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Book "L"

4-679

BOOK 3592

FIELD NOTES

OF THE RETRACEMENT OF

The Third Standard Parallel South thru Part of R. 31E.

AND OF THE RESURVEY OF

The East Boundary of Township 16 South, Range 30 East

AND OF THE SURVEY OF

The South Boundary

Subdivision The West Boundary

and Subdivision Lines of

TOWNSHIP 16 SOUTH, RANGE 30 EAST.

Of the *Gila and Salt River Base and Meridian,*

In the State of *Arizona.*

EXECUTED BY

Benjamin J. Kinsey,

U. S. Transitman,

In the capacity of U. S. Surveyor, under Special Instructions dated November 16, 1920 issued by the United States Surveyor General to govern surveys included in Group No. 111, Arizona, which were approved by the Commissioner of the General Land Office, December 17, 1920, and Assignment Instructions dated November 17, 1920.

Retracement
Resurvey & Survey commenced *July 25*, 1921.

Retracement
Resurvey & Survey completed *September 17*, 1921.

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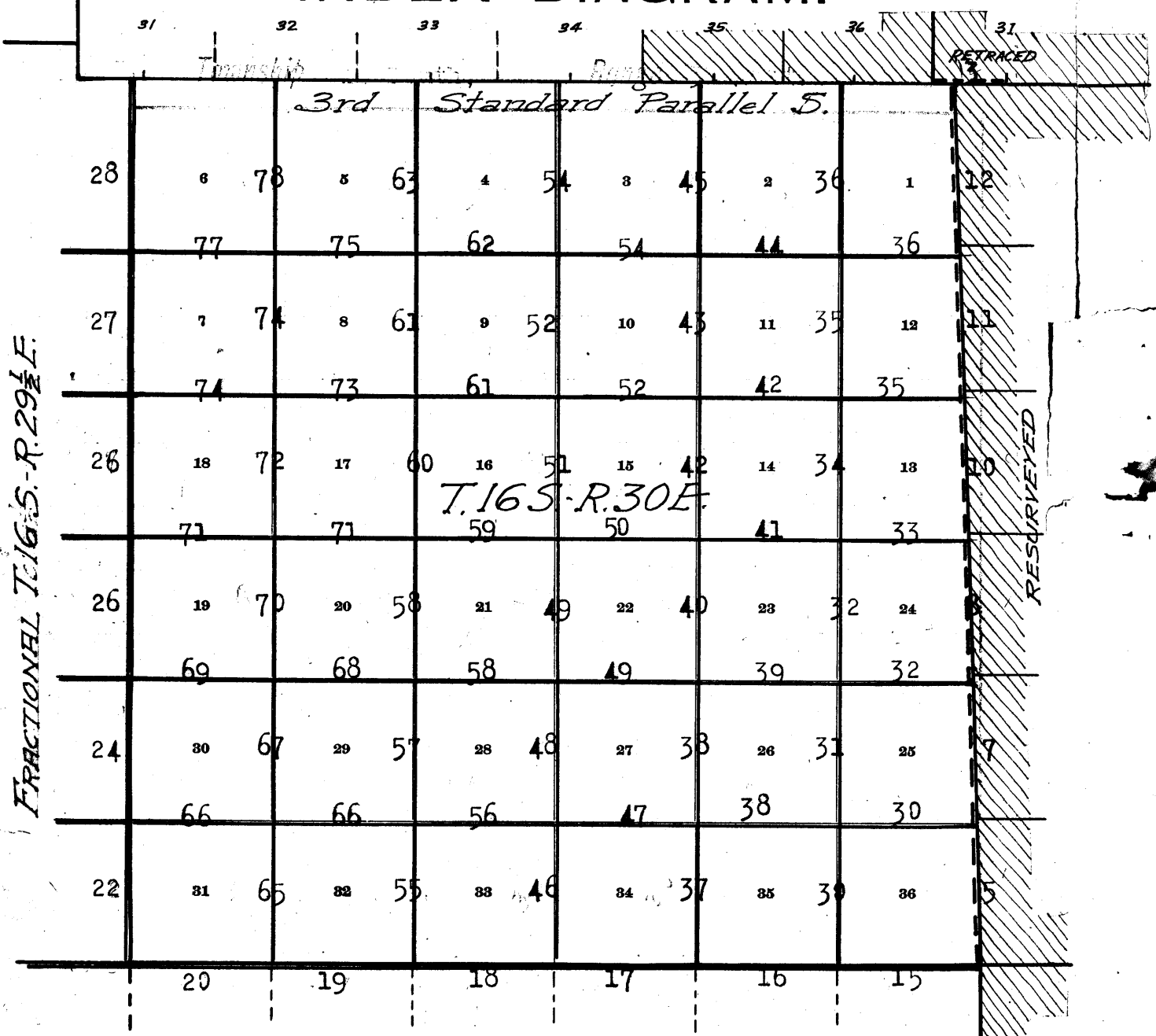
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Book "L"

BOOK 3592 Group 111 - - Arizona.

INDEX DIAGRAM.



FRACTIONAL T. 16 S. R. 29 E.

- Lines surveyed under this group.
- Lines retraced or resurveyed under this group.
- Accepted surveys.
- Unsurveyed.
-  Areas surveyed as per accepted platson file.

Fractional
retraced

Book "L"
Group 111 - - - Arizona.
Township 16 South, Range 30 East.

DATE DIAGRAM.

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

RESURVEYED

Retracements, Resurveys and Surveys executed on dates shown on above diagram by Benjamin J. Kinsey, U.S. Transitman.

2
Chains.

Retracements, resurveys and surveys hereinafter described executed by Benjamin J. Kinsey, U.S. Transitman, on dates shown on diagram on page 1 hereof, using Young and Sons light mountain transit No. 8487. The instrument is equipped with full vertical circle and the Smith solar attachment. Unless otherwise specified, all azimuth determinations are accomplished with the solar attachment.

I examine the adjustment of the transit, and correct all 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 determined by Polaris observation, I proceed as follows:

July 21, 1921: At camp, near the cor. of secs. 25, 30, 31 and 36, on the E. bdy. of T. 16 S., R. 30 E., Gila and Salt River Base and Meridian, Arizona, latitude, $31^{\circ}59\frac{1}{2}'$ N.; longitude, $109^{\circ}13\frac{1}{2}'$ W., at 11h. 37.9m., p.m., l.m.t., I 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 in a stake, firmly driven in the ground, 5 chs. N.

Azimuth of Polaris at eastern elongation = $1^{\circ}19'16''$.

July 22, 1921: At 8h. 0m. a.m., l.m.t., I lay off the azimuth of Polaris, $1^{\circ}19\frac{1}{2}'$ to the West, and mark the true meridian thus determined by a tack in a stake, firmly driven in the ground, 5 chs. N.

July 24, 1921: At 9h. 0m., a.m., l.m.t., I set off $31^{\circ}59\frac{1}{2}'$ N. on the lat. arc; $19^{\circ}54\frac{1}{2}'$ N. on the decl. arc, and determine a meridian with the solar, which agrees with the true meridian.

At apparent noon, with the lat. arc unchanged, I observe the sun on the meridian; the resulting reading of the decl. arc is $19^{\circ}52'$ N., which agrees with the computed decl. of the sun.

At 3h. 0m. p.m., l.m.t., with the lat. arc unchanged, I set off $19^{\circ}51\frac{1}{2}'$ N. on the decl. arc, and determine a meridian with the solar, which agrees with the true meridian.

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

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

All stadia measurements are made with fixed stadia wires, with a ratio of 1:132. The focal constant of the instrument is 1.55 lks. The rod used is a standard Philadelphia level rod graduated to feet, and equipped with two targets and a rod level.

All readings are made with a vertical rod.

FIELD TEST OF STADIA WIRE INTERVAL.

Sept. 4, 1921.

Horizontal length of base	=	10.00 chs.
Mean of 10 rod readings	=	4.99 ft.
Vertical angle of test	=	zero
K	=	132.50
Reduced error in 10 chs.	=	1.8 lks.

All corrections to be added to the distances given by the stadia.

Retracement of 3rd. Std. Par. S. thru. part of Range 31 East.

3

Chains.

The following notes describe the retracement of that part of the Third Standard Parallel South, forming the South bdy. of the W. $\frac{1}{2}$ of sec. 31, T. 15 S., R. 31 E. This part of the parallel was surveyed by R. C. Powers, U.S.D.S. in 1883, and no retracement or resurvey of such portion is of record.

The standard cor. of Tps. 15 S., Rs. 30 and 31 E., as reestablished by John P. Walker, U.S.S. in 1905 is a porphyry stone 12x8x6 ins. above ground, firmly set, marked SC on N. face, and 6 notches on each of N., E. and W. faces, and witnessed by a mound of stone, N. of cor., in which is a porphyry stone 4x4x3 ins., marked with 6 notches on each of three sides, probably the one reported by Walker as having been found lying on the ground at cor. point. No bearing trees. This cor. is under a wire fence bearing E. and W.

Thence,

East, on random line, on S. bdy. of sec. 31 (W. $\frac{1}{2}$).

Over gently rolling land, thru. scattering undergrowth, along S. side of fence, bearing E and W.

Descend gradually over N. slope, in the San Simon Valley.

1.12 Telephone line, brs. N. 10° E. and S. 10° W.

10.24 Dim road brs. NE. and SW.

11.86 A point 6 lks. S. of the closing cor. of Tps. 16 S., Rs. 30 and 31 E., hereinafter described.

True course and distance from standard Tp. cor. to this Tp. C.C. are therefore N. 89° 43' E., 11.86 chs.

Continue line and measurement, along S. side of fence bearing E and W.

40.10 Fall 20 lks. S. of the original standard $\frac{1}{4}$ sec. cor. of sec. 31, which is a mound of earth with two pits, one east and west of mound 5 $\frac{1}{2}$ ft. dist. In the E. pit is a stake 2 ins. square, projecting 8 ins. above bottom of pit, marking on N. face illegible. No bearing trees.

The true course and dist. of W $\frac{1}{2}$ of S. bdy. of sec. 31 are therefore N. 89° 43' E., 40.10 chs., and the closing cor. is on line,

Land, gently rolling.

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

Timber. none.

Undergrowth, scattering scrub mesquite, catclaw, Spanish dagger and cacti.

Good grass.

Resurvey of the East bdy. of Township 16 South, Range 30 East.
Chains.

The East boundary of T.16 S., R.30 E. was surveyed in January 1884 by Walter B. Neil, U.S.D.S., and was resurveyed in March, 1905, by John P. Walker, U.S. Surveyor, as part of the boundary of the Chiricahua Forest Reserve. No subsequent retracement or resurvey is of record.

Retracement for Resurvey.

All of the area in T.16 S., R.31 E. adjoining this range line is surveyed, accepted and on file, and the resurvey of the line is now dependent upon the courses and distances between the existing corners thereon; therefore, in the following notes describing the retracement of the line, the courses and distances are designated as W. boundaries of secs. in T.16 S., R.31 E. In the resurvey of the line hereinafter described, $\frac{1}{4}$ sec. and sec. cors. are established alternately at intervals of 40.00 chs. in northing counting from the south, and such intervals are designated as the east boundaries of secs. in T.16 S., R.30 E.

The random lines described in the following notes are run on the courses described in the Walker resurvey, except where the objective corners are visible.

- From the reestablished cor. of Ts. 16 and 17 S., Rs. 30 and 31 E. hereinafter described,
N. $9^{\circ}14'$ E., on random line on W. bdy. of sec. 31 (S. $\frac{1}{2}$).
40.52 Fall 5 lks. E. of the reestablished $\frac{1}{4}$ sec. cor. of secs. 31 and 36, hereinafter described.
The true course and distance of S. $\frac{1}{2}$ of W. bdy. of sec. 31, are therefore N. $0^{\circ}10'$ E., 40.52 chs.
Thence,
N. $0^{\circ}10'$ E., on random line on W. bdy. of sec. 31 (N. $\frac{1}{2}$) toward flag on objective cor., which is visible.
40.52 Intersect the reestablished cor. of secs. 25, 30, 31 and 36, hereinafter described.
The true course and distance of N. $\frac{1}{2}$ of W. bdy. of sec. 31 are therefore N. $0^{\circ}10'$ E., 40.52 chs.
Thence,
N. $0^{\circ}19'$ W., on random line on W. bdy. of sec. 30 (S. $\frac{1}{2}$) toward flag on objective cor., which is visible.
40.34 Intersect the reestablished $\frac{1}{4}$ sec. cor. of secs. 25 and 30, hereinafter described.
The true course and distance of S. $\frac{1}{2}$ of W. bdy. of sec. 30, are therefore N. $0^{\circ}19'$ W., 40.34 chs.
Thence,
N. $0^{\circ}53'$ E., on random line on W. bdy. of sec. 30 (N. $\frac{1}{2}$).
40.84 Intersect the reestablished cor. of secs. 19, 24, 25 and 30, hereinafter described.
The true course and distance of N. $\frac{1}{2}$ of W. bdy. of sec. 30 are therefore N. $0^{\circ}53'$ E., 40.84 chs.
Thence N. $0^{\circ}6'$ E., on random line on W. bdy. of sec. 19 (S. $\frac{1}{2}$).
40.06 Fall 4 lks. E. of the reestablished $\frac{1}{4}$ sec. cor. of secs. 19 and 24, hereinafter described.
The true course and distance of S. $\frac{1}{2}$ of W. bdy. of sec. 19, are therefore N. $0^{\circ}3'$ E., 40.06 chs.
Thence,
N. $0^{\circ}6'$ E., on random line on W. bdy. of sec. 19 (N. $\frac{1}{2}$) toward flag on objective cor., which is visible.
40.27 Intersect the reestablished cor. of secs. 13, 18, 19 and 24, hereinafter described.
The true course and distance of N. $\frac{1}{2}$ of W. bdy. of sec. 19, are therefore N. $0^{\circ}6'$ E., 40.27 chs.
Thence,
N. $3^{\circ}30'$ W., on random line on W. bdy. of sec. 18 (S. $\frac{1}{2}$) toward flag on objective cor., which is visible.
40.70 Intersect the reestablished $\frac{1}{4}$ sec. cor. of secs. 13 and 18,

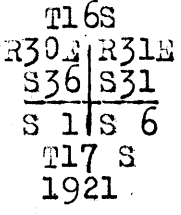
Chains.

- hereinafter described.
The true course and distance of S $\frac{1}{2}$ of W. bdy. of sec. 18 are therefore N. 3° 30' W., 40.70 chs.
- Thence,
N. 3° 30' W., on random line on W. bdy. of sec. 18 (N. $\frac{1}{2}$) toward flag on objective cor., which is visible.
- 40.55 Intersect the reestablished cor. of secs. 7, 12, 13 and 18, hereinafter described.
The true course and distance of N. $\frac{1}{2}$ of W. bdy. of sec. 18 are therefore N. 3° 30' W., 40.55 chs.
- Thence,
N. 3° 30' W., on random line, on W. bdy. of sec. 7 (S. $\frac{1}{2}$) toward flag on objective cor., which is visible.
- 40.62 Intersect the reestablished ~~1/2~~ sec. cor. of secs. 7 and 12, hereinafter described. The true course and dist. of S. $\frac{1}{2}$ of W. bdy. of sec. 7 are therefore N. 3° 30' W., 40.62 chs.
- 40.62 Thence, N. 3° 30' W., on random line on W. bdy. of sec. 7 (N. $\frac{1}{2}$) Intersect the reestab. cor. of secs. 1, 6, 7 and 12, hereinafter described. The true course and dist. of N. $\frac{1}{2}$ (of W. bdy. of sec. 7) are therefore N. 3° 30' W., 40.62 chs.
- 40.31 Thence, N. 3° 30' W., on random line on W. bdy. of sec. 16 (S. $\frac{1}{2}$), toward flag on objective cor., which is visible.
- 40.31 Intersect the reestablished $\frac{1}{2}$ sec. cor. of secs. 1 and 6, hereinafter described. The true course and dist. of S. $\frac{1}{2}$ of W. bdy. of sec. 6 are therefore N. 3° 30' W., 40.31 chs. Thence N. 3° 30' W. on random line on W. bdy. of sec. 6 (N. $\frac{1}{2}$).
- 49.96 Intersect the reestablished closing cor. of Ts. 16 S., Rs. 30 and 31 E. on the 3rd. Standard Parallel South, hereinafter described.
The true course and dist. of N. $\frac{1}{2}$ of W. bdy. of sec. 6, are therefore N. 3° 30' W., 49.96 chs.

RESURVEY.

The cor. of Ts. 16 and 17 S., Rs. 30 and 31 E., as reestablished in 1905, is a granite stone, 14x15x12 ins. above ground, firmly set, marked with 6 grooves on each of N., E., S. and W. faces, and witnessed by a small pile of stone, S. of cor., in which is the defective stone which marked the original cor.

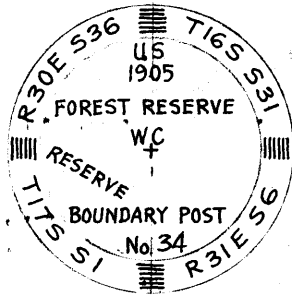
Reestablish this cor. again as follows:
Alongside the granite stone,
Set an iron post, 3 ft. long, 3 ins. in diam., 26 ins. in the ground, for reestablished cor. of Ts. 16 and 17 S., Rs. 30 and 31 E., marked on brass cap,



- Thence,
N. 0° 10' E., on a true line, on E. bdy. of sec. 36.
Over rolling land, thru. very scattering timber and scattering undergrowth.
Ascend 36 ft., over SE. slope.
- 0.11 Intersect the Chiricahua U.S. Forest Reserve Boundary post No. 34; also witness cor. to cor. of Ts. 16 and 17 S., Rs. 30 and 31 E., which is an iron post, 3 ins. in diam., projecting 24 ins. above ground, firmly set in ground and mound of stone.
No bearing trees.
The brass cap attached to post is marked

6 Resurvey of East boundary of Township 16 South, Range 30 East.

Chains.



- 4.50 Ridge, brs. NE. and SW.
- Descend 118 ft., over N. slope.
- 23.00 Wash, 10 lks. wide, 6 ft. deep, course NE. Leave rolling, and enter nearly level land, sloping NE. at the West side of the San Simon Valley.
- 27.80 Old road, brs. NE. and SW.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor. of sec. 36 only, marked on brass cap,

1836

1921

- and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
- 40.52 Intersect the previously reestablished $\frac{1}{4}$ sec. cor. of secs. 31 and 36, which is a granite stone 12x12x10 ins. above ground, firmly set, marked $\frac{1}{4}$ on W. face, and witnessed by a small mound of stone, W. of cor. No bearing trees.
- Reestablish this cor. again in the same place as follows: Set the same granite stone, 18x12x10 ins., 10 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor. of sec. 31 only, with marking on the E. face. Destroy original mound of stone, and raise a new mound of stone, 3 ft. base, 2 ft. high, E. of cor.
- Continue line and measurement of E. bdy. of sec. 36. Over nearly level land, sloping NE.
- 50.62 Old road, brs. NE. and SW.
- 68.12 Center of wash, 100 lks. wide, 4 ft. deep, course NE.
- 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 8 ins. in the ground to bed rock, supported by a mound of stone, for reestablished cor. of secs. 25 and 36 only, marked on brass cap,

T16S	T16S
S25	R31E
S36	S31
R30E	

1921

from which, the bearing tree to previously reestablished cor. of secs. 25, 30, 31 and 36,
 An elm, 12 ins. in diam., marked RES T16S R30E S25 BT brs. N. 25 $\frac{1}{2}$ ° W., 206 lks. dist.
 This bearing tree now becomes an accessory to the reestablished cor. of secs. 25 and 36. Establish another bearing tree as follows:
 A willow, 12 ins. in diam., brs. N. 57 $\frac{1}{2}$ ° W., 193 lks. dist., marked T16S R30E S25 BT.
 From this cor.,
 Richardson's ranch house brs. N. 64 $\frac{1}{2}$ ° E., about 35 chs. dist.
 "Ajax" adobe house brs. N. 48 $\frac{1}{2}$ ° E., about 50 chs. dist.
 Land, S. 23 chs. rolling, remainder nearly level.
 Soil, black loam, sandy, coarse texture, about 18 ins. deep, 1st and 2nd rate.
 Timber, very scattering mesquite, willows and elm.
 Undergrowth, scattering scrub oak, catclaw and scrub mesquite.
 Good grass.

Resurvey of East boundary of Township 16 South Range 30 East. 7

Chains.

N.0° 10'E., on a true line on E. bdy. of sec.25.
Over nearly level land, thru. very scattering timber and scattering undergrowth at the West side of the San Simon valley.

1.04 (40.52 chs. N.0°10'E. from the reestablished 1/4 sec. cor. of sec.31) Intersect the previously reestablished cor. of secs. 25,30, 31 and 36, which is a granite stone, 6x8x5 ins. above ground, firmly set, marked with 1 notch on S. edge and 5 notches on N. edge, and witnessed by a mound of stone, W. of cor., and one bearing tree, an elm, 12 ins. in diam., N. 48°W., 118 lks. dist., marked RES T16S R30E S25 BT.

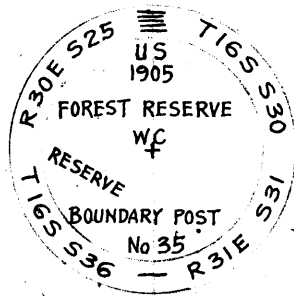
Alter this cor. as follows: Obliterate notches, and mark S30 on NE. face and S 31 on SE. face of stone for re-established cor. of secs. 30 and 31 only. Destroy old mound of stone, and raise a new mound of stone 3 ft. base, 2 ft. high, E. of cor.

The old bearing tree is now an accessory to the reestablished cor. of secs. 25 and 36 only. No bearing trees are available in secs. 30 and 31.

Thence,
N.0°19' W. on true line, continuing measurement of E. bdy. of sec.25.

1.14 Intersect the Chiricahua U.S. Forest Reserve boundary post No.35; also witness cor. to cor. of secs. 25,30,31 and 36 which is an iron post, 3 ins. in diam., projecting 20 ins. above ground, firmly set in ground and mound of stone. No bearing trees.

The brass cap attached to this post is marked



This boundary post now witnesses the reestablished cor. of secs. 30 and 31 only at 10 lks. N.0°19'W. therefrom; therefore, obliterate the marking S25 and S36 in the W. half of the brass cap,

4.85 Draw, course NE.
13.45 Barb wire fence and telephone line, both bearing NE, and W.

13.50 Road, brs. E. and W.
20.00 Center of Whitetail Wash, 3.50 chs. wide, course E. Leave nearly level valley, and enter mountainous land in the Chiricahua Mountains.

Ascend 251 ft., over SE. slope; to
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 16 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 1/4 sec. cor. of sec. 25 only, marked on brass cap,

1/4 S25 |
1921.

from which,
A cedar, 6 ins. in diam., brs. N. 48 1/2°W., 220 lks. dist., marked 1/4 S 25 BT.

Ascend 18 ft., over S. slope, to
41.38 (40.34 chs. N.0°19'W., from the reestablished cor. of secs. 30 and 31) Intersect the previously reestablished 1/4 sec. cor. of secs. 25 and 30, which is a granite

8. Resurvey of East boundary of Township 46 South, Range 30 East.

Chains.

stone 6x12x14 ins. above ground, firmly set, marked $\frac{1}{4}$ on W. face, and witnessed by a mound of stone, W. of cor. No bearing trees. Reestablish this cor. again in the same place, as follows:

Set the same granite stone 18x12x6 ins., 12 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor. of sec. 30 only, with marking on the E. face. Destroy old mound of stone, and raise a new mound of stone, 3 ft. base, 2 ft. high, E. of cor.

Thence,

N. 0° 53' E., on true line, continuing measurement of E. bdy. of sec. 25.

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

Ascend 68 ft., over SE. slope.

45.55 Spur, slopes SW.

Descend 11 ft. over W. slope, to

50.00 Ascend 245 ft., over W. slope.

69.05 From this point, Nipper Peak, a vertical pillar of rock, 80 ft. high, brs. E. about 4 chs. dist.

72.28 Thence over W. slope, near top of spur, sloping N.

Descend 220 ft. to

80.00 On top of spur, sloping N. Set an iron post, 3 ft. long, 2 ins. in diam., 8 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 cor. of secs. 24 and 25 only, marked on brass cap,

T16S	T16S
S24	R31E
S25	S30
R30E	
1921	

from which,

A cedar, 12 ins. in diam., brs. S. 30° W., 290 lks. dist., marked T16S R30E S25 BT.

No other trees within limits.

Land, S. 20 chs. nearly level; N. 60 chs., mountainous.

Soil, in S. 20 chs., sandy loam, 1st and 2nd rate. In N. 60 chs., rocky, 4th rate.

Timber, very scattering cedar and mesquite.

Undergrowth, scattering catclaw, cacti, scrub mesquite and cedar, etc. Good grass.

N. 0° 53' E., on a true line, on E. bdy. of sec. 24.

Over mountainous land, thru. very scattering timber, and scattering undergrowth. Along top of spur, sloping N.

Descend 10 ft., to

2.22 (40.84 chs. N. 0° 53' E. from the reestablished $\frac{1}{4}$ sec. cor. of sec. 30) Intersect the previously reestablished cor. of secs. 19, 24, 25 and 30, which is a porphyry 8x10x12 ins. above ground, firmly set, marked with 4 notches on N. edge and 2 notches on S. edge, and witnessed by a mound of stone, W. of cor. No bearing trees.

Alter this cor. as follows: Obliterate notches, and mark S19 on NE. face and S30 on SE. face of stone, for reestablished cor. of secs. 19 and 30 only. Destroy old mound of stone, and raise a new mound of stone 3 ft. base, 2 ft. high, E. of cor.

Thence,

N. 0° 53' E., on true line, continuing measurement of E. bdy. of sec. 24. Continue along top of spur, sloping N.

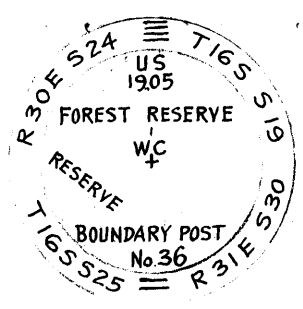
2.90 Descend slightly to

2.90 Intersect the Chiricahua U.S. Forest Reserve boundary post No. 36, also witness cor. to cor. of secs. 19, 24, 25 and 30, which is an iron post, 3 ins. in diam., projecting 34 ins. above ground, firmly set in ground and

Resurvey of East boundary of Township 16 South Range 30 East 9

Chains.

mound of stone. No bearing trees. The brass cap attached to this post is marked



This boundary post now witnesses the reestablished cor. of secs. 19 and 30 only at 68 lks. N. 0° 3' E. therefrom; therefore obliterate the markings S24 and S25 in the W. half of brass cap,

- 4.72 Descend slightly along top of spur, to Point of spur, sloping N.
- 16.22 Descend 157 ft., over NW. slope.
- 16.46 Old road, brs. E. and W.
- 16.46 Gulch, course W. heads 5 chs. E.
- 36.94 Ascend 506 ft., over S. slope.
- 36.94 Spur ridge, from Blue Mountain, brs. E. and W. sloping W.
- 40.00 Descend 88 ft. over N. slope, to Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the ground, to bed rock, supported by a mound of stone, for reestablished 1/4 sec. cor. of sec. 24 only, marked on brass cap,

1/4 S 24

1921

from which,

- A cedar, 10 ins. in diam., brs. S. 88 1/2° W., 55 lks. dist., marked 1/4 S 24 BT.
- A cedar, 8 ins. in diam., brs. N. 25° E., 155 lks. dist., marked 1/4 S 24 BT.

- 42.28 Descend 75 ft., over N. slope, to (40.06 chs. N. 0° 3' E. from the reestablished cor. of secs. 19 and 24) Intersect the previously reestablished 1/4 sec. cor. of secs. 19 and 24, which is a limestone, 8x12x14 ins. above ground, firmly set in ground and mound of stone, marked 1/4 on W. face, and witnessed by two bearing trees as follows:

- A juniper, 12 ins. in diam., brs. N. 75° W., 122 lks. dist., marked RES 1/4 S 24 BT.
- A juniper, 18 ins. in diam., brs. S. 82° E., 122 lks. dist., marked 1/4 S 19 BT.

Reestablish this cor. again in the same place as follows: Set the same granite stone, 20x12x8 ins., 6 ins. in the ground to bed rock, supported by a mound of stone, for reestablished 1/4 sec. cor. of sec. 19 only, with marking on the E. face. Obliterate the marking on the old NW. bearing tree, and establish an additional SE. bearing tree as follows:

- A juniper, 12 ins. in diam., brs. S. 55° E., 127 lks. dist., marked 1/4 S 19 BT.

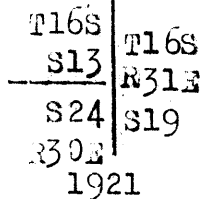
Thence, N. 0° 6' E., on true line, continuing measurement of E. bdy. of sec. 24.

- Over mountainous land, thru. scattering timber and undergrowth.
- 62.22 Descend 496 ft. over steep N. slope, to Foot of descent, brs. E. and W. Leave mountainous land and

Resurvey of East boundary of Township 16 South, Range 30 East.

Chains.

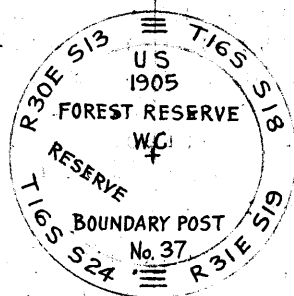
80.00 timber, and enter gently rolling land.
 Descend 110 ft., over N. slope, to
 Set an iron post, 3 ft. long, 2 ins. in diam., 12 ins. in the ground to bed rock, supported by a mound of stone, for reestablished cor. of secs. 13 and 24 only, marked on brass cap,



Dig pits, 18x18x12 ins., one each SW. and NW. of post, 3 ft. dist.
 Land, S. 62 chs. mountainous; remainder, gently rolling.
 Soil, rocky, 4th rate in S. 62 chs.; sandy and rocky loam, 2nd and 3rd rate in N. 18 chs.
 Timber, very scattering juniper, cedar and mesquite in S. 62 chs. No timber in N. 18 chs.
 Undergrowth, scattering scrub mesquite, catclaw, Spanish dagger and cacti.
 Good grass.

2.55 N. 0°6' E., on true line, on E. bdy. of sec. 13.
 Over gently rolling land, sloping NE., thru. dense undergrowth at the W. side of San Simon Valley.
 (40.27 chs. N. 0°6' E. from the reestablished $\frac{1}{4}$ sec. cor. of sec. 19) Intersect the previously reestablished cor. of secs. 13, 18, 19 and 24, which is a limestone, 10x6x5 ins. above ground, firmly set, marked with 3 notches on each of N. and S. edges; and witnessed by a mound of stone, W. of cor. No bearing trees.
 Alter this cor. as follows: Obliterate notches and mark S. 18 on NE. face and S19 on SE. face of stone for reestablished cor. of secs. 18 and 19 only. Destroy old mound of stone, and raise a new mound of stone, 3 ft. base, 2 ft. high, E. of cor.

2.67 Thence,
 N. 3°30' W., on true line, continuing measurement of E. bdy. of sec. 13.
 Intersect the Chiricahua U.S. Forest Reserve boundary post No. 37; also witness cor. to cor. of secs. 13, 18, 19 and 24, which is an iron post, 3 ins. in diam., projecting 30 ins. above ground, firmly set in ground and mound of stone. No bearing trees.
 The brass cap attached to this post is marked



27.95 This boundary post now witnesses the reestablished cor. of secs. 18 and 19 only at 12 lks. N. 3°30' W. therefrom; therefore obliterate the marking S13 and S24 in the W. half of the brass cap,
 32.70 Center of wash, 1 ch. wide, course NE.
 39.55 Wash, 20 lks. wide, 3 ft. deep, course E.
 40.08 Old road, brs. NE. and SW.
 (40.00 chs. northing from the reestablished cor. of secs. 13 and 24) Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor. of sec. 13 only, marked on brass cap,

Resurvey of East boundary of Township 16 South, Range 30 East. 11

Chains.

S13

1921

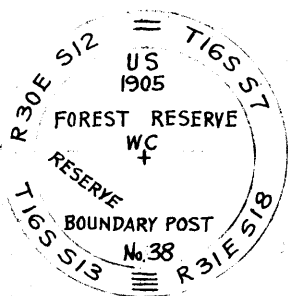
- Dig pits, 18x18x12 ins., one each N. and S. of post, 3 ft. dist.
- 43.25 (40.70 chs. N. 3°30' W. from the reestablished cor. of secs. 18 and 19) Intersect the previously reestablished $\frac{1}{4}$ sec. cor. of secs. 13 and 18, which is a granite stone, 13x10x5 ins. above ground, firmly set, marked $\frac{1}{4}$ on W. face, and witnessed by a small mound of stone, W. of cor.
No bearing trees.
Reestablish this cor. again in the same place as follows:
Set the same granite stone, 18x10x13 ins., 12 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor. of sec. 18 only with the marking on the E. face. Destroy the old mound of stone, and raise a new mound of stone, 3 ft. base, 2 ft. high, E. of cor.
- 43.70 Continue line and measurement of E. bdy. of sec. 13.
Wash, 15 lks. wide, course NE.
- 47.75 Old road, brs. NE and SW. to Noland Ranch.
- 53.95 Dry bed of Oak Creek, 4 chs. wide, course E.
- 80.16 (80.00 chs. northing from the reestablished cor. of secs. 13 and 24) Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in the ground, for reestablished cor. of secs. 12 and 13 only, marked on brass cap,

T16S	T16S
S12	R31E
S13	S18
R30E	

1921

- Dig pits, 18x18x12 ins., one each SW., and NW. of post, 3 ft. dist.
Land, gently rolling.
Soil, sandy and gravelly loam, 2nd and 3rd rate.
Timber, none.
Undergrowth, dense catclaw, scrub mesquite, Spanish dagger and cacti.
Good grass.

- N. 3°30' W., on a true line, on E. bdy. of sec. 12.
Over gently rolling land, sloping NE., thru. dense undergrowth at the west side of San Simon valley.
- 3.59 Intersect the Chiricahua U.S. Forest Reserve boundary post No. 38; also witness cor. to cor. of secs. 7, 12, 13 and 18, which is an iron post, 3 ins. in diam., projecting 20 ins. above ground, firmly set in ground and mound of stone.
No bearing trees. The brass cap attached to this post is marked



- This boundary post now witnesses the reestablished cor. of secs. 7 and 18 only at 5 lks. S. 3°30' E. therefrom; therefore obliterate the marking S12 and S13 in the W. half of the brass cap,
- 3.64 (40.55 chs. N. 3°30' W. from the reestablished $\frac{1}{4}$ sec. cor. of sec. 18) Intersect the previously reestablished cor.

12 Resurvey of East bdy. of Township 16 South, Range 30 East.

Chains.

of secs. 7, 12, 13 and 18, which is a porphyry stone, 16x12x8 ins. above ground, firmly set, marked with 2 notches on N. edge and 4 notches on S. edge, and witnessed by old pits, faintly discernable NE., SE., SW. and NW. of cor. No bearing trees.
 Alter this cor. as follows: Obliterate the notches and mark S7 on NE. face and S18 on SE. face of stone, for reestablished cor. of secs. 7 and 18 only.
 Raise a mound of stone 3 ft. base, 2 ft. high, E. of cor.
 Continue line and measurement of E. bdy. of sec. 12.
 Dry bed of Keating Creek, 5 chs. wide, course N. 15° E.
 8.65 (40.00 chs, northing from the reestablished cor. of secs.
 40.08 (12 and 13) Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor. of sec. 12 only, marked on brass cap,

$\frac{1}{4}$ S12

1921

and raise mound of stone, 3 ft. base, 2 ft. high, W. of cor.
 44.26 (40.62 chs. N. 3° 30' W., from the reestablished cor. of secs. 7 and 18). Intersect the previously reestablished $\frac{1}{4}$ sec. cor. of secs. 7 and 12, which is a porphyry stone, 10x10x8 ins. above ground, firmly set, marked $\frac{1}{4}$ on W. face, and witnessed by a dilapidated mound of stone, W. of cor. No bearing trees.

Reestablish this cor. again, in the same place as follows: Set the same granite stone, 22x10x8 ins., 12 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor. of sec. 7 only, with marking on the E. face.

Destroy old mound of stone, and raise a new mound of stone 3 ft. base, 2 ft. high, E. of cor.
 Continue line and measurement of E. bdy. of sec. 12.

45.15 Wash, 20 lks. wide, course E.
 59.24 Wash, 20 lks. wide, 3 ft. deep, course N. 30° E.
 68.64 Wash, 20 lks. wide, 4 ft. deep, course N. 60° E.

80.16 (80.00 chs. northing from the reestablished cor. of secs. 12 and 13), set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in the ground, for reestablished cor. of secs. 1 and 12, only, marked on brass cap,

T16S	T16S
S 1	R31E
S12	S 7

R30E
 1921

Dig pits, 18x18x12 ins., one each SW. and NW. of post, 3 ft. dist.

Land, gently rolling.

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

Timber, none.

Undergrowth, dense scrub mesquite, catclaw, Spanish dagger and cacti.

Good grass.

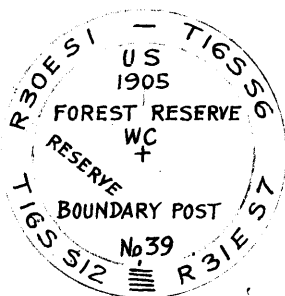
N. 3° 30' W., on a true line on E. bdy. of sec. 1.

Over gently rolling land, sloping NE., thru dense undergrowth at W. side of San Simon valley.

4.62 Intersect the Chiricahua U.S. Forest Reserve boundary post No. 39; also witness cor. to cor. of secs. 1, 6, 7 and 12, which is an iron post, 3 ins. in diam., projecting 22 ins. above ground, set in ground and mound of stone. No bearing trees. The brass cap attached to this post is marked.

Resurvey of East bdy. of Township 16 South, Range 30 East. 13

Chains.

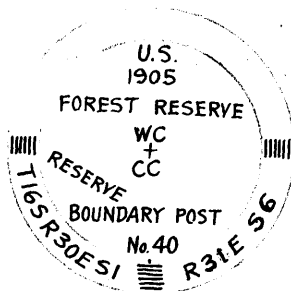


- This boundary post now witnesses the reestablished cor. of secs. 6 and 7 only at 10 lks. S. $3^{\circ}30'$ E. therefrom; therefore obliterate the marking S1 and S12 in the W. half of the brass cap;
- 4.72 (40.62 chs. N. $3^{\circ}30'$ W. from the reestablished $\frac{1}{4}$ sec. cor. of sec. 7, T. 16 S., R. 31 E.) Intersect the previously reestablished cor. of secs. 1, 6, 7 and 12, which is a porphyry stone 18x20x6 ins. above ground, firmly set, marked with 1 notch on N. edge and 5 notches on S. edge, and witnessed by old pits faintly discernable, one each NE., SE., SW. and NW. of cor. No bearing trees.
- Alter this cor. as follows: Obliterate the notches and mark S6 on NE. face and S7 on SE. face of stone, for reestablished cor. of secs. 6 and 7 only. Raise a mound of stone 3 ft. base, 2 ft. high, E. of cor.
- Continue line and measurement of E. bdy. of sec. 1.
- 37.22 Wash, 10 lks. wide, 3 ft. deep, course NE.
- 40.08 (40.00 chs. northing from the reestablished cor. of secs. 1 and 12) Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., of sec. 1 only, marked on brass cap,

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

1921

- Dig pits, 18x18x12 ins., one each N. and S. of post, 3 ft. dist.
- 45.03 (40.31 chs. N. $3^{\circ}30'$ W. from the reestablished cor. of secs. 6 and 7) Intersect the previously reestablished $\frac{1}{4}$ sec. cor. of secs. 1 and 6, which is a porphyry stone 10x10x8 ins. above ground, firmly set, marked $\frac{1}{4}$ on W. face, and witnessed by a small mound of stone, W. of cor. No bearing trees.
- Reestablish this cor. again, in the same place as follows:
- Set the same porphyry stone 20x10x8 ins., 12 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor. of sec. 6 only, with marking on the E. face. Destroy old mound of stone, and raise a new mound of stone, 3 ft. base, 2 ft. high, E. of cor.
- Continue line and measurement of E. bdy. of sec. 1.
- 53.22 Wash, 50 lks. wide, 4 ft. deep, course NE.
- 94.89 Intersect the Chiricahua U.S. Forest Reserve boundary post No. 40; also witness cor. to closing cor. of T. 16 S., R. 30 and 31 E., which is an iron post 3 ins. in diam. projecting 22 ins. above ground, firmly set in ground and mound of stone. No bearing trees.
- The brass cap attached to this post is marked



- 94.99 Intersect the previously reestablished closing cor. of T. 16 S., R. 30 and 31 E. on the 3rd Std. Par. S., which

14 Resurvey of East bdy. of township 16 South, range 30 East.
Chains.

is a porphyry stone 16x10x10 ins. above ground, firmly set, marked with 6 notches on each of E., W. and S. edges, and witnessed by faint remains of pits, one each E. W. and S. of cor.

By retracement of the 3rd std. Parallel S. along the W. $\frac{1}{2}$ of S. bdy. of sec. 31, T. 15 S., R. 31 E., as hereinbefore described, this closing cor. is found to be on said parallel; therefore, reestablish the cor. again in same place as follows:

Alongside the stone, set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for reestablished closing cor. of Ts. 16 S., Rs. 30 and 31 E., marked on brass cap,

T15S R31E
S31

S 1 S 6
R30E R31E
TL6S
: C C
1921

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

Land, gently rolling.

Soil, sandy and gravelly loam, 2nd and 3rd rate.

Timber, none.

Undergrowth, dense scrub mesquite, catclaw, Spanish dagger and cacti.

Fair grass.

Survey of South bdy. of Township 16 South, Range 30 East. 15

Chains.

- From the reestablished cor. of rs. 16 and 17 S., Rs. 30 and 31 E., hereinbefore described, west, on true line, bet. secs. 1 and 36. Over rolling land, thru. scattering undergrowth. Ascend 45 ft., over SE. slope.
- 0.03 Intersect a granite stone, 12x8x5 ins. above ground, firmly set, marked R1.
- 5.00 Ridge, brs. NE. and SW. Descend 50 ft., over NW. and W. slopes.
- 12.23 From this point, an iron post, 2 ins. in diam., projecting 14 ins. above ground, firmly set, marked 1917 6 HES 521, and witnessed by a mound of stone, S. of post, brs. South, 0.19 chs. dist.
- 12.62 Old road, brs. N. and S.
- 12.83 From this point, an iron post, 2 ins. in diam., projecting 14 ins. above ground and firmly set, marked 1917 7 HES 521 brs. South 0.19 chs. dist.
- 17.32 Wash, 20 lks. wide, course N. Ascend 15 ft. over NE. slope.
- 20.00 Descend 30 ft., over N. slope to $\frac{1}{4}$ sec. cor.
- 23.73 Old road, brs. NW. and SE.
- 34.00 Road, brs. N. and S.
- 37.20 Wire fence brs. N. 70° W. and S. 70° E.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

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

from which,

An oak, 12 ins. in diam., brs. N. 75 $\frac{1}{4}$ ° W., 570 lks. dist., marked $\frac{1}{4}$ S 36 BT.

A mesquite, 6 ins. in diam., brs. S. 69 $\frac{1}{4}$ ° E., 316 lks. dist., marked $\frac{1}{4}$ S 1 BT.

- Descend 16 ft., over NW. slope.
- 40.30 From this point, a porphyry stone, 6x10x12 ins. above ground, firmly set, marked W 2 on N. face, brs. North 0.11 chs. dist.
- 44.85 Wash, 40 lks. wide, 5 ft. deep, course N. Enter scattering timber, brs. NW. and SE. Ascend slightly over N. slope, to
- 49.48 Wash, 20 lks. wide, course N. Ascend 20 ft., over NE. slope.
- 51.50 Point of low spur, slopes N. Descend 17 ft., over NW. slope.
- 53.87 Wash, 40 lks. wide, course NE. Ascend 75 ft., over E. slope.
- 58.10 Wire fence, brs. NE. and SW.
- 60.08 From this point, an iron post, 2 ins. in diam., projecting 12 ins. above ground, firmly set, marked 1917 12 HES 521 brs. South 0.84 chs. dist.
- 70.00 Point of spur, slopes N. Descend 12 ft., over W. slope.
- 71.96 Center of wash, 2 chs. wide, course N. Ascend 20 ft., over E. slope.
- 73.94 Point of spur, slopes NE. Descend 15 ft., over NW. slope.
- 77.73 Wash, 20 lks. wide, course NE. Ascend 40 ft., over SE. slope, to
- 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 1, 2, 35 and 36, marked on brass cap,

T16S R30E
 S35 S36
 S 2 S 1
 T17S
 1921

from which,

16 South boundary of Township 16 South, Range 30 East.

Chains.

- An oak, 12 ins. in diam., brs. N. 37 $\frac{1}{2}$ ° E., 140 lks. dist., marked T16S R30E S36 BT.
- An oak, 8 ins. in diam., brs. S. 21 $\frac{1}{2}$ ° E., 94 lks. dist., marked T17S R30E S1 BT.
- An oak, 10 ins. in diam., brs. S. 73 $\frac{1}{2}$ ° W., 156 lks. dist., marked T17S R30E S2 BT.
- An oak, 10 ins. in diam., brs. N. 31 $\frac{1}{2}$ ° W., 41 lks. dist., marked T16S R30E S35 BT.

From this cor., a U.S. Forest Service monument on the Bdy. of the Chiricahua Forest Reserve, which is an oak post 3 ins. in diam., projecting 4 ft. above ground, firmly set, marked N.F. B.P. brs. N. 15 $\frac{1}{2}$ ° E., 28 lks. dist.

Land, rolling.
 Soil, rocky, 3rd and 4th rate.
 Timber, scattering oak, pine and juniper in W. 35 chs.
 No timber in E. 45 chs.
 Undergrowth, scattering catclaw, scrub mesquite, scrub oak, tesota and cacti.
 Fair grass.

West, on true line, bet. secs. 2 and 35.
 Over mountainous land, thru. scattering timber and dense undergrowth.

- 7.36 Ascend 95 ft., over SE. slope.
Spur, slopes NE.
- 11.36 Descend 27 ft., over NW. slope.
- 11.74 Telephone line, brs. NW. and SE.
- 26.60 Gully, 10 lks. wide, course N.
Ascend 270 ft. over NE. slope.
- 29.08 Spur, slopes N.
Ascend 85 ft., over W. slope.
- 40.00 Gulch, course N. Leave scattering and enter dense timber.
Ascend 290 ft., over E. slope, to
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,

S 35
 $\frac{1}{4}$ S 2
 1921

from which,
 An oak, 10 ins. in diam., brs. N. 32 $\frac{1}{2}$ ° E., 22 lks. dist., marked $\frac{1}{4}$ S 33 BT.
 A juniper, 26 ins. in diam., brs. S. 75° W., 26 lks. dist., marked $\frac{1}{4}$ S 2 BT:

- 49.54 Ascend 275 ft., over E. slope.
Spur, slopes N.
- 75.83 Descend 665 ft., over W. slope.
Wash, 50 lks. wide, course N.
- 80.00 Ascend 45 ft., over NE. slope, to
Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 2, 3, 34 and 35, marked on brass cap,

T16S R30E
 S34 S35
 S33 S 2
 T17S
 1921

from which,
 An oak, 6 ins. in diam., brs. N. 58 $\frac{1}{4}$ ° E., 32 lks. dist., marked T16S R30E S35 BT.
 An oak, 8 ins. in diam., brs. S. 7 $\frac{1}{2}$ ° E., 35 lks. dist., marked T17S R30E S2 BT.
 An oak, 14 ins. in diam., brs. S. 10 $\frac{1}{4}$ ° W., 16 lks.

South bdy. of Township 16 South, Range 30 East, 17

Chains.

dist., marked T17S R30E S3 BT.
 An oak, 6 ins. in diam., brs. N. 29° W., 30 lks.
 dist., marked T16S R30E S34 BT.
 Land, mountainous.
 Soil, rocky, 4th rate; limestone formation.
 Timber, oak, pine and juniper, scattering in E. 29 chs.;
 dense in W. 51 chs.
 Undergrowth, dense ironwood, catclaw, scrub oak, tesota,
 ocotillo and other cacti.
 Fair grass.

West, on true line, bet. secs. 3 and 34.
 Over mountainous land, thru. dense timber and undergrowth.
 Descend slightly over N. slope, to
 0.30 Wash, 10 lks. wide, course NE.
 Ascend 101 ft., over SE. slope.
 6.60 Spur, slopes NE.
 Ascend 32 ft., over N. and NE. slopes.
 10.08 Point of short spur, slopes N.
 Descend 61 ft., over NW. slope.
 15.38 Center of wash, 3 chs. wide, course N.
 Ascend 50 ft., over E. slope.
 17.58 Point of spur, slopes NE.
 Descend 25 ft., over NW. slope.
 19.15 Gulch, course NE.
 Ascend 344 ft., over SE. slope, to
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 24 ins. in
 the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$	S	34
	S	3
		1921

from which,
 A mesquite, 10 ins. in diam., brs. N. 88° W.,
 295 lks. dist., marked $\frac{1}{4}$ S 34 BT.
 An oak, 20 ins. in diam., brs. S. 16° W., 202 lks.
 dist., marked $\frac{1}{4}$ S 3 BT.

Ascend 648 ft., over SE. slope.
 64.73 Spur, ridge, brs. NE and SW. sloping NE.
 Descend 183 ft., over NW. slope.
 69.58 Gulch, course N.
 Ascend 45. ft., over NE.
 73.02 Point of spur, slopes N.
 Descend 140 ft., over NW. slope.
 77.45 Gulch, course NE.
 Ascend 138 ft., over SE. slope, to
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 20 ins.
 in the ground, to bed rock, supported by a mound of
 stone, for cor. of secs. 3, 4, 33 and 34, marked on
 brass cap,

T16S	R30E
S33	S34
S 4	S 3
T17S	
	1921

from which,
 A pine, 8 ins. in diam., brs. N. 41° E., 116 lks.
 dist., marked T16S R30E S34 BT.
 An oak, 8 ins. in diam., brs. S. 59° E., 91 lks.
 dist., marked T17S R30E S3 BT.
 A juniper, 12 ins. in diam., brs. S. 13° W., 68 lks.
 dist., marked T17S R30E S4 BT.

18 South boundary of Township 16 South, Range 30 East.

Chains.

A pine, 8 ins. in diam., brs. N. $41\frac{1}{2}^{\circ}$ W., 68 lks.
dist., marked T16S R30E S33 BT.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, dense pine, oak and juniper.

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

Fair grass.

West, on true line, bet. secs. 4 and 33.

Over mountainous land, thru. dense timber and undergrowth.

Ascend 375 ft., over SE. slope.

9.35 Spur ridge, brs. NE. and SW. sloping NE.

Descend 192 ft., over NW. slope.

17.43 Gulch, course N.

Ascend 40 ft., over E. slope.

17.68 From this point, a wooden post, 4 ins. square, marked SE

ONE on S. face, & SW-TSA on N. face, brs. S. 5° E. 1.66 chs. dist.

19.53 Point of spur, slopes NE.

Descend 27 ft., over NW. slope.

21.49 Gulch, course NE.

Ascend 310 ft., over SE. slope.

33.30 Spur, slopes NE.

Ascend 166 ft. over N. and NE. slopes, to

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

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

S 4

1921

from which,

A pine, 10 ins. in diam., brs. N. $54\frac{1}{2}^{\circ}$ W., 76 lks.
dist., marked $\frac{1}{4}$ S 33 BT.

An oak, 18 ins. in diam., brs. S. $41\frac{1}{2}^{\circ}$ W., 40 lks.
dist., marked $\frac{1}{4}$ S 4 BT.

From this cor., a post marked NW-QLK2 and SE-LK brs. N.
 $10\frac{1}{2}^{\circ}$ W., 343 lks. dist.

Ascend 215 ft., over NE. slope.

46.85 Ridge, brs. NW. and SE. forming divide between San Simon
and Sulphur Springs valley.

Descend 650 ft., over SW. slope, to

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 18 ins. in
the ground to bed rock, supported by a mound of stone,
for cor. of secs. 4, 5, 32 and 33, marked on brass cap,

T16S R30E

S32 S33

S 5 S 4

T17S

1921

from which,

An oak, 10 ins. in diam., brs. N. $15\frac{1}{2}^{\circ}$ E., 63 lks.
dist., marked T16S R30E S33 BT.

An oak, 14 ins. in diam., brs. S. 88° E., 70 lks.
dist., marked T17S R30E S4 BT.

An oak, 12 ins. in diam., brs. S. 36° W., 56 lks.
dist., marked T17S R30E S5 BT.

An oak, 4 ins. in diam., brs. N. 69° W., 23 lks.
dist., marked BT.

From this cor., a post marked NW-TIL on N. face, brs. N. 85°
 $13\frac{1}{2}^{\circ}$ E., 2.75 chs. dist.

Land, mountainous.

Soil, rocky, 4th rate; limestone formation.

Timber, dense pine, oak, cedar and juniper.

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

Fair grass.

South boundary of Township 16 South, Range 30 East. 19

Chains.

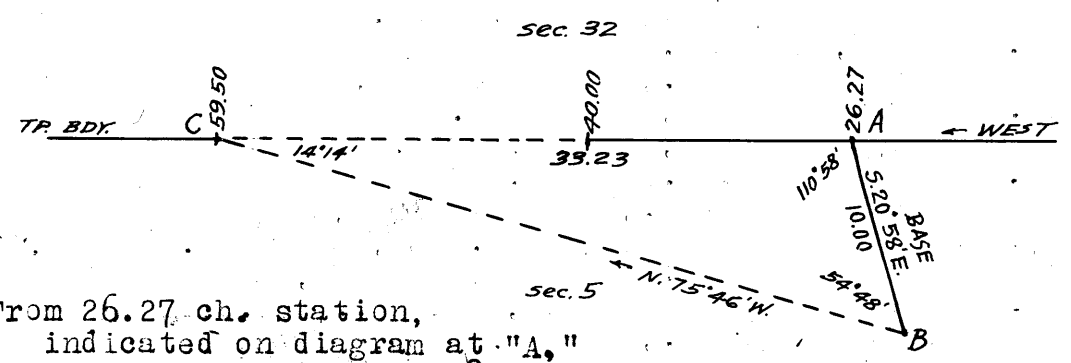
- West, on true line, bet. secs. 5 and 32.
- Over mountainous land, thru. dense timber and undergrowth.
- Descend 185 ft., over SW. slope.
- 7.35 Kasper Mine tunnel and blacksmith shop, brs. N. 3 chs. dist.
- 9.54 Cabin brs. N. about 0.50 chs. dist.
- 10.45 Gulch, course S.
- Ascend 78 ft., over E. slope.
- 10.90 Road, brs. NE. and SW.
- 17.20 Spur, slopes S.
- Descend 135 ft., over W. slope.
- 21.64 Wash, 20 lks. wide, in gulch, course S.
- Ascend 143 ft., over E. slope.
- 26.27 Triangulation point on spur, sloping S.
- Old road, brs. N. and S. At about one half a mile N. this road goes thru. the divide in a pass known as "Hands Pass."
- Descend 100 ft., over W. slope.
- 29.39 Wash, 20 lks. wide, in gulch, course S.
- Ascend 157 ft., over E. slope, to
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

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

from which,

- A. pine, 10 ins. in diam., brs. N. $26\frac{1}{2}^{\circ}$ E., 17 lks. dist., marked $\frac{1}{4}$ S 32 BT.
- An oak, 4 ins. in diam., brs. S. 73° E., 45 lks. dist., marked B T.

Beyond this point, the Tp. bdy. passes over precipitous faces of cliffs; and chaining is impracticable; therefore, triangulate as described as follows, and as shown on the diagram hereon:



From 26.27 ch. station, indicated on diagram at "A," measure a Base, S. $20^{\circ}58'$ E., 10.00 chs. to point "B."

Set flag ahead on Tp. bdy. at top of cliffs indicated on diagram at "C"

Vertical angle from "A" to "C" = $18^{\circ}20'$.

Bearing of "B-C" = N. $75^{\circ}46'$ W.

Included angles of triangle "A-B-C" are $110^{\circ}58'$, $54^{\circ}48'$ and $14^{\circ}14'$, the sum of which is $180^{\circ}00'$.

Triangulated measurement of "A-C" is obtained by

$$\frac{\sin 54^{\circ}48' \times \text{Base}}{\sin 14^{\circ}14'} \text{ or } \frac{.81714 \times 10.00}{.24587} = 33.23 \text{ chs.},$$

which, added to 26.27 chs., gives 59.50 chs. West from cor. of secs. 4, 5, 32 and 33, for the position of triangulation point "C."

- 59.50 Triangulation point at top of cliffs, 200 ft. high, bearing N. and S. facing E. forming rim of bench 670 ft. above $\frac{1}{4}$ sec. cor.
- Continue line and measurement by chaining; across point of bench sloping SW.
- Descend 47 ft., to
- 65.15 Rim of bench, brs. N. and S. Leave point of bench.

20 South boundary of Township 16 South, Range 30 East.

Chains.

- 70.73 Descend 120 ft. over W. slope.
Wasn, 20 lks. wide in gulch, course SW. near head.
- 75.30 Ascend 33 ft., over SE. slope.
Point of spur, slopes S.
- 80.00 Descend 87 ft., over SW. slope, to
Set an iron post, 3 ft. long, 2 ins. in diam., 16 ins. in
the ground to bed rock, supported by a mound of stone,
for cor. of secs. 5, 6, 31 and 32, marked on brass cap,

T16S	R30E
S31	S32
S 6	S 5

 T17S
 1921

- from which,
- A juniper, 4 ins. in diam., brs. N. 60° E., 35 lks. dist., marked BT.
 - A pine, 10 ins. in diam., brs. S. 25° E., 15 lks. dist., marked T17S R30E S5 BT.
 - A pine, 10 ins. in diam., brs. S. 25° W., 23 lks. dist., marked T17S R30E S6 BT.
 - A pine, 6 ins. in diam., brs. N. 82½° W., 70 lks. dist., marked T16S R30E S31 BT.

Land, mountainous.
Soil, rocky, 4th rate, limestone formation.
Timber, dense oak, pine, juniper and cedar.
Undergrowth, dense scrub oak, manzanita, ironwood and cacti.
Fair grass.

-
- 2.47 West, on true line, bet. secs. 6 and 31.
Over mountainous land, thru. dense timber and undergrowth.
Descend 66 ft., over SW. slope.
 - 9.00 Gulch, course S.
Ascend 143 ft., over E. slope.
Spur, slopes S.
 - 16.84 Descend 65 ft., over SW. slope.
Head of gulch, course SW.
 - 20.55 Ascend 22 ft., over SE. slope.
Ridge, brs. NE. and SW.
 - 27.80 Descend 195 ft., over NW. slope, to
Bottom of gulch, 40 lks. wide, course W. from NE.
 - 35.00 Descend 14 ft. in bottom of gulch, to
Leave bottom of gulch, course N. 70° W. from E.
 - 39.70 Ascend 192 ft., over NE. slope, to
Foot of cliffs, 50 ft. high, bearing NW. and SE., facing NE.
 - 40.00 The true point for ¼ sec. cor. falls on face of cliff, where
it is inaccessible, therefore, at
 - 42.15 Top of cliff, bearing NW. and SE., facing NE.
 - 42.30 Ascend slightly over N. slope, to
Set an iron post, 3 ft. long, 1 in. in diam., on bed rock,
supported by a mound of stone, for witness cor. to
¼ sec. cor., marked on brass cap,

¼	S 31	WC
	S 6	

 1921

- from which,
- A pine, 10 ins. in diam., brs. N. 43° W., 20 lks. dist., marked WC ¼ S 31 BT.
 - A pine, 8 ins. in diam., brs. S. 81° E., 24 lks. dist., marked WC ¼ S 6 BT.
- 69.20 Descend 430 ft., over N. and NW. slope, to
Bottom of same gulch, 50 lks. wide, course S. 80° W.
 - 80.00 Descend 96 ft., over S. slope, to
The true point for township cor. falls among large

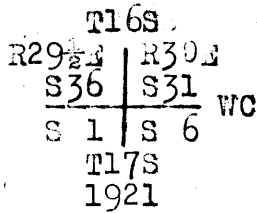
South boundary of Township 16 South, Range 30 East.

21

Chains.

83.24

boulders, where it is impracticable to set a monument. Therefore, continue measurement west; and at Set an iron post, 3 ft. long, 2 ins. in diam., 20 ins. in the ground to bed rock, supported by a mound of stone, for witness cor. to cor. of Ts. 16 and 17 S., R. 30 E., and frac. S. 16 and 17 S., R. 29 1/2 E., marked on brass cap,



from which,

A cedar, 12 ins. in diam., brs. N. 42 3/4° E., 11 lks. dist., marked WC T16S R29 1/2 E S36 BT.

An oak, 6 ins. in diam., brs. S. 28° E., 14 lks. dist., marked WC T17S R29 1/2 E S1 BT.

A pine, 8 ins. in diam., brs. S. 21° W., 22 lks. dist., marked WC T17S R29 1/2 E S1 BT.

A cedar, 24 ins. in diam., brs. N. 16 1/2° W., 31 lks. dist., marked WC T16S R29 1/2 E S36 BT.

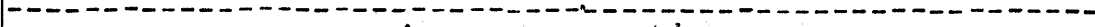
Land, mountainous.

Soil, rocky, 4th rate, porphyry formation.

Timber, dense pine, cedar, juniper and oak.

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

Fair grass.



Survey of
22 West bdy. of Township 16 South, Range 30 East.

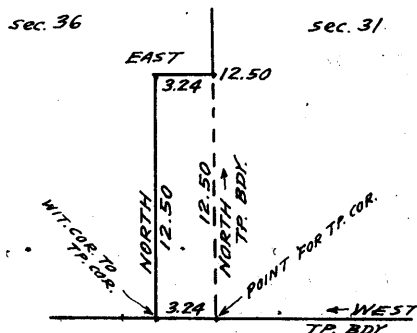
Chains.

From the true point for cor. of T_s. 16 and 17 S., R. 30 E., and
frac¹/₄ T_s. 16 and 17 S., R. 29¹/₂ E.,

North, on true line, bet. secs. 31 and 36.

Over mountainous land, thru dense timber and undergrowth.
Ascend 390 ft., over S. slope.

To avoid large boulders and cliffs, obtain measurement of
the beginning of this range line by means of offset, as
described as follows, and as shown on the diagram
hereon:



From true point for Tp. cor.,
West, 3.24 chs. to the witness
cor. to Tp. cor.

Thence,

North, 12.50 chs. on offset line
parallel to range line to
offset point in sec. 36, frac¹/₄
T_s. 16 S., R. 29¹/₂ E.

Thence,

East, 3.24 chs., along top of spur,
sloping west, returning to
point on range line at

12.50 Offset point on top of spur, sloping W., covered with
rock, columns and pinnacles.

Thence

North, on range line, continuing measurement from Tp. cor.
point.

Descend 145 ft., over N. slope.

21.12 Bottom of gulch, 20 lks. wide, course N. 80° W.

Ascend 203 ft., over S. slope.

25.00 Ridge, brs. E. and W.

Descend 278 ft., over N. slope.

34.00 Bottom of gulch, 30 lks. wide, course W.

Ascend 295 ft., over S. slope, to

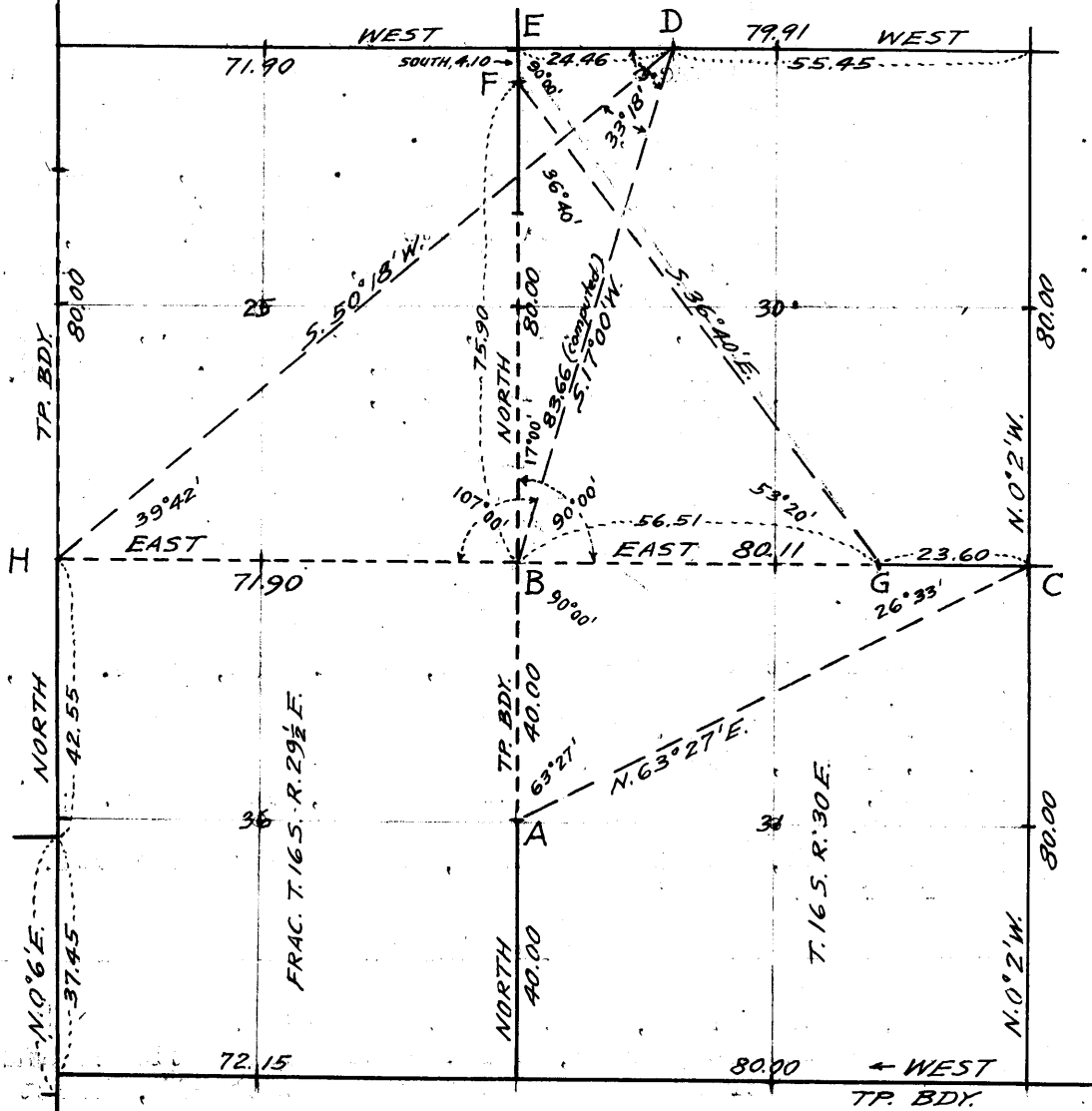
40.00 Set an iron post, 3 ft. long, 1 in. in diam., on bed rock,
supported by a mound of stone, for ¹/₄ sec. cor., marked
on brass cap,

¹/₄
S36 | S31

1921

and raise mound of stone, 3 ft. base, 2 ft. high, W. of cor.
Owing to the extremely rough and broken nature of the sur-
face beyond this point, it is impracticable to chain
measurement to the cor. of secs. 25, 30, 31 and 36 from any
direction; therefore, locate said sec. cor., and measurement
thereto by triangulation, as described as follows, and as
shown on the diagram hereon:

Chains.



From $\frac{1}{2}$ sec. cor. of secs. 31 and 36, indicated on diagram at "A" a flag "C" at cor. of secs. 29, 30, 31 and 32 is visible, and bears N. 63° 27' E.

The point for cor. of secs. 25, 30, 31 and 36 indicated on diagram at "B" is invisible from either point "A" or point "C" but by computation of the triangle "A-B-C" is found to be 40.00 chs. N. from "A" and 80.05 chs. West from "C."

The line bet. secs. 19 and 30 is surveyed due West, and at the theoretical distance of 79.91 chs., the cor. of secs. 19, 24, 25 and 30 is established as indicated on diagram at "E." The sec. cor. point "B" is invisible from "E," but is visible from point "D" on sec. line bet. secs. 19 and 30, at 24.46 chs. E. from "E," and 55.45 chs. W. from the cor. of secs. 19, 20, 29 and 30.

From point "D" a flag at the cor. of secs. 25 and 36 on W. bdy. of fract. T. 16 S., R. 29 $\frac{1}{2}$ E., indicated on diagram at "H" is visible, and brs. S. 50° 18' W. By computation of triangles "B-D-E" and "B-D-H" the sec. line between secs. 25 and 36, fract. T. 16 S., R. 29 $\frac{1}{2}$ E. (H-B) is found to be East, 71.90 chs.; therefore, establish sec. cor. point "B" East from "H" and S. 17° 00' W. (computed bearing) from "D", said sec. cor. point being visible from both points.

From sec. cor. "E" measure South, 4.10 chs. on Tp. bdy. to point "F" from which, point "G" on line, bet. secs. 30 and 31, 23.60 chs. W. from cor. of secs. 29, 30, 31 and 32 is visible; and bears S. 36° 40' E. By computation of the triangle "B-F-G" the sec. cor. point "B" is found to be 75.90 chs. South from "F," 80.00 chs. South from "E", and 56.51 chs. West from "G." The total length of sec. line, bet. secs. 30 and 31 is therefore 56.51 chs. + 23.60 chs. = 80.11 chs., and its true bearing is East, based upon the establishment of "B" from bearings from "D" and "H" which agree exactly with

24 West boundary of Township 16 South Range 30 East.

Chains

- the bearing obtained by computation of the triangle "A-B-C" and such length agrees very closely with the length obtained by said triangle "A-B-C"
- 44.00 (Approximate) Gulch, course SW.
Ascend over steep broken S. and SW. slopes, covered with high rock pedestals, almost impassable.
- 60.00 (Approximate) Descend over steep broken N. slope, to
- 80.00 Point determined by triangulation, as hereinbefore described.
- Set an iron post, 3 ft. long, 2 ins. in diam., on bed rock, supported by a mound of stone, for cor. of secs. 25, 30, 31 and 36, marked on brass cap,
- | | |
|---------------------|------|
| T16S | |
| R29 $\frac{1}{2}$ E | R30E |
| S25 | S30 |
| S36 | S31 |
| 1921 | |
- and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
- Land. mountainous.
Soil, rocky, 4th rate.
Timber, large pine, juniper and oak, dense in S. $\frac{1}{2}$; scattering in N. $\frac{1}{2}$.
Undergrowth, dense manzanita, scrub oak and cacti.
Fair grass.

- North, on true line, bet. secs. 25 and 30.
Over mountainous land, thru. scattering timber and dense undergrowth and high rock pedestals, almost impassable.
Chaining is impracticable; therefore measurement to the cor. of secs. 19, 24, 25 and 30 is obtained by survey of the subdivision line between secs. 19 and 30 west a theoretical distance of 79.91 chs., and the cor. position checked by a triangulation as hereinbefore described and illustrated by diagram.
- 20.00 (Approximate) Bottom of canyon, course W.
Ascend over precipitous SE. slope of Sugar Loaf mountain, thru. high rock pedestals.
- 40.00 True point for $\frac{1}{4}$ sec. cor. falls on precipitous rocky slope among massive boulders and pinnacles, and is inaccessible; therefore, establish witness cor. at 14.50 chs. N. as described as follows:
From the cor. of secs. 19, 24, 25 and 30, chain measurement, South 25.50 chs. to
- 54.50 Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in the ground to bed rock, supported by a mound of stone, for witness cor. to $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$	
S25	S30
W/C	
1921	

- from which,
- A pine, 6 ins. in diam., brs. S. 58° E., 33 lks. dist., marked WC $\frac{1}{4}$ S 30 BT.
- A pine, 6 ins. in diam., brs. N. 72 $\frac{1}{2}$ ° W., 58 lks. dist., marked WC $\frac{1}{4}$ S 25 BT.
- Leave the high rock pedestals, bearing E. and W.
Ascend 250 ft. over SE. and E. slopes of Sugar Loaf Mountain to sec. cor.
- 75.90 From this point a flag on the witness cor. to $\frac{1}{4}$ sec. cor. of secs. 30 and 31, brs. S. 36° 40' E.
- 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 12 ins. in the ground to bed rock, deposit a stone, marked with a

West boundary of Township 16 South, Range 30 East. 25

Chains.

cross (x) at base of post, and raise a mound of stone around post, for cor. of secs. 19, 24, 25 and 30, marked on brass cap,

T16S	
R29 $\frac{1}{2}$ E	R30E
S24	S19
S25	S30
1921	

from which,

A juniper, 4 ins. in diam., brs. N. $79\frac{1}{2}^{\circ}$ E., 85 lks. dist., marked BT.

A juniper, 4 ins. in diam., brs. S. $51\frac{1}{2}^{\circ}$ E., 43 lks. dist., marked BT.

No other trees within limits.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, scattering juniper, pine and cedar.

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

Pair grass.

-
- North, on true line, bet. secs. 19 and 24.
Over mountainous land, thru. dense timber and undergrowth. Descend slightly over N. slope, to
- 2.50 Descend 20 ft., over NE. slope, to
- 4.30 SW. rim of gulch, brs. NW. and SE. Beyond this point, the range line crosses a deep gulch, with precipitous sides, and chaining is impracticable; therefore, make stadia measurement across the gulch.
Mean of three rod readings, 13.3 ft. Vertical angle, -10° . The distance to rod is therefore 25.85 chs., which, added to 4.30 chs. gives 30.15 chs. north from sec. cor. for the position of rod point.
- 10.00 (Approximate) Bottom of gulch, course NW. about 500 ft. below sec. cor.
- Ascend about 200 ft., over SW. slope, to
- 30.15 Rod point on point of spur sloping W. 310 ft. below sec. cor.
- Descend 33 ft., over NW. slope, to
- 32.29 S. rim of gulch, brs. E. and W. Beyond this point, the range line crosses a deep gulch with precipitous sides and chaining is impracticable; therefore make stadia measurement across the gulch.
Mean of three rod readings, 4.925 ft. vertical angle, -21° . The distance to rod is therefore 8.60 chs., which added to 32.29 chs. gives 40.89 chs. North from sec. cor. for the position of rod point.
- 39.000 (Approximate) Bottom of gulch, course W. 265 ft. below S. rim. Asc. 75 ft. over steep SW. slope, to rod point.
- 40.00 From rod pt. at 40.89 ch. station chain measurement S. 0.89 chs. to set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground, to bed rock, supported by a mound of stone for $\frac{1}{4}$ sec. cor., marked on brass cap,

S24 $\frac{1}{4}$	
S24	S19
1921	

from which,

An oak, 4 ins. in diam., brs. N. 33° E., 10 lks. dist., marked BT.

An oak, 3 ins. in diam., brs. N. 12° W., 20 lks. dist., marked BT.

Thence,

North, continuing measurement from sec. cor. by chaining.

25 West boundary of Township 16 South, Range 30 East.

chains.

- 45.00 Ascend 200 ft., over steep SW. slope.
Point of spur, slopes W.
70.00 Descend 510 ft., over NW. slope.
Bonita Creek, with small stream of water, course SW. in bottom of canyon.
80.00 Ascend 82 ft., over SE. slope, to
Set an iron post, 3 ft. long, 2 ins. in diam., 8 ins. in the ground to bed rock, supported by a mound of stone, for cor. of secs. 13, 18, 19 and 24, marked on brass cap,

T16S
R29½E | R30E
S13 | S13
S24 | S19
1921

from which,

- An oak, 4 ins. in diam., brs. N. 37½° E., 26 lks. dist., marked BT.
A pine, 12 ins. in diam., brs. S. 72° E., 84 lks. dist., marked T16S R30E S19 BT.
An oak, 4 ins. in diam., brs. S. 22° W., 10 lks. dist., marked BT.
An oak, 4 ins. in diam., brs. N. 5° W., 12 lks. dist., marked BT.

Land, mountainous.

Soil, rocky, 4th rate, sandstone formation.

Timber, dense pine, oak, cedar and juniper and cacti.

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

Fair grass.

- North, on true line, bet. secs. 13 and 18.
Over mountainous land, thru. dense timber and dense undergrowth.
6.65 Ascend 130 ft., over SE. slope.
Point of spur, slopes E.
21.12 Descend 40 ft., over NE. slope.
Wash, course E.
25.14 Ascend 300 ft., over S. slope, to
Spur, slopes E.
30.00 Descend 20 ft., over NE. slope.
Ascend 41 ft., over SE. slope, to
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap,

S13 | S18
1921

from which,

- A pine, 8 ins. in diam., brs. N. 32° E., 15 lks. dist., marked ½ S 18 BT.
A pine, 10 ins. in diam., brs. S. 63° W., 7 lks. dist., marked S13 BT.
54.50 Descend 105 ft., over NE. slope.
Dry bed of Bonita Creek, course SE.
55.30 Ascend 410 ft., over S. and SE. slopes.
Trail, brs. NW. and SE.
74.36 Spur, slopes SW. from N.
80.00 Ascend slightly over W. slope, to
Set an iron post, 3 ft. long, 2 ins. in diam., 10 ins. in the ground to bed rock, supported by a mound of stone, for cor. of secs. 7, 12, 13 and 18, marked on brass cap,

T16S
R29½E | R30E
S12 | S 7
S13 | S18
1921

West boundary of Township 16 South, Range 30 East. 27

Chains.

from which,

An oak, 6 ins. in diam., brs. N. 37° E., 19 lks. dist., marked T16S R30E S7 BT.

An oak, 12 ins. in diam., brs. S. 50° E., 50 lks. dist., marked T16S R30E S18 BT.

An oak, 10 ins. in diam., brs. S. 53° W., 14 lks. dist., marked T16S R29E S13 BT.

An oak, 4 ins. in diam., brs. N. 20 1/2° W., 32 lks. dist., marked BT.

Land, mountainous.

Soil, rocky, 4th rate, limestone formation.

Timber, dense pine, oak, juniper and cedar.

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

Fair grass.

North, on true line, bet. secs. 7 and 12.

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

- 8.10 Ascend 115 ft., over W. slope.
- 12.10 Descend 21 ft., over W. slope.
- 17.92 Ascend 85 ft., over SW. slope.
- 17.92 Point of spur, slopes W.
- 19.72 Descend 56 ft., over NW. slope.
- 19.72 Gulch, course SW.
- 40.00 Ascend 563 ft., over SE. slope, to
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., on bed rock, supported by a mound of stone, for 1/4 sec. cor., marked on brass cap,

1/4
S12 | S 7
1921

from which,

A juniper, 14 ins. in diam., brs. S. 48 1/2° E., 54 lks. dist., marked 1/4 S 7 BT.

A juniper, 10 ins. in diam., brs. N. 46 1/2° W., 50 lks. dist., marked 1/4 S 12 BT.

- 41.00 Ascend 14 ft., over SE. slope.
- 41.00 Spur, slopes SW.
- 45.94 Ascend 40 ft., over W. slope.
- 45.94 Ascend 190 ft., over SW. and S. slopes.
- 59.12 Ridge brs. E. and W. forming divide between Sulphur Springs valley and San Simon valley.
- 80.00 Descend 875 ft., over N. slope, to
- 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 1, 6, 7 and 12, marked on brass cap,

T16S
R29 1/2 E | R30 E
S 1 | S. 6
S12 | S 7
1921

from which,

An oak, 12 ins. in diam., brs. N. 50° E., 42 lks. dist., marked T16S R30E S6 BT.

An oak, 10 ins. in diam., brs. S. 26° E., 16 lks. dist., marked T16S R30E S7 BT.

An oak, 10 ins. in diam., brs. S. 55° W., 23 lks. dist., marked T16S R29 1/2 E S12 BT.

A pine, 10 ins. in diam., brs. N. 59° W., 48 lks. dist., marked T16S R29 1/2 E S1 BT.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, dense oak, pine, juniper and cedar.

28 West boundary of Township 16 South, Range 30 East.

Chains.

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

North, on true line, bet. secs. 1 and 6.
Over mountainous land, thru. dense timber and undergrowth.
Descend 56 ft., over N. slope.
1.58 Gulch, course NE., containing a small stream of water.
Ascend 145 ft., over SE. slope.
20.00 Spur, slopes E.
Descend 75 ft., over N. slope.
25.94 Gulch, course E.
Ascend 60 ft., over S. slope.
28.60 Spur, slopes E.
Descend 75 ft., over N. slope.
31.94 Gulch, course E.
Ascend 60 ft., over S. slope.
28.60 Spur, slopes E.
Descend 400 ft., over N. slope, to
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

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

1921

from which,

An oak, 4 ins. in diam., brs. N. 12° E., 20 lks.
dist., marked BT.
An oak, 4 ins. in diam., brs. S. $36\frac{1}{2}^{\circ}$ W., 25 lks.
dist., marked BT.
Descend 310 ft., over N. slope.
48.25 Gulch, course NE.
Ascend 15 ft., over SE. slope.
52.50 Point of spur, slopes NE.
Descend 380 ft., over N. and NE. slopes.
54.00 Tunnel brs. West 0.20 chs. dist.
77.26 Trail, brs. NW. and SE.
79.26 Bottom of wood canyon, 50 lks. wide, with small stream of
water, course N. 30° W.
Ascend 180 ft., over SW. slope.
92.95 Spur, slopes NW.
Descend 132 ft., over NE. slope, to
95.74 Intersect Third Standard Parallel South, 8.10 chs. West
of the standard $\frac{1}{4}$ sec. cor. of sec. 31, T. 15 S., R. 30 E.,
reestablished by W. B. Kimmel, U.S.S., in 1914, which is
an iron post, 1 in. in diam., projecting 18 ins. above
ground, firmly set in ground and mound of stone,
properly marked on brass cap, and witnessed by two
properly marked bearing trees, as follows:

An oak, N. 19° E., 14 lks. dist.

An oak, N. 72° W., 56 lks. dist.

At point of intersection,
Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in
the ground, for closing cor. of T. 16 S., R. 30 E., and
frac. T. 16 S., R. $29\frac{1}{2}$ E., marked on brass cap,

T15S R30E

S31

S 1 | S 6

R29 $\frac{1}{2}$ E R30E

T16S

C C

1921

West boundary of Township 16 South, Range 30 East 29

Chains.

from which,
 An oak, 4 ins. in diam., brs. S. $58\frac{1}{2}^{\circ}$ E., 30 lks.
 dist., marked CC BT.
 An oak, 4 ins. in diam., brs. S. 75° W., 58 lks.
 dist., marked CC BT.

Land, mountainous.
 Soil, rocky, 4th rate, limestone formation.
 Timber, dense oak, pine, juniper and cedar.
 Undergrowth, dense scrub oak, ironwood, tesota, catclaw and
 cacti.
 Fair grass.

 Boundaries of Township, 16. South, Range 30 East.

 Latitudes, departures and closing errors.

Line designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
South boundary,	West,	480.00				480.00
West boundary,	North,	495.74	495.74			
North boundary, (3rd Std. Par. S.)	East, N. $89^{\circ}43'$ E.	453.60 11.86			453.60 11.86	
East boundary,	S. $3^{\circ}30'$ E.	252.76		252.29	15.43	
	S. $0^{\circ}6'$ W.	40.27		40.27		.07
	S. $0^{\circ}3'$ W.	40.06		40.06		.04
	S. $0^{\circ}53'$ W.	40.84		40.84		.62
	S. $0^{\circ}19'$ E.	40.34		40.34	.22	
	S. $0^{\circ}10'$ W.	81.04		81.04		.23
Convergency,					.47	
Totals,			495.74	494.84	481.58	480.96
			494.84		480.96	
	Error in latitude,		0.90			
	Error in departure,				0.62	

30 Survey of Subdivision Lines of Township 16 South, Range 30 East.

Chains.

From the cor. of secs. 1, 2, 35 and 36 on the S. bdy. of the Tp., hereinbefore described,
North, on sectional guide meridian, bet. secs. 35 and 36.
Over rolling land, thru. scattering timber and undergrowth.
Ascend 80 ft., over S.E. slope.
6.38 Spur slopes NE.
Descend 230 ft. over N. slope to $\frac{1}{4}$ sec. cor.
15.00 Leave timber, brs. W. and SE.
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$
S35 | S36
1921

and raise a mound of stone, 3 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
Thence over nearly level land.
Descend 70 ft., over N. slope.
41.45 From this point, C. T. Hall's house, brs. N. $22\frac{3}{4}^{\circ}$ W.
45.00 Old road, brs. NW. and SE.
56.00 Old road, brs. NE and SW.
62.00 Center of Whitetail wash, 3.00 chs. wide, course E.
Ascend 25 ft., over S. slope to sec. cor.
63.50 Road brs. E. and W.
71.40 Barb wire fence brs. N. 80° E. and S. 80° W.
Telephone line, same bearing.
80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in the ground, for cor. of secs. 25, 26, 35 and 36, marked on brass cap,

T16S | R30E
S26 | S25
S35 | S36
1921

and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
From this cor., C. T. Hall's house brs. S. $9\frac{3}{4}^{\circ}$ W.,
G. R. Hall's house brs. N. $82^{\circ}50'$ E.
Land, rolling and nearly level.
Soil, gravelly and rocky, 2nd and 3rd rate.
Timber, scattering oak and cedar in S. 15 chs. No timber in N. 65 chs.
Undergrowth, scattering scrub mesquite, catclaw and cacti.
Good grass.

East, on a random line, bet. secs. 25 and 36.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.20 Intersect the reestablished cor. of secs. 25 and 36, on the E. bdy. of the Tp., hereinbefore described.
Thence,
West, on a true line, bet. secs. 25 and 36.
Over nearly level land, sloping NE., thru. scattering undergrowth.
4.80 Wash, 40 lks. wide, course NE.
35.20 Center of Whitetail wash, 5 chs. wide, course N. 75° E.
Ascend very gradually, over S.E. and S. slopes to sec. cor.
40.10 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$ S 25
S 36
1921

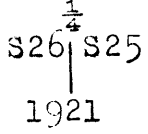
from which,
A willow, 12 ins. in diam., brs. N. $60\frac{1}{2}^{\circ}$ E., 39 lks. dist., marked $\frac{1}{4}$ S 25 3T.

Subdivision lines of Township 16 South Range 30 East 31

Chains.

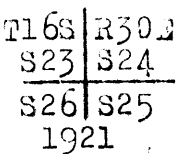
A willow, 5 ins. in diam., brs. S. 18° E., 71 lks.
 dist., marked $\frac{1}{4}$ S 36 BT.
 43.20 Main road, brs. S. 70° W. and N. 70° E.
 46.80 Barb wire fence and telephone line, bear N. 70° E. and S.
 70° W.
 80.20 The cor. of secs. 25, 26, 35, and 36.
 Land, nearly level.
 Soil, coarse black sandy loam, 1st rate.
 Timber, none.
 Undergrowth, scattering catclaw, scrub mesquite and cacti.
 Good grass.

 North, on sectional guide meridian, bet. secs. 25 and 26.
 Over rolling land, thru scattering undergrowth.
 Ascend 110 ft., over S. and SW. slopes.
 20.00 Low ridge, brs. NW. and SE. Enter very scattering timber.
 Descend 35 ft., over NE. slope, to
 35.00 Leave rolling, and enter mountainous land.
 Descend 76 ft., over N. slope.
 39.17 Gulch, course E.
 Ascend 47 ft., over S. slope, to
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
 the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,



from which,

An oak, 10 ins. in diam., brs. S. 9° E., 116 lks.
 dist., marked $\frac{1}{4}$ S 25 BT.
 An oak, 12 ins. in diam., brs. S. 15 $\frac{1}{2}$ ° W., 143 lks.
 dist., marked $\frac{1}{4}$ S 26 BT.
 Ascend 351 ft., over S. slope.
 41.50 Old road, brs. NW. and SE.
 53.31 Point of spur, slopes E.
 Descend 72 ft., over NE. slope.
 59.67 Wash, 40 lks. wide, in gulch, course SE. near head.
 Ascend 250 ft., over S. slope.
 74.00 Barb wire fence, brs. NE. and SW.
 74.97 Ridge, brs. E. and W.
 Descend 150 ft., over N. slope, to
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 14 ins. in
 the ground to bed rock, supported by a mound of stone
 for cor. of secs. 23, 24, 25 and 26, marked on brass
 cap,



from which,

An oak, 10 ins. in diam., brs. N. 27 $\frac{1}{2}$ ° E., 72 lks.
 dist., marked T16S R30E S24 BT.
 A rock ledge marked cross (x) 80 S25 brs. S. 73° 40'
 E., 46 lks. dist.
 A juniper, 4 ins. in diam., brs. S. 50 $\frac{1}{2}$ ° W., 71 lks.
 dist., marked BT.
 An oak, 10 ins. in diam., brs. N. 52 $\frac{1}{2}$ ° W., 63 lks.
 dist., marked T16S R30E S23 BT.
 Land, S. 35 chs. rolling; N. 45 mountainous.
 Soil, gravelly, 2nd rate in S. 35 chs.; remainder, rocky,
 4th rate.
 Timber, very scattering oak and juniper in N. 60 chs.
 Undergrowth, scattering catclaw, tesota, Spanish dagger,

32 Subdivision lines of Township 16 South, Range 30 East.

Chains.

ocotillo and other cacti.
Good grass.

-
- East, on a random line, bet. secs. 24 and 25.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.55 Fall 4 lks. N. of the reestablished cor. of secs. 24 and 25,
on the E. bdy. of Tp., hereinbefore described.
Thence,
N. $89^{\circ}58'W.$, on a true line, bet. secs. 24 and 25.
Over mountainous land, thru very scattering timber and
scattering undergrowth.
Descend 237 ft., over W. slope.
16.98 Wash, 20 lks. wide, in gulch, course N. A spring brs. S.
about 20 chs. dist. at the head of this gulch.
Ascend 480 ft., over NE. slope to $\frac{1}{4}$ sec. cor.
20.00 Prospect hole brs. N. 1.50 chs. dist..
23.40 Old road brs. N. $40^{\circ}W.$ and S. $40^{\circ}E.$
40.55 Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in
the ground to bed rock, supported by a mound of stone,
for $\frac{1}{4}$ sec. cor., marked on brass cap,

S 24
S 25
1921

- and raise a mound of stone, 3 ft. base, 2 ft. high, N.
of cor.
Ascend 35 ft., over NE. slope.
41.00 Point of spur, slopes N.
Descend 15 ft., over NW. slope.
46.00 Ascend 40 ft. over NE. slope.
51.00 Descend 60 ft., over NW. slope.
57.05 Gulch, course N. near head. Seepage spring on line at
this point.
Ascend 272 ft., over NE. slope.
66.22 Spur, slopes N.
Descend 325 ft., over NW. and N. slopes, to
80.55 The cor. of secs. 23; 24, 25 and 26.
Land, mountainous.
Soil, rocky, 4th rate.
Timber, very scattering oak and cedar.
Undergrowth, scattering catclaw, tesota, scrub oak, ocotillo
and other cacti.
Good grass.

-
- North, on sectional guide meridian, bet. secs. 23 and 24.
Over mountainous land, thru scattering timber and dense
undergrowth.
Descend 423 ft., over steep N. slope, to
20.00 Foot of steep slope, brs. E. and W. Leave mountainous,
and enter rolling land.
Descend 132 ft., over N. slope to $\frac{1}{4}$ sec. cor.
23.83 Leave timber, brs. E. and W. Continue thru. dense under-
growth.
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$
S23 | S24
1921

from which,

- A mesquite, 3 ins. in diam., brs. N. $37^{\circ}E.$, 100
lks. dist., marked BT.
A mesquite, 3 ins. in diam., brs. S. $8^{\circ}W.$, 54 lks.
dist., marked BT.

Subdivision lines of Township 16 South, Range 50 East, 33

Chains.

From this cor.,
Buckalew ranch house brs. N. 31 1/2° W.
Windmill brs. N. 30° E.
Rock house brs. S. 68 1/2° E.

- 47.80 Descend 40 ft., over N. slope.
- 49.00 Barb wire fence, brs. NW. and SE.
- 52.40 Old road, brs. NW. and SE.
- 53.50 Center of wash, 1 ch. wide, course E. Thence over level land.
- 62.70 Old rail fence, brs. NE. and SW. Enter field, same bearing.
- 65.20 Wire fence, brs. NE. and SW. Leave field.
- 70.00 Old road, brs. NE. and SW.
- 75.83 Dry bed of Oak Creek, 2.50 chs. wide, course N. 70° E. Leave level, and enter rolling land.
- Ascend 55 ft., over S. slope.
- 75.83 Top of low hill, brs. E. and W. From this point, Windmill brs. S. 60 1/2° E.
Rock house, brs. S. 30° 22' E.
Buckalew ranch house brs. S. 21° W.
- 80.00 Descend 23 ft., over N. slope, to
Set an iron post, 3 ft. long, 2 ins. in diam., 18 ins. in the ground to bed rock, supported by a mound of stone, for cor. of secs. 13, 14, 23 and 24, marked on brass cap,

T16S	R30E
S14	S13
S23	S24
1921	

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

Land, S. 20 chs., mountainous; remainder, rolling and nearly level.

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

Timber, scattering cedar and mesquite in S. 24 chs. None elsewhere.

Undergrowth, dense scrub mesquite, catclaw, Spanish dagger, tesota, ocotillo and other cacti.

Good grass.

- 40.00 S. 89° 58' E., on a random line, bet. secs. 13 and 24.
- 80.74 Set temp. 1/4 sec. cor.
Fall 9 lks. N. of the reestablished cor. of secs. 13 and 24 on E. bdy. of Tp., hereinbefore described.

Thence,
N. 89° 54' W., on a true line, bet. secs. 13 and 24.
Over gently rolling land, thru. scattering undergrowth, along N. and NE. slopes, ascending slightly to

- 40.74 Set an iron post, 3 ft. long, 1 in. in diam., 24 ins. in the ground, for 1/4 sec. cor., marked on brass cap,

1/4	S 13
	S 24
1921	

Dig pits, 18x18x12 ins., one each E. and W. of post, 3 ft. dist.

Leave scattering, and enter dense undergrowth.

- 58.00 Descend slightly over NW. slope, to
Center of dry bed of Oak Creek, 5 chs. wide, course NE.
- 63.20 Ascend 45 ft., over NE. slope to sec. cor.
- 64.20 Barb wire fence, brs. N. and S.
- 80.74 Road, brs. SW. and NE.
The cor. of secs. 13, 14, 23 and 24.
Land, gently rolling.

34 Subdivision lines of Township 16 South, Range 30 East.

Chains.

Soil, gravelly and rocky, 2nd to 4th rate.
 Timber, none.
 Undergrowth, catclaw, scrub mesquite, and cacti, scattering
 in E. $\frac{1}{2}$; dense in W. $\frac{1}{2}$.
 Good grass.

North, on sectional guide meridian, bet. secs. 13 and 14.
 Over nearly level land, thru. dense undergrowth.
 Descend 40 ft., over N. slope, to
 21.50 Wash, 50 lks. wide, 4 ft. deep, course E. Thence along
 E. slope, with slight change in elevation.
 28.50 Wash, 40 lks. wide, 6 ft. deep, course E.
 37.00 Wire fence, brs. E. and W.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
 the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$
 S14 | S13
 1921

from which,

A mesquite, 3 ins. in diam., brs. N. $30\frac{1}{2}^{\circ}$ E., 100 lks.
 dist., marked BT.
 A mesquite, 5 ins. in diam., brs. N. $44\frac{1}{2}^{\circ}$ W., 158 lks.
 dist., marked $\frac{1}{4}$ S 14 BT.
 41.60 Shallow wash, 1 ch. wide, course E.
 Ascend 15 ft., over SE. slope.
 55.00 Descend 50 ft., over NE. slope to sec. cor. point.
 60.00 Old road, brs. N. 10° E. and S. 10° E.
 75.15 Telephone line, brs. NE. and SW.
 77.10 Same old road, brs. E. and W.
 77.20 Branch of telephone line, brs. W. to Noland Ranch.
 79.90 S. edge of dry bed of Keating Creek, brs. N. 85° E. and S. 85° W.
 Set an iron post, 3 ft. long, 2 ins. in diam., 12 ins. in
 the ground to bed rock, supported by a mound of stone,
 for witness cor. to cor. of secs. 11, 12, 13 and 14, marked
 on brass cap;

W C
 T16S | R30E
 S11 | S12
 S14 | S13
 1921

from which,

A walnut, 10 ins. in diam., brs. N. $59\frac{1}{2}^{\circ}$ E., 41 lks.
 dist., marked WC T16S R30E S12 BT.
 A walnut, 12 ins. in diam., brs. S. $34\frac{1}{2}^{\circ}$ E., 100 lks.
 dist., marked WC T16S R30E S13 BT.
 A walnut 10 ins. in diam., brs. S. $62\frac{1}{2}^{\circ}$ W., 16 lks..
 dist., marked WC T16S R30E S14 BT.
 A walnut, 5 ins. in diam., brs. N. 77° W., 56 lks.
 dist., marked WC T16S R30E S11 BT.
 Thence across dry creek bed.
 80.00 The true point for cor. of secs. 11, 12, 13 and 14 falls
 in dry bed of Keating Creek, 60 lks. wide, course N. 85° E.
 Not monumented owing to danger of monument being washed
 out. Witness cor. established at 0.10' chs. S. as de-
 scribed above.
 Land, nearly level.
 Soil, gravelly, 2nd and 3rd rate.
 Timber, scattering mesquite, walnut along the washes. None
 elsewhere.
 Undergrowth, dense greasewood, catclaw, scrub mesquite,
 tesota and ocotillo.
 Good grass.

Subdivision lines of Township 16 South, Range 30 East, T35

Chains.

From the true point for cor. of secs. 11, 12, 13 and 14, S. 89° 54' E., on a random line, bet. secs. 12 and 13.

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

76.06 Fall 19 lks. S. of the reestablished cor. of secs. 12 and 13, on the E. bdy. of the Tp., hereinbefore described.

Thence, S. 89° 58' W., on a true line, bet. secs. 12 and 13.

Over nearly level land, thru. dense undergrowth, ascending very gradually to sec. cor.

11.00 Dry bed of Keating Creek, 100 lks. wide, course NE.

14.00 Same dry creek bed, course SE.

18.25 Same dry creek bed, course NE.

27.35 Same dry creek bed, course SE.

36.06 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 12
S 13
1921

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

39.85 Barbwire fence, brs. N. and S.

64.00 Same dry creek bed, course NE.

67.00 Same dry creek bed, 60 lks. wide, course SE.

76.06 The true point for cor. of secs. 11, 12, 13 and 14, in dry bed of Keating Creek, course N. 85° E.

Land, nearly level.

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

Timber, none, except scattering fringe of mesquite and walnut, along Keating Creek.

Undergrowth, dense catclaw, scrub mesquite, ironwood, tesota and cacti.

Good grass.

From the true point for cor. of secs. 11, 12, 13 and 14, North, on sectional guide meridian, bet. secs. 11 and 12.

Over nearly level land, thru. dense undergrowth.

Across dry bed of Keating Creek, course N. 85° E.

0.50 N. edge of creek bed, brs. N. 85° E. and S. 85° W. Leave creek bed. Thence over E. slope, with slight change in elevation.

16.80 Wash, 20 lks. wide, 3 ft. deep, course E. Continue over E. slope.

23.40 Barb wire fence, brs. E. and W.

28.00 Fence cor. brs. W. 2.00 chs. dist., from which fence extends N. and W.

30.70 Gate in N. and S. fence, brs. W. 1:50 chs. dist.

33.60 Old road, brs. NE. and SW.

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

$\frac{1}{4}$
S 11 | S 12
1921

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

Fence brs. N. and S. at about 3 chs. W. of this cor.

Thence over NE. slope, descending very gradually to sec. cor.

52.00 Wash, 15 lks. wide, 3 ft. deep, course NE.

70.00 Wash, 20 lks. wide, 3 ft. deep, course NE.

77.00 Wash, 20 lks. wide, course NE.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in the ground, for cor. of secs. 1, 2, 11 and 12, marked on brass cap,

36 Subdivision lines of Township 16 South, Range 30 East.

chains.

T16S	R30E
S 2	S 1
S11	S12
1921	

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

Land, nearly level.

Soil, gravelly, 3rd rate.

Timber, none.

Undergrowth, dense catclaw, scrub mesquite, ironwood, tesota, and cacti.

Good grass.

40.00

N. 89° 58' E., on a random line, bet. secs. 1 and 12.

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

71.05

Fall 12 lks. N. of the reestablished cor. of secs. 1 and 12, on the E. bdy. of the Tp., hereinbefore described.

Thence,

N. 89° 56' W., on a true line, bet. secs. 1 and 12.

Over nearly level land, thru. dense undergrowth.

Ascend very gradually over NE. slope.

25.15

Telephone line, brs. N. 25° E. and S. 25° W.

27.85

Wash, 20 lks. wide, 6 ft. deep, course N. 30° E.

31.05

Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground to bed rock, supported by a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$	S 11
$\frac{1}{4}$	S 12
1921	

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

36.05

Continue very gradual ascent over NE. slope.

62.65

Dim road, brs. N. and S.

Shallow wash, 20 lks. wide, course NE.

71.05

Ascend very gradually over E. slope, to

The cor. of secs. 12, 11 and 12.

Land, nearly level.

Soil, gravelly, 3rd rate.

Timber, none.

Undergrowth, dense catclaw and scrub mesquite.

Good grass.

12.00

North, on sectional guide meridian, bet. secs. 1 and 2.

Over nearly level land, thru. dense undergrowth, along E. slope, with slight change in elevation.

40.00

Wash, 20 lks. wide, course E.

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 1
1921		

and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor. Fence brs. N. and S. at about 6 chs. W. of this cor.

94.80

Continue over nearly level land. Descend very gradually over NE. slope, to closing cor.

95.08

From this point, house brs. N. 35 $\frac{1}{2}$ ° W.

Intersect the Third Standard Parallel South, 7.90 chs. west of the standard $\frac{1}{4}$ sec. cor. of sec. 36, T. 15 S., R. 30 E., reestablished by W. B. Kimmel, U.S.S. in 1914,

Chains.

which is an iron post, 1 in. in diam., projecting 10 ins. above ground, firmly set, properly marked on brass cap, and witnessed by a mound of stone, N. of post.

No bearing trees.

At point of intersection,

Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in the ground, for closing cor. of secs. 1 and 2, marked on brass cap,

T15S R30E

S36

S 2 | S 1

T16S R30E

C C

1921

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

Land, nearly level.

Soil, gravelly, 3rd rate.

Timber, none.

Undergrowth, catchlaw, scrub mesquite, ironwood, tesota and cacti.

From the cor. of secs. 2, 3, 34 and 35, on the S. bdy. of the Tp., hereinbefore described,

N. 9° 1' W., bet. secs. 34 and 35.

Over mountainous land, thru. dense timber and undergrowth.

Descend 10 ft. over N. slope.

0.60 Wash, 10 lks. wide, course NE.

Ascend 22 ft., over SE. slope.

5.00 Point of spur, slopes NE.

Descend 51 ft., over N. slope.

13.90 Center of wash, 2 chs. wide, course N. 70° E.

Ascend 34 ft., over SE. slope.

16.00 Point of spur, slopes NE. Leave mountainous, and enter rolling land.

Descend 128 ft., over N. slope, to

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

$\frac{1}{4}$

S34 | S35

1921

from which,

A juniper, 6 ins. in diam., brs. S. 46° E., 31 lks. dist., marked $\frac{1}{4}$ S 35 BT.

An oak, 10 ins. in diam., brs. N. 23° W., 124 lks. dist., marked $\frac{1}{4}$ S 34 BT.

Leave dense, and enter scattering timber and undergrowth. continue over rolling land.

Descend 17 ft., over N. slope.

42.83 Wash, 10 lks. wide, course NE. near head.

Ascend 50 ft., over SE. slope.

48.47 Spur, slopes NE.

Descend 152 ft., over N. slope.

54.70 Wire fence, brs. NE and SW. Enter field.

58.00 Telephone line, brs. NW and SE.

60.00 Wire fence brs. E. and W. Leave field.

60.50 Small private cemetery on line.

62.32 G.R. Hall's house brs. W. about 2.50 chs. dist.

63.86 Road brs. E. and W.

66.78 Center of Whitetail Wash, about 1 ch. wide, course E.

Ascend 45 ft., over SW. slope to sec. cor.

67.08 Telephone line, brs. E. and W.

71.00 wire fence, brs. E. and W.

80.00 Low spur, slopes SE. Set an iron post, 3 ft. long, 2 ins.

38 Subdivision lines of Township 16 South, Range 30 East.

Chains.

in diam., 20 ins. in the ground to bed rock, supported by a mound of stone, for cor. of secs, 26, 27, 34 and 35, marked on brass cap,

T16S | R30E
S27 | S26
S34 | S35
1921

from which,

An oak, 24 ins. in diam., brs. N. 61 1/2° E., 310 lks. dist., marked T16S R30E S26 BT.

An oak, 12 ins. in diam., brs. S. 69° E., 332 lks. dist., marked T16S R30E S35 BT.

No other trees within limits. Raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.

Land, S. 16 chs., mountainous; remainder, rolling.

Soil, gravelly, 3rd rate.

Timber, oak, cedar, juniper, and pine, dense in S. 1/2; scattering in N. 1/2.

Undergrowth, scrub oak, catchlaw, scrub mesquite and cacti; dense in S. 1/2; scattering in N. 1/2.

Good grass.

East, on a random line, bet. secs. 26 and 35.

40.00 Set temp. 1/4 sec. cor.

80.00 Intersect N. and S. line, 4 lks. N. of the cor. of secs. 25, 26, 35 and 36.

Thence,

N. 89° 58' W., on a true line, bet. secs. 26 and 35.

Over gently rolling land, thru. scattering undergrowth.

Ascend 55 ft., over S. slope, to

13.60 Draw, course S.

Ascend 70 ft., over E. slope.

18.50 Spur, slopes SE.

Descend 37 ft., over SW. slope.

24.30 Barbwire fence, brs. N. and S.

Ascend 30 ft., over SE. and S. slopes, to

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the ground to bed rock, supported by a mound of stone, for 1/4 sec. cor., marked on brass cap,

1/4 S 26
S 35
1921

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

54.82 Enter very scattering timber. Desc. 20 ft., over SW. slope. Wash, 20 lks. wide, course SE. Asc. 85 ft., over E. slope.

64.14 Spur, slopes SE., course SE.

Descend 85 ft. over SW. slope.

75.60 Wash, 50 lks. wide, course SE.

Ascend 23 ft., over NE. slope.

80.00 The cor. of secs. 26, 27, 34 and 35, on top of spur, sloping SE.

Land, rolling.

Soil, gravelly and rocky, 3rd rate.

Timber, very scattering oak, cedar, juniper and pine in W. half; no timber in E. half.

Undergrowth, scattering catchlaw, scrub oak and cacti.

Fair grass.

N. 9° 1' W., bet. secs. 26 and 27.

Over rolling land, thru. scattering timber and undergrowth.

ECCO 3592

Subdivision lines of Township 16 South Range 30 East 30

Chains.	
4.00	Descend 12 ft., over NE. slope. Wash, 40 lks. wide, course SE. Leave rolling, and enter mountainous land.
38.75	Ascend 562 ft. over SE. slope. Spur, slopes SW.
40.00	Descend 18 ft., over NW. slope, to 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,
	$\begin{array}{c} \frac{1}{4} \\ \text{S27} \mid \text{S26} \\ \text{1921} \end{array}$
	<p>from which,</p> <p>An oak, 10 ins. in diam., brs. S. 19° E., 51 lks. dist., marked $\frac{1}{4}$ S 26 BT.</p> <p>A juniper, 10 ins. in diam., brs. N. 43° W., 34 lks. dist., marked $\frac{1}{4}$ S 27 BT.</p>
42.00	Descend 20 ft., over NW. slope. Draw, course W. near head.
52.10	Ascend 70 ft., over S. slope. Wire fence, brs. E and W.
53.62	Ridge, brs. E and W. Leave scattering, and enter dense timber and undergrowth.
80.00	Descend 410 ft., over NW. slope, to Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 22, 23, 26 and 27, marked on brass cap,
	$\begin{array}{c} \text{T16S} \mid \text{R30E} \\ \text{S22} \mid \text{S23} \\ \text{S27} \mid \text{S26} \\ \text{1921} \end{array}$
	<p>from which,</p> <p>A white oak, 12 ins. in diam., brs. N. 13$\frac{1}{2}$° E., 89 lks. dist., marked T16S R30E S23 BT.</p> <p>A red oak, 12 ins. in diam., brs. S. 86° E., 111 lks. dist., marked T16S R30E S26 BT.</p> <p>A red oak, 10 ins. in diam., brs. S. 23$\frac{1}{2}$° W., 32 lks. dist., marked T16S R30E S27 BT.</p> <p>A white oak, 14 ins. in diam., brs. N. 47° W., 109 lks. dist., marked T16S R30E S22 BT.</p>
	<p>Land, mountainous. Soil, rocky, 4th rate. Timber, oak, pine, and juniper, scattering in S. 53$\frac{1}{2}$ chs., dense in remainder. Undergrowth, catclaw, tesota, ocotillo and other cacti, scattering in S. 53$\frac{1}{2}$ chs., dense in remainder. Fair grass.</p>
40.00	S. 89° 58' E., on a random line, bet. secs. 23 and 26. Set temp. $\frac{1}{4}$ sec. cor.
79.92	Intersect N. and S. line, 12 lks. S. of the cor. of secs. 23, 24, 25 and 26. Thence,
5.40	S. 89° 57' W., on a true line, bet. secs. 23 and 26. Over mountainous land, thru. dense timber and undergrowth. Descend 140 ft., over NW. slope. Gulch, course N. near head.
8.05	Ascend 47 ft., over E. slope. Spur, slopes N.
11.90	Descend 36 ft., over NW. slope. Gulch, course N.
17.20	Ascend 148 ft., over E. slope. Spur, slopes N.
25.05	Descend 37 ft., over NW. slope. Ascend 167 ft., over NE. slope.

40 Subdivision lines of Township 16 South, Range 50 East.

Chains.

- 34.90 Spur, slopes NW.
Descend 140 ft., over W. slope, to
- 39.96 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,
- $\frac{1}{4}$ S 23
S 26
1921
- from which,
An oak, 8 ins. in diam., brs. N. $37\frac{1}{2}^{\circ}$ W., 24 lks. dist., marked $\frac{1}{4}$ S 23 BT.
An oak, 4 ins. in diam., brs. S. $33\frac{1}{4}^{\circ}$ E., 24 lks. dist., marked BT.
- Descend 70 ft., over W. slope.
- 43.30 Gulch, course N.
Ascend 145 ft., over NE. slope.
- 59.60 Spur, slopes N.
Descend 140 ft., over NW. slope, to
- 79.92 The cor. of secs. 22, 23, 26 and 27.
Land, mountainous.
Soil, rocky, 3rd and 4th rate.
Timber, dense pine, cedar, juniper and oak.
Undergrowth, dense greasewood, ironwood, catclaw, tesota, ocotillo and other cacti.
Good grass.
-
- N. 0° 1' W., bet. secs. 22 and 23.
Over mountainous land, thru. dense timber and undergrowth.
Descend 5 ft., over NW. slope.
- 0.50 Wash, 20 lks. wide, course NE.
Ascend 28 ft., over SE. slope.
- 4.00 Spur, slopes NE.
Descend 110 ft. over NW. slope.
- 6.40 Telephone line, brs. N. 30° E. and S. 30° W.
- 15.78 Wash; 20 lks. wide, course NW. near head.
Ascend 17 ft., over SW. slope.
- 16.77 Point of short spur, slopes NW.
Descend 100 ft., over NW. slope.
- 30.21 Wash, 30 lks. wide in gulch, course NE.
Ascend 70 ft., over SE. slope.
- 39.67 Spur, slopes NE.
Descend slightly over NW. slope, to
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., on bed rock, supported by a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,
- $\frac{1}{4}$
S 22 | S 23
1921
- from which,
A juniper, 10 ins. in diam., brs. N. $61\frac{1}{2}^{\circ}$ E., 122 lks. dist., marked $\frac{1}{4}$ S 23 BT.
A juniper, 6 ins. in diam., brs. N. 65° W., 52 lks. dist., marked $\frac{1}{4}$ S 22 BT.
- Descend 110 ft., over NW. slope.
- 49.28 Dry bed of Oak Creek, 1 ch. wide, course NE. Leave mountainous land and dense timber, and enter rolling land and scattering timber.
Ascend 29 ft., over SE. slope.
- 54.06 Point of spur slopes E.
Descend 45 ft., over NE. slope.
- 63.54 Center of wash, 1 ch. wide, course E.
Ascend 37 ft., over S. slope.
- 74.75 Low ridge, brs. E. and W.
Descend 46 ft., over N. slope, to

Subdivision lines of Township 16 South, Range 30 East. 41

Chains.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in the ground, for cor. of secs. 14, 15, 22 and 23, marked on brass cap,

T16S | R30E
S15 | S14
S22 | S23
1921

from which,
An oak, 14 ins. in diam., brs. N. 81° E., 84 lks. dist., marked T16S R30E S14 BT.
An oak, 24 ins. in diam., brs. S. 62½° E., 40 lks. dist., marked T16S R30E S23 BT.
An oak, 30 ins. in diam., brs. S. 60½° W., 120 lks. dist., marked T16S R30E S22 BT.
An oak, 12 ins. in diam., brs. N. 42½° W., 63 lks. dist., marked T16S R30E S15 BT.

Land, S. 49 chs., mountainous; N. 31 chs. rolling.
Soil, rocky, limestone formation, 3rd and 4th rate.
Timber, oak, pine, cedar and juniper, dense in S. 49 chs.; scattering in N. 31 chs.
Undergrowth, dense catclaw, tesota, ocotillo and other cacti.
Fair grass.

40.00 N. 89° 57' E., on a random line, bet. secs. 14 and 23. Set temp. ¼ sec. cor.
79.90 Intersect N. and S. line, 7 lks. N. of the cor. of secs. 13, 14, 23 and 24.

Thence,
West, on true line, bet. secs. 14 and 23.
Over gently rolling land, thru. dense undergrowth.
Descend 50 ft., over NW. slope.

17.90 Wash, course NE.
Ascend 62 ft., over NE. slope, to
39.95 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap,

1/4 S 14
S 23
1921

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

Ascend 97 ft., over NE. and N. slopes.
40.70 Wire fence, brs. N. and S.
41.10 Telephone line, brs. NE. and SW.
59.40 Descend 36 ft., over N. slope. Enter scattering timber.
69.90 Ascend 36 ft., over N. slope, to
79.90 The cor. of secs. 14, 15, 22 and 23.

Land, gently rolling.
Soil, gravelly, 3rd rate.
Timber, scattering oak in W. 20½ chs. None elsewhere.
Undergrowth; dense scrub mesquite, greasewood, tesota, ocotillo and other cacti.
Fair grass.

N. 0° 1' W., bet. secs. 14 and 15.
Over gently rolling land, thru. scattering timber and dense undergrowth.
Descend slightly over N. slope.
1.50 Wash, 20 lks. wide, course E. from SW. Leave gently rolling, and enter mountainous land.
Ascend 120 ft., over S. slope.
8.25 Ridge, brs. E. and W. near E. end.

42 Subdivision lines of Township 16 South, Range 30 East.

Chains.

21.55 Descend 140 ft., over N. slope.
South fork of Keating Creek, 50 lks. wide, course E., containing a small stream of clear water.

28.40 Ascend 97 ft., over S. slope.
Spur, slopes E.

35.72 Descend 58 ft., over N. slope.
Wash, 10 lks. wide, course E.

40.00 Ascend 91 ft., over broken S. slope, to
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,

S15	S14
-----	-----

1921

from which,

A stone, 4x2 $\frac{1}{2}$ ft. face, marked cross (x) 30 brs. S. 73° 40' E., 32 lks. dist.

An oak, 12 ins. in diam., brs. S. 75° W., 175 lks. dist., marked $\frac{1}{4}$ S 15 BT.

43.00 Ascend 100 ft., over steep broken S. slope, to
Top of cliff, 50 ft. high, brs. E. and W. facing S.

49.70 Ascend 180 ft., over S. slope.
Ridge, brs. E. and W. near E. end.

74.92 Descend 415 ft. over N. slope.
Wash, 30 lks. wide, course NE.

80.00 Ascend 20 ft., over SE. slope, to
Set an iron post, 3 ft. long, 2 ins. in diam., 20 ins. in the ground to bed rock, supported by a mound of stone, for cor. of secs. 10, 11, 14 and 15, marked on brass cap,

T16S	R30E
------	------

S10	S11
-----	-----

S15	S14
-----	-----

1921

from which,

An oak, 8 ins. in diam., brs. N. 84° E., 435 lks. dist., marked T16S R30E S11 BT.

An oak, 10 ins. in diam., brs. S. 62 $\frac{1}{2}$ ° E., 247 lks. dist., marked T16S R30E S14 BT.

An oak, 4 ins. in diam., brs. S. 54 $\frac{1}{2}$ ° W., 180 lks. dist., marked BT.

A cedar, 4 ins. in diam., brs. N. 78 $\frac{1}{2}$ ° W., 41 lks. dist., marked BT.

From this cor., Nolan's windmill, brs. N. 61 $\frac{1}{2}$ ° E.

Land, S. 1 $\frac{1}{2}$ chs., rolling; remainder, mountainous.

Soil, rocky, 4th rate,

Timber, scattering oak and cedar.

Undergrowth, dense catclaw, ironwood, scrub oak, tesota and cacti.

Fair grass.

40.00 East, on a random line, bet. secs. 11 and 14.

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

Intersect N. and S. line, 12 lks. N. of the true point for cor. of secs. 11, 12, 13 and 14, in Keating Creek, witnessed 0.10 chs. S.

From true cor. point,

N. 89° 55' W., on a true line, bet. secs. 11 and 14.

Over nearly level land, thru. dense undergrowth, across dry bed of Keating Creek, course N. 85° E.

0.50 N. edge of creek bed, brs. N. 85° E. and S. 85° W. Leave Keating Creek.

Ascend very gradually over SE. slope.

2.80 Road brs. N. to Nolan's ranch, and S.

Subdivision lines of Township 16 South, Range 30 East, 43

Chains.	
7.00	Telephone line, brs. NW and SE.
30.00	Dry bed of Keating Creek, 50 lks. wide, course S. 40° E. from W.
	Ascend slightly in creek bed, to
32.80	Leave Keating Creek, course E. from NW.
	Ascend very gradually, over NE. slope, to
40.00	Set an iron post, 3 ft. long, 1 in. in diam.; 18 ins. in the ground to bed rock, supported by a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,
	$\frac{1}{4}$ S 11
	S 14
	1921
	from which,
	A walnut, 18 ins. in diam., brs. N. 56 $\frac{1}{2}$ ° E.,
	514 lks. dist., marked $\frac{1}{4}$ S 11 BT.
	A hackberry, 4 ins. in diam., brs. S. 39 $\frac{1}{2}$ ° W.,
	433 lks. dist., marked BT.
	From this cor., cor. No. 1 of H. E. S. No. 282, which is a granite stone, 6x10x12 ins. above ground, firmly set, marked 1-HES 282 on W. face, brs. N. 23 $\frac{1}{2}$ ° W., 8.10 chs. dist.,
	A stone, 6x12x12 ins. above ground, marked W. H. 2
	on N. face, brs. N. 20° 11' W., 10.95 chs. dist.
	The S. end of Nolan's house brs. N. 61° W.
	Continue over nearly level land, thru. dense undergrowth.
	Ascend very gradually over NE. slope.
42.07	Wire fence, brs. N. and S.
44.17	Wire fence, brs. NW and SE.
47.00	Leave nearly level, and enter rolling land.
	Ascend 105 ft., over NE. slope.
67.00	Enter dense timber, brs. N. and S.
76.67	Wash, 30 lks. wide, course NE. Leave rolling land and dense timber, and enter mountainous land and scattering timber.
	Ascend 71 ft., over SE. slope, to
80.00	The cor. of secs. 10, 11, 14 and 15.
	Land, nearly level in E. 47 chs.; mountainous in W. 3 $\frac{1}{2}$ chs; remainder, rolling.
	Soil, rocky, 3rd and 4th rate.
	Timber, oak, cedar, and walnut in W. 13 chs.
	No timber in E. 67 chs.
	Undergrowth, dense catclaw, scrub mesquite, tesota and cacti.
	Fair grass.
	N. 0° 1' W., bet. secs. 10 and 11.
	Over mountainous land, thru. scattering timber and dense undergrowth.
	Ascend 60 ft., over SE. slope.
4.33	SW. cor. of Nolan's house, brs. N. 69° 35' E.
9.93	SW. cor. of Nolan's house brs. N. 85° 25' E.
10.00	Point of spur, slopes E.
	Descend 183 ft., over NE. slope.
26.05	Wire fence, brs. N. 50° W. Leave dense, and enter scattering undergrowth.
30.71	Old road, brs. E. and W.
33.51	Wire fence, brs. N. 50° W. for 30 lks. Thence S. 20° W.
34.00	Keating Creek, 50 lks. wide, course SE., containing a small stream of clear water. Leave scattering, and enter dense undergrowth.
	Ascend 102 ft. over S. slope, to
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground to bed rock, supported by a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,

44 Subdivision lines of Township 16 South, Range 30 East.

Chains.

S10 | S11
1921

from which,

An oak, 12 ins. in diam., brs. S. 2 1/2° E., 78 lks. dist., marked 1/4 S 11 BT.

An oak, 6 ins. in diam., brs. N. 34 1/2° W., 246 lks. dist., marked 1/4 S 10 BT.

Ascend 382 ft., over S. slope.

52.91 Spur, slopes SW.

Descend 90 ft., over NW. slope.

57.91 Gulch, course W. near head.

Ascend 516 ft., over S. slope.

75.00 Ridge, brs. NE and W.

Descend 110 ft., over NW. slope to sec. cor.

78.96 Trail, brs. NE and SW.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 10 ins. in the ground to bed rock, supported by a mound of stone, for cor. of secs. 2, 3, 10 and 11, marked on brass cap,

T16S | R30E
S 3 | S 2
S10 | S11
1921

from which,

An outcrop of rock in place, marked cross (x) 30 brs. N. 43° E., 4 lks. dist.

A pine, 4 ins. in diam., brs. S. 40 1/2° E., 43 lks. dist., marked BT.

A pine, 12 ins. in diam., brs. S. 18° W., 58 lks. dist., marked T16S R30E S10 BT.

A pine, 8 ins. in diam., brs. N. 11 1/2° W., 24 lks. dist., marked T16S R30E S3 BT.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, scattering cedar, pine, oak and juniper.

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

Fair grass.

40.00 S. 89° 55' E., on a random line, bet. secs. 2 and 11.

80.08 Set temp. 1/4 sec. cor.

Intersect N. and S. line, 16 lks. S. of the cor. of secs. 1, 2, 11 and 12.

Thence,

S. 89° 58' W., on a true line, bet. secs. 2 and 11.

Over gently rolling land, thru. dense undergrowth.

Ascend 97 ft., over E. slope.

3.88 Wire fence, brs. N. and S.

19.50 Leave gently rolling, and enter mountainous land.

Ascend 312 ft., over E. slope, to

40.04 Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the ground to bed rock, supported by a mound of stone for 1/4 sec. cor., marked on brass cap,

1/4 S 2
S 11
1921.

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

Ascend 685 ft., over NE. slope.

62.13 Ridge, brs. NW. and SE.

Subdivision lines of Township 16 South, Range 30 East. 45

Chains.

68.13 Descend 33 ft., over SW. slope.
 Ascend 46 ft., over SE. slope.
 75.48 Same ridge, brs. NE. and SW. Enter scattering timber.
 Descend 116 ft., over NW. slope to sec. cor.
 78.76 Trail, brs. NE. and SW.
 80.08 The cor. of secs. 2, 3, 10 and 11.
 Land, E. 19 $\frac{1}{2}$ chs., gently rolling; remainder, mountainous.
 Soil, rocky, 4th rate.
 Timber, scattering oak, cedar, juniper, and pine in W.
 4 $\frac{1}{2}$ chs. None elsewhere.
 Undergrowth, dense scrub oak, catclaw, tesota and cacti.
 Fair grass.

N. 0° 1' W., on true line, bet. secs. 2 and 3.
 Over mountainous land, thru. scattering timber and dense
 undergrowth.
 20.72 Descend 575 ft., over NW. slope.
 Wash, 15 lks. wide, in gulch, course NE. Leave scattering
 and enter dense timber.
 Ascend 40 ft., over SE. slope.
 23.68 Point of spur, slopes E.
 Descend 270 ft., over N. slope, to
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
 the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$
 S 3 | S 2
 1921

from which,
 An oak, 10 ins. in diam., brs. S. 73 $\frac{1}{2}$ ° E., 94 lks.
 dist., marked $\frac{1}{4}$ S 2 BT.
 An oak, 12 ins. in diam., brs. S. 40 $\frac{1}{2}$ ° W., 83 lks.
 dist., marked $\frac{1}{4}$ S 3 BT.

44.50 Descend 14 ft., over N. slope.
 Wash, 60 lks. wide in bottom of Brushy canyon, course E.
 Ascend 405 ft., over S. slope.
 60.80 Point of spur, slopes SW.
 Ascend 10 ft., over W. slope, to
 66.80 Gulch; course SW. near head.
 Ascend 410 ft., over S. slope.
 80.87 Ridge, brs. E. and W.
 Descend 540 ft., over steep broken N. slope to closing cor.
 88.86 Top of bluff, 60 ft. high, brs. E. and W. facing N.
 94.96 Intersect the Third Standard Parallel South, 7.90 chs.
 West of the Standard $\frac{1}{4}$ sec. cor. of sec. 35, T. 15 S.,
 R. 30 E. reestablished by W. B. Kimmel, U.S.S. in 1914,
 which is an iron post, 1 in. in diam., projecting 24
 ins. above ground, firmly set in ground and mound of
 stone, properly marked on brass cap, and witnessed
 by a mound of stone, NW. of cor., and one properly
 marked bearing tree, a cedar, N. 85° W., 49 lks. dist.
 At point of intersection,
 Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in
 the ground, for closing cor. of secs. 2 and 3, marked
 on brass cap,

T15S R30E
 S35
 S 3 | S 2
 T16S R30E
 C C
 1921

from which,
 An oak, 10 ins. in diam., brs. S. 15° E., 47 lks.
 dist., marked T16S R30E S2 CC BT,

46 Subdivision lines of Township 16 South, Range 30 East.

Chains.

	<p>A cedar, 10 ins. in diam., brs. S. 18° W., 57 lks. dist., marked T16S R30E S3 CC BT.</p> <p>Land, mountainous.</p> <p>Soil, rocky, 4th rate; porphyry formation.</p> <p>Timber, oak, juniper, cedar and pine, scattering in S. 21 chs.; dense in remainder.</p> <p>Undergrowth, dense scrub oak, catclaw, tesota and cacti.</p> <p>Fair grass.</p>
	<p>-----</p> <p>From the cor. of secs., 3, 4, 33 and 34, on the S. side of the Tp., hereinbefore described, N. 0° 1' W., bet. secs. 33 and 34.</p> <p>Over mountainous land, thru. dense timber and undergrowth.</p> <p>Ascend 60 ft., over SE. slope.</p>
6.00	Point of spur, slopes NE.
10.08	Descend 130 ft., over N. slope.
	Gulch, course NE. near head.
13.63	Ascend 45 ft., over SE. slope.
	Point of spur, slopes NE.
19.00	Descend 70 ft., over NE. slope.
23.94	Ascend 30 ft., over SE. slope.
	Spur ridge, brs. NE. and SW., sloping NE.
25.04	Descend 232 ft. over NW. and W. slopes.
26.12	A mining claim cor., marked E.C. - Empi brs. West 0.45 chs. dist.
33.61	A mining claim cor. post, marked 31-GL on E. face, and N.L. on S. face brs. West 0.05 chs. dist.
40.00	Spur, slopes NW.
	Descend 213 ft., over N. slope, to
	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,
	$\frac{1}{4}$ S33 S34 1921
	<p>from which,</p> <p>A pine, 4 ins. in diam., brs. S. 35° E., 82 lks. dist., marked B T.</p> <p>An oak, 6 ins. in diam., brs. S. 64° W., 62 lks. dist., marked $\frac{1}{4}$ S 33 BT.</p> <p>Bearings from this $\frac{1}{4}$ sec. cor., as follows:</p> <p>U.S. L.M. No. 2099 brs. N. 41° E., 11.18 chs. dist.</p> <p>This mineral monument is a wood post, 3 ins. square, marks illegible, firmly set in a mound of stone, 8 ft. base, 4 ft. high, NW. of which 50 lks. dist. is an oak stump, 4 ft. high.</p> <p>Cor. No. 1 of New Year patented lode mining claim, Mineral Survey No. 3125, California Mining Dist. brs. N. 11$\frac{1}{2}$° W.</p> <p>A post, marked UR on top and WWH on N. face, brs N. 6° 43' W.</p> <p>Bearings from U.S. L.M. No. 2099, as follows:</p> <p>Cor. No. 1 of Cochise White Marble patented placer mining claim Mineral Sur. No. 2591 brs. N. 32° 33' W.</p> <p>Cor. No. 4 of New Year patented lode mining claim, Mineral Survey No. 3125 brs. N. 54° 55' W.</p> <p>NW. cor. of Mine Superintendent's house brs. S. 68° W.</p> <p>Hilltop store brs. S. 83$\frac{1}{2}$° W.</p> <p>Geo. Hall's house brs. N. 80$\frac{1}{2}$° E.</p> <p>The cor. of secs. 26, 27, 34 and 35 brs. N. 68° E.</p>
48.77	Descend 290 ft., over N. slope.
	Gully, course NW. near head.
56.06	Ascend 20 ft., over SW. slope.
	Point of spur, slopes W.
	Descend 140 ft., over NW. slope.

Channs.

- 64.88 Telephone line, brs. NE. and SW.
 67.75 Wash, 20 lks. wide, course NE.
 Ascend 8 ft., over SE. slope.
 71.00 Descend 62 ft., over NE. slope.
 76.00 House brs. East about 3 chs. dist.
 77.60 Road brs. E. and W.
 House brs. West about 1.50 chs. dist.
 78.60 Whitetail Creek, with small stream of water, course S. 80°
 E.
 Ascend 10 ft. over SW. slope, to
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 12 ins. in
 the ground, to bed rock, supported by a mound of stone
 for cor. of secs. 27, 28, 33 and 34, marked on brass
 cap,

T16S	R30E
S28	S27
S33	S34
1921	

from which,

- A mesquite, 4 ins. in diam., brs. N. 57½° E., 27
 lks. dist., marked B T.
 An oak, 10 ins. in diam., brs. S. 63½° E., 34
 lks. dist., marked T16S R30E S34 BT.
 A sycamore, 14 ins. in diam., brs. S. 27° W., 42
 lks. dist., marked T16S R30E S33 BT.
 An oak, 12 ins. in diam., brs. N. 49° W., 18
 lks. dist., marked T16S R30E S28 BT.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, dense pine, juniper, oak, cedar and sycamore.

Undergrowth, dense ironwood, catclaw, tesota, ocotillo,
 and other cacti.

Good grass.

- 40.00 East, on a random line, bet. secs. 27 and 34.
 Set temp. ¼ sec. cor.
 80.10 Intersect N. and S. line, 9 lks. N. of the cor. of secs.
 26, 27, 34 and 35.
 Thence,
 N. 89° 56' W., on a true line, bet. secs. 27 and 34.
 Over rolling land, thru. scattering timber and under-
 growth.
 9.00 Descend 20 ft., over SW. slope.
 Wash, 1 ch. wide, course SE. Telephone line brs. NW. and SE.
 Ascend 31 ft., over E. slope.
 12.00 Spur, slopes SE.
 Descend 11 ft. over W. slope.
 12.94 Wash, 10 lks. wide, course S. Leave rolling, and enter
 mountainous land.
 Ascend 155 ft., over E. slope.
 23.74 Spur, slopes SE.
 Descend 97 ft., over SW. slope.
 23.81 From this point, M. Colwyn's house brs. S. 51½° W.
 Another house brs. S. 76° W.
 31.15 Wash, course S.
 Ascend 20 ft., over E. slope.
 33.88 Point of spur, slopes SE.
 Descend slightly over S. slope, to
 40.05 Set an iron post, 3 ft. long, 1 in. in diam., 11 ins. in
 the ground to bed rock, supported by a mound of stone
 for ¼ sec. cor., marked on brass cap,

1	S 27
	S 34
1921	

from which,

48 Subdivision lines of Township 16 South, Range 30 East.

Chains.

An oak, 12 ins. in diam., brs. N. 39° E., 98 lks.
dist., marked $\frac{1}{4}$ S 27 BT.
An oak, 8 ins. in diam., brs. S. 58° W., 29 lks.
dist., marked $\frac{1}{4}$ S 34 BT.
Ascend 35 ft., over S. slope.
47.50 Descend 25 ft. over SW. slope.
52.76 Wash, 40 lks. wide, course S. Leave scattering, and enter
dense timber and undergrowth.
Ascend 120 ft., over SE. slope.
54.37 From this point, cor. No. 8 of H. E. S. No. 281, which is a
porphyry stone, 10x12x6 ins. above ground, firmly set,
brs. South 0.06 chs. dist.
64.81 House brs. S. 23° 20' W.
66.66 Point of spur, slopes S.
Descend 65 ft., over SW. slope to sec. cor.
67.06 House brs. S. 32° E.
80.10 The cor. of secs. 27, 28, 33 and 34.
Land, E. 13 chs. rolling; W. 67 chs. mountainous.
Soil, rocky, 3rd and 4th rate.
Timber, oak, pine, juniper and cedar, scattering in E.
53 chs.; dense elsewhere.
Undergrowth, scrub oak, greasewood, tesota and cacti,
scattering in E. 53 chs.; dense elsewhere.
Fair grass.

N. 0° 1' W., bet. secs. 27 and 28.
Over mountainous land, thru. dense timber and undergrowth.
Ascend 803 ft., over SW. slope, to
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 24 ins. in
the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$
 S28 | S27
 |
 1921

from which,
An oak, 14 ins. in diam., brs. N. 64 $\frac{1}{2}$ ° E., 95 lks.
dist., marked $\frac{1}{4}$ S 27 BT.
A pine, 10 ins. in diam., brs. S. 26 $\frac{1}{2}$ ° W., 59 lks.
dist., marked $\frac{1}{4}$ S 28 BT.
Ascend 330 ft., over SW. slope, to
54.13 Spur, slopes SE.
Ascend 90 ft., over E. and SE. slopes, to
68.84 Point of short spur, slopes E.
Descend 13 ft., over NE. slope.
73.84 Wash, 10 lks. wide, course SE., containing a small stream
of water.
Ascend 102 ft., over SW. slope, to
80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 6 ins. in
the ground to bedrock, supported by a mound of stone,
for cor. of secs. 21, 22, 27 and 28, marked on brass
cap,

T16S | R30E
 S21 | S22
 S28 | S27
 1921

from which,
An oak, 12 ins. in diam., brs. N. 29° E., 30 lks.
dist., marked T16S R30E S22 BT.
A juniper, 4 ins. in diam., brs. S. 85° E., 112 lks.
dist., marked BT.
An oak, 4 ins. in diam., brs. S. 22° W., 64 lks.
dist., marked BT.
An oak, 12 ins. in diam., brs. N. 69 $\frac{1}{2}$ ° W., 35 lks.
dist., marked T16S R30E S21 BT.

Subdivision lines of Township 16 South, Range 30 East. 49

Chains.

Land, mountainous.
Soil, rocky, 4th rate.
Timber, dense pine, oak and juniper.
Undergrowth, dense scrub oak, ironwood, tesota and cacti.
Fair grass.

- 40.00 S. 89° 56' E., on a random line, bet. secs. 22 and 27.
- 80.14 Set temp. $\frac{1}{4}$ sec. cor.
Intersect N. and S. line, 16 lks. S. of the cor. of secs. 22, 23, 26 and 27.
- Thence,
S. 89° 57' W., on a true line, bet. secs. 22 and 27.
Over mountainous land, thru. dense timber and undergrowth.
- 1.65 Descend slightly over NW. slope.
- 5.95 Wash, 20 lks. wide, course NE.
Ascend 63 ft., over E. slope.
- 6.75 Spur, slopes NE. Telephone line, brs. NE and SW.
Descend 10 ft., over NW. slope.
- 26.20 Wash, 20 lks. wide, course NE.
Ascend 290 ft., over E. slope.
- 29.95 Spur, slopes NE.
Descend 50 ft., over NW. slope.
- 40.07 Wash, course NE.
Ascend 245 ft., over E. slope, to
Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the ground, to bed rock, supported by a mound of stone for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$ S 22
S 27
1921.

from which,

- An oak, 14 ins. indian., brs. N. 47° E., 22 lks. dist., marked $\frac{1}{4}$ S 22 BT.
- An oak, 16 ins. in diam., brs. S. 60 $\frac{1}{2}$ ° E., 46 lks. dist., marked $\frac{1}{4}$ S 27 BT.
- 41.25 Ascend 20 ft., over E. slope.
Spur, slopes NE. from S.
Descend 103 ft., over NW. slope.
- 48.40 Gulch, course N.
Ascend 71 ft. over E. slope.
- 54.00 Point of spur, slopes NE.
Descend 76 ft., over NW. slope.
- 56.50 Gulch, course NE.
Ascend 680 ft., over NE. slope.
- 75.15 Ridge, brs. NW and SE.
Descend 57 ft., over SW. slope, to
- 80.14 The cor. of secs. 21, 22, 27 and 28.
Land, mountainous.
Soil, rocky, 4th rate.
Timber, dense oak, pine, juniper and cedar.
Undergrowth, dense scrub oak, manzanita, catclaw and cacti.
Fair grass.

- N. 0° 1' W., bet. secs. 21 and 22.
Over mountainous land, thru. dense timber and undergrowth.
Ascend 260 ft., over SW. slope.
- 13.49 Ridge, brs. NW. and SE.
Descend 125 ft., over NE. slope.
- 19.60 Dry bed of Oak Creek, course E., near head. Top of Maverick Peak, brs. W. about 20 chs. dist.
Ascend 57 ft., over SE. slope.
- 32.66 Spur ridge, brs. E. and W., sloping E.
Descend 163 ft., over NE. slope, to
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 4 ins. in the

50 Subdivision lines of Township 16 South, Range 30 West
chains.

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

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

1921

from which,

An oak, 12 ins. in diam., brs. S. 67° W., 100 lks.
dist., marked $\frac{1}{4}$ S 21 BT.

No other trees within limits; raise a mound of stone,
3 ft. base, 2 ft. high, W. of cor.

51.50 Descend 183 ft., over E. slope, to
Spur, slopes NE.

Descend 419 ft., over NW. slope.

61.00 Wash, 20 lks. wide, course NE.

Ascend 77 ft., over SE. slope.

77.02 Point of spur, slopes NE.

Descend 46 ft., over N. slope, to

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 20 ins. in
the ground to bed rock, supported by a mound of stone,
for cor. of secs. 15, 16, 21 and 22, marked on brass cap,

T16S | R30E
S16 | S15

S21 | S22

1921

from which,

An oak, 8 ins. in diam., brs. N. $47\frac{1}{2}^{\circ}$ E., 44 lks.
dist., marked T16S R30E S15 BT.

An oak, 4 ins. in diam., brs. S. $66\frac{3}{4}^{\circ}$ E., 14 lks.
dist., marked BT.

An oak, 6 ins. in diam., brs. S. 47° W., 22 lks.
dist., marked T16S R30E S21 BT.

An oak, 8 ins. in diam., brs. N. 46° W., 9 lks.
dist., marked T16S R30E S16 BT.

Land, mountainous.

Soil, rocky, 4th rate, porphyry formation.

Timber, dense oak, cedar, juniper and pine.

Undergrowth, dense scrub oak, ironwood, tesota, Spanish dagger and cacti.

Fair grass.

40.00 N. $89^{\circ} 57' E.$, on a random line, bet. secs. 15 and 22.
Set temp. $\frac{1}{4}$ sec. cor.

80.10 Intersect N. and S. line, 7 lks. N. of the cor. of secs. 14,
15, 22 and 23.

Thence,

West, on a true line, bet. secs. 15 and 22.

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

0.95 Descend slightly over N. slope.

Wash, 20 lks. wide, course NE. Leave rolling, and enter
mountainous land.

8.45 Ascend 205 ft., over SE. slope.

Point of short spur, slopes S.

17.36 Descend 75 ft., over SW. slope.

Wash, 20 lks. wide, course SE.

36.59 Ascend 390 ft., over NE. slope.

Spur, slopes SE. Leave scattering, and enter dense timber.

40.05 Descend 15 ft., over SW. slope, to

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

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

S 22

1921

Subdivision lines of Township 16 South, Range 30 East. 51

Chains.

from which,
 A juniper, 10 ins. in diam., brs. N. $61\frac{1}{2}^{\circ}$ E., 88
 lks. dist., marked $\frac{1}{4}$ S 15 BT.
 An oak, 10 ins. in diam., brs. S. 27° E., 95
 lks. dist., marked $\frac{1}{4}$ S 22 BT.
 Descend 10 ft., over SW. slope.
 42.45 Head of gulch, course S.
 Ascend 200 ft., over SE. slope.
 49.00 Point of spur, slopes S.
 Descend 120 ft., over SW. slope.
 58.78 Wash, 20 lks. wide, course SE.
 Ascend 355 ft., over NE. slope, to
 80.10 The cor. of secs. 15, 16, 21 and 22.
 Land, E. 1.00 ch. rolling; W. 79 chs. mountainous.
 Soil, rocky, 4th rate.
 Timber, oak, juniper and pine, scattering in E. $36\frac{1}{2}$ chs.;
 dense in remainder.
 Undergrowth, dense scrub oak, manzanita, ironwood, catclaw,
 tesota and cacti.
 Fair grass.

N. 0° 1' W., bet. secs. 15 and 16.
 Over mountainous land, thru. dense timber and undergrowth.
 Descend 66 ft., over N. slope.
 3.02 Wash, 10 lks. wide, in gulch, course E.
 Ascend 105 ft., over S. slope.
 10.40 Spur ridge, brs. E. and W., sloping E.
 Descend 120 ft., over N. slope.
 16.24 Head of gulch, course E.
 Ascend 68 ft., over SE. slope.
 19.35 Point of spur, slopes E.
 Descend 162 ft., over NE. slope.
 26.80 Head of gulch, course E.
 Ascend 96 ft., over S. slope.
 30.88 Spur ridge, brs. E. and W. sloping E.
 Descend 230 ft. over N. slope, to
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
 the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

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

1921

from which,
 An oak, 8 ins. in diam., brs. N. $58\frac{1}{2}^{\circ}$ E., 36 lks.
 dist., marked $\frac{1}{4}$ S 15 BT.
 An oak, 6 ins. in diam., brs. S. $75\frac{1}{2}^{\circ}$ W., 34 lks.
 dist., marked $\frac{1}{4}$ S 16 BT.
 Descend 100 ft., over N. slope.
 52.88 Dry bed of S. fork of Keating Creek, 20 lks. wide, in
 gulch, course E.
 Ascend 795 ft., over S. slope.
 76.20 High rocky ridge, brs. E. and W.
 Descend 170 ft., over N. slope, to
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 10 ins. in
 the ground to bed rock, supported by a mound of stone,
 for cor. of secs. 9, 10, 15 and 16, marked on brass cap,

T16S | R30E
 S 9 | S10
 S16 | S15

1921

from which,
 An oak, 10 ins. in diam., brs. N. 48° E., 49
 lks. dist., marked T16S R30E S10 BT.
 A juniper, 24 ins. in diam., brs. S. $64\frac{1}{2}^{\circ}$ E., 55
 lks. dist., marked T16S R30E S15 BT.

52 Subdivision lines of Township 16 South Range 30 East.

Chains.

An oak, 8 ins. in diam., brs. S. 81° W., 46 lks.
dist., marked T16S R30E S16 BT.

An oak, 6 ins. in diam., brs. N. 57° W., 75 lks.
dist., marked T16S R30E S9 BT.

Land, mountainous.
Soil, rocky, 4th rate.
Timber, dense oak, juniper and pine.
Undergrowth, dense scrub oak, catclaw, manzanita, cacti.
Fair grass.

East, on a random line, bet. secs. 10 and 15.
Make measurement by stadia as follows: Mean of three
rod readings, 13.20 ft.; vertical angle + 1° 40'.
The distance to rod is therefore = 26.44 chs.

26.44 Rod point. Continue line and measurement by chaining.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.06 Intersect N. and S. line, 3 lks. S. of the cor. of secs. 10,
11, 14 and 15.

Thence,
S. 89° 59' W. on a true line, bet. secs. 10 and 15.
Over mountainous land, thru. scattering timber and dense
undergrowth.

7.25 Ascend 128 ft., over SE. slope, to
Point of spur, slopes SE. Leave scattering, and enter
dense timber.

18.00 Ascend 115 ft., over S. slope, to
Wash, course SE.

40.03 Ascend 585 ft., over E. slope, to
Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in
the ground to bed rock, supported by a mound of stone,
for $\frac{1}{4}$ sec. cor.; marked on brass cap,

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

from which,
A pine, 12 ins. in diam., brs. N. 66° W., 102
lks. dist., marked $\frac{1}{4}$ S 10 BT.
A pine, 4 ins. in diam., brs. S. 55° W., 74
lks. dist., marked BT.

44.50 Ascend 148 ft., over E. slope, to
Spur, slopes NE. Wire fence, brs. NE and SW.

53.62 Ascend 197 ft., over steep N. slope, to
Thence over precipitous N. slope, chaining impracticable.
Measurement to sec. cor. by stadia, as hereinbefore de-
scribed.

80.06 Descend 51 ft., to
The cor. of secs. 9, 10, 15 and 16.
Land; mountainous.
Soil, rocky, 4th rate.
Timber, oak, juniper, pine and walnut, scattering in E. 7 chs.;
dense elsewhere.
Undergrowth, dense scrub oak, manzanita, ironwood, tesota
and cacti.
Fair grass.

N. 0° 1' W., bet. secs. 9 and 10.
Over mountainous land, thru. dense timber and undergrowth.
The beginning of this sec. line passes over a deep can-
yon, with precipitous walls, which render chaining
impracticable; therefore, triangulate as described as
follows, and as shown on the diagram hereon:

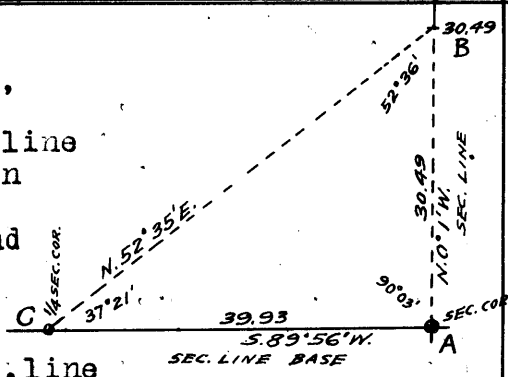
Subdivision lines of Township 16 South, Range 30 East, 53

Chains.

From cor. of secs. 9, 10, 15 and 16, indicated on diagram at "A" line in a flag ahead on sec. line on top of ridge beyond canyon at point "B."

From the $\frac{1}{4}$ sec. cor. of secs. 9 and 16, the bearing to flag "B" is N. 52° 35' E.

The Base (A-C) of triangle "A-B-C" being the E. $\frac{1}{2}$ of sec. line bet. secs. 9 and 16, is therefore S. 89° 56' W., 39.93 chs.



The included angles of the triangle "A-B-C" are 90° 03' 52° 36' and 37° 21', the sum of which is 180° 00'.

Vertical angle from "A" to "B" = + 1° 20'.

Triangulated measurement of "A-B" is obtained by $\frac{\text{side } 37^\circ 21' \times \text{Base}}{\text{side } 52^\circ 36'}$ or $\frac{.60668 \times 39.93}{.79450} = 30.49 \text{ chs.}$

- 15.00 (Approximate) Bottom of canyon, containing a small stream of water, course NE., about 800 ft. below the cor. of secs. 9, 10, 15 and 16.
- Ascend about 850 ft., over S. slope.
- 30.49 Triangulation point on ridge, bearing E. and W., near E. end of same.
- Continue line and measurement by chaining.
- Descend 439 ft., over N. slope, to
- 40.00 True point for $\frac{1}{4}$ sec. cor. on a sloping ledge, where it cannot be properly monumented.
- Descend 96 ft. over N. slope, to
- 42.75 Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in the ground to bed rock, supported by a mound of stone for witness cor. to $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$
 S 9 $\frac{1}{4}$ S 10
 W C
 1921

from which,

- A cedar, 12 ins. in diam., brs. N. 88 $\frac{1}{2}$ ° E., 37 lks. dist., marked WC $\frac{1}{4}$ S 10 BT.
- A pine, 6 ins. in diam., brs. N. 64 $\frac{3}{4}$ ° W., 43 lks. dist., marked WC $\frac{1}{4}$ S 9 BT.

- 44.82 Descend 88 ft., over N. slope, to Keating Creek, 50 lks. wide, containing small stream of water, course E. in bottom of canyon.
- Ascend 867 ft., over S. and SE. slopes.
- 74.14 Ridge, brs. NE. and SW.
- Descend 230 ft., over NW. slope, to
- 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 18 ins. in the ground to bed rock, supported by a mound of stone for cor. of secs. 3, 4, 9 and 10, marked on brass cap,

T16S	R30E
S 4	S 3
S 9	S 10

 1921

from which,

- An oak, 4 ins. in diam., brs. N. 24 $\frac{1}{2}$ ° E., 25 lks. dist., marked BT.
- An oak, 4 ins. in diam., brs. S. 9° E., 18 lks. dist., marked BT.
- An oak, 6 ins. in diam., brs. S. 50 $\frac{1}{4}$ ° W., 34 lks. dist., marked T16S R30E S9 BT.
- An oak, 4 ins. in diam., brs. N. 48° W., 24 lks. dist., marked BT.

Land, mountainous.
 Soil, rocky, 4th rate, granite and porphyry formation.
 Timber, dense oak, pine, cedar, juniper and walnut.

54 Subdivision lines of Township 16 South, Range 30 East.

Chains.

Undergrowth, dense scrub oak, manzanita, ironwood, tesota and cacti.
Fair grass.

40.00 N. 89° 59' E., on a random line, bet. secs. 3 and 10.
Set temp. $\frac{1}{4}$ sec. cor.
79.96 Intersect N. and S. line, 2 lks. N. of the cor. of secs. 2, 3, 10 and 11.
Thence,
West, on true line, bet. secs. 3 and 10.
Over mountainous land, thru. scattering timber and dense undergrowth.
Descend 37 ft., over NW. slope.
1.50 Head of gulch, course N.
Ascend 152 ft., over NE. slope.
19.00 Ridge, brs. NW. and SE.
Descend 207 ft., over SW. slope.
35.95 Ascend 25 ft., over SE. slope, to
39.98 Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground, to bed rock, supported by a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,

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

and raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.
Ascend 15 ft., over SE. slope.
42.50 Spur, slopes S. Leave scattering and enter dense timber.
Descend 105 ft., over SW. slope.
57.02 Head of gulch, course S.
Ascend 510 ft., over SE. slope, to
75.50 Ridge, brs. NE. and SW.
Ascend 30 ft., over N. slope, to
79.96 The cor. of secs. 3, 4, 9 and 10.
Land, mountainous.
Soil, rocky, 4th rate.
Timber, pine, oak, and juniper, scattering in E. 42 $\frac{1}{2}$ chs.; dense in remainder.
Undergrowth, dense scrub oak, manzanita, catclaw, Spanish dagger and cacti. Fair grass.

8.76 N. 0° 1' W., on true line, bet. secs. 3 and 4.
Over mountainous land, thru. dense timber and undergrowth.
Descend 300 ft., over N. slope.
Gulch, course NE.
Ascend 55 ft., over SE. slope.
14.41 Point of spur, slopes NE.
Descend 200 ft., over N. slope, to
25.71 Top of perpendicular cliff, 70 ft. high, brs. E. and W., facing N.
25.81 Foot of cliff; descend 45 ft., over N. slope, to
27.69 Gulch, course E. near head.
Ascend 170 ft., over SE. slope.
33.72 Point of spur, slopes NE.
Descend 155 ft., over N. slope, to
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

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

from which,

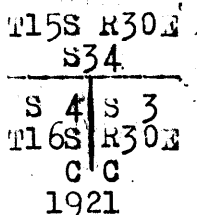
Subdivision lines of Township 16 South, Range 30 East. 55

Chains.

An oak, 6 ins. in diam., brs. N. $26\frac{3}{4}^{\circ}$ E., 38 lks. dist., marked $\frac{1}{4}$ S 3 BT.
 An oak, 6 ins. in diam., brs. N. $71\frac{1}{4}^{\circ}$ W., 45 lks. dist., marked $\frac{1}{4}$ S 4 BT.
 Descend 255 ft., over N. slope.
 54.46 Bottom of Brushy canyon, 70 lks. wide with small stream of water, course E.
 Ascend 435 ft., over S. slope.
 71.09 Spur, slopes SE.
 Descend 155 ft., over NE. slope.
 75.49 Gulch, course E.
 Ascend 510 ft., over S. slope.
 90.63 Ridge, brs. E. and W.
 Descend 82 ft., over N. slope, to
 95.36 Intersect Third Standard Parallel South, 8.09 chs. West of the Standard $\frac{1}{4}$ sec. cor. of sec. 34, T. 15 S., R. 30 E., reestablished by W. B. Kimmel, U.S.S. in 1914 which is an iron post, 1 in. in diam., projecting 16 ins. above ground, firmly set in ground and mound of stone, properly marked on brass cap, and witnessed by two properly marked bearing trees, as follows:

A pine, N. 50° E., 88 lks. dist.
 An oak, N. 12° W., 32 lks. dist.

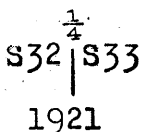
At point of intersection, set an iron post, 3 ft. long, 2 ins. in diam., 12 ins. in the ground to bed rock, supported by a mound of stone for closing cor. of secs. 3 and 4, marked on brass cap,



from which,
 A pine, 8 ins. in diam., brs. S. 81° E., 57 lks. dist., marked T16S R30E S3 CC BT.
 An oak, 4 ins. in diam., brs. S. 3° W., 38 lks. dist., marked CC BT.

Land, mountainous.
 Soil, rocky, 4th rate, porphyry formation.
 Timber, dense oak, pine, cedar and juniper.
 Undergrowth, dense manzanita, scrub oak, catclaw and cacti.
 Good grass.

From the cor. of secs. 4, 5, 32 and 33, on the S. bdy. of the tp., hereinbefore described,
 N. $0^{\circ} 2'$ W., bet. secs. 32 and 33.
 Over mountainous land, thru. dense timber and undergrowth.
 Ascend 427 ft., over SW. slope.
 10.40 Telephone line, brs. NE. and SW.
 30.75 Mining claim cor. post, marked E.C.-H.L. on NW. and W.C.-H. Top on SE. face, brs. S. $48\frac{1}{2}^{\circ}$ E., 143 lks. dist.
 30.94 Ridge, brs. NW. and SE. forming divide between Sulphur Springs and San Simon Valley.
 Descend 270 ft. over NE. slope to $\frac{1}{4}$ sec. cor.
 33.08 Trail, brs. NW. and SE.
 36.80 Trail, brs. NW. and SE.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,



56 Subdivision lines of township 16 South, range 30 East.

Chains

from which,
 An oak, 4 ins. in diam., brs. S. 49° E., 30 lks.
 dist., marked BT.
 An oak, 4 ins. in diam., brs. N. 36³/₄° W., 59 lks.
 dist., marked BT.
 Descend 255 ft., over NE. slope.
 49.80 Bottom of canyon, course NW, near head.
 Ascend 116 ft., over SW. slope.
 65.00 Spur, slopes NW.
 Descend 90 ft., over NE. slope.
 67.76 Gulch, course NW.
 Ascend 80 ft., over SW. slope, to
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., on bed rock,
 supported by a mound of stone, for cor. of secs. 28, 29,
 32 and 33, marked on brass cap,

T16S	R30E
S29	S28
S32	S33
1921	

from which,
 A pine, 8 ins. in diam., brs. N. 55¹/₂° E., 67 lks.
 dist., marked T16S R30E S28 BT.
 An oak, 10 ins. in diam., brs. S. 69° E., 27 lks.
 dist., marked T16S R30E S33 BT.
 A pine, 10 ins. in diam., brs. S. 15¹/₂° W., 35 lks.
 dist., marked T16S R30E S32 BT.
 A pine, 10 ins. in diam., brs. N. 7¹/₂° W., 65 lks.
 dist., marked T16S R30E S29 BT.
 Land, mountainous.
 Soil, rocky, 4th rate.
 Timber, dense oak, pine, juniper, cedar and walnut.
 Undergrowth, dense scrub oak, ironwood, catclaw and cacti.
 Fair grass.

40.00 East, on a random line, bet. secs. 28 and 33.
 Set temp. ¹/₄ sec. cor.
 79.82 Intersect N. and S. line, 9 lks. N. of the cor. of secs. 27,
 28, 33 and 34.
 Thence,
 N. 89° 56' W., on a true line, bet. secs. 28 and 33.
 Over mountainous land, thru. dense timber and under-
 growth.
 Descend 18 ft., over SW. slope.
 2.00 Road, brs. N. 75° W. and S. 75° E.
 3.30 From this point, Mart Chatman's house brs. S. 1 ch. dist.
 7.80 Whitetail Creek, containing a small stream of clear water,
 course S. 70° E.
 Ascend 105 ft., over NE. slope.
 14.20 From this point, mining claim cor. post, marked Winalaska
 on NE. face, and New Year on SE. face, brs. S. 0° 55' E.,
 3.04 chs. dist. This appears to be cor. No. 5 of New
 Year patented lode mining claim, Mineral Survey No.
 3125, California Mining District.
 From the same point Hilltop School house brs. S. 51° 10' E.
 Mine Superintendent's house brs. S. 2° 20' W.
 16.88 Point of spur, slopes NE.
 Descend 28 ft., over NW. slope.
 17.78 Draw, course NE.
 Ascend 528 ft., over E. slope, to
 39.91 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,

¹ / ₄ S 28
S 33
1921

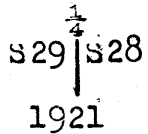
from which,

Subdivision lines of Township 16 South, Range 30 East. 57

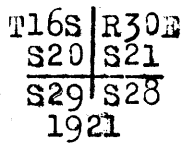
Chains.

A pine, 10 ins. in diam., brs. N. 23 $\frac{1}{2}$ ° W., 8 lks.
 dist., marked $\frac{1}{4}$ S 28 BT.
 A pine, 8 ins. in diam., brs. S. 35° W., 107 lks.
 dist., marked $\frac{1}{4}$ S 33 BT.
 From this cor., Mine Superintendent's house brs. S. 30 $\frac{1}{4}$ ° E.
 Ascend 81 ft., over E. slope.
 42.71 Spur, slopes NE.
 Descend 140 ft., over NW. slope.
 48.94 Gulch, course N.
 Ascend 805 ft., over NE. and E. slopes.
 71.74 From this point, a mining claim cor. post, marked N.C.V.-
 V.2 on SE. and SC CM on NW. faces, brs. South 0.05
 chs. dist.
 76.10 Ridge, brs. N. 20° W. and S.
 Descend 85 ft., over SW. slope, to
 79.82 The cor. of secs. 28, 29, 32 and 33.
 Land, mountainous.
 Soil, rocky, 4th rate; limestone formation.
 Timber, dense, pine, oak, juniper and walnut.
 Undergrowth, dense scrub oak, manzanita, ironwood, tesota,
 ocotillo and other cacti.
 Fair grass.

N. 0° 2' W., bet. secs. 28 and 29.
 Over mountainous land, thru. dense timber and undergrowth.
 Ascend 65 ft., over SW. slope.
 2.86 From this point, a mining claim cor. post, marked SE-CB
 11 on N. and NE-CB 2 on S. faces, brs. S. 66 $\frac{1}{2}$ ° W., 137
 lks. dist.
 11.64 Ridge, brs. N. 10° E. and S. 20° E.
 Descend 186 ft., over NW. and W. slopes, to
 22.43 Same ridge, brs. N. 10° W. and S. 10° E.
 Descend 90 ft., over NE. and E. slopes, to
 31.26 Same ridge, brs. N. 40° E. and S. 10° W.
 Descend 381 ft., over NW. slope, to
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
 the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,



from which,
 A pine, 10 ins. in diam., brs. S. 57 $\frac{3}{4}$ ° E., 33 lks.
 dist., marked $\frac{1}{4}$ S 28 BT.
 A pine, 8 ins. in diam., brs. N. 59 $\frac{1}{4}$ ° W., 32 lks.
 dist., marked $\frac{1}{4}$ S 29 BT.
 Descend 435 ft., over NW. slope.
 60.70 Wash, 50 lks. wide, in gulch, course NE.
 Ascend 110 ft., over SE. slope.
 67.56 Point of spur, slopes E.
 Descend 121 ft., over NE. slope.
 72.42 Old road, brs. E. and W.
 72.87 Whitetail Creek, course E., containing a small stream
 of water.
 Ascend 123 ft., over S. slope.
 77.06 Point of spur, slopes SE.
 Descend 34 ft., over NE. slope, to
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 18 ins. in
 the ground to bed rock, supported by a mound of stone,
 for cor. of secs. 20, 21, 28 and 29, marked on brass cap,



from which,

58 Subdivision lines of Township 16 South, Range 30 East.

Chains.

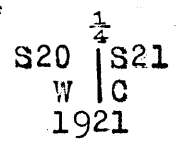
- An oak, 10 ins. in diam., brs. N. 27° E., 17 lks.
dist., marked T16S R30E S21 BT.
- An oak, 11 ins. in diam., brs. S. 7½° E., 68 lks.
dist., marked T16S R30E S28 BT.
- An oak, 14 ins. in diam., brs. S. 1½° W., 100 lks.
dist., marked T16S R30E S29 BT.
- An oak, 8 ins. in diam., brs. N. 69½° W., 35 lks.
dist., marked T16S R30E S20 BT.
- Land, mountainous.
Soil, rocky, 4th rate.
Timber, dense oak, cedar, pine, juniper and walnut.
Undergrowth, dense scrub oak, manzanita, catclaw and cacti.
Fair grass.
-
- 40.00 S. 89° 56' E., on a random line, bet. secs. 21 and 28.
Set temp. ¼ sec. cor.
- 80.04 Intersect N. and S. line, 12 lks. S. of the cor. of secs.
21, 22, 27 and 28.
- Thence,
S. 89° 59' W., on a true line, bet. secs. 21 and 28.
Over mountainous land, thru. dense timber and undergrowth.
Descend slightly over SW. slope.
- 0.90 Wash, course S.
Ascend 160 ft., over E. slope.
- 9.14 Spur, slopes S.
Descend 800 ft., over W. and SW. slopes to ¼ sec. cor.
- 9.77 From this point, house of Superintendent of Hilltop Mine
brs. S. 3° W.
Hilltop store brs. S. 6½° W.
Hilltop Mine brs. S. 10° W.
- 40.02 Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in
the ground to bed rock, supported by a mound of stone
for ¼ sec. cor., marked on brass cap,
- $$\frac{1}{4} \text{ S } 21$$

$$\text{S } 28$$
 1921
- from which,
An oak, 4 ins. in diam., brs. N. 20° E., 16 lks.
dist., marked BT.
An oak, 4 ins. in diam., brs. S. 70° E., 30 lks.
dist., marked BT.
- 40.30 Descend slightly over SW. slope, to
Gulch, course S.
Ascend 340 ft., over E. slope.
- 51.34 Spur, slopes S.
Descend 210 ft., over W. slope.
- 57.55 Gulch, course S.
Ascend 1150 ft. over W. slope, to
- 60.50 Spur, slopes S.
Descend 340 ft., over W. slope.
- 75.50 Indian Creek, 80 lks. wide, course SE.
Ascend 30 ft., over NE. slope, to
- 80.04 The cor. of secs. 20, 21, 28 and 29.
Land, mountainous.
Soil, rocky, 4th rate, limestone formation.
Timber, dense pine; oak, juniper and cedar.
Undergrowth, dense scrub oak, ironwood, tesota, Spanish dagger and cacti.
Fair grass.
-
- 4.20 N. 0° 2' W., bet. secs. 20 and 21.
Over mountainous land, thru. dense timber and undergrowth.
Descend 20 ft., over NE. slope.
Indian Creek, 50 lks. wide, course SE.
Ascend 220 ft., over SW. and S. slopes.

Subdivision lines of Township 16 South, Range 30 East, 59

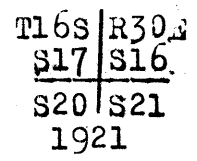
Chains

- 4.30 Trail, brs. NW. and SE.
- 17.42 Point of spur, slopes SW.
Descend 23 ft., over NW. slope.
- 19.42 Wash, 20 lks. wide, course SW.
Ascend 292 ft., over SE. slope, to
- 34.10 Point of spur, slopes SE.
Ascend 55 ft., over steep E. slope.
- 40.00 The true point for $\frac{1}{4}$ sec. cor. falls on precipitous E. slope, where it cannot be monumented; therefore, at the nearest point suitable for monument, or 10.50 chs. N. 0° 2' W. herefrom, set witness cor., as hereinafter described.
- 41.25 Descend 40 ft., over NE. slope.
- 44.19 Same wash, course SE.
Ascend 142 ft., over SW. slope, to
- 50.50 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for witness cor. to $\frac{1}{4}$ sec. cor., marked on brass cap,



from which,
 An oak, 12 ins. in diam., brs. S. 16° E., 38 lks. dist., marked WC $\frac{1}{4}$ S21 BT.
 A pine, 8 ins. in diam., brs. N. 61 $\frac{1}{4}$ ° W., 68 lks. dist., marked WC $\frac{1}{4}$ S 20 BT.

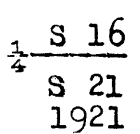
- 80.00 Ascend 760 ft., over SW. slope, to
Set an iron post, 3 ft. long, 2 ins. in diam., on bed rock,, supported by a mound of stone, for cor. of secs. 16, 17, 20, and 21, marked on brass cap,



from which,
 A pine, 10 ins. in diam., brs. N. 30° E., 33 lks. dist., marked T16S R30E S16 BT.
 A pine, 4 ins. in diam., brs. S. 14° E., 67 lks. dist., marked BT.
 A juniper, 10 ins. in diam., brs. S. 87 $\frac{3}{4}$ ° W., 29 lks. dist., marked T16S R30E S20 BT.
 A pine, 10 ins. in diam., brs. N. 6° W., 32 lks. dist., marked T16S R30E S17 BT.

Land, mountainous.
 Soil, rocky, 4th rate.
 Timber, dense, oak, pine, juniper and cedar.
 Undergrowth, dense scrub oak, ironwood, tesota and cacti.
 Fair grass.

- 40.00 N. 89° 59' E., on a random line, bet. secs. 16 and 21.
Set temp. $\frac{1}{4}$ sec. cor.
- 79.86 Intersect N. and S. line, 7 lks. N. of the cor. of secs. 15, 16, 21 and 22.
Thence,
N. 89° 58' W., on a true line, bet. secs. 16 and 21.
Over mountainous land, thru. dense timber and undergrowth.
Ascend 80 ft., over N. slope.
- 4.30 Descend 25 ft., over NW. slope.
- 5.74 Gulch, course NE.
- 39.93 Ascend 1293 ft., over SE. and E. slope, to
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,



60 Subdivision lines of Township 16 South, Range 30 East.

Chains.

- from which,
 A juniper, 4 ins. in diam., brs.N.47°W., 33 lks.
 dist., marked BT.
 A juniper, 3 ins. in diam., brs.S.57°W., 24 lks.
 dist., marked BT.
- Ascend 165 ft., over E. slope.
 44.10 Ridge, brs.N.30°W. and S.30°E.
 Descend 342 ft., over W. slope.
 57.00 Wash, 20 lks.wide, in gulch, course S.
 Ascend 245 ft., over E. slope.
 65.00 Spur, slopes S.
 Descend 358 ft., over W. and SW. slopes, to
 79.86 The cor. of secs.16,17,20 and 21.
 Land, mountainous.
 Soil, rocky, 4th rate.
 Timber, dense oak, juniper, pine and cedar.
 Undergrowth, dense scrub oak, ironwood, manzanita, tesota
 and cacti.
 Fair grass.
-
- N.0°2'W., bet. secs.16 and 17.
 Over mountainous land, thru. dense timber and undergrowth.
 Ascend 45 ft., over SW. slope..
- 2.00 Point of spur, slopes SW. Beyond this point, the sec. line
 passes over a gulch, the sides of which are too steep
 and broken to permit of accurate chaining; therefore,
 make stadia measurement across the gulch, as follows:
 Mean of three rod readings 6.4 ft. Vertical angle - 7½°.
 The distance to rod is therefore 12.60 chs.
- 7.00 (Approximate) Bottom of gulch, 20 lks.wide, course W. near
 head, about 235 ft. below 2.00 ch. point.
 Ascend about 125 ft. over S. slope.
- 14.60 Rod point on spur, sloping W.
 Continue line and measurement by chaining.
 Descend 250 ft., over NW. slope.
- 24.24 Gulch, course W. near head.
 Ascend 440 ft., over SW. slope, to
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in
 the ground to bed rock, supported by a mound of stone,
 for ¼ sec. cor., marked on brass cap,

$\frac{1}{4}$
 S17 | S16
 1921

- from which,
 An oak, 4 ins. in diam., brs.S.60°E., 20 lks.
 dist., marked BT.
 A juniper, 8 ins. in diam., brs.S.84°W., 63 lks.
 dist., marked ¼ S 17 BT.
- Ascend 65 ft., over SW. slope.
 47.50 Point of spur, slopes W.
 Descend 90 ft., over NW. slope.
 57.28 Saddle in ridge, brs.NW. and SE.
 Ascend 140 ft., over SE. slope.
 68.57 Spur, slopes E.
 Descend 85 ft., over NE. slope, to
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in
 the ground, for cor. of secs.8,9,16 and 17, marked on
 brass cap,

T16S | R30E
 S 8 | S 9
 S17 | S16

1921

from which,

Subdivision lines of Township 16 South, Range 30 East. 61

Chains.

- A pine, 12 ins. on diam., brs. N. 45° E., 3 lks.
dist., marked T16S R30E S9 BT.
An oak, 14 ins. in diam., brs. S. 18° E., 51 lks.
dist., marked T16S R30E S16 BT.
An oak, 8 ins. in diam., brs. S. 87° W., 60 lks.
dist., marked T16S R30E S17 BT.
An oak, 10 ins. in diam., brs. N. 80° W., 57 lks.
dist., marked T16S R30E S8 BT.
- Land, mountainous.
Soil, rocky, 4th rate.
Timber, dense pine, juniper, cedar and oak.
Undergrowth, dense scrub oak, ironwood, manzanita and cat-claw.
Fair grass.
-
- 40.00 S. 89° 58' E., in a random line, bet. secs. 9 and 16.
Set temp. $\frac{1}{4}$ sec. cor.
79.86 Intersect N. and S. line, 14 lks. S. of the cor. of secs. 9, 10, 15 and 16.
Thence,
S. 89° 56' W., on a true line, bet. secs. 9 and 16.
Over mountainous land, thru. dense timber and undergrowth.
Ascend 144 ft., over steep N. slope.
4.58 Descend 347 ft., over NW. slope.
25.47 Gulch, course NW. near head.
Ascend 15 ft., over NE. slope.
28.08 Descend 85 ft., over NW. slope.
35.53 Wash, 40 lks. wide, in gulch, course NE.
Ascend 105 ft., over E. slope, to
39.93 Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground to bed rock, supported by a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,
- $$\frac{1}{4} \frac{S \ 9}{S \ 16} \\ 1921$$
- from which,
A pine, 4 ins. in diam., brs. N. 6° W., 65 lks.
dist., marked BT.
A juniper, 10 ins. in diam., brs. 67° E., 15 lks.
dist., marked $\frac{1}{4}$ S 16 BT.
Ascend 250 ft., over E. slope.
55.00 Point of spur, slopes SE.
Descend 45 ft., over SW. slope.
61.30 Gulch, course SE., containing a small stream of water.
Ascend 595 ft., over NE. slope, to
79.86 The cor. of secs. 8, 9, 16 and 17.
Land, mountainous.
Soil, rocky, 4th rate.
Timber, dense oak, juniper, pine and cedar.
Undergrowth, dense scrub oak, ironwood, tesota and cacti.
Fair grass.
-
- N. 0° 2' W., bet. secs. 8 and 9.
Over mountainous land, thru. dense timber and undergrowth.
Descend 160 ft., over NE. slope.
14.95 Head of gulch, course E.
Ascend 136 ft., over S. slope
20.00 Point of spur, slopes SE.
Descend 50 ft., over NE. slope.
25.37 Head of gulch, course E.
Ascend 113 ft., over SE. slope.
31.00 Ridge, brs. E and W.
Descend 160 ft., over NW. slope, to
39.32 Top of cliff, bearing NE and SW., facing NW.

62 Subdivision lines of Township 16 South, Range 30 East.

Chains.

At a point, 0.55 chs. West, set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for witness cor. to $\frac{1}{4}$ sec. cor., marked on brass cap,

S 8 $\frac{1}{4}$ S 9 WC
1921

from which,

A pine, 10 ins. in diam., brs. S. 55° E., 10 lks. dist., marked WC $\frac{1}{4}$ S 9 BT.

A pine, 10 ins. in diam., brs. N. 58° W., 21 lks. dist., marked WC $\frac{1}{4}$ S 8 BT.

Descend 158 ft., over NW. slope.

40.00 The true point for $\frac{1}{4}$ sec. cor., falls on face of cliff, where it cannot be monumented; therefore, at the nearest available point, establish witness cor. as described above which is S. 38° 56' W., 0.87 $\frac{1}{2}$ chs. dist. from the cor. point.

42.00 Gulch, course NE.

Ascend 110 ft. over SE. slope.

47.92 Point of spur, slopes E.

Descend 82 ft. over NE. slope.

51.82 Head of dry bed of Keating Creek, course E.

Ascend 180 ft., over SE. slope.

69.20 Spur, slopes E.

Descend 58 ft., over N. slope.

76.65 Gulch, course E.

Ascend 30 ft., over S. slope, to

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 20 ins. in the ground to bed rock, supported by a mound of stone, for cor. of secs. 4, 5, 8 and 9, marked on brass cap,

T16S | R30E
S 5 | S 4
S 8 | S 9
1921

from which,

An oak, 4 ins. in diam., brs. N. 72 $\frac{1}{2}$ ° E., 49 lks. dist., marked BT.

An oak, 8 ins. in diam., brs. S. 15° E., 12 lks. dist., marked T16S R30E S9 BT.

An oak, 8 ins. in diam., brs. S. 38 $\frac{1}{2}$ ° W., 21 lks. dist., marked T16S R30E S8 BT.

An oak, 4 ins. in diam., brs. N. 30° W., 36 lks. dist., marked BT.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, dense pine, oak and juniper.

Undergrowth, dense scrub oak, ironwood, tesota and cacti.

Fair grass.

40.00 N. 89° 56' E., on a random line, bet. secs. 4 and 9. Set temp. $\frac{1}{4}$ sec. cor.

80.04 Intersect N. and S. line, 19 lks. N. of the cor. of secs. 3, 4, 9 and 10.

Thence,

N. 89° 56' W., on a true line, bet. secs. 4 and 9.

Over mountainous land, thru, dense timber and undergrowth.

Descend 110 ft., over NW. slope.

5.13 Head of gulch, course N.

Ascend 310 ft. over NE. slope.

18.44 Ridge, brs. NW. and SE.

Descend 290 ft., over SW. slope.

37.08 Gulch, course SE. from W., containing a small stream of water.

Ascend 10 ft., along bottom of gulch, to

Subdivision lines of Township 16 South, Range 30 East.

BOOK 3592
63

Chains.

39.00 Leave bottom of gulch, course E. and SE. from N. This gulch, is joined at this point by another gulch, from SW.

Ascend 20 ft., over SE. slope, to

40.02 Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground to bed rock, supported by a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,
$$\begin{array}{r} \frac{1}{4} \text{ S } 4 \\ \text{S } 9 \\ 1921 \end{array}$$

from which,

An oak, 10 ins. in diam., brs. N. 28° E., 16 lks. dist., marked $\frac{1}{4}$ S 4 BT.An oak, 12 ins. in diam., brs. S. 27° E., 36 lks. dist., marked $\frac{1}{4}$ S 9 BT.

Ascend 415 ft., over SE. and E. slopes.

57.69 Point of spur, slopes S.

Descend 142 ft., over SW. slope.

62.88 Gulch, course S.

Ascend 425 ft., over SE. and S. slopes, to

80.04 The cor. of secs. 4, 5, 6 and 9.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, dense oak, pine and juniper.

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

Fair grass.

N. 0° 2' W., on true line, bet. secs. 4 and 5.

Over mountainous land, thru. dense timber and undergrowth.

Ascend 10 ft., over S. slope.

1.50 Spur, slopes E.

Descend 60 ft., over N. slope, to

3.90 Head of gulch, course E.

Descend 20 ft. over NE. slope.

5.00 Ascend 20 ft., over S. slope.

9.27 Spur, slopes E.

Descend 52 ft., over N. slope.

11.10 Gulch, course E.

Ascend 180 ft., over S. slope.

16.35 Ridge, brs. E. and W.

Descend 193 ft., over N. slope.

20.85 Gulch, course NE.

Ascend 25 ft., over SE. slope.

23.40 Descend 240 ft., over NE. slope, to

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in the ground to bed rock, supported by a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,
$$\begin{array}{r} \frac{1}{4} \\ \text{S } 5 \text{ | } \text{S } 4 \\ 1921 \end{array}$$

from which,

A pine, 12 ins. in diam., brs. N. 17° E., 38 lks. dist., marked $\frac{1}{4}$ S 4 BT.A juniper, 14 ins. in diam., brs. S. 65° W., 225 lks. dist., marked $\frac{1}{4}$ S 5 BT.

Descend 227 ft., over steep NE. slope.

40.50 Triangulation point.

45.00 Bottom of Brushy Canyon, course E. near head.

Beyond this point, the slopes are extremely steep and broken, rendering chaining impracticable; therefore, triangulate, as described as follows, and as shown on the diagram hereon:

From 40.50 chs. station, indicated on diagram at "A" line in a flag "D" N. 0° 2' W. on spur, sloping E.

64 Subdivision lines of Township 16 South, Range 30 East.

Chains.

From "D" line in a flag "B",
S. 0°2'E. in bottom of gulch,
course A.

From "B", measure a base,
S. 39°58'W., 7.00 chs. to point
"C" at head of gulch, from which
flag at "A," is visible.
Flag at "A," is invisible from
"B."

Bearing "C-A" = S. 18°28'E.

Bearing "C-D" = N. 20°26'E.

Included angles of triangle "A-B-C"
are 18°26', 90°00' and 71°34', the
sum of which is 180°00'.

Included angles of triangle "B-C-D"
are 90°00', 69°32' and 20°28', the
sum of which is 180°00'.

Vertical angle "A" to "D" = + 15°.

Vertical angle "B" to "D" = + 36°.

Triangulated measurement of "A-B"
is obtained by

Tang. 71°34' x Base or 3.00028 x 7.00 = 21.00 chs., which,
added to 40.50 chs. gives 61.50 chs. N. 0°2'W. from cor.
of secs. 4, 5, 8 and 9 for the position of triangulation
point "B."

Triangulated measurement of "B-D" is obtained by

Tang. 69°32' x Base or 2.67937 x 7.00 = 18.76 chs., which
added to 61.50 chs. gives 80.26 chs. N. 0°2'W., from cor.
of secs. 4, 5, 8 and 9, for the position of triangulation
point "D."

57.00 (Approximate) Spur, slopes E. About 200 ft. above bottom
of Brushy Canyon.

61.50 Descend about 165 ft., over NE. slope, to
Triangulation point "B," at bottom of gulch, course A.;
heads 7 chs. W.

80.26 Ascend about 900 ft., over SE. slope, to
Triangulation point "D" on spur sloping E.
Continue line and measurement by chaining.
Descend 170 ft., over N. slope.

86.10 Gulch, course E.

Ascend 160 ft. over S. slope.

91.73 Ridge, brs. E. and W. turns to N. at about 5. chs. W. of this
point.

Descend 50 ft., over NE. slope, to

95.34 Intersect Third Standard Parallel South, 8.06 chs. West of
the standard $\frac{1}{4}$ sec. cor. of sec. 33 T. 15S., R. 30 E. rees-
tablished by W. B. Kimmel, U. S. S. in 1914, which is an
iron post, 1 in. in diam., projecting 36 ins. above
ground, firmly set in a mound of stone, properly marked
on brass cap, and witnessed by a mound of stone NE.
of cor. No bearing trees.

At point of intersection,

Set an iron post, 3 ft. long, 2 ins. in diam., on bed rock,
supported by a mound of stone, for closing cor. of secs.
4 and 5, marked on brass cap,

T15S R30E

S33

S 5 S 4

T16S R30E

C C

1921

from which,

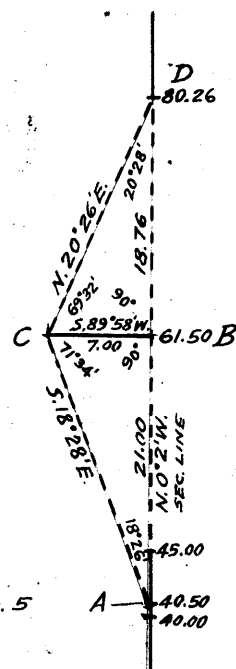
A pine, 8 ins. in diam., brs. S. 73 $\frac{1}{2}$ °W., 21 lbs.

dist., marked T16S R30E S5 CC BT.

No other trees within limits. Raise a mound of stone, 3
ft. base, 2 ft. high, S. of cor.

Land, mountainous.

Soil, rocky, 4th rate.



Subdivision lines of Township 16 South, Range 30 East, 65

Chains.

Timber; dense oak, pine, juniper and cedar:
Undergrowth, dense scrub oak, ironwood, manzanita and cat-claw.
Fair grass.

-
- From the cor. of secs. 5, 6, 31 and 32, on the S. bdy. of Tp., hereinbefore described;
N. 0° 2' W., bet. secs. 31 and 32.
Over mountainous land, thru. dense timber and undergrowth.
Ascend 150 ft., over SW. slope.
- 11.23 Point of spur, slopes W.
Descend 85 ft., over NW. slope.
- 19.30 Gulch, 20 lks. wide, course SW.
Ascend 153 ft., over SE. slope, to
- 29.00 Thence along rolling W. slope, on mesa, bearing E. and W.
Descend slightly to
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground to bed rock, supported by a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,
- $\frac{1}{4}$
 S31 | S32
 1921
- from which,
A pine, 24 ins. in diam., brs. N. 15° E., 6 lks. dist., marked $\frac{1}{4}$ S 32 BT.
A juniper, 14 ins. in diam., brs. N. 64° W., 35 lks. dist., marked $\frac{1}{4}$ S 31 BT.
- Continue over rolling, W. slope of mesa, bearing E. and W.
- 48.00 Ascend 25 ft. to Rim of mesa, brs. E. and W. Leave mesa.
Descend 145 ft., over N. slope.
- 61.30 Head of gully, course NW.
Ascend 15 ft., over SW. slope, to
- 65.44 Spur, slopes NW. Beyond this point the sec. line crosses a canyon, and chaining is impracticable; therefore, measure the remainder of the line by stadia as follows:
A temp. cor. of secs. 29, 30, 31 and 32 is set at 80.00 chs. W. of the cor. of secs. 28, 29, 32 and 33.
Rod set at 10 lks. E. of this temp. sec. cor. brs. N. 0° 2' W. from 65.44 ch. point.
Mean of three rod readings, 7.27 ft. Vertical angle, 0°. Measurement to rod is therefore 14.56 chs., which added to 65.44 chs. gives 80.00 chs. N. 0° 2' W. from cor. of secs. 5, 6, 31 and 32 as the position of the rod point.
- 66.00 (Approximate) S. rim of canyon, brs. NW. and SE.
Descend about 150 ft., over NE. slope.
- 70.00 (Approximate) Bottom of canyon, course NW.
Ascend about 100 ft., over SW. slope, to
- 75.00 (Approximate) N. rim of canyon, brs. NW. and SE.
Ascend about 50 ft. over SW. slope, to
- 80.00 Rod point. Set an iron post, 3 ft. long, 2 ins. in diam., on bed rock, supported by a mound of stone, for cor. of secs. 29, 30, 31 and 32, marked on brass cap,

T16S | R30E
 S30 | S29
 S31 | S32
 1921

and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
Land, mountainous.
Soil, rocky, 4th rate.

66 Subdivision lines of Township 16 South, Range 30 East.

Chains.

Timber, dense cedar, juniper, pine and oak.
Undergrowth, dense manzanita, scrub oak, catclaw and cacti.
Fair grass.

-
- From cor. of secs. 28, 29, 32 and 33,
West, on random line, bet. secs. 29 and 32.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.00 Set temp. cor. of secs. 29, 30, 31 and 32. Survey of line bet. secs. 30 and 31; as hereinbefore described intersects this random line at 10 lks. E. of this temp. cor.; therefore, the true course and length of line, bet. secs. 29 and 32, are west, 79.90 chs.
Return to the cor. of secs. 28, 29, 32 and 33.
Thence,
West, on a true line, bet. secs. 29 and 32.
Over mountainous land, thru. dense timber and undergrowth.
Descend 335 ft., over SW. slope.
- 9.34 Gulch, course NW.
Ascend 35 ft., over NE. slope.
- 12.78 Point of spur, slopes N.
Descend 55 ft., over NW. slope.
- 13.61 Wash, 50 lks. wide, in gulch, course N.
Ascend 9 ft., over NE. slope, to
- 15.00 Wash, 20 lks. wide, course NE.
Ascend 180 ft., over SE. slope.
- 23.00 Point of short spur, slopes SE.
Descend 17 ft., over S. slope.
- 28.73 From this point, a mining claim cor. post, marked SWCB-9 on N. face, Line CB-7 on W. face and SE.COM on S. face brs. N. $37\frac{1}{2}^{\circ}$ E., 3.20 chs. dist.
Mine brs. S. 12° E. about 40 chs. dist.
Ascend 83 ft., over SE. slope.
- 31.00 Old road, brs. N. and S.
31.64 Spur ridge, brs. N. 10° E. and S. 10° W. sloping NE.
39.00 Descend slightly over NW. slope, to
- 39.95 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 29
S 32
1921
- from which,
An oak, 4 ins. in diam., brs. N. $20\frac{1}{2}^{\circ}$ E., 32 lks. dist., marked BT.
An oak, 4 ins. in diam., brs. S. $10\frac{1}{2}^{\circ}$ E., 55 lks. dist., marked BT.
- Descend 16 ft., over NW. slope.
- 42.66 Gulch, course N.
Ascend 540 ft., over NE. slope.
- 63.14 Spur, slopes NE.
Descend 15 ft.
- 66.63 Gulch, course N.
Ascend 175 ft.
- 76.10 Ridge, brs. NW. and SE.
Descend 53 ft., over SW. slope, to
- 79.90 The cor. of secs. 29, 30, 31 and 32.
Land, mountainous.
Soil, rocky, 4th rate.
Timber, dense pine, oak, juniper and cedar.
Undergrowth, dense scrub oak, catclaw, locust and cacti.
Fair grass.

West, on random line, bet. secs. 30 and 31.
The beginning of this line passes over a canyon and chaining is impracticable; therefore, obtain measurement

Subdivision lines of Township 16 South, Range 30 East. Chains.

across the canyon by stadia, as follows:
 Mean of three rod readings, 11.78 ft. Vertical angle, 0°. Measurement to rod is therefore, 23.60 chs.
 23.60 Rod point at W. rim of canyon, on point of spur, sloping N. Beyond this point, the surface is extremely rough and broken, and in addition to the precipitous slopes is rendered almost impassable by numerous high rock pedestals; therefore, set temp. witness cor. to 1/4 sec. cor. of secs. 30 and 31 at this point.
 No suitable base can be measured from this line for a triangulation; therefore, the measurement of the remainder of the sec. line is obtained by triangulating from a Base of 75.90 chs. N. from the cor. of secs. 25, 30, 31 and 36, as hereinbefore described, and illustrated in connection with the notes of survey of the W. bdy. of the tp.

This triangulation determined the length of this sec. line to be 80.11 chs., and the true bearing to be east.
 80.11 Intersect the cor. of secs. 25, 30, 31 and 36, on the W. bdy. of the tp., hereinbefore described.

Thence,
 East, on true line, bet. secs. 30 and 31.
 Over mountainous land, thru scattering timber, dense undergrowth and high rock pedestals, across a series of deep gulches, course N.

Measurement of 56.51 chs. by triangulation, as hereinbefore described in notes of survey of W. bdy. of Tp.
 35.00 (Approximate) Sharp rocky spur, slopes N.
 Descend over cliffs, facing E.

40.11 True point for 1/4 sec. cor. falls on face of cliff on the W. side of a gulch, and is inaccessible.

45.00 (Approximate) Bottom of gulch, 50 lks. wide, course N. Ascend about 400 ft., over W. slope, to

54.00 (Approximate) Top of perpendicular cliff, 200 ft. high, bearing N. and S., facing W.

Ascend to
 56.51 Triangulation point at point of spur, sloping N., and rim of canyon bearing NW. and SE

This is the nearest point to the 1/4 sec. cor. point, at which a witness cor. can be set; therefore
 Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground to bedrock, supported by a mound of stone, for witness cor. to 1/4 sec. cor., marked on brass cap,

WC 1/4 S 30
 S 31
 1921

from which,
 A pine, 6 ins. in diam., brs. S. 10 1/4° E., 69 lks. dist., marked WC 1/4 S 31 BT.
 A pine, 10 ins. in diam., brs. N. 39 1/4° W., 144 lks. dist., marked WC 1/4 S 30 BT.

Measurement of remainder of line by stadia as hereinbefore described.
 Descend about 200 ft., over NE. slope.
 75.00 (Approximate) Bottom of canyon, course NW.
 Ascend about 200 ft., over SW. slope, to

80.11 The cor. of secs. 29, 30, 31 and 32.
 Land, mountainous.
 Soil, rocky, 4th rate.
 Timber, scattering oak, pine, cedar and juniper.
 Undergrowth, dense scrub oak, manzanita, catclaw and cacti.

N. 0° 2' W., bet. secs. 29 and 30.
 Over mountainous land, thru dense timber and undergrowth.
 Ascend 35 ft., over SW. slope.
 5.28 Ridge, brs. NW and SE.

68 Subdivision lines of Township 16 South, Range 30 East,

Chains.

- 34.15 Descend 495 ft. over NE. slope.
Ascend 28 ft., over SE. slope.
37.67 Spur, slopes E.
38.40 Descend 45 ft., over NE. slope, to
Top of cliff, 60 ft. high, brs. NW. and SE. facing NE.
Set an iron post, 3 ft. long, 1 in. in diam., on bed rock,
supported by a mound of stone, for witness cor. to $\frac{1}{4}$
sec. cor., marked on brass cap,

W C
 $\frac{1}{4}$
S30 | S29
1921

- from which,
An oak, 4 ins. in diam., brs. S. $40\frac{1}{2}^{\circ}$ E., 53 lks.
dist., marked WC $\frac{1}{4}$ BT.
An oak, 4 ins. in diam., brs. N. $80\frac{1}{2}^{\circ}$ W., 44 lks.
dist., marked WC $\frac{1}{4}$ BT.
40.00 Descend 350 ft., over NE. slope.
Point for $\frac{1}{4}$ sec. cor. falls on face of cliff, where it can
not be monumented; therefore witness cor. is set at
1.60 chs. S. $0^{\circ} 2'$ E. herefrom, as described above.
62.36 Spur, slopes N. 10° E.
80.00 Descend 153 ft., over NW. slope, to
Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in
the ground, for cor. of secs. 19, 20, 29 and 30, marked
on brass cap,

T16S | R30E
S19 | S20
S30 | S29
1921

- from which,
An oak, 4 ins. in diam., brs. N. 62° E., 10 lks. dist.,
marked BT.
An oak, 4 ins. in diam., brs. S. $72\frac{1}{2}^{\circ}$ E., 18 lks. dist.,
marked BT.
A pine, 12 ins. in diam., brs. S. 54° W., 82 lks. dist.,
marked T16S R30E S30 BT.
A juniper, 14 ins. in diam., brs. N. $83\frac{1}{2}^{\circ}$ W., 60 lks. dist.,
marked T16S R30E S19 BT.

Land, mountainous.
Soil, rocky, 4th rate.
Timber, dense oak, pine, juniper and cedar.
Undergrowth, dense ironwood, catclaw and cacti.
Fair grass.

- 40.00 East, on a random line, bet. secs. 20 and 29.
Set temp. $\frac{1}{4}$ sec. cor.
80.04 Intersect N. and S. line, 5 lks. S. of the cor. of secs. 20,
21, 28 and 29.
Thence,
S. $89^{\circ} 58'$ W., on a true line, bet. secs. 20 and 29.
Over mountainous land, thru. dense timber and undergrowth.
Ascend 70 ft., over NE. slope.
6.40 Spur, slopes SE.
Ascend 54 ft., over S. and SE. slopes.
12.86 Point of spur, slopes S.
Descend 67 ft. over SW. slope.
18.27 Ascend 30 ft., over S. slope.
19.30 From this point, Cor. No. 3 of Cochise White Marble patented
placer mining claim, Mineral Survey No. 2591, Cali-
fornia Mining District, brs. S. 47 lks. dist.

subdivision lines of Township 16 South, Range 30 East. 69

Chains.	
21.70	Descend 50 ft., over SW. slope.
26.00	Old road, brs. N. 80° W. and S. 80° W.
28.00	Same road, brs. N. 80° E. and S. 80° W.
32.00	Same road, brs. NW. and SE.
35.00	Whitetail Creek, 70 lks. wide, course SE., containing a small stream of water.
40.02	Ascend 85 ft., over NE. slope, to 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, $\frac{1}{4} \frac{S \ 20}{S \ 29}$ 1921 from which, A pine, 12 ins. in diam., brs. N. 8° E., 9 lks. dist., marked $\frac{1}{4}$ S 20 BT. An oak, 5 ins. in diam., brs. S. 12° E., 36 lks. dist., marked $\frac{1}{4}$ S 29 BT.
56.37	Ascend 370 ft., over NE. slope. Point of spur, slopes N.
70.00	Descend 205 ft., over NW. slope. Wash, 20 lks. wide, in gulch, course N.
70.60	Ascend 116 ft., over NE. slope. Old road, brs. N. and S.
76.79	Point of spur, slopes N. Descend 15 ft., over NW. slope, to
80.04	The cor. of secs. 19, 20, 29 and 30. Land, mountainous. Soil, rocky, 4th rate. Timber, dense oak, pine, juniper and cedar. Undergrowth, dense scrub oak, manzanita, catclaw and cacti. Fair grass.
1.70	West, on a true line, bet. secs. 19 and 30. Over mountainous land, thru. dense timber and undergrowth. Descend 23 ft., over NW. slope. Wash, 10 lks. wide, course NE.
16.83	Ascend 267 ft., over SE. slope. Spur, slopes NE. Descend 30 ft., over NW. slope.
20.30	Gulch, course NE. Ascend 284 ft., over SE. slope.
29.58	Point of spur, slopes SE. Ascend 30 ft., over S. slope, to
33.64	Head of gulch, course SE. Ascend 230 ft., over E. slope, to
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 17 ins. in the ground to bed rock, supported by a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4} \frac{S \ 19}{S \ 30}$ 1921 from which, An oak, 6 ins. in diam., brs. N. 44° W., 13 lks. dist., marked $\frac{1}{4}$ S 19 BT. A pine, 8 ins. in diam., brs. S. 20° E., 36 lks. dist., marked $\frac{1}{4}$ S 30 BT.
42.00	Ascend 60 ft., over E. slope. Spur, slopes NE.
44.78	Descend 70 ft., over NW. slope. Head of gulch, course N. Ascend 217 ft., over NE. slope.
55.45	Ridge, brs. N. and S. From this point, the cor. of secs. 25, 30, 31 and 36 on W. bdy. of Tp., brs. S. 17° 00' W.

70 Subdivision lines of Township 16 South, Range 30 East.

Chains.

64.04 Descend 95 ft., over W. slope.
Wash, 20 lks. wide, in gulch, course S. near head.

66.00 Ascend 27 ft., over NE. slope, to
Head of gulch, course NW.

79.91 Ascend 237 ft., over E. slope of Sugar Loaf Mountain, to
The theoretical point for cor. of secs. 19, 24, 25 and 30
on W. bdy. of Tp. Monument said cor. at this point,
as hereinbefore described. This cor. point could not be
located by survey of the Tp. bdy, from the S.

Land, mountainous.
Soil, rocky, 4th rate.
Timber, dense pine, juniper and oak.
Undergrowth, dense scrub oak, manzanita, catclaw and cacti.
Fair grass.

N. 0° 2' W., bet. secs. 19 and 20.
Over mountainous land, thru. dense timber and undergrowth.

1.88 Descend 45 ft., over NW. slope.
Wash, 20 lks. wide, course NE.

7.00 Ascend 33 ft., over SE. slope.
Point of short spur, slopes E.

11.00 Descend 20 ft., over NE. slope.
Thence along E. slope.

20.00 Ascend 25 ft.
Spur, slopes NE.

27.60 Descend 135 ft., over NW. slope.
Wash, 20 lks. wide, course NE.

34.20 Ascend 80 ft., over SE. slope.
Point of spur, slopes E. from SW.

39.08 Descend 70 ft., over NE. slope.
Wash, 50 lks. wide, course E.

40.00 Ascend 23 ft., over SE. slope, to
Set an iron post, 3 ft. long, 1 in. in diam., 14 ins. in
the ground to bed rock, supported by a mound of stone,
for $\frac{1}{4}$ sec. cor., marked on brass cap,

$$\begin{array}{c} \frac{1}{4} \\ \hline S19 \quad S20 \end{array}$$

1921

from which,

A pine, 24 ins. in diam., brs. N. 64 $\frac{1}{2}$ ° E., 35 lks.
dist., marked $\frac{1}{4}$ S 20 BT.

A pine, 8 ins. in diam., brs. S. 69 $\frac{1}{2}$ ° W., 27 lks.
dist., marked $\frac{1}{4}$ S 19 BT.

40.95 Ascend 28 ft., over SE. slope.
Trail, brs. E. and W.

44.50 Point of spur, slopes E.
Descend 42 ft., over NE. slope.

45.88 Whitetail Creek, 30 lks. wide, course SE., containing a
small stream of water.

54.16 Ascend 127 ft., over SW. slope.
Point of spur, slopes SW.

58.00 Ascend 11 ft., over W. slope, to
Wash, course SW.

59.00 Ascend 15 ft., over SE. slope, to
Same wash, course SE.

61.00 Ascend 17 ft., over SW. slope, to
Same wash, course SW.

65.00 Ascend 57 ft., over SE. slope, to
Same wash, course S. 30° E.

80.00 Ascend 276 ft., over SW. slope, to
Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in
the ground, for cor. of secs. 17, 18, 19 and 20, marked
on brass cap,

$$\begin{array}{c} T16S \quad R30E \\ \hline S18 \quad S17 \\ \hline S19 \quad S20 \\ 1921 \end{array}$$

BOOK 3592

Subdivision lines of Township 16 South, Range 30 East. 71

Chains.

from which,

An oak, 12 ins. in diam., brs. N. $17\frac{1}{2}^{\circ}$ E., 26
lks. dist., marked T16S R30E S17 BT.An oak, 8 ins. in diam., brs. S. $53\frac{3}{4}^{\circ}$ E., 46
lks. dist., marked T16S R30E S20 BT.An oak, 3 ins. in diam., brs. S. $51\frac{1}{2}^{\circ}$ W., 88
lks. dist., marked BT.An oak, 6 ins. in diam., brs. N. 34° W., 41
lks. dist., marked T16S R30E S18 BT.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, dense cedar, pine, juniper and oak.

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

Fair grass.

- 40.00 N. $89^{\circ}58'$ E., on a random line, bet. secs. 17 and 20.
Set temp. $\frac{1}{4}$ sec. cor.
- 80.06 Intersect N. and S. line, 9 lks. S. of the cor. of secs. 16,
17, 20 and 21.
Thence,
S. $89^{\circ}54'$ W., on a true line, bet. secs. 17 and 20.
Over mountainous land, thru. dense timber and undergrowth.
- 17.70 Descend 481 ft., over SW. and W. slopes, to
Top of cliff, 60 ft. high, brs. N. and S. facing W.
- 31.75 Descend 555 ft., over W. slope.
Trail, brs. N. and S.
- 32.70 Indian Creek, 20 lks. wide, course S., containing a small
stream of water.
Ascend 95 ft., over E. slope.
- 37.00 Spur, slopes S.
Descend 23 ft., over W. slope, to
- 40.03 Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in
the ground to bed rock, supported by a mound of stone,
for $\frac{1}{4}$ sec. cor., marked on brass cap,

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

from which,

An oak, 8 ins. in diam., brs. N. $62^{\circ}34'$ E., 40
lks. dist., marked $\frac{1}{4}$ S 17 BT.An oak, 8 ins. in diam., brs. S. 13° W., 23 lks.
dist., marked $\frac{1}{4}$ S 20 BT.

- 42.25 Descend 52 ft., over W. slope.
Wash, course S. 25° E., containing a stream of running water
10 lks. wide, 4 ins. deep.
Ascend 427 ft., over NE. slope.
- 60.40 Descend 16 ft., over N. slope.
- 62.40 Ascend 110 ft., over NE. slope.
- 69.55 Ridge, brs. NW. and SE.
Descend 176 ft., over SW. slope, to
- 80.06 The cor. of secs. 17, 18, 19 and 20.
Land, mountainous.
Soil, rocky, 4th rate; limestone formation.
Timber, dense pine, oak, cedar and juniper.
Undergrowth, dense manzanita, catclaw and ironwood.
Fair grass.

- 40.00 West, on a random line, bet. secs. 18 and 19.
Set temp. $\frac{1}{4}$ sec. cor.
- 79.96 Intersect the cor. of secs. 13, 18, 19 and 24, on the W. bdy.
of the Tp., hereinbefore described.
Thence,
East, on a true line, bet. secs. 18 and 19.
Over mountainous land, thru. dense timber and undergrowth.

72 Subdivision lines of Township 16 South, Range 30 East.

Chains.	
12.45	Descend 100 ft., over SE. slope. Bonita Creek, course S., containing a small stream of running water.
12.95	Ascend 220 ft., over W. slope. Trail, brs. NE. and SW.
16.96	From this point, cor. No. 4 of Queen of Sheba, patented mill-site, Mineral Survey No. 1992 B, California Mining District, brs. South 0.37 chs. dist.
29.45	Ridge, brs. N. and S. Descend 140 ft., over NE. slope.
36.10	Ascend 57 ft., over NW. slope.
39.85	Point of spur, slopes N. Descend slightly over NE. slope, to
39.96	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,
	$\frac{1}{4} \text{ S } 18$ $\text{S } 19$ 1921
	from which, An oak, 12 ins. in diam., brs. N. 20° E., 30 lks. dist., marked $\frac{1}{4}$ S 18 BT. An oak, 6 ins. in diam., brs. S. 79° E., 20 lks. dist., marked $\frac{1}{4}$ S 19 BT.
49.95	Descend 355 ft., over NE. slope. Trail, brs. N. and S.
57.70	Whitetail Creek, course SE., containing a small stream of running water. Ascend 177 ft., over W. slope.
67.30	Spur, slopes SW. Descend 46 ft., over SE. slope.
72.80	Head of wash, course S. Ascend 131 ft., over W. slope.
78.45	Spur, slopes S. Descend 35 ft. over E. slope.
79.45	Wash, 10 lks. wide, course S. Ascend slightly over SW. slope, to
79.96	The cor. of secs. 17, 18, 19 and 20. Land, mountainous. Soil, rocky, 4th rate. Timber, dense oak, pine, juniper and cedar. Undergrowth, dense scrub oak, catclaw, manzanita, ironwood and cacti. Fair grass.

9.10	N. 0° 2' W., bet. secs. 17 and 18. Over mountainous land, thru. dense timber and undergrowth. Ascend 256 ft., over SW. slope.
23.30	Ridge, brs. NW. and SE. Descend 334 ft., over NE. slope.
23.53	Trail, brs. NW. and SE. Gulch, 10 lks. wide, course S.
31.80	Ascend 277 ft., over SW. slope. Spur, slopes SE.
40.00	Descend 60 ft., over NE. slope, to 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,
	$\frac{1}{4} \text{ S } 18 \text{ S } 17$ 1921
	from which, An oak, 6 ins. in diam., brs. S. 2° E., 57 lks. dist., marked $\frac{1}{4}$ S 17 BT. An oak, 12 ins. in diam., brs. S. 84° W., 33 lks. dist., marked $\frac{1}{4}$ S 18 BT.

Subdivision lines of Township 16 South Range 30 East 73

Chains.

- 40.95 Descend 20 ft. over NE. slope.
- 54.94 Gulch, course SE. Ascend 722 ft., over SW. slope.
- 69.52 From this point, the South end center monument of the King of Lead patented lode mining claim, Mineral Survey No. 3099, California Mining District, which is a juniper post, 6 ins. in diam., marked 3099 SCE-KL brs. Last 0.47 chs. dist.
- 71.67 Spur, ridge, brs. NW. and SE., sloping SE. Trail, brs. NE. and SW. Ascend 20 ft., to Point of short spur, slopes E.
- 74.90 Descend 37 ft., over NE. slope.
- 77.85 Ascend 35 ft., over SE. slope.
- 78.22 Descend 36 ft. over NE. slope to sec. cor.
- 80.00 Same trail, brs. NW and SE. Set an iron post, 3 ft. long, 2 ins. in diam., 10 ins. in the ground to bed rock, supported by a mound of stone, for cor. of secs. 7, 8, 17 and 18, marked on brass cap,

T16S	R30E
S 7	S 8
S18	S17

 1921

- from which,
- A juniper, 10 ins. in diam., brs. N. 61° E., 90 lks. dist., marked T16S R30E S8 BT.
- An oak, 12 ins. in diam., brs. S. 40° E., 41 lks. dist., marked T16S R30E S17 BT.
- An oak, 10 ins. in diam., brs. S. 21° W., 47 lks. dist., marked T16S R30E S18 BT.
- An oak, 14 ins. in diam., brs. N. 40° W., 27 lks. dist., marked T16S R30E S7 BT.

Land, mountainous.
 Soil, rocky, 4th rate, limestone formation.
 Timber, dense pine, juniper and cedar.
 Undergrowth, dense scrub oak, ironwood, tesota and cacti.
 Fair grass.

-
- 40.00 N. 89° 54' E., on a random line, bet. secs. 8 and 17. Set temp. $\frac{1}{4}$ sec. cor.
 - 80.02 Intersect N. and S. line, 23 lks. N. of the cor. of secs. 8, 9, 16 and 17.
 - Thence, N. 89° 56' W., on a true line, bet. secs. 8 and 17. Over mountainous land, thru dense timber and undergrowth. Ascend 470 ft. over NE. and E. slopes.
 - 13.40 Ridge, brs. N. and S.
 - 39.27 Descend 1035 ft. over W. slope, to Set an iron post, 3 ft. long, 1 in. in diam., on bed rock, supported by a mound of stone, for witness cor. to $\frac{1}{4}$ sec. cor., marked on brass cap,

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

 1921

- from which,
- A juniper, 12 ins. in diam., brs. N. 38° E., 15 lks. dist., marked WC $\frac{1}{4}$ S 8 BT.
- An ironwood, 4 ins. in diam., brs. S. 33° E., 140 lks. dist., marked WC $\frac{1}{4}$ BT.

- 40.01 Descend 237 ft., over W. slope. The true point for $\frac{1}{4}$ sec. cor. falls on almost vertical slope, where the cor. cannot be monumented.
- 45.25 Dry bed of Indian Creek, in bottom of canyon course S. Ascend 875 ft., over E. slope.
- 69.20 Spur, slopes SE.

74. Subdivision lines of Township 16 South, Range 30 East.

Chains.	
78.15	Descend 117 ft., over SW. slope. Gulch, course SE.
80.02	Ascend 52 ft., over NE. slope, to The cor. of secs. 7, 8, 17 and 18. Land, mountainous. Soil, rocky, 4th rate. Timber, dense oak, pine and juniper. Undergrowth, dense scrub oak, ironwood, tesota and cacti. Fair grass.
40.00	West, on a random line, bet. secs. 7 and 18. Set temp. $\frac{1}{4}$ sec. cor.
79.82	Intersect the cor. of secs. 7, 12, 13 and 18, on W. bdy. of the Tp., hereinbefore described.
1.00	Thence, East, on a true line, bet. secs. 7 and 18. Over mountainous land, thru. dense timber and undergrowth.
10.50	Ascend 53 ft., over W. slope. Spur, slopes S. Descend 245 ft., over E. slope.
39.82	Gulch, course S. Ascend 575 ft., over SW. slope, to 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,
	$\frac{1}{4} \begin{array}{l} S \ 7 \\ S \ 18 \\ 1921 \end{array}$
	from which, A juniper, 12 ins. in diam., brs. N. $42\frac{1}{2}^{\circ}$ W., 27 lks. dist., marked $\frac{1}{4}$ S 7 BT. A pine, 14 ins. in diam., brs. S. 16° W., 82 lks. dist., marked $\frac{1}{4}$ S 18 BT.
41.55	Ascend 30 ft., over SW. slope. Spur, slopes S.
53.05	Descend 235 ft., over E. slope. Gulch, course S.
62.00	Ascend 310 ft., over SW. slope. Ridge, brs. N. and S. From this point, U.S. L.M. No. 1992, California Mining Dis- trict; which is a juniper post, 6 ins. in diam., set in a mound of stone, 8 ft. base, $5\frac{1}{2}$ ft. high, brs. N. 66° $32'$ W., 20.40 chs. dist.
68.80	Descend 58 ft., over SE. slope. Ascend 54 ft., over SW. slope.
74.20	Spur ridge, brs. N. and S. sloping S. Descend 131 ft., over E. slope to sec. cor.
77.80	Trail, brs. N. and S.
79.82	The cor. of secs. 7, 8, 17 and 18. Land, mountainous. Soil, rocky, 4th rate. Timber, dense juniper, cedar, oak and pine. Undergrowth, dense scrub oak, manzanita, catclaw, tesota and cacti. Fair grass.
1.46	N. 0° 2' W., bet. secs. 7 and 8. Over mountainous land, thru. dense timber and undergrowth.
5.18	Descend 20 ft., over NE. slope. Gulch, course SE. near head.
9.20	Ascend 122 ft., over SW. slope. Trail, brs. NE and SW.
	Spur, slopes SE. Descend 37 ft., over E. slope.

Chains.
 9.80 Same trail, brs. NW and SE.
 10.85 Spur, slopes NE, over S. slope,
 Descend 369 ft.; over NW. slope.
 20.59 Gulch, course NE.
 Ascend 50 ft., over SE. slope.
 28.78 Spur, slopes NE.
 Descend 150 ft., over NW. slope.
 32.32 Wash, 10 lks. wide, in gulch, course NE.
 Ascend 82 ft., over SE. slope.
 34.97 Point of spur, slopes E.
 Descend 150 ft., over NE. slope, to
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 24 ins. in
 the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$
 S 7 | S 8
 1921

from which,

An oak, 10 ins. in diam., brs. N. 55° E., 6 lks.
 dist., marked $\frac{1}{4}$ S 8 BT.

An oak, 8 ins. in diam., brs. N. 88° W., 10 lks.
 dist., marked $\frac{1}{2}$ S 7 BT.

Descend slightly over NE. slope.

40.50 Wash, 50 lks. wide, in gulch, course SE.

Ascend 250 ft., over S. slope.

51.34 Point of spur, slopes SE.

Descend 162 ft., over NE. slope.

56.57 Wash, 10 lks. wide, in gulch, course E.

Ascend 375 ft., over SE. slope, to

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in
 the ground for cor. of secs. 5, 6, 7 and 8, marked on
 brass cap,

T16S	R30E
S 6	S 5
S 7	S 8

 1921

from which,

A juniper, 4 ins. in diam., brs. N. 56 $\frac{1}{2}$ ° E., 13 lks.
 dist., marked BT.

A pine, 10 ins. in diam., brs. S. 74° E., 78 lks.
 dist., marked T16S R30E S8 BT.

A pine, 14 ins. in diam., brs. S. 15 $\frac{1}{2}$ ° W., 98 lks.
 dist., marked T16S R30E S7 BT.

An oak, 3 ins. in diam., brs. N. 87° W., 49 lks.
 dist., marked BT.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, dense oak, pine, cedar and juniper.

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

Fair grass.

S. 89° 56' E., on random line, bet. secs. 5 and 8.

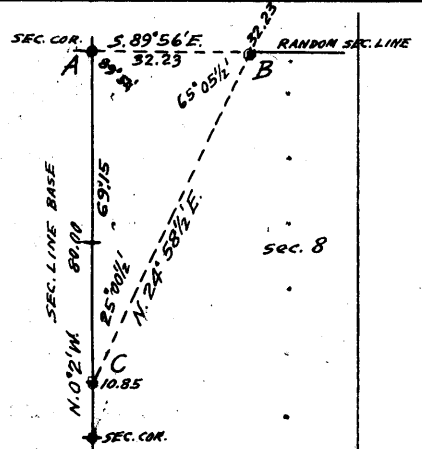
This line passes over a high mountain, known as Cochise
 Head, and the slopes on each side are too precipitous
 and broken to permit of any chaining; therefore, obtain
 the measurement of the entire line by triangulation
 and stadia, as described as follows, and as shown on
 the diagrams hereon:

From cor. of secs. 5, 6, 7 and 8, indicated on diagram
 at "A" line in a flag, S. 89° 56' E. on random
 line at "B,"

76 Subdivision lines of Township 16 South, Range 30 East.

chains.

From 10.85 ch. point on line, bet. secs. 7 and 8, indicated on diagram at "C," the flag "B" bears N. 24° 58' E.
 The Base "A-C" is therefore S. 0° 2' W., 69.15 chs.
 Vertical angle from "A" to "B" is +30°.
 Included angles of triangle "A-B-C" are 89° 54', 65° 05' and 25° 00', the sum of which is 180° 00'.



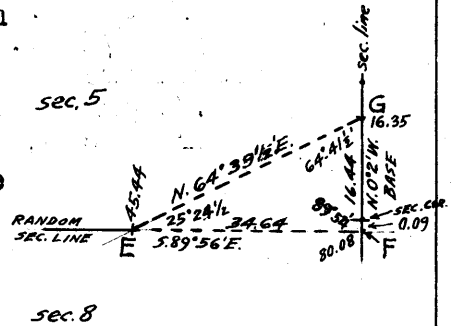
Triangulated measurement of "A-B" is obtained by
 $\frac{\text{Sine } 25^{\circ} 00' \times \text{Base}}{\text{sine } 65^{\circ} 05'}$ or $\frac{.42275 \times 69.15}{.90698} = 32.23$ chs.

32.23 Triangulation point on spur, sloping NW.
 Thence by stadia measurement as follows:
 Mean of three rod readings, 6.695 ft. Vertical angle +7°.
 The distance to rod is therefore 13.21 chs., which, added to 32.23 chs. gives 45.44 chs. S. 89° 56' E. from cor. of secs. 5, 6, 7 and 8 for the position of rod point on random sec. line.

40.00 Point for temp. 1/4 sec. cor. falls in an inaccessible position.

45.44 Rod point of stadia measurement, described above. This being the nearest accessible point to the 1/4 sec. cor. point, set temp. witness cor. to 1/4 sec. cor. here.
 Thence by triangulated measurement as follows:

From stadia rod point indicated on diagram at "E," line in a flag, S. 89° 56' E., at point "F,"
 Point "F" is 9 lks. S. of the cor. of secs. 4, 5, 8 and 9; therefore the true bearing of the sec. line bet. secs. 5 and 8 is West.



Set flag at 16.35 ch. station on line, bet. secs. 4 and 5, indicated on diagram at "G," which gives a Base "F-G" of N. 0° 2' W., 16.44 chs.

Bearing of "E-G" = N. 64° 39' E.
 Vertical angle from "E" to "F" is +31°
 Included angles of triangle "E-F-G" are 25° 24', 89° 54' and 64° 41', the sum of which is 180° 00'.

Triangulated measurement of "E-F" is obtained by
 $\frac{\text{sine } 64^{\circ} 35' \times \text{Base}}{\text{sine } 25^{\circ} 23'}$ or $\frac{.90321 \times 16.44}{.42867} = 34.64$ chs., which

80.08 added to 45.44 chs. gives 80.08 chs. the total length of the sec. line, bet. secs. 5 and 8.
 Intersect N. and S. line. 9 lks. S. of the cor. of secs. 4, 5, 8 and 9.

Thence, West, on a true line, bet. secs. 5 and 8:
 Over mountainous land, thru dense timber and undergrowth. Measurement of entire line by triangulation and stadia, as hereinbefore described.

34.64 Ascend 1373 ft., over rugged broken, SE. and E. slopes, to Triangulation point on brow of Cochise Head. Set an iron post, 3 ft. long, 1 in. in diam., wedged into a crevice in bed rock, supported by a mound of stone, for witness cor. to 1/4 sec. cor., marked on brass cap,

WC 1/4 S 5
 S 8
 1921

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

Thence measure by stadia across depression between the

Subdivision lines of Township 16 South, Range 30 East.

Chains.

Brow and Nose of Cochise Head.
 Descend about 200 ft. over W. slope.
 40.04 The true point for $\frac{1}{4}$ sec. cor. falls in crevice, and is inaccessible.
 43.00 (Approximate) Bottom of depression, brs. NW. and SE.
 Ascend about 95 ft., over NE. slope, to
 47.84 Stadia and triangulation point on Cochise Nose, sloping NW.
 From this point, U.S.G.S.B.M., elevation 8115 ft. brs. NW.
 about 6 ch. dist., on tip of nose. Thence by triangulated measurement to sec. cor.
 Descend over precipitous W. and SW. slopes, to
 65.00 (Approximate) Thence over steep S. slope, descending to
 80.08 The cor. of secs. 5, 6, 7 and 8, about 1230 ft. below Cochise Nose.
 Land, mountainous.
 Soil, 4th rate.
 Timber, dense yellow pine, Douglas fir, oak and juniper.
 Undergrowth, dense manzanita, scrub oak, catclaw and cacti.
 Fair grass.

 West, on a random line, bet. secs. 6 and 7.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.76 Fall 19 lks. S. of the cor. of secs. 1, 6, 7 and 12, on the W. bdy. of the Tp., hereinbefore described.
 Thence,
 S. 89° 52' E., on a true line, bet. secs. 6 and 7.
 Over mountainous land, thru. dense timber and undergrowth.
 Ascend 140 ft., over NW. slope.
 4.60 Spur, slopes NE.
 Descend 202 ft. over E. slope.
 10.85 Gulch, course N.
 Ascend 135 ft., over NW. slope.
 14.75 Spur, slopes N.
 Descend 225 ft., over E. slope.
 21.10 Head of gulch, course NE.
 Ascend 80 ft., over NW. slope.
 27.50 Spur, slopes NE.
 Descend 240 ft., over E. slope.
 37.25 Trail, brs. N. and S.
 37.85 Bottom of wood canyon, 1 ch. wide, course N.
 Ascend 40 ft., over NW. slope, to
 39.76 Set an iron post, 3 ft. long, 1 in. in diam., 15 ins. in the ground to bed rock, supported by a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$ S 6
 S 7
 1921

from which,
 An oak, 15 ins. in diam., brs. N. 37° E., 40 lks. dist., marked $\frac{1}{4}$ S 6 BT.
 An oak, 12 ins. in diam., brs. S. 3° E., 12 lks. dist., marked $\frac{1}{4}$ S 7 BT.
 Ascend 600 ft., over NW. slope.
 78.75 Ridge, brs. NE and SW.
 Descend 10 ft., over SE. slope, to
 79.76 The cor. of secs. 5, 6, 7 and 8.
 Land, mountainous.
 Soil, rocky, 4th rate,
 Timber, dense pine, oak and juniper.
 Undergrowth, dense manzanita, scrub oak, catclaw and cacti.
 Fair grass.

78 Subdivision lines of Township 16 South, Range 30 East.

Chains.

- N. 0° 2' W. on true line, bet. secs. 5 and 6.
Over mountainous land, thru. scattering timber and dense undergrowth.
- 2.50 Ascend 37 ft., over SE. slope.
Ridge, brs. NE. and SW.
- 32.35 Descend 715 ft., over NW. and N. slopes.
Wash, 20 lks. wide in gulch, course NW.
- 40.00 Ascend 65 ft., over W. slope, to
Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground to bed rock, supported by a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,
- $\frac{1}{4}$
S 6 | S 5
1921
- from which,
An oak, 12 ins. in diam., brs. S. 30° E., 59 lks. dist., marked $\frac{1}{4}$ S 5 BT.
An oak, 4 ins. in diam., brs. S. 86° W., 17 lks. dist., marked BT.
- 42.00 Descend 30 ft., over NW. slope.
Wash, 40 lks. wide, in gulch, course W.
- 52.00 Ascend 195 ft., over SW. slope.
Ridge, brs. NW. and SE.
- 56.70 Descend 190 ft., over N. slope.
Head of gulch, course NE.
- 60.90 Ascend 12 ft., over SE. slope.
Point of spur, slopes E.
- 95.74 Descend 865 ft., over NE. and E. slopes, to
Intersect the Third Standard Parallel South, 8.26 chs.
West of the standard $\frac{1}{4}$ sec. cor. of sec. 32, T. 15 S., R. 30 E., reestablished by W. B. Kimmel, U. S. S. in 1914, which is an iron post, 1 in. in diam., projecting 18 ins. above ground, firmly set in ground and mound of stone, properly marked on brass cap, and witnessed by two properly marked bearing trees, as follows:

An oak, N. 81° E., 54 lks. dist.
An oak, N. 69° W., 22 lks. dist.

At point of intersection,
Set an iron post, 3 ft. long, 2 ins. in diam., 6 ins. in the ground to bed rock, supported by a mound of stone for closing cor. of secs. 5 and 6, marked on brass cap,

T15S R30E
S32
S 6 | S 5
T16S R30E
C C
1921

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

Land, mountainous.
Soil, rocky, 4th rate; limestone formation.
Timber, scattering oak, pine and juniper.
Undergrowth, dense scrub oak, ironwood, catclaw, locust and cactus.
Fair grass.

Final field test of Young & Sons Light Mountain Transit No. 8487 by Benjamin J. Kinney, U. S. T.

Sept. 17, 1921. At camp, near the cor. of secs. 27, 28,

33 and 34, T.16 S., R.30 E., Gila and Salt River Base and Meridian, Arizona, in lat. $32^{\circ}00'N.$, long. $109^{\circ}16\frac{1}{2}'W.$, at 7h.50.7m. p.m., l.m.t., I observe Polaris at Eastern elongation, making four observations, two each with the telescope, in direct and reversed positions, and mark the mean point on the line thus determined by a tack in a stake driven firmly in the ground, 5 chs. N.

Azimuth of Polaris at Eastern elongation = $1^{\circ}19'00''$.

Sept. 18, 1921. At 8h. 0m., a.m., l.m.t., I lay off the azimuth of Polaris $1^{\circ}19'$ to the West, and mark the true meridian thus determined by a tack in a stake driven firmly in the ground 5 chs. N.

At 9h. 0m., a.m., l.m.t., I set off $32^{\circ}00'N.$ on the lat. arc; $1^{\circ}55\frac{1}{2}'N.$ on the decl. arc, and determine a meridian with the solar, which agrees with the true meridian.

At apparent noon, with the lat. arc unchanged, I observe the sun on the meridian; the resulting reading of the decl. arc is $1^{\circ}52'N.$, which agrees with the computed decl. of the sun.

At 3h. 0m. p.m., l.m.t., with the lat. arc unchanged, I set off $1^{\circ}49\frac{1}{2}'N.$ on the decl. arc, and determine a meridian with the solar, which agrees with the true meridian.

From the results of the above described observations, it is evident that the transit is in satisfactory adjustment.

GENERAL DESCRIPTION.

This township is situated in Cochise county, Arizona, about 10 miles west from the east bdy. of the State. The summit of the main ridge of the Chiricahua mountains forming divide between the Sulphur Springs and San Simon valleys, bearing NW and SE. passes thru. the western part of the Tp.

The top of a mountain in secs. 5 and 8 reaches an elevation of 8100 ft. which is the highest in the township. The greater part of the township drains east and northeast into the San Simon Valley. A small portion of the southwestern part drains west into the Sulphur Springs valley.

The west four ranges of sections, and about one-fourth of the area of the east two ranges has a mountainous surface. The greater part of the east two ranges of sections has a gently rolling or nearly level surface, being at the west edge of the San Simon valley.

The soil over the greater part of the township is rocky, 4th rate. Parts of secs. 25 and 36 have a coarse sandy black loam, 1st rate, and in the remainder of the east two ranges of sections, the soil is sandy, gravelly and rocky, 2nd, 3rd and 4th rate.

All of this township, except the east range of sections, the east halves of secs. 2, 11, 14, 23 and 26, and the NE $\frac{1}{4}$ of section 35, is within the Coronado National Forest reserve, formerly named and surveyed as the Chiricahua National Forest.

The timber, consisting of pine, cedar, juniper, oak and mesquite is dense in the west four ranges.

There is no timber in the east two ranges of sections, except a scattering fringe along some of the creeks and washes.

A dense undergrowth of catclaw, ironwood, scrub mesquite,

scrub oak, greasewood, tesota, manzanita and cacti is prevalent in all but the south half of the two east ranges of sections, where the same varieties of undergrowth occur in a scattering growth:

There is no permanent running water in any of the water courses, tho. at the time of this survey, several of the creeks contained small streams. There is a spring on line bet. secs. 24 and 25, and another in sec. 25.

There are several wells in various parts of the township.

A good growth of grass is prevalent in the east two ranges of sections, and a fair growth of grass elsewhere.

There are valuable mineral deposits as evidenced by patented mining claim in secs. 7, 17, 18, 27, 28, 29, 33 and 34.

The mining town of Hilltop is located in sec. 33, where there are improvements, consisting of houses, store and school house. There are settlers in sections 11, 23, 25, 29, 34 and 35, with improvements such as houses, barns, fences, wells, cultivated fields and orchards.

A road extends from the town of Hilltop easterly along the Whitetail wash, thru. the San Simon Valley to points in New Mexico. Another road from Hilltop crosses the main ridge of the Chiricahua mountains in sec. 32, and extends westerly into the Sulphur Springs valley. A number of other roads connect the ranches in the eastern part.

A telephone line extends thru. the east half of the township.

CERTIFICATE OF UNITED STATES TRANSITMAN.

BOOK 3592

I, Benjamin J. Kinsey, U.S. Transitman, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General, for Group 111, Arizona, bearing date of the 16th day of November, 1920, I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, retraced all those parts or portions of the 3rd. Standard Parallel South, in Range 31 East, and Resurveyed all those parts or portions of the East bdy. of Township 16 South, Range 30 East, and Surveyed all those parts or portions of the South and West boundaries, and Sub-division lines of TOWNSHIP 16 SOUTH, RANGE 30 EAST,

of the Gila and Salt River Base and Meridian, in the State of Arizona, which are represented in the foregoing field notes and by diagram on page 1 hereof as having been executed by me, and under my direction; and that all the corners of said retracement, resurvey and survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General, for Group 111, Arizona, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such retracement, resurvey and survey.

Place: Phoenix, Arizona
Date: May 17th 1923.

Benjamin J. Kinsey
U.S. Transitman

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona, JUN 7, 1923.

The foregoing field notes of the survey of retracement of 3rd. Std. Parallel S., thru part of Range 31 East, and of the Resurvey of the East bdy. of Township 16 South, Range 30 East; and of the Survey of the South and West Boundaries, and Subdivision lines of TOWNSHIP 16 SOUTH, RANGE 30 EAST,

of the Gila and Salt River Base and Meridian, in the State of Arizona, executed by Benjamin J. Kinsey, U. S. Transitman,

under his special instructions dated November 16, 1920, for Group 111, Arizona, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the retracements, resurvey and surveys they describe, are hereby approved.

Frank O. Frost
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.