

3649

Book "B"

4-679

1

BOOK 3649 FIELD NOTES

OF THE RETRACEMENT OF

East boundary, and

Part of Subdivision lines of T.18 S., R.19 E.,

of the Resurvey of

East boundary of T. 18 S., R. 18 E., and the

North and South boundaries of T. 18 S., R.19 E., and

of the Survey of

Part (completion) of the Subdivision lines of

TOWNSHIP 18 SOUTH, RANGE 19 EAST,

Of the Gila and Salt River Base and Meridian,

In the State of Arizona.

EXECUTED BY

Sidney E. Blout,

U. S. Cadastral Engineer,

In the capacity of U. S. Surveyor, under Special Instructions dated December 16., 1921, issued by the United States Surveyor General to govern surveys included in Group No. 119, Arizona, which were approved by the Commissioner of the General Land Office, February 2., 19 22, and Assignment Instructions dated Sept. 15., 19 22.

Retracement,
Resurvey & Survey commenced September 30., 1922.

Retracement,
Resurvey & Survey completed November 21., 19 22.

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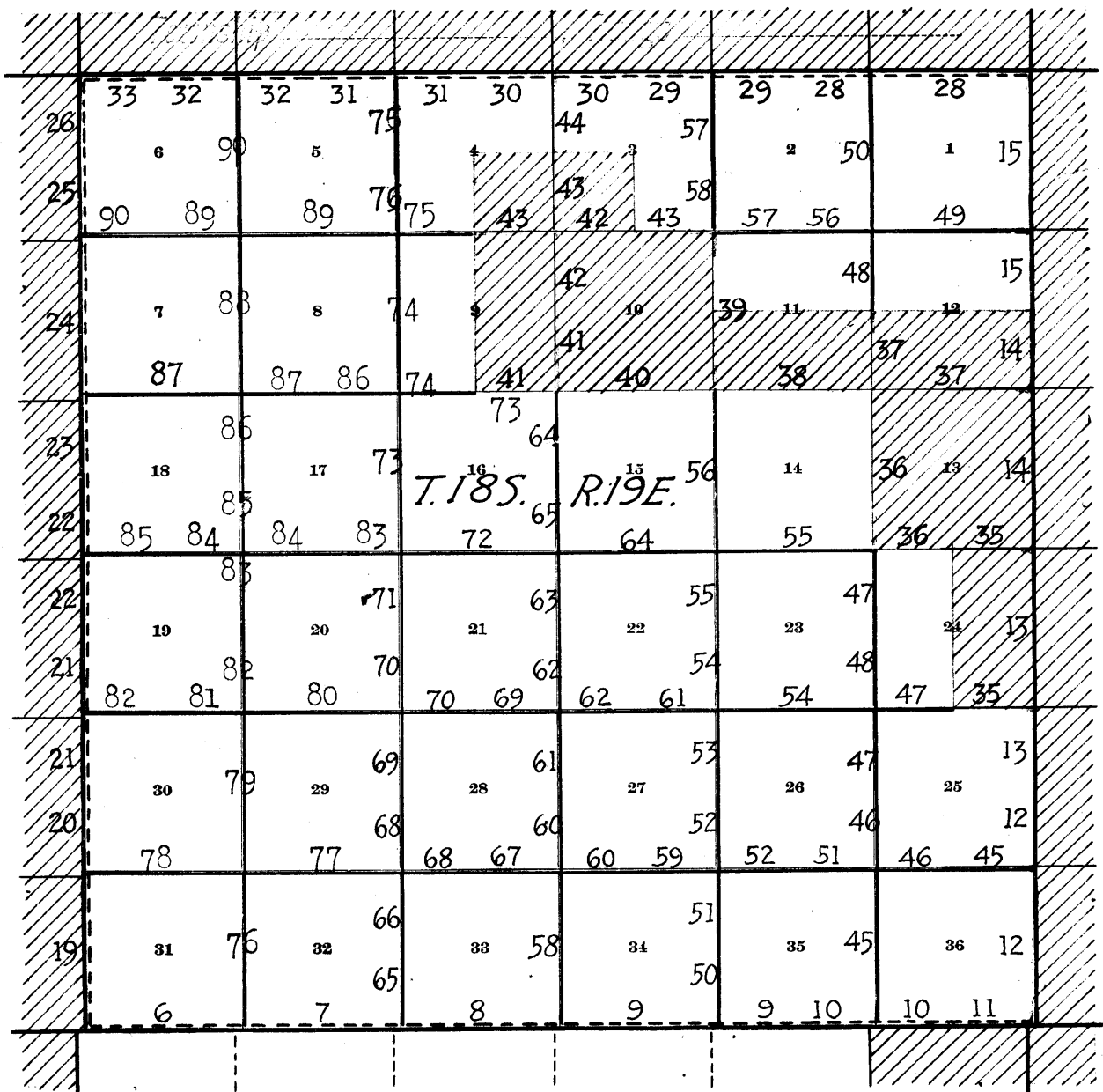
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Group "B"

Group 119 - Arizona.

BOOK 3649

INDEX DIAGRAM.



———— Lines surveyed under this group.

----- Lines resurveyed under this group.

———— Lines retraced under this group.

———— Accepted surveys.

----- Unsurveyed.

//// Areas surveyed as per accepted plats on file.

BOOK 3649

Book "B"

Group 119 - - - - - Arizona.

Township 18 South, Range 19 East.

DATE DIAGRAM 1922

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

————— Indicates surveys executed by Sidney E. Blout, U.S.C.E. on dates shown thereon.

- - - - - Indicates resurveys executed by Sidney E. Blout, U.S.C.E. on dates shown thereon.

..... Indicates retracements executed by Sidney E. Blout, U.S.C.E. on dates shown thereon.

BOOK 3649

The retracements, resurveys, and surveys hereinafter described, commenced September 30, 1922, and executed on dates shown on diagram on page 1 hereof, by Sidney E Blout, U.S. Cadastral Engineer, using a Buff "Rocky Mountain Favorite" solar transit No. 9984, with U-shaped standards, $4\frac{1}{2}$ -inch horizontal circle, 4-inch vertical circle, and improved Smith solar attachment. All azimuth determinations are accomplished with the solar attachment, except the special observations on Polaris and the sun for meridian upon which to test the solar apparatus, as stated in the field notes.

The instrument was examined, tested on the meridian at the Federal Building at Phoenix Arizona, found correct and was approved by the Assistant Supervisor of Surveys for Arizona and California, September 15, 1922, conditional upon satisfactory field tests.

TEST OF INSTRUMENT

September 29, 1922; examine the adjustments of the transit, and correct the level and collimation errors, then to test the solar apparatus, by comparing its indications, resulting from solar observations, made during a.m., and p.m. hours with a meridian established by observations on Polaris; proceed as follows;

In camp near the cor. of secs. 20, 21, 28, and 29, T17S., R19E. Latitude $31^{\circ}55'57''N.$ and Longitude $110^{\circ}25'15''W.$; Set off $31^{\circ}56'N.$ on the lat. arc, $2^{\circ}22'S.$ on the decl. arc and at $4^{h}00^{m}$ p.m. app. time Sept. 29, 1922, determine a meridian with the solar and mark a point thereof by a tack in peg driven firmly in the ground 5-chains N. of instrument.

At the same station, At $7^{h}05.2^{m}$ p.m. l.m.t., by my watch which is set by Western Union Telegraph clock, to read correct local mean time; observe Polaris at eastern 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 driven in a stake set firmly in the ground 5-chains N. of instrument.

Azimuth of Polaris at eastern elongation, $1^{\circ}18\frac{1}{2}'$.

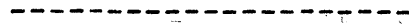
September 30, 1922; lay off the azimuth of Polaris $1^{\circ}18\frac{1}{2}'$ to the west and mark the meridian thus determined by a tack driven in the peg already set 5-chains N. on which the meridian falls $00\frac{1}{2}'$ E. of the mark determined by the solar.

Sept. 30; At $9^{h}00^{m}$ a.m. app. time; set off $31^{\circ}56'N.$ on the lat. arc, $2^{\circ}39'S.$ on the decl. arc and determine a meridian with the solar and mark a point thereof by a tack driven in the peg already set 5-chains N.; This mark falls $0\frac{1}{2}'$ E. of the meridian established by the Polaris observations.

The solar apparatus by p.m. and a.m. observations, defines positions for meridians, respectively about $00\frac{1}{2}'W.$ and $00\frac{1}{2}'E.$ of the meridian established by the Polaris observations, therefore, conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8h. 00m. a.m. is N.13°30'W.

All measurements are made with a Lallie 5-chain steel tape, compared with a Chesterman standard steel tape and found correct. The measurements are made on the slope, the vertical angles determined and the slope distances properly reduced to true horizontal distances.



BOOK 3649

4. Resurvey of South bdy. of Township 18 South, Range 19 East.

Chains.

This township line was surveyed in 1904 by J.A. Rockfellow, U.S.D.S. who established all the sec. and $\frac{1}{4}$ sec. cors. thereon with common reference to areas on both sides of the line. No retracement or resurvey of any part of the line is of record; however, W.H. Elliott, U.S.S. in 1913, in connection with surveys in T.19 S., R.19 E., changed the original Tp. cors. and the original cor. of secs. 1, 2, 35 and 36 to refer to areas in T.18 S. only, when he established closing cors. for areas in T.19 S. tied to said original cors.

The following notes describe a resurvey of the entire S. bdy. of T.18 S., R.19 E., reconstructing all defective cors., and making such changes in the accessories of all the cors. not previously altered, as will be required to indicate their reference to areas in T.18 S. only.

Retracement for Resurvey.

4.28 From the cor. of Ts. 18 S., Rs. 19 and 20 E., hereinafter described, S. $89^{\circ}54'W.$, on a random line, on S. bdy. of sec. 36 (E. $\frac{1}{2}$). The closing cor. of Ts. 19 S., Rs. 19 and 20 E., hereinafter described.

39.91 Continue line and measurement. Fall 1 lk. N. of the original $\frac{1}{4}$ sec. cor. of secs. 1 and 36, hereinafter described. True course and dist. of E. $\frac{1}{2}$ of S. bdy. of sec. 36 are therefore, N. $89^{\circ}53'E.$, 39.91 chs.

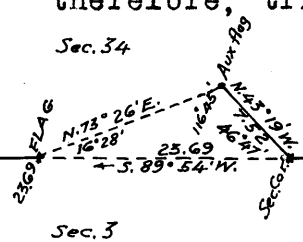
39.91 Thence, S. $89^{\circ}54'W.$, on random line, on S. bdy. of sec. 36 (W. $\frac{1}{2}$). Fall 1 lk. N. of the cor. of secs. 35 and 36, hereinafter described. True course and dist. of W. $\frac{1}{2}$ of S. bdy. of sec. 36 are therefore N. $89^{\circ}53'E.$, 39.91 chs.

4.80 S. $89^{\circ}54'W.$, on random line, on S. bdy. of sec. 35 (E. $\frac{1}{2}$). The closing cor. of secs. 1 and 2, T. 19 S., R. 19 E., hereinafter described.

39.99 Continue line and measurement. Fall 1 lk. N. of the original $\frac{1}{4}$ sec. cor. of secs. 2 and 35, hereinafter described. True course and dist. of E. $\frac{1}{2}$ of S. bdy. of sec. 35, are therefore N. $89^{\circ}53'E.$, 39.99 chs.

39.88 Thence, S. $89^{\circ}54'W.$, on random line, on S. bdy. of sec. 35 (W. $\frac{1}{2}$). Fall 7 lks. S. of the original cor. of secs. 2, 3, 34 and 35, hereinafter described. True course and dist. of W. $\frac{1}{2}$ of S. bdy. of sec. 35 are therefore East, 39.88 chs.

S. $89^{\circ}54'W.$, on random line on S. bdy. of sec. 34 (E. $\frac{1}{2}$). Chaining is impracticable owing to precipitous ascent; therefore, triangulate as follows: vertical angle to flag on random line = $+23^{\circ}$; auxiliary flag bears N. $43^{\circ}19'W.$, 7.52 chs. dist.; from flag on random line auxiliary flag bears N. $73^{\circ}26'E.$; all bearings checked by direct readings of the solar, and all angles checked by deflection.



Dist. by triangulation, S. $89^{\circ}54'W.$ = 23.69 chs.

Resurvey of South bdy. of Township 18 South, Range 10 East, 5

Chains. Retracement for Resurvey. Continued.

23.69 Triangulation point.
Continue line and measurement by chaining.

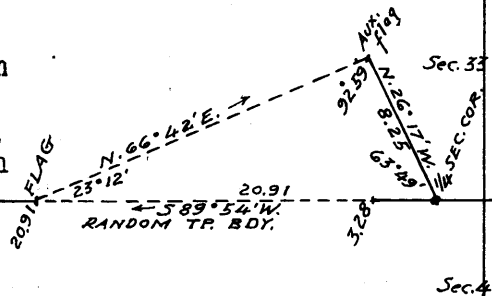
40.15 Fall 1 lk.S. of the original $\frac{1}{4}$ sec.cor.of secs.3 and 34, hereinafter described.
True course and dist. of $\frac{1}{2}$ of S. bdy.of sec.34 are therefore, N. $89^{\circ}55'E.$, 40.15 chs.

39.84 Thence, S. $89^{\circ}54'W.$, on random line, on S. bdy.of sec.34 (W. $\frac{1}{2}$).
Fall 2 lks.N. of the original cor.of secs.3,4,33 and 34, hereinafter described.
True course and dist. of W. $\frac{1}{2}$ of S. bdy. of sec.34, are therefore N. $89^{\circ}52'E.$, 39.84 chs.

39.88 S. $89^{\circ}54'W.$ on a random line, on S. bdy. of sec.33 (E. $\frac{1}{2}$).
Intersect the original $\frac{1}{4}$ sec.cor.of secs.4 and 33, hereinafter described.
True course and dist. of $\frac{1}{2}$ of S. bdy.of sec.33 are therefore, N. $89^{\circ}54'E.$, 39.88 chs.

3.28 Thence, S. $89^{\circ}54'W.$, on random line, on S. bdy.of sec.33 (W. $\frac{1}{2}$).
Wash, in bottom of canyon, course SE. Beyond this point, chaining is impracticable owing to precipitous ascent; therefore triangulate from the original $\frac{1}{4}$ sec.cor.of secs.4 and 33, as follows:

Vertical angle to flag on random line = $+14^{\circ}$;
Auxiliary flag bears N. $26^{\circ}17'W.$, 8.25 chs. dist.; from flag on random line, auxiliary flag bears N. $66^{\circ}42'E.$
All bearings checked by direct readings of the solar, and all angles checked by deflection.



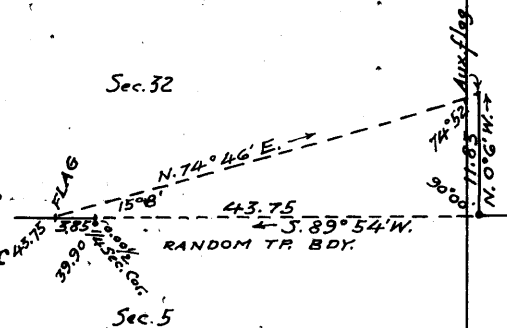
Distance by triangulation, S. $89^{\circ}54'W.$ from $\frac{1}{4}$ sec.cor. = 20.91 chs.

20.91 Triangulation point. Continue line and measurement by chaining.

39.94 Fall 5 lks.N. of the original cor.of secs.4,5,32 and 33, hereinafter described.
True course and dist. of W. $\frac{1}{2}$ of S. bdy. of sec.33 are therefore, N. $89^{\circ}50'E.$, 39.94 chs.

S. $89^{\circ}54'W.$ on random line on S. bdy. of sec.32 (E. $\frac{1}{2}$).
Chaining is impracticable, owing to precipitous ascent; therefore, triangulate as follows:

Vertical angle to flag on random line at top of French Joe Peak = $+18^{\circ}$; auxiliary flag brs. N. $0^{\circ}6'W.$, 11.83 chs. dist. From flag on random line, the auxiliary flag brs. N. $74^{\circ}46'E.$; all bearings checked by direct readings of the solar and all angles checked by deflection.



Distance by triangulation, S. $89^{\circ}54'W.$ = 43.75 chs.
Distance by return measurement, N. $89^{\circ}54'W.$ E. to $\frac{1}{4}$ sec.cor. = 3.85 chs.
39.90 chs.

39.90 Fall $\frac{1}{2}$ lk.N. of the original $\frac{1}{4}$ sec.cor.of secs.5 and 32, hereinafter described.

BOOK 3649

6 Resurvey of South bdy. of Township 18 South Range 19 East.

Chains.	Retracement for Resurvey, continued.
	True course and dist. of E. $\frac{1}{2}$ of S. bdy. of sec. 32 are therefore N. 89° 54' E., 39.90 chs.
	Thence;
39.90	S. 89° 54' W., on random line, on S. bdy. of sec. 32 (W. $\frac{1}{2}$). Fall 1 lk. S. of the original cor. of secs. 5, 6, 31 and 32, hereinafter described.
	True course and dist. of W. $\frac{1}{2}$ of S. bdy. of sec. 32 are therefore N. 89° 55' E., 39.90 chs.

	S. 89° 54' W., on random line, on S. bdy. of sec. 31, (E. $\frac{1}{2}$).
39.85	Fall 2 lks. N. of the original $\frac{1}{4}$ sec. cor. of secs. 6 and 31, hereinafter described.
	True course and dist. of E. $\frac{1}{2}$ of S. bdy. of sec. 31 are therefore, N. 89° 52' E., 39.85 chs.
	Thence,
39.42	S. 89° 54' W., on random line on S. bdy. of sec. 31 (W. $\frac{1}{2}$). Fall 2 lks. S. of the cor. of Ts. 18 S., Rs. 18 and 19 E., hereinafter described.
	True course and dist. of W. $\frac{1}{2}$ of S. bdy. of sec. 31 are therefore, N. 89° 56' E., 39.42 chs.

	<u>RESURVEY.</u>
	The cor. of Ts. 18 S., Rs. 18 and 19 E., (originally cor. of 4 Ts.) is a limestone, 12x10x4 ins. above ground, firmly set, marked with 6 grooves on each of N., E. and W. faces, and witnessed by a mound of stone, N. of cor., and 2 bearing trees as follows:
	A juniper, 18 ins. in diam., N. 54° E., 92 lks. dist., marked T18S R19E S31 BT.
	A cedar, 12 ins. in diam., N. 76° W., 116 lks. dist., marked T18S R18E S36 BT.
	Thence,
	N. 89° 56' E., on a true line, on S. bdy. of sec. 31 (W. $\frac{1}{2}$). Over mountainous land, thru. scattering timber and dense undergrowth.
2.83	Descend 40 ft., over NE. slope.
	Wash, 10 lks. wide, course N. 10° W.
10.13	Ascend 140 ft., over SW. slope, to Spur, slopes NW.
	Ascend 15 ft., over N. slope, to
14.92	Head of wash, course NW.
	Ascend 272 ft., over SW. slope.
28.91	Spur, slopes SW.
	Descend 14 ft., over SE. slope.
31.30	Head of wash, course SW.
	Ascend 138 ft., over NW. slope.
35.67	Point of spur, slopes SW.
	Ascend 45 ft., over S. slope, to
39.42	Intersect the original $\frac{1}{4}$ sec. cor. of secs. 6 and 31, which is a limestone boulder, 4x6x4 ft. above ground, marked with a cross (x) at exact cor. point, and $\frac{1}{4}$ S N. of cross, and witnessed by remains of old mound of stone, N. of cor. Reconstruct the mound of stone, 2 ft. base, $\frac{1}{2}$ ft. high, N. of cor. No bearing trees available. This monument now marks the $\frac{1}{4}$ sec. cor. of sec. 31 only.
	Thence,
	N. 89° 52' E., on a true line, on S. bdy. of sec. 31 (E. $\frac{1}{2}$). Over mountainous land, thru. scattering timber and dense undergrowth.
2.58	Descend 77 ft., over SE. slope.
	Wash, 20 lks. wide, course SW.
	Ascend 398 ft., over NW. slope.
13.26	Spur, slopes SW.
	Descend 136 ft., over SE. slope.

Resurvey of South bdy. of Township 18 South, Range 19 East. 7

Chains.	
30.16	Wash, 10 lks. wide, course SW.
33.89	Ascend 130 ft., over NW. slope, to Spur. slopes SW.
39.85	Ascend 53 ft., over S. slope, to
	Intersect the original cor. of secs. 5, 6, 31 and 32, which is a limestone 10x8x8 ins. above ground, firmly set, marked with 5 notches on E. edge, and 1 notch on W. edge, and witnessed by a mound of stone W. of cor. Destroy the old mound of stone, and raise a new mound of stone 2 ft. base, 1½ ft. high, N. of cor. No bearing trees available. This monument now marks the cor. of secs. 31 and 32 only.
	Land, mountainous. Soil, stony, 3rd and 4th rate. Timber, cedar, juniper and oak. Undergrowth, scrub oak and mountain mahogany. Good grass.
13.67	N. 89° 55' E., on a true line, on S. bdy. of sec. 32 (W. ½).
19.58	Over mountainous land, thru. scattering timber and dense undergrowth.
23.95	Ascend 118 ft., over S. slope, to Wash, 20 lks. wide, course SW.
36.05	Ascend 195 ft., over W. slope, to Point of spur, slopes NW.
39.90	Ascend 160 ft., over N. slope, to Head of wash, course NW.
39.90	Ascend 555 ft., over W. slope, to Top of French Joe Peak in the main ridge of the Whetstone Mountains, triangulation point, hereinbefore described.
	Thence over NE. slope, broken by limestone cliffs.
	Continue chaining.
	Descend 150 ft., to
	Intersect the original ¼ sec. cor. of secs. 5 and 32, which is a limestone 9x6x5 ins. above ground, firmly set, marked ¼ S on N. face, and witnessed by two bearing trees as follows:
	An oak, 16 ins. in diam., N. 13¼° E., 7 lks. dist., marked ¼ S 32 BT.
	A juniper, 30 ins. in diam., S. 51° W., 33 lks. dist., marked ¼ S 5 BT.
	Alter this cor. monument to refer to the quarters of sec. 32 only by changing the marking on the SW. bearing tree to read ¼ S BT. No other bearing trees N. of line is available.
	Thence,
	N. 89° 54' E., on a true line, on S. bdy. of secs. 32 (E. ½)
	Measurement by triangulation as hereinbefore described.
	Over mountainous land, thru. scattering timber and dense undergrowth.
	Descend 795 ft., over NE. slope, to
39.90	Intersect the original cor. of secs. 4, 5, 32 and 33, which is a limestone, 15x12x5 ins. above ground, firmly set, marked with 4 notches on E. edge and 2 notches on W. edge, and witnessed by a mound of stone, W. of cor. and two bearing trees as follows:
	An oak, 6 ins. in diam., N. 42° W., 18 lks. dist., marked T18N R19E S32 BT.
	An oak, 6 ins. in diam., S. 55¼° W., 30 lks. dist., marked T19S R19E S5 BT.
	Alter this cor. monument to refer to secs. 32 and 33 only by changing the marking on the SW. bearing tree to read T19S R19E BT., destroying the old mound of stone and raising a new mound of stone 2 ft. base, 1½ ft. high, N. of cor. No other bearing trees available.
	Land, mountainous.
	Soil, stony, 4th rate.

BOOK 3649

8 Resurvey of South bdy. of Township 18 South, Range 19 East.

Chains.

Timber, cedar, juniper and oak.
Undergrowth, scrub oak and mountain mahogany.
Light growth of grass.

-
- N. 89° 50' E., on true line, on S. bdy. of sec. 33 (W. $\frac{1}{2}$).
Over mountainous land, thru. scattering timber and dense undergrowth.
- 4.57 Ascend 22 ft., over N. slope, to
Point of spur, slopes NE.
Descend 245 ft., over NE. slope.
- 17.80 Head of wash, course NE.
Ascend 10 ft., over NW. slope.
- 18.39 Point of spur, slopes NE.
Descend 504 ft., over NE. slope.
- 19.03 Triangulation point. Discontinue chaining. Measurement
to $\frac{1}{4}$ sec. cor. by triangulation as hereinbefore de-
scribed.
- 36.66 Wash, 40 lks. wide, in bottom of canyon, course SE.
Ascend 150 ft., over SW. slope, to
- 39.94 Spur, slopes SE. Intersect original $\frac{1}{4}$ sec. cor. of secs.
4 and 33, which is a limestone rock in place 18x12x12
ins. above ground, marked with a cross (X) at exact
cor. pt., and $\frac{1}{4}$ S N. of cross, and witnessed by remains of
old mound of stone, N. of cor. Reconstruct the mound of
stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. No bearing
trees available. This cor. monument now refers to the
quarters of sec. 33 only.
- Thence,
N. 89° 54' E., on true line, on S. bdy. of sec. 33 (E $\frac{1}{2}$).
Over mountainous land, thru. scattering timber and dense
undergrowth.
- 7.03 Descend 226 ft., over NE. slope.
Head of wash, course SE.
Ascend 10 ft., over SW. slope.
- 8.23 Point of spur, slopes SE.
Descend 100 ft., over SE. slope.
- 18.08 Wash, 20 lks. wide, course SE.
Ascend 18 ft., over SW. slope.
- 23.31 Point of spur, slopes SE.
Descend 16 ft., over E. slope.
- 25.63 Wash, 10 lks. wide, course SE.
Ascend 53 ft., over SW. slope.
- 28.10 Spur, slopes SE.
Descend 172 ft., over NE. slope.
- 37.25 Draw, course SE.
Ascend 40 ft., over SW. slope, to
- 39.88 Intersect the original cor. of secs. 3, 4, 33 and 34, which
is a limestone 12x10x8 ins. above ground, firmly set,
marked with 3 notches on each of E and W. edges, and
witnessed by a mound of stone, W. of cor., and two bear-
ing trees as follows:
A juniper, 12 ins. in diam., S. 57 $\frac{1}{4}$ ° W., 138 lks.
dist., marked T19S R19E S4 BT.
An ironwood, 10 ins. in diam., S. 52 $\frac{3}{4}$ ° E., 53 lks.
dist., marked T19S R19E S3 BT.
- Alter this cor. to refer to secs. 33 and 34 by changing
the marking on each of the bearing trees to read
T19S R19E BT., destroying the old mound of stone, and
raising a new mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
N. of cor. No other bearing trees available.
- Land, mountainous.
Soil, stony, 3rd and 4th rate.
Timber, cedar, juniper and oak.
Undergrowth, scrub oak and mountain mahogany.
Light growth bunch grass.
-

Resurvey of South bdy. of Township 18 South, Range 19 East. 9

Chains.	
	N.89°50'E., on a true line, on S. bdy. of sec.34 (W. $\frac{1}{2}$). Over mountainous land, thru. scattering timber and dense undergrowth.
2.33	Ascend 15 ft., over SW. slope. Point of spur, slopes SE.
8.07	Descend 85 ft., over E. slope. Wash, 10 lks. wide, course SE.
11.82	Ascend 34 ft., over SW. slope. Point of spur, slopes SE.
14.43	Descend 65 ft., over E. slope. Wash, 20 lks. wide, course S.15°E. in bottom of canyon.
33.71	Ascend 365 ft., over SW. slope. Point of spur, slopes SE.
35.21	Descend 18 ft., over E. slope. Wash, 10 lks. wide, course SE.
39.84	Ascend 107 ft., over SW. slope, to Intersect the original $\frac{1}{4}$ sec. cor. of secs. 3 and 34, which is a granite stone in place 30x20x10 ins. above ground, marked with a cross (x) at exact cor. pt., and $\frac{1}{4}$ S N. of cross, and witnessed by a mound of stone, N. of cor., and two bearing trees as follows: A juniper, 16 ins. in diam., N.13 $\frac{1}{2}$ °E., 71 lks. dist., marked $\frac{1}{4}$ S 34 BT. An oak, 14 ins. in diam., S.55 $\frac{1}{2}$ °W., 60 lks. dist., marked $\frac{1}{4}$ S 3 BT. Alter this cor. monument to refer to the quarters of sec. 34 only by changing the markings on the SW. bearing tree to read $\frac{1}{4}$ S BT. No other bearing trees are available.
	Thence, N.89°55'E., on a true line, on S. bdy. of sec.34 (E. $\frac{1}{2}$). Over mountainous land, thru. scattering timber and dense undergrowth.
16.46	High rocky ridge, brs. NE. and SW. Discontinue chaining. Measurement to sec. cor. by triangulation hereinbefore described.
40.15	Descend 664 ft., over precipitous E. slope, to Intersect the original cor. of secs. 2, 3, 34 and 35, which is a quartzite stone 12x10x4 ins. above ground, firmly set, marked with 2 notches on E. edge and 4 notches on W. edge, and witnessed by a mound of stone, W. of cor., and two bearing trees as follows: A white oak, 12 ins. in diam., S.28°E., 66 lks. dist., marked T19S R19E S2 BT. A black oak, 10 ins. in diam., S.77 $\frac{1}{2}$ °W., 68 lks. dist., marked T19S R19E S3 BT. Alter this cor. monument to refer to secs. 34 and 35 only by changing the marking on each of the bearing trees to read T19S R19E BT. destroying the old mound of stone, and raising a new mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. No other bearing trees available. Land, mountainous. Soil stony, 3rd and 4th rate. Timber, juniper, cedar and oak. Undergrowth, scrub oak and mountain mahogany. Good grass.

	East, on a true line, on S. bdy. of sec.35 (W. $\frac{1}{2}$). Over mountainous land, thru. scattering timber and undergrowth.
11.66	Descend 245 ft., over E. slope. Wash, 20 lks. wide, course SE.
16.50	Ascend 70 ft., over SW. slope. Spur, slopes SE.
39.88	Descend 460 ft., over NE. and E. slopes, to Intersect the original $\frac{1}{4}$ sec. cor. of secs. 2 and 35, which is a granite stone 5x8x8 ins. above ground, firmly set

BOOK 3649

10 Resurvey of South bdy. of Township 18 South, Range 19 East.

Chains.

- marked $\frac{1}{4}$ S on N. face, and witnessed by a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. No bearing trees. This cor. monument now marks the $\frac{1}{4}$ sec. cor. of sec. 35 only, and no alteration in marking or of the accessory is required.
- Thence,
N. $89^{\circ}53'$ E., on a true line on S. bdy. of sec. 35 (E. $\frac{1}{2}$).
Over mountainous land, thru. scattering timber and undergrowth.
- 3.96 Descend 46 ft., over E. slope, to
Leave mountainous and enter rolling land.
- 8.41 Descend 50 ft., over E. slope, to
Wash, 10 lks. wide, course SE.
- 35.19 Descend 154 ft., over SE. slope, to
Intersect the closing cor. of secs. 1 and 2 of T. 19 S., R. 19 E., which is an iron post, 2 ins. in diam., projecting 14 ins. above ground, firmly set, properly marked on brass cap, and witnessed by a mound of stone, S. of cor. No bearing trees. Descend 10 ft., over SE. slope.
- 37.59 Wash, 20 lks. wide, course NE.
Descend 10 ft., over NW. slope, to sec. cor.
- 39.75 Wire fence, brs. N. and S. Fence cor. brs. S. about 20 lks. dist., from which fence extends N. and E.
- 39.99 Intersect the cor. of secs. 35 and 36, originally a cor. of four secs., but changed to its present designation in 1913, when the closing cor. of secs. 1 and 2 was established. This cor. monument is a granite rock in place exposed $15 \times 12 \times 8$ ins. above ground, marked with a cross (x) at exact cor. point, 1 notch E. of cross, and 5 notches W. of cross, and witnessed by a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor., and two bearing trees as follows:
A mesquite, 7 ins. in diam., N. $53\frac{1}{2}^{\circ}$ W., 49 lks. dist., marked T18S R19E S35 BT.
A mesquite, 6 ins. in diam., S. $78\frac{1}{4}^{\circ}$ W., 23 lks. dist., marked T19S R19E BT.
No other bearing trees are available.
Land, mountainous and rolling.
Soil, stony, 3rd and 4th rate.
Timber, oak and mesquite.
Undergrowth, scrub mesquite.
Good grass.
-
- N. $89^{\circ}53'$ E., on a true line, on S. bdy. of sec. 36 (W. $\frac{1}{2}$).
Over rolling land, thru. scattering timber and undergrowth, parallel to wire fence, about 20 lks. S. of line.
- 3.26 Ascend 10 ft., over NW. slope.
Descend 25 ft., over NE. slope.
- 9.94 Wash, 30 lks. wide, course NE.
Descend gradually over NE. slope, to
- 17.45 Wash, 20 lks. wide, course NE.
Ascend 15 ft., over NW. slope.
- 22.75 Descend 29 ft., over NE. slope.
- 28.83 Wash, 30 lks. wide, course SE.
Ascend 15 ft., over S. slope, to
- 30.35 Leave rolling, and enter nearly level land.
Descend slightly over SE. slope to $\frac{1}{4}$ sec. cor.
- 34.11 Road from St. David, Arizona, to ranch in sec. 1, T. 19 S., R. 19 E., brs. NW. and SE.
- 36.91 Wash, 10 lks. wide, course SE.
- 39.91 Intersect the original $\frac{1}{4}$ sec. cor. of secs. 1 and 36, which is a granite stone, $12 \times 8 \times 8$ ins. above ground, firmly set, marked $\frac{1}{4}$ S on N. face, and witnessed by a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. This cor. monument now refers to the quarters of sec. 36 only, and no change in the marking or accessory is required. No bearing trees are available.

Resurvey of South bdy. of Township 18 South Range 19 East. 11

Chains.

- Thence,
 N.89°53'E., on a true line, on S. bdy. of sec. 36 (E. $\frac{1}{2}$).
 Over nearly level land, sloping slightly to the SE., thru.
 scattering timber and undergrowth, parallel to wire
 fence about 15 lks. S. of line.
- 35.61 Wire fence, brs. N. and S. Fence cor. brs. S. 15 lks. dist.,
 from which fences extend N. 88° E., W. and N.
- 35.63 Intersect the closing cor. of Ts. 19 S., Rs. 19 and 20 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 two bearing trees, as follows:
 A mesquite, 6 ins. in diam., S. 8 $\frac{1}{4}$ ° E., 81 lks.
 dist., marked T19S R20E S6 CC BT.
 A mesquite, 7 ins. in diam., S. 21° W., 120 lks.
 dist., marked T19S R19E S1 CC BT.
- 39.91 Wire fence brs. N. 88° E. and S. 88° W. Intersect the cor.
 of Ts. 18 S., Rs. 19 and 20 E. (originally a cor. of 4
 Ts.) which is a granite stone 8x8x6 ins. above ground,
 firmly set, marked with 6 notches on each of E., W. and
 N. faces. No trace of any accessories can be found.
 No bearing trees being available, raise a mound of stone
 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
 Land, rolling and nearly level.
 Soil, stony, 3rd rate.
 Timber, mesquite.
 Undergrowth, scrub mesquite, catclaw, greasewood & ocotillo.
 Good grass.

BOOK 3649

12 Retracement of East bdy. of Township 18 South, Range 19 East.

Chains.

This Tp. bdy. was surveyed in 1901 by Philip Contzen, U.S. D.S., establishing all the corners thereon, with a common reference to areas both sides of the line. The north two miles were retraced in 1904 by John A. Rockefeller, U.S.D.S. No other retracement or resurvey of any part of the line is of record.

From the cor. of Ts. 18 S., Rs. 19 and 20 E., hereinbefore described,

North, on random line, bet. secs. 31 and 36 (S. $\frac{1}{2}$).
Over nearly level land sloping slightly to the SE. thru. scattering undergrowth.

20.23 Wash, 10 lks. wide, course SE.

28.22 Wire fence brs. N. 5° E. and S. 5° W.

40.02 Fall 6 lks. W. of the original $\frac{1}{4}$ sec. cor. of secs. 31 and 36, which is a granite stone 10x8x4 ins. above ground, firmly set, marked $\frac{1}{4}$ S 36 on W. face, and 31 on E. face, and witnessed by a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. No bearing trees.

True course and dist. of S. $\frac{1}{2}$ of line bet. secs. 31 and 36 are therefore, N. 0° 5' E., 40.02 chs.

Thence,

North, on random line, bet. secs. 31 and 36 (N. $\frac{1}{2}$).

Over nearly level land sloping slightly to the SE., thru. scattering undergrowth.

20.36 Wash, 10 lks. wide, course SE.

28.06 Wash, 10 lks. wide, course SE.

39.71 Wash, 20 lks. wide, course SE.

39.76 Wire fence, brs. E. and W. Fence cor. brs. E. about 4 chs. dist., from which fences extend W. and S. 5° W.

40.04 Fall 6 lks. E. of the original cor. of secs. 25, 30, 31 and 36, which is a granite stone 8x6x6 ins. above ground, firmly set, marked with 5 notches on N. edge and 1 notch on S. edge, and witnessed by a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

No bearing trees.

True course and dist. of N. $\frac{1}{2}$ of line bet. secs. 31 and 36, are therefore, N. 0° 5' W., 40.04 chs.

Land, nearly level.

Soil, stony, 2nd and 3rd rate.

No timber.

Undergrowth, greasewood, scrub mesquite and ocotillo.

Good grass.

North, on random line, bet. secs. 25 and 30 (S. $\frac{1}{2}$).

Over nearly level land, sloping slightly to the SE., thru. scattering undergrowth.

15.79 Old road, brs. E. and W.

22.89 Leave nearly level, and enter rolling land.

Descend 14 ft., over NW. slope, to

23.38 Enter wash, 15 lks. wide, course N. from SW.

Descend 14 ft., in wash, to

27.94 Leave wash, course NE. from S.

Ascend 42 ft., over SE. slope, to

40.25 Fall 5 lks. E. of the original $\frac{1}{4}$ sec. cor. of secs. 25 and 30, which is a granite stone 15x10x8 ins. above ground, firmly set, marked $\frac{1}{4}$ S 25 on W. face and 30 on E. face, and witnessed by a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor., and one bearing tree as follows:

A mesquite, 22 ins. in diam., S. 81 $\frac{1}{2}$ ° E., 259 lks. dist., marked $\frac{1}{4}$ S 30 BT.

True course and dist. of S. $\frac{1}{2}$ of line, bet. secs. 25 and 30, are therefore, N. 0° 4' W., 40.25 chs.

Thence,

North, on random line, bet. secs. 25 and 30 (N. $\frac{1}{2}$).

Over rolling land, thru. scattering undergrowth.

Retracement of East hdy. of Township 18 South Range 19 East. 13

Chains.

- 5.84 Descend 35 ft., over NE. slope, to Wash, 15 lks. wide, course SE.
- 15.23 Ascend gradually over SE. slope, to Wash, 10 lks. wide, course SE. Leave rolling and enter mountainous land.
- 24.90 Ascend 165 ft., over SW. slope. Spur, slopes SE.
- 34.02 Descend 163 ft., over NE. slope. Wash, 20 lks. wide, course S. 80° E. Leave mountainous and enter rolling land.
- 39.86 Ascend 56 ft., over S. slope, to Fall 8 lks. E. of the original cor. of secs. 19, 24, 25 and 30, which is a granite stone 12x8x5 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 2 ft. base, 1½ ft. high, W. of cor.
- No bearing trees.
True course and dist. of N. ½ of line, bet. secs. 25 and 30 are therefore N. 0° 07' W., 39.86 chs.
Land, nearly level, rolling and mountainous.
Soil, stony, 3rd and 4th rate.
No timber.
Undergrowth, greasewood, scrub mesquite and ocotillo.
Good grass.
-
- 10.75 North, on random line, bet. secs. 19 and 24 (S. ½). Over rolling land, thru. scattering undergrowth. Ascend 92 ft., over S. slope. Spur, slopes E.
- 17.00 Descend 47 ft., over N. slope. Wash, 35 lks. wide, course N. 80° E.
- 21.30 Descend gradually over E. slope to ¼ sec. cor. Old road, brs. NW. and SE.
- 27.75 Wash, 10 lks. wide, course E.
- 36.10 Wash, 10 lks. wide, course E.
- 40.01 Intersect the original ¼ sec. cor. of secs. 19 and 24, which is a granite stone 8x6x4 ins. above ground, firmly set, marked ¼ S 24 on W face and 19 on E. face, and witnessed by a mound of stone 2 ft. base, 1½ ft. high, W. of cor.
- No bearing trees.
True course and dist. of S. ½ of line, bet. secs. 19 and 24 are therefore North, 40.01 chs.
- Thence,
North, on random line, bet. secs. 19 and 24 (N. ½). Over rolling land, thru. scattering undergrowth. Descend gradually over E. slope to sec. cor.
- 11.75 Wash, 20 lks. wide, course N. 80° E.
- 31.80 Wash, 30 lks. wide, course S. 80° E.
- 38.85 Wash, 10 lks. wide, course N. 70° E.
- 39.99 Fall ½ lk. W. of the original cor. of secs. 13, 18, 19 and 24, which is a sandstone 6x6x4 ins. above ground, firmly set, marked with 3 notches on each of N. and S. edges, and witnessed by three pits, one each NE., SW., and NW. of cor., a mound of earth W. of cor., and one bearing tree as follows:
A mesquite, 14 ins. in diam., S. 41½° E., 81 lks. dist., marked T18S R20E S19 BT.
- True course and dist. of N. ½ of line, bet. secs. 19 and 24 are therefore North, 39.99 chs.
- Land, rolling.
Soil, gravelly and stony, 2nd and 3rd rate.
Timber, mesquite.
Undergrowth, greasewood, ocotillo and scrub mesquite.
Good grass.
-

BOOK 3649

14 Retracement of East bdy. of Township 18 South, Range 19 East.

Chains.

North, on a random line, bet. secs. 13 and 18 ($S. \frac{1}{2}$).
 Over rolling land, thru scattering timber and undergrowth.
 Ascend gradually over SE. slope to $\frac{1}{4}$ sec. cor.

16.40 Wash, 20 lks. wide, 2 ft. deep, course SE.
 22.00 Wash, 20 lks. wide, 2 ft. deep, course $S. 70^{\circ} E.$
 32.60 Wash, 19 lks. wide, 6 ft. deep, course SE.
 35.20 Wash, 10 lks. wide, 4 ft. deep, course SE.
 40.00 Head of wash, course SE. Intersect the original $\frac{1}{4}$ sec. cor. of secs. 13 and 18, which is a granite stone 10x10x8 ins. above ground, firmly set, marked $\frac{1}{4} S 13$ on W. face, and witnessed by two bearing trees, as follows:

An oak, 9 ins. in diam., $N. 79^{\circ} E.$, 97 lks. dist., marked $\frac{1}{4} S 18$ BT.
 An oak, 12 ins. in diam., $N. 81^{\circ} W.$, 53 lks. dist., marked $\frac{1}{4} S 13$ BT.

True course and dist. of $S. \frac{1}{2}$ of line, bet. secs. 13 and 18 are therefore, North, 40.00 chs.

Thence,
 North, on random line, bet. secs. 13 and 18, ($N. \frac{1}{2}$).
 Over rolling land, thru scattering timber and undergrowth.
 Ascend gradually over SE. slope.

3.20 Wash, 10 lks. wide, course $S. 70^{\circ} E.$
 10.88 Wash, 19 lks. wide, course $S. 80^{\circ} E.$
 22.20 Wash, 39 lks. wide, course $S. 70^{\circ} E.$
 Ascend slightly over SE. slope.

26.90 Descend gradually over NE. slope to sec. cor.
 30.19 Wash, 20 lks. wide, course $N. 70^{\circ} E.$
 40.02 Intersect the original cor. of secs. 7, 12, 13 and 18, which is a granite stone 8x6x4 ins. above ground, firmly set, marked with 2 notches on N. edge and 4 notches on S. edge, and witnessed by a mound of stone W. of cor., and three bearing trees as follows:

A mesquite, 16 ins. in diam., $N. 15^{\circ} E.$, 142 lks. dist., marked T18S R20E S7 BT.
 A mesquite, 13 ins. in diam., $S. 33^{\circ} E.$, 389 lks. dist., marked T18S R20E S18 BT.
 A mesquite, 10 ins. in diam., $N. 66^{\circ} W.$, 161 lks. dist., marked T18S R19E S12 BT.

True course and dist. of $N. \frac{1}{2}$ of line, bet. secs. 13 and 18 are therefore, North, 40.02 chs.

Land, rolling.
 Soil, sandy, gravelly and stony, 2nd and 3rd rate.
 Timber, mesquite.
 Undergrowth, greasewood and scrub mesquite.
 Good grass.

North on a random line, bet. secs. 7 and 12 ($S. \frac{1}{2}$).
 Over rolling land, thru scattering timber and undergrowth.
 Descend 7 ft., over N. slope.

.56 Wash, 30 lks. wide, course $N. 80^{\circ} E.$
 Descend gradually over E. slope, to

19.14 Wash, 40 lks. wide, course SE.
 Ascend gradually over SE. slope to $\frac{1}{4}$ sec. cor.

23.94 Wash, 10 lks. wide, course $S. 80^{\circ} E.$
 35.36 Wash, 20 lks. wide, course $S. 70^{\circ} E.$
 39.94 Intersect the original $\frac{1}{4}$ sec. cor. of secs. 7 and 12, which is a granite stone, 10x8x8 ins., above ground, firmly set, marked $\frac{1}{4} S 12$ on W. face and 7 on E. face, and witnessed by two bearing trees, as follows:

An oak, 6 ins. in diam., $N. 19^{\circ} E.$, 51 lks. dist., marked $\frac{1}{4} S 7$ BT.
 An oak, 6 ins. in diam., $N. 74^{\circ} W.$, 81 lks. dist., marked $\frac{1}{4} S 12$ BT.

True course and dist. of $S. \frac{1}{2}$ of line bet. secs. 7 and 12 are therefore, North, 39.94 chs.

Thence,

Retracement of East bdy. of Township 18 South Range 19 East. 15

Chains.	
	North, on random line, bet. secs. 7 and 12 (N. $\frac{1}{2}$). Over rolling land, thru. scattering timber and dense undergrowth. Ascend gradually, over SE. slope.
1.30	Wash, 10 lks. wide, course SE.
9.98	Old road, brs. NE. and SW.
21.08	Wash, 5 lks. wide, course SE.
29.98	Wash, 30 lks. wide, course SE. Ascend 29 ft., over S. slope.
34.96	Descend 30 ft., over N. slope.
39.26	Wash, 30 lks. wide, course NE. Ascend 7 ft., over SE. slope, to
39.95	Intersect the original cor. of secs. 1, 6, 7 and 12, which is a granite stone, 8x6x5 ins., above ground, firmly set marked with 1 notch on N. edge, and 5 notches on S. edges and witnessed by a mound of stone, W. of cor., and two bearing trees, as follows: An oak, 6 ins. in diam., S. $72\frac{1}{2}^{\circ}$ E., 66 lks. dist., marked T18S R20E S7 BT. An oak, 6 ins. in diam., S. $36\frac{1}{2}^{\circ}$ W., 103 lks. dist., marked T18S R19E S12 BT. True course and dist. of N. $\frac{1}{2}$ of line, bet. secs. 7 and 12, are therefore North, 39.95 chs. Land rolling. Soil, gravelly and stony, 2nd and 3rd rate. Timber, mesquite. Undergrowth, greasewood and scrub mesquite. Good grass.

	North, on random line, bet. secs. 1 and 6 (S. $\frac{1}{2}$). Over rolling land, thru. scattering undergrowth. Ascend 16 ft., over SE. slope.
.30	Wire fence, brs. E. and W.
6.90	Spur, slopes NE. Descend 68 ft., over N. slope.
14.41	Wash, 20 lks. wide, course N. 70° E. Ascend 34 ft., over SE. slope.
18.07	Spur, slopes NE. Descend 34 ft., over N. slope.
23.07	Wash, 15 lks. wide, course N. 80° E. Descend gradually over rolling NE. slope to $\frac{1}{4}$ sec. cor.
29.26	Wire fence brs. N. $\frac{1}{2}^{\circ}$ W. and S. $\frac{1}{2}^{\circ}$ E. in wash, 10 lks. wide, course N. 80° E.
35.76	Wash, 10 lks. wide, course NE.
39.93	Fall 9 lks. E. of the original $\frac{1}{4}$ sec. cor. of secs. 1 and 6, which is a granite stone 8x8x4 ins. above ground, firmly set, marked $\frac{1}{4}$ S 6 on W. face, and 1 on E. face, and witnessed by two pits, one each N. and S. of cor., and a mound of earth W. of cor. No bearing trees. True course and dist. of S. $\frac{1}{2}$ of line, bet. secs. 1 and 6 are therefore, N. $0^{\circ} 8' W.$, 39.93 chs. Thence, North, on random line, bet. secs. 1 and 6 (N. $\frac{1}{2}$). Over rolling land, thru. scattering undergrowth. Descend gradually over NE. slope, to Tp. cor.
1.60	Wash, 30 lks. wide, course NE.
9.29	Wash, 30 lks. wide, course NE.
10.69	Wash, 30 lks. wide, course NE.
38.09	From this point, cor. of wire fence brs. W. 30 lks. dist., from which fences extend W. and S. $\frac{1}{2}^{\circ}$ E.
39.50	Wash, 100 lks. wide, course N. 60° E.
40.09	Fall 9 lks. E. of the cor. of Ts. 17 and 18 S., Rs. 19 and 20 E., reconstructed at point of original location by P. Contzen, U.S.D.S. in 1901, which is a granite stone, 6x6x5 ins. above ground, firmly set, marked with 6 grooves on each of N., E., S. and W. faces, witnessed by four pits, one each, E., W., N. and S., a mound of earth

BOOK 3649

16 Retracement of East bdy. of Township 18 South, Range 19 East.

chains.

S. of cor., and one bearing tree as follows:

A mesquite, 8 ins. in diam., N. 74° W., 396 lks.

dist., marked T17S R19E S36 BT.

True course and dist. of N. $\frac{1}{2}$ of line, bet. secs. 1 and 6
are therefore, N. 9° 8' W., 40.99 chs.

Land, rolling.

Soil, gravelly and stony, 2nd and 3rd rate.

No timber.

Undergrowth, greasewood and scrub mesquite.

Good grass.

Resurvey of East bdy. of Township 18 South Range 18 East. 17

Chains.

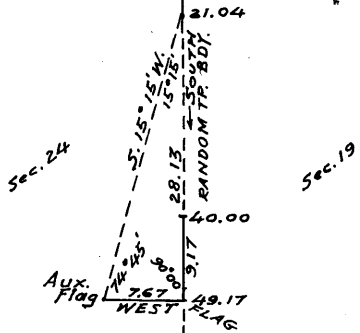
This township boundary was surveyed in 1884 by Lewis Wolfley, U.S.D.S., establishing all cors. with a common reference to areas on both sides of the line, and no retracement or resurvey of any portion of this range line is of record.

Retracement for Resurvey.

From the cor. of Ts. 17 and 18 S., Rs. 18 and 19 E., hereinafter described;
 South, on random line on E. boundaries of secs. 1 and 12, searching diligently at record intervals for the original cors. Fail to find trace of any old cor., until at 158.28 Fall 21 lks. W. of the original cor. of secs. 7, 12, 13 and 18, hereinafter described.
 True course and dist. of this part of the range line are therefore, N. 9° 17' W., 158.28 chs., which, to maintain the original proportion between cor. intervals, gives four intervals of 39.57 chs. each for the reestablishment of the missing cors., referring to areas W. of the line.

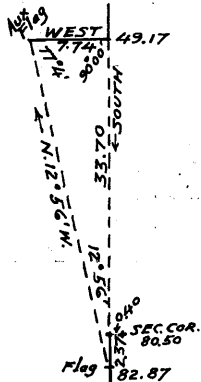
40.00 South, on a random line, on E. bdy. of sec. 13.
 Diligent search in this vicinity fails to reveal any trace of the original 1/4 sec. cor.
 82.46 Fall 41 lks. W. of the original cor. of secs. 13, 18, 19 and 24, hereinafter described.
 True course and dist. of E. bdy. of sec. 13 are therefore N. 9° 17' W., 82.46 chs.

21.04 South, on a random line, on E. bdy. of sec. 24.
 Precipitous descent over cliffs, facing SE. renders chaining impracticable; therefore, triangulate as follows:
 Vertical angle to flag on random line = + 4°. Auxiliary flag brs. S. 15° 15' W.; from flag on random line, the auxiliary flag bears West, 7.67 chs. dist.; all bearings checked by direct readings of the solar, and all angles checked by deflection.



Dist. on random line, South, =	21.04 chs.
Dist. by triangulation, south =	28.13 chs.
	49.17 "
Dist. by return measurement, North, =	9.17 chs.
	40.00 "

40.00 Diligent search in this vicinity fails to reveal any trace of the original 1/4 sec. cor. Hence chain measurement south, 9.17 chs.
 49.17 Triangulation point on spur, sloping W. Beyond this point, precipitous slopes render chaining impracticable; therefore, triangulate as follows:



Vertical angle to flag on random line = + 20°; auxiliary flag brs. west 7.74 chs. dist.; from flag on random line the auxiliary flag brs. N. 12° 56' W.; all bearings checked by direct readings of the solar, and all angles checked by deflection.

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18 Resurvey of East bdy. of Township 18 South, Range 18 East.

Chains.

Retracement for Resurvey, continued.

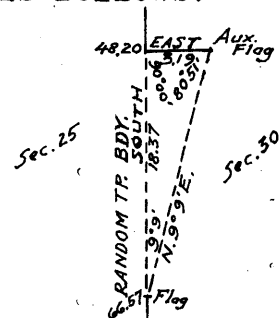
Dist. on random line, South =	49.17 chs.
Dist. by triangulation, South, =	33.70 chs.
	<u>82.87 "</u>
Dist. by return measurement, North =	2.37 "
	<u>80.50</u>

80.50 Fall 40 lks. W. of the original cor. of secs. 19, 24, 25 and 30, hereinafter described. True course and dist. of E. bdy. of sec. 24 are therefore, N. 0° 17' W., 80.50 chs.

40.00 South, on a random line, on E. bdy. of secs. 25 and 36. Diligent search in this vicinity fails to reveal any trace of original $\frac{1}{4}$ sec. cor. of secs. 25 and 30.

48.20 Beyond this point, precipitous slopes render chaining impracticable; therefore, triangulate as follows:

Vertical angle to flag on random line = + 4°. Auxiliary flag brs. East, 3.19 chs. dist.; from flag on random line, the auxiliary flag brs. N. 9° 09' E.; all bearings checked by direct readings of the solar, and all angles checked by deflection.



Dist. on random line, South =	48.20 chs.
Dist. by triangulation, South =	18.37 chs.
	<u>66.57 "</u>

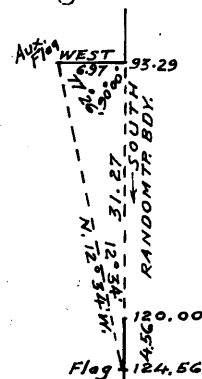
66.57 Triangulation point, Continue line and measurement by chaining.

80.00 Diligent search in this vicinity fails to reveal any trace of original cor. of secs. 25, 30, 31 and 36.

Continue line and measurement by chaining.

93.29 Beyond this point, precipitous slopes of a canyon render chaining impracticable; therefore, triangulate across canyon as follows:

Vertical angle to flag on random line = - 6°; auxiliary flag brs. W. 6.97 chs. dist. From flag on random line, the auxiliary flag brs. N. 12° 34' W.; all bearings checked by direct readings of the solar and all angles checked by deflection.



Dist. on random line, South =	93.29 chs.
Dist. by triangulation, South, =	31.27 "
	<u>124.56 "</u>
Dist. by return measurement, North =	4.56 "
	<u>120.00 chs.</u>

120.00 Diligent search in this vicinity fails to reveal any trace of the original $\frac{1}{4}$ sec. cor. of secs. 31 and 36. Continue line and measurement by chaining.

153.93 Fall 291 lks. E. of the cor. of Ts. 18 S., Rs. 18 and 19 E., hereinbefore described.

True course and dist. of the range line east of secs. 25 and 36, are therefore, N. 1° 04' E., 155.96 chs., which to maintain the original proportion bet. cor. intervals, gives four intervals of 38.99 chs. each for the reestablishment of the missing cors. referring to areas W. of the line.

BOOK 3649

Resurvey of East bdy. of Township 18 South, Range 18 East. 19

Chains.

Resurvey.

From the corner of Ts. 18 S., Rs. 18 and 19 E., hereinbefore described,

N. 1° 4' E., on true line, on E. bdy. of sec. 36.

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

13.43 Descend 160 ft., over NE. slope, to Wash, 10 lks. wide, course N. 25° W.

17.27 Descend 22 ft., over NW. slope, to Wash, 20 lks. wide, course N. 80° W.

22.12 Ascend 18 ft., over SW. slope, to Wash, 10 lks. wide, course SW.

29.40 Ascend 197 ft., over SE. slope. Spur, slopes SW.

31.40 Descend 320 ft., over NW. slope, to bottom of canyon.

A point 2.32 chs. W. of the triangulation point, hereinbefore described.

Continue line and measurement by chaining.

37.72 Bottom of canyon, 50 lks. wide, course S. 60° W.

38.99 Ascend 15 ft., over SE. slope, to

(Proportional dist.) Set an iron post 3 ft. long, 1 in. in diam., 10 ins. in the ground, to bed rock, and raise a mound of stone around post, for reestablished $\frac{1}{4}$ sec. cor. of sec. 36, T. 18 S., R. 18 E., marked on brass cap,

1836

1922

from which,

A juniper, 10 ins. in diam., brs. N. 80 $\frac{1}{4}$ ° W., 56 lks. dist., marked $\frac{1}{4}$ S 36 BT.

A juniper, 12 ins. in diam., brs. S. 64 $\frac{1}{4}$ ° W., 138 lks. dist., marked $\frac{1}{4}$ S 36 BT.

Continue measurement by chaining.

39.93 Ascend 17 ft., over SE. slope, to

(Midpoint of W. bdy. of sec. 31) Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in the ground to bedrock, and raise a mound of stone around post, for reestablished $\frac{1}{4}$ sec. cor. of sec. 31, T. 18 S., R. 19 E., marked on brass cap,

1831

1922

from which,

A juniper, 8 ins. in diam., brs. N. 64 $\frac{1}{4}$ ° E., 56 lks. dist., marked $\frac{1}{4}$ S 31 BT.

An oak, 6 ins. in diam., brs. S. 31 $\frac{1}{4}$ ° E., 52 lks. dist., marked $\frac{1}{4}$ S 31 NT.

Discontinue chaining, owing to precipitous ascent of SE. slope.

Measurement of 31.27 chs. from 31.40 ch. station to 62.67 ch. station by triangulation, hereinbefore described.

62.67 Ascend about 290 ft., over SE. slope, to

A point, 1.73 chs. W. of triangulation point hereinbefore described.

Continue line and measurement by chaining.

70.65 Ascend 128 ft., over SE. slope, to

Ridge, brs. N. 70° E. and S. 70° W.

77.98 Descend 274 ft., over NW. slope, to

(Proportional dist.) Set an iron post, 3 ft. long, 2 ins. in diam., 15 ins. in the ground to bed rock, and raise a mound of stone around post for reestablished cor. of secs. 25 and 36, T. 18 S., R. 18 E., marked on brass cap,

BOOK 3649

20 Resurvey of East bdy. of Township 18 South, Range 18 East.

Chains.

T18S	T18S
S25	S31
S36	
R18E	R19E
1922	

from which,

A pine, 8 ins. in diam., brs. N. $50\frac{1}{4}^{\circ}$ W., 39 lks.
dist., marked T18S R18E S25 BT.An oak, 8 ins. in diam., brs. S. 53° W., 8 lks.
dist., marked T18S R18E S36 BT.

Land, mountainous.

Soil, stony, 3rd and 4th rate.

Timber, juniper, pine and oak.

Undergrowth, scrub oak and scrub juniper.

Good grass.

-
- 1.87 N. $1^{\circ}4'E$, on true line, on E. bdy. of sec. 25.
Over mountainous land, thru. dense timber and undergrowth.
Descend 62 ft., over NW. slope, to
(79.86 chs. N. $1^{\circ}4'E$ from cor. of Ts. 18 S., Rs. 18 and 19 E.)
Point of intersection of the Subdivision line, bet. secs. 30
and 31, T18S R19E. Closing cor. of said secs. established
here as hereinafter described in notes of survey of
the subdivision lines of T. 18 S., R. 19 E.
- 11.41 Descend 292 ft., over NW. slope, to
A point 1.24 chs. W. of triangulation point, hereinbefore
described.
Discontinue chaining.
- 26.50 Descend about 200 ft., over NW. slope, to
(Approximate) Bottom of canyon, 30 lks. wide, course N.
 75° W.
- 29.78 Ascend about 115 ft., over SW. slope, to
A point 90 lks. W. of triangulation point hereinbefore de-
scribed.
Continue line and measurement by chaining.
- 30.70 Ascend 10 ft., over SW. slope, to
Point of spur, slopes S. 60° W.
- 35.65 Descend 90 ft., over NW. slope.
Wash, 10 lks. wide, course S. 35° W.
Leave timber, brs. NE. and SW.
- 38.99 Ascend 100 ft., over SE. slope, to
(Proportional dist.) Set an iron post, 3 ft. long, 1 in.
in diam., 12 ins. in the ground to bed rock, deposit a
stone marked with a cross (x) at base of post, and
raise a mound of stone around post, for reestablished
 $\frac{1}{4}$ sec. cor. of sec. 25, T. 18S R18E, marked on brass cap,
S25
1922
- 42.06 No bearing trees available.
Ascend 187 ft., over SE. slope, to
(Midpoint of W. bdy. of sec. 30). Set an iron post, 3 ft.
long, 1 in. in diam., 14 ins. in the ground to bed rock,
deposit a stone, marked with a cross (x) at base of
post, and raise a mound of stone around post for re-
established $\frac{1}{4}$ sec. cor. of sec. 30, T18S R19E, marked on
brass cap,
S30
1922
- No bearing trees available.
Ascend 120 ft., over SE. slope, to

Re-survey of East bdy. of Township 18 South, Range 18 East 21

Chains.

- 47.09 Spur, slopes S. 60°W.
Descend 190 ft., over NW. slope.
- 61.55 Wash, 20 lks. wide, course SW.
Ascend 385 ft., over S. slope.
- 75.61 Ridge, brs. E. and W. Point of triangulation in S. 1/2 bet. secs. 19 and 24, as hereinbefore described brs. W. 41 lks. dist. Continue chaining.
- 77.98 Descend 53 ft., over N. slope, to
Intersect the original cor. of secs. 19, 24, 25 and 30, which is a granite stone in place, 4x3x2 ft. above ground, marked with a cross (x) at exact cor. point, with 4 notches N. and 2 notches S. of cross, and witnessed by a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. No bearing trees.
This cor. monument now refers to secs. 24 and 25 only, and no change in marking on accessory is required.
Land, mountainous.
Soil, stony, 3rd and 4th rate.
Timber, juniper, pine and oak.
Undergrowth, scrub oak, scrub juniper and cactae.
Good grass.

N. 0°17'W., on true line, on E. bdy. of sec. 24.
Over mountainous land, thru. scattering timber and dense undergrowth.

- 4.28 Descend 90 ft., over N. slope, to
(80.39 chs. northing from closing cor. of secs. 30 and 31, T. 18 S., R. 19 E.),
Point of intersection of the Subdivision line, bet. secs. 19 and 30, T. 18 S., R. 19 E. Closing cor. of said secs. established here as hereinafter described in the notes of the survey of the Subdivision lines of T. 18 S., R. 19 E.
- 5.85 Descend 34 ft., over N. slope, to
S. or left rim of canyon, brs. NW and SE. Discontinue chaining. Measurement to 31.33 chs. station by triangulation, hereinbefore described. From 31.33 ch. sta. make return measurement by chaining to
- 28.34 Wash, 10 lks. wide, course N. 70°W. in bottom of canyon, about 700 ft. below S. rim.
Ascend 83 ft., over S. slope, to
- 31.33 Point of spur, slopes W. Triangulation point brs. W. 24 lks. dist. Triangulated measurement of 28.13 chs. N. and 33.70 chs. S. from this point, as hereinbefore described.
Continue line and measurement by chaining.
- 40.25 Descend 220 ft., over NW. slope, to
(Proportional dist.) Set an iron post, 3 ft. long, 1 in. in diam., 27 ins. in the ground for reestablished 1/4 sec. cor. of sec. 24, T. 18 S., R. 18 E., marked on brass cap,

1/4 S 24

1922

from which,

- A pine, 10 ins. in diam., brs. West 100 lks. dist., marked 1/4 S 24 BT.
- A pine, 12 ins. in diam., brs. S. 56 1/2°W., 142 lks. dist., marked 1/4 S 24 BT.

Continue line and measurement by chaining.

- 43.85 Descend 50 ft., over NW. slope, to
Set an iron post, 3 ft. long, 1 in. in diam., 27 ins. in the ground for witness cor. to the reestablished 1/4 sec. cor. of sec. 19, T. 18 S., T. 19 E., marked on brass cap,

W | C

1/4 S 19

1922

BOOK 3649

22 Resurvey of East bdy. of Township 18 South, Range 18 East.

Chains.

- from which,
 An oak, 10 ins. in diam., brs. N. 22° E., 5 lks. dist., marked WC & S19 BT.
 A pine, 3 ins. in diam., brs. N. 36° E., 7 lks. dist., marked BT.
- Descend 5 ft., over NW. slope.
- 44.22 Midpoint of W. bdy. of sec. 19) True point for $\frac{1}{4}$ sec. cor. of sec. 19, T. 18 S., R. 19 E. falls in wash, 40 lks. wide, course S. 80° W. in bottom of canyon, where natural causes would insure the destruction of a cor. monument; therefore, establish witness cor. at 0.37 chs., S. 0° 17' E. as described above.
- Discontinue chaining. Measurement to 59.46 chs. sta. by triangulation.
- 59.46 Ascend about 150 ft., over S. slope, to Triangulation point brs. W. 10 lks. dist. Continue line and measurement by chaining.
- 61.40 Ascend 10 ft. over S. slope.
 Spur, slopes SW.
- 65.97 Descend 100 ft., over NW. slope.
 Wash, 20 lks. wide, in gulch, course S. 50° W.
 Ascend 20 ft., over SE. slope.
- 66.50 Spur, slopes SW.
 Descend 23 ft., over NW. slope.
- 67.89 Wash, 30 lks. wide, course SW.
 Ascend 165 ft., over SE. slope, to
- 76.38 Wash, 10 lks. wide, course SE.
 Ascend 125 ft., over SW. slope, to
- 80.50 Intersect the original cor. of secs. 15, 18, 19 and 24, which is a malpais stone, 10x10x6 ins. above ground, loosely set, dimly marked with 3 notches on each of N. and S. edges, and witnessed by scattered remains of a mound of stone, W. of cor. No bearing trees.
- Reconstruct this cor. monument as follows:
 Alongside old stone, Set an iron post 3 ft. long, 2 ins. in diam., 27 ins. in the ground, for cor. of secs. 13 and 24, T. 18 S., R. 18 E., marked on brass cap,
- | | |
|------|------|
| T18S | T18S |
| S13 | S19 |
| S24 | |
| R18E | R19E |
| 1922 | |
- No bearing trees available. Rebuild the mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 Land, mountainous.
 Soil, stony, 3rd and 4th rate.
 Timber, pine, juniper and oak.
 Undergrowth, scrub oak.
 Good grass.
-
- N. 0° 17' W., on a true line, on E. bdy. of sec. 13.
 Over mountainous land, thru. scattering timber and dense undergrowth.
- 3.66 Ascend 70 ft., over SW. slope, to (79.88 chs. N. 0° 17' W. from closing cor. of secs. 19 and 30)
 Point of intersection of the Subdivision line bet. secs. 18 and 19, T. 18 S., R. 19 E.; closing cor. of said secs. established here as hereinafter described in the notes of the survey of the Subdivision lines of T. 18 S., R. 19 E.
- 8.93 Ascend 72 ft., over SW. slope.
 Spur, slopes SE.
 Descend 27 ft., over NE. slope.
- 9.52 Wash, 10 lks. wide, course SE.
 Ascend 180 ft., over SW. slope.

Resurvey of East bdy. of Township 18 South, Range 18 East. 23

Chains.

- 16.94 Spur, slopes SE.
Descend 30 ft., over NE. slope.
- 19.30 Wash, 10 lks. wide, course SE.
Ascend 429 ft., over S. slope.
- 33.55 Ridge, brs. E. and W. thence over limestone cliffs, bearing E. and W., facing N.
Descend 410 ft., to
- 41.23 (Proportional dist.) Point for reestablished $\frac{1}{4}$ sec. cor. of sec. 13, T.18 S., R.18 E. falls on precipitous slope, where it is impracticable to set monument; therefore, at
- 41.33 Set an iron post, 3 ft. long, 1 in. in diam., 27 ins. in the ground for witness cor. to reestablished $\frac{1}{4}$ sec. cor. of sec. 13, T.18 S., R.18 E., marked on brass cap;

S13
|
W C
1922

from which,

A pine, 8 ins. in diam., brs. N. 45° E., 21 lks. dist., marked WC $\frac{1}{4}$ S BT.

No other bearing trees available. Raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

- 43.66 Descend 160 ft., over steep N. slope, to (Midpoint of W. bdy. of sec. 18) Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground to bed rock, deposit a stone, marked with a cross (x) at base of post, and raise a mound of stone around post, for reestablished $\frac{1}{4}$ sec. cor. of sec. 18, T.18 S., R.19 E., marked on brass cap,

S18
|

1922

No bearing trees available. raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, E. of cor.

- 50.76 Descend 254 ft., over N. slope.
Wash, 10 lks. wide, in gulch, course NW.
Ascend 151 ft., over SW. slope.
- 57.92 Spur, slopes SW.
Descend 190 ft., over NW. slope, to
- 62.93 A point about 90 lks. E. of head of gulch, course NW.
Descend 212 ft., over W. slope, to
- 73.57 Spur, slopes NW.
Descend 204 ft., over NE. slope, to

- 82.46 Intersect the original cor. of secs. 7, 12, 13 and 18, which is a limestone 10x8x4 ins. above ground, loosely set, marked with 2 notches on N. edge, and 4 notches on S. edge, and witnessed by a mound of stone, W. of cor., and one bearing tree, as follows:

An oak, 12 ins. in diam., S. 15° W., 93 lks. dist., marked T18S R18E S13 BT.

As the stone shows signs of disintegration, reconstruct this cor. monument, and alter it to refer to secs. 12 and 13 only, as follows:

Destroy the mound of stone, W. of cor., and alongside the old stone, set an iron post, 3 ft. long, 2 ins. in diam., 20 ins. in the ground to bed rock, and raise a mound of stone around post for cor. of secs. 12 and 13, T.18 S., R.18 E., marked on brass cap,

T18S T18E
S12 S18
S13
R18E R19E
1922

In addition to the original bearing tree establish a new

BOOK 3649

24 Resurvey of East bdy. of Township 18 South, Range 18 East.

Chains.

one as follows:

An oak, 8 ins. in diam., brs. N. 20 $\frac{1}{4}$ ° W., 86 lks. dist., marked T18S R18E S12 BT.

Land, mountainous.
Soil, stony, 3rd and 4th rate.
Timber, juniper, pine and oak.
Undergrowth, scrub oak.

N. 9° 17' W., on true line, on E. bdy. of sec. 12.
Over mountainous land, thru scattering timber and dense undergrowth.

1.20 Descend 20 ft., over NE. slope, to
(80.00 chs. northing from the closing cor. of secs. 18 and 19)

Point of intersection of the subdivision line, bet. secs. 7 and 18, T. 18 S., R. 19 E. Closing cor. of said secs. established here as hereinafter described in the notes of the survey of the Subdivision lines of T. 18 S., R. 19 E.

12.23 Descend 170 ft., over NE. slope.
Wash, 10 lks. wide, course NW. Spring brs. NW. about 100 lks. dist.

13.60 Ascend 20 ft., over SW. slope.
Spur, slopes NW.

17.67 Descend 38 ft., over NE. slope.
Wash, 20 lks. wide, course N. 75° W.

36.78 Ascend 412 ft., over S. slope.
Ridge, brs. N. 80° E. and S. 80° W.

39.57 Descend 69 ft., over N. slope, to
(Proportional dist.) Set an iron post, 3 ft. long, 1 in. in diam., 27 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor. of sec. 12, T. 18 S., R. 18 E., marked on brass cap,

S 12

1922

No bearing trees available. Raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Descend 40 ft., over N. slope, to
41.75 (Midpoint of W. bdy. of sec. 7) Set an iron post, 3 ft. long, 1 in. in diam., 27 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor. of sec. 7, T. 18 S., R. 19 E., marked on brass cap,

S 7

1922

No bearing trees available. Raise a mound of stone, 2 fr. base, 1 $\frac{1}{2}$ ft. high, E. of cor. Descend 72 ft., over N. slope, to
46.23 Wash, 20 lks. wide, course N. 70° W.,
Ascend 278 ft., over SE. slope.

59.25 Spur, slopes SW.

76.23 Descend 470 ft., over NW. and W. slopes, to
Spur slopes N. 30° W.

79.14 Descend 45 ft., over NE. slope, to
(Proportional dist.) Set an iron post, 3 ft. long, 2 ins. in diam., 12 ins. in the ground to bedrock, and raise a mound of stone around post, for reestablished cor. of secs. 1 and 12, T. 18 S., R. 18 E., marked on brass cap,

T18S T18S
S 1 S 7
S 12 S 7
R18E R19E

1922

Chains.

from which,

A chinaberry, 6 ins. in diam., brs. N. 21 1/2° W., 17 lks. dist., marked T18 S., R. 18 E., S 1 BT.

A chinaberry, 6 ins. in diam., brs. S. 18 1/2° W., 31 lks. dist., marked T18 S., R. 18 E., S12 BT.

Land, mountainous.

Soil, stony, 3rd and 4th rate.

Timber, oak and china berry.

Undergrowth, scrub oak and ocotillo.

Good grass.

N. 9° 17' W., on a true line, on E. bdy. of sec. 1.

Over mountainous land, thru. scattering timber and undergrowth.

Descend 22 ft., over NE. slope.

1.16 Wash, 20 lks. wide, course NW.

Ascend 28 ft., over S. slope, to

2.18 (80.12 chs. northing from closing cor. of secs. 7 and 18)

Point of intersection of the Subdivision line, bet. secs. 6 and 7, T. 18 S., R. 19 E.; closing cor. of secs. 6 and 7, established here as hereinafter described in the notes of the survey of the Subdivision lines of T. 18 S., R. 19 E.

Ascend 124 ft., over S. slope.

5.50 Spur, slopes SW.

Ascend 34 ft., over W. slope, to

10.45 Head of wash, course SW.

Ascend 221 ft., over SW. slope.

20.77 Ridge, brs. NW. and SE.

Descend 273 ft., over NE. slope, to

28.20 Descend 25 ft., over W. slope, to

29.25 Spur, slopes NW.

Descend 170 ft., over NE. slope, to

39.57 (Proportional dist.) Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground to bed rock, supported in a mound of stone, for reestablished 1/4 sec. cor., of sec. 1, T. 18 S., R. 18 E., marked on brass cap,

1/8 S 1

1922

from which,

An oak, 10 ins. in diam., brs. N. 41 1/4° W., 99 lks. dist., marked 1/8 S 1 BT.

An oak, 10 ins. in diam., brs. S. 35 1/4° W., 122 lks. dist., marked 1/8 S 1 BT.

Descend 29 ft., over NE. slope.

40.85 Wash, 10 lks. wide, course N. 50° W.

Ascend 10 ft., over SW. slope, to

42.18 (40.00 chs. northing from closing cor. of secs. 6 and 7),

Set an iron post, 3 ft. long, 1 in. in diam., 15 ins. in the ground, to bed rock, supported in a mound of stone, for reestablished 1/4 sec. cor. of sec. 6, T. 18 S., R. 19 E., marked on brass cap,

1/8 S 6

1923

from which,

An oak, 8 ins. in diam., brs. N. 15 1/2° E., 163 lks. dist., marked 1/8 S 6 BT.

An oak, 12 ins. in diam., brs. S. 21° E., 169 lks. dist., marked 1/8 S 6 BT.

Descend 30 ft., over W. slope, to

47.17 Spur, slopes NW.

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26 Resurvey of East bdy. of Township 18 South, Range 18 East.

Chains.

56.23 Descend 67 ft., over NE. slope.
Wash, 40 lks. wide, in gulch, course N. 70° W. Leave timber, brs. NE. and SW.

70.97 Ascend 220 ft., over S. slope, to Spur, slopes SW.

74.49 Ascend 47 ft., over W. slope, to Wash, 10 lks. wide, course SW. near head.

79.14 Ascend 118 ft., over SW. slope, to Intersect the cor. of Ts. 17 and 18 S., R. 18 and 19 E., reconstructed in original position by F. B. Jacobs, U.S.D.S. in 1908, which is a quartzite stone 10x8x6 ins. above ground, firmly set, marked with 6 grooves on each of N., E., S. and W. faces, and witnessed by a mound of stone, 3 ft. base, 2 ft. high, S. of cor. This is a good durable cor.; therefore, do not set iron post alongside.

No bearing trees available.
Land, mountainous.
Soil, stony, 3rd and 4th rate.
Timber, oak.
Undergrowth, scrub oak and ocotillo.
Good grass.

Chains.

This township boundary was surveyed in 1873 by Theodore F. White, U.S.D.S., who established all corners thereon common to areas on both sides of the line. No re-tracement or resurvey of any portion of this line is of record. The entire area N. of the line being included in previously accepted surveys, the alignment of this township boundary is not subject to rectification.

Retracement for Resurvey.

From the cor. of Ts. 17 and 18 S., Rs. 19 and 20 E., hereinbefore described,
West, on random line, searching diligently at record intervals for the original corners. Fail to find trace of any old cor., until at
239.21 Fall 223 lks. N. of the cor. of secs. 3, 4, 33 and 34, hereinafter described.
True course and dist. of this part of the Tp. bdy. are therefore, S. 89° 28' W., 239.22 chs., which, to maintain the original proportion between corner intervals, gives six intervals of 39.87 chs. each for the reestablishment of the missing corners.
These intervals being within limits of measurement allows of a reestablishment of all the missing cōrs. with a common reference to areas both N. and S. of the line.

From cor. of secs. 3, 4, 33 and 34,
West, on random line, searching diligently at record intervals for the original corners; fail to find trace of any old corner, until at
159.59 Fall 158 lks. N. of the original corner of secs. 5, 6, 31 and 32, hereinafter described.
True course and distance of this part of the Tp. bdy. are therefore, S. 89° 26' W., 159.60 chs., which, to maintain the original proportion between corner intervals gives four intervals of 39.90 chs. each for the reestablishment of the missing corners.
These intervals being within limits of measurement allows of a reestablishment of all the missing corners with a common reference to areas both N. and S. of line.

From cor. of secs. 5, 6, 31 and 32,
West, on a random line, bet. secs. 6 and 31.
40.00 Diligent search in this vicinity fails to reveal any trace of the original $\frac{1}{4}$ sec. cor.
77.40 Fall 2 lks. S. of the cor. of Ts. 17 and 18 S., Rs. 18 and 19 E., hereinbefore described.
True course and dist. of the Tp. bdy. bet. secs. 6 and 31 are, therefore, N. 89° 59' W., 77.40 chs.
The record length of the Tp. bdy., bet. secs. 6 and 31 is 78.67 chs.; therefore, the distance 77.40 chs. determined in the above described retracement is out of limits in measurement, and two $\frac{1}{4}$ sec. cōrs. will be required, one at proportional dist. of 39.35 chs., N. 89° 59' W. from cor. of secs. 5, 6, 31 and 32 to refer to the quarters of sec. 31 only, and one at 40.00 chs. N. 89° 59' W. from same sec. cor. to refer to the quarters of sec. 6 only.

RESURVEY.

From the cor. of Ts. 17 and 18 S., Rs. 19 and 20 E., hereinbefore described,

BOOK 3649

28 Resurvey of North bdy. of Township 18 South, Range 19 East.

Chains.

S. $89^{\circ}28'W.$, on true line, bet. secs. 1 and 36.
 Over rolling land, thru. scattering timber and undergrowth.
 Ascend gradually over NE. slope to $\frac{1}{4}$ sec. cor.
 0.30 Fence cor. brs. S. 2.00 chs. dist., from which fences extend
 S. $\frac{1}{2}^{\circ} E.$ and W. Thence nearly parallel to fence about 2
 chs. S. of line.
 13.00 Wash, 100 lks. wide, course N. $50^{\circ} E.$
 39.87 (Proportional dist.) Set an iron post, 3 ft. long, 1 in.
 in diam., 26 ins. in the ground for reestablished $\frac{1}{4}$ sec.
 cor. of secs. 6 and 31, marked on brass cap,

S 36
 4
 S 1
 1922

from which,

A mesquite, 5 ins. in diam., brs. N. $7\frac{1}{4}^{\circ} W.$, 41
 lks. dist., marked $\frac{1}{4}$ S. 36 BT.
 A catclaw, 8 ins. in diam., brs. S. $17\frac{3}{4}^{\circ} E.$, 97
 lks. dist., marked $\frac{1}{4}$ S 1 BT.
 Ascend gradually over NE. slope, nearly parallel to fence
 about 150 lks. S. of line.
 42.44 Descend 51 ft., over NW. slope.
 48.50 Wash, 10 lks. wide, course NE.
 Ascend 56 ft., over SE. slope.
 61.47 Spur, slopes N. $60^{\circ} E.$
 Descend 46 ft., over NW. slope.
 63.14 Old road, brs. N. and S.
 70.92 Wash, 100 lks. wide, course N. $65^{\circ} E.$
 Ascend 30 ft., over NE. slope, to
 78.65 Wash, 10 lks. wide, course N. $50^{\circ} E.$
 Ascend 6 ft. over SE. slope, to
 79.74 (Proportional dist.) Set an iron post, 3 ft. long, 2 ins.
 in diam., 12 ins. in the ground to bedrock, deposit
 a stone, marked with a cross (x) at base of post, and
 raise a mound of stone around post, for reestablished
 cor. of secs. 1, 2, 35 and 36, marked on brass cap,

T17S | R19E
 S35 | S36
 S 2 | S 1
 T18S
 1922

from which,

A mesquite, 4 ins. in diam., brs. N. $73\frac{1}{4}^{\circ} E.$, 170
 lks. dist., marked BT.
 An oak, 6 ins. in diam., brs. S. $5\frac{1}{4}^{\circ} E.$, 107
 lks. dist., marked T18S R19E S1 BT.
 A mesquite, 4 ins. in diam., brs. S. $36\frac{1}{4}^{\circ} W.$, 80
 lks. dist., marked BT.
 No other bearing trees available.
 Land, rolling.
 Soil, gravelly, sandy and stony, 2nd and 3rd rate.
 Timber, mesquite and catclaw.
 Undergrowth, scrub mesquite and scrub catclaw.
 Good grass.

S. $89^{\circ}28'W.$, on a true line, bet. secs. 2 and 35.
 Over rolling land, thru. scattering timber and under-
 growth, nearly parallel to fence, about 140 lks. S. of
 line.
 Ascend 42 ft., over SE. slope.
 4.62 Fence cor. brs. S. about 140 lks. dist., from which fences
 extend E. and S.
 10.23 Descend 12 ft., over NW. slope.
 12.34 Wash, 5 lks. wide, course N. $60^{\circ} E.$

Resurvey of North bdy. of Township 18 South Range 19 East. 29

Chains.

18.36 Ascend 60 ft. over SE. slope.
 Wire fence, brs. N. and S.
 27.46 Descend 30 ft., over NW. slope.
 35.12 Wash, 20 lks. wide, course N. 50° E.
 Ascend 15 ft., over SE. slope, to
 39.87 (Proportional dist.) Set an iron post 3 ft. long, 1 in.
 in diam., 18 ins. in the ground, to bed rock, and
 raise a mound of stone around post, for reestablished
 1/4 sec. cor. of secs. 2 and 35, marked on brass cap,

1/4 S 35
 S 2
 1922

from which,
 An oak, 6 ins. in diam., brs. N. 41 1/2° W., 64 lks.
 dist., marked 1/4 S 35 BT.
 A mesquite, 15 ins. in diam., brs. S. 77 1/2° E., 192 lks.
 dist., marked 1/4 S 2 BT.

Ascend 20 ft., over SE. slope.
 43.04 Wire fence; brs. N. 50° E. and S. 50° W.
 48.19 Descend 40 ft., over NW. slope.
 51.00 Wash, 20 lks. wide, course N. 50° E.
 Ascend 96 ft., over SE. slope, to
 79.74 (Proportional dist.) Set an iron post, 3 ft. long, 2 ins.
 in diam., 27 ins. in the ground, for reestablished cor.
 of secs. 2, 3, 34 and 35, marked on brass cap,

T17S | R19E
 S34 | S35
 S 3 | S 2
 T18S
 1922

No bearing trees available; raise a mound of stone, 2 ft.
 base, 1 1/2 ft. high, W. of cor.
 Land, rolling.
 Soil, stony, 3rd rate.
 Timber, oak and mesquite.
 Undergrowth, scrub mesquite.
 Good grass.

S. 89° 28' W., on true line, bet. secs. 3 and 34.
 Over rolling land, thru. scattering timber and undergrowth.
 Ascend 30 ft., over SE. slope, to
 8.75 Rim of bench, brs. NE and SW.; leave rolling, and enter
 nearly level land on bench.
 16.15 Road, brs. NE and SW.
 23.82 Rim of bench, brs. NE. and SW.; leave nearly level surface
 of bench, and enter rolling land.
 Descend 32 ft., over NW. slope.
 26.12 Wash, 15 lks. wide, course N. 50° E.
 Ascend 14 ft., over SE. slope.
 30.50 Descend 17 ft., over NW. slope.
 35.83 Wash, 40 lks. wide, course N. 30° E.
 Ascend 18 ft., over SE. slope, to
 39.87 (Proportional dist.) Set an iron post, 3 ft. long, 1 in.
 diam., 26 ins. in the ground, for reestablished 1/4
 sec. cor., of secs. 3 and 34, marked on brass cap,

1/4 S 34
 S 3
 1922

from which,
 An oak, 10 ins. in diam., brs. N. 20 1/2° W., 38
 lks. dist., marked 1/4 S 34 BT.
 An oak, 8 ins. in diam., brs. S. 17 1/2° W., 60
 lks. dist., marked 1/4 S 3 BT.

BOOK 3649

30 Resurvey of North bdy. of Township 18 South, Range 19 East.

Chains.

Ascend 16 ft., over SE. slope.
 41.46 Descend gradually over NW. slope.
 63.75 Wash, 20 lks. wide, course N. 30° E.
 Ascend 36 ft., over SE. slope.
 76.04 Descend 17 ft., over NW. slope, to
 79.74 Intersect the cor. of secs. 3, 4, 33 and 34, reconstructed
 in its original position in 1904 by J. A. Rockfellow,
 U. S. D. S. when surveying part of the subdivision lines
 of T. 18 S., R. 19 E. This cor. monument is a granite
 stone 10x8x6 ins. above ground, firmly set, marked
 with 3 notches on each of E. and W. edges, and witnessed
 by a mound of stone E. of cor., and four bearing trees,
 as follows:

- An oak, 8 ins. in diam., S. 33 $\frac{1}{2}$ ° W., 95 lks. dist.,
marked T18S R19E S4 BT.
- An oak, 10 ins. in diam., S. 62° W., 100 lks. dist.,
marked T18S R19E S4 BT.
- An oak, 16 ins. in diam., S. 74° W., 145 lks. dist.,
marked T18S R19E S4 BT.
- An oak, 15 ins. in diam., N. 76° W., 215 lks. dist.,
marked T17S R19E S33 BT.

Reconstruct this cor. as follows: Alongside old stone
 monument, set an iron post, 3 ft. long, 2 ins. in
 diam., 27 ins. in the ground, for cor. of secs. 3, 4, 33
 and 34, marked on brass cap,

T17S	R19E
S33	S34
S 4	S 3
T18S	
1922	

Destroy old mound of stone, and raise a new mound of stone,
 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

Land, rolling.
 Soil, stony, 2nd and 3rd rate.
 Timber, oak and mesquite.
 Undergrowth, scrub oak.
 Good grass.

S. 89° 26' W., on a true line, bet. secs. 4 and 33.
 Over rolling land, thru. scattering timber and dense
 undergrowth.

Descend 23 ft., over NW. slope.
 5.05 Draw, course NE.
 Ascend 12 ft., over SE. slope.
 7.05 Descend 68 ft., over NW. slope.
 16.95 Wash, 150 lks. wide, course N. 10° E.
 Ascend 45 ft., over NE. slope.
 35.35 Descend 10 ft., over NW. slope.
 39.30 Wash, 10 lks. wide, course N. 15° E.
 Ascend slightly over NE. slope, to
 39.90 (Proportional dist.) Set an iron post 3 ft. long, 1 in.
 in diam., 18 ins. in the ground to bed rock, and
 raise a mound of stone around post, for reestablished
 $\frac{1}{4}$ sec. cor. of secs. 4 and 33, marked on brass cap,

$\frac{1}{4}$ S 33	
S 4	
1922	

from which,

- An oak, 15 ins. in diam., brs. North 86 lks. dist.,
marked $\frac{1}{4}$ S 33 BT.
- A mesquite, 5 ins. in diam., brs. S. 51 lks. dist.,
marked $\frac{1}{4}$ S 4 BT.

Ascend slightly over NE. slope.
 40.50 Descend 20 ft., over NW. slope.

BOOK 3649

Resurvey of North bdy. of Township 18 South, Range 19 East. 31

Chains.

- 47.11 Wash, 10 lks. wide, course N. 15° E.
Ascend 21 ft., over NE. slope.
- 55.19 Descend 50 ft., over NW. slope.
- 62.27 Wash, 20 lks. wide, course N. 30° E.
Ascend 26 ft., over NE. slope.
- 68.96 Descend 12 ft. over NW. slope.
- 71.97 Wash, 10 lks. wide, course N. 15° E.
Ascend 27 ft., over NE. slope to sec. cor.
- 75.48 Wire fence brs. N. and S.
- 79.80 (Proportional dist.) Set an iron post 3 ft. long, 2 ins. in diam., 10 ins. in the ground to bed rock, and raise a mound of stone around post, for reestablished cor. of secs. 4, 5, 32 and 33, marked on brass cap,

T17S	R19E
S32	S33
S 5	S 4
T18S	
1922	

from which,

- An oak, 12 ins. in diam., brs. N. 63 $\frac{3}{4}$ ° E., 36 lks. dist., marked T17S R19E S33 BT.
- An oak, 8 ins. in diam., brs. S. 54 $\frac{3}{4}$ ° E., 11 lks. dist., marked T18S R19E S4 BT.
- An oak, 10 ins. in diam., brs. S. 81 $\frac{1}{2}$ ° W., 43 lks. dist., marked T18S R19E S5 BT.
- An oak, 14 ins. in diam., brs. N. 55° W., 14 lks. dist., marked T17S R19E S32 BT.

Land, rolling.

- Soil, stony, 3rd rate.
- Timber, oak and mesquite.
- Undergrowth, scrub oak.
- Good grass.

S. 89° 26' W., on a true line, bet. secs. 5 and 32.
Over rolling land, thru. dense timber and undergrowth.
Ascend 10 ft., over NE. slope.

- 3.48 Descend 35 ft., over NW. slope.
- 5.76 Wash, 10 lks. wide, course N. 20° E.
Ascend 30 ft., over NE. slope.
- 18.06 Descend 10 ft., over W. slope.
- 19.25 Wash, 100 lks. wide, course NW.
Ascend 10 ft., over E. slope, to
- 23.69 Rim of bench, brs. NW. and SE. Leave rolling, and enter nearly level land on bench.
- 30.69 Rim of bench, brs. N and S. Leave nearly level surface of bench, and enter rolling land.
Descend 30 ft., over W. slope.
- 36.87 Wash, 15 lks. wide, course N. 50° W.
Ascend gradually over NE. slope, to
- 39.90 (Proportional dist.) Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor. of secs. 5 and 32, marked on brass cap,

$\frac{1}{4}$ S 32
S 5
1922

from which,

- An oak, 18 ins. in diam., bears N. 24° W., 115 lks. dist., marked $\frac{1}{4}$ S 32 BT.
- An oak, 15 ins. in diam., brs. S. 55 $\frac{1}{4}$ ° W., 49 lks. dist., marked $\frac{1}{4}$ S 5 BT.

- Descend 17 ft., over NW. slope.
- 46.80 Wash, 10 lks. wide, course N. 35° W.
Descend gradually over NW. slope, to

BOOK 3649

32 Resurvey of North bdy. of Township 18 South, Range 19 East.

Chains.

59.29 Wash, 10 lks. wide, course N. 30° W.
Ascend 22 ft., over NE. slope.

63.18 Descend 60 ft., over SW. slope, to

79.80 Intersect point of original location of the cor. of secs. 5, 6, 31 and 32, as determined by reference to the four original bearing trees as follows:

A juniper, 24 ins. in diam., N. 18½° W., 54 lks.
dist., marked T17S R19E S31 BT.

An oak, 12 ins. in diam., N. 86½° E., 18 lks.
dist., marked T17S R19E S32 BT.

An oak, 12 ins. in diam., S. 5½° E., 38 lks.
dist., marked T18S R19E S5 BT.

An oak, 7 ins. in diam., S. 54° W., 40 lks.
dist., marked T18S R19E S6 BT.

No trace of the wood post cor. monument, or the pits and mound of earth described as accessory thereto, can be found.

Reconstruct the cor. monument at this point as follows:
Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in the ground for cor. of secs. 5, 6, 31 and 32, marked on brass cap,

T17S	R19E
S31	S32
S 6	S 5
T18S	
1922	

In addition to the original bearing trees, establish three new bearing trees as follows:

An oak, 6 ins. in diam., brs. N. 81° E., 15 lks. dist.,
marked T17S R19E S32 BT.

An oak, 10 ins. in diam., brs. S. 64½° E., 11 lks. dist.,
marked T18S R19E S5 BT.

An oak, 4 ins. in diam., brs. S. 39½° W., 43 lks. dist.,
marked BT.

Land, rolling.

Soil, stony, 3rd rate.

Timber, juniper and oak.

Undergrowth, scrub oak and scrub juniper.

Good grass.

N. 89° 59' W., on true line, bet. secs. 6 and 31.

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

3.24 Descend 18 ft., over SW. slope, to
Wash, 20 lks. wide, course S. 70° W.
Descend 32 ft., over SW. slope, to

11.15 Wash, 20 lks. wide, course S. 50° W.
Ascend 31 ft., over SE. slope.

16.43 Descend 32 ft., over SW. slope.

18.37 Wash, 30 lks. wide, course N. 40° W.
Ascend 35 ft., over NE. slope.

24.73 Descend 40 ft., over NW. slope.

29.69 Wash, 20 lks. wide, course N. 40° W.
Ascend 20 ft., over NE. slope.

34.77 Descend 30 ft., over NW. slope, to

39.35 (Proportional dist.) Set an iron post 3 ft. long, 1 in.
in diam., 27 ins. in the ground for reestablished ¼ sec.
cor. of sec. 31, T. 17S R19E marked on brass cap,

¼S31

1922

from which,

An oak, 12 ins. in diam., brs. N. 15½° W., 104 lks.
dist., marked ¼S 31 BT.

An oak, 8 ins. in diam., brs. N. 59½° W., 166 lks.
dist., marked ¼S 31 BT.

Resurvey of North bdy. of Township 18 South, Range 19 East. 33

Chains.

40.00 Descend slightly over NW. slope, to
Set an iron post, 3 ft. long, 1 in. in diam., 27 ins. in
the ground, for reestablished $\frac{1}{4}$ sec. cor. of sec. 6,
T. 18 S., R. 19 E., marked on brass cap,

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

1922

from which,

An oak, 18 ins. in diam., brs. S. 47° E., 178
lks. dist., marked $\frac{1}{4}$ S 6 BT.

An oak, 12 ins. in diam., brs. S. 60° E., 244
lks. dist., marked $\frac{1}{4}$ S 6 BT.

45.39 Descend 20 ft., over NW. slope.
Wash, 10 lks. wide, course N. 35° W.,
Ascend 30 ft., over NE. slope.
47.48 Descend 42 ft., over NW. slope.
50.10 Wash, 30 lks. wide, course NW. Leave rolling and enter
mountainous land.
60.30 Ascend 70 ft., over E. slope, to
Point of spur, slopes NE.
65.17 Ascend 74 ft., over N. slope, to
Head of gulch, course N. 60° E.
76.29 Ascend 217 ft., over NE. slope.
Ridge, brs. N. 20° W. and S. 20° E.
77.40 Descend 10 ft., over SW. slope, to
Intersect the cor. of Ts. 17 and 18 S., Rs. 18 and 19 E.,
hereinbefore described.

Land, rolling and mountainous.
Soil, stony, 3rd rate.
Timber, juniper and oak.
Undergrowth, scrub oak and scrub juniper.
Good grass.

Boundaries of Township 18 South, Range 19 East.

Latitudes, departures, and closing errors.

Line designated.	True course.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
South boundary,	S. 89° 53' W.	119.81		.24		119.81
	West,	39.88				39.88
	S. 89° 55' W.	40.15		.06		40.15
	S. 89° 52' W.	39.84		.09		39.84
	S. 89° 54' W.	39.88		.07		39.88
	S. 89° 50' W.	39.94		.12		39.94
	S. 89° 54' W.	39.90		.07		39.90
	S. 89° 55' W.	39.90		.06		39.90
	S. 89° 52' W.	39.85		.09		39.85
S. 89° 56' W.	39.42		.05		39.42	
West boundary,	N. 1° 4' E.	155.96	155.93		2.91	
	N. 0° 17' W.	321.24	321.24			1.60
North boundary,	S. 89° 59' E.	77.40		.02	77.40	
	N. 89° 26' E.	159.60	1.58		159.59	
	N. 89° 28' E.	239.22	2.23		239.21	
East boundary,	S. 0° 8' E.	80.02		80.02	.18	
	South,	239.91		239.91		
	S. 0° 7' E.	39.86		39.86	.08	
	S. 0° 4' E.	40.25		40.25	.05	
	S. 0° 5' E.	40.04		40.04	.06	
S. 0° 5' W.	40.02		40.02		.06	
Convergency,					.45	
Totals.			480.98	480.97	479.93	480.23
			480.97	480.97		479.93
Error in latitude,			0.01	0.01		
Error in departure,						0.30

Retracement of part of Subdivision lines of T. 18 S., R. 19 E. 35.

Chains.

The fractional subdivision of this township was surveyed in 1904 by J. A. Rockfellow, U.S.D.S., and no retracement or resurvey of any part of such subdivisional survey is of record. The following notes describe a retracement of all of the subdivisional lines.

From the original cor. of secs. 19, 24, 25 and 30, on E. bdy. of Tp., hereinbefore described,
 S. 89° 54' W., on a random line, bet. secs. 24 and 25 (E. ½).
 Over rolling land, thru. scattering undergrowth.
 Ascend 55 ft. over S. slope.
 12.72 Descend 48 ft., over SW. slope.
 19.37 Wash, 20 lks. wide, course SE. Enter mountainous land.
 Ascend 97 ft., over E. slope.
 25.90 Point of spur, slopes NE.
 Descend 25 ft., over NW. slope.
 27.92 Wash, 10 lks. wide, course NE.
 Ascend 22 ft. over E. slope.
 30.70 Point of spur, slopes NE.
 Descend 25 ft., over NW. slope.
 32.90 Fence brs. NE. and SW.
 36.95 Wash, 20 lks. wide, course NE.
 Ascend 43 ft., over SE. slope, to
 39.98 Fall 5 lks. N. of the original ¼ sec. cor. of secs. 24 and 25, which is a granite stone 8x10x4 ins. above ground, firmly set, marked ¼ S on N. face, and witnessed by a mound of stone 2 ft. base, 1½ ft. high, N. of cor.
 No bearing trees.
 True course and dist. of E. ½ of line, bet. secs. 24 and 25 are therefore S. 89° 50' W., 39.98 chs.
 From this cor., U.S.L.M. No. 1 of the Whetstone Mining District, brs. N. 46½° W., 18.04 chs. dist.
 Land, rolling and mountainous.
 Soil, stony, 3rd and 4th rate.
 No timber.
 Undergrowth, greasewood, scrub mesquite and ocotillo.
 Fair grass.

From the original cor. of secs. 13, 18, 19 and 24, on E. bdy. of Tp., hereinbefore described,
 S. 89° 54' W., on a random line, bet. secs. 13 and 24 (E. ½).
 Over rolling land, thru. scattering timber and undergrowth.
 Ascend 150 ft., over SE. slope to ¼ sec. cor.
 5.96 Wash, 10 lks. wide, course SE.
 25.90 Pack trail brs. N. and S.
 39.94 Fall 2 lks. N. of original true point for ¼ sec. cor. of secs. 13 and 24, determined by measuring 30 lks. E. from witness cor. as per record. This point falls in wash, 10 lks. wide, course SE.
 True course and dist. of E. ½ of line, bet. secs. 13 and 24 are therefore, S. 89° 52' W., 39.94 chs.
 From true point for ¼ sec. cor.,
 S. 89° 54' W., on a random line, bet. secs. 13 and 24 (W. ½).
 Over rolling land, thru. scattering timber and undergrowth.
 Ascend slightly over SE. slope, to
 .30 Intersect the original witness cor. to ¼ sec. cor. of secs. 13 and 24, which is a granite stone, 15x12x8 ins. above ground, firmly set, marked WC ¼ S on N. face; and witnessed by two bearing trees as follows:
 An oak 18 ins. in diam., S. 87½° W., 3.00 chs. dist., marked WC ¼ S 24 BT.
 An oak, 12 ins. in diam., N. 61° W., 45 lks. dist., marked WC ¼ S 13 BT.

36 Retracement of part of Subdivision lines of T.18 S., R.19 E.

Chains.

- 1.56 Ascend 12 ft., over SE. slope, to Wash, 10 lks. wide, course SE.
- 12.94 Ascend 40 ft., over SE. slope, to Wash, 10 lks. wide, course SE.
- 20.65 Ascend 30 ft., over SE. slope, to Wash, 30 lks. wide, course S. 65° E.
- 39.80 Ascend 131 ft. over NE. slope, to Wash, 10 lks. wide, course NE.
- 39.94 Ascend slightly over NE. slope, to Fall 3 lks. N. of the original cor. of secs. 13, 14, 23 and 24, which is a granite stone 8x8x6 ins. above ground, firmly set, marked with 1 notch on E. edge, and 3 notches on S. edge, and witnessed by a mound of stone, W. of cor., and three bearing trees, as follows:
- An oak, 10 ins. in diam., N. 43° E., 78 lks. dist., marked T18S R19E S13 BT.
- An oak, 10 ins. in diam., S. 44½° W., 1.20 chs. dist., marked T18S R19E S23 BT.
- An oak, 10 ins. in diam., N. 77½° W., 56 lks. dist., marked T18S R19E S14 BT.
- True course and dist. of W. ½ of line, bet. secs. 13 and 24, are therefore S. 89° 52' W., 39.94 chs.
- Land, rolling.
Soil, gravelly and stony, 3rd rate.
Timber, oak.
Undergrowth, greasewood, scrub oak and cactae.
Good grass.
-
- N. 0° 1' W., on a random line, bet. secs. 13 and 14, (S. ½).
Over rolling land, thru. scattering timber and undergrowth.
- 2.75 Descend 17 ft. over NE. slope, to Wash, 10 lks. wide, course N. 30° E.
- 2.81 Descend slightly over E. slope, to Wash, 20 lks. wide, course S. 60° E.
- 7.43 Ascend gradually over SE. slope, to Wash, 20 lks. wide, course S. 70° E.
- 10.00 Ascend 25 ft., over SW. slope.
Rim of bench, brs. N. 70° W. and S. 70° E. Thence over nearly level surface of bench.
- 25.00 Rim of bench, brs. NE. and SW. Leave nearly level bench.
Enter rolling land.
- 37.02 Descend 30 ft., over NW. slope.
Wash, 30 lks. wide, course N. 70° E.
- 40.00 Ascend 21 ft., over SE. slope, to Fall 1 lk. W. of the original ¼ sec. cor. of secs. 13 and 14, which is a granite stone 8x8x5 ins. above ground, firmly set, marked ¼ S on W. face, and witnessed by a mound of stone, W. of cor., and one bearing tree as follows:
- An oak, 18 ins. in diam., N. 72½° W., 1.98 chs. dist., marked ¼ S 14 BT.
- True course and dist. of S. ½ of line, bet. secs. 13 and 14 are therefore, North, 40.00 chs.
- Thence,
N. 0° 1' W., on a random line, bet. secs. 13 and 14 (N. ½).
Over rolling land, thru. scattering timber and undergrowth.
- 1.26 Ascend 8 ft., over SE. slope.
Spur, slopes NE.
- 5.64 Descend 60 ft., over N. slope.
Wash, 10 lks. wide, course N. 50° E.
- 12.82 Ascend 33 ft., over SE. slope.
Spur, slopes NE.
- 23.63 Descend 51 ft., over N. slope.
Wash, 20 lks. wide, course N. 65° E.
- 26.80 Ascend 30 ft., over SE. slope.
Spur, slopes NE.
- 33.21 Descend 35 ft., over NW. slope.
Wash, 10 lks. wide, course N. 70° E.

Retracement of part of Subdivision lines of T.18 S., R.19 E. 37

Chains.

Ascend 17 ft., over SE. slope.
 34.99 Spur, slopes N.60°E.
 Descend 18 ft., over N. slope, to
 39.97 Fall 5 lks.W. of the original cor. of secs.11,12,13 and 14, which is a granite stone 15x8x8 ins. above ground, firmly set, marked with 1 notch on E. edge, and 4 notches on S. edge, witnessed by a mound of stone W. of cor., and four bearing trees as follows:
 An oak, 14 ins. in diam., N.57½°E., 30 lks. dist., marked T18S R19E S12 BT.
 An oak, 12 ins. in diam., S.75½°E., 50 lks. dist., marked T18S R19E S13 BT.
 An oak, 16 ins. in diam., S.80½°W., 41 lks. dist., marked T18S R19E S14 BT.
 An oak, 10 ins. in diam., N.54½°W., 43 lks. dist., marked T18S R19E S11 BT.
 True course and dist. of N. ½ of line, bet. secs.13 and 14 are therefore, N.0°3'E., 39.97 chs.
 Land, rolling.
 Soil, stony, 3rd rate.
 Timber, oak.
 Undergrowth, scrub oak and greasewood.
 Good grass.

From the original cor. of secs.7,12,13 and 18, on E. bdy. of Tp., hereinbefore described,
 S.89°54'W., on a random line, bet. secs.12 and 13 (E. ½).
 Over rolling land, thru. scattering timber and undergrowth.
 Ascend gradually over NE. slope to ¼ sec. cor.
 4.00 Wash, 60 lks. wide, course N.80°E.
 24.99 Wash, 10 lks. wide, course NE.
 38.00 Wash, 20 lks. wide, course NE.
 39.84 Fall 8 lks.N. of the original ¼ sec. cor. of secs.12 and 13, which is a granite stone 10x10x6 ins. above ground, firmly set, marked ¼ S on N. face, and witnessed by a mound of stone, N. of cor., and one bearing tree as follows: An oak, 16 ins. in diam., N.48½°W., 1.75 chs. dist. marked ¼ S 12 BT.
 True course & dist. of E. ½ of line, bet. secs.12 and 13 are therefore, S.89°47'W., 39.84 chs. Thence S.89°54'W., on random line, bet. secs.12 and 13 (W. ½).
 Over rolling land, thru. scattering timber and undergrowth.
 Ascend 90 ft., over NE. slope to sec. cor.
 2.10 Wash, 20 lks. wide, course NE.
 8.68 Wash, 10 lks. wide, course NE.
 17.16 Wash, 10 lks. wide, course NE.
 32.63 Wash, 10 lks. wide, course NE.
 40.02 Fall 9 lks.N. of the original cor. of secs.11,12,13 and 14, hereinbefore described.
 True course and dist. of W. ½ of line, bet. secs.12 and 13, are therefore, S.89°46'W., 40.02 chs.
 Land, rolling.
 Soil, sandy and gravelly, 3rd rate.
 Timber, oak.
 Undergrowth, greasewood and scrub oak.
 Good grass.

N.0°1'W., on a random line, bet. secs.11 and 12 (S. ½).
 Over rolling land, thru. scattering timber and undergrowth.
 Descend 14 ft., over N. slope.
 .56 Wash, 20 lks. wide, course NE.
 Descend 11 ft., over NE. slope, to
 10.68 Wash, 10 lks. wide, course NE.
 Ascend 39 ft., over SE. slope.
 13.99 Descend 34 ft., over NE. slope, to

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Chains.	
18.96	Head of wash, course NE. Ascend 11 ft., over SE. slope.
21.36	Spur, slopes NE. Descend 23 ft., over NW. slope.
26.40	Ascend 23 ft., over W. slope, to
30.90	Descend slightly over W. slope, to
33.84	Head of wash, course N. 30° W. Descend slightly over W. slope, to
35.84	Point of spur, slopes NW. Descend 62 ft., over N. slope, to
40.02	Fall 10 lks. W. of the original $\frac{1}{4}$ sec. cor. of secs. 11 and 12, which is a granite stone 8x8x6 ins. above ground, firmly set, marked $\frac{1}{4}$ S on W. face, and witnessed by a mound of stone, W. of cor. No bearing trees. True course and dist. of S. $\frac{1}{2}$ of line, bet. secs. 11 and 12 are therefore, N. 0° 9' E., 40.02 chs. Land, rolling. Soil, stony, 3rd rate. Timber, oak. Undergrowth, greasewood and scrub oak. Fair grass.

	From the original cor. of secs. 11, 12, 13 and 14, S. 89° 54' W., on a random line, bet. secs. 11 and 14 (E. $\frac{1}{2}$). Over rolling land, thru. scattering timber and under- growth.
.71	Descend slightly over N. slope, to Wash, 20 lks. wide, course NE. Ascend 35 ft., over NE. slope, to
12.17	Wash, 10 lks. wide, course NE. Ascend 10 ft., over NE. slope, to
20.50	Wash, 20 lks. wide, course NE. Leave rolling and enter mountainous land. Ascend 73 ft., over E. slope, to
26.90	Point of short spur, slopes SE. Descend 11 ft., over S. slope, to
27.68	Wash, 10 lks. wide, course SE, near head. Ascend 81 ft., over SE. slope, to
30.86	Spur, slopes NE. Descend 95 ft., over NW. slope.
36.60	Wash, 10 lks. wide, course NE. Ascend 37 ft., over NE. slope, to
40.15	Fall 6 lks. N. of the original $\frac{1}{4}$ sec. cor. of secs. 11 and 14, which is a granite stone 5x4x4 ins. above ground, firmly set, marked $\frac{1}{4}$ S on N. face, witnessed by a mound of stone N. of cor., and one bearing tree as follows: An oak, 15 ins. in diam., S. 38 $\frac{1}{2}$ ° W., 52 lks. dist., marked $\frac{1}{4}$ S 14 ft. True course and dist. of E. $\frac{1}{2}$ of line, bet. secs. 11 and 14 are therefore, S. 89° 49' W., 40.15 chs. Thence, S. 89° 54' W., on a random line, bet. secs. 11 and 14 (W. $\frac{1}{2}$). Over mountainous land, thru. scattering timber and under- growth.
3.89	Ascend slightly over NE. slope. Descend 20 ft., over NW. slope.
6.41	Wash, 10 lks. wide, in gulch, 20 ft. deep, course NE. Ascend slightly over NE. slope to
10.09	Wash, 20 lks. wide, in gulch, 18 ft. deep, course NE. Ascend 162 ft., over SE. slope.
22.38	Saddle in ridge, brs. NE. and SW. Descend 80 ft., over NW. slope.
27.55	Wash, 20 lks. wide, course N. 30° W. Ascend 135 ft., over NE. slope.
36.31	Point of spur, slopes NW. Descend 108 ft., over W. slope, to
39.94	Fall 1 lk. N. of the original cor. of secs. 10, 11, 14 and 15,

Retracement of part of Subdivision lines of T.18 S. R.19 E. 39

Chains.

which is a granite stone 10x8x4 ins. above ground, firmly set, marked with two notches on E. and 4 notches on S. edge, witnessed by a mound of stone, W. of cor., and four bearing trees, as follows:

- An oak, 16 ins. in diam., N. 40 $\frac{1}{2}$ ° E., 59 lks. dist., marked T18S R19E S11 BT.
- An oak, 12 ins. in diam., S. 23 $\frac{3}{4}$ ° E., 24 lks. dist., marked T18S R19E S14 BT.
- An oak, 14 ins. in diam., S. 82 $\frac{3}{4}$ ° W., 45 lks. dist. marked T18S R19E S15 BT.
- An oak, 12 ins. in diam., N. 50 $\frac{1}{2}$ ° W., 48 lks. dist., marked T18S R19E S10 BT.

True course and dist. of W. $\frac{1}{2}$ of line, bet. secs. 11 and 14 are therefore, S. 89° 53' W., 39.94 chs.

Land, rolling and mountainous.

Soil, stony, 3rd and 4th rate.

Timber, oak.

Undergrowth, scrub oak.

Good grass.

 N. 0° 1' W., on a random line, bet. secs. 10 and 11 (S. $\frac{1}{2}$).
 Over mountainous land, thru. scattering timber and undergrowth.

- 5.66 Descend 67 ft., over NW. slope, to Wash, 20 lks. wide, course NW.
- 15.37 Descend 36 ft., over NW. slope, to Wash, 10 lks. wide, course NW.
- 27.31 Descend 35 ft., over NW. slope, to Wash, 10 lks. wide, course NW.
- 32.89 Ascend 29 ft., over SW. slope. Pack trail brs. NW. and SE.
- 35.62 Descend 22 ft. over NW. slope. Wash, 10 lks. wide, course NW.
- 40.06 Ascend 46 ft., over SW. slope, to Fall 4 lks. E. of the original $\frac{1}{4}$ sec. cor. of secs. 10 and 11, which is a granite stone 8x8x6 ins. above ground, firmly set, marked $\frac{1}{4}$ S on W. face, and witnessed by a mound of stone W. of cor., and two bearing trees, as follows:

- An oak, 9 ins. in diam., N. 43 $\frac{1}{4}$ ° W., 13 lks. dist., marked $\frac{1}{4}$ S 10 BT.
- An oak, 10 ins. in diam., N. 71° E., 12 lks. dist., marked $\frac{1}{4}$ S 11 BT.

True course and dist. of S. $\frac{1}{2}$ of line, bet. secs. 10 and 11 are therefore N. 0° 4' W., 40.06 chs.

Thence,

N. 0° 01' W., on a random line, bet. secs. 10 and 11 (N. $\frac{1}{2}$).

Over mountainous land, thru. scattering timber and undergrowth.

- 6.13 Ascend 128 ft., over SW. slope. Spur, slopes NW.
- 17.69 Descend 229 ft., over NE. slope. Wash, 10 lks. wide, course NW.
- 21.67 Ascend 23 ft. over W. slope. Point of spur, slopes NW.
- 28.74 Descend 103 ft., over N. slope. Wash, 25 lks. wide, course NE.
- 34.28 Ascend 48 ft., over SE. slope. Descend 50 ft., over NE. slope, to
- 40.02 Fall 1 lk. E. of the original cor. of secs. 2, 3, 10 and 11, which is a granite stone, 12x9x6 ins. above ground, firmly set, marked with 2 notches on E. edge, and 5 notches on S. edge, and witnessed by a mound of stone, W. of cor., and four bearing trees as follows:
- An oak, 10 ins. in diam., N. 40 $\frac{1}{2}$ ° E., 77 lks. dist., marked T18S R19E S 2 BT.
- An oak, 14 ins. in diam., S. 22° E., 68 lks. dist., marked T18S R19E S11 BT.

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Chains.

An oak, 14 ins. in diam., S. 37° W., 60 lks.
dist., marked T18S R19E S10 BT.

An oak, 16 ins. in diam., N. 57½° W., 23 lks.
dist.; marked T18S R19E S3 BT:

True course and dist. of N. ½ of line, bet. secs. 10 and 11
are therefore N. 0° 2' W., 40.92 chs.

Land, mountainous. Soil, stony, 3rd and 4th rate.

Timber, oak. Undergrowth, scrub oak and manzanita.
Good grass.

From cor. of secs. 10, 11, 14 and 15,
S. 89° 55' W., on a random line, bet. secs. 10 and 15 (E. ½).
Over mountainous land, thru. scattering timber and under-
growth.

- .81 Descend 22 ft., over W. slope.
Wash, 10 lks. wide, course NW.
Ascend 148 ft., over NE. slope.
- 9.31 Spur, slopes NW.
Descend 40 ft., over W. slope.
- 13.25 Wash, 20 lks. wide, course NW.
Ascend 282 ft., over NE. slope.
- 29.69 Spur, slopes N. 15° W.
Descend 105 ft., over W. slope.
- 38.92 Wash, 20 lks. wide, in gulch, course NW.
Ascend 27 ft., over NE. slope, to
- 39.98 Fall 4 lks. N. of the original ¼ sec. cor. of secs. 10 and
15, which is a granite boulder in place, exposed
12x6x4 ins. above ground, marked with a cross (x) at
exact cor. point and ½ N. of cross, and witnessed by
a mound of stone, N. of cor. and two bearing trees
as follows:

An oak, 18 ins. in diam., S. 14½° E., 33 lks.
dist., marked ¼ S 15 BT.

An oak, 18 ins. in diam., N. 58° W., 54 lks.
dist., marked ¼ S 10 BT:

True course and dist. of E. ½ of line, bet. secs. 10 and
15, are therefore, S. 89° 52' W., 39.98 chs.

Thence,

S. 89° 55' W., on a random line, bet. secs. 10 and 15 (W. ½).
Over mountainous land, thru. scattering timber and under-
growth.

- 7.58 Ascend 77 ft., over NE. slope.
Ridge brs. N. 20° W. and S. 20° E.
Descend 179 ft., over W. slope.
- 19.15 Wire fence, brs. N. and S.
- 20.48 Wash, 20 lks. wide, in gulch, course N. 15° W.
Ascend 13 ft., over NE. slope.
- 21.15 Descend 30 ft., over W. slope.
- 24.07 Wash, 20 lks. wide, course N. 20° W.
Ascend 66 ft., over NE. slope.
- 31.40 Descend 18 ft., over NW. slope.
- 37.30 Wash, 10 lks. wide, course NE.
Ascend 12 ft., over NE. slope, to sec. cor.
- 39.25 Wire fence, brs. N. 1° E. and S. ½° W.
- 39.40 Old road, brs. NW and SE.
- 40.00 Fall 3 lks. N. of the original cor. of secs. 9, 10, 15 and 16,
which is a granite stone 8x8x8 ins. above ground,
firmly set, marked with 3 notches on E. edge, and 4
notches on S. edge, and witnessed by a mound of stone,
W. of cor., and four bearing trees; as follows:

An oak, 18 ins. in diam., N. 4½° E., 18 lks. dist.,
marked T18S R19E S10 BT.

An oak, 18 ins. in diam., S. 31½° E., 62 lks. dist.,
marked T18S R19E S15 BT.

An oak, 14 ins. in diam., S. 51½° W., 73 lks. dist.,
marked T18S R19E S16 BT.

An oak, 12 ins. in diam., N. 76½° W., 31 lks. dist.,
marked T18S R19E S9 BT.

Retracement of part of Subdivision lines of T.18 S., R.19 E. 41

Chains.

True course and dist. of W. $\frac{1}{2}$ of line, bet. secs. 10 and 15, are therefore, S. 89° 53' W., 49.90 chs.

Land, mountainous.
Soil, stony, 4th rate.
Timber, oak and juniper.
Undergrowth, scrub juniper, scrub oak and manzanita.
Good grass.

S. 89° 54' W., on a random line, bet. secs. 9 and 16 (E. $\frac{1}{2}$).
Over mountainous land, thru. dense timber and undergrowth.
Ascend 10 ft., over NE. slope.
2.90 Spur, slopes N.
Descend 31 ft., over W. slope.
4.44 Wash, 10 lks. wide, course N. 10° W.
Ascend 32 ft. over NE. slope.
8.40 Descend 22 ft., over NW. slope.
11.68 Wash, 50 lks. wide, course N. 29° W.
Ascend 52 ft., over E. slope, to
17.83 Point of spur, slopes NE.
Ascend slightly over N. slope, to
20.33 Head of wash, course N. 25° E.
Ascend 37 ft., over NE. slope.
23.40 Descend 25 ft., over NW. slope.
25.36 Wash, 10 lks. wide, course N. 25° E.
Ascend 25 ft., over E. slope.
27.60 Wire fence brs. N. 25° E. and S. 25° W.
27.80 Descend 16 ft., over NW. slope.
28.77 Wash, 20 lks. wide, course N. 30° E.
Ascend 170 ft., over E. slope, to
39.90 Spur, slopes N. Fall 10 lks. N. of the original $\frac{1}{4}$ sec. cor. of secs. 9 and 16, which is a granite stone 6x4x4 ins. above ground, firmly set, marked $\frac{1}{4}$ S on N. face, and witnessed by a mound of stone, N. of cor., and two bearing trees as follows:

An oak, 13 ins. in diam., N. 32 $\frac{1}{4}$ ° E., 12 lks. dist., marked $\frac{1}{4}$ S 9 BT.

An oak, 12 ins. in diam., S. 65° E., 53 lks. dist., marked $\frac{1}{4}$ S 16 BT.

True course and dist. of E. $\frac{1}{2}$ of line, bet. secs. 9 and 16, are therefore, S. 89° 45' W., 39.90 chs.

Land, mountainous.
Soil, stony, 4th rate.
Timber, juniper and oak.
Undergrowth, scrub oak, scrub juniper and manzanita.
Good grass.

From cor. of secs. 9, 10, 15 and 16,
N. 0° 2' W., on a random line, bet. secs. 9 and 10 (S. $\frac{1}{2}$).
Over mountainous land, thru. dense timber and undergrowth,
about 75 lks. W. of wire fence, bearing northerly and southerly.
Descend 140 ft., over NE. slope.
1.18 Old road, brs. SE. and NW.
21.13 Head of wash; course NE.
Ascend 21 ft., over SE. slope.
34.11 Descend 74 ft., over NE. slope, to
39.98 Fall 6 lks. E. of the original $\frac{1}{4}$ sec. cor. of secs. 9 and 10, which is a granite stone, 6x6x6 ins. above ground, firmly set, marked $\frac{1}{4}$ S on W. face; witnessed by a mound of stone, W. of cor., and two bearing trees as follows:
An oak, 14 ins. in diam., S. 81 $\frac{1}{4}$ ° W., 62 lks. dist., marked $\frac{1}{4}$ S 9 BT.
An oak, 18 ins. in diam., S. 26 $\frac{1}{2}$ ° E., 59 lks. dist., marked $\frac{1}{4}$ S 10 BT.

This $\frac{1}{4}$ sec. cor. is at fence cor., from which fences extend

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Chains.

	westerly and southerly. True course and dist. of S. $\frac{1}{2}$ of line, bet. secs. 9 and 10 are therefore, N. $0^{\circ}7'W.$, 39.98 chs. Thence, N. $0^{\circ}2'W.$, on a random line, bet. secs. 9 and 10 (N. $\frac{1}{2}$). Over mountainous land, thru. dense timber and undergrowth. Ascend 17 ft., over E. slope.
3.69	Descend 30 ft., over E. slope, to
18.68	Spur, slopes NE. Descend 16 ft., over NW. slope.
23.57	Old road, brs. NE. and SW.
26.37	Head of wash, course SW. Ascend.
31.37	Spur, slopes W. Descend 126 ft., over N. slope to sec. cor.
36.04	Wire fence, brs. E. and W.
39.92	Fall 5 lks. E. of the original cor. of secs. 3, 4, 9 and 10, which is a granite stone 6x6x5 ins. above ground, firmly set, marked with 3 notches on E. edge and 5 notches on S. edge, and witnessed by a mound of stone, W. of cor., and four bearing trees, as follows: An oak, 10 ins. in diam., N. $30\frac{1}{2}^{\circ}E.$, 91 lks. dist., marked T18S R19E S 3 BT. An oak, 14 ins. in diam., S. $47\frac{1}{2}^{\circ}E.$, 142 lks. dist., marked T18S R19E S10 BT. An oak, 12 ins. in diam., S. $51^{\circ}W.$, 89 lks. dist., marked T18S R19E S9 BT. An oak, 18 ins. in diam., N. $76^{\circ}W.$, 162 lks. dist., marked T18S R19E S4 BT. True course and dist. of N. $\frac{1}{2}$ of line, bet. secs. 9 and 10, are therefore, N. $0^{\circ}6'W.$, 39.92 chs. Land, mountainous. Soil, stony, 3rd rate. Timber, oak and juniper. Undergrowth, scrub oak and manzanita, Fair grass.

	N. $89^{\circ}54'E.$, on a random line, bet. secs. 3 and 10 (W. $\frac{1}{2}$). Over mountainous land, thru. scattering timber and undergrowth. Ascend slightly over N. slope, to
2.00	Wash, 10 lks. wide, course N. $15^{\circ}W.$ Ascend 35 ft., over NW. slope.
7.58	Descend 74 ft., over NE. slope.
12.88	Road from Benson, Arizona to Old Forest Ranger Station, brs. NE. and SW.
20.56	Water tank and stock watering troughs.
20.85	Wash, 50 lks. wide, course N. $10^{\circ}W.$ Enter rolling land. Ascend 42 ft., over NW. slope.
21.95	NW. cor. of corral, 100 ft. square.
26.15	Wire fence, brs. N. $80^{\circ}E.$ and S. $85^{\circ}W.$
28.24	Descend 34 ft., over NE. slope, to
35.11	Wash, 10 lks. wide, course NE. Descend 15 ft., over NE. slope, to
37.00	Wash, 10 lks. wide, course N. $50^{\circ}E.$ Ascend 15 ft., over NW. slope, to
39.99	Fall 4 lks. S. of the original $\frac{1}{4}$ sec. cor. of secs. 3 and 10, which is a granite stone 12x6x6 ins. above ground, firmly set, marked $\frac{1}{4}$ S on N. face, and witnessed by two bearing trees as follows: An oak, 12 ins. in diam., N. $30\frac{1}{2}^{\circ}E.$, 63 lks. dist., marked $\frac{1}{4}$ S 3 BT. An oak, 14 ins. in diam., S. $11\frac{1}{2}^{\circ}E.$, 103 lks. dist., marked $\frac{1}{4}$ S 10 BT. True course and dist. of W. $\frac{1}{2}$ of line, bet. secs. 3 and 10, are therefore, S. $89^{\circ}51'W.$, 39.99 chs. Thence,

Retracement of part of Subdivision lines of T.18 S. R.19 E. 43

Chains.

N.89°54'E., on a random line, bet. secs.3 and 10 (E. $\frac{1}{2}$).
 Over rolling land, thru. scattering timber and undergrowth.
 Ascend slightly over N. slope, to
 2.50 Descend 33 ft., over NE. slope.
 3.80 Wire fence, brs. NW and SE.
 8.58 Wash, 15 lks. wide, course N.40°E.
 Ascend 26 ft., over NW. slope.
 14.30 Descend 52 ft., over NE. slope.
 17.71 Wash, 20 lks. wide, course, N.39°W. Enter mountainous land.
 Ascend 96 ft., over W. slope.
 22.43 Spur, slopes NW.
 Descend 110 ft., over NE. slope.
 32:37 Wash, 10 lks. wide, course N.15°W.
 Ascend 38 ft., over W. slope.
 38.35 Spur, slopes N.
 Descend 17 ft., over E. slope, to
 39.94 Fall 4 lks. S of the original cor. of secs. 2, 3, 10 and 11,
 hereinbefore described.
 True course and dist. of E. $\frac{1}{2}$ of line, bet. secs. 3 and
 10 are therefore, S.89°51'W., 39.94 chs.
 Land, mountainous, and rolling.
 Soil, stony, 3rd rate.
 Timber, oak and mesquite.
 Undergrowth, scrub mesquite, scrub oak and manzanita.
 Good grass.

From cor. of secs. 3, 4, 9 and 10.
 S.89°54'W., on a random line, bet. secs. 4 and 9, (E. $\frac{1}{2}$).
 Over mountainous land, thru. scattering timber and under-
 growth.
 Descend 33 ft., over N. slope.
 7.90 Wire fence, brs. N.80°W. and S.80°E.
 15.83 Wash, 20 lks. wide, course N.25°E.
 Ascend 29 ft., over NE. slope, to
 18.30 Head of wash, course NE.
 Ascend 23 ft., over NE. slope.
 25.60 Spur, slopes NW.
 Descend 65 ft., over SW. slope.
 32.17 Wash, 30 lks. wide, course N.60°W. Enter rolling land. Wire
 fence, brs. NE and SW.
 Ascend 36 ft., over NE. slope.
 35.38 Descend 34 ft., over NW. slope.
 39.31 Wash, 10 lks. wide, course N.30°W.
 Ascend slightly over NE. slope, to
 39.92 Fall 12 lks. N. of the original $\frac{1}{4}$ sec. cor. of secs. 4 and 9,
 which is a granite stone, 12x6x6 ins. above ground,
 firmly set, marked $\frac{1}{4}$ S on N. face, and witnessed by a
 mound of stone, N. of cor. and two bearing trees, as
 follows:
 An oak, 11 ins. in diam., S.60°W., 34 lks.
 dist., marked $\frac{1}{4}$ S 9 BT.
 An oak, 12 ins. in diam., N.45°E., 5 lks.
 dist., marked $\frac{1}{4}$ S 4 BT.
 True course and dist. of E. $\frac{1}{2}$ of line, bet. secs. 4 and 9
 are therefore, S.89°44'W., 39.92 chs.
 Land, mountainous and rolling.
 Soil, stony, 3rd rate.
 Timber, oak and mesquite.
 Undergrowth, manzanita, scrub oak and mesquite.
 Fair grass.

From cor. of secs. 3, 4, 9 and 10,
 N.9°15'E., on a random line, bet. secs. 3 and 4, (S. $\frac{1}{2}$).
 Over mountainous land, thru. scattering timber and under-
 growth.

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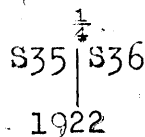
Chains.

- Descend 43 ft., over N. slope.
- 12.13 Wash, 20 lks. wide, course N. 30° E. Enter rolling land.
Descend gradually over NE. slope to $\frac{1}{4}$ sec. cor.
- 14.90 Wash, 15 lks. wide, course NE.
- 21.30 Wash, 10 lks. wide, course NE.
- 39.90 Fall 1 lk. W. of the original $\frac{1}{4}$ sec. cor. of secs. 3 and 4, which is a granite stone 6x6x4 ins. above ground, firmly set, marked $\frac{1}{4}$ S on W. face, and witnessed by a mound of earth W. of cor., and two bearing trees as follows:
- An oak, 16 ins. in diam., S. 16° W., 23 lks. dist., marked $\frac{1}{4}$ S 4 BT.
- A mesquite, 10 ins. in diam., S. 80 $\frac{1}{4}$ ° E., 255 lks. dist., marked $\frac{1}{4}$ S 3 BT.
- True course and dist. of S. $\frac{1}{2}$ of line, bet. secs. 3 and 4 are therefore, S. 0° 16' W., 39.90 chs.
- Thence, N. 0° 15' E., on a random line, bet. secs. 3 and 4 (N. $\frac{1}{2}$).
Over rolling land, thru. scattering timber and undergrowth.
Descend gradually over NE. slope.
- .81 Wash, 10 lks. wide, course NE.
- 13.41 Wash, 10 lks. wide, course NE.
- Ascend 30 ft., over SE. slope.
- 31.61 Spur, slopes NE.
- Descend 23 ft., over NW. slope, to
- 38.80 Fall 1 lk. W. of the cor. of secs. 3, 4, 33 and 34, on N. bdy. of the Tp., hereinbefore described.
True course and dist. of N. $\frac{1}{2}$ of line, bet. secs. 3 and 4, are therefore, S. 0° 16' W., 38.80 chs.
- Land, mountainous and rolling.
Soil, stony, 3rd rate.
Timber, mesquite and oak.
Undergrowth, scrub oak.
Good grass.
-

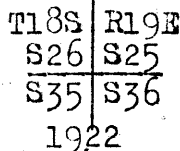
Survey of part (completion) of Subdivision lines of T.18 S. R.19 E. 45

Chains.

- From the cor. of secs. 35 and 36, on S. bdy. of Tp., hereinbefore described,
N.0°01'W., bet. secs. 35 and 36.
- Over rolling land, thru. scattering timber and undergrowth, nearly parallel to wire fence, 25 lks. W. of line.
- 2.69 Descend 16 ft. over NW. slope.
Wash, 30 lks. wide, course N.65°E. Leave timber brs. NE. and SW.
- 7.60 Ascend 10 ft., over SE. slope, to
Wash, 15 lks. wide, course S.60°E.
- 15.55 Ascend 63 ft., over SW. slope, to
Rim of bench, brs. NW. and SE. Thence over nearly level land, sloping slightly to the SE.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 27 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,



- No bearing trees available. Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
- Continue over nearly level surface of bench, parallel to fence about 25 lks. W. of line.
- 48.30 Rim of bench, brs. NW. and SE. Leave bench; enter rolling land.
- 51.67 Descend 32 ft., over NE. slope.
Wash, 30 lks. wide, course S.50°E.; ascend 57 ft., over S. slope.
- 59.87 Spur, slopes SE.
- 64.60 Descend 50 ft., over NE. slope.
Wash, 10 lks. wide, course NE.
- 67.16 Ascend 34 ft., over S. slope.
Spur, slopes SE.
- 72.72 Descend 26 ft., over NE. slope.
Wash, 20 lks. wide, course S.50°E.
- 77.06 Ascend 16 ft., over S. slope.
Spur, slopes S.70°E.
- 79.75 Descend 14 ft., over NE. slope, to sec. cor.
Wire fence, brs. E. and W. Fence cor. brs. W. about 25 lks. dist., from which fences extend W., E. and S.
- 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 27 ins. in the ground, for cor. of secs. 25, 26, 35 and 36, marked on brass cap,



No bearing trees available. Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
Land rolling and nearly level.
Soil, stony, 3rd rate.
Timber, mesquite, and catclaw.
Undergrowth, scrub mesquite, scrub catclaw and cactae.
Good grass.

- 40.00 N.39°54'E., on a random line, bet. secs. 25 and 36.
Set temp. $\frac{1}{4}$ sec. cor.
- 79.86 Intersect E. bdy. of the Tp., 7 lks. S. of the original cor. of secs. 25, 30, 31 and 36, hereinbefore described.
Thence,
S.89°51'W., on true line, bet. secs. 25 and 36.

BOOK 3649

46. Survey of part (completion) of Subdivision lines of T. 18 S. R. 10 E.

Chains.

- Over nearly level land, sloping slightly to the SE., thru. very scattering timber and scattering undergrowth, nearly parallel to wire fence about 25 lks. S. of line.
- 1.17 Wash, 20 lks. wide, course S. 70° E.
- 22.86 Wash, 20 lks. wide, course S. 60° E.
- 38.16 Wash, 20 lks. wide, course S. 65° E.
- 39.93 Set an iron post, 3 ft. long, 1 in. in diam., 27 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$ S 25
 S 36
 1922

- No bearing trees available. Raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
- Leave nearly level, enter rolling land. Continue nearly parallel to wire fence, about 25 lks. S. of line.
- Ascend 83 ft., over NE. slope, to
- 51.86 Rim of bench, brs. NW. and SE. Thence over nearly level surface of bench.
- 76.90 Foot of slope from spur, brs. NW. and SE. Leave bench. Enter rolling land.
- Ascend 10 ft., over NE. slope, to
- 79.86 The cor. of secs. 25, 26, 35 and 36. Land, nearly level and rolling. Soil, stony, 3rd. rate. Timber, mesquite and catclaw. Undergrowth, scrub mesquite and cactus. Good grass.

-
- From the cor. of secs. 23, 24, 25 and 26, established at 80.00 chs. S. of the original cor. of secs. 13, 14, 23 and 24, as hereinafter described,
 - S. 0° 1' E., on a random line, bet. secs. 25 and 26.
 - 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 - 80.02 Fall 19 lks. W. of the cor. of secs. 25, 26, 35 and 36. Thence, N. 0° 9' W., on a true line, bet. secs. 25 and 26. Over rolling land, thru. very scattering timber and scattering undergrowth.
 - Descend 32 ft., over NE. slope.
 - 3.97 Wash, 10 lks. wide, course E.
 - Ascend 38 ft., over SE. slope.
 - 10.00 Descend 14 ft., over NE. slope.
 - 13.76 Wash, 10 lks. wide, course S. 70° E. Leave rolling, and enter mountainous land.
 - Ascend 59 ft., over S. slope.
 - 21.10 Spur, slopes S. 55° E.
 - Descend 22 ft., over NE. slope.
 - 23.50 Wash, 10 lks. wide, course S. 60° E.
 - Ascend 203 ft., over S. slope.
 - 31.01 Spur, slopes S. 70° E.
 - Descend 181 ft. over N. slope, to
 - 40.01 Set an iron post, 3 ft. long, 1 in. in diam., 15 ins. in the ground to bed rock, deposit a stone marked with a cross (x) at base of post, and raise a mound of stone around post, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$
 S 26 | S 25
 1922

- No bearing trees available.
- Descend 8 ft., over N. slope, to
- 40.60 Wash, 10 lks. wide, course NE.
- Descend 55 ft., over NW. slope, to
- 50.78 Wash, 40 lks. wide, course S. 50° E. in bottom of Pennsylvania

Survey of part (completion) of Subdivision Lines of T.18 S., R.19 E.

Chains Canyon.
 Ascend 126 ft. over S. slope to
 57.52 Point of spur, slopes SE.
 Asc. 32 ft. over E. slope to
 59.35 Wash, 20 lks. wide, course SE.
 Asc. 409 ft. over SW. slope.
 70.28 Spur, slopes S.50°E.
 Desc. 195 ft. over NE. slope.
 76.46 Wash, 20 lks. wide, in gulch, course S.60°E.
 Asc. 73 ft. over S. slope to
 80.02 (80.00 chs. S. from the original cor. of secs. 13, 14,
 23 and 24) Set an iron post, 3 ft. long, 2 ins. diam.,
 15 ins. in the ground to bed rock, deposit a stone,
 marked with a cross (X) at base of post, and raise a
 mound of stone around post, for cor. of secs. 23, 24,
 25 and 26, marked on brass cap

T18S	R19E
S 23	S 24
S 26	S 25
1922	

No bearing trees available.
 Land; rolling and mountainous.
 Soil; stony, 3rd. and 4th. rates.
 Timber; mesquite and oak.
 Undergrowth; greasewood and scrub mesquite.
 Good grass.

40.08 From the cor. of secs. 23, 24, 25 and 26,
 East, on a random line, bet. secs. 24 and 25 (W. $\frac{1}{2}$)
 Fall 9 lks. S. of the original $\frac{1}{4}$ sec. cor. of sec. 24 and
 25, hereinbefore described.

Thence
 S.89°52'W., on a true line bet. secs. 24 and 25 (W. $\frac{1}{2}$)
 Over mountainous land, through very scattering timber
 and scattering undergrowth.

15.61 Ascend 415 ft. over E. slope.
 Point of spur, slopes S.40°E.
 17.71 Descend 10 ft. over SW. slope to
 Head of gulch, course S.40°E.

22.56 Ascend 80 ft. over NE. slope to
 Spur, slopes SE.
 40.08 Ascend 85 ft. over S. slope to
 Intersect the cor. of secs. 23, 24, 25 and 26, hereinbe-
 fore described.

Land; mountainous.
 Soil; stony, 3rd. and 4th. rates.
 Timber; mesquite and oak.
 Undergrowth; greasewood and ocotillo.
 Good grass.

From the original cor. of secs. 13, 14, 23 and 24, here-
 inbefore described,
 South, on a true line bet. secs. 23 and 24.
 Over mountainous land, through scattering timber and
 undergrowth.

.10 Asc. slightly over NE. slope to
 Wash, 10 lks. wide, course NE.
 11.07 Asc. 40 ft. over NE. slope to
 Wash, 10 lks. wide, course N.70°E.
 Asc. 18 ft. over N. slope.
 13.65 Descend 19 ft. over SE. slope.
 21.94 Wash, 10 lks. wide, course NE.
 Ascend 24 ft. over NE. slope.
 28.70 Descend 24 ft. over SE. slope.
 34.19 Wash, 40 lks. wide, course S.70°E.
 Ascend 20 ft. over NE. slope.
 36.65 Descend 32 ft. over SE. slope to
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in

Survey of part (completion) of Subdivision lines of T.18 S., R.19 E.

Chains

the ground for $\frac{1}{4}$ sec. cor. marked on brass cap

S 23 $\frac{1}{4}$ S 24

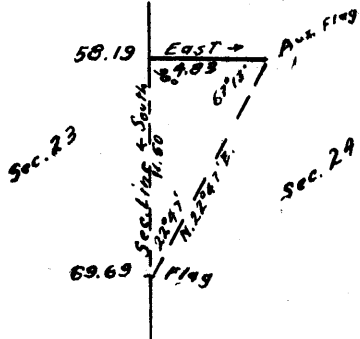
1922

from which

An oak, 10 ins. diam., bears N.84°E., 93 lks. dist.
marked $\frac{1}{4}$ S 24 B T

An oak, 12 ins. diam., bears N.10 $\frac{1}{4}$ °W., 30 lks. dist.
marked $\frac{1}{4}$ S 23 B T

- 40.50 Desc. slightly over SE. slope to Wash, 40 lks. wide, course NE.
- Asc. 34 ft. over NW. slope.
- 42.04 Descend 16 ft. over SE. slope.
- 44.03 Wash, 30 lks. wide, course N.60°E.
- Asc. 16 ft. over N. slope.
- 47.04 Descend 27 ft. over SE. slope.
- 51.92 Wash, 10 lks. wide, course S.70°E.
- Asc. 115 ft. over N. slope to 58.19 ch. point.
- 52.29 Intersect the N. bdy. of the Ricketts No. 4 mining claim, 9.33 chs. N.81°15'E. of Cor. No. 3. M.S. No.3817.
- 58.19 Foot of cliffs, bearing E. and W., facing N. Discontinue chaining, and triangulate as follows:



Vertical angle to flag on sec. line = + 28°.
Auxiliary flag bears East 4.83 chs. dist.
From flag on sec. line, the auxiliary flag brs. N.22°47'E.
All bearings checked by direct reading of the solar, and all angles checked by deflection.

Distance on sec. line, South = 58.19 chs.
Distance by triangulation, South = 11.50 chs.
69.69 chs.

- 69.69 Triangulation point on top of cliffs, bearing E. and W. facing N. 403 ft. above 58.19 ch. point. Continue line and measurement by chaining.
- Asc. 80 ft. over N. slope.
- 70.64 Intersect the south boundary of the Ricketts No. 2, mining claim, 6.53 chs. N.81°15'E. of Cor. No. 2, which is also Cor. No. 1 of Ricketts No. 3. M.S.No.3817.
- 72.52 Spur, slopes S.65°E.
- Descend 289 ft. over S. slope to
- 80.00 Establish the cor. of secs. 23, 24, 25 and 26 at this point as hereinbefore described.
- Land; mountainous.
- Soil; stony, 3rd. and 4th. rates.
- Timber; oak and mesquite.
- Undergrowth; greasewood, scrub oak and ocotillo.
- Good grass.

From the original $\frac{1}{4}$ sec. cor. of secs. 11 and 12, hereinbefore described,
N.0°1'W., bet. secs. 11 and 12 (N. $\frac{1}{2}$).
Over rolling land, through scattering timber and undergrowth.

- 5.00 Descend 29 ft. over NE. slope.
- Ascend 11 ft. over SE. slope.
- 6.40 Descend 34 ft. over NW. slope.
- 8.81 Wash, 100 lks. wide, course NE.

Survey of part (completion) of Subdivision lines of T.18 S., R.19 E.49

Chains.

16.36 Ascend 57 ft., over SE. slope.
 24.83 Descend 33 ft., over NE. slope.
 Wash, 10 lks. wide, course NE.
 35.80 Ascend 34 ft., over SE. slope.
 40.00 Descend 26 ft., over N. slope, to
 Set an iron post, 3 ft. long, 2 ins. in diam., 27 ins. in
 the ground, for cor. of secs. 1, 2, 11 and 12, marked on
 brass cap,

T18S	R19E
S 2	S 1
S11	S12

1922

from which,

- An oak, 15 ins. in diam., brs. N. 18 $\frac{3}{4}$ ° E., 112 lks. dist., marked T18S R19E S1 BT.
- An oak, 12 ins. in diam., brs. S. 61 $\frac{1}{4}$ ° E., 18 lks. dist., marked T18S R19E S12 BT.
- An oak, 24 ins. in diam., brs. S. 29 $\frac{1}{2}$ ° W., 105 lks. dist., marked T18S R19E S11 BT.
- An oak, 10 ins. in diam., brs. N. 76° W., 205 lks. dist., marked T18S R19E S2 BT.

Land, rolling.
 Soil, stony, 3rd rate.
 Timber, oak and mesquite.
 Undergrowth, scrub oak and scrub mesquite.
 Fair grass.

40.00 N. 89° 46' E., on a random line, bet. secs. 1 and 12.
 79.88 Set temp. $\frac{1}{4}$ sec. cor.
 Intersect the original cor. of secs. 1, 6, 7 and 12, on the
 E. bdy. of the Tp., hereinbefore described.
 Thence,
 S. 89° 46' W., on a true line, bet. secs. 1 and 12.
 Over rolling land, thru. scattering timber and under-
 growth, nearly parallel to wire fence, about 30 lks.
 N. of line.
 Ascend gradually over NE. slope to $\frac{1}{4}$ sec. cor.
 4.45 Wash, 20 lks. wide, course NE.
 12.54 Head of wash, course NE.
 15.53 Same wire fence, brs. N. 88 $\frac{3}{4}$ ° E. and S. 88 $\frac{3}{4}$ ° W. Thence nearly
 parallel to and N. of this fence.
 27.53 Wash, 10 lks. wide, course NE.
 39.94 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 1
S 12
1922

from which,

- An oak, 8 ins. in diam., brs. N. 71 $\frac{1}{2}$ ° E., 64 lks. dist., marked $\frac{1}{4}$ S 1 BT.
- An oak, 6 ins. in diam., brs. S. 30 $\frac{1}{4}$ ° W., 77 lks. dist., marked $\frac{1}{4}$ S 12 BT.

Ascend gradually over rolling NE. slope, to sec. cor.
 42.58 Wash, 50 lks. wide, course NE.
 51.38 Wash, 50 lks. wide, course NE.
 65.80 Wash, 10 lks. wide, course NE.
 70.18 Same wire fence, brs. N. 87 $\frac{1}{2}$ ° W. and S. 87 $\frac{1}{2}$ ° E.
 79.88 Intersect the cor. of secs. 1, 2, 11 and 12.
 Land, rolling.
 Soil, gravelly and stony, 2nd and 3rd rate.
 Timber, oak and mesquite.
 Undergrowth, scrub mesquite and scrub oak.
 Good grass.

BOOK 3649

50 Survey of part (completion) of Subdivision lines of T. 18 S. R. 19 E.

Chains.

N. 0° 8' W., on a random line, bet. secs. 1 and 2.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.58 Fall 39 lks. W. of the reestablished cor. of secs. 1, 2, 35 and 36, on the N. bdy. of the Tp., hereinbefore described.
 Thence,
 S. 0° 9' W., on a true line, bet. secs. 1 and 2.
 Over rolling land, thru. scattering timber and undergrowth.
 Descend 36 ft., over SE. slope.
 1.40 Wire fence, brs. E. and W.
 11.82 Wash, 100 lks. wide, course NE.
 Ascend gradually over NE. slope to $\frac{1}{4}$ sec. cor.
 28.58 Road from Benson, Arizona to Wm. Collins' ranch, brs. NE and SW.
 29.08 Wash, 30 lks. wide, course NE.
 34.98 Wash, 10 lks. wide, course NE.
 39.58 Set an iron post, 3 ft. long, 1 in. in diam., 27 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$
 S 2 | S 1
 1922

from which,

An oak, 8 ins. in diam., brs. S. 75° E., 132 lks. dist., marked $\frac{1}{4}$ S 1 BT.

A mesquite, 6 ins. in diam., brs. S. 16 $\frac{1}{4}$ ° W., 118 lks. dist., marked $\frac{1}{4}$ S 2 BT.

William Collins' house brs. N. 83° W. about 18.00 chs. dist.

Ascend gradually over rolling NE. slope to sec. cor.

51.91 Wash, 50 lks. wide, course NE.
 58.89 Wash, 10 lks. wide, course NE.
 71.59 Wash, 10 lks. wide, course NE.
 78.18 Wash, 40 lks. wide, course NE.
 79.14 Wire fence, brs. N. 87 $\frac{1}{2}$ ° W. and S. 87 $\frac{1}{2}$ ° E.
 79.58 The cor. of secs. 1, 2, 11 and 12.
 Land, rolling.
 Soil, gravelly and stony, 2nd and 3rd rate.
 Timber, oak and mesquite.
 Undergrowth, scrub mesquite and scrub oak.
 Good, grass.

From the cor. of secs. 34 and 35 on the S. bdy. of the Tp., hereinbefore described,

N. 0° 1' W., bet. secs. 34 and 35.

Over mountainous land, thru. scattering timber and undergrowth.

5.74 Descend 35 ft., over NE. slope, to Gulch, course N. 70° E., near head.
 Ascend 415 ft., over SE. slope.
 22.39 Spur, slopes N. 80° E..
 Descend 108 ft., over N. slope.
 30.14 Head of gulch, course E.
 Ascend 80 ft., over SE. slope, to
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in the ground to bed rock, deposit a stone, marked with a cross (x) at base of post, and raise a mound of stone around post, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$
 S 34 | S 35
 1922

No bearing trees available.

Ascend 26 ft., over SE. slope.

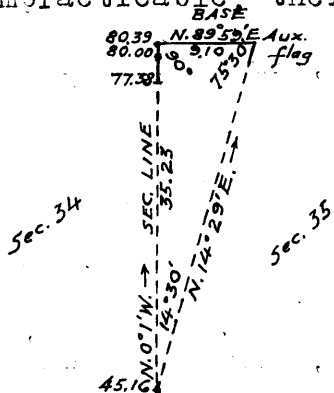
45.12 Wire fence brs. N. 45° E. and S. 45° W.

45.16 Spur, slopes NE. On account of steep descent over SE.

Survey of part (completion) of Subdivision lines of T.18 S. R.19 E. 51

Chains.

slope from this spur to bottom of canyon, chaining is impracticable: therefore, triangulate as follows:



Vertical angle to flag ahead on sec. line = - 12°. Auxiliary flag brs. N. 14° 29' E. From flag ahead on sec. line, the auxiliary flag brs. N. 89° 59' E., 9.10 chs. dist. All bearings checked by direct readings of the solar, and all angles checked by deflection.

Distance on sec. line, N. 0° 1' W. = 45.16 chs.
 Distance by triangulation, N. 0° 1' W. = 35.23 chs.
 Distance by return measurement, S. 0° 1' E. = 80.39 chs.
 Difference = 0.39 chs.
 Total = 80.00 chs.

77.38 From triangulation point at 80.39 ch. station, chain measurement, S. 0° 1' E., 3.01 chs. to Wash, 40 lks. wide, in bottom of canyon, course S. 50° E., about 490 ft., below 45.16 ch. station.
 80.00 Ascend 43 ft. over S. slope, to Set an iron post, 3 ft. long, 2 ins. in diam., 18 ins. in the ground to bed rock, supported in a mound of stone, for cor. of secs. 26, 27, 34 and 35, marked on brass cap,

T18S	R19E
S27	S26
S34	S35

1922

from which,

- A mesquite, 3 ins. in diam., brs. N. 58° E., 43 lks. dist., marked BT.
- An oak, 10 ins. in diam., brs. S. 2¼° E., 95 lks. dist., marked T18S R19E S35 BT.
- A mesquite, 4 ins. in diam., brs. S. 53° W., 130 lks. dist., marked BT.
- An oak, 8 ins. in diam., brs. N. 34½° W., 196 lks. dist., marked T18S R19E S27 BT.

Land, mountainous.
 Soil, stony, 3rd and 4th rate.
 Timber, mesquite and oak.
 Undergrowth, scrub oak and scrub mesquite.
 Good grass.

40.00 N. 89° 57' E., on a random line, bet. secs. 26 and 35. Set temp. sec. cor.
 79.84 Intersect N. and S. line, 10 lks. S. of the cor. of secs. 25, 26, 35 and 36.
 Thence,
 S. 89° 53' W., on true line, bet. secs. 26 and 35. Over rolling land, thru. very scattering timber and scattering undergrowth, nearly parallel to wire fence, 25 lks. S. of line.
 Ascend 37 ft., over NE. slope.
 0.25 Fence cor. brs. S. 25 lks. dist., from which fences extend W., E. and S. Continue 25 lks. N. of wire fence, bearing E. and W.
 7.38 Spur, slopes S. 50° E. Descend 18 ft., over SW. slope.
 10.57 Wash, 10 lks. wide, course SE. Ascend 30 ft. over SE. slope, to next wash.
 14.28 Pack trail, brs. NE. and SW.

52 Survey of part (completion) of Subdivision lines of T 18 S R 10 E

Chains.	
18.97	Wash, 10 lks. wide, course SE. Leave rolling and enter mountainous land.
	Ascend 195 ft., over NE. slope to spur.
25.00	Fence cor. brs. S. 25 lks. dist., from which fences extend E. and S. 55° W.
30.49	Spur, slopes SE.
	Ascend 13 ft., over S. slope, to
33.38	Wash, 15 lks. wide, course SE. near head.
	Ascend 48 ft., over NE. slope.
37.15	Spur, slopes S. 40° E.
	Descend 16 ft., over SW. slope, to
39.92	Set an iron post, 3 ft. long, 1 in. in diam., 27 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
	$\frac{1}{4}$ S 26 S 35 1922
	from which,
	A mesquite, 4 ins. in diam., brs. N. 55 $\frac{1}{4}$ ° W., 30 lks. dist., marked BT.
	A mesquite, 6 ins. in diam., brs. S. 60 $\frac{1}{4}$ ° W., 90 lks. dist., marked $\frac{1}{4}$ S 35 BT.
	Descend 6 ft. over SW. slope.
41.30	Wash, 10 lks. wide, course SE.
	Ascend 109 ft., over NE. slope, to
46.10	Spur, slopes SE.
	Ascend 52 ft., over S. slope, to
56.66	Wash, 20 lks. wide, course SE.
	Ascend 25 ft., over E. slope.
60.85	Point of spur, slopes S. 40° E.
	Descend 28 ft., over SW. slope.
63.82	Wash, 20 lks. wide, course S. 25° E.
	Ascend 73 ft., over E. slope.
67.49	Point of spur, slopes S. 10° E.
	Descend 15 ft., over SW. slope.
76.71	Wash, 10 lks. wide, course S. 10° E.
	Ascend 27 ft., over SE. slope, to
79.84	The cor. of secs. 26, 27, 34 and 35.
	Land, rolling and mountainous.
	Soil, stony, 3rd rate.
	Timber, mesquite and oak.
	Undergrowth, greasewood and scrub mesquite.
	Fair grass.

	N. 0° 1' W. bet. secs. 26 and 27.
	Over mountainous land, thru. very scattering timber and scattering undergrowth.
	Ascend 29 ft., over S. slope, to
5.00	Point of spur, slopes S. Thence along top of spur.
	Ascend 132 ft., to
12.72	Leave top of spur, slopes S. from N. 10° E.
	Ascend 67 ft., over W. slope, to
16.59	Head of gulch, course SW.
	Ascend 320 ft., over SW. slope.
26.25	Ridge, brs. NW. and SE.
	Descend 308 ft., over N. slope, to
33.86	Wash, 10 lks. wide in gulch, course NE.
	Ascend 18 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, deposit a stone marked with a cross (x) at base of post, and raise a mound of stone around post for $\frac{1}{4}$ sec. cor., marked on brass cap,
	$\frac{1}{4}$ S 27 S 26 1922

Survey of part (completion) of Subdivision lines of T.18 S., R.19 E. 53

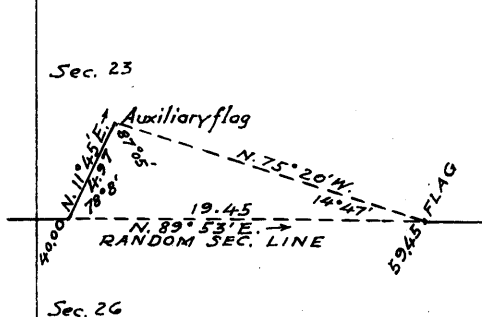
Chains.

No bearing trees available.
 Ascend 13 ft., over S.E. slope.
 41.39 Spur, slopes NE.
 Descend 196 ft., over NW. slope.
 58.27 Wash, 50 lks. wide, in bottom of Pennsylvania Canyon, course S.E.
 Ascend 231 ft., over S. slope, to
 72.58 Point of spur, slopes SW.
 Ascend 119 ft., over W. slope, to
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 6 ins. in the ground to bed rock, deposit a stone, marked with a cross (x) at base of post, and raise a mound of stone around post, for cor. of secs. 22, 23, 26 and 27, marked on brass cap,

T18S	R19E
S22	S23
S27	S26
1922	

No bearing trees available.
 Land, mountainous.
 Soil, stony, 3rd rate.
 Timber, mesquite and oak.
 Undergrowth, scrub mesquite and greasewood.
 Good grass.

40.00 N. 89° 53' E., on a random line, bet, secs. 23 and 26.
 Set temp. $\frac{1}{4}$ sec. cor. Beyond this point, the line crosses a deep gulch, with precipitous sides, and chaining is impracticable; therefore, triangulate as follows:

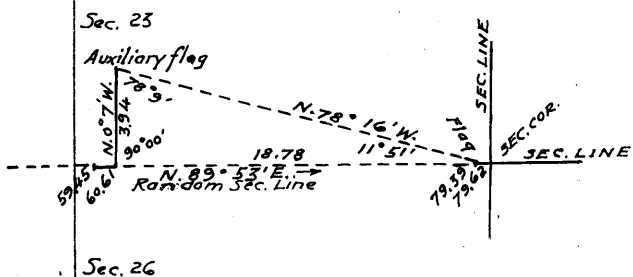


Vertical angle to point on random line in bottom of gulch = - 18°.
 Vertical angle to flag ahead on random line, = - 9°; auxiliary flag bears N. 11° 45' E., 4.97 chs. dist.; from flag on random line, the auxiliary flag bears N. 75° 20' W.; all bearings checked by direct readings of the solar, and all angles checked by deflection.

Dist. on random line, N. 89° 53' E., = 40.00 chs.
 Dist. by triangulation, N. 89° 53' E., = 19.45 "
 59.45 "

59.45 Triangulation point. Continue line and measurement by chaining.

60.61 Top of spur. Beyond this point, the line passes over a precipitous descent into a gulch, and chaining is impracticable; therefore triangulate as follows:
 Vertical angle to point on random line in bottom of gulch = - 20°.



Vertical angle to flag ahead on random line = - 18°; auxiliary flag brs. N. 0° 07' W., 3.94 chs. dist. From flag on random line, auxiliary flag brs. N. 78° 16' W.; all bearings checked by direct readings of the solar and all angles checked by deflection.

Sec. 26

54 Survey of part of Subdivision lines of T.18 S., R.19 E.

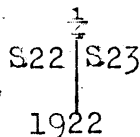
Chains.	
	Dist. on random line, N.89°53'E. = 60.61 chs.
	Dist. by triangulation, N.89°53'E., = <u>18.78 chs.</u>
	79.39 chs.
79.39	Triangulation point. Continue line and measurement by chaining.
79.62	Intersect the cor. of secs. 23, 24, 25 and 26. Thence, S.89°53'W., on true line, bet. secs. 23 and 26. Over mountainous land, thru. very scattering timber and scattering undergrowth.
0.23	Triangulation point. Discontinue chaining. Measurement of 18.78 chs. by triangulation as hereinbefore described.
4.86	Ascend about 45 ft. over steep S. slope, to (Approximate) Wash, 10 lks. wide, in gulch, course SE.
19.01	Ascend about 360 ft., over NE. slope, to Triangulation point. Continue line and measurement by chaining.
20.17	Ascend 23 ft., over NE. slope, to Triangulation point on spur, sloping SE. Discontinue chaining. Measurement of 19.45 chs. by triangulation, as hereinbefore described.
30.00	Descend 10 ft., over precipitous S. slope, to (Approximate) Wash, 10 lks. wide in bottom of gulch, course SE.
39.62	Ascend about 215 ft., over precipitous SE. slope, to Triangulation point. Continue line and measurement by chaining.
39.81	Ascend slightly over SE. slope, to Set an iron post, 3 ft. long, 1 in. in diam., 27 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,
	$\frac{1}{4}$ S 23 S 26 1922
	No bearing trees available. Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
44.08	Ascend 98 ft., over SE. slope, to Spur, slopes SW.
55.00	Descend 210 ft., over W. slope. Head of gulch, course SW.
59.65	Ascend 67 ft., over SE. slope. Spur, slopes SW.
65.05	Descend 12 ft., over NW. slope. Head of gulch, course SW.
67.55	Ascend 20 ft., over SE. slope. Spur, slopes S.40°W.
79.62	Descend 414 ft., over W. slope, to The cor. of secs. 22, 23, 26 and 27. Land, mountainous. Soil, stony, 3rd and 4th rate. Timber, oak. Undergrowth, greasewood and ocotillo. Good grass.

	N.0°1'W., bet. secs. 22 and 23. Over mountainous land, thru. scattering timber and undergrowth.
.44	Ascend 6 ft., over W. slope.
3.42	Descend 21 ft., over NW. slope. Wash, 10 lks. wide, in gulch, course S.80°W.
13.23	Ascend 247 ft., over SW. slope. Spur, slopes S.80°W.
24.48	Descend 216 ft., over NW. slope. Wash, 10 lks. wide, in bottom of canyon, course S.60°W. Ascend 550 ft., over SE. slope, to

Survey of part (completion) of Subdivision lines of T.18 S., R.19 E. 55

Chains.

40.00 Spur, slopes SW. Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground to bedrock, and raise a mound of stone around post, for $\frac{1}{4}$ sec. cor., marked on brass cap,



from which,

A juniper, 8 ins. in diam., brs. S. $80\frac{1}{4}^{\circ}$ E., 26 lks. dist., marked $\frac{1}{4}$ S 23 BT.

A juniper, 4 ins. in diam., brs. N. $33\frac{1}{4}^{\circ}$ W., 60 lks. dist., marked BT.

Ascend 104 ft., over W. slope, to

56.72 Wash, 10 lks. wide, course SW.

Ascend 129 ft., over SE. slope, to

60.16 Spur, slopes SW.

Ascend 168 ft., over W. slope, to

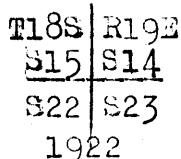
65.82 Head of gulch, course SW.

Ascend 76 ft., over SW. slope.

68.95 Ridge, brs. NW. and SE.

Descend 263 ft., over NE. slope, to

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 28 ins. in the ground, for cor. of secs. 14, 15, 22 and 23, marked on brass cap,



No bearing trees available. Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land, mountainous.

Soil, stony, 3rd and 4th rate.

Timber, juniper and oak.

Undergrowth, greasewood and scrub oak.

Good grass.

40.00 N. $89^{\circ}53'$ E., on a random line, bet. secs. 14 and 23.

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

79.66 Intersect N. and S. line, 3 lks. S. of the original cor. of secs. 13, 14, 23 and 24, hereinbefore described.

Thence,

S. $89^{\circ}52'$ W., on a true line, bet. secs. 14 and 23.

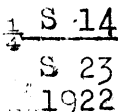
Over mountainous land, thru. scattering timber and undergrowth. Asc. 536 ft., over NE. slope to $\frac{1}{4}$ sec. cor.

1.60 Wash, 10 lks. wide, course NE.

16.74 Wash, 10 lks. wide, course NE.

34.96 Wash, 10 lks. wide, in gulch, course NE.

39.83 Set an iron post, 3 ft. long, 1 in. in diam., 27 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,



No bearing trees available. Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Ascend 766 ft., over steep NE. slope to sec. cor.

45.05 Head of gulch, course NE.

60.66 Head of gulch, course NE.

76.45 Wash, 10 lks. wide, in gulch, course N 30° E.

79.66 The cor. of secs. 14, 15, 22 and 23.

Land, mountainous.

Soil, stony, 3rd rate.

56 Survey of (completion) of Subdivision lines of T.18 S., R.19 -.

Chains.

Timber, oak and mesquite,
Undergrowth, scrub oak and scrub mesquite.
Good grass.

-
- 40.00 N. 0° 1' W., on a random line, bet. secs. 14 and 15.
Set temp. $\frac{1}{4}$ sec. cor.
80.00 Intersect E. and W. line, 40 lks. E. of the original cor.
of secs. 10, 11, 14 and 15, hereinbefore described.
Thence,
S. 0° 18' E., on a true line, bet. secs. 14 and 15.
Over mountainous land, thru scattering timber and under-
growth.
Ascend 56 ft., over W. slope.
3.71 Descend 12 ft. over SW. slope.
4.80 Wash, 10 lks. wide, in gulch, course NW. near head.
Ascend 270 ft. over NW. slope.
18.25 Ridge, brs. NE. and SW.
Descend 25 ft., over SE. slope.
20.21 Wash, 10 lks. wide, in gulch, course NE.
Ascend 416 ft., over steep NE. slope to $\frac{1}{4}$ sec. cor.
29.50 Wash, 12 lks. wide, in gulch, course NE.
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in
the ground to bed rock, and raise a mound of stone
around post, for $\frac{1}{4}$ sec. cor., marked on brass cap,

S15 | S14

1922

from which,

- An oak, 10 ins. in diam., bears N. 37 $\frac{1}{2}$ ° W., 42
lks. dist., marked $\frac{1}{4}$ S. 15 BT.
An oak, 4 ins. in diam., brs. N. 50 $\frac{1}{2}$ ° E., 29
lks. dist., marked BT.
41.49 Descend 12 ft., over E. slope, to
Wash, 8 lks. wide, in gulch, course NE. near head.
Ascend 12 ft., over N. slope.
42.90 Point of spur, slopes NE.
Ascend 109 ft., over E. slope, to
49.33 Head of gulch, course NE.
Ascend 11 ft., over N. slope.
49.99 Spur, slopes NE.
Descend 95 ft., over SE. slope.
55.72 Wash, 10 lks. wide, in gulch, course N. 60° E.
Ascend 178 ft., over N. slope.
61.11 Spur, slopes N. 50° E.
Descend 54 ft., over SE. slope.
67.41 Wash, 10 lks. wide, in gulch; course N. 55° E.
Ascend 315 ft., over NE. slope, to
80.00 The cor. of secs. 14, 15, 22 and 23.
Land, mountainous.
Soil, stony, 3rd and 4th rate.
Timber, juniper and oak.
Undergrowth, scrub oak.
Good grass.

-
- From the original cor. of secs. 2, 3, 10 and 11, hereinbe-
fore described,
N. 89° 51' E., on a random line, bet. secs. 2 and 11.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
79.88 Intersect N. and S. line, 12 lks. S. of the cor. of secs. 1,
2, 11 and 12.
Thence,
S. 89° 46' W., on true line, bet. secs. 2 and 11.

Survey of (completion) of Subdivision lines of T.18 S. R.19 E.57
Chains.

Over rolling land, thru scattering timber and undergrowth.
Ascend 90 ft. over NE. slope to $\frac{1}{4}$ sec. cor.
2.22 Wash, 40 lks. wide, course NE.
7.61 Wash, 10 lks. wide, course NE.
21.31 Wash, 10 lks. wide, course NE.
33.81 Wash, 10 lks. wide, course NE.
39.94 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 2
S 11
1922

from which,
An oak, 8 ins. in diam., brs. N. 69° E., 86 lks. dist., marked $\frac{1}{4}$ S 2 BT.
An oak, 12 ins. in diam., brs. S. 53 $\frac{1}{2}$ ° E., 70 lks. dist., marked $\frac{1}{4}$ S 11 BT.
Raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
Descend 12 ft., over NW. slope.
44.01 Wash, 10 lks. wide, course NE.
Ascend gradually over NE. slope, to
51.38 Head of wash, course NE.
Ascend gradually over NE. slope.
61.30 Descend 20 ft., over NW. slope.
63.50 Wash, 40 lks. wide, course N. 20° W.
Ascend 20 ft., over NE. slope.
65.38 Descend 40 ft., over NW. slope.
69.34 Wash, 20 lks. wide, course NE.
Ascend gradually over NE. slope to sec. cor.
79.10 Wash, 10 lks. wide, course NE.
79.88 The original cor. of secs. 2, 3, 10 and 11.
Land, rolling.
Soil, stony, 3rd rate.
Timber, mesquite and oak.
Undergrowth, scrub oak and greasewood.
Good grass.

N. 0° 9' E., on a random line, bet. secs. 2 and 3.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
79.20 Fall 8 lks. E. of the reestablished cor. of secs. 2, 3, 34 and 35, on the N. bdy. of the Tp., hereinbefore described.
Thence,
S. 0° 6' W., on a true line, bet. secs. 2 and 3.
Over rolling land, thru scattering timber and undergrowth.
Descend 35 ft., over SE. slope.
9.39 Wash, 40 lks. wide, course NE.
Ascend 52 ft., over NE. slope to $\frac{1}{4}$ sec. cor.
16.14 Wash, 20 lks. wide, course NE.
32.82 Wash, 10 lks. wide, course NE.
39.20 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 2
S 3
1922

from which,
An oak, 15 ins. in diam., brs. S. 29° E., 94 lks. dist., marked $\frac{1}{4}$ S 2 BT.
An oak, 12 ins. in diam., brs. S. 22 $\frac{1}{4}$ ° W., 100 lks. dist., marked $\frac{1}{4}$ S 3 BT.
Ascend 70 ft., over NE. slope to sec. cor.
43.19 Wash, 20 lks. wide, course NE.

BOOK 3649

58 Survey of part (completion) of Subdivision lines of T. 18 S. R. 19E

Chains.

- 46.70 Wash, 20 lks. wide, course NE.
- 57.29 Old road, brs. NE. and SW.
- 61.49 Wash, 10 lks. wide, course NE.
- 79.29 The original cor. of secs. 2, 3, 10 and 11.
Land, rolling.
Soil, stony, 3rd rate.
Timber, oak and mesquite.
Undergrowth, greasewood and scrub mesquite.
Good grass.

From the cor. of secs. 33 and 34, on the S. bdy. of the Tp.,
hereinbefore described,
N. 0° 2' W., bet. secs. 33 and 34.
Over mountainous land, thru. very scattering timber and
dense undergrowth.

- 15.61 Ascend 389 ft., over SW. slope, to
Spur, slopes SE.
- 16.70 Ascend 9 ft., over E. slope, to
Wash, 8 lks. wide, course SE.
Ascend 317 ft., over SW. slope.
- 26.44 Spur, slopes SE.
Ascend 42 ft., over E. slope, to
- 28.86 Head of gulch, course SE.
Ascend 33 ft., over S. slope.
- 31.71 Ridge, brs. N. 80° W. and S. 80° E.
Descend 272 ft., over N. slope, to
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 27 ins. in
the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

S33 | S34
1922

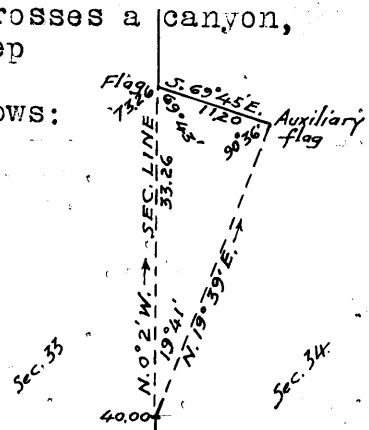
No bearing trees available. Raise a mound of stone, 2 ft.
base, 1 1/2 ft. high, W. of cor.
Beyond the $\frac{1}{4}$ sec. cor., the line crosses a canyon,
the sides of which are too steep
to permit of accurate chaining;
therefore, triangulate as follows:

Vertical angle to point on sec.
line in bottom of canyon = -15°
Vertical angle to flag ahead on
sec. line on opposite side of
canyon = -4°.

Auxiliary flag brs. N. 19° 39' E.
From flag on sec. line, the aux-
iliary flag brs. S. 69° 45' E.,
11.20 chs. dist.

All bearings checked by direct
reading of the solar; and
all angles checked by deflection.

Distance on sec. line, N. 0° 2' W., = 40.00 chs.
Distance by triangulation, N. 0° 2' W., = 33.26 chs.
73.26 chs.



- 58.00 (approximate) Wash, 30 lks. wide, in bottom of canyon,
course N. 80° E., about 320 ft. below $\frac{1}{4}$ sec. cor.
- 73.26 Ascend about 165 ft., over S. slope, to
Triangulation point on spur, sloping S. 70° E.
Continue line and measurement by chaining.
- 77.62 Descend 120 ft., over NE. slope.
Wash, 10 lks. wide, in gulch, course SE.
- 80.00 Ascend 51 ft., over S. slope, to
Set an iron post, 3 ft. long, 2 ins. in diam., 27 ins. in the
ground, for cor. of secs. 27, 28, 33, and 34, marked on brass
cap,

T18S | R19E
S28 | S27
S33 | S34
1922

Survey of part (completion) of Subdivision lines of T. 18 S., R. 19 E. 59

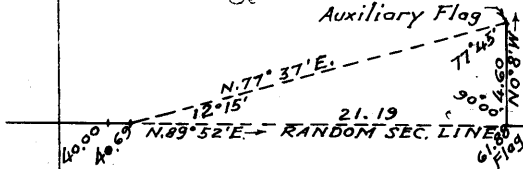
Chains.

from which,

- A juniper, 24 ins. in diam., brs. N. 23 1/4° E., 237 lks. dist., marked T18S R19E S27 BT.
- An oak, 10 ins. in diam., brs. S. 14° E., 88 lks. dist., marked T18S R19E S34 BT.
- An oak, 6 ins. in diam., brs. S. 21 1/2° W., 19 lks. dist., marked T18S R19E S33 BT.
- An oak, 6 ins. in diam., brs. N. 15 1/4° W., 5 lks. dist., marked T18S R19E S28 BT.

Land, mountainous.
 Soil, stony, 3rd and 4th rate.
 Timber, juniper and mesquite.
 Undergrowth, scrub oak, and greasewood.
 Good grass,

- 40.00 N. 89° 52' E., on random line, bet. secs. 27 and 34. Set temp. 1/4 sec. cor.
- 40.69 Discontinue chaining owing to precipitous descent, and triangulate as follows:



Vertical angle to flag ahead on random line = - 17°.
 Auxiliary flag bears N. 77° 37' E.
 From flag on random line the auxiliary flag brs. N. 9° 8' W., 4.60 chs. dist.

All bearings checked by direct readings of the solar and all angles checked by deflection.

- Distance on random line, N. 89° 52' E. = 40.69 chs.
 - Distance by triangulation, N. 89° 52' E. = 21.19 chs.
- 61.88 chs.

- 61.88 Triangulation point.
- Continue line and measurement by chaining.
- 80.00 Intersect the cor. of secs. 26, 27, 34 and 35. Thence, S. 89° 52' W., on a true line, bet. secs. 27 and 34. Over mountainous land, thru. scattering timber and dense undergrowth.
- 2.97 Descend 24 ft., over SW. slope. Wash, 30 lks. wide, course SE.
- 10.33 Ascend 64 ft., over E. slope, to Point of spur, slopes SE.
- 18.12 Ascend 49 ft., over S. slope, to Triangulation point. Continue chaining.
- 23.07 Ascend 46 ft., over S. slope, to Wash, 10 lks. wide, in gulch, course SE. Discontinue chaining.
- Measurement from 18.12 ch. station to 39.31 ch. station by triangulation, as hereinbefore described.
- 39.31 Ascend about 380 ft., over steep NE. slope, to Triangulation point. Continue line and measurement by chaining.
- 40.00 Ascend 8 ft., over NE. slope, to Set an iron post, 3 ft. long, 1 in. in diam., 5 ins. in the ground to bed rock, and raise a mound of stone around post for 1/4 sec. cor., marked on brass cap,

1/4 S 27
 S 34
 1922

from which,

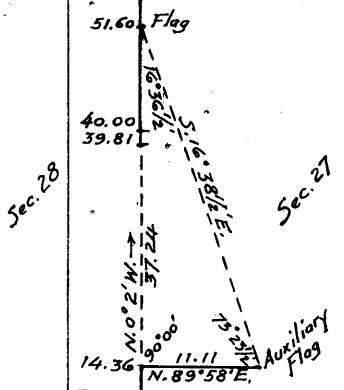
- An oak, 10 ins. in diam., brs. N. 67° W., 58 lks. dist., marked 1/4 S 27 BT.
- An oak, 8 ins. in diam., brs. S. 13 1/4° E., 81 lks. dist., marked 1/4 S 34 BT.

60 Survey of part (completion) of the Subdivision lines of T.18 S. R. 19 E Chains.

Ascend 60 ft., over NE. slope.
 45.32 Spur, slopes S. 40° E.
 Descend 129 ft., over SW. slope.
 51.51 Wash, 10 lks. wide, in gulch, course SE.
 Ascend 33 ft., over E. slope.
 53.84 Point of spur, slopes SE.
 Descend 31 ft., over SW. slope.
 65.62 Wash, 10 lks. wide, in gulch, course SE.
 Ascend 181 ft., over SE. slope, to
 76.67 Wash, 10 lks. wide, in gulch, course SE. near head.
 Ascend 66 ft., over SE. slope, to
 80.00 The cor. of secs. 27, 28, 33 and 34.
 Land, mountainous.
 Soil, stony, 3rd and 4th rate.
 Timber, mesquite, juniper and oak.
 Undergrowth, scrub mesquite and scrub oak.
 Good grass.

N. 0° 2' W., bet. secs. 27 and 28.
 Over mountainous land, thru. scattering timber and dense undergrowth. Ascend 90 ft., over S. slope.

6.04 Spur, slopes SE.
 Descend 25 ft., over NE. slope.
 8.91 Wash, 10 lks. wide, in gulch, course SE.
 Ascend 30 ft., over SW. slope, to
 14.36 Saddle in ridge, brs. N. 70° W. and S. 70° E. Beyond this point the sec. line crosses a canyon, and precipitous descent into same renders chaining impracticable; therefore triangulate as follows:



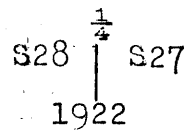
Vertical angle to flag ahead on sec. line = - 9°; auxiliary flag brs. N. 89° 58' E., 11.11 chs. dist.
 From flag ahead on sec. line, the auxiliary flag brs. S. 16° 38' E.; all bearings checked by direct readings of the solar and all angles checked by deflection.

Dist. on sec. line, N. 0° 2' W.,	= 14.36 chs.
Dist. by triangulation, N. 0° 2' W.	= 37.24 "
	51.60 "
Dist. by return measurement, S. 0° 2' E.	11.79 "
	39.81 "

39.81 Foot of cliffs, bearing E. and W. facing N. about 680 ft. below 14.36 ch. station on sec. line.

Thence, N. 0° 2' W., continuing measurement.

Ascend slightly, over SE. slope, to
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 14 ins. in the ground to bed rock, deposit a stone, marked with a cross (x) at base of post, and raise a mound of stone around post, for 1/4 sec. cor., marked on brass cap,



No bearing trees available.
 Ascend 15 ft., over SE. slope, to

41.00 Wash, 10 lks. wide, in gulch, course SE.
 42.00 Ascend 35 ft., over E. slope.

Survey of part (completion) of Subdivision lines of T.18 S. R.19 E. 61

Chains.

- 41.00 Descend 51 ft., over N.E. slope.
- 42.90 Wash, 20 lks. wide in bottom of canyon, course S. 70° E. Ascend 860 ft., over SW. slope.
- 73.47 Ridge brs. N. 60° W. and S. 60° E. A spur, slopes NE. from ridge at this point.
- 80.00 Descend 350 ft., over NW. slope, to set an iron post, 3 ft. long, 2 ins. in diam., 27 ins. in the ground, for cor. of secs. 21, 22, 27 and 28, marked on brass cap,

T18S	R19E
S21	S22
S28	S27
1922	

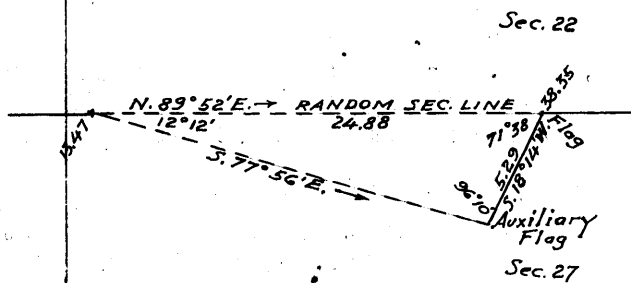
from which,

- An oak, 10 ins. in diam., brs. N. 56 1/2° E., 29 lks. dist., marked T18S R19E S22 BT.
- An oak, 6 ins. in diam., brs. S. 42 1/2° E., 17 lks. dist., marked T18S R19E S27 BT.
- An oak, 6 ins. in diam., brs. S. 16° W., 13 lks. dist., marked T18S R19E S28 BT.

No other bearing trees available. Raise a mound of stone 2 ft. base, 1 1/2 ft. high, W. of cor.

Land, mountainous.
Soil, stony, 3rd and 4th rate.
Timber, juniper, pine and oak.
Undergrowth, scrub oak.
Fair grass.

- 13.47 N. 89° 52' E., on a random line, bet. secs. 22 and 27. Spur, slopes NE. Beyond this point, the line crosses a deep gulch, and chaining is impracticable; therefore, set flag ahead on random line, and triangulate across the gulch as follows:



Vertical angle to flag on random line = + 6°.
Vertical angle to point on random line in bottom of gulch = - 20°; auxiliary flag brs. S. 77° 56' E.; from flag on random line, the auxiliary flag brs. S. 18° 14' W., 5.29 chs. dist. All bearings checked by direct readings of the solar, and all angles checked by deflection.

Dist. on random line, N. 89° 52' E. = 13.47 chs.
Dist. by triangulation, N. 89° 52' E. = 24.88 chs.
38.35 "

- 38.35 Triangulation point. Continue line and measurement by chaining.
- 40.00 Set temp. 1/4 sec. cor.
- 80.10 Intersect the cor. of secs. 22, 23, 26 and 27. Thence, S. 89° 52' W., on true line, bet. secs. 22 and 27. Over mountainous land, thru. scattering timber and undergrowth.
- 9.37 Descend 236 ft., over SW. slope. Wash, 100 lks. wide, course S. 35° E. in bottom of Pennsylvania Canyon.
- 18.74 Ascend 160 ft., over N.W. slope, to Wash, 10 lks. wide, course NE. Ascend 244 ft., over E. slope.

62 Survey of part (completion) of Subdivision lines of T. 18 S. R. 19 E.

Chains.

30.31 Point of spur, slopes NE.
 Descend 30 ft., over NW. slope, to
 37.10 Wash, 10 lks. wide, in gulch, course N. 25° W.
 Descend 20 ft., over NW. slope, to
 40.00 Wash, 10 lks. wide, course N. 30° W.
 Ascend slightly over E. slope, to
 40.05 Set an iron post, 3 ft. long, 1 in. in diam., 8 ins. in
 the ground to bedrock, and raise a mound of stone
 around post, for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 22
 S 27
 1922

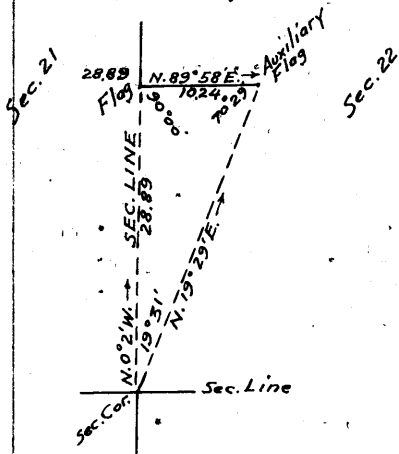
from which,

A cedar, 8 ins. in diam., brs. N. 20 $\frac{1}{4}$ ° W., 34 lks.
 dist., marked $\frac{1}{4}$ S 22 BT.
 A cedar, 6 ins. in diam., brs. S. 33 $\frac{1}{2}$ ° W., 52 lks.
 dist., marked $\frac{1}{4}$ S 27 BT.

Ascend 23 ft., over E. slope.
 41.75 Point of spur, slopes N. 18° E. Triangulation point. Discont-
 inue chaining. Measurement of 24.88 chs. across
 gulch by triangulation, hereinbefore described.
 Descend about 290 ft., over NW. slope.
 61.63 (Approximate) Wash 10 lks. wide, course NE.
 Ascend about 120 ft., over E. slope.
 66.63 Spur, slopes N. 30° E. Triangulation point. Continue line
 and measurement by chaining.
 Ascend 35 ft., over NW. slope, to
 69.63 Head of gulch, course NE.
 Ascend 142 ft., over E. slope.
 75.70 Spur, slopes NE.
 Descend 18 ft., over NW. slope, to
 80.10 The cor. of secs. 21, 22, 27 and 28.
 Land, mountainous.
 Soil, stony, 3rd and 4th rate.
 Timber, cedar, juniper and oak.
 Undergrowth, scrub oak and scrub juniper.
 Fair grass

N. 0° 2' W., bet. secs. 21 and 22.

Over mountainous land, thru. scattering timber and dense
 undergrowth. Owing to precipitous sides of canyon,
 chaining is impracticable; therefore, triangulate as
 follows:



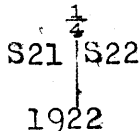
Vertical angle to point on
 sec. line in bottom of
 canyon = - 30 $\frac{1}{4}$ °; verti-
 cal angle to flag ahead
 on sec. line = - 18 $\frac{1}{2}$ °;
 auxiliary flag brs. N. 19°
 29' E.; from flag ahead on
 sec. line the auxiliary
 flag brs. N. 89° 58' E.,
 10.24 chs. dist.; all
 bearings checked by di-
 rect readings of the
 solar and all angles
 checked by deflection.

Dist. by triangulation N. 0° 2' W., from sec. cor. = 28.89 chs.
 1.00 (Approx.) Wash, 5 lks. wide in gulch, course NE. about 25
 ft. below sec. cor.
 Descend very precipitous NE. slope, to
 18.89 (Approximate) Wash, 20 lks. wide, course S. 80° E. in bottom
 of canyon, about 730 ft. below sec. cor.
 Ascend about 115 ft., over S. slope.
 28.89 Spur, slopes S. 80° E. Triangulation point. Continue line

Survey of part (completion) of Subdivision lines of T.18 S., R.19 E. 63

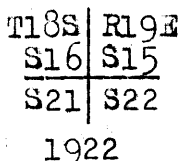
Chains.

and measurement by chaining.
 Descend 66 ft., over NE. slope.
 34.14 Wash, 40 lks. wide, in gulch, course S. 70° E.
 Ascend 72 ft., over SE. slope, to
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
 the ground, for 1/4 sec. cor., marked on brass cap,



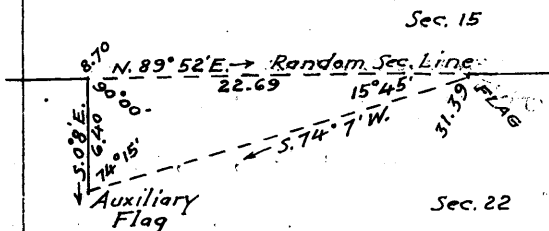
from which,
 An oak, 15 ins. in diam., brs. N. 45 1/4° E., 83 lks.
 dist., marked 1/4 S 22 BT.
 A pine, 8 ins. in diam., brs. N. 49 3/4° W., 49 lks.
 dist., marked 1/4 S 21 BT.

42.77 Ascend 15 ft. over SE. slope, to
 Wash, 10 lks. wide, course SE.
 Ascend 241 ft., over SE. slope, to
 59.33 Wash, 10 lks. wide, course S. 50° E.
 Ascend 145 ft., over SE. slope, to
 72.95 Wash, 6 lks. wide, course SE.
 Ascend 52 ft., over SW. slope.
 75.56 Spur, slopes SE.
 Descend 24 ft., over NE. slope.
 76.55 Wash, 5 lks. wide, course SE.
 Ascend 10 ft., over SE. slope.
 78.65 Main ridge of the Whetstone mountains, brs. W. and N. 60°
 E.
 Descend 22 ft. over NW. slope, to
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 27 ins. in
 the ground for cor. of secs. 15, 16, 21 and 22, marked
 on brass cap,



No bearing trees available. Raise a mound of stone 2 ft.
 base, 1 1/2 ft. high, W. of cor.
 Land, mountainous.
 Soil, stony, 3rd and 4th rate.
 Timber, oak, juniper, cedar and pine.
 Undergrowth, scrub oak.
 Good grass.

8.70 N. 89° 52' E., on random line, bet. secs. 15 and 22.
 Discontinue chaining owing to precipitous slopes, and
 triangulate as follows:



Vertical angle to flag
 ahead on random line =
 0°.
 Vertical angle to point on
 random line in wash
 = -20°.
 Auxiliary flag brs. S. 0° 8' E.,
 6.40 chs. dist.
 From flag ahead on random
 line, the auxiliary
 flag brs. S. 74° 7' W.
 All bearings checked by
 direct readings of the
 solar, and all angles
 checked by deflection.

Dist. on random line, N. 89° 52' E. = 8.70 chs.
 Dist. by triangulation, N. 89° 52' E. 22.69 "
 31.39 "

64 Survey of part (completion) of Subdivision lines of T.18 S.R.19 E.

Chains.

- 31.39 Triangulation point.
Continue line and measurement by chaining.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 79.94 Intersect N. and S. line, 5 lks. S. of the cor. of secs. 14, 15, 22 and 23.
Thence,
S. $89^{\circ}50'$ W., on true line, bet. secs. 15 and 22.
Over mountainous land, thru. dense timber and undergrowth.
Ascend 15 ft., over NE. slope.
- 1.02 Ridge, brs. NW. and S.
Descend 113 ft., over SW. slope, to
- 6.36 Wash, 10 lks. wide, in gulch, course SW. near head.
Descend 236 ft., over SW. slope, to
- 20.51 Wash, 10 lks. wide in gulch, course SW. near head.
Ascend 23 ft., over SE. slope.
- 23.84 Spur, slopes SW.
Descend 40 ft., over W. slope.
- 26.88 Wash, 10 lks. wide, in gulch, course SW.
Ascend 37 ft., over SE. slope, to
- 28.84 Saddle in main ridge of Whetstone mountains, brs. NE. and SW.
Descend 13 ft., over NW. slope, to
- 33.09 Head of gulch, course N.
Ascend 168 ft., over NE. slope, to
- 39.97 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,
- 1 S 15
S 22
1922
- from which,
An oak, 10 ins. in diam., brs. N. $39\frac{1}{4}^{\circ}$ E., 52 lks. dist., marked $\frac{1}{4}$ S 15 BT.
An oak, 10 ins. in diam., brs. S. $0\frac{1}{2}^{\circ}$ E., 18 lks. dist., marked $\frac{1}{4}$ S 22 BT.
- 48.55 Descend 110 ft., over N. slope, to
Main ridge of the Whetstone Mountains, brs. NW. and SE.
Triangulation point. Discontinue chaining. Measurement to 71.24 ch. station by triangulation, as hereinbefore described.
- 56.24 Descend about 360 ft., over SW. slope.
(Approximate) wash, 10 lks. wide, in head of canyon, course SE.
- 71.24 Ascend about 360 ft., over SE. slope.
Main ridge of the Whetstone Mountains, brs. NE. and SW.
Triangulation point. Continue line and measurement by chaining.
- 79.94 Descend 237 ft., over NW. slope, to
The cor. of secs. 15, 16, 21 and 22.
Land, mountainous.
Soil, stony, 3rd and 4th rate.
Timber, pine, juniper, cedar and oak.
Undergrowth, scrub oak.
Good grass.
-
- 40.00 N. $0^{\circ}18'$ W., on a random line, bet. secs. 15 and 16.
Set temp. $\frac{1}{4}$ sec. cor.
- 79.94 Intersect the original cor. of secs. 9, 10, 15 and 16, hereinbefore described.
Thence,
S. $0^{\circ}18'$ E., on true line, bet. secs. 15 and 16.
Over mountainous land, thru. dense timber and undergrowth.
Ascend 23 ft., over NE. slope, to
- 4.99 Wash, 10 lks. wide, course NE. near head.
Ascend 59 ft., over NE. slope to top of spur.

Survey of part (completion) of Subdivision lines of T. 18 S., R. 19 E., S. 65

Chains.

- 8.82 Wire fence brs. N. $\frac{1}{2}^{\circ}$ E. and S. $\frac{1}{2}^{\circ}$ W.
- 11.73 Top of spur, slopes N. 20° W.
Ascend 10 ft., over W. slope, to
- 15.03 Wash, 40 lks. wide, course N. 20° W.
Ascend 15 ft., over NE. slope, to
- 17.16 Wash, 10 lks. wide, course N. 25° E.
Ascend 19 ft., over NE. slope, to
- 19.26 Wash, 20 lks. wide, course NE.
Ascend 235 ft., over W. and NW. slopes, to
- 38.34 Top of same spur, slopes N. 40° E.
Descend 39 ft., over SE. slope to $\frac{1}{4}$ sec. cor.
- 38.48 Wire fence brs. E. and W.
- 39.97 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,

$\frac{1}{4}$
 S16 | S15
 1922

from which,

- An oak, 10 ins. in diam., brs. S. 87° E., 72 lks.
dist., marked $\frac{1}{4}$ S 15 BT.
- An oak, 10 ins. in diam., brs. S. 89° W., 58 lks.
dist., marked $\frac{1}{4}$ S 16 BT.

- Descend 49 ft., over SE. slope.
- 42.17 Wash, 10 lks. wide, in gulch, course NE.
Ascend 72 ft., over NW. slope, to
- 46.15 Spur, slopes NE.
Ascend gradually over E. slope, to
- 52.85 Wash, 10 lks. wide, course NE.
Ascend 271 ft., over NW. slope.
- 61.54 Pack trail, brs. NW. and SE.
- 63.89 Spur, slopes NE.
Ascend 22 ft., over E. slope, to
- 65.46 Wash, 10 lks. wide, course N. 50° E.
Ascend 165 ft., over NW. slope.
- 72.28 Spur, slopes N. 40° E.
Ascend 95 ft., over E. slope, to
- 77.79 Wash, 10 lks. wide, in gulch, course N. 35° E.
Ascend 78 ft., over NW. slope, to
- 79.94 The cor. of secs. 15, 16, 21 and 22.
Land, mountainous.
Soil, stony, 3rd and 4th rate.
Timber, juniper, pine, cedar and oak.
Undergrowth, scrub oak and manzanita.
Good grass.

From the cor. of secs. 32 and 33 on the S. bdy. of the To.,
hereinbefore described,
N. $9^{\circ} 2'$ W., bet. secs. 32 and 33.
Over mountainous land, thru. scattering timber and dense
undergrowth.

- Descend 124 ft. over N. slope.
- 3.53 Wash, 20 lks. wide in gulch, course E.
Ascend 246 ft., over S. slope.
- 13.36 Spur, slopes S. 60° E.
Descend 183 ft., over NE. slope.
- 20.16 Wash, 15 lks. wide, in bottom of canyon, course S. 65° E.
Ascend 370 ft., over SE. slope, to
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 15 ins. in
the ground to bed rock, deposit a stone, marked with
a cross (x) at base of post, and raise a mound of stone
around post for $\frac{1}{4}$ sec. cor., marked on brass cap,

66 Survey of part (completion) of Subdivision lines of T.18 S. R. 19 E.

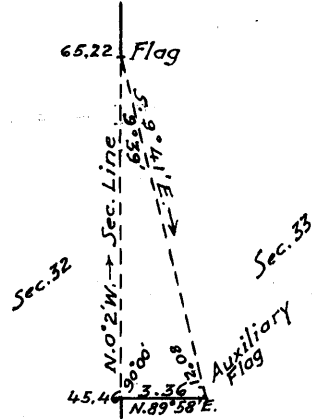
Chains.

S32 | S33
1922

No bearing trees available.
Ascend 37 ft., over SE. slope.
42.55 Main ridge of the Whetstone Mountains, brs. N. 60° E. and S. 60° W.

45.46 Descend 35 ft., over NW. slope, to
Discontinue chaining owing to precipitous slopes, and triangulate across head of a gulch as follows:

Vertical angle to point on sec. line at head of gulch = - 16 1/4°.
Vertical angle to flag ahead on sec. line = - 12°.
Auxiliary flag brs. N. 89° 58' E., 3.36 chs. dist., which is as long a base as can be obtained.
From flag ahead on sec. line, the auxiliary flag brs. S. 9° 41' E.; all bearings checked by direct readings of the solar, and all angles checked by deflection:



Dist. on sec. line, N. 0° 2' W. = 45.46 chs.
Dist. by triangulation, N. 0° 2' W. = 19.76 chs.
65.22 chs.

51.22 (Approximate) Head of gulch, course NW. about 165 ft. below 45.46 ch. station.

65.22 Ascend about 105 ft., over SW. slope, to
Point of spur, slopes NW. Triangulation point. Continue line and measurement by chaining.

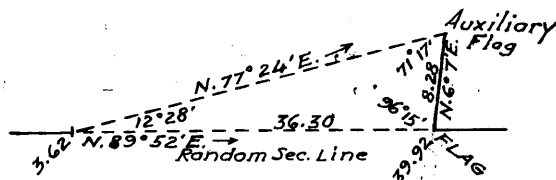
70.28 Descend 95 ft., over N. slope, to
Head of gulch, course NW.

80.00 Descend 277 ft., over W. slope, to
Point of spur, slopes NW. Set an iron post, 3 ft. long, 2 ins. in diam., 15 ins. in the ground to bed rock, deposit a stone, marked with a cross (x) at base of post, and raise a mound of stone around post, for cor. of secs. 28, 29, 32 and 33, marked on brass cap,

T18S | R19E
S29 | S28
S32 | S33
1922

No bearing trees available.
Land, mountainous.
Soil, stony, 3rd and 4th rate.
Timber, pine and oak.
Undergrowth, scrub oak and mountain mahogany.
Fair grass.

3.62 N. 89° 52' E., on random line, bet. secs. 28 and 33.
Discontinue chaining owing to precipitous broken slopes ahead, and triangulate as follows:



Vertical angle to flag ahead on random line = + 7°.
Vertical angle to point ahead on random line in bottom of first gulch = - 15 1/4°.
Vertical angle to point ahead on random line on spur = + 5 1/2° in bottom of
Vertical angle from flag ahead to point on random

Survey of part(completion)of Subdivision lines of T.18 S. R.19 E. 67

Chains.

See diagram on page 66

line in bottom of second gulch = - 20°.

Auxiliary flag brs.N.77°24'E. from flag ahead on random line the auxiliary flag brs.N.6°7'E., 8.28 chs.dist.; all bearings checked by direct readings of the solar and all angles checked by deflection. A longer base is impracticable.

Dist.on random line,N.89°52'E., = 3.62 chs..
Dist. by triangulation,N.89°52'E., = 36.30 "
39.92 chs.

39.92 Triangulation point. Continue line and measurement by chaining.

40.00 Set temp. 1/4 sec.cor.

48.84 Discontinue chaining,as the remainder of the random line passes over precipitous broken slopes, which renders chaining impracticable. Triangulate as follows:

Vertical angle to flag ahead on random line at a point 3 lks. N.of the sec.cor.= - 28°.

Vertical angle to point ahead on random line in bottom of first gulch = -39 1/2°.

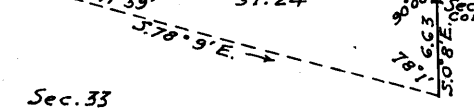
Vertical angle to point ahead on random line on top of spur = -29 1/2°.

Vertical angle from sec.cor. to bottom of second gulch = - 12 1/2°.

Auxiliary flag brs.S.78°9'E.;from flag ahead on random line the auxiliary flag brs.S.0°8'E. 6.63 chs.dist.; all bearings checked by direct readings of the solar,and all angles checked by deflection. A longer base is impracticable.

Sec.28

48.84 N.89°52'E. Random Sec.Line 31.24



Sec.33

Dist.on random line, N.89° 52'E., = 48.84 chs.
Dist. by triangulation N.89°52'E., = 31.24 chs.

80.08 chs.

80.08 Intersect N. and S. line, 3 lks.N.of the cor.of secs.27, 28, 33 and 34.

Thence, S.89°53'W., on a true line, bet:secs.28 and 33.

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

Measurement by triangulation to 31.24 ch.station, as hereinbefore described.

2.80 Descend about 40 ft.,over steep S.slope, to (Approximate) Wash,10 lks.wide, in gulch, course SE. Ascend about 380 ft.,over N.E.slope.

11.00 (Approximate) Spur,slopes SE.

Ascend about 95 ft.,over steep S.slope,to

19.00 (Approximate) Wash, 10.lks.wide, in gulch, course SE.

Ascend about 660 ft., over cliffs,bearing N. and S.,facing E.

31.24 Triangulation point, At top of cliffs. Continue line and measurement by chaining.

Ascend 31 ft., over E.slope,to

32.34 Main ridge of the Whetstone Mountains, brs.. N. and S.

Descend 157 ft., over W.slope,to

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

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Chains.

No bearing trees available. Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
 Descend slightly over W. slope, to
 40.16 Discontinue chaining. Measurement to 76.46 ch. station by triangulation, as hereinbefore described.
 Descend about 120 ft., over W. slope, to
 45.00 (Approximate) Wash, 10 lks. wide, in gulch, course NW. near head.
 Descend about 20 ft., over steep N. slope, to
 52.00 (Approximate) Spur, slopes NW.
 Descend about 375 ft., over SW. slope.
 64.00 (Approximate) Wash, 25 lks. wide, in gulch, course NW.
 Ascend about 220 ft., over NE. slope, to
 76.46 Triangulation point. Continue line and measurement by chaining.
 Descend 53 ft., over N. slope, to
 80.08 The cor. of secs. 28, 29, 32 and 33, on point of spur, sloping NW.
 Land, mountainous.
 Soil, stony, 3rd and 4th rate.
 Timber, oak, juniper and pine.
 Undergrowth, scrub oak and mountain mahogany.
 Good grass.

N. $0^{\circ}2'W.$, bet. secs. 28 and 29.

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

.65 Descend slightly over N. slope, to
 Discontinue chaining owing to precipitous slopes of a canyon, and triangulate as follows:

Vertical angle to flag ahead on sec. line in bottom of canyon = $-33\frac{1}{4}^{\circ}$.

Vertical angle to another flag ahead on sec. line on top of spur = -5° ; auxiliary flag brs. N. $24^{\circ}7'E.$, from flag ahead on sec. line on spur the auxiliary flag brs. N. $89^{\circ}58'E.$, 15.00 chs. dist.; and from the auxiliary flag, the flag on sec. line in bottom of canyon brs. S. $35^{\circ}1'W.$; all bearings checked by direct readings of the solar, and all angles checked by deflection.

Dist. on sec. line, N. $0^{\circ}2'W.$ = 00.65 chs.

Dist. by triangulation on sec. line, N. $0^{\circ}2'W.$ = 33.45 "

34.10 "

Dist. by triangulation on return measurement, S. $0^{\circ}2'E.$, = 21.45 "

12.65 "

12.65 Triangulation point. Wash, 15 lks. wide, in bottom of canyon, course NW. about 520 ft., below sec. cor.
 Continue line and measurement by triangulation,
 Ascend 330 ft., over SW. slope.

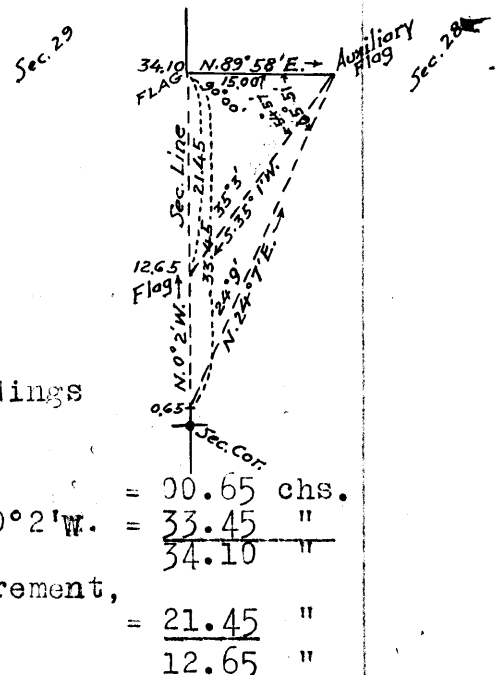
34.19 Triangulation point on spur, sloping NW. Descend 5 ft., over NE. slope, to

34.51 Triangulation point of a triangulated measurement herein after described.

Continue line and measurement by chaining.

38.85 Descend 197 ft. over NE. slope.
 Wash, 10 lks. wide, in bottom of canyon, course N. $70^{\circ}W.$
 Ascend 29 ft., over S. slope, to

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 5 ins. in the ground to bed rock, deposit a stone marked with a cross (x) at base of post, and raise a mound of stone around post, for $\frac{1}{4}$ sec. cor., marked on brass cap,

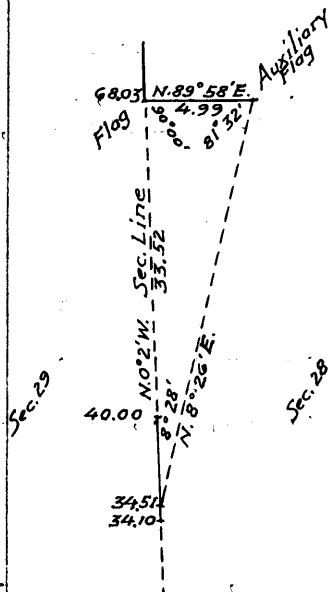


Survey of part (completion) of Subdivision lines of T. 18 S., R. 19 E., 69

Chains.

S29 | S28
 1922

No bearing trees available.
 Discontinue chaining owing to precipitous slopes beyond this $\frac{1}{4}$ sec. cor. Triangulate from 34.51 ch. station on sec. line as follows:



- Vertical angle to flag ahead on sec. line = + 9°.
- Vertical angle to point on sec. line on point of spur = +1°.
- Vertical angle from flag ahead on sec. line to point on sec. line in bottom of canyon at approximately 58.00 ch. station = - 25°.

From 34.51 ch. station on sec. line, auxiliary flag brs. N. 8° 26' E.

From flag ahead on sec. line, the auxiliary flag brs. N. 89° 58' E. 4.99 chs. dist.; all bearings checked by direct readings of the solar and all angles checked by deflection. It is impracticable to secure a longer base.

Dist. on sec. line, N. 0° 2' W. = 34.51 chs.
 Dist. by triangulation on sec. line, N. 0° 2' W. = 33.52 "
 68.03 "

- 49.00 (Approximate) Point of spur, slopes SW. about 180 ft. above $\frac{1}{4}$ sec. cor.
- 58.00 Ascend about 30 ft., over steep W. slope, to (Approximate) Wash, 10 lks. wide in bottom of canyon, course SW.
- 68.03 Ascend about 310 ft., over SE. slope, to Triangulation point. Continue line and measurement by chaining.
- 73.42 Ascend 65 ft., over SE. slope, to Spur, slopes S. 60° W.
- 80.00 Descend 124 ft., over NW. slope, to Set an iron post, 3 ft. long, 2 ins. in diam., 20 ins. in the ground to bed rock, deposit a stone marked with a cross (x) at base of post, and raise a mound of stone around post for cor. of secs. 20, 21, 28 and 29, marked on brass cap,

T18S | R19E
 S20 | S21
 S29 | S28
 1922

No bearing trees available.
 Land, mountainous.
 Soil, stony, 3rd and 4th rate.
 Timber, oak.
 Undergrowth, scrub oak and mountain mahogany.
 Good grass.

- 40.00 N. 89° 53' E., on a random line, bet. secs. 21 and 28. Set temp. $\frac{1}{4}$ sec. cor.
- 80.16 Intersect N. and S. line, 12 lks. N. of the cor. of secs. 21, 22, 27 and 28:
 Thence,
 S. 89° 58' W., on true line, bet. secs. 21 and 28.

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Chains.

- Over mountainous land, thru dense timber and undergrowth.
 Descend 15 ft., over NW. slope.
 .80 Head of gulch, course NE.
 Ascend 315 ft., over E. slope,
 7.94 Spur, slopes N. 40° E.
 Descend 82 ft., over NW. slope.
 15.84 Wash, 10 lks. wide, in gulch, course NE, near head.
 Ascend 22 ft., over NE. slope, to
 18.85 Ridge, brs. NW. and SE.
 Ascend 40 ft., over S. slope, to
 23.81 Head of gulch, course SE.
 Ascend 372 ft., over SE. slope, to
 34.09 Same ridge, brs. NE. and SW.
 Descend 44 ft., over NW. slope, to
 40.08 Set an iron post, 3 ft. long, 1 in. in diam., 27 ins. in
 the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$ S 21
 S 28
 1922

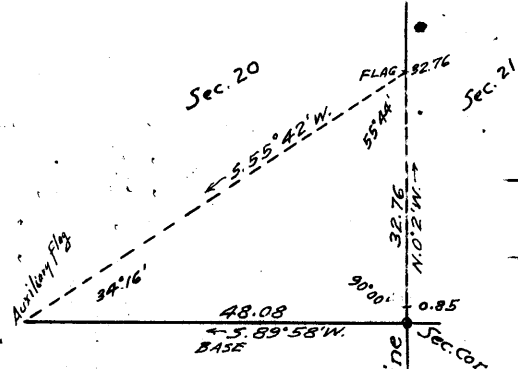
from which,

- A juniper, 18 ins. in diam., brs. N. 83° W., 24
 lks. dist., marked $\frac{1}{4}$ S 21 BT.
 An oak, 24 ins. in diam., brs. S. 17° E., 22 lks.
 dist., marked $\frac{1}{4}$ S 28 BT.
 Descend 10 ft., over N. slope, to
 44.73 Head of gulch, course N. 20° E.
 Ascend 441 ft., over NE. slope.
 52.69 Main ridge of the Whetstone Mountains, brs. N. 25° W. and S.
 25° E.
 Descend 271 ft., over SW. slope, to
 67.41 Head of gulch, course SW.
 Descend 12 ft., over S. slope, to
 69.10 Spur, slopes SW.
 Descend 412 ft., over NW. slope, to
 80.16 The cor. of secs. 20, 21, 28 and 29.
 Land, mountainous.
 Soil, stony, 3rd and 4th rate.
 Timber, juniper, pine and oak.
 Undergrowth, scrub oak and mountain mahogany.
 Good grass.

N. 0° 2' W., bet. secs. 20 and 21.

- Over mountainous land, thru dense timber and undergrowth.
 Descend 30 ft., over NW. slope.
 .85 Wash, 12 lks. wide, course SW.
 Beyond this point, the sec. line passes over precipitous
 SW. slope, and chaining is impracticable; therefore, trian-
 gulate from the cor. of secs. 20, 21, 28 and 29, as fol-
 lows:

Vertical angle to flag ahead
 on sec. line at top of ridge
 = + 17°; auxiliary flag
 brs. S. 89° 58' W., 48.08 chs.
 dist.; from flag ahead on sec.
 line, the auxiliary flag brs.
 S. 55° 42' W.; all bearings
 checked by direct readings of
 the solar, and all angles checked
 by deflection.

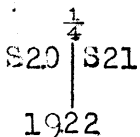


- Dist. by triangulation on sec. line, N. 0° 2' W. = 32.76 chs.
 32.76 Triangulation point on ridge bearing N. 80° W. and S. 80° E.
 about 660 ft. above sec. cor. Continue line and measure-
 ment by chaining.
 Descend 167 ft., over N. slope, to

Survey of part (Completion) of Subdivision lines of T. 18 S., R. 19 E. 71

Chains.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 14 ins. in the ground to bed rock, and raise a mound of stone around post, for $\frac{1}{4}$ sec. cor., marked on brass cap,



from which,

A pine, 6 ins. in diam., brs. N. 45° E., 2 lks. dist., marked $\frac{1}{4}$ S 21 BT.

A pine, 10 ins. in diam., brs. S. 85° W., 10 lks. dist., marked $\frac{1}{4}$ S 20 BT.

58.08 Descend 744 ft., over N. and NW. slopes, to Wash, 20 lks. wide, in gulch, course N. 40° W. near head. Ascend 26 ft., over SW. slope.

60.94 Point of spur, slopes NW.

Descend 144 ft., over N. slope.

67.54 Wash, 10 lks. wide, in gulch, course N. 40° W.

Ascend 35 ft., over SW. slope.

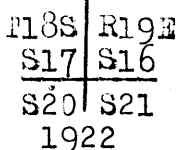
73.51 Point of spur, slopes N. 35° W.

Descend 104 ft., over N. slope.

78.92 Wash, 10 lks. wide in gulch, course N. 45° W.

Ascend 12 ft., over SW. slope, to

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 27 ins. in the ground for cor. of secs. 16, 17, 20 and 21, marked on brass cap,



from which,

A pine, 12 ins. in diam., brs. N. 29° E., 32 lks. dist., marked T18S R19E S16 BT.

A pine, 10 ins. in diam., brs. S. 53 $\frac{1}{4}$ ° E., 22 lks. dist., marked T18S R19E S21 BT.

A pine, 6 ins. in diam., brs. S. 39 $\frac{1}{2}$ ° W., 67 lks. dist., marked T18S R19E S20 BT.

A pine, 12 ins. in diam., brs. N. 52 $\frac{1}{4}$ ° W., 38 lks. dist., marked T18S R19E S17 BT.

Land, mountainous.

Soil, stony, 3rd and 4th rate.

Timber, juniper, pine and oak.

Undergrowth, mountain mahogany, manzanita and scrub oak.

Good grass.

N. 89° 58' E., on a random line, bet. secs. 16 and 21. The W. $\frac{1}{2}$ of this line passes over the head of a canyon, where the slopes are so precipitous and broken as to render chaining impracticable; therefore, triangulate as follows:

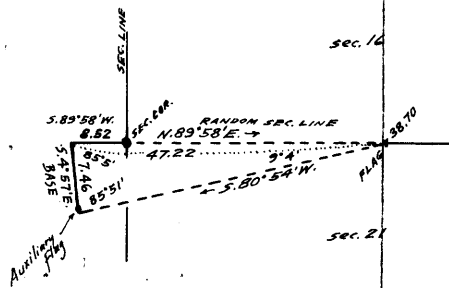
From point 8.52 chs. S. 89° 58' W. from cor. of secs. 16, 17, 20 and 21, auxiliary flag brs. S. 4° 57' E., 7.46 chs. dist.

Vertical angle from point 8.52 chs. S. 89° 52' W. from sec. cor. to flag ahead on random line = + 13°.

Vertical angle to sec. cor. = 0°.

Vertical angle from sec. cor. to point ahead on random line at top of spur = + 17 $\frac{1}{2}$ °.

From flag ahead on random line the auxiliary flag brs. S. 80° 54' W.



72. Survey of part (completion) of Subdivision lines of T.18 S., R.19 E.

Chains.

Vertical angle from flag on random line to point on line in bottom of canyon = -25° ; all bearings checked by direct readings of the solar and all angles checked by deflection. It is impracticable to secure a longer base.

Dist. by triangulation, N. $89^{\circ}58'E.$; = 47.22 chs.
 Dist. S. $89^{\circ}58'W.$, from sec. cor. = 8.52 "
 Dist. by triangulation, N. $89^{\circ}58'E.$ from sec. cor. 38.70 "

38.70 Triangulation point. Continue line and measurement by chaining.

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

79.78 Intersect N. and S. line, 21 lks. N. of the cor. of secs. 15, 16, 21 and 22.

Thence,

N. $89^{\circ}53'W.$, on true line, bet. secs. 16 and 21.

Over mountainous land, thru. dense timber and undergrowth.

Descend 48 ft., over NW. slope.

1.51 Head of gulch, course N. $35^{\circ}E.$

Ascend 252 ft., over NE. slope.

7.79 Spur, slopes NE.

Ascend 12 ft., over N. slope, to

10.88 Head of gulch, course NE.

Ascend 189 ft., over NE. slope.

17.94 Spur, slopes N. $30^{\circ}E.$

Descend 210 ft., over NW. slope.

25.91 Wash, 10 lks. wide, in gulch, course N. $20^{\circ}E.$ near head.

Ascend 68 ft., over NE. slope.

28.13 Spur, slopes NE.

Descend 24 ft., over NW. slope.

30.20 Head of gulch, course NE.

Ascend 131 ft., over NE. slope.

34.13 Spur, slopes NE.

Descend 7 ft., over NW. slope.

36.53 Wash, 10 lks. wide, in gulch, course NE. near head.

Ascend 107 ft., over NE. slope, to

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

$\frac{1}{4}$ S 16

S 21

1922

from which,

An oak, 5 ins. in diam., brs. N. $1^{\circ}E.$, 30 lks.

dist., marked $\frac{1}{4}$ S 16 BT.

A pine, 6 ins. in diam., brs. S. $17\frac{1}{4}^{\circ}W.$, 18 lks.

dist., marked $\frac{1}{4}$ S 21 BT.

Ascend 12 ft., over NE. slope.

41.08 Ridge, brs. N. and S. Discontinue chaining, and triangulate measurement to sec. cor., as hereinbefore described.

Descend about 555 ft., over W. slope, to

59.08 (Approximate) Wash, 20 lks. wide in bottom of canyon, course N. $50^{\circ}W.$ near head. Asc. about 100 ft., over NE. slope.

67.08 (Approximate) Spur, slopes NW.

Descend about 260 ft., over W. slope, to

79.78 The cor. of secs. 16, 17, 20 and 21.

Land, mountainous.

Soil, stony, 3rd and 4th rate.

Timber, juniper, pine and oak.

Undergrowth, manzanita, mountain mahogany and scrub oak.

Fair grass.

N. $9^{\circ}20'W.$, on random line, bet. secs. 16 and 17.

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

80.08 Intersect E. and W. line, 12 lks. W. of the cor. of secs. 8, 9, 16 and 17, established at 40.00 chs. W. from the

Survey of part(completion)of Subdivision lines of T.18 S..R.10 E.73

Chains.

original $\frac{1}{4}$ sec.cor.of secs.9 and 16,as hereinafter de-
scribed.

Thence,
S.0°15'E.,on true line,bet.secs.16 and 17.
Over mountainous land,thru.dense timber and undergrowth.
Descend 14 ft.,over SW.slope.
1.79 Wash,20 lks.wide, course NW.
Ascend 393 ft.,over NE.slope:
24.42 Ridge, brs.NW.and SE.
Descend 172 ft.,over SW.slope,to
35.18 Head of gulch,course SW.
Ascend 15 ft.,over NW.slope.
36.98 Spur,slopes SW.
Descend 48 ft., over SE.slope,to
40.04 Set an iron post,3 ft.long,1 in.in diam.,15 ins.in the
ground to bed rock,and raise a mound of stone around
post,for $\frac{1}{4}$ sec.cor.,marked on brass cap,

S17 | S16

1922

from which,
An oak, 15 ins.in diam.,brs.S.19°E.,17 lks.
dist., marked $\frac{1}{4}$ S 16 BT.
An oak,6 ins.in diam.,brs.S.86°W.,38 lks.
dist., marked $\frac{1}{4}$ S 17 BT.

41.85 Descend 49 ft., over SE. slope.
Wash,10 lks.wide, in gulch, course SW.
Ascend 171 ft., over NW.slope.
46.98 Point of spur,slopes SW.
Descend 28 ft.,over SW.slope,to
50.46 Wash,10 lks.wide,in gulch, course W.
Ascend 111 ft.,over N.slope.
53.18 Spur,slopes W.
Descend 62 ft.,over S.slope.
59.78 Wash,40 lks.wide,in gulch, course W.
Ascend 162 ft.,over N.slope.
65.13 Point of spur,slopes NE.
Ascend 52 ft.,over E.slope.
70.07 Descend 32 ft., over SE.slope.
71.39 Same wash,40 lks.wide,course NE.
Ascend 148 ft.,over NW.and W.slopes,to
80.08 The cor.of secs.16,17,20 and 21.
Land, mountainous.
Soil;stony, 3rd rate.
Timber, juniper, pine and oak.
Undergrowth, scrub oak, manzanita and mountain mahogany.
Good growth of bunch grass.

From the original $\frac{1}{4}$ sec.cor.of secs.9 and 16,hereinbefore
described,

West, on true line, bet. secs.9 and 16 (W. $\frac{1}{2}$).
Over mountainous land, thru.dense timber and undergrowth.
Descend 145 ft., over W.slope.
5.00 Wash,10 lks.wide, in gulch, course N. 10° W.
Ascend 177 ft., over E.slope.
13.46 Spur, slopes N.5° W.
Descend 171 ft., over W.slope.
23.00 Wash,20 lks.wide, in gulch, course N.10°E.
Ascend 83 ft., over E.slope.
27.80 Spur,slopes N.15°E.
Descend 78 ft., over W.slope,to
40.00 Set an iron post,3 ft.long, 2 ins.in diam.,27 ins.in the
ground, for cor.of secs. 8,9,16 and 17, marked on
brass cap,

T18S | R19E

S 8 | S 9

S17 | S16

1922

74 Survey of part (completion) of Subdivision lines of T.18 S. R.10 E.

Chains.

from which,

An oak, 8 ins. in diam., brs. N. 66 $\frac{1}{2}$ ° E., 41 lks.
dist., marked T18S R19E S9 BT.An oak, 12 ins. in diam., brs. S. 40° E., 121 lks.
dist., marked T18S R19E S16 BT.An oak, 15 ins. in diam., brs. S. 41 $\frac{1}{2}$ ° W., 20 lks.
dist., marked T18S R19E S17 BT.An oak, 8 ins. in diam., brs. N. 55° W., 80 lks.
dist., marked T18S R19E S8 BT.

Land, mountainous.

Soil, stony, 3rd rate.

Timber, oak and juniper.

Undergrowth, scrub oak and manzanita.

Good grass.

40.00

From the cor. of secs. 4, 5, 8 and 9, hereinafter described,
S. 0° 2' E., on random line, bet. secs. 8 and 9.

79.88

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

Fall 18 lks. W. of the cor. of secs. 8, 9, 16 and 17.

Thence,

N. 0° 10' W., on true line, bet. secs. 8 and 9.

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

18.38

Descend 130 ft., over W. and NW. slopes, to

Wash, 10 lks. wide in gulch, course NE.

Ascend 30 ft., over SE. slope.

21.64

Spur, slopes N. 30° E.

26.00

Descend 76 ft., over steep NW. slope, to

Foot of steep descent, brs. NE and SW. Leave mountainous,
and enter rolling land.

37.61

Descend 132 ft., over NW. slope.

Wash, 10 lks. wide, course N. 40° E.

Ascend 11 ft., over SE. slope, to

39.94

(Midpoint) Spur, slopes NE. Set an iron post, 3 ft. long,
1 in. in diam., 8 ins. in the ground to bed rock, and
raise a mound of stone around post, for $\frac{1}{4}$ sec. cor.,
marked on brass cap,
$$\frac{1}{4}$$

$$S 8 | S 9$$

1922.

from which,

An oak, 10 ins. in diam., brs. N. 39 $\frac{1}{2}$ ° E., 51 lks.
dist., marked $\frac{1}{4}$ S 9 BT.An oak, 10 ins. in diam., brs. S. 10° W., 78 lks.
dist., marked $\frac{1}{4}$ S 8 BT.

42.92

Descend 37 ft., over NW. slope.

Wash, 10 lks. wide, course N. 40° E.

51.50

Descend 20 ft., over NE. slope, to

Wash, 20 lks. wide, course N. 50° E.,

Ascend 120 ft., over SE. slope.

62.49

Wire fence, brs. E. and W.

65.35

Spur, slopes NE.

Descend 165 ft., over NW. slope, to

79.88

Intersect the cor. of secs. 4, 5, 8 and 9, hereinafter de-
scribed.

Land, rolling and mountainous.

Soil, stony and gravelly, 3rd rate.

Timber, oak and juniper.

Undergrowth, scrub oak and manzanita.

Good grass.

From the original $\frac{1}{4}$ sec. cor. of secs. 4 and 9, hereinbefore
described,West, on true line, bet. secs. 4 and 9 (W. $\frac{1}{2}$).

Over rolling land, thru. scattering timber and undergrowth.

Descend 13 ft., over NW. slope.

Survey of part(completion)of Subdivision lines of T.18 S. R.19 E. 75

Chains.

- 2.19 Wash, 10 lks. wide, course N. 30°W.
Ascend 80 ft., over NE. slope.
- 10.98 Point of spur, slopes NW.
Descend 110 ft., over NW. slope.
- 11.48 Wire fence, brs. N. and S.
- 26.98 Wash, 30 lks. wide, course N. 35°E.
Ascend 16 ft., over NE. slope.
- 30.13 Point of spur, slopes NE.
Descend 30 ft., over NW. slope.
- 33.70 Wash, 10 lks. wide, course N. 25°E.
Ascend 40 ft., over E. slope.
- 37.46 Spur, slopes NE.
Descend 14 ft., over NW. slope, to
- 40.00 Set an iron post 3 ft. long, 2 ins. in diam., 27 ins. in the
ground for cor. of secs. 4, 5, 8 and 9, marked on brass
cap,

T18S	R19E
S 5	S 4
S 8	S 9

1922

from which,

- An oak, 10 ins. in diam., brs. N. 51³/₄°E., 40 lks.
dist., marked T18S R19E S4 BT.
- An oak, 10 ins. in diam., brs. S. 32¹/₂°E., 80 lks.
dist., marked T18S R19E S9 BT.
- An oak, 12 ins. in diam., brs. S. 15°W., 39 lks.
dist., marked T18S R19E S8 BT.
- An oak, 8 ins. in diam., brs. N. 55¹/₄°W., 62 lks.
dist., marked T18S R19E S5 BT.

Land, rolling.

Soil, stony, 3rd rate.

Timber, oak and mesquite.

Undergrowth, scrub oak and manzanita.

Fair grass.

- 40.00 N. 0° 16'E., on a random line, bet. secs. 4 and 5.
Set temp. ¹/₄ sec. cor.
- 78.11 Intersect N. bdy. of Tp., 2 lks. E. of the reestablished cor.
of secs. 4, 5, 32 and 33, hereinbefore described.
Thence,
S. 0° 15'W., on true line, bet. secs. 4 and 5.
Over rolling land, thru. dense timber and undergrowth.
Ascend 35 ft., over NE. slope.
- 9.16 Spur, slopes NW.
Descend 23 ft., over SW. slope.
- 11.64 Head of wash, 10 lks. wide, course N. 30°W.
Ascend 76 ft., over NW. slope.
- 36.80 Spur, slopes NE.
Descend slightly over SE. slope, to
- 38.11 Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in
the ground, to bedrock, supported in a mound of stone,
for ¹/₄ sec. cor., marked on brass cap,

S 5	S 4
-----	-----

1922

from which,

- An oak, 15 ins. in diam., brs. N. 29³/₄°E., 23 lks.
dist., marked ¹/₄ S 4 BT.
- An oak, 8 ins. in diam., brs. S. 32¹/₂°W., 106 lks.
dist., marked ¹/₄ S 5 BT.
- Descend 5 ft., over SE. slope, to
- 39.63 Wash, 10 lks. wide, course NE.
Ascend 61 ft., over N. slope.
- 47.07 Spur, slopes NW.
Descend 105 ft., over SW. slope.
- 59.29 Wash, 30 lks. wide, course N. 50°W.

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Chains.

- 65.65 Ascend 65 ft., over NE.slope.
Spur, slopes NW.
Descend 15 ft., over SW.slope.
- 68.15 Wash, 10 lks.wide, course NW.
Ascend 40 ft., over NE.slope.
- 73.11 Spur, slopes NW.
Descend 23 ft., over SW.slope.
- 76.34 Wash, 20 lks.wide, course N.50°W.,
Ascend 21 ft., over NW.slope, to
- 78.11 The cor. of secs. 4, 5, 8 and 9.
Land, rolling.
Soil, stony, 3rd and 4th rate.
Timber, oak and mesquite.
Undergrowth, scrub oak.
Good grass.

From the reestablished cor. of secs. 31 and 32 on S: bdy.
of Tp., hereinbefore described,
N.0°3'W., bet. secs. 31 and 32.
Over mountainous land, thru scattering timber and dense
undergrowth.

- 5.69 Ascend 128 ft., over S.slope.
Spur, slopes SW.
Descend 47 ft., over NW.slope.
- 10.39 Wash, 10 lks.wide, course SW.
Ascend 500 ft., over SE.slope.
- 24.95 Spur, slopes SW.
Descend 325 ft., over NW.slope.
- 39.77 Wash, 10 lks.wide, in gulch, course SW.
Ascend 40 ft., over SE.slope, to
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 14 ins. in the
ground to bed rock, supported in a mound of stone for
¼ sec. cor., marked on brass cap,

S31	S32
-----	-----

1922

from which,

An oak, 6 ins. in diam., brs. S.43°E., 28 lks.
dist., marked ¼ S32 BT.

An oak, 4 ins. in diam., brs. S.60½°W., 36 lks.
dist., marked BT.

- 48.22 Ascend 160 ft., over SE.slope.
Spur, slopes SW.
Descend 30 ft., over NW.slope, to
- 49.87 Head of gulch, course SW.
Ascend 227 ft., over S.slope.
- 59.55 Ridge, brs. N.70°E. and S.70°W.
Descend 145 ft., over NW.slope.
- 63.24 Wash, 10 lks.wide, in gulch, course NE.
Descend 200 ft., over E.slope, to
- 71.20 Point of spur, slopes NE+
- 80.00 Descend 220 ft., over steep NE.slope, to
Set an iron post, 3 ft. long, 2 ins. in diam., 10 ins. in the
ground to bed rock, deposit a stone marked with a
cross (x) at base of post, and raise a mound of stone
around post, for cor. of secs. 29, 30, 31 and 32, marked
on brass cap,

T18S	R19E
------	------

S30	S29
-----	-----

S31	S32
-----	-----

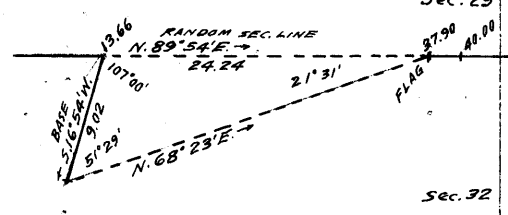
1922

No bearing trees available.
Land, mountainous.
Soil, stony, 3rd rate.
Timber, oak and juniper.
Undergrowth, scrub oak and mountain mahogany brush.
Fair grass.

Survey of part(completion)of Subdivision lines of T.18 S.,R.19 E. 77

Chains.

13.66 N.89°54'E., on a random line, bet. secs.29 and 32.
 Triangulation point on spur sloping NW. Beyond this point, precipitous slopes in a gulch, prevent chaining; therefore, triangulate as follows:
 Set flag ahead on random line, the vertical angle to which, is + 8°.
 Vertical angle to point ahead on random line in bottom of gulch is - 15°.
 From 13.66 ch.station, measure a Base S.16°54'W., 9.02 chs.
 From SW.end of Base, the flag brs.N.68° 23' E.



Dist.on random sec.line N.89°54'E.=13.66 chs.
 Dist.by triangulation,N.89°54'E. =24.24 chs.
 Total distance, =37.90 chs.

37.90 Triangulation point. Continue line and measurement by chaining.

40.00 Set temp. 1/4 sec.cor.

79.80 Intersect N. and S. line, 14 lks.N.of the cor.of secs. 28,29, 32 and 33.

Thence,
 West,on true line, bet. secs.29 and 32.
 Over mountainous land, thru. scattering timber and dense undergrowth.

1.85 Descend 34 ft.over NW.slope.
 Bottom of gulch,20 lks.wide,course N.20°E.
 Ascend 95 ft.,over E.slope.

7.07 Spur,slopes N.10°E.
 Descend 203 ft.,over NW.slope.

18.90 Bottom of gulch,20 lks.wide, course N.30°E.
 Ascend 243 ft., over E.slope.

28.68 Point of spur,brs.N.20°E.
 Descend 67 ft., over NW.slope.

33.45 Bottom of gulch,10 lks.wide, course N.20°E.
 Ascend 151 ft., over NE.slope,to

39.90 Set an iron post, 3 ft.long, 1 in. in diam., 15 ins.in the ground to bed rock, deposit a stone marked with a cross (x) at base of point,and raise a mound of stone around post, for 1/4 sec.cor., marked on brass cap,

1/4 S 29
 S 32
 1922

No bearing trees available.
 Ascend 40 ft.,over NE.slope.

41.90 Triangulation point on ridge, bearing NW. and SE.Discontinue chaining. Measurement across gulch by triangulation, hereinbefore described.

56.00 Descend about 400 ft., over steep SW.slope.
 (Approx.) Bottom of gulch, 15 lks.wide,course N.30°W.
 Ascend about 180 ft., over NE.slope,to

66.14 Triangulation point. Continue line and measurement by chaining.

67.56 Ascend 25 ft., over NE.slope.
 Spur, slopes N.50°W.

74.28 Descend 172 ft., over SW.slope.
 Wash,5 lks.wide, course NW.

75.26 Ascend 11 ft.,over NE.slope...
 Spur,slopes NW.

77.23 Descend 73 ft.,over SW.slope.
 Wash,10 lks.wide, course N.50°W.

79.80 Ascend 25 ft., over NE.slope,to
 The cor.of secs.29,30,31 and 32.

Land, mountainous.
 Soil, stony, 3rd and 4th rate.
 Timber, oak and pine.
 Undergrowth, scrub oak and mountain mahogany.
 Fair grass.

78 Survey of part (completion) of Subdivision lines of T.18 S., R.19 E.

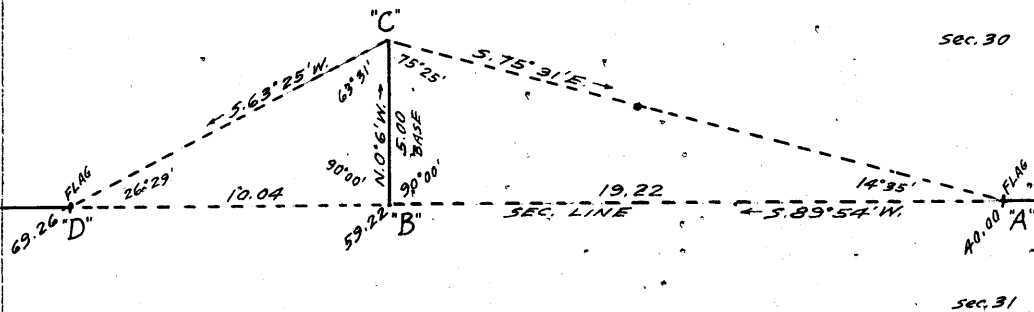
Chains.

- S. $89^{\circ}54'W.$, on true line, bet. secs. 30 and 31.
 Over mountainous land, thru. very scattering timber and dense undergrowth.
 Descend 27 ft., over NW. slope.
 .80 Wash, 10 lks. wide, in bend, course N. from SW.
 Ascend 260 ft., over NE. slope.
 17.10 Spur, slopes NW.
 Descend 430 ft., over SW. slope, to
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 5 ins. in the ground to bed rock, deposit a stone, marked with a cross (x) at base of post, and raise a mound of stone around post, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$ S 30
 S 31
 1922

No bearing trees available.

Beyond this $\frac{1}{4}$ sec. cor., precipitous slopes render accurate chaining impracticable; therefore, triangulate as described as follows, and as shown on the diagram hereon:



- Set flag at $\frac{1}{4}$ sec. cor., indicated on diagram at "A."
 From a point ahead on sec. line indicated on diagram at "B"
 measure a Base N. $0^{\circ}6'W.$, 5.00 chs. to point "C."
 This is as long a Base as it is practicable to chain.
 Set another flag ahead on sec. line at point "D."
 Bearing "C-A" is S. $75^{\circ}31'E.$
 Bearing "C-D" is S. $63^{\circ}25'W.$
 Vertical angle from "A" to "B" is $+8^{\circ}$. and from "A" to
 point on sec. line in bottom of gulch about 7 chs. W. is
 -18° .
 Vertical angle from "B" to "D" is $+7^{\circ}$ and from "B" to
 point on sec. line in bottom of gulch about 5 chs. W.
 is -10° .

- Dist. on sec. line = 40.00 chs. S. $89^{\circ}54'W.$
 Dist. triangulated (A-B) = 19.22 chs. S. $89^{\circ}54'W.$
 Dist. from sec. cor. to
 "B" = 59.22 chs. S. $89^{\circ}54'W.$
 Dist. triangulated (B-D) = 10.04 chs. S. $89^{\circ}54'W.$
 Dist. from sec. cor. to
 "D," = 69.26 chs. S. $89^{\circ}54'W.$
 47.00 (Approx.) Bottom of gulch, 30 lks. wide, course NW., about
 150 ft. below $\frac{1}{4}$ sec. cor.
 Ascend about 180 ft., over NE. slope.
 59.22 Triangulation point at top of spur, sloping NW.
 Descend about 60 ft., over SW. slope.
 64.00 (Approx.) Bottom of gulch, 10 lks. wide, course NW.
 Ascend about 140 ft., over NE. slope.
 69.26 Triangulation point on spur, sloping NW. Continue line
 and measurement by chaining.
 Descend gradually over S. slope.
 75.26 Wash, 10 lks. wide, course NW.
 Ascend 46 ft., over N. slope, to
 77.84 Intersect W. bdy. of Tp. at a point 1.87 chs. N. $1^{\circ}4'E.$, from
 the reestablished cor. of secs. 25 and 36, T.18 S., R.18
 E., hereinbefore described.
 At point of intersection, set an iron post, 3 ft. long, 2
 ins. in diam., 18 ins. in the ground to bed rock, sup-
 ported in a mound of stone, for closing cor. of secs.

Survey of part(completion) of Subdivision lines of T.18 S., R.19 E.79
Chains.

30 and 31, marked on brass cap,

T18S	T18S
S25	S30 CC
	S31
R18E	R19E

1922

from which,

A juniper, 8 ins. in diam., brs. N.28½°E., 78 lks.
dist., marked T18S R19E S30 CC BT.

A pine, 10 ins. in diam., brs. S.17°E., 107 lks.
dist., marked T18S R19E S31 CC BT.

Land, mountainous.

Soil, stony, 3rd and 4th rate.

Timber, pine, juniper and oak.

Undergrowth, scrub oak and mountain mahogany.

Fair grass.

From cor. of secs. 29, 30, 31 and 32,
N.0°3'W., bet. secs. 29 and 30.

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

Descend 43 ft. over N. slope.

1.79 Wash, 10 lks. wide, course N.40°W.

Descend 40 ft. over NW. slope, to

8.08 Wash, 20 lks. wide, course N.50°W.

Ascend 100 ft. over SW. slope.

20.09 Spur, slopes NW.

Descend 224 ft. over steep NE. slope.

25.98 Bottom of gulch, 10 lks. wide, course NW.

Ascend 117 ft. over SW. slope.

37.05 Spur, slopes NW.

Descend 112 ft. over NE. slope, to

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 27 ins. in
the ground for ¼ sec. cor., marked on brass cap,

S30	S29
-----	-----

1922

No bearing trees available.

Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

Descend 250 ft. over NE. slope, to

48.00 Wash, 20 lks. wide, course NW.

Descend 175 ft. over NW. slope, to

60.76 Wash, 10 lks. wide, course NW.

Ascend 126 ft. over SW. slope.

73.70 Spur, slopes NW.

Descend 191 ft. over NE. slope, to

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 5 ins. in
the ground to bed rock, deposit a stone marked with a
cross (x) at base of post, and raise a mound of stone
around post, for cor. of secs. 19, 20, 29 and 30, marked
on brass cap,

T18S	R19E
S19	S20
S30	S29

1922

No bearing trees available.

Land, mountainous.

Soil, stony, 3rd and 4th rate.

Timber, oak and pine.

Undergrowth, scrub oak, manzanita and mountain mahogany.

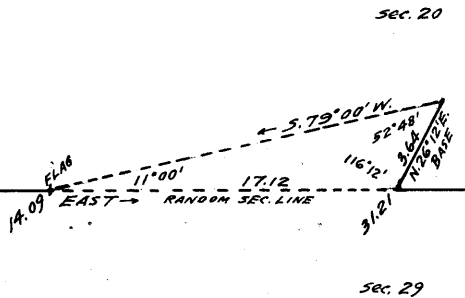
Good grass.

BOOK 3649

80 Survey of part(completion)of Subdivision lines of T.18 S. R.19 E.

Chains.

14.09 East, on random line, bet. secs.20 and 29.
Beyond this point, precipitous broken slopes prevent accurate chaining. Triangulate as follows:



Set flat at this point.
From point ahead on random line, measure a Base N.26° 12'E., 3.64 chs.
This is as long a Base, as it is practicable to chain.
From NE. end of Base, the flag brs. S.79°W.
Vertical angle from SW. end of Base to flag is -14°.
Vertical angle from flag to point ahead on random line in bottom of gulch is -10°.

Dist. on random sec. line = 14.09 chs. East.
Dist. triangulated = 17.12 chs. East.

Total distance, = 31.21 chs. East.

31.21 Triangulation point. Continue line and measurement by chaining.

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

79.76 Intersect N. and S. line, 25 lks. S. of the cor. of secs. 20, 21, 28 and 29.

Thence,
S. 89° 49' W., on true line, bet. secs. 20 and 29.
Over mountainous land, thru dense undergrowth.
Descend 35 ft., over NW. slope.

.83 Wash, 15 lks. wide, course SW.

Ascend 56 ft., over SE. slope.

15.51 Spur, slopes SW.

Descend 503 ft., over NW. slope, to

39.88 Set an iron post, 3 ft. long, 1 in. in diam., 5 ins. in the ground to bed rock, deposit a stone, marked with a cross (x) at base of post, and raise a mound of stone around post, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$ S. 20
S. 29
1922

No bearing trees available.
Descend 42 ft., over NW. slope.

43.90 Head of wash, course SW.

Ascend 15 ft., over SE. slope.

48.55 Triangulation point on spur, sloping SW. Discontinue chaining. Measurement across gulch by triangulation, hereinbefore described.

Descend about 385 ft., over NW. slope.

56.50 (Approx.) Bottom of gulch, 20 lks. wide, course S. 30° W.

Ascend about 105 ft., over SE. slope, to

65.67 Triangulation point on end of spur, sloping SW. Continue line and measurement by chaining.

Descend 168 ft., over SW. slope.

72.27 Wash, 40 lks. wide, course N. 80° W.

Ascend 37 ft., over NE. slope.

73.98 Descend 40 ft., over NW. slope.

75.39 Same wash, 40 lks. wide, in bend, course NW. from NE.

Ascend 35 ft., over NE. slope, to

79.76 The cor. of secs. 19, 20, 29 and 30.

Land, mountainous.

Soil, stony, 4th rate.

No timber.

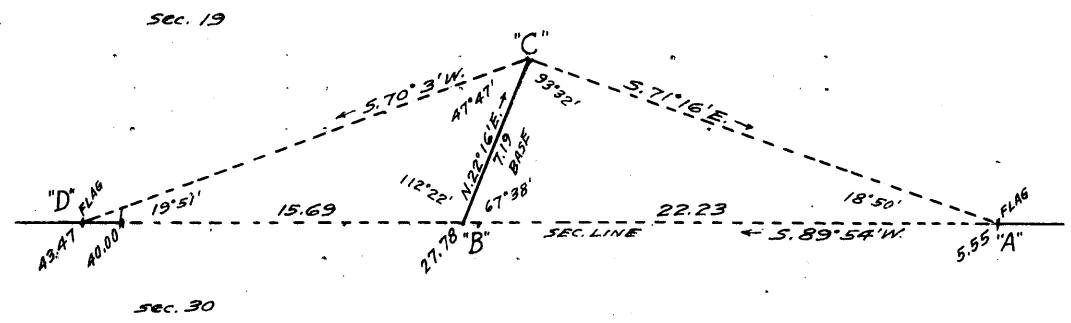
Undergrowth, scrub oak and mountain mahogany.

Fair grass.

Survey of part(completion) of Subdivision lines of T.18 S.,R.19 E. 81

Chains.

S.89°54'W., on true line, bet. secs.19 and 30.
 Over mountainous land, thru. dense undergrowth.
 Ascend 52 ft., over NE.slope.
 5.55 Point of spur, sloping NW.
 Beyond this point, the sec.line crosses precipitous broken slope, which prevent accurate chaining; therefore, triangulate as described as follows, and as shown on the diagram hereon:



Set flag at 5.55 ch.station indicated on diagram at "A."
 From a point ahead on sec.line indicated at "B" on diagram, measure a Base N.22°16'E.; 7.19 chs.to point "C".
 Set another flag ahead on sec.line at point "D."
 Bearing "C-A" is S.71°16'E.
 Bearing "C-D" is S.70°3'W.
 Vertical angle from "A" to "B" is + 4°, and from "A" to point on sec.line in bottom of gulch about 6 chs.W. is - 20°.

Vertical angle from "B" to "D" is + 5° and from "B" to point on sec.line in bottom of gulch about 4 chs.W. is - 10°.

- Dist.on sec.line = 5.55 chs.S.89°54'W.
- Dist.triangulated(A-B) = 22.23 chs.S.89°54'W.
- Dist.from sec.cor.to "B" = 27.78 chs.S.89°54'W.
- Dist.triangulated(B-D) = 15.69 chs.S.89°54'W.
- Dist. from sec.cor. to "D" = 43.47 chs.S.89°54'W.

- 11.50 (Approx.) Wash, 30 lks.wide, course NE.in bottom of gulch, about 145 ft.below 5.55 ch.station on sec.line.
- Ascend about 250 ft., over E.slope.
- 27.78 Triangulation point on spur, sloping NE.
- Descend about 50 ft., over NW. slope, to
- 32.00 (Approx.) Head of gulch, course NW.
- Ascend about 150 ft., over NE.slope.
- From triangulation point at 43.47 ch.station on sec.line, chain measurement N.89°54'E., 3.47 chs.to
- 40.00 Set an iron post, 3 ft.long, 1 in.in diam., on surface rock, deposit a stone marked with a cross (x) at base of post, and raise a mound of stone around post, for 1/4 sec.cor., marked on brass cap,

1/4 S 19
 S 30
 1922

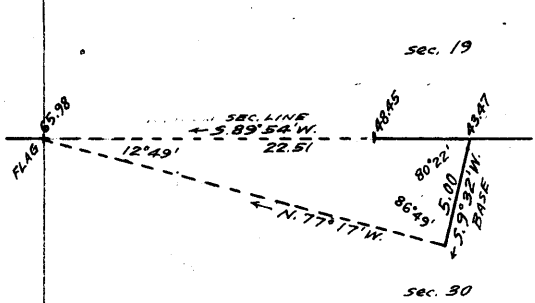
No bearing trees available.
 Thence,
 S.89°54'W., on true line, bet.secs.19 and 30, chaining continued measurement from sec.cor.

- 43.47 Ascend 80 ft., over NE. slope, to Triangulation point on spur, sloping NW. Continue chaining.
- Descend 71 ft., over SW.slope.
- 46.27 Wash, 10 lks.wide, course NW.
- Ascend 42 ft., over NE.slope, to
- 48.45 Point of spur, slopes NW. Beyond this point, the sec.line passes over steep broken N.slopes where chaining is impracticable; therefore, triangulate as follows:

BOOK 3649

82-Survey of part (completion) of Subdivision lines of T.18 S. R.18 E.

Chains.



Set flag ahead on sec. line.
From 43.47 ch. station on sec. line, measure a Base, S. 9° 32' W., 5.00 chs.

It is impracticable to chain a longer Base.

From SW. end of Base the flag brs. N. 77° 17' W.

From NE. end of Base, the vertical angle to flag is 0°.

Dist. on sec. line = 43.47 chs. S. 89° 54' W.

Dist. triangulated = 22.51 chs. S. 89° 54' W.

Total dist., = 65.98 chs. S. 89° 54' W.

65.98 Triangulation point. Continue line and measurement by chaining. Enter scattering timber.

76.58 Ascend 155 ft., over NE. and N. slopes, to intersect the W. bdy. of the Tp. at a point 4.28 chs. N. 0° 17' W. from the reestablished cor. of secs. 24 and 25, T. 18 S., R. 18 E., hereinbefore described.

At point of intersection, Set an iron post, 3 ft. long, 2 ins. in diam., 27 ins. in the ground, for closing cor. of secs. 19 and 30, marked on brass cap,

T18S	T18S
S24	S19 CC
R18E	S30
	R19E

1922

from which,

A pine, 8 ins. in diam., brs. S. 78½° E., 44 lks. dist., marked T18S R19E, S30 CC BT.

No other bearing trees available.

Raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor.

Land, mountainous.

Soil, stony, 3rd and 4th rate.

Timber, oak and pine.

Undergrowth, scrub oak and mountain mahogany.

Fair grass.

From cor. of secs. 19, 20, 29 and 30, N. 0° 3' W., bet. secs. 19 and 20.

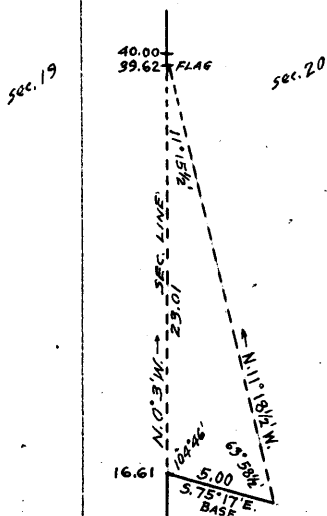
Over mountainous land, thru dense undergrowth.

Descend 60 ft., over NE. slope.

1.78 Wash, 40 lks. wide, in gulch, course NW.

Ascend 247 ft., over SW. slope.

16.61 Point of spur, slopes SW. Beyond this point, the sec. line crosses a deep gulch, the sides of which are too precipitous to chain; therefore, triangulate as follows:



From 16.61 ch. station on sec. line, measure a Base, S. 75° 17' E., 5.00 chs., which is as long a Base, as it is practicable to chain.

Set flag ahead on sec. line. From SE. end of Base, the flag brs. N. 11° 18½' W.

From NW end of Base, the vertical angle to flag is + 10° and to point ahead on sec. line in bottom of gulch is - 20°.

Dist. on sec. line = 16.61 chs. N. 0° 3' W.

Dist. triangulated = 23.01 chs. N. 0° 3' W.

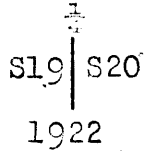
Total distance, = 39.62 chs. N. 0° 3' W.

26.60 (Approx.) Bottom of gulch, 30 lks. wide, course SW., about 240 ft. below 16.61 ch. station on sec. line.

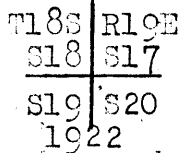
Survey of part (completion) of Subdivision lines of T.18S., R.19E. 83

Chains

- 39.62 Ascend about 500 ft., over S. slope, to Triangulation point. Continue line and measurement by chaining.
- 40.00 Ascend slightly over S. slope, to Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground to bed rock, deposit a stone, marked with a cross (x) at base of post, and raise a mound of stone around post, for $\frac{1}{4}$ sec. cor., marked on brass cap,



- No bearing trees available.
- 41.19 Ascend 11 ft., over S. slope. Spur, slopes SW. Descend 168 ft., over NW. slope.
- 47.12 Bottom of gulch, 20 lks. wide, course SW. Ascend 136 ft., over SE. slope.
- 55.78 Spur, slopes SW. Descend 122 ft., over NW. slope.
- 66.41 Bottom of gulch, 30 lks. wide, course SW. Ascend 365 ft., over SE. slope, to
- 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 28 ins. in the ground for cor. of secs. 17, 18, 19 and 20, marked on brass cap,



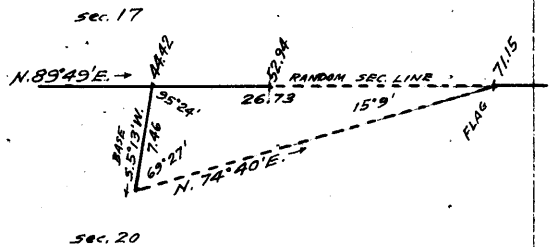
No bearing trees available. Raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Land, mountainous. Soil, stony, 3rd and 4th rate. No timber. Undergrowth, scrub oak and mountain mahogany. Good grass.

- 40.00 N. 89° 49' E., on random line, bet. secs. 17 and 20. Set temp. $\frac{1}{4}$ sec. cor.
- 44.42 Triangulation point. Continue chaining.
- 52.94 Beyond this point, precipitous slopes prevent accurate chaining; therefore, triangulate as follows:

Set flag ahead on random sec. line.

From 44.42 ch. station on random sec. line, measure a Base S. 5° 13' W., 7.46 chs. From SW. end of Base, the flag brs. N. 74° 40' E.

From 52.94 ch. station, the vertical angle to flag is -13° and from same station to point on random line in bottom of gulch at approximately 66.00 ch. station is -20°.



Dist. on random sec. line = 44.42 chs. N. 89° 49' E.
 Dist. triangulated = 26.73 chs. N. 89° 49' E.
 Total distance, = 71.15 chs. N. 89° 49' E.

- 71.15 Triangulation point. Continue line and measurement by chaining.
- 79.68 Intersect N. and S. line, 8 lks. S. of the cor. of secs. 16, 17, 20 and 21. Thence, S. 89° 46' W., on true line, bet. secs. 17 and 20. Over mountainous land, thru scattering timber and dense undergrowth.

BOOK 3649

84 Survey of part(completion)of Subdivision lines of T.18 S., R.19 E.
chains.

- 4.11 Descend 78 ft., over W. slope.
Wash, 15 lks. wide, course N. in gulch.
- 8.53 Ascend 81 ft., over E. slope.
Triangulation point on spur sloping N. Discontinue chaining.
Measurement by triangulation to 26.74 ch. station as hereinbefore described.
- 13.50 Descend about 160 ft., over NW. slope.
(Approx.) Wash 10 lks. wide, in gulch, course NW.
- 26.74 Ascend about 340 ft., over precipitous E. slope.
Point of spur, sloping N. 20° E. Continue line and measurement by chaining.
- 33.08 Descend 126 ft., over NW. slope.
Wash, 30 lks. wide, course NE.
- 35.26 Ascend 60 ft., over E. slope, to
Triangulation point on spur, sloping N. 5° E. Continue chaining.
- 39.84 Descend 122 ft., over NW. slope, to
Set an iron post, 3 ft. long, 1 in. in diam., 27 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$ S 17
S 20
1922

- No bearing trees available. Raise a mound of stone, 2 ft. base, 18 ft. high, N. of cor.
- 40.65 Ascend 25 ft., over NE. slope.
Point of short spur, sloping N.
- 47.18 Descend 134 ft., over NW. slope.
Bottom of gulch, 10 lks. wide, course N. 25° E. near head.
- 52.34 Ascend 183 ft. over NE. slope.
Saddle in ridge bearing N. 50° W. and S. 40° E.
- 75.15 Descend 392 ft., over SW. slope. Leave timber, brs. NW. and SE.
Bottom of gulch, 10 lks. wide, course S. 10° E.
- 79.68 Ascend 139 ft., over SE. slope, to
The cor. of secs. 17, 18, 19 and 20.
Land, mountainous.
Soil, stony, 3rd and 4th rate.
Timber, oak, juniper and pine.
Undergrowth, scrub oak and manzanita.
Good grass.

- 7.67 S. 89° 54' W., on true line, bet. secs. 18 and 19.
Over mountainous land, thru. dense undergrowth.
Ascend 212 ft., over SE. slope.
Spur, slopes SW.
- 11.12 Descend 124 ft., over NW. slope.
Head of gulch, course SW.
- 22.37 Ascend 38 ft., over SE. slope.
Spur, slopes S. 40° W.
- 39.60 Descend 547 ft., over NW. slope, to
Bottom of gulch, 10 lks. wide, course S. 40° W.
Enter scattering timber.
- 40.00 Ascend slightly over SE. slope, to
Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground to bed rock, deposit a stone, marked with a cross (x) at base of post, and raise a mound of stone around post, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$ S 18
S 19
1922

from which,

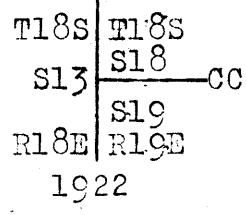
A pine, 10 ins. in diam., brs. S. 22 $\frac{1}{2}$ ° W., 36 lks. dist., marked S 19 BT.

No other bearing trees available.
Descend 49 ft., over S. slope, to

Survey of part(completion) of Subdivision lines of T.18 S., R.19 E.85

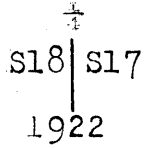
Chains.

- 43.83 Point of spur, sloping SW.
Descend 63 ft., over W.slope.
- 46.77 Wash, 20 lks.wide, course S.30°W.
Ascend 162 ft., over SE.slope.
- 56.26 Point of spur, sloping S.40°W.
Descend 312 ft., over SW.slope.
- 68.77 Bottom of gulch, 30 lks.wide, course S.20°E.
Ascend 169 ft., over SE.slope.
- 75.25 Point of spur, sloping S.
Descend 15 ft., over SW.slope, to
- 76.58 Intersect W. bdy. of Tp., at a point, 3.66 chs. N.0°17'W.,
from the reestablished cor. of secs. 13 and 24, T.18 S.,
R.18 E., hereinbefore described. At point of intersec-
tion,
Set an iron post, 3 ft. long, 2 ins. in diam., 28 ins. in
the ground for closing cor. of secs. 18 and 19, marked
on brass cap,



No bearing trees available.
 Raise a mound of stone 2 ft. base, 1½ ft. high, E. of cor.
 Land, mountainous.
 Soil, stony, 3rd and 4th rate.
 Timber, pine, juniper and oak.
 Undergrowth, scrub oak and mountain mahogany.
 Good grass.

-
- From cor. of secs. 17, 18, 19 and 20,
N.0°3'W., bet. secs. 17 and 18.
Over mountainous land, thru. dense undergrowth.
 - 2.64 Ascend 35 ft., over SE.slope.
Spur, slopes SW. from top of ridge, bearing NW. and SE. Enter
scattering timber.
 - 8.82 Descend 256 ft., over NE.slope, to
Bottom of gulch, 10 lks.wide, course NE. near head.
 - 11.60 Descend 31 ft., over NE.slope, to
Ascend 61 ft., over SE.slope.
 - 15.25 Spur, slopes NE.
Descend 404 ft., over NW.slope, to
 - 27.80 Wash, 10 lks.wide, course NE.
Descend 140 ft., over E.slope, to
 - 36.34 Point of spur, sloping NE.
Descend 70 ft., over N.slope, to
 - 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in
the ground to bed rock, supported in a mound of stone,
for ¼ sec. cor., marked on brass cap,



from which,
 A juniper, 15 ins. in diam., brs. N.89°E., 155 lks.
 dist., marked ¼ S 17 BT.
 An oak, 18 ins. in diam., brs. N.16°W., 69 lks.
 dist., marked ¼ S 18 BT.

- 41.93 Descend 34 ft., over N.slope.
Wash, 10 lks.wide, course NW.
- 44.89 Ascend 35 ft., over SW.slope, to
Descend 33 ft., over W.slope, to
- 50.56 Point of spur, slopes NW.
Descend 152 ft., over N.slope.

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86. Survey of part (completion) of Subdivision lines of T.18 S., R.10 E.

Chains.
 57.80 Wash, 20 lks. wide, course NW.
 Ascend 54 ft., over SW. slope.
 66.39 Point of spur, slopes NW.
 Descend 145 ft., over N. slope, to
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 27 ins. in the
 ground for cor. of secs. 7, 8, 17 and 18, marked on brass
 cap,

T18S	R19E
S 7	S 8
S18	S17
1922	

from which,

A juniper, 18 ins. in diam., brs. N. $18\frac{1}{2}^{\circ}$ E., 100
 lks. dist., marked T18S R19E S8 BT.
 An oak, 8 ins. in diam., brs. S. $74\frac{1}{4}^{\circ}$ E., 49
 lks. dist., marked T18S R19E S17 BT.
 A pine, 5 ins. in diam., brs. S. $43\frac{3}{4}^{\circ}$ W., 72
 lks. dist., marked T18S R19E S18 BT.
 An oak, 12 ins. in diam., brs. N. $35\frac{1}{2}^{\circ}$ W., 70
 lks. dist., marked T18S R19E S7 BT.

Land, mountainous.
 Soil, stony, 3rd and 4th rate.
 Timber, oak, juniper and pine.
 Undergrowth, scrub oak.
 Good grass.

 N. $89^{\circ}46'$ E., on a random line, bet. secs. 8 and 17.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.62 Intersect N. and S. line, 12 lks. N. of the cor. of secs. 8, 9,
 16 and 17.
 Thence,
 S $89^{\circ}51'$ W., on true line, bet. secs. 8 and 17.
 Over mountainous land, thru scattering timber and dense
 undergrowth.
 Descend 41 ft., over W. slope.
 2.49 Wash, 10 lks. wide, course N. 10° E.
 Ascend 125 ft., over E. slope.
 9.94 Spur, slopes NE.
 Descend 166 ft., over NW. slope.
 18.27 Bottom of gulch, 10 lks. wide, course N. 30° W.
 Ascend 81 ft., over NE. slope.
 21.32 Spur, slopes NW.
 Descend 211 ft., over SW. slope.
 26.94 Bottom of gulch, 10 lks. wide, course N. 40° W.
 Ascend 217 ft., over NE. slope.
 37.52 Ridge, brs. NW and SE.
 Descend 20 ft., over SW. slope, to
 39.81 Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in
 the ground to bed rock, supported in a mound of stone,
 for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$	S 8
	S 17
1922	

from which,

A juniper, 10 ins. in diam., brs. N. $76\frac{1}{2}^{\circ}$ E., 200
 lks. dist., marked $\frac{1}{4}$ S 8 BT.
 An oak, 12 ins. in diam., brs. S. 44° E., 41 lks.
 dist., marked $\frac{1}{4}$ S 17 BT.

Descend 113 ft., over SW. slope, to
 46.75 Wash, 10 lks. wide, course SW.
 Descend 75 ft., over SW. slope, to
 57.16 Wash, 100 lks. wide, course N. 50° W.
 Descend 80 ft., over N. slope, to
 63.00 Ascend 30 ft., over NE. slope.
 68.71 Point of spur, slopes NW.
 Descend 70 ft., over NW. slope.

Survey of part (completion) of Subdivision Lines of T.18 S.R.19 E. 87

Chains.

- 78.08 Wash, 30 lks. wide, course N.40°W.
Ascend 21 ft., over NE. slope, to
 - 79.62 The cor. of secs. 7, 8, 17 and 18.
Land, mountainous.
Soil, stony, 3rd rate.
Timber, juniper and oak.
Undergrowth, scrub oak.
Good grass.
-
- S. 89° 54' W., on true line, bet. secs. 7 and 18.
Over mountainous land, thru scattering timber and dense undergrowth.
 - Descend 12 ft., over NW. slope.
 - .68 Wash, 4 lks. wide, course N.
Ascend 64 ft., over E. slope.
 - 6.91 Point of spur, slopes N.
Descend 90 ft., over NW. slope.
 - 14.96 Wash, 10 lks. wide, course NW. Asc. 21 ft., over NE. slope.
 - 15.91 Spur, slopes NW. Desc. 36 ft., over SW. slope.
 - 20.03 Wash, 10 lks. wide, course N.40°W. Asc. 32 ft. over NE. slope.
 - 27.41 Spur, slopes N.50°W. Desc. 44 ft., over SW. slope.
 - 33.35 Wash, 8 lks. wide, course N.50°W.
Ascend 27 ft., over NE. slope.
 - 36.70 Spur, slopes NW.
Descend 10 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 in a mound of stone, for sec. cor., marked on brass cap,

$\frac{S \ 7}{S \ 18}$
 1922

from which,
 An oak, 12 ins. in diam., brs. N. 21½° W., 22 lks. dist., marked S 7 BT.
 A juniper, 4 ins. in diam., brs. S. 28½° E., 54 lks. dist., marked BT.

- Descend 25 ft., over SW. slope.
- 44.16 Wash, 10 lks. wide, course N.50°W.
Ascend 38 ft., over NE. slope.
- 46.90 Spur, slopes NW.
Descend 78 ft., over SW. slope.
- 50.56 Wash, 20 lks. wide, course N.50°W.
Ascend 85 ft., over NE. slope.
- 54.76 Spur, slopes NW.
Descend 88 ft., over SW. slope.
- 58.90 Wash, 10 lks. wide, course NW.
Ascend 31 ft., over NE. slope.
- 66.08 Spur, slopes N.40°W.
Descend 40 ft., over SW. slope, to
- 71.04 Head of wash, course NW.
Ascend 30 ft., over NE. slope, to
- 76.80 Intersect the W. bdy. of Tp., at a point 1.20 chs. N. 0° 17' W. from the reestablished cor. of secs. 12 and 13, T.18 S., R.18 E., hereinbefore described.
 At point of intersection,
 Set an iron post, 3 ft. long, 2 ins. in diam., 22 ins. in the ground to bed rock, supported in a mound of stone for closing cor. of secs. 7 and 18, marked on brass cap,

T18S	T18S
S12	$\frac{S \ 7}{S \ 18}$ CC
R18E	R19E

1922

from which,

BOOK 3649

88 Survey of part (completion) of Subdivision lines of T.18 S. R.19 E.

Chains.

An oak, 12 ins. in diam., brs. N. 59° E., 95 lks.
dist., marked T18S R19E S7 CC BT.

An oak, 10 ins. in diam., brs. S. 46½° E., 93 lks.
dist., marked T18S R19E S18 CC BT.

Land, mountainous.
Soil, stony, 3rd and 4th rate.
Timber, oak and juniper.
Undergrowth, scrub oak and manzanita.
Good grass.

From cor. of secs. 7, 8, 17 and 18,
N. 0° 3' W., bet. secs. 7 and 8.
Over mountainous land, thru scattering timber and dense
undergrowth.

- 8.16 Descend 44 ft., over N. slope.
Wash, 40 lks. wide, course NW.
- 14.49 Ascend 57 ft., over SW. slope, to
Point of spur, slopes SW.
- 19.41 Ascend 57 ft. over W. slope, to
Wash, 10 lks. wide, course SW.
- 28.56 Ascend 180 ft., over SW. slope.
Saddle in ridge, bearing NW. and SE.
- 32.86 Descend 122 ft., over NE. slope.
Wash, 10 lks. wide, in gulch, course NW. near head.
- 40.00 Ascend 206 ft., over SW. slope, to
Set an iron post, 3 ft. long, 1 in. in diam., 8 ins. in the
ground to bed rock, supported in a mound of stone, for
¼ sec. cor., marked on brass cap,

$\frac{1}{4}$
 S 7 | S 8
 1922

from which,
An oak, 12 ins. in diam., brs. N. 33½° W., 240 lks.
dist., marked 1S 7 BT.
An oak, 24 ins. in diam., brs. S. 42° E., 83 lks.
dist., marked 1S 8 BT.

- 41.84 Ascend 52 ft., over SW. slope.
Ridge, brs. NW. and SE.
- 60.67 Descend 439 ft., over NE. slope.
Head of gulch, course NE.
- 72.19 Ascend 40 ft. over SE. slope.
Spur, slopes NE.
- 79.61 Descend 171 ft., over NW. slope.
Wash, 10 lks. wide, course NE.
- 80.00 Ascend slightly over E. slope, to
Set an iron post, 3 ft. long, 2 ins. in diam., 14 ins. in
the ground to bed rock, supported in a mound of stone,
for cor. of secs. 5, 6, 7 and 8, marked on brass cap,

T18S	R19E
S 6	S 5
S 7	S 8

 1922

from which,
An oak, 6 ins. in diam., brs. N. 41° E., 34 lks.
dist., marked T18S R19E S 5 BT.
An oak, 10 ins. in diam., brs. S. 12½° E., 98 lks.
dist., marked T18S R19E S8 BT.
An oak, 15 ins. in diam., brs. S. 23° W., 106 lks.
dist., marked T18S R19E S7 BT.
An oak, 15 ins. in diam., brs. N. ½° W., 14 lks.
dist., marked T18S R19E S6 BT.

Land, mountainous.
Soil, stony, 3rd and 4th rate.
Timber, juniper and oak.
Undergrowth, scrub oak and cactae. Good grass.

Chains. N. 89° 51' E., on a random line, bet. secs. 5 and 8.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.30 Intersect N. and S. line, 21 lks. N. of the cor. of secs. 4,
 5, 8 and 9.
 Thence,
 S. 89° 57' W., on true line, bet. secs. 5 and 8.
 Over rolling land, thru scattering timber and dense under-
 growth.
 Descend 34 ft., over NW. slope.
 11.29 Wash, 20 lks. wide, course NW. Enter mountainous land.
 Ascend 175 ft., over NE. slope.
 24.36 Spur, slopes NW.
 Descend 115 ft., over SW. slope.
 28.73 Head of wash, course SW.
 Ascend 14 ft., over SE. slope.
 31.72 Point of spur, slopes SW.
 Descend 154 ft., over SW. slope.
 37.21 Wash, 20 lks. wide, course N. 60° W.
 Ascend 45 ft., over E. slope, to
 39.30 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 5
 S 8
 1922

from which,

A mesquite, 5 ins. in diam., brs. N. 6° W., 124
 lks. dist., marked $\frac{1}{4}$ S 5 BT.

An oak, 8 ins. in diam., brs. S. 77 $\frac{1}{2}$ ° W., 28
 lks. dist., marked $\frac{1}{4}$ S 8 BT.

Ascend 105 ft., over E. slope.
 47.51 Point of spur, slopes NE.
 Descend 76 ft., over NW. and N. slopes, to
 67.21 Wash, 10 lks. wide, course NE.
 Ascend 39 ft., over SE. slope.
 68.59 Spur, slopes NE.
 Descend 84 ft., over NW. slope.
 77.53 Wash, 30 lks. wide, course NE.
 Ascend 21 ft., over E. slope, to
 79.30 The cor. of secs. 5, 6, 7 and 8.
 Land, rolling and mountainous.
 Soil, stony, 3rd rate.
 Timber, oak and mesquite.
 Undergrowth, scrub mesquite and scrub oak.
 Good grass.

S. 89° 54' W., on true line, bet. secs. 6 and 7.
 Over mountainous land, thru scattering timber and dense
 undergrowth.

Ascend 34 ft., over E. slope.
 1.83 Spur, slopes N. 15° E.
 Descend 87 ft., over NW. slope.
 10.35 Wash, 20 lks. wide, course N. 20° E.
 Ascend 43 ft., over SE. slope.
 14.99 Spur, slopes N. 20° E.
 Descend 71 ft., over NW. slope.
 25.80 Wash, 20 lks. wide, course N. 25° E.
 Ascend 165 ft., over NE. slope, to
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 27 ins. in
 the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$ S 6
 S 7
 1922

from which,

An oak, 15 ins. in diam., brs. N. 47° W., 81
 lks. dist., marked $\frac{1}{4}$ S 6 BT.

An oak, 10 ins. in diam., brs. S. 53° E., 114
 lks. dist., marked $\frac{1}{4}$ S 7 BT.

BOOK 3649

90 Survey of part (completion) of Subdivision lines of T.18S., R.10E.

Chains. Ascend 308 ft., over NE.slope.
 55.99 Ridge, brs.NW and SE.
 Descend 367 ft., over SW.slope, to
 71.09 Wash, 10 lks.wide, course SW.
 Ascend 46 ft., over SE.slope.
 74.00 Descend 104 ft., over S.slope, to
 76.88 Intersect W. bdy.of Tp., at a point 2.18 chs.N.0°17'W.
 from the reestablished cor.of secs.1 and 12, T.18 S., R.
 18 E., hereinbefore described. At point of intersec-
 tion,
 Set an iron post, 3 ft.long, 2 ins. in diam., 20 ins. in
 the ground to bedrock, deposit a stone marked with
 a cross (x) at base of post, and raise a mound of
 stone around post for closing cor.of secs.6 and 7,
 marked on brass cap,

T18S	T18S	
S 1	S 6	CC
R18E	R19E	

1922

No bearing trees available.
 Land, mountainous.
 Soil, stony, 3rd and 4th rate.
 Timber, oak and mesquite.
 Undergrowth, scrub oak and cactae.
 Good grass.

From cor.of secs.5, 6, 7 and 8,
 N.0°3'W.on a random line, bet. secs.5 and 6.
 40.00 Set temp. $\frac{1}{4}$ sec.cor.
 77.06 Intersect N. bdy.of Tp., 6 lks.W.of the reestablished
 cor.of secs.5, 6, 31 and 32, hereinbefore described.
 Thence,
 S.0°1'E., on true line, bet. secs.5 and 6.
 Over rolling land, thru.scattering timber and dense under-
 growth.
 Descend 30 ft., over SW.slope.
 4.79 Wash, 30 lks.wide, course NW.
 Ascend 28 ft., over N.slope.
 9.40 Spur, slopes NW.
 Descend 50 ft., over SW.slope.
 15.69 Wash, 40 lks.wide, course N.40°W.
 Ascend 92 ft., over NE.slope, to
 23.68 Spur, slopes N.40°W.
 Ascend 15 ft., over W.slope, to
 29.50 Wash, 10 lks.wide, course NW.
 Ascend 28 ft., over N.slope, to
 35.76 Ascend slightly, over NW.slope, to
 37.06 Set an iron post, 3 ft.long, 1 in. in diam., 27 ins. in
 the ground for $\frac{1}{4}$ sec.cor., marked on brass cap,

S 6	S 5
-----	-----

1922

from which,
 An oak, 12 ins.in diam., brs.N.80 $\frac{1}{2}$ °E., 35 lks.
 dist., marked $\frac{1}{4}$ S 5 BT.
 An oak, 18 ins.in diam., brs.S.87 $\frac{1}{2}$ °W., 59 lks.
 dist., marked $\frac{1}{4}$ S 6 BT.

Ascend gradually over NW.slope.
 42.30 Descend 9 ft., over SW.slope, to
 45.31 Wash, 10 lks.wide, course N.50°W. Enter mountainous land.
 Ascend 100 ft., over NE.slope.
 53.37 Spur, slopes N.50°W.
 Descend 16 ft., over SW.slope.
 57.77 Head of wash, course NW.
 Ascend 81 ft., over NW.slope.

Chains.

74.47 Spur, slopes NE.
 Descend 12 ft., over E. slope, to
 77.06 The cor. of secs. 5, 6, 7 and 8.
 Land, mountainous.
 Soil, stony, 3rd rate.
 Timber, oak.
 Undergrowth, scrub oak and cactae.
 Good grass.

The continued satisfactory adjustment of the solar apparatus of the instrument used in the execution of the surveys described in the foregoing notes is indicated from field tests described in Book "F."

GENERAL DESCRIPTION.

This township embraces about one half of the Whetstone Mountain range, the land with the exception of the small mesa areas in secs. 1, 2, 3, 12, 13, and 36 being of a very rough, mountainous character, and the soil ranges from almost barren limestone rock to gravelly and stony clay loam. The soil of the mesa land in secs. 1, 2, 3, 12, 13 and 36 is generally of a gravelly clay loam variety, varying in depth from a few inches to about one foot, and is underlaid by a stiff clay subsoil, and will produce fair crops without the aid of irrigation. The soil of the mountainous portion of the township is too stony for agricultural purposes, and can nearly all be classed as 3rd rate.

The main divide of the Whetstone mountains, which extends in a northerly direction thru. the center of the township maintains a comparatively uniform elevation of 7000 ft., and forms the watershed of the drainage of the township.

The township is drained in a northeasterly and southeasterly direction into the San Pedro river, and in a westerly and northwesterly direction into the Pantano wash, from the summit of the watershed thru. numerous large canyons and ravines.

The general slope of the land from the summit of the mountains is to the northeast and east, over the east half of the Tp., and to the west and southwest over the west half.

The mesa portions of the township are timbered with a scattering growth of mesquite and catclaw timber while on the higher levels in the mountainous portion are groves of oak, scattering juniper and pine.

The township is poorly watered by a few intermittent springs and wells dug in the bottoms of the ravines by stockmen, for stock watering purposes.

Some prospecting for minerals has been done in the secs. along the east slope of the mountains, and copper ore discovered in secs. 23, 24 and 25.

The entire township is covered with a good growth of nutritious grasses and undergrowth, which affords excellent pasture for a large number of cattle.

There is one settler in sec. 2, who at the present time is engaged in the stockraising business.

The township seems best adapted for grazing purposes.

4-680

FIELD ASSISTANTS. to
Sidney E. Blout, U.S. Cadastral Engineer.

NAMES.	CAPACITY.
Merle Brock	1st. Chainman
B.G. Towler	2nd. Chainman
B.H. Pruitt	2nd. Chainman
Raymond Towler	Flagman
Clifton Gump	Cornerman
B.H. Pruitt	Axman
Paul C. Nash	Axman.
Anna H. Ice	Axman

CERTIFICATE OF UNITED STATES CADASTRAL ENGINEER.

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I, Sidney E. Blout, U.S. Cadastral Engineer, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General, for Group 119, Arizona, bearing date of the 16th day of December, 1921, 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, retraced all those parts or portions of the East boundary and Subdivision lines of T. 18 S., R. 19 E., resurveyed all those parts or portions of the East boundary of T. 18 S., R. 18 E., and the North and South boundaries of T. 18 S., R. 19 E.; and surveyed all those parts or portions of the Subdivision lines of Township 18 South, Range 19 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 retracements, resurveys and surveys 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 119, Arizona, and in the specific manner described in the field notes, and that the foregoing are the original field notes such retracement, resurvey and survey.

Place: Phoenix, Arizona
Date: May 13, 1925

Sidney E. Blout
U. S. Cadastral Engineer.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona, May 14, 1925.

The foregoing field notes of the retracement of the East boundary and part of the Subdivision lines of T. 18 S., R. 19 E., of the resurvey of the East bdy. of T. 18 S. 18 E., and the North and South boundaries of T. 18 S., R. 19 E.; and of the survey part (completion) of the Subdivision lines of Township 18 South, Range 19 of the Gila and Salt River Base and Meridian, in the State of Arizona,

executed by Sidney E. Blout, U.S. Cadastral Engineer,

under his special instructions dated December 16, 1921, for Group 119, Arizona, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the retracements, resurveys and surveys they describe, are hereby approved.

Charles M. Donohoe
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.