flag ahead on sec. line at point "C," on N. rim of canyon. Bearing "B-C" = N. 15° 18' E.

Included angles of triangle "A-B-C" are 90° 00', 74° 41' and 15° 19', the sum of which is 180° 00'.

Triangulated measurement of "A-C" is obtained by

Tang. 74° 41' x Base or 3.65121 x 5.00 = 18.26 chs., which added to 55.96 chs. gives 74.22 chs.

Point of cor. of secs. 15, 16, 21 and 22, for the position of triangulation point "C."

67.00 (Approximate) Bottom of canyon, known as "Yankee Gulch," course E. from NW. about 800 ft. deep.

Ascend precipitous SW. slope, to

74.22 Triangulation point on N. rim of canyon.

Continue line and measurement by chaining.

Ascend slightly over SW. slope, to

75.00 SE. end of ridge, bearing NW. and SE. Beyond this point, the sec. line passes over steep granite slide sloping NE. on SW. wall of Chase Creek canyon. It is impracticable to chain any farther on the sec. line; therefore, at this point, set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for witness cor. to cor. of secs. 9, 10, 15 and 16, marked on brass cap,

W | C
T4S | R29E
S 9 | S10
S16 | S15
1921

and raise a mound of stone, 4 ft. base, 3 ft. high, W. of cor.

80.00 Descend over precipitous NE. slope, to
The true point for cor. of secs. 9, 10, 15 and 16, falls on precipitous NE. face of canyon wall, and is inaccessible.

Land, mountainous.

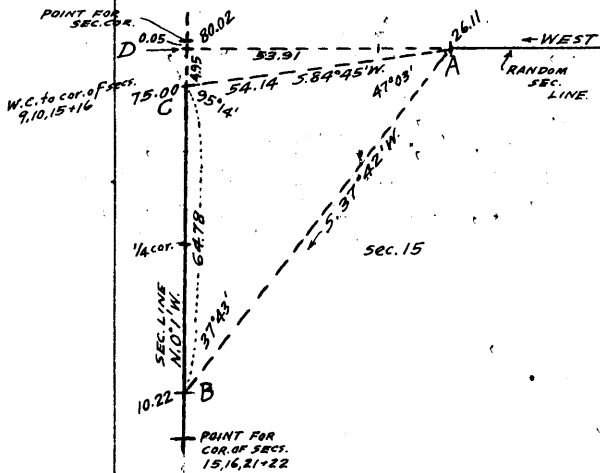
Soil, very rocky, 4th rate.

No timber.

Undergrowth, scattering greasewood, cactus, scrub mesquite, catclaw and black brush.

Chains.

26.11 The West half of line, bet. secs.10 and 15, crosses the precipitous broken walls of Chase Creek Canyon, and it is impracticable to run random line East, bet. said secs.; therefore, from the cor. of secs.10,11,14 and 15, West, on random line, bet. secs.10 and 15. E. rim of Chase Creek Canyon, brs.N.and S. Beyond this point, the sec. line passes over precipitous cliffs and slides on the walls of said canyon, and chaining is impracticable. Set temp. witness cor. to $\frac{1}{4}$ sec.cor. of secs.10 and 15 at this point, and triangulate the measurement of the remainder of the random sec.line, as described as follows, and as shown on the diagram hereon:



From 26.11 ch. station indicated on diagram at "A," the flag at 10.22, ch. station on line bet. secs.15 and 16, indicated on diagram at "B," brs.S.37°42'W.

Flag at W.C. to cor. of secs.9,10, 15 and 16, indicated at "C," brs.S.84°45'W.

The Base "B-C" of triangle "A-B-C" is 75.00 chs.-10.22 chs.= 64.78 chs.

Included angles of triangle "A-B-C" are 47°03', 37°43' and 95°14', the sum of which is 180°00'.

Triangulated measurement of "A-C" is obtained by

$$\frac{\text{sine } 37^{\circ}43' \times \text{Base}}{\text{sine } 47^{\circ}03'} \text{ or } \frac{.61176 \times 64.78}{.73195} = 54.14 \text{ chs.}$$

The position of point of intersection of the random line bet. secs. 10 and 15 with N. and S. line thru.sec.cor. point, indicated on diagram at "D," is determined by solution of the triangle "A-C-D" and is 53.91 chs. West from "A" and 4.95 chs. North from "C," or 5 lks. S. of the true point for cor. of secs.9,10, 15 and 16, indicated at "E." The total length of random line is therefore 26.11 chs. + 53.91 chs. = 80.02 chs.

80.02 Intersect the N.and S. line, 5 lks.S.of the true point for cor. of secs.9,10,15 and 16, witnessed 5.00 chs.S. 0°1'E. as hereinbefore described.

The true course and length of sec.line bet.secs.10 and 15 are therefore N.89°58'W., 80.02 chs.

Return to the cor. of secs.10,11,14 and 15.

Thence, N.89°58'W., on a true line, bet. secs.10 and 15. Over mountainous land, thru.dense undergrowth.

0.51 Descend slightly over W.slope, to Wash, course S.10°W.

1.80 Ascend slightly to Trail, brs.N.and S. Ascend 690 ft., over E.slope.

20.99 Ridge, brs. N. and S. Descend 75 ft., over W.slope, to

26.11 Triangulation point. East rim of Chase Creek Canyon, brs. N.and S. This being the nearest accessible point to the point for $\frac{1}{4}$ sec.cor., Set an iron post, 3 ft.long, 1 in. in diam., 8 ins.in the ground to bed rock, supported by a mound of stone, for witness cor. to $\frac{1}{4}$ sec. cor., marked on brass cap,

WC $\frac{1}{4}$ S 10
S 15
1921

48 part (completion) of Subdivision lines of T.4 S., R. 29 E.

chains.

and raise a mound of stone, 4 ft. base, 3 ft. high, N. of post.

Discontinue chaining. Measurement of remainder of line by triangulation hereinbefore described.

Descend over precipitous W. slope, broken by quartzite slides and cliffs.

40.01 True point for $\frac{1}{2}$ sec. cor. falls on precipitous W. slope, and is inaccessible.

42.00 (Approximate) Gulch, course SW.
Descend over cliffs, facing SW.

59.00 (Approximate) Center of Chase Creek, 150 lks. wide, course SE. in bottom of canyon. On E. side of bottom of canyon is the Auto Highway, Metcalf to Clifton, and Arizona New Mexico Railroad Track, both bearing NW. and SE., and on the W. side of canyon bottom is the Morenci and Southern railroad track, Metcalf to Clifton, bearing NW. and SE.

80.02 Ascend over precipitous NE. slope, to
The true point for cor. of secs. 9, 10, 15 and 16, falls on steep slide, and is inaccessible. Witness cor. established at 5.00 chs. S. $0^{\circ}1' E.$, as hereinbefore described.

Land, mountainous.

Soil, rocky, 4th rate.

No timber.

Undergrowth, dense greasewood, scrub mesquite, black brush, catclaw and cacti.

From true point for cor. of secs. 9, 10, 15 and 16, N. $0^{\circ}1' W.$, bet. secs. 9 and 10.

Over mountainous land, thru. dense undergrowth.

Descend over precipitous NE. slope into Chase Creek Canyon.

Chaining is impracticable, and the sec. cor. point is inaccessible; therefore, triangulate as described as follows, and as shown on the diagram hereon:

From witness cor. to cor. of secs.

9, 10, 15 and 16, indicated on diagram at "A," line in a flag N. $0^{\circ}1' W.$ at "B," and another flag N. $0^{\circ}1' W.$ at "D."

From "B," measure a Base, N. $89^{\circ}59' E.$, 4.71 chs. to "C," which is as long a base as can be chained.

Bearing of "C-A" = S. $10^{\circ}58' W.$

Bearing of "C-D" = N. $17^{\circ}39' W.$

Included angles of triangle "A-B-C" are $10^{\circ}59'$, $90^{\circ}00'$ and $79^{\circ}01'$, the sum of which is $180^{\circ}00'$.

Included angles of triangle "B-C-D" are $90^{\circ}09'$, $72^{\circ}22'$ and $17^{\circ}38'$, the sum of which is $180^{\circ}00'$.

Triangulated measurement of "A-B" is obtained by

Tang. $79^{\circ}01' \times$ Base or $5.15256 \times 4.71 = 24.27$

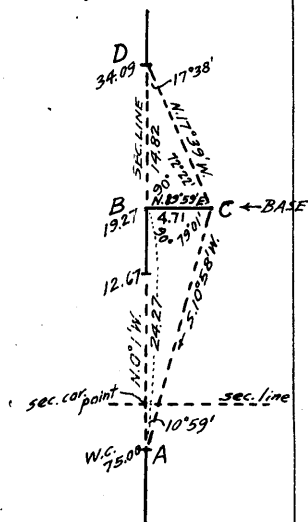
chs., which added to 75.00 chs. gives 99.27 chs. N. $0^{\circ}1' W.$ from point for cor. of secs. 15, 16, 21 and 22, or 19.27 chs. N. $0^{\circ}1' W.$ from the point for cor. of secs. 9, 10, 15 and 16, for the position of point "B."

Triangulated measurement "B-D" is obtained by

Tang. $72^{\circ}22' \times$ Base or $3.14605 \times 4.71 = 14.82$ chs., which added to 19.27 chs. gives 34.09 chs., N. $0^{\circ}1' W.$ from point for cor. of secs. 9, 10, 15 and 16, for position of point "D."

From triangulation point "B," chain measurement S. $0^{\circ}1' E.$, 6.60 chs. to

12.67 Morenci-Southern railroad track, Metcalf to Clifton, brs. NW and SE. at S. edge of bottom of Chase Creek canyon. Thence, N. $0^{\circ}1' W.$, continuing measurement from sec. cor. point by chaining across bottom of Chase Creek Canyon.



Part (completion) of Subdivision lines of T.4 S. R.29 E. 49

Chains.

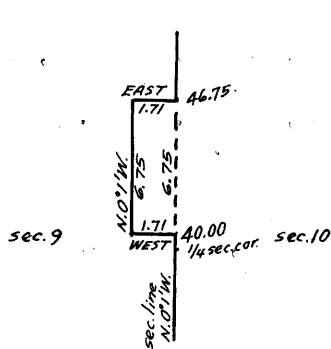
- 13.67 Center of Chase Creek, 150 lks. wide, course SE.
- 14.77 Arizona-New Mexico railroad track, Metcalf to Clifton, brs. NW. and SE.
- 19.27 Triangulation point "B," in Auto Highway, Metcalf to Clifton, bearing NW. and SE. at N. edge of bottom of Chase Creek Canyon.
Discontinue chaining.
Ascend over cliffs, facing SW.; measurement by triangulation, as hereinbefore described.
- 24.00 (Approximate) Gulch, course SW. Continue precipitous ascent over cliffs.
- 34.09 Triangulation point "D," at top of cliffs, bearing NW. and SE., facing SW.
Continue line and measurement by chaining.
Ascend 124 ft., over S. slope.
- 37.61 Spur, slopes S. 45°W.
Ascend 21 ft. along steep W. slope to
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground to bed rock, supported by a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$
 S 9 | S 10
 1921

and raise a mound of stone, 4 ft. base, 2½ ft. high, W. of cor.

This cor. is at S. end of the face of cliff, bearing N. 10°W. and S. 10°E., facing W.

To avoid face of cliff offset around same, as described as follows, and as shown on the diagram hereon:



From $\frac{1}{4}$ sec. cor.,
 West, 1.71 chs. on offset line into sec. 9 to offset point.
 Thence,
 N. 0°1' W., 6.75 chs., on offset line in sec. 9 along base of cliff to offset point.
 Thence,
 East, 1.71 chs. on offset line in sec. 9, returning to point on sec. line, at

- 46.75 Offset point at top of cliff and point of steep narrow rocky spur, sloping S. 60°W.

Thence,
N. 0°1' W. on sec. line, continuing measurement.
Descend 180 ft., over NW. slope.

- 52.56 Four wire power transmission line, brs. NE. and SW.
- 59.00 Four wire aerial tram, brs. NE. and SW.
- 59.98 Wash, 30 lks. wide, in gulch, course S. 50°W.
Ascend 555 ft., over steep SE. slope.
- 75.45 Ridge, brs. S. 80°W. and N.
Descend 172 ft., along W. slope, near top of ridge to sec. cor.
- 78.53 From this point, Detroit Copper Mining Company's triangulation station No. 268 brs. N. 30°E., 1.75 chs. dist.
- 80.00 Narrow ledge, bearing N. and S. Set an iron post, 3 ft. long, 2 ins. in diam., 8 ins. in the ground to bed rock, supported by a mound of stone, for cor. of secs. 3, 4, 9 and 10, marked on brass cap,

T4S | R29E
 S 4 | S 3
 S 9 | S 10
 1921

and raise a mound of stone, 4 ft. base, 3 ft. high, W. of cor.

50 Part (completion) of Subdivision lines of T. 4 S., R. 29

Chains.

Land, mountainous.
Soil, rocky, 4th rate.
No timber.
Undergrowth, dense greasewood, cacti, scrub mesquite, cat-claw, and black brush.

-
- S. 89° 51' E., on a random line, bet. secs. 3 and 10.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.00 Intersect N. and S. line, 16 lks. N. of cor. of secs. 2, 3, 10 & 11.
Thence,
N. 89° 51' W., on a true line, bet. secs. 3 and 10.
Over mountainous land, thru. scattering timber and dense undergrowth.
Ascend 120 ft., over E. slope.
4.00 Ridge, brs. N. and S., and spur sloping NW.
From this point, pipe on top of Markeen Mountain brs. S. 2 $\frac{1}{2}$ ° E. about 15 chs. dist.
Descend 495 ft. over SW. slope.
27.62 Gulch, 20 lks. wide, course SW. heads about 7 chs. NE.
Ascend 165 ft., over SE. slope.
38.00 Spur, slopes SW.
Descend 100 ft., over NW. slope, to
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$ S 3
S 10
1921

from which,

- A pine, 8 ins. in diam., brs. N. 47 $\frac{1}{2}$ ° E., 82 lks. dist., marked $\frac{1}{4}$ S 3 BT.
A pine, 10 ins. in diam., brs. S. 17° E., 77 lks. dist., marked $\frac{1}{4}$ S 10 BT.
From this cor., cor. No. 3 of Hazel patented lode mining claim, Mineral Survey No. 1851, Greenlee Gold Mountain Mining District, brs. N. 39° 10' E., 1.65 chs. dist.
Descend 800 ft., over NW. slope.
57.30 Telephone line brs. NE. and SW.
61.82 Trail, brs. N. 20° E. and S. 20° W.
63.75 Gulch, course SW.
Ascend 420 ft. over SE. slope.
65.95 Power line, brs. N. 15° E. and S. 15° W. From this point, the shaft of New England Mine, brs. S. 5° E.
79.44 Ridge, brs. N. and S.
Descend 10 ft., over W. slope, to sec. cor.
From this point, shaft of New England mine brs. S. 36° 40' E.
80.00 The cor. of secs. 3, 4, 9 and 10.
Land, mountainous.
Soil, rocky, 4th rate.
Timber, scattering pine.
Undergrowth, dense ocotillo, and other cacti, manzanita and scrub oak.

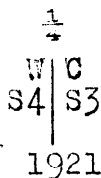
-
- N. 0° 1' W., on a random line, bet. secs. 3 and 4.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
84.40 Fall 7 lks. E. of the cor. of secs. 3, 4, 33 and 34, on the N. bdy. of the Tp., hereinbefore described.
Thence,
S. 0° 4' E., on a true line, bet. secs. 3 and 4.
Over mountainous land, thru. scattering timber and dense undergrowth.
Descend 740 ft., over E. and SE. slopes.
31.60 Narrow gauge mine track, brs. NE. and SW.
43.60 Gulch, course SW.
Ascend 50 ft., over face of cliff.

BOOK 6888

Part(completion) of Subdivision lines of T.4 S., R.29 E.51

Chains.

- 44.40 The true point for $\frac{1}{4}$ sec.cor.falls on face of cliff,where it cannot be monumented.
- 45.62 Top of cliff, bearing NW and SE., facing NW. From this point, Arizona Copper Company's triangulation station brs.S.11°20'W., 0.87 chs.dist.
- 45.70 Set an iron post, 3 ft.long, 1 in. in diam., on bed rock, supported by a mound of stone, for witness cor. to $\frac{1}{4}$ sec.cor., marked on brass cap,

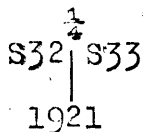


and raise a mound of stone, 3 ft.base, 2 ft.high,W.of cor.

- Ascend 400 ft.,over NW.slope.
- 47.60 Arizona Copper Company's inclined track brs.N.57°W. and S.57°E.
- 64.20 Graded trail, brs.E.and W.
- 65.95 Spur,slopes W.
- Descend 97 ft.,over SW. and W.slopes to
- 84.40 The cor.of secs.3,4, 9 and 10.
Land, mountainous.
Soil,rocky, 4th rate.
Timber, scattering cedar, pine and juniper.
Undergrowth, dense ocotillo and other cacti,manzanita and scrub oak.

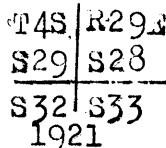
From the cor. of secs. 32 and 33, on S. bdy. of the Tp., here-
inbefore described,

- N.0°1'W., bet. secs. 32 and 33.
Over mountainous land, thru. dense undergrowth.
- Ascend 30 ft.,over SE.slope.
- 4.89 Saddle in spur, sloping S. 80°E.
- Descend 210 ft., over N.slope.
- 16.34 Gulch, course S.75°E.
- Ascend 77 ft.over SE. slope,to
- 22.56 Gulch, course S.45°E.
- Ascend 257 ft.,over SE.slope,to
- 40.00 Set an iron post, 3 ft.long, 1 in. in diam., 6 ins.in the ground to bed rock, supported by a mound of stone, for $\frac{1}{4}$ sec.cor., marked on brass cap,



and raise a mound of stone, 4 ft. base, 3 ft.high,W. of cor.

- Ascend 438 ft.,over SE.slope.
- 59.27 Point of spur, slopes E.
- Descend 66 ft. over NE.slope,to
- 65.18 Spur,slopes N.45°E.
- Descend 390 ft.,over NW.slope,to
- 80.00 Set an iron post, 3 ft.long, 2 ins. in diam., 6 ins.in the ground to bed rock, supported by a mound of stone, for cor.of secs. 28,29, 32 and 33, marked on brass cap,



52 part(completion)of Subdivision lines of T.4 S.,R.29 E.

Chains.

and raise a mound of stone, 4 ft. base, 3 ft. high, W. of cor.

Land, mountainous.

Soil, rocky, 4th rate.

No timber.

Undergrowth, dense black brush, rabbit brush, greasewood and cacti.

S. 89° 59' E., on a random line, bet. secs. 28 and 33.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.12 Intersect the cor. of secs. 27, 28, 33 and 34.

Thence,

N. 89° 59' W., on a true line, bet. secs. 28 and 33.

Over mountainous land, thru. dense undergrowth.

Descend 410 ft. over W. and SW. slopes, to

40.06 Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in the ground to bed rock, supported by a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$$\begin{array}{r} \frac{1}{4} \text{ S } 28 \\ \hline \text{S } 33 \\ 1921 \end{array}$$

and raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.

Goat ranch brs. N. 10° W. about 20 chs. dist.

Descend slightly over SW. slope, to

40.12 Center of wash, 30 lks. wide, in ravine, course S. 40° E.

Ascend 200 ft., over NE. slope.

54.05 Spur, slopes S. 45° E.

Descend 215 ft., over SW. slope.

70.50 Wash, 40 lks. wide, in ravine, course S. 30° E.

Ascend 110 ft., over NE. slope.

76.65 Point of spur, slopes N.

Descend 28 ft., over NW. slope, to

80.12 The cor. of secs. 28, 29, 32 and 33.

Land, mountainous.

Soil, rocky, 4th rate.

No timber.

Undergrowth, dense greasewood, catclaw, scrub mesquite, black brush, rabbit brush and cacti.

N. 0° 1' W., bet. secs. 28 and 29.

Over mountainous land, thru. dense undergrowth.

Descend slightly over NW. slope.

0.40 Wash, 20 lks. wide, course N. 80° E. from S. 45° W.

Ascend 48 ft., over SE. slope.

2.91 Point of spur, slopes N. 55° E.

Descend 46 ft., over N. slope.

8.85 Gulch, course S. 45° E.

Ascend 80 ft., over SE. slope.

13.84 Ridge, brs. E. and W. Saddle brs. W. 2 chs. dist.

Descend 45 ft., over N. slope.

19.80 Gully, course E., near head.

House at goat ranch, brs. West about 8 chs. dist.

Ascend 48 ft., over SE. slope.

34.59 Descend 12 ft., over NE. slope.

39.54 Wash, course S. 50° E.

Ascend slightly over SE. slope, to

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

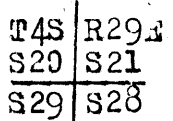
$$\begin{array}{r} \frac{1}{4} \\ \text{S } 29 \text{ | } \text{S } 28 \\ 1921 \end{array}$$

COX 8000

Part (completion) of Subdivision lines of T.4 S., R.29 E. 53

Chains.

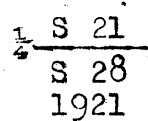
- and raise a mound of stone, 4 ft. base, 3 ft. high, W. of cor.
- 58.66 Ascend 70 ft., over SE. and E. slopes, to Wash, course S. 40° E.
- 69.74 Ascend 50 ft., over SE. slope, to Wash, course S. 40° E.
- 79.42 Ascend 25 ft., over SE. slope, to Head of wash, 40 lks. wide, course S. 45° E.
- 80.00 Ascend slightly over SW. slope, to Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 20, 21, 28 and 29, marked on brass cap,



1921

- and raise a mound of stone, 4 ft. base, 3 ft. high, W. of cor.
- Land, mountainous. Soil, rocky, 4th rate.
- No timber.
- Undergrowth, dense catclaw, scrub mesquite, cacti, black brush, Spanish dagger, rabbit brush and scrub oak.

- 40.00 S. 89° 59' E., on a random line, bet. secs. 21 and 28. Set temp. 1/4 sec. cor.
- 80.14 Intersect N. and S. line, 7 lks. S. of the cor. of secs. 21, 22, 27 and 28.
- Thence,
- 0.50 S. 89° 58' W., on a true line, bet. secs. 21 and 28. Over mountainous land, thru. dense undergrowth. Descend slightly over NW. slope, to Gully, course SW.
- 8.57 Descend 117 ft., over SW. slope. Center of wash, 100 lks. wide, in gulch, course S.
- 25.95 Ascend 330 ft., over E. slope, to Top of cliff, 60 ft. high, brs. N. and S. facing E.
- 36.55 Ascend 183 ft., over E. slope, to Ridge, brs. NW. and SE.
- 40.07 Descend 60 ft., over SW. slope, to Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground to bed rock, supported by a mound of stone for 1/4 sec. cor., marked on brass cap,



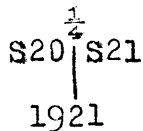
- and raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.
- 45.00 Ascend 25 ft. over SE. slope. Spur, slopes S.
- 53.45 Descend 215 ft., over W. slope. Wash, 20 lks. wide, in gulch, course S.
- 59.08 Ascend 195 ft., over E. slope. Spur, slopes S.
- 69.57 Descend 220 ft., over W. slope. Old trail, brs. N. and S.
- 70.54 Wash, 20 lks. wide, in gulch, course S.
- 73.57 Ascend 25 ft., over SE. slope. Point of spur, slopes S.
- 80.14 Descend 23 ft., over SW. slope, to The cor. of secs. 20, 21, 28 and 29. Land, mountainous. Soil, rocky, 4th rate. No timber.

54 Part (completion) of Subdivision lines of T.4 S..R.29 E.

Chains.

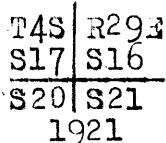
Undergrowth, dense ocotillo and other cacti, catclaw, scrub oak and tesota.

- 15.13 N.0°1'W., bet. secs.20 and 21.
Over mountainous land, thru, dense undergrowth.
Ascend 204 ft., over SW.slope, to
Spur, slopes S.20°E.
- 26.22 Ascend 162 ft., over E. and SE. slopes.
From this point, the NW.cor. of the Catholic Cemetery
brs. N.27°E.
- 26.25 From this point, cor. No.4 of Mascot patented lode mining
claim, Mineral Survey No.3316, Greenlee Gold Mountain
Mining District, brs. N.45°41'E.
- 26.35 Ridge, brs. E and W.
Descend 105 ft., over N. slope.
- 29.80 Wash, 10 lks. wide, in gulch, course E.
Ascend 50 ft., over S. slope.
- 32.73 Point of spur, slopes SE.
Descend 36 ft., over NE. slope.
- 36.19 Wash, 20 lks. wide, in gulch, course SE.
Ascend 100 ft., over S. slope, to
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the
ground to bed rock, supported by a mound of stone, for
¼ sec. cor., marked on brass cap,



and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.

- 40.91 From this cor., cor. No.4 of Mascot patented lode mining
claim, Mineral Survey No.3316, brs. S.38°26'E.
Ascend 276 ft., over S. slope.
Morenci Water Company's water mains, three 10 in. pipes,
bear N.75°W. and S.75°E.
- 47.14 Road, brs. NW. and SE.
- 52.79 Ridge, brs. E. and W.
Descend 157 ft., over N. and NW. slopes.
- 56.87 Eagle Creek road, brs. E. and W.
- 64.15 Head of wash, course W.
Ascend 205 ft. over SW. slope.
- 72.94 Ridge, brs. NW. and SE.
Descend 216 ft., over NE. slope, to sec. cor.
- 75.15 Eagle Creek road, brs. NW. and SE.
- 78.79 Telephone line, brs. E. and W.
- 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in
the ground, for cor. of secs. 16, 17, 20 and 21, marked
on brass cap,



and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.

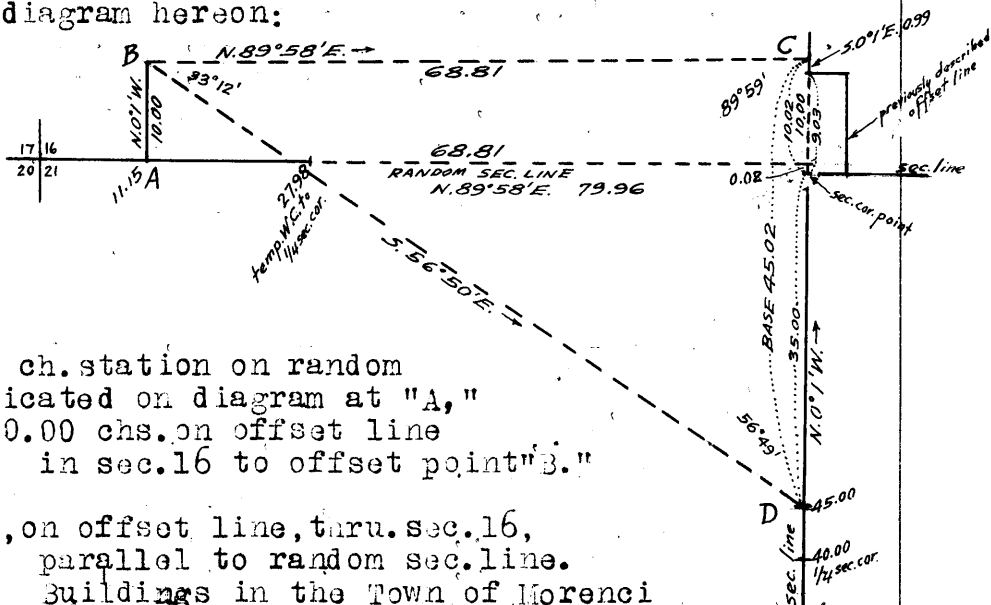
- From this cor., smoke stack on Detroit Copper Mining
Company's smelter brs. N.89½°E.
Arizona Copper Company's mine shaft brs. N.84°
22'E.
SE. cor. of Morenci high school brs. S.85°10'E.
- Land, mountainous.
- Soil, rocky, 4th rate.
- No timber.
- Undergrowth, dense ocotillo and other cacti, catclaw, scrub
oak and scrub cedar.

BOOK 3898

part (completion) of Subdivision lines of T. 4 S. R. 29 E. 55

Chains.

- 11.15 N. 89° 58' E., on a random line, bet. secs. 16 and 21.
Point from which offset line is run, as hereinafter described.
- 27.98 Impossible to chain farther on this random line because of buildings in the town of Morenci.
Set temp. witness cor. to $\frac{1}{4}$ sec. cor.
Discontinue chaining on random line, and measure the remainder by offset, as described as follows, and as shown on the diagram hereon:



From 11.15 ch. station on random line, indicated on diagram at "A,"
N. 0° 1' W., 10.00 chs. on offset line
in sec. 16 to offset point "B."

Thence,
N. 89° 58' E., on offset line, thru sec. 16,
parallel to random sec. line.
Buildings in the Town of Morenci
obstruct the chaining of this portion
of the offset line; therefore, triangulate the measurement as described as follows, and as shown on the diagram.

From offset point "B," line in a flag N. 89° 58' E. at point "C," on line, bet. secs. 15 and 16, 10.02 chs. N. 0° 1' W. from point for cor. of secs. 15, 16, 21 and 22.
A flag at 45.00 ch. station on line, bet. secs. 21 and 22, indicated on diagram at "D," brs. S. 56° 50' E. from "B."
The length of Base "C-D" of triangle "B-C-D" is therefore 10.02 chs. + 35.00 chs. = 45.02 chs. with a bearing N. 0° 1' W.

Included angles of triangle "B-C-D" are 33° 12', 89° 59' and 56° 49', the sum of which is 180° 00'.
Triangulated measurement of offset line "B-C" is obtained by $\frac{\sin 56^\circ 49' \times \text{Base}}{\sin 33^\circ 12'}$ or $\frac{.83692 \times 45.02}{.54756} = 68.81$ chs.,

which added to 11.15 chs. gives 79.96 chs. as the easting of offset point "C," on line bet. secs. 15 and 16.

Thence,
S. 0° 1' E., 0.99 chs., on offset line, and also on sec. line, bet. secs. 15 and 16 to terminals of the offset run in survey of said sec. line.
This offset point being 9.03 chs. N. 0° 1' W. from the sec. cor. point the length of offset line from point "C" to the sec. cor. point is 0.99 chs. + 9.03 chs. = 10.02 chs.

The offset line "B-C" being parallel to and 10.00 chs. N. from the position of the random sec. line, the falling of the random line on the sec. cor. point will be 10.02 chs. - 10.00 chs. or 0.02 chs. N., giving a true course of S. 89° 59' W. for the sec. line, bet. secs. 16 and 21.

- 40.00 Point for temp. $\frac{1}{4}$ sec. cor. is occupied by building in town of Morenci.
- 79.96 Intersect N. and S. line, 2 lks. N. of the true point for cor. of secs. 15, 16, 21 and 22, occupied by a house surrounded by a fence, and witnessed at 0.49 chs. N. 0° 1' W., as hereinbefore described.

From sec. cor. point,

56 Part (completion) of Subdivision lines of T.4 S. R.29 E.

Chains.

- S.89°59'W, on true line, bet. secs. 16 and 21.
Over mountainous land, thru. the town of Morenci, Arizona.
Measurement by offset, N.0°1'W., 10.00 chs., S.89°59'W.,
68.81 chs., and S.0°1'E., 10.00 chs. to 68.81 ch. station
on sec. line,
- 39.98 True point for $\frac{1}{4}$ sec. cor. in Town of Morenci. Impracticable to monument cor.
From 68.81 ch. station, chain measurement.
N.89°59'E., 16.83 chs. to
- 51.98 West edge of town of Morenci, brs. N. and S.
Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for witness cor. to $\frac{1}{4}$ sec. cor., marked on brass cap,
- $\frac{1}{4}$ S 16 WC
S 21
1921
- and raise a mound of stone, 4 ft. base, 3 ft. high, N. of cor.
Thence,
S.89°59'W., on true line, bet. secs. 16 and 21, continuing measurement.
Over mountainous land, thru. scattering undergrowth.
Descend 10 ft., over SW. slope.
- 52.90 Ascend 125 ft., over E. slope.
- 54.96 Green house, brs. North 20 lks. dist.
Ascend 250 ft.
- 55.96 North end of blue house on line.
- 61.94 Narrow gauge railroad track, brs. NW. and SE.
- 63.86 South end of red barn.
- 68.81 Offset point.
- 73.68 Spur, slopes SE.
Ascend 130 ft., over S. slope, to
- 79.70 Gulch, course SE., near head.
Ascend slightly over NE. slope, to
- 79.96 The cor. of secs. 16, 17, 20 and 21.
Land, mountainous.
Soil, rocky, 4th rate.
No timber.
Undergrowth, scattering scrub mesquite, black brush and cacti in W. 28 chs.
-
- N.0°1'W., bet. secs. 16 and 17.
Over mountainous land, thru. dense undergrowth.
Descend slightly over NE. slope.
- 0.28 Head of gulch, course SE.
Ascend 76 ft., over S. slope.
- 5.88 Spur; slopes SE.
Descend 56 ft., over NE. slope.
- 9.39 Head of wash, course E.
Ascend 320 ft., over SE. slope.
- 11.50 Eagle Creek road, brs. E. and W.
- 25.87 Top of copper mountain, brs. N.80°E. and S.80°W.
Descend 30 ft., over NW. slope.
- 27.81 Descend 195 ft., over NE. slope, to
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,
- $\frac{1}{4}$ S 17 S 16
1921
- and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
- 43.11 Descend 107 ft., over NE. slope.
Graded trail, brs. NW. and SE.

Part (completion) of Subdivision lines of T.4 S. R.29 E.

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chains.

- 46.11 Wash, 20 lks. wide in gulch, course SE.
Ascend 305 ft., over SW. slope.
- 48.79 Same trail, brs. E and W.
- 54.45 Spur, slopes SE.
Descend 30 ft., over NE. slope.
- 61.14 Same trail, brs. NW and SE.
- 64.95 Head of wash, course SE.
Ascend 90 ft., over S. slope.
- 67.97 Ridge, brs. NE and SW.
Descend 125 ft., over NW. slope.
- 74.31 Wash, 20 lks. wide, in gulch, course NE.
Ascend 95 ft., over SE. slope, to
- 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 8, 9, 16 and 17, marked on brass cap,

T4S	R29E
S 8	S 9
S17	S16

1921

and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.

Land, mountainous.

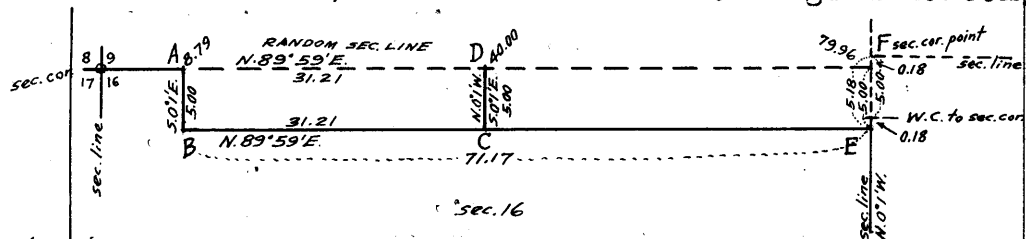
Soil, rocky, 4th rate.

No timber.

Undergrowth, dense catclaw, scrub oak, tesota, ocotillo and other cacti.

8.79

N. 89° 59' E., on a random line, bet. secs. 9 and 16. Offset point. Beyond this point, the random sec. line passes over precipitous broken slopes of S. wall of a gulch, course E. The point for cor. of secs. 9, 10, 15 and 16 being inaccessible and witnessed at 5.00 chs. S. 0° 1' E. therefrom as hereinbefore described, discontinuous chaining on random sec. line, offset into sec. 16, and run offset line toward the witness cor., as described as follows, and as shown on the diagram hereon:



From 8.79 ch. station on random sec. line, indicated on diagram at "A,"

S. 0° 1' E., 5.00 chs. on offset line, in sec. 16 to offset point "B."

Thence,

N. 89° 59' E.; on random offset line, parallel to, and 5 chs. S. from random sec. line to

31.21 Point "C" on random offset line.

Thence,

N. 0° 1' W., 5.00 chs. on offset line, returning to point on random sec. line, at

40.00 Point "D". Set temp. 1/2 sec. cor.

Thence,

S. 0° 1' E., 5.00 chs. on offset line, returning to point "C" at 31.21 ch. station on random offset line.

Thence,

N. 89° 59' E., on random offset line, thru. sec. 16, parallel to, and 5.00 chs. S. of random sec. line, continuing measurement from offset point "B" to

58 Part(completion) of Subdivision lines of T.4 S. R.29 E.

Chains.

- 71.17 Offset point "E," 18 lks.S. of the W.C. to cor. of secs. 9,10,15 and 16, and 79.96 chs. easting from cor. of secs. 8,9,16 and 17.
From offset point "E,"
N.0°1'W., 5.18 chs. on offset line, and sec. line bet. secs. 15 and 16, chaining measurement 0.18 chs. to W.C. Measurement of 5.00 chs. to cor. point by triangulation, hereinbefore described.
- The random offset line, being parallel to, and 5.00 chs. S. of the random sec. line, the falling of the latter projected to a N. and S. line, thru. the sec. cor. point indicated on diagram at "F" will be 18 lks. S.
- 79.96 Intersect N. and S. line, 18 lks. S. of the true point for cor. of secs. 9,10, 15 and 16,
Thence,
S.89°51'W., on true line, bet. secs. 9 and 16.
Over mountainous land, thru. dense undergrowth.
Measurement for 71.17 chs. by offset, as described as follows, the topographical features being measured on the offset line westerly from the W.C. to cor. of secs. 9,10,15 and 16.
- From point for cor. of secs. 9,10,15 and 16, measurement by triangulation,
S.0°1'E., 5.00 chs. to W.C. to cor. of said secs.
Thence,
S.89°51'W., on true offset, parallel to, and 5.00 chs. S. of true sec. line, bet. secs. 9 and 16.
Over mountainous land, thru. dense undergrowth, on top of ridge, bearing NW. and SE. at SE. end of same.
Ascend 30 ft. to
- 2.95 Leave top of ridge. From this point
Detroit Copper Mining Co's. main shaft, along-
side mill brs. S.44°43'W.
Edge of flume on E. edge of high bluff, brs. S.38°40'E.
- U.S.L.M. No. 1654, Greenlee Gold Mtn. Mining Dist.
brs. S.79°42'W.
Descend 365 ft., over SW. slope.
- 11.55 Old road, brs. N. and S.
- 15.69 Wash 20 lks. wide in bottom of canyon, course SE., known as "Yankee Gulch."
- 18.11 Ascend 205 ft., over NE. slope, to Point of spur, slopes NE.
Ascend 110 ft., over N. slope.
- 19.51 Electric power transmission line, 45,000 volts, brs. N. and S.
- 21.26 Graded trail, brs. NW. and SE.
- 23.15 Descend 19 ft., over NW. slope.
- 24.33 Electric power transmission line brs. N.20°E. and S.20°W.
Ascend 57 ft., over NE. slope.
- 29.25 Point of spur, slopes N.
Descend 94 ft., over NW. slope.
- 34.87 Old road, brs. NE. and SW.
- 36.60 Gulch, course N.
Ascend 65 ft., over NE. slope, to
- 39.98 Offset point.
Thence,
N.0°1'W., 5.00 chs. to point on true sec. line at
- 39.98 Set an iron post, 3 ft. long, 1 in. in diam., on bed rock, supported by a mound of stone for $\frac{1}{4}$ sec. cor., marked on brass cap,

Part (completion) of Subdivision lines of T. 4 S. R. 29 E. 59

Chains.	and raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor..
	Thence,
39.98	S. 0°1'E., 5.00 chs., returning to offset line at Offset point.
	Thence,
	S. 89°51'W., on true offset line, parallel to and 5.00 chs. S. of sec. line, continuing measurement from W.C. to cor. of secs. 9, 10, 15 and 16.
41.00	Ascend 312 ft., over NE. slope. Old road, brs. NW and SE.
52.24	Point of spur, slopes N. Descend 60 ft., over NW. slope.
55.62	Gulch, course NE. near head. Ascend 225 ft., over NE. slope, to
63.60	Thence along N. slope, ascending slightly to
68.50	Ascend 30 ft. over E. slope, to offset point.
69.55	Old mine shaft, brs. N. 20 lks. dist.
	Another old mine shaft brs. S. 100 lks. dist.
71.17	Offset point.
	Thence, N. 0°1'W., 5.00 chs. on offset line, to point on true sec. line at
71.17	Offset point on point of spur, sloping NE.
	Thence,
	S. 89°51'W., on true line, continuing measurement. Descend 110 ft., over NW. slope.
75.35	Wash, 20 lks. wide, in gulch, course NE.
	Ascend 150 ft., over SE. slope to sec. cor.
76.63	From this point the NE. cor. (No. 1) of Wedge patented lode mining claim, Mineral Survey No. 3413, Greenlee Gold Mountain Mining District, bears South, 110 lks. dist.
79.70	Telephone line brs. N. 13½°W., and S. 13½°E.
79.96	The cor. of secs. 8, 9, 16 and 17.
	From this cor., U.S.L.M. No. 1654, Greenlee Gold Mountain Mining Dis- trict, brs. S. 59°18'E.
	Land, mountainous.
	Soil, rocky, 4th rate.
	No timber.
	Undergrowth, dense catclaw, scrub oak, ocotillo and other cacti.
----- From U.S.L.M. No. 1654, Copper Mountain and Greenlee Gold Mountain Mining Districts, Mt. Graham brs. S. 47°W. Cochise Head in Chiricahua Mountains, brs. S. 12½°W. Top of high bluff on N. end of Coronado ridge, brs. N. 25°52'W. Shaft of Clay Mine, brs. S. 9°30'W. Main shaft of Arizona Copper Company's Morenci mine brs. S. 33°6'E. Main shaft Detroit Copper Mining Company's Morenci mine brs. S. 51°50'E. U.S.G.S.B.M. on top of Copper King Mountain brs. N. 47°30'E.	

	N. 0°1'W., bet. secs. 8 and 9.
	Over mountainous land, thru. dense undergrowth. Ascend 85 ft., over SE. slope.
0.80	Telephone line, brs. N. 13½°W. and S. 13½°E.
8.25	Spur, slopes E. Descend 395 ft., over N. slope.

60 Part (completion) of Subdivision lines of T. 4 S., R. 29 E.

Chains.

- 18.65 Wash, 30 lks. wide, in gulch, course E.
Ascend 130 ft., over S. slope.
- 25.27 Spur, slopes E. Two wire telephone line, brs. E. and W.
Descend 112 ft., over N. slope.
- 32.21 Center of old mining dump, 2 chs. wide, in gulch, course E.
Ascend 126 ft., over S. slope, to $\frac{1}{4}$ sec. cor.
- 33.00 Old mine shaft on line.
- 40.00 Spur, slopes SE. Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground to bed rock, supported by a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$$\frac{1}{4}$$

$$S 8 | S 9$$

1921

and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.

- 54.89 Ascend 407 ft., over E. and SE. slopes.
Graded trail, brs. NE. and SW.
- 73.14 Top of mountain.
Descend 210 ft., over N. slope, to
- 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 8 ins. in the ground to bed rock, supported by a mound of stone for cor. of secs. 4, 5, 8 and 9, marked on brass cap,

$$T4S | R29E$$

$$S 5 | S 4$$

S 8 | S 9

1921

and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.

Land, mountainous.
Soil, rocky, 4th rate.
No timber.
Undergrowth, dense catclaw, manzanita, ocotillo and cacti.

- 40.00 N. $89^{\circ}51'E.$, on a random line, bet. secs. 4 and 9.
Set temp. $\frac{1}{4}$ sec. cor.
- 80.02 Intersect N. and S. line, 40 lks. N. of the cor. of secs. 3, 4, 9 and 10.
Thence
N. $39^{\circ}52'W.$, on a true line, bet. secs. 4 and 9.
Over mountainous land, thru, dense undergrowth.
Descend 1100 ft. over steep broken W. slope, to
- 31.50 Auto Highway, Metcalf to Clifton, brs. N. and S. at E. edge of bottom of Chase Creek Canyon, brs. N. and S. Thence across canyon bottom.
Descend slightly to Chase Creek.
- 32.00 Arizona and New Mexico Railroad--narrow gauge track, Metcalf to Clifton, brs. N. and S.
- 34.00 Center of Chase Creek, 4 chs. wide, course S.
Ascend 81 ft., over NE. slope to $\frac{1}{4}$ sec. cor.
- 39.00 Morenci-Southern narrow gauge railroad track, brs. N. and S.
- 40.01 Set an iron post, 3 ft. long, 1 in. in diam., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$$\frac{1}{4} S 4$$

$$S 9$$

1921

from which,

A cottonwood, 10 ins. in diam., brs. S. $29^{\circ}50'E.$,
836 lks. dist., marked $\frac{1}{4}$ S 9 BT.

Part (completion) of Subdivision lines of T. 4 S., R. 29 E. 61

Chains.	
	No other trees within limits; raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor. From this cor., N. end of moving picture theatre brs. N. 75° 12' E. A telephone line pole brs. N. 62½° W. 9 lks. dist. Ascend 775 ft., over NE. slope to sec. cor. Arizona Copper Company's trolley, brs. N. 35° W., and S. 35° E.
52.07	Graded trail, brs. N. and S.
70.68	The cor. of secs. 4, 5, 8 and 9.
80.02	Land, mountainous. Soil, rocky, 4th rate. No timber. Undergrowth, dense catclaw, manzanita, ocotillo and other cacti.

	N. 0° 4' W., on a random line, bet. secs. 4 and 5. Set temp. ¼ sec. cor.
40.00	Intersect the cor. of secs. 4, 5, 32 and 33, on N. bdy. of Tp., hereinbefore described.
84.70	Thence, S. 0° 4' E., on a true line, bet. secs. 4 and 5. Over mountainous land, thru. dense undergrowth. Ascend 460 ft., over E. and NE. slopes.
16.62	Point of spur, slopes E. Descend 340 ft., over SE. slope.
25.25	Ascend 50 ft., over NE. slope.
29.27	Power line, brs. N. 75° E. and S. 75° W.
34.40	Point of spur, slopes SE. From this point, U.S. L.M. No. 3 Greenlee Gold Mountain Mining District, brs. N. 65° 50' E. 1.10 chs. dist. West end of Coronado incline brs. S. 75½° W.
44.70	Descend 400 ft., over S. slope, to old road, brs. NE. and SW. Set an iron post, 3 ft. long, 1 in. in diam., on bed rock, supported by a mound of stone, for ¼ sec. cor., marked on brass cap, S 5 ^¼ S 4 1921
	from which, An oak, 4 ins. in diam., brs. S. 24° 25' E., 132 lks. dist., marked B T. An oak, 8 ins. in diam., brs. S. 75° 48' W., 78 lks. dist., marked ¼ S 5 B T.
	Descend 95 ft., over S. slope.
46.66	Two wire power line, brs. NE. and SW.
48.47	Gulch, course E. near head. Ascend 290 ft., over N. slope.
51.20	Same old road, brs. E. and W.
51.41	Spur, slopes E. From this point, NW. cor. Coronado mine office brs. S. 64° 35' W. NE. cor. Arizona Copper Company's store and post office in town of Metcalf, brs. S. 75° 41' E. West end of Coronado incline brs. N. 85° 30' W.
57.83	Descend 290 ft. over S. slope. SW. cor. of house brs. East 20 lks. dist.
58.26	Narrow gauge railroad track, brs. E. and W.
58.88	Road, brs. E. and W.
59.66	Narrow gauge railroad track, brs. E. and W.
60.16	Wash in Coronado gulch, course E. Ascend 545 ft., over NE. slope, to sec. cor.
64.16	Power line brs. NW. and SE.
64.66	Arizona Copper Company's trolley track, brs. NW. and SE.
84.70	The cor. of secs. 4, 5, 8 and 9. Land, mountainous. Soil, rocky, 4th rate.

62 Part (completion) of Subdivision lines of T.4 S., R.29 E.

Chains.

No timber.

Undergrowth, dense scrub oak, catclaw, manzanita, tesota, ocotillo and other cacti.

-
- From the cor. of secs. 31 and 32, on the S. bdy. of the Tp., hereinbefore described,
N. 0° 1' W., bet. secs. 31 and 32.
Over mountainous land, thru. scattering undergrowth.
Descend 80 ft., over NE. slope.
- 6.69 Wash, 20 lks. wide, in gulch, course S. 45° E.
Ascend 257 ft., over SW. slope.
- 18.92 Spur, slopes S. 45° E.
Descend 200 ft., over NE. slope.
- 33.13 Gulch, near head, course S. 55° E.
Ascend 71 ft., over SE. slope.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

+
S31 S32

1921

and raise a mound of stone, 4 ft. base, 3 ft. high, W. of cor.

- 49.99 Ascend 35 ft., over SE. slope.
Ridge, brs. N. 20° E. and S. 40° W.
Ascend 155 ft. over W. slope.
- 67.81 Descend 15 ft., over NW. slope.
- 71.20 Gulch, course S. 30° W. near head.
Ascend 125 ft. over S. slope.
- 79.22 Spur, slopes SW. from E.
Descend 22 ft. over N. slope, to
- 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 18 ins. in the ground to bed rock, supported by a mound of stone, for cor. of secs. 29, 30, 31 and 32, marked on brass cap,

T4S R29E
S30 S29

S31 S32

1921

and raise a mound of stone, 4 ft. base, 3 ft. high, W. of cor.

Land, mountainous.

Soil, rocky, 4th rate.

No timber.

Undergrowth, scattering catclaw, scrub mesquite, black brush, rabbit brush and cacti.

-
- N. 89° 59' E., on a random line, bet. secs. 29 and 32.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.00 Intersect N. and S. line, 7 lks. N. of the cor. of secs. 28, 29, 32 and 33.
- Thence,
N. 89° 58' W., on a true line, bet. secs. 29 and 32.
Over mountainous land, thru. dense undergrowth.
Descend slightly over NW. slope.
- 9.33 Wash, 20 lks. wide, in gulch, course N. 45° E.
Ascend 475 ft., over NE. slope.
- 20.19 Point of spur, slopes N.
Descend 230 ft., over NW. slope, to
- 40.00 Gulch, course N., near head. Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground to bed rock, supported by a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,

BOOK 103

Part (completion) of Subdivision lines of T14 S. R. 29 E. 63

Chains.	
	$\frac{1}{4}$ S 29 $\frac{1}{4}$ S 32 1921
	and raise a mound of stone, 4 ft. base, 3 ft. high, N. of cor.
46.49	Ascend 32 ft., along N. slope, to Head of gully, course N.
52.07	Ascend 143 ft., over NE. slope. Ridge, brs. N. 45° W. and S. 50° E.
57.96	Descend 90 ft., over SW. slope. Head of gulch, course S. 35° W.
69.31	Ascend 121 ft. over SE. slope. Ridge, brs. NE. and SW. Spur slopes W. from this ridge, at about 50 lks. SW. from this point. Desc. 356 ft. over NW. slope, to
80.00	The cor. of secs. 29, 30, 31 and 32. Land, mountainous. Soil, rocky, 4th rate. No timber. Undergrowth, dense catclaw, scrub mesquite, scrub oak, Spanish dagger, rabbit brush and cacti.

40.00	West, on a random line, bet. secs. 30 and 31. Set temp. $\frac{1}{4}$ sec. cor.
115.45	Intersect the cor. of secs. 25, 30, 31 and 36, on the W. bdy. of the Tp., which is an iron post, 3 ins. in diam., projecting 12 ins. above ground, firmly set, properly marked on brass cap, and witnessed by a mound of stone, W. of cor., and one properly marked bearing tree, A pine, 7 ins. in diam., S. 36° E., 103 lks. dist.
	Thence, East, on a true line, bet. secs. 30 and 31. Over mountainous land, thru. dense undergrowth.
5.81	Descend 52 ft., over NE. slope. Gulch, near head, course N. 45° W.
9.45	Ascend 60 ft., over W. slope. Spur, slopes N. 40° W.
17.60	Descend 69 ft., over NE. slope. Gulch, near head, course N. 45° W.
26.54	Ascend 210 ft., over NW. slope. Spur, slopes N. 20° W.
37.07	Descend 55 ft., over NE. slope. Head of gully, course N.
42.00	Ascend 46 ft., over NW. slope. Short spur, slopes N.
47.00	Descend 77 ft., over NE. slope. Gully, course N. 15° W. heads 3 chs. S.
50.25	Ascend 55 ft., over NW. slope. Short spur, slopes N.
55.07	Descend 89 ft., over NE. slope. Gulch, course N. 25° W. heads 5 chs. SE.
61.05	Ascend 152 ft., over NW. slope. Ridge, brs. N. 45° E. and S. 45° W.
75.45	Descend 81 ft., over SE. slope, to Set an iron post, 3 ft. long, 1 in. in diam., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,
	$\frac{1}{4}$ S 30 $\frac{1}{4}$ S 31 1921
	and raise a mound of stone, 4 ft. base, 3 ft. high, N. of cor.
77.53	Descend 25 ft., over SE. slope. Wash, 20 lks. wide, in ravine, course S. 10° W.
102.63	Ascend 230 ft., over W. slope. Spur, slopes S. 45° W.
108.62	Descend 21 ft., over SE. slope. Ascend 27 ft., over S. slope, to

64 Part (completion) of Subdivision lines of T. 4 S. R. 29 E.

Chains.

- 111.84 Gully, course S.45°W.
Ascend 71 ft., over NW. slope, to
- 115.45 The cor. of secs. 29, 30, 31 and 32.
Land, mountainous.
Soil, rocky, 4th rate.
No timber.
Undergrowth, dense scrub oak, scrub mesquite, catclaw, rabbit brush, black brush, ocotillo and other cacti.

- N.0°1'W., bet. secs. 29 and 30.
Over mountainous, land, thru. dense undergrowth.
Descend slightly over NW. slope.
- 0.20 Gully, course S.80°W.
Ascend 30 ft., over S. slope.
- 3.48 Spur, slopes W.
Descend 155 ft., over NW. slope.
- 20.87 Wash in bottom of ravine, course S.45°W.
Ascend 300 ft., over SE. slope.
- 36.71 Ridge, brs. NE. and SW.
Descend 65 ft., over NW. slope, to
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$$\begin{array}{c} \frac{1}{4} \\ \text{S30} | \text{S29} \end{array}$$

1921

and raise a mound of stone, 4 ft. base, 3 ft. high, W. of cor.

- 44.98 Descend 123 ft., over NW. slope.
Gulch, course N.85°W. near head.
Ascend 122 ft., over SW. slope.
- 50.08 Point of short spur, slopes W.
Descend 64 ft., over NW. slope.
- 54.07 Gulch, course S.40°W. near head.
Ascend 132 ft., over S. slope.
- 60.48 Spur, slopes S.62°W.
Descend 100 ft., over NW. slope.
- 64.22 Gulch, course S. 75°W.
Ascend 163 ft., over SW. slope.
- 73.93 Spur, slopes S.80°W. from E.
Descend 12 ft., over NW. slope, to
- 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 19, 20, 29 and 30, marked on brass cap,

$$\begin{array}{c} \text{T4S} | \text{R29E} \\ \text{S19} | \text{S20} \\ \text{S30} | \text{S29} \\ 1921 \end{array}$$

and raise a mound of stone, 4 ft. base, 3 ft. high, W. of cor.

Land, mountainous.
Soil, rocky, 4th rate.
No timber.
Undergrowth, dense greasewood, scrub mesquite, black brush and cacti.

- 40.00 S.89°58'E., on a random line, bet. secs. 20 and 29.
Set temp. $\frac{1}{4}$ sec. cor.
- 80.10 Intersect N. and S. line, 5 lks. S. of the cor. of secs. 20, 21, 28 and 29.
Thence,
West, on a true line, bet. secs. 20 and 29.

Part (completion) of Subdivision lines of T. 4 S. R. 29 E. 65

Chains.

Over mountainous land, thru. dense undergrowth.
 Ascend 145 ft., over SE. slope.
 14.80 Point of spur, slopes S.
 Descend 70 ft., over SW. slope.
 20.85 Gully, course S. 20° E.
 Ascend 27 ft., over SE. slope.
 22.37 From this point Cor. No. 2 of Free Coinage patented lode mining claim, Mineral Survey No. 2856, Greenlee Gold Mountain Mining District, brs. S. 9° 5' E., 0.29 chs. dist.
 24.23 Point of spur, slopes S.
 Descend 30 ft., over SW. slope.
 35.20 Gulch, course S. 45° E.
 Ascend 90 ft., over SE. slope, to
 40.05 Set an iron post, 3 ft. long, 1 in. in diam., on bed rock, supported by a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$$\frac{1}{4} \begin{array}{l} S \ 20 \\ S \ 29 \\ 1921 \end{array}$$
 and raise a mound of stone, 4 ft. base, 3 ft. high, N. of cor.
 Ascend 355 ft., over SE. slope.
 54.99 From this point, Detroit Copper Mining Company's triangulation station No. 591, brs. N. 39° W.
 59.25 Ridge, brs. N. 50° E. and S. 50° W. At about 100 lks. SW. from this point, a spur, slopes W.
 From this point, Detroit Copper Mining Company's triangulation station No. 591 brs. N. 63° 20' E.
 Descend 390 ft. over NW. slope, near top of spur, to sec. cor.
 80.10 The cor. of secs. 19, 20, 29 and 30.
 Land, mountainous.
 Soil, rocky, 4th rate.
 No timber.
 Undergrowth, dense greasewood, scrub mesquite, catclaw, black brush, rabbit brush, ocotillo and other cacti.

West, on a random line, bet. secs. 19 and 30.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 114.92 Fall 18 lks. S. of the cor. of secs. 19, 24, 25 and 30, on the W. bdy. of the Tp., which is an iron post, 3 ins. in diam., projecting 12 ins. above ground, firmly set, properly marked on brass cap, and witnessed by a mound of stone, W. of cor.
 No bearing trees.
 Thence,
 S. 89° 55' E., on a true line, bet. secs. 19 and 30.
 Over mountainous land, thru. dense undergrowth.
 Ascend 230 ft., over SW. slope.
 10.50 Morenci water supply mains, two 12 in. pipes, bear N. 45° E. and S. 45° W., alongside road, same bearing.
 11.66 Spur, slopes S. 20° W.
 Descend 175 ft., over SE. slope.
 19.91 Gulch, course S. 15° W.
 Ascend 100 ft., over SW. slope.
 24.88 Two wire telephone line, brs. N. 50° E. and S. 50° W.
 25.88 Descend 52 ft., over SE. slope.
 27.31 Ten in. pipe line, brs. NE. and SW.
 29.04 Gulch, course S. 20° W.
 Ascend 72 ft. over SW. slope.
 31.83 Spur, slopes S.
 Descend 155 ft., over SE. slope.
 39.52 Wash, 30 lks. wide, in bottom of Gold Gulch, course S. 35° W.
 Ascend 140 ft., over SW. slope.
 48.77 Descend 25 ft., over SE. slope, to

66 Part (completion) of Subdivision lines of T.4 S. R.29 E.

Chains.	
51.45	From this point, cor. No. 3 of Tonto patented lode mining claim, Mineral Survey No. 1764A., Greenlee Gold Mountain Mining District, brs. S. 31°25'E., 1.87 chs. dist. Ascend 185 ft. over SW. slope.
67.54	Point of spur, slopes S. Descend 90 ft., over SE. slope.
74.27	Wash, 30 lks. wide, in ravine, course S. 20°W. Ascend slightly over NW. slope, to
74.92	Set an iron post, 3 ft. long, 1 in. in diam., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 19 S 30 1921
	and raise a mound of stone, 4 ft. base, 3 ft. high, N. of cor. From this cor., U.S.L.M. No. 1764A, Greenlee Gold Mountain Mining District, brs. N. 7°19'E. Ascend 100 ft., over NW. slope, to
83.33	Gulch, course N. 45°W. Ascend 375 ft., over NW. slope to sec. cor.
87.31	From this point, U.S.L.M. No. 1764A, Greenlee Gold Mountain Mining District, brs. N. 22°48'W. Detroit Copper Mining Company's triangulation station No. 85, brs. N. 22°W.
91.55	Pack trail, brs. NE. and SW.
114.92	The cor. of secs. 19, 20, 29 and 30. From this cor., U.S. L.M. No. 1764A, Greenlee Gold Mountain Mining District, brs. N. 58°42'W. Detroit Copper Mining Company's triangulation station No. 85, brs. N. 58°9'W. Land, mountainous. Soil, rocky, 4th rate. No timber. Undergrowth, dense scrub oak, scrub mesquite, catclaw, rabbit brush and cacti.
	----- N. 0°2'W., bet. secs. 19 and 20. Over mountainous land, thru. dense undergrowth. Descend 210 ft., over NW. slope.
25.07	Wash, 20 lks. wide, in ravine, course SW. Ascend 148 ft., over SE. slope, to $\frac{1}{4}$ sec. cor.
39.67	From this point, cor. No. 5 of Senator patented lode mining claim, Mineral Survey No. 2858, Greenlee Gold Mountain Mining District, brs. West 0.08 chs. dist.
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, S 19 S 20 1921
	and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
45.63	Ascend 135 ft., over SE. slope. Ridge, brs. NE. and SW. Descend 348 ft., over NW. slope.
53.00	New Eagle Creek road, brs. E. and W.
59.50	Morenci Water Company's pipe lines, bear E. and W.
60.50	Two wire telephone line, brs. E. and W.
65.31	Wash, 70 lks. wide, course SW. in bottom of Gold Gulch. A wash from N. enters at this point. Ascend 40 ft., in bottom of wash, to
74.50	Leave wash, course S. from N. 10°W.

Part (completion) of Subdivision lines of T.4 S. R.29 E. 67

- Chains.
- 80.00 Ascend 52 ft., over SW. slope, to
Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 17, 18, 19 and 20, marked on brass cap,
- | | |
|-----|------|
| T4S | R29E |
| S18 | S17 |
| S19 | S20 |
- 1921
- and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
- Land, mountainous.
Soil, rocky, 4th rate.
No timber.
Undergrowth, dense catclaw, scrub oak, tesota, ocotillo and other cacti.
-
- 40.00 East, on a random line, bet. secs. 17 and 20.
Set temp. $\frac{1}{4}$ sec. cor.
- 80.32 Intersect N. and S. line, 7 lks. S. of the cor. of secs. 16, 17, 20 and 21.
Thence,
S. $89^{\circ}57'W.$, on a true line, bet. secs. 17 and 20.
Over mountainous land, thru. dense undergrowth.
Ascend 187 ft., over E. slope.
- 4.20 Eagle Creek road, brs. N. and S.
- 6.63 Ridge, brs. N. and S.
Descend 355 ft., over W. slope.
- 14.18 From this point, cor. No. 3 of Seneca patented lode mining claim, Mineral Survey No. 3362, Greenlee Gold Mountain Mining District, brs. South 0.95 chs. dist.
- 21.04 Wash, 20 lks. wide, in gulch, course SW.
Ascend 70 ft., over SE. slope.
- 26.34 Ridge, brs. NE. and SW. From this point, cor. No. 1 of Dorcas patented lode mining claim, Mineral Survey No. 3546, Greenlee Gold Mountain Mining District, brs. N. $72^{\circ}W.$
- Mine shaft brs. N. $49^{\circ}35'W.$
House (No. 1) brs. S. $22^{\circ}45'W.$
House (No. 2) brs. S. $7^{\circ}30'W.$
- At a point N. $86^{\circ}35'E.$ 71.50 chs. dist., reestablish U.S.M.M. No. 4; Greenlee Gold Mountain Mining District, by setting an iron post 3 ft. long, 2 ins. in diam., 12 ins. in the ground, marked U.S.M.M. No. 4 on brass cap, Reestablished this monument by course and distance from Detroit Copper Mining Company's triangulation station, using data furnished by Mr. Robinson, Chief Engineer, Detroit Copper Mining Company, at Morenci.
- As the view to the surrounding land marks from Mineral Monument No. 4 is limited, only the following bearings were available;
- Main shaft Arizona Copper Company's mine at Morenci brs. N. $80^{\circ}48'E.$
Flag on Morenci Club House brs. S. $54^{\circ}22'W.$
Flag on Detroit Copper Company's store at Morenci brs. N. $60^{\circ}4'W.$
Flag on Postoffice at Morenci, brs. S. $69^{\circ}15'W.$
Center of Gable on S. end of Arizona Copper Company's store brs. N. $11^{\circ}33'E.$
- Continue line and measurement.
- 28.79 Descend 255 ft. over NW. slope to $\frac{1}{4}$ sec. cor.
From this point, cor. No. 3 of Copper Bar patented lode mining claim, Mineral Survey No. 2858, Greenlee Gold Mountain Mining District, brs. North 0.26 chs. dist.
- 40.16 Set an iron post, 3 ft. long, 1 in. in diam., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

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Chains.

$$\frac{1}{4} \frac{S 17}{S 20}$$
 1921

- and raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.
- 42.78 Descend 15 ft., over NW. slope.
Center of wash, 100 lks. wide in bottom of Gold Gulch, course SW.
Descend 58 ft., along S. slope.
- 45.32 Old trail, brs. NE. and SW.
- 45.78 From this point, mine shaft brs. N. $30^{\circ}8'W$,
Cor. No. 1 of Dorcas patented lode mining claim,
Mineral Survey No. 3546, Greenlee Gold Mountain
Mining District, brs. N. $31^{\circ}18'W$.
- 55.54 From this point cor. No. 2 of Bacon Rind, and cor. No. 3 of
Fairview patented lode mining claims, Mineral Survey No.
2858, Greenlee Gold Mountain Mining District, brs. N. 1 ch.
dist. Ascend 35 ft. over SE. slope.
- 60.27 Spur, slopes SW. From this point, House (No. 1) brs. S. $37^{\circ}E$.
Descend 133 ft., over W. slope.
- 70.26 Wash, 60 lks. wide, course S. Asc. 73 ft., over E. slope.
- 75.41 Spur, slopes S., Desc. 65 ft., over W. slope, to
- 80.32 The cor. of secs. 17, 18, 19 and 20.
Land, mountainous.
Soil, rocky, 4th rate.
No timber.
Undergrowth, dense greasewood, scrub mesquite, catclaw,
black brush, rabbit brush, ocotillo and other cacti.

- 40.00 N. $89^{\circ}55'W$, on a random line, bet. secs. 18 and 19.
Set temp. $\frac{1}{4}$ sec. cor.
- 114.69 Fall 17 lks. S. of cor. of secs. 13, 18, 19 and 24, on W. bdy.
of Tp., which is an iron post, 3 ins. in diam., pro-
jecting 12 ins. above ground, firmly set, properly
marked on brass cap, witnessed by two properly marked
bearing trees as follows:
A cottonwood, 10 ins. in diam., N. $1^{\circ}E$, 29
lks. dist., and
A cottonwood, 8 ins. in diam., N. $50^{\circ}W$, 48
lks. dist.
and also a mound of stone, W. of cor.
- Thence,
S. $89^{\circ}50'E$, on a true line, bet. secs. 18 and 19.
Over mountainous land, thru. dense undergrowth.
Ascend 260 ft., over NW. slope.
- 10.91 Spur, slopes N.
Descend 70 ft., over NE. slope.
- 14.21 Head of gulch, course N.
Ascend 180 ft., over NW. slope.
- 21.64 Spur, slopes S. $45^{\circ}W$.
Ascend 270 ft. over S. and SW. slopes.
- 52.35 Pack trail, brs. NW. and SE.
- 54.45 Ridge, brs. S. $30^{\circ}W$ and S. $30^{\circ}E$. Saddle in same, brs. SE.
4 chs. dist. Desc. 303 ft., over NE. slope.
- 68.72 Gulch, course S. $60^{\circ}E$.
Ascend 50 ft., over SW. slope, to
- 74.69 Point of spur, slopes S. $55^{\circ}E$. Set an iron post, 3 ft.
long, 1 in. in diam., 24 ins. in the ground, for $\frac{1}{4}$
sec. cor., marked on brass cap.

$$\frac{1}{4} \frac{S 18}{S 19}$$
 1921

and raise a mound of stone, 4 ft. base, 3 ft. high, N. of cor.

Chains.	
80.80	Descend 120 ft., over E. slope. Wash, 20 lks. wide, in bottom of Pinkard Gulch, course S. 15° E. Ascend 325 ft., over W. slope.
94.29	Small peak at S. end of ridge, bearing N. and S. From this point, U.S.L.M. No. 1764A, Greenlee Gold Mountain Mining dist., brs. S. 16° 13' W. Detroit Copper Company's triangulation station No. 85 brs. S. 16° 3' W.
94.34	Descend 440 ft., over E. slope. From this point, Detroit Copper Mining Company's triangulation station No. 221, brs. S. 0.09 chs. dist.
113.38	Wash, in gulch, course S. 15° E. Asc. 135 ft., over W. slope, to
114.69	The cor. to secs. 17, 18, 19 and 20. Land, mountainous. Soil, rocky, 4th rate. No timber. Undergrowth, dense scrub oak, greasewood, catalaw, scrub mesquite, scrub cedar and cacti.
15.66	N. 0° 2' W., bet. secs. 17 and 18. Over mountainous land, thru. dense undergrowth. Asc. 305 ft. From this point, cor. No. 1 of Cuba Extension patented lode mining claim, Mineral Survey No. 3376, Greenlee Gold Mountain Mining District, brs. S. 87° 25' E., 2.96 chs. dist.
20.52	Point of spur, slopes S. 45° W. Descend 50 ft.
35.29	From this point, cor. No. 4 of Cortez patented lode mining claim, Mineral Survey No. 3376, Greenlee Gold Mountain Mining District, brs. N. 84° 30' E., 63 lks. dist.
37.88	Gulch, near head, course S. 15° W. Asc. 90 ft. over SE. slope, to
40.00	Top of cliff, 20 ft. high, brs. N. 15° E. and S. 15° W. facing SE. Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground, to bed rock, supported by mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S18 S17 1921 and raise a mound of stone, 4 ft. base, 3 ft. high, W. of cor.
48.19	Ascend 810 ft., over SE. slope. Pack trail, brs. E. and W.
68.14	Spur, slopes SE. Desc. 75 ft., over NE. slope.
76.66	Ascend 30 ft., over SE. slope.
78.81	Descend 35 ft., over E. slope, to
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 7, 8, 17 and 18, marked on brass cap, T4S R29E S 7 S 8 S18 S17 1921 and raise mound of stone, 4 ft. base, 3 ft. high, W. of cor. Land, mountainous, Soil, rocky, 4th rate. No timber. Undergrowth, dense greasewood, black brush, ocotillo, and other cacti.
40.00	N. 89° 57' E., on a random line, bet. secs. 8 and 17. Set temp. $\frac{1}{4}$ sec. cor.
80.38	Intersect N. and S. line, 14 lks. S. of the cor. of secs. 8, 9, 16 and 17. Thence, S. 89° 51' W., on a true line, bet. secs. 8 and 17. Over mountainous land, thru. dense undergrowth. Ascend 235 ft., over SE. slope.
9.98	Ridge, brs. N. 45° E. and S. 45° W. Desc. 188 ft., over NW. slope.
17.29	From this point, cor. No. 4 of Tough Nut patented lode mining claim, Mineral Survey No. 3413, Greenlee Gold Mountain Mining District, brs. South 5.30 chs. dist.
18.93	Trail brs. N. 40° E. and S. 40° W. in bottom of ravine, course N. 40° E. Asc. 316 ft., over SE. slope to $\frac{1}{4}$ sec. cor.
25.87	Pack trail, brs. N. and SE.
40.19	Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground to bed rock, supported by a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,

70 Part (completion) of Subdivision lines of T.4 S., R. 29 E.

Chains.

$$\frac{1}{4} \frac{S \ 8}{S \ 17}$$
 1921

- and raise a mound of stone, 4 ft. base, 3 ft. high, N. of cor. Asc. 25 ft., over SE. slope.
- 42.48 Ridge, brs. N. 20° E. and S. 20° W. Trail, brs. N. 80° W. and S. 80° E. Descend 220 ft., over SW. slope.
- 67.84 Head of ravine, course S. Ascend 260 ft., over SE. slope, to
- 80.38 The cor. of secs. 7, 8, 17 and 18. Land, mountainous. Soil, rocky, 4th rate. No timber. Undergrowth, dense greasewood, black brush, catclaw and cacti.
-
- N. 89° 50' W., on a random line, bet. secs. 7 and 18.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 114.78 Fall 35 lks. N. of the cor. of secs. 7, 12, 13 and 18, on the W. bdy. of the Tp., which is an iron post, 3 ins. in diam., projecting 12 ins. above ground, firmly set, properly marked on brass cap, and witnessed by a mound of stone W. of cor. No bearing trees. Thence, East, on a true line, bet. secs. 7 and 18. Over mountainous land, thru. dense undergrowth. Descend 40 ft., over SE. slope.
- 5.71 Ascend 10 ft. over S. slope, to
- 6.80 Gulch, course S. 50° W. Asc. 75 ft., over SW. slope.
- 10.44 Point of spur, slopes S. 45° W. Desc. 25 ft. over SE. slope.
- 18.42 Gulch, course S. into ravine, course W. at 2.00 chs. S. of this point. Asc. 90 ft., over SW. slope.
- 34.90 Point of spur, slopes S. Desc. 42 ft., over SE. slope.
- 36.95 Gully, course S. into ravine, course W. at 2.00 chs. S. of this point. Asc. 5 ft., over SW. slope.
- 43.72 Descend 50 ft., over SE. slope.
- 44.90 Bottom of ravine, course S. 45° W. for 2.00 chs.; thence W. Ascend 367 ft., over NW. slope.
- 46.36 Pack trail, brs. NE. and SW.
- 65.40 Top of cliff, 125 ft. high, brs. NE. and SW. facing NW. Ascend 160 ft., over NW. slope, to
- 74.78 Ridge, brs. N. 30° E. and S. 30° W. Set an iron post, 3 ft. long, 1 in. in diam., 24 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
- $$\frac{1}{4} \frac{S \ 7}{S \ 18}$$
- 1921
- and raise mound of stone, 4 ft. base, 3 ft. high, N. of cor. Descend 160 ft., over SE. slope.
- 82.16 Pinkard Gulch, course S. 20° W. Asc. 355 ft., over NW. slope.
- 102.00 Point of spur slopes NW. at NE. end of cliff 30 ft. high, bearing NE. and SW., facing NW. Desc. 25 ft. over NE. slope.
- 106.30 Head of gulch, course N. 80° W. Ascend 110 ft. over NW. slope.
- 109.33 Pack trail, brs. E. and W.
- 113.60 Ridge, brs. N. 10° E. and S. 10° W. Saddle in same, brs. N. 150 lks. dist. Desc. 10 ft., over E. slope, to
- 114.78 The cor. of secs. 7, 8, 17 and 18. Land, mountainous. Soil, rocky, 4th rate. No timber. Undergrowth, dense greasewood, catclaw, black lotus, black brush, Spanish dagger, ocotillo and other cacti.
-
- N. 0° 2' W., bet. secs. 7 and 8. Over mountainous land, thru. dense undergrowth. Descend 30 ft., over NE. slope, to
- 2.66 Pack trail, brs. E. and W. Asc. 75 ft., over SE. slope.
- 7.86 Ridge, brs. N. 30° E. and S. 10° W. Desc. 265 ft., over NW. slope.
- 17.21 Pinkard Gulch, course S. 45° W. Asc. 230 ft., over SE. slope.

Part(completion)of Subdivision lines of T.4 S.,R.29 E. 71

Chains.	
25.08	Point of spur, slopes S.60°E. Desc.75 ft. over NE. slope.
28.00	From this point, rock corral, brs. East 0.50 chs. dist.
29.95	Pinkard Gulch, course S.30°E. Ascend 145 ft. over SW. slope, to
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\begin{array}{c} \frac{1}{4} \\ \text{S } 7 \frac{1}{4} \text{ S } 8 \\ 1921 \end{array}$ and raise a mound of stone, 4 ft. base, 3 ft. high, W. of cor. Ascend 255 ft., over SW. slope.
49.85	Short spur, slopes S.80°W. Desc. 95 ft., over NW. slope.
56.18	Head of Pinkard Gulch, course SW. Asc. 165 ft. over S. slope.
62.79	From this point, cor. No. 3 of Gov. Taft patented lode mining claim, Mineral Survey No. 3346, Greenlee Gold Mountain Mining District, brs. S. 62°30'W., 3.61 chs. dist.
68.35	Ridge, brs. E. and W. Desc. 165 ft., over N. slope.
75.95	Gulch, near head, course N.80°W. Asc. 65 ft. over SW. slope, to
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 5, 6, 7 and 8, marked on brass cap, $\begin{array}{c} \text{T4S} \text{R29E} \\ \text{S } 6 \text{S } 5 \\ \text{S } 7 \text{S } 8 \\ 1921 \end{array}$ and raise a mound of stone, 4 ft. base, 3 ft. high, W. of cor. From this cor., U.S.M.M. No. 1, Greenlee Gold Mountain Mining District, brs. N. 64°43'W. Land, mountainous. Soil, rocky, 4th rate. No timber. Undergrowth, dense scrub oak, catclaw and cacti.

40.00	N. 89°51'E., on a random line, bet. secs. 5 and 8. Set temp. $\frac{1}{4}$ sec. cor.
80.40	Intersect N. and S. line, 30 lks. N. of the cor. of secs. 4, 5, 8 and 9. Thence, N. 89°56'W., on a true line, bet. secs. 5 and 8. Over mountainous land, thru. dense undergrowth. Ascend 145 ft., over NE. slope.
3.67	Top of cliffs, 100 ft. high, bearing N. 70°E. and S. 70°W., facing NW. Descend 16 ft. over NW. slope.
5.54	Gulch, near head, course NE. Asc. 220 ft., over SE. slope.
13.14	Ridge, brs. N. and S. Saddle in same, brs. S. 5.00 chs. dist. Descend 478 ft., over SW. slope.
27.06	Pack trail, brs. N. 45°W. and S. 45°E.
27.79	Four wire power transmission line, brs. N. 15°W. and S. 15°E.
31.54	Gulch, course N. 40°W. Asc. 30 ft., over E. slope.
36.40	Spur, slopes S. 45°E. Desc. 30 ft., over NW. slope.
39.10	Gulch, course N. 45°E. Asc. 50 ft., over SE. slope, to
40.20	Set an iron post, 3 ft. long, 1 in. in diam., on bed rock, supported by a mound of stone for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4} \frac{\text{S } 5}{\text{S } 8}$ 1921 and raise mound of stone, 4 ft. base, 3 ft. high, N. of cor. Ascend 335 ft., over SE. slope, to
49.96	Spur, slopes N. 45°E. Asc. 125 ft., over N. slope, to
56.67	Ledge of rock, 50 ft. high, bearing NE. and SW. The NE. end of same brs. NE. 150 lks. dist. Ascend 90 ft., over N. slope, to
63.90	Gulch, course N. 45°E. Asc. 243 ft., over SE. slope.
70.40	Spur, slopes N. 45°E. Asc. 65 ft., over N. and NE. slopes.
76.40	Saddle in ridge, bears N. 20°W. and S. 20°E. Descend 15 ft., over SW. slope, to
80.40	The cor. of secs. 5, 6, 7 and 8. Land, mountainous,

72 Part (completion) of Subdivision lines of T.4 S. R.29 E.

Chains.	Soil, rocky, 4th rate. No timber. Undergrowth, dense scrub cedar, catclaw, lotus, black brush and cacti.

	West, on a random line, bet. secs. 6 and 7.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
114.81	Fall 10 lks. S. of the cor. of secs. 1, 6, 7 and 12, on the W. bdy. of the Tp., which is an iron post, 3 ins. in diam., projecting 12 ins. above ground, firmly set, properly marked on brass cap, and witnessed by a mound of stone, W. of cor., and one properly marked bearing tree, a pine 6 ins. in diam., S. $84\frac{1}{2}^{\circ}$ W., 15 lks. dist.
	Thence, S. $89^{\circ}57'$ E., on a true line, bet. secs. 6 and 7. Over mountainous land, thru. dense undergrowth. Descend 85 ft., over NE. slope.
4.90	Ravine, course N. 60° W. Old mine and buildings on line. Ascend 361 ft., over SW. slope.
20.49	Spur, slopes N. 50° W. Asc. 295 ft. over N. and NW. slopes, to
46.53	Same spur, slopes S. 75° W. From this point, cor. No. 1 of Keystone No. 2 patented lode mining claim, Mineral Survey No. 3346, Greenlee Gold Mountain Mining District, brs. S. 33° E., 3.16 chs. dist. Ascend 55 ft., over SW. slope.
52.97	Ridge, brs. N. 45° E. and S. 45° W. Desc. 265 ft. over SE. slope.
67.00	Ravine, course S., heads 10 chs. N. Ascend 165 ft., over SW. slope, to
74.81	Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground, to bed rock, supported by a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\begin{array}{r} \frac{1}{4} \text{ S } 6 \\ \text{S } 7 \\ 1921 \end{array}$
	and raise mound of stone, 4 ft. base, 3 ft. high, N. of cor. Ascend 221 ft., over SW. slope.
87.78	Ridge, brs. N. 30° W. and S. 30° E. Desc. 150 ft., over NE. slope.
88.78	Pack trail, brs. NW. and SE.
88.95	From this point, U.S.M.M. No. 1, Greenlee Gold Mountain Mining District, brs. N. $31^{\circ}20'$ W.
108.56	Gulch, near head, course N. 70° W. Ascend 117 ft., over SW. slope, to
114.81	The cor. of secs. 5, 6, 7 and 8. Land, mountainous. Soil, rocky, 4th rate. No timber. Undergrowth, dense scrub oak, catclaw and cacti.

	N. $0^{\circ}5'$ W.; on a random line, bet. secs. 5 and 6.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
84.41	Fall 24 lks. W. of the cor. of secs. 5, 6, 31 and 32, on N. bdy. of Tp., hereinbefore described. Thence, S. $0^{\circ}5'$ W., on a true line, bet. secs. 5 and 6. Over mountainous land, thru. dense undergrowth. Ascend 40 ft., over NE. slope.
1.54	Point of spur, sloping SE. at W. rim of Santa Rosa gulch, Descend 366 ft., over SE. slope.
11.44	Gulch; course S. 80° E. Ascend 375 ft., over NE. slope.
28.42	From this point Arizona Copper Company's triangulation station No. 557 brs. S. $45^{\circ}30'$ E.
29.33	From this point, Arizona Copper Company's triangulation station No. 557 brs. S. $48^{\circ}35'$ E.
29.37	Ridge, brs. NW. and SE. near SE. end of same. Descend 240 ft., over SW. slope, to
44.41	Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in

Part (completion) of Subdivision lines of T.4 S., R.29 E. 73

Chains.

the ground to bed rock, supported by a mound of stone, for $\frac{1}{4}$ sec.cor., marked on brass cap,

$\frac{1}{4}$
 S 6 | S 5
 1921

and raise a mound of stone, 5 ft. base, 3 ft. high, W. of cor.

49.84 Descend 388 ft., over SW. slope.

52.74 Narrow gauge railroad track, Metcalf to Coronado, brs. N.25°W. and S.25°E.

58.78 Four wire power transmission line, Metcalf to Coronado, brs. E. and W.

80.53 Coronado gulch, course East. Ascend 645 ft. over NE. slope.

80.72 Ridge, brs. N.70°W. and S. 20°E. near NW. end of same. Descend 61 ft., over SW. slope to sec.cor.

84.4 From this point, cor.No.2, Gov. Taft patented lode mining claim, Mineral Survey No.3346, Greenlee Gold Mountain Mining District, brs. N.87°30'W., 2.67 chs. dist. Also, Detroit Copper Mining Company's triangulation station No.101 brs. S.45°40'E., 44. lks. dist.

The cor. of secs. 5, 6, 7 and 8. Land, mountainous. Soil, rocky, 4th rate. No timber. Undergrowth, dense catchaw, lotus, black brush, scrub cypress, scrub cedar and cacti.

Boundaries of that portion of T.4 S., R.29 E., surveyed under this group.

Latitudes, Departures, and Closing Errors.

Line designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
South boundary,	West,	75.37				75.37
	N. 89° 58' W.	40.01	.02			40.01
	N. 89° 59' W.	119.82	.04			119.82
	West,	39.90				39.90
	N. 89° 57' W.	39.67	.04			39.67
	S. 89° 57' W.	39.96			.04	39.96
West boundary,	N. 89° 59' W.	80.00	.02			80.00
	West,	80.21				80.21
North boundary,	North,	483.98	483.98			
North boundary,	East,	434.98			434.98	
Subdivisional boundary,	S. 0° 18' E.	237.74		237.74	1.26	
	S. 1° 9' W.	80.02		80.00		1.61
	East,	40.00			40.00	
	S. 89° 54' E.	40.05		.07	40.05	
East boundary,	South,	80.00		80.00		
	S. 0° 1' E.	79.70		79.70	.02	
	South,	7.40		7.40		
Convergency,					.46	
Totals,			484.10	484.95	516.77	516.55
				484.10	516.55	
Error in latitude,			0.85			
Error in departure,					0.22	

The continued satisfactory adjustment of the transits during the survey of this township is indicated from field tests, as described in Book "I."

GENERAL DESCRIPTION.

This township is situated in Greenlee county, Arizona, adjoining on the west, Clifton the county seat. The surface is mountainous, the drainage of most of the township being SE. into the San Francisco river. The western part drains SW. into Eagle Creek. The elevation above sea level ranges from 3500 ft. in sec. 36 to 6800 ft. in sec. 2. The soil, with few exceptions is rocky, 4th rate. The most of the township is devoid of timber, the only timber being a scattering growth of cedar, pine, oak and juniper in the north tier of secs., and the east range of secs. There is a dense undergrowth in all sections, consisting of greasewood, catclaw, scrub mesquite, oak and cedar, manzanita, tesota and cacti. None of the water courses carry a permanent stream of water, and there are no springs in the township. Water is piped from both the San Francisco river and Eagle Creek. There is practically no grass in the township, so that the grazing value would be confined to goat raising. Valuable mineral deposits exist in nearly all sections, about one third of the area being now embraced within patented mining claims, and mining is apparently the only purpose for which the land is suitable. There are several mining towns, Metcalf in sec. 4, Coronado in sec. 6, Morenci in secs. 16 and 21, and West Clifton in sec. 25, the largest of which is Morenci. The improvements in these mining towns and on the mining claims are of considerable value. The Arizona and New Mexico Railroad, and the Morenci Southern Railroad have tracks connecting the mining towns herein, with Clifton and Guthrie. The Springerville-Clifton State Highway passes thru. this township.

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BOOK 3588

4-680

FIELD ASSISTANTS.

to Benjamin J. Kinsey, U.S. Transitman.

NAMES.	CAPACITY.
<i>John B. McClung</i>	<i>1st Chainman</i>
<i>Sterling Everett</i>	<i>2nd Chainman</i>
<i>John Boggs</i>	<i>Cornerman</i>
<i>William L. Baldwin</i>	<i>Flagman</i>
<i>Howard P. Morris</i>	<i>Axman</i>

76
ECCO 3588

CERTIFICATE OF UNITED STATES TRANSITMAN.

I, Benjamin J. Kinsey, U.S. Transitman,, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General, for Group III, Arizona bearing date of the 24th day of August, 1920, I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, ^{re} surveyed all those parts or portions of the East and North boundaries of Township 4 South, Range 29 East and surveyed all those parts or portions of the North boundary and Subdivision lines of
Township 4 South, Range 29 East
of the Gila and Salt

River Base and Meridian, in the State of Arizona, which are represented in and by diagram on page 1 hereof the foregoing field notes as having been executed by me, and under my direction; and that all the corners of said resurvey and survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General, for Group III, Arizona and in the specific manner described in the field notes, and that the foregoing are the original field notes of such resurvey and survey.

Place Phoenix, Arizona
Date May 17th 1923.

Benjamin J. Kinsey.
U. S. Transitman.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

191

The foregoing field notes of the survey of

executed by

under his special instructions dated _____, 191____, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

U. S. Surveyor General.

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.

U. S. Surveyor General.

3588

4-680

FIELD ASSISTANTS.

to William H. Thorn, U.S. Cadastral Engineer.

NAMES.	CAPACITY.
Ollie L. Thomas	1st Chainman
Chas. S. Johnson	2nd Chainman.
Homer Pepper	Cornerman.
Harold M. Morrey	Flagman.
William J. Taverner	Axman

CERTIFICATE OF UNITED STATES CADASTRAL ENGINEER.

BOOK 3588

I, William H. Thorn, U.S. Cadastral Engineer, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General, for Group III, Arizona, bearing date of the 24th day of August, 1920, I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, ^{re} surveyed all those parts or portions of the South boundary of Township 4 South, Range 29 East and surveyed all those parts or portions of the Subdivision lines of Township 4 South, Range 29 East of the Gila and Salt

River Base and Meridian, in the State of Arizona, which are represented in and by diagram on page 1 hereof the foregoing field notes as having been executed by me, and under my direction; and that all the corners of said resurvey and survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General, for Group III, Arizona and in the specific manner described in the field notes, and that the foregoing are the original field notes of such resurvey and survey.

Place Phoenix, Arizona
Date June 5th 1923

William H. Thorn
U.S. Cadastral Engineer.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix Arizona, JUN 7, 1923.

The foregoing field notes of the resurvey of the South boundary, parts of the East and North boundaries, and part of the Subdivision lines, and of the survey of part of the North boundary (completion) and part of the Subdivision lines (completion) of Township 4 South, Range 29 East of the Gila and Salt River Base and Meridian, in the State of Arizona

executed by William H. Thorn, U.S. Cadastral Engineer and Benjamin J. Kinsey, U.S. Transitman under special instructions dated August 24, 1920 for Group III, Arizona, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the they describe, are hereby approved.

Thomas C. Smith
U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above described

, has been correctly copied from the original notes on file in this office.