

3676

Book "L"

BOOK 3676

## FIELD NOTES

OF THE RESURVEY OF

Part of the West boundary of T. 12 S., R. 9 E., and

Part (S. 3) of the East boundary of T. 12 S., R. 8 E.,

AND OF THE SURVEY OF

Part (S. 3) of West boundary, and

Part of the Subdivision lines of

TOWNSHIP 12 SOUTH, RANGE 8 EAST.

Of the Gila and Salt River Base and Meridian,

In the State of Arizona.

EXECUTED BY

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

and

Charles E. Hunter, U. S. Transitman,

In the capacity of U. S. Surveyors, under Special Instructions dated September 25, 1919  
 issued by the United States Surveyor General to govern surveys included in Group  
 No. 100, Arizona, which were approved by the Commissioner of the General Land  
 Office, October 22, 1919, and Assignment Instructions dated December 1, 1924.

Resurvey and Survey commenced February 11, 1925.

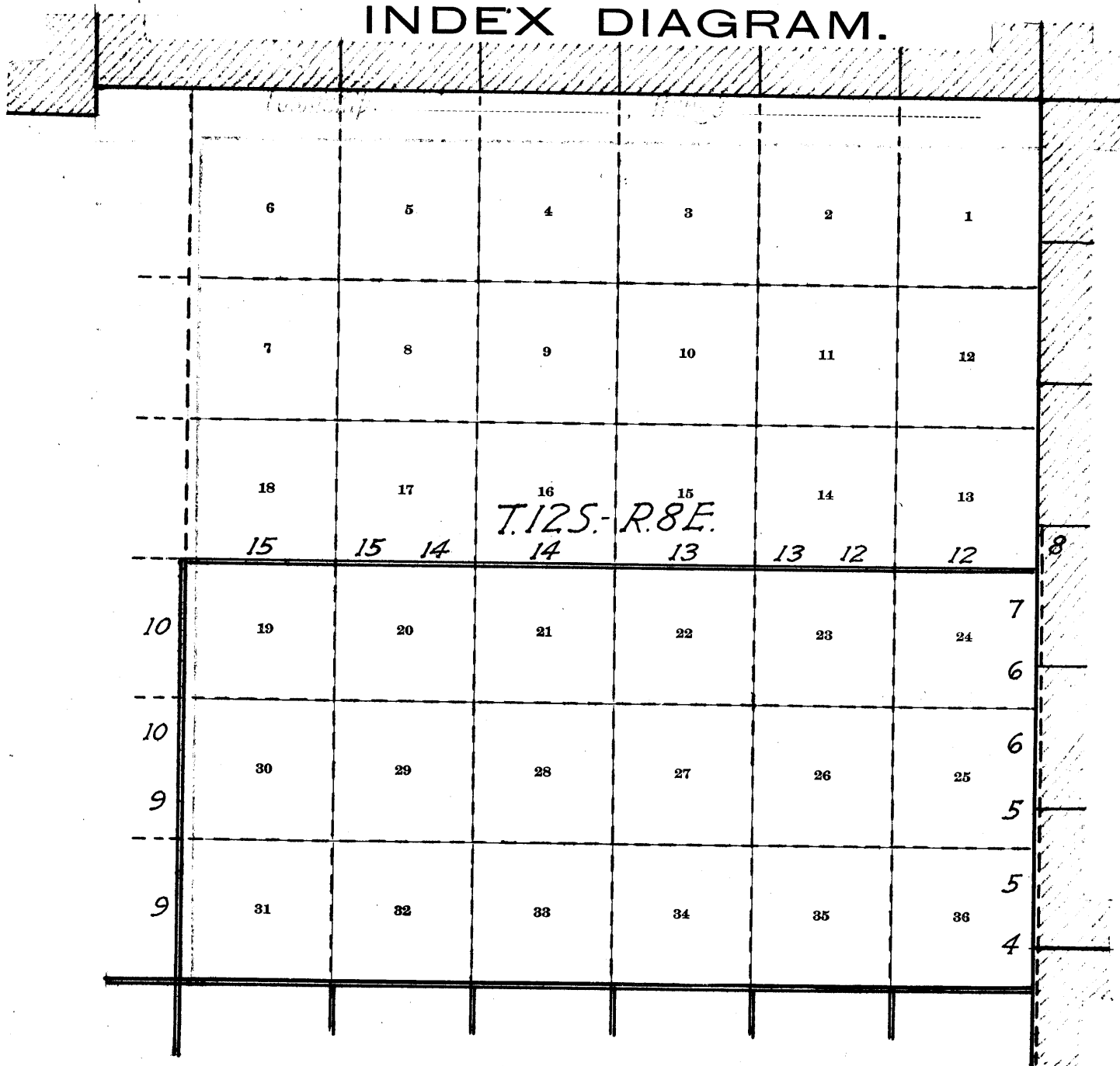
Resurvey and Survey completed February 13, 1925.

1A

Book "L"  
Group 100 - Arizona.

**BOOK 3676**

# INDEX DIAGRAM.



~~\_\_\_\_\_~~ Lines surveyed under this group.

~~=====~~ Lines resurveyed under this group.

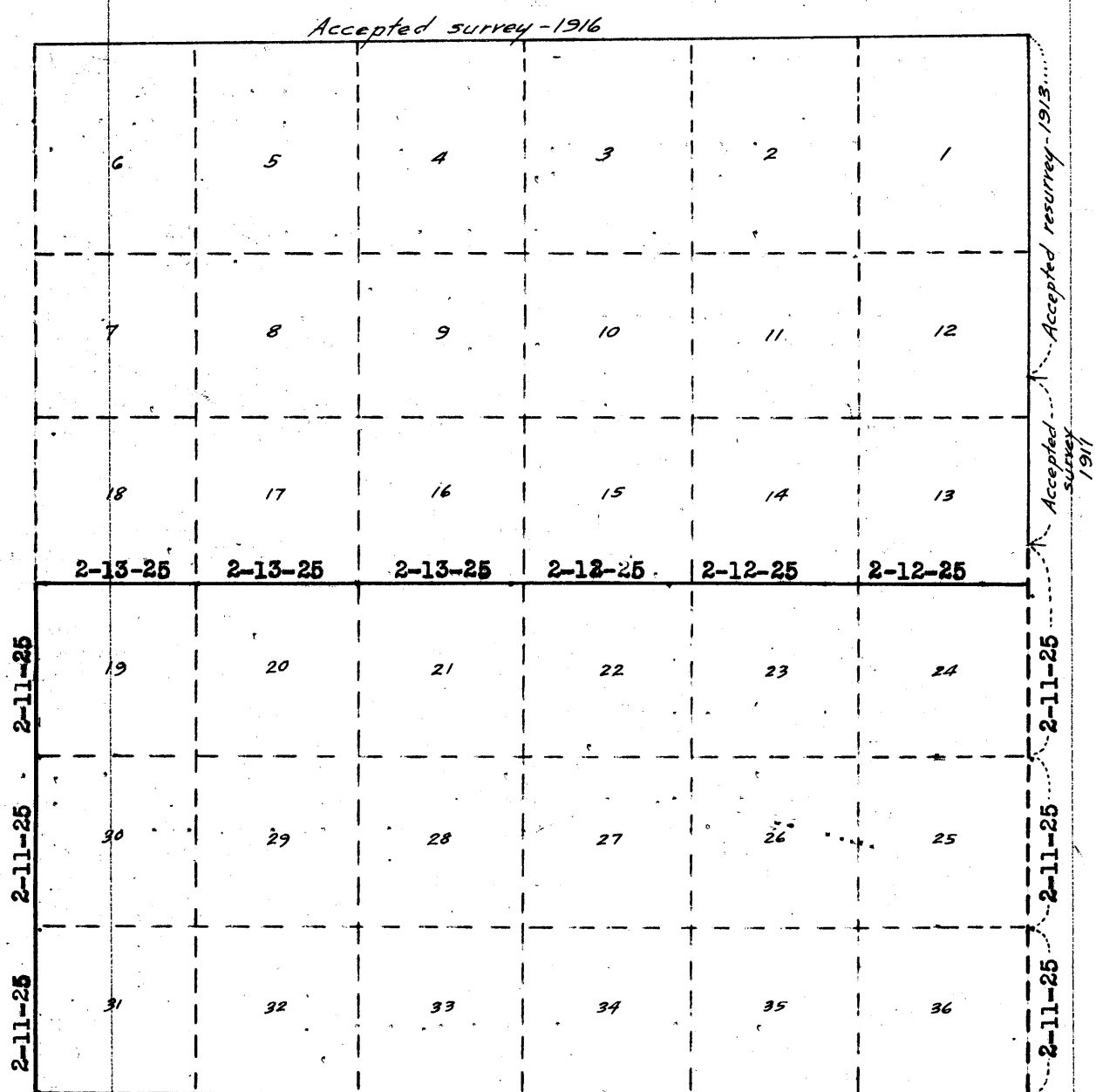
Accepted surveys.

----- Unsurveyed.

Areas surveyed as per accepted plats on file.

Book "L"  
Group 100 - - - Arizona.  
Township 12 South, Range 8 East.

DATE DIAGRAM.



*for dates of survey of this line see Book "K"*

- Indicates lines surveyed by William H. Thorn, U.S.C.E. on dates shown thereon.
- Indicates lines surveyed by Charles E. Hunter, U.S.T., on dates shown thereon.
- Indicates lines resurveyed by Charles E. Hunter, U.S.T., on dates shown thereon.

Resurveys and surveys hereinafter described were executed on dates shown on diagram on page 1 hereof, by William H. Thorn, U.S. Cadastral Engineer, and Charles E. Hunter, U. S. Transitman, using respectively, Young and Sons Transit No. 8592, and Buff and Buff Transit No. 10125.

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FIELD TEST OF YOUNG AND SONS TRANSIT NO. 8592, BY WILLIAM H. THORN, U.S. CADASTRAL ENGINEER.

Examine the adjustment of the instrument, and find no errors; then, to test the solar apparatus by comparing its indications resulting from observations made during a.m. and p.m. hours with a meridian established by Polaris observation by Charles E. Hunter, U.S. Transitman, at camp, near the center of section 16, T. 13 S., R. 8 E., G. and S.R.B. and M., Arizona, in latitude  $32^{\circ}17\frac{1}{2}'N.$ ; longitude,  $111^{\circ}32'W.$ , as described below, proceed as follows:

February 8, 1925, at 9h. Om. a.m. l.m.t., set off  $32^{\circ}17\frac{1}{2}'N.$  on the lat. arc;  $14^{\circ}58'S.$  on the decl. arc, and determine a meridian with the solar.

At 3h. Om. p.m., l.m.t., set off  $32^{\circ}17'N.$  on the lat. arc;  $14^{\circ}53\frac{1}{2}'S.$  on the decl. arc, and determine a meridian with the solar.

As the three meridians agree within  $1\frac{1}{2}'$  of arc, conclude that the instrument is in satisfactory adjustment.

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FIELD TEST OF BUFF AND BUFF TRANSIT NO. 10125, BY CHARLES E. HUNTER, U.S. TRANSITMAN.

Examine the adjustment of the instrument, and find no errors; then, to test the solar apparatus by comparing its indications resulting from observations made during a.m. and p.m. hours with a meridian established by Polaris observation, proceed as follows:

February 4, 1925, at camp, near the center of sec. 16, T. 13 S., R. 8 E., G. and S.R.B. and M., Arizona, in lat.  $32^{\circ}17\frac{1}{2}'N.$  long.,  $111^{\circ}32'W.$ , at 10h. 32m. p.m., l.m.t. observe Polaris at western elongation, making four observations, two each with the telescope in direct and reversed positions, mark the mean point in the line thus determined on a wooden peg driven firmly in the ground, 20 chs. N. of the station.

Azimuth of Polaris at western elongation =  $1^{\circ}17'36''$ .

February 8, 1925. At 8h. Om. a.m., l.m.t., lay off the azimuth of Polaris  $1^{\circ}17'$  to the east, and mark the meridian thus determined by a tack in a peg driven firmly in the ground 20 chs. north.

At 9h. Om. a.m., l.m.t., set off  $32^{\circ}17\frac{1}{2}'N.$  on the lat. arc;  $14^{\circ}58'S.$  on the decl. arc, and determine a meridian with the solar.

At 3h. Om. p.m., l.m.t., set off  $32^{\circ}17\frac{1}{2}'N.$  on the lat. arc;  $14^{\circ}53\frac{1}{2}'S.$  on the decl. arc, and determine a meridian with the solar.

As the three meridians agree within  $1\frac{1}{2}'$  of arc, conclude that the instrument is in satisfactory adjustment.

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

Chains.

The East bdy. of T.12 S., R.8 E., was surveyed in January 1911, by W.F. DuVal, U.S.D.S., establishing all sec. and  $\frac{1}{4}$  sec. cor. monuments thereon, with a common reference to areas on both sides of the line.

The South two miles and the North two miles of the line were resurveyed by J.B. Wright and W.H. Elliott, U.S. Surveyors, in Sept. and Oct., 1913, retaining the original reference to the cor. monuments thereon.

No other resurvey and no retracement of the lines is of record.

In view of the fact that the resurvey of the East bdy. of T.13 S., R.8 E. as described in Book "K" of this group, reestablishes the cor. of Ts.12 and 13 S., R.8 E. on the range line at 22.74 chs. S.0°1'W. from the original cor. of Ts.12 and 13 S., Rs.8 and 9 E., the said original Tp. cor., and all the existing sec. and  $\frac{1}{4}$  sec. cors. on the range line in T.12 S. will now refer to areas E. of the range line only, and a new set of cors. will be required for reference to areas in T.12 S., R.8 E. only.

The following notes describe a resurvey of the S.  $\frac{1}{2}$  of the East bdy. of T.12 S., R.8 E., which portion of the range line forms a part of the boundary of the Papago Indian Reservation, all of the S.  $\frac{1}{2}$  of said township being within said reservation.

In this resurvey, the  $\frac{1}{4}$  sec. and sec. cors. referring to the areas W. of the line only are reestablished on the range line alternately at intervals of 40.00 chs., counting from the cor. of Ts.12 and 13 S., R.8 E., and the original Tp. cor., and the original sec. and  $\frac{1}{4}$  sec. cors. on the range line in the S.  $\frac{1}{2}$  of W. bdy. of T.12 S., R.9 E. are properly changed to refer to areas E. of the line only.

Preliminary to the resurvey of the S.  $\frac{1}{2}$  of E. bdy. of T.12 S., R.8 E., a retracement of the S.  $\frac{1}{2}$  of W. bdy. of T.12 S., R.9 E. is made to determine the several bearings upon which this resurvey is dependent.

Retracement for Resurvey.

From the original cor. of Ts.12 and 13 S., Rs.8 and 9 E., hereinafter described,

40.00 North, on random line, on W. bdy. of sec.31 (S.  $\frac{1}{2}$ ).  
Intersect the original  $\frac{1}{4}$  sec. cor. of secs.31 and 36, hereinafter described.  
True course and dist. of S.  $\frac{1}{2}$  of W. bdy. of sec.31 are therefore, North, 40.00 chs.

Thence,  
40.00 North, on random line, on W. bdy. of sec.31 (S.  $\frac{1}{2}$ ).  
Intersect the original  $\frac{1}{4}$  sec. cor. of secs.31 and 36, hereinafter described.  
True course and dist. of S.  $\frac{1}{2}$  of W. bdy. of sec.31 are therefore, North, 40.00 chs.

Thence,  
40.09 North, on random line, on W. bdy. of sec.31 (N.  $\frac{1}{2}$ ).  
Fall 4 lks. E. of the previously reestablished cor. of secs.25,30,31 and 36, hereinafter described.  
True course and dist. of N.  $\frac{1}{2}$  of W. bdy. of sec.31 are therefore, N.0°3'W., 40.09 chs.

39.99 North, on random line, on W. bdy. of sec.30 (S.  $\frac{1}{2}$ ).  
Fall 4 lks. W. of the original  $\frac{1}{4}$  sec. cor. of secs.25 and 30, hereinafter described.  
True course and dist. of S.  $\frac{1}{2}$  of W. bdy. of sec.30 are therefore, N.0°3'E., 39.99 chs.

42.35 Thence,  
North, on random line, on W. bdy. of sec.30 (N.  $\frac{1}{2}$ ).  
Fall 2 lks. W. of the original cor. of secs. 19,24,25 and

## BOOK 3676

4 Resurvey of S.  $\frac{1}{2}$  of East bdy. of Township 12 S., R. 8 E.

Chains.

30, hereinafter described.

True course and dist. of N.  $\frac{1}{2}$  of W. bdy. of sec. 30 are therefore, N.  $0^{\circ}2'E.$ , 42.35 chs.

39.98 North, on random line, on W. bdy. of sec. 19 (S.  $\frac{1}{2}$ ).  
Intersect the original  $\frac{1}{4}$  sec. cor. of secs. 19 and 24, hereinafter described. True course and dist. of S. half of W. bdy. of sec. 19 are therefore, North, 39.98 chs.  
40.00 Thence, North, on random line, on W. bdy. of sec. 19 (N.  $\frac{1}{2}$ ).  
Fall 7 lks. W. of the original cor. of secs. 13, 18, 19 and 24, hereinafter described.  
True course and dist. of N.  $\frac{1}{2}$  of W. bdy. of sec. 19 are therefore, N.  $0^{\circ}6'E.$ , 40.00 chs.

RESURVEY.

From the reestablished cor. of Ts. 12 and 13 S., R. 8 E., described in Book "K," of this group,  
N.  $0^{\circ}1'E.$ , on true line, on E. bdy. of sec. 36.  
Over nearly level land, thru scattering timber and dense undergrowth.  
Ascend slightly over SE. slope.  
2.47 Road bears E. and W. Extends southeasterly to Tucson.  
22.74 Intersect the original cor. of Ts. 12 and 13 S., Rs. 8 and 9 E., which is a granite stone 8x6x6 ins. above ground, firmly set, marked with 6 notches on each of E., W., N. and S. edges, and witnessed by a mound of stone W. of cor. No bearing trees.  
Change this cor. monument to refer to Ts. 12 and 13 S., R. 9 E. only, by obliterating the notches on W. edge of stone, destroying the old mound of stone, and raising a new mound of stone E. of cor.  
No bearing trees available.  
Thence,  
North, on true line, continuing measurement of E. bdy. of sec. 36.  
Over nearly level land, thru. scattering timber and dense undergrowth.  
Ascend slightly over SE. slope, to  
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, with brass cap, marked

 $\frac{1}{4}$ S36

1925

No bearing trees available. Raise a mound of stone, 2 ft. base, 1  $\frac{1}{2}$  ft. high, W. of cor.  
Continue over nearly level land, thru. scattering timber and dense undergrowth.  
Ascend slightly over SE. slope, to  
45.00 Enter rolling land.  
Ascend 57 ft., over SE. slope, to  
56.26 Top of ascent, brs. E. and W.  
Descend 18 ft., over NE. slope, to  
61.75 Enter mountainous land.  
Descend 20 ft., over steep NE. slope, to  
62.74 Intersect the original  $\frac{1}{4}$  sec. cor. of secs. 31 and 36, which is a granite stone 12x6x6 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.  
Change this cor. monument to refer to the quarters of sec. 31 only, by marking the stone  $\frac{1}{4}$  on E. face, obliterating the old marking on W. face, and moving the mound of stone from W. to E. of cor.  
Thence,

Resurvey of S. half of E. bdy. of Township 12 South, Range 8 East. 5

Chains.	
	N.0°3'W., on true line, continuing measurement of E. bdy. of sec.36.
	Descend 25 ft., over NE.slope.
64.04	Wash, 20 lks. wide in gulch, course SE.
	Ascend 85 ft., over SW.slope, to
70.25	Wash, 20 lks. wide, course SW.
	Ascend 229 ft., over steep S.slope, to
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in the ground for reestablished cor. of secs. 25 and 36 only, with brass cap, marked
	<div>T12S R8E   R9E S25   S31 S36   1925</div>
	No bearing trees available.
	Raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
	Land, nearly level, rolling and mountainous.
	Soil, sandy, gravelly and rocky, 3rd and 4th rate.
	Timber, palo verde.
	Undergrowth, ocotilla and cactus.
	Scattering giant cactus.
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	From reestablished cor. of secs. 25 and 36,
	N.0°3'W., on true line, on E. bdy. of sec. 25.
	Over mountainous land, thru. scattering timber and dense undergrowth.
	Ascend 567 ft., over steep broken SW. slope to top of ridge.
1.67	From this point, cor. No. 4 of "Silver Hill West Extension" lode mining claim, Mineral Survey No. 1390, identical with cor. No. 3 of "Silver Hill" lode mining claim of same mineral survey brs. E. 3 lks. dist., which is a pine post, 4 ins. square, firmly set in a mound of stone, and marked S H 3 1390 on NE. face, and S H W E 4 1390 on NW. face.
18.95	Ridge, brs. E. and W.
	Descend 46 ft., over NW. slope, to
22.83	Intersect the previously reestablished cor. of secs. 25, 30, 31, and 36, which is an iron post, 3 ins. in diam., projecting 28 ins. above ground, firmly set in ground and mound of stone, properly marked on brass cap, and witnessed by a mound of stone, W. of cor.
	No bearing trees.
	Alter this cor. monument to refer to secs. 30 and 31 only, by changing the marking on the brass cap to read,
	<div>T12S R8E   R9E S25   S30 S31   1913-25</div>
	No bearing trees available.
	Destroy the old mound of stone, W. of cor., and raise a new mound of stone, 3 ft. base, 2 ft. high, E. of cor.
	Thence,
	N.0°3'E., on true line, continuing measurement of E. bdy. of sec. 25.
	Over mountainous land, thru. very scattering timber and dense undergrowth.
	Descend 267 ft., over steep broken NW. slope, to
36.85	Descend gradually over W. slope, to
40.00	Set an iron post, 3 ft. long, 1 in. in diam., on surface rock, deposit a stone, marked with a cross (x) at base of post, and raise a mound of stone around post, for reestablished cor. of sec. 25 only, with brass cap, marked

## BOOK 3676

6 Resurvey of S.  $\frac{1}{2}$  of East bdy, of Township 12 South, Range 8 East.

Chains.

S25

1925

No bearing trees available. Continue gradual descent over broken W.slope.

40.93 From this point, a palo verde post, firmly set in a mound of stone, unmarked, brs.W.15 lks. dist.

45.00 Ascend 75 ft., over steep SW.slope, to top of spur.

47.40 From this point, the NE. end center monument of "Carbonate" lode mining claim, Mineral Survey No.2586, which is a wooden post 4 ins.square, firmly set in a mound of stone marked "NE Cen End Carbonate" on E.face, and "7777" on W.face, bears W. 31 lks.dist.

49.83 Spur, slopes NW.

Descend 395 ft., over steep broken NE.slope, to

62.82 Intersect the previously reestablished  $\frac{1}{4}$  sec.cor. of secs. 25 and 30, which is an iron post, 3 ft.long, 1 in.in diam., projecting 20 ins. above ground, firmly set in ground and mound of stone, properly marked on brass cap, and witnessed by a mound of stone, W.of cor.

No bearing trees. Alter this cor.monument to refer to the quarters of sec.30 only, by changing the marking on brass cap to read,

S30

1913-25

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

Thence,

N.0°2'E., on true line, continuing measurement of E.bdy. of sec.25.

Descend 195 ft., over steep NE.slope.

66.92 Road, brs.E.and W.

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

Ascend 65 ft., over S.slope.

71.76 From this point, the NW. end center monument of "Three B's" lode mining claim, Mineral Survey No.2586, identical with SE. end center monument of "Climax" lode mining claim of same mineral survey, brs.E. 49 lks.dist., which is a pine post, 4 ins.square, firmly set in ground and mound of stone, marked "2586" on each of E. and W. faces, and "NW.Center Line 3.B" on S.face.

75.13 Spur, slopes E.

Descend 115 ft., over steep NE.slope, to

80.00 Set an iron post, 3 ft.long, 2 ins.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 cor.of secs.24 and 25 only, with brass cap, marked

T12S

R8E | R9E

S24 | S30

S25

1925

No bearing trees available.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, palo verde.

Undergrowth, greasewood and cactus.

Scattering giant cactus.

N.0°2' E., on true line, on E. bdy. of sec. 24.

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



Resurvey of S.  $\frac{1}{4}$  of East Bdy. of Township 12 South, Range 8 East. 7

Chains.  
14.12 Descend 125 ft., over NE. slope.  
Wash, 10 lks. wide, course NE. Thence over rolling land.  
Descend gradually over NE. slope, to  
25.17 Intersect the original cor. of secs. 19, 24, 25 and 30, which  
is a granite stone, 10x6x6 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. monument to refer to secs. 19 and 30 only,  
by destroying the old mound of stone W. of cor., and  
raising a new mound of stone 3 ft. base, 2 ft. high, E.  
of cor. No bearing trees available.  
Thence,  
North, on true line, continuing measurement of E. bdy. of  
sec. 24.  
Over rolling land, thru. scattering timber and dense under-  
growth.  
Descend gradually over NE. slope, to  
28.77 Wash, 10 lks. wide, course NE. Thence over nearly level land.  
35.37 Wash, 10 lks. wide, course NE.  
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. 24 only, with  
brass cap, marked

$\frac{1}{4}$ S24  
1925

No bearing trees available. Raise a mound of stone, 2 ft.  
base,  $1\frac{1}{2}$  ft. high, W. of cor.  
Continue over nearly level land, thru. very scattering  
timber and dense undergrowth.  
Descend gradually over NE. slope.  
41.47 Wash, 10 lks. wide, course NE.  
55.78 Wash, 10 lks. wide, course NE.  
65.15 Intersect the original  $\frac{1}{4}$  sec. cor. of secs. 19 and 24, which  
is a granite stone 6x6x8 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.  
Alter this cor. monument to refer to the quarters of sec.  
19 only, by marking  $\frac{1}{4}$  on E. face of stone, obliterating  
old marking on W. face, destroying old mound of stone,  
W. of cor., and raising a new mound of stone 2 ft. base,  
 $1\frac{1}{2}$  ft. high, E. of cor.  
No bearing trees available.  
Thence,  
N. 0° 6' E., on true line, continuing measurement of E. bdy.  
of sec. 24.  
65.85 Wash, 15 lks. wide, course NE.  
79.15 Wash, 30 lks. wide, course E. Thence over nearly level E.  
slope.  
80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in  
the ground for reestablished cor. of secs. 13 and 24  
only, with brass cap, marked

T12S  
R8E R9E  
S13 S19  
S24  
1925

No bearing trees available.  
Raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
From this cor., the boundary of the Papago Indian Reserva-  
tion extends W., identical with the Third latitudinal  
sec. line, thru. T. 12 S., R. 8 E., and southerly identical  
with the range line.  
Land, mountainous, rolling and nearly level.  
Soil, sandy and gravelly, 2nd and 3rd rate.  
Timber, palo verde and ironwood.  
Undergrowth, greasewood and cactus.  
Scattering giant cactus.

## BOOK 3676

## 8. Resurvey of part of West bdy, of Township 12 South, Range 9 East.

## Chains.

From the reestablished cor. of secs. 13 and 24, T. 12 S., R. 8 E., hereinbefore described,  
 N. 0° 6' E., on true line, completing resurvey of N.  $\frac{1}{2}$  of W. bdy. of sec. 19, T. 12 S., R. 9 E.  
 Over nearly level land, sloping to the E., thru. very scattering timber and dense undergrowth.  
 25.15 (40.00 chs. N. 0° 6' E. from  $\frac{1}{4}$  sec. cor. of sec. 19) Intersect the original cor. of secs. 13, 18, 19 and 24, which is a granite stone 6x5x8 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. monument to refer to secs. 18 and 19 only, by destroying the old mound of stone W. of cor., and raising a new mound of stone 3 ft. base, 2 ft. high, E. of cor. No bearing trees available.  
 Land, nearly level.  
 Soil, sandy and gravelly, 2nd rate.  
 Timber, palo verde and ironwood.  
 Undergrowth, greasewood and cactus.  
 Scattering giant cactus.

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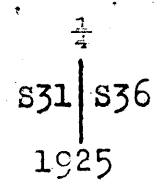
Survey of part of (S.  $\frac{1}{2}$ ) of West bdy. of Township 12 South, Range 8 East 9

Chains.

The following notes describe the survey of the South half of the range line bet. Ranges 7 and 8 E., in T.12 S., which portion of the line forms a part of the boundary of the Papago Indian Reservation, the S. half of T.12 S., R.8 E. being entirely within said Reservation.

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From the cor. of Ts. 12 and 13 S., Rs. 7 and 8 E., described in Book "G" of this group, North, on a true line, bet. secs. 31 and 36. Over level land, thru. scattering timber and dense undergrowth.

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



from which,  
A palo verde, 6 ins. in diam., brs. S.  $30^{\circ}$  E., 140 lks. dist., marked  $\frac{1}{4}$  S 31 BT.  
A palo verde, 6 ins. in diam., brs. S.  $49\frac{1}{2}^{\circ}$  W., 51 lks. dist., marked  $\frac{1}{4}$  S 36 BT.

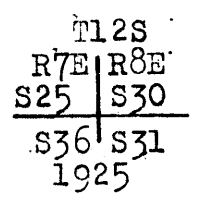
52.50 Continue over level land, thru. scattering timber and dense undergrowth.

52.50 Wash, 30 lks. wide, course S.  $70^{\circ}$  W.

61.90 Road, brs. NE. and SW.

70.00 Wash, 10 lks. wide, course S.  $80^{\circ}$  W.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 25, 30, 31 and 36, with brass cap, marked



from which,  
A mesquite, 8 ins. in diam., brs. N.  $51\frac{1}{2}^{\circ}$  E., 69 lks. dist., marked T12S R8E S30 BT.  
A palo verde, 6 ins. in diam., brs. S.  $29^{\circ}$  E., 226 lks. dist., marked T12S R8E S31 BT.  
A palo verde, 6 ins. in diam., brs. S.  $2^{\circ}$  W., 292 lks. dist., marked T12S R7E S36 BT.  
A mesquite, 8 ins. in diam., brs. N.  $21\frac{1}{2}^{\circ}$  W., 46 lks. dist., marked T12S R7E S25 BT.

Land, level.  
Soil, sandy and gravelly, 2nd rate.  
Timber, palo verde, mesquite.  
Undergrowth, greasewood and ocotillo,  
Scattering giant cactus.

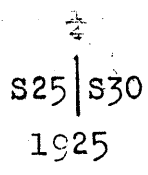
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North, on true line, bet. secs. 25 and 30. Over level land, thru. scattering timber and dense undergrowth.

22.50 Wash, 20 lks. wide, course W.

28.50 Dim road, brs. E. and W.

38.00 Wash, 100 lks. wide, course 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., with brass cap, marked



Survey of part (S.  $\frac{1}{2}$ ) of

10 West bdy. of Township 12 South, Range 8 East.

Chains.

from which,

A palo verde, 8 ins. in diam., brs. S.  $60\frac{1}{2}^{\circ}$  E., 35  
lks. dist., marked  $\frac{1}{2}$  S 30 BT.A palo verde, 10 ins. in diam., brs. S.  $28^{\circ}$  W., 66  
lks. dist., marked  $\frac{1}{2}$  S 25 BT.Continue over level land, thru. scattering timber and dense  
undergrowth.

43.00 Wash, 50 lks. wide, course West. Enter rolling land.

Ascend gradually over SW. slope, to

49.00 Wash, 20 lks. wide, course SW.

Ascend gradually over S. slope, to

55.00 Enter mountainous land.

Ascend 383 ft., over steep S. slope.

78.00 Spur, slopes E.

Descend 50 ft., over N. slope, to

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., over a cross  
(x) marked on surface rock, at exact cor. point, and  
raise a mound of stone around post, for cor. of secs. 19,  
24, 25 and 30, with brass cap, marked

T12S	
R7E	R8E
S24	S19
S25	S30
1925	

Land, level, rolling and mountainous.

Soil, sandy, gravelly and rocky, 3rd and 4th rate.

Timber, palo verde and mesquite.

Undergrowth, greasewood and cactus.

Scattering giant cactus.

North, on a true line, bet. secs. 19 and 24.

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

Descend 285 ft., over NE. slope.

1.19 Raise a mound of stone, 3 ft. base, 2 ft. high, on line at  
this point.

14.45 Bottom of gulch, course E.

Ascend 265 ft., over steep SE. slope..

30.00 Spur, slopes E.

Descend 129 ft., over N. slope, to

40.00 Set an iron post, 3 ft. long, 1 in. in diam., on surface  
rock, deposit a stone, marked with a cross (x) at base  
of post, and raise a mound of stone around post, for  
sec. cor., with brass cap, marked

$\frac{1}{2}$	
S24	S19
1925	

Descend 25 ft., over N. slope, to

42.00 Descend 337 ft., over steep NE. slope.

57.00 Center of wash, 100 lks. wide, course W. Thence, over nearly  
level land.

58.00 An ironwood 24 ins. in diam., brs. W. 15 lks. dist.

70.00 A wash, 20 lks. wide, course west.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the  
ground, for cor. of secs. 13, 18, 19 and 24, with brass  
cap, marked

T12S	
R7E	R8E
S13	S18
S24	S19
1925	

Survey of part (S.  $\frac{1}{2}$ ) of West bdy. of Township 12 South, Range 8 East 11

Chains.

from which,

A palo verde, 5 ins. in diam., brs. N.  $37\frac{1}{2}^{\circ}$  W., 56  
lks. dist., marked T12S R7E S13 BT.

A palo verde, 8 ins. in diam., brs. S.  $57\frac{1}{2}^{\circ}$  W., 66  
lks. dist., marked T12S R7E S24 BT.

No other bearing trees available.

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

From this cor., the boundary of the Papago Indian Reservation extends east identical with the Third latitudinal section line thru T. 12 S., R. 8 E., and south, identical with the Range line.

Land, mountainous and nearly level.

Soil, sandy and gravelly and rocky, 3rd and 4th rate.

Timber, palo verde, mesquite and ironwood.

Undergrowth, greasewood and ocotillo.

12 Survey of part of Subdivision lines of T. 12 S., R. 8 E.

Chains.

The following notes describe the survey of the Third Latitudinal section line thru. T. 12 S., R. 8 E., which line forms a part of the boundary of the Papago Indian Reservation, the southhalf of said township being entirely within the said Reservation.

From the reestablished cor. of secs. 13 and 24, on E. bdy, of Tp., hereinbefore described,  
West, on true line, bet. secs. 13 and 24.  
Over nearly level land, thru. scattering timber and dense undergrowth.

- 4.20 Wash, 30 lks. wide, course SE.
- 15.50 Same wash, course NE.
- 25.20 Same wash, course SE.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 24 ins. in the ground, for  $\frac{1}{4}$  sec. cor., with brass cap, marked

$\frac{1}{4}$  S 13  
S 24  
1925

from which,  
A palo verde, 10 ins. in diam., brs. N. 40 $\frac{3}{4}$ ° E., 54 lks. dist., marked  $\frac{1}{4}$  S 13 BT.  
A palo verde, 6 ins. in diam., brs. S. 64° W., 23 lks. dist., marked  $\frac{1}{4}$  S 24 BT.

Continue over nearly level land, thru. scattering timber and dense undergrowth.

- 73.40 Wash, 10 lks. wide, course NE.
- 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 cross (x) at base of post, and raise a mound of stone around post, for cor. of secs. 13, 14, 23 and 24, with brass cap, marked

T12S | R8E  
S14 | S13  
S23 | S24  
1925

No bearing trees available.  
Land, nearly level.  
Soil, sandy and gravelly, 2nd and 3rd rate.  
Timber, palo verde and ironwood.  
Undergrowth, greasewood and cactus.

West, on a true line, bet. secs. 14 and 23.  
Over gently rolling land, thru. scattering timber and dense undergrowth.

- 9.90 Wash, 20 lks. wide, course N.
- 15.90 Wash, 10 lks. wide, course NE.
- 21.10 Wash, 15 lks. wide, course NE.
- 36.60 Wash, 10 lks. wide, course SW.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground, to bed rock, supported in a mound of stone, for  $\frac{1}{4}$  sec. cor., with brass cap, marked

$\frac{1}{4}$  S 14  
S 23  
1925

from which,  
A palo verde, 4 ins. in diam., brs. S. 23 $\frac{1}{2}$ ° W., 124 lks. dist., marked  $\frac{1}{4}$  S 23 BT.

Survey of part of Subdivision lines of T.12 S. R. 8 E. 13

Chains.

An ironwood, 4 ins. in diam., brs. N.  $83\frac{1}{2}^{\circ}$  W., 143  
lks. dist., marked  $\frac{1}{4}$  S 14 BT.  
Continue over gently rolling land, thru. scattering timber  
and dense undergrowth.  
44.20 Wash, 15 lks. wide, course SW.  
47.30 Wash, 30 lks. wide, course SW.  
64.10 Wash, 20 lks. wide, course S.  
80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 6 ins. in  
ground to bed rock, deposit a stone marked with a cross  
(x) at base of post, and raise a mound of stone around  
post, for cor. of secs. 14, 15, 22 and 23, with brass cap,  
marked

T12S	R8 E
S15	S14
S22	S23
1925	

No bearing trees available.

From this cor., U.S.L.M. No. 2 bears N.  $5^{\circ}$  16' W., 140.23  
chs. dist., which is a wooden post 4 ins. square, in mound  
of stone 6 ft. base, 3 ft. high, top of post partly decay-  
ed, but marks are legible.

Land, gently rolling.

Soil, sandy and gravelly, 3rd rate.

Timber, palo verde and ironwood.

Undergrowth, greasewood and ocotillo.

West, on true line, bet. secs. 15 and 22.  
Over gently rolling land, thru. scattering timber and  
dense undergrowth.  
4.50 Wash, 20 lks. wide, course south,  
20.10 Wash, 10 lks. wide, course south,  
28.80 Wash, 10 lks. wide, course SW.  
35.80 Wash, 10 lks. wide, course SE.  
38.40 Wash, 10 lks. wide, course 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., with brass cap, marked

S 15
S 22
1925

from which,

A palo verde, 5 ins. in diam., brs. S.  $53^{\circ}$  W., 74  
lks. dist., marked  $\frac{1}{4}$  S 22 BT.

An ironwood, 4 ins. in diam., brs. N.  $53\frac{1}{2}^{\circ}$  W., 152  
lks. dist., marked  $\frac{1}{4}$  S 15 BT.

Continue over gently rolling land, thru. scattering timber  
and dense undergrowth.

53.30 Wash, 40 lks. wide, course SW.  
71.90 Wash, 10 lks. wide, course SW.  
80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in  
the ground for cor. of secs. 15, 16, 21 and 22, with brass  
cap, marked

T12S	R8E
S16	S15
S21	S22
1925	

from which,

An ironwood, 5 ins. in diam., brs. N.  $53\frac{3}{4}^{\circ}$  E., 36  
lks. dist., marked T12S R8E S15 BT.

A palo verde, 4 ins. in diam., brs. S.  $63\frac{1}{2}^{\circ}$  E., 94  
lks. dist., marked T12S R8E S22 BT.

A palo verde, 4 ins. in diam., brs. S.  $16\frac{1}{4}^{\circ}$  W., 132  
lks. dist., marked T12S R8E S21 BT.

A palo verde, 4 ins. in diam., brs. N.  $30\frac{3}{4}^{\circ}$  W., 87  
lks. dist., marked T12S R8E S16 BT.

## BOOK 3676

## 14 Survey of part of Subdivision lines of T.12 S., R.8 E.

Chains.

Land, gently rolling and nearly level.  
 Soil, sandy and gravelly, 3rd rate.  
 Timber, palo verde, and ironwood..  
 Undergrowth, greasewood and catclaw.

-----  
 West, on a true line, bet. secs. 16 and 21.  
 Over nearly level land, thru. scattering timber and dense undergrowth.

9.60 Wash, 15 lks. wide, course SW.  
 15.00 Wash, 15 lks. wide, course SW.  
 21.40 Wash, 10 lks. wide, course SW.  
 29.80 Wash, 10 lks. wide, course SW.  
 32.90 Wash, 10 lks. wide, course S.  
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., with brass cap, marked

$\frac{1}{4}$  S 16  
 S 21  
 1925

from which,

An ironwood, 5 ins. in diam., brs. N.  $34\frac{3}{4}^{\circ}$  E., 207 lks. dist., marked  $\frac{1}{4}$  S 16 BT.

A palo verde, 8 ins. in diam., brs. S.  $32\frac{1}{2}^{\circ}$  W., 93 lks. dist., marked  $\frac{1}{4}$  S 21 BT.

Continue over nearly level land, thru. scattering timber and dense undergrowth.

54.90 Enter wash, 30 lks. wide, course W. from NE. Thence in wash.

60.70 Leave same wash, course SW. from E.

79.30 Road, brs. NW. and SE.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in the ground, for cor. of secs. 16, 17, 20 and 21, with brass cap, marked

T12S | R8E  
 S17 | S16  
 S20 | S21  
 1925

from which,

A palo verde, 6 ins. in diam., brs. N.  $56\frac{3}{4}^{\circ}$  E., 194 lks. dist., marked T12S R8E S16 BT.

A palo verde, 5 ins. in diam., brs. S.  $38\frac{1}{2}^{\circ}$  E., 177 lks. dist., marked T12S R8E S21 BT.

A palo verde, 5 ins. in diam., brs. S.  $34^{\circ}$  W., 65 lks. dist., marked T12S R8E S20 BT.

A palo verde, 5 ins. in diam., brs. N.  $69^{\circ}$  W., 65 lks. dist., marked T12S R8E S17 BT.

Land, nearly level.

Soil, sandy and gravelly, 2nd rate.

Timber, palo verde and ironwood.

Undergrowth, greasewood, catclaw and ocotillo.

-----  
 West, on a true line, bet. secs. 17 and 20.

Over nearly level land, thru. scattering timber and dense undergrowth.

1.60 Wash, 20 lks. wide, course SW.  
 11.90 Wash, 10 lks. wide, course SW.  
 20.00 Wash, 10 lks. wide, course SW.  
 27.90 Wash, 20 lks. wide, course SW.  
 38.50 Wash, 10 lks. wide, course S.  
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., with brass cap, marked

$\frac{1}{4}$  S 17  
 S 20  
 1925



Survey of part of Subdivision lines of T.12 S., R. 8 E. 15

Chains.	from which, A palo verde, 4 ins.in diam.,brs.S.166 lks. dist., marked $\frac{1}{4}$ S 20 BT. A palo verde, 4 ins.in diam., brs.N.87°W.,126 lks. dist., marked $\frac{1}{4}$ S 17 BT. Continue over nearly level land, thru. scattering timber and dense undergrowth. 40.30 Road, brs.NW. and SE. 44.80 Wash,10 lks.wide, course SW. 51.30 Wash,10 lks.wide, course SW. 58.20 Wash,10 lks.wide, course SW. 77.30 Wash,10 lks.wide, course SW. 78.30 Road, brs.NE. and SW. 80.00 Set an iron post, 3 ft.long, 2 ins.in diam., 26 ins. in the ground, for cor.of secs. 17,18,19 and 20, with brass cap, marked								
	<table><tr><td>T12S</td><td>R8E</td></tr><tr><td>S18</td><td>S17</td></tr><tr><td>S19</td><td>20</td></tr><tr><td colspan="2">1925</td></tr></table>	T12S	R8E	S18	S17	S19	20	1925	
T12S	R8E								
S18	S17								
S19	20								
1925									
	from which, An ironwood, 5 ins. in.diam.,brs.N.1 $\frac{1}{2}$ °E.,159 lks.dist., marked T12S R8E S17 BT. An ironwood,6 ins.in diam.,brs.S.88°W.,187 lks.dist., marked T12S R8E S19 BT. A palo verde, 5ins. in diam.,brs.S.77°25'E.,108 lks.dist., marked T12S R8E S20 BT. A palo verde, 6 ins. in diam.,brs.N.15 $\frac{1}{4}$ °W.,124 lks.dist., marked T12S R8E S18 BT. Land, nearly level. Soil,sandy and gravelly, 2nd rate. Timber, palo verde and ironwood. Undergrowth, greasewood and ocotillo..								
	-----								
40.00	West, on a random line,bet. secs.18 and 19.								
86.65	Set temp. $\frac{1}{4}$ sec.cor. Fall 10 lks.S.of the cor.of seds.13,18,19 and 24,on the W.bdy.of the Tp., hereinbefore described. Thence, S.89°56'E., on a true line, bet. secs.18 and 19. Over nearly level land; thru. scattering timber and dense undergrowth. 27.15 Road, brs.NE. and SW. 36.75 Wash,20 lks.wide, course SW. 45.65 Wash,20 lks.wide, course SW. 46.65 Set an iron post, 3 ft.long, 1 in. in diam.,26 ins. in the ground, for $\frac{1}{4}$ sec.cor., with brass cap, marked								
	<table><tr><td><math>\frac{1}{4}</math> S 18</td></tr><tr><td>S 19</td></tr><tr><td>1925</td></tr></table>	$\frac{1}{4}$ S 18	S 19	1925					
$\frac{1}{4}$ S 18									
S 19									
1925									
	from which, A palo verde, 6 ins.in diam.,brs.N.80°E.,72 lks.dist.,marked $\frac{1}{4}$ S 18 BT. A palo verde, 6 ins. in diam.,brs.S.55°W.,161 lks.dist., marked $\frac{1}{4}$ S 19 BT. Continue over nearly level land, thru.scattering timber and dense undergrowth. 47.44 Wash,15 lks.wide, course SW. 52.45 Wash,10 lks.wide, course SW. 81.65 Wash,10 lks.wide, course SW. 86.65 The cor.of secs.17,18,19 and 20. Land, nearly level. Soil,sandy and gravelly, 2nd rate. Timber, palo verde and ironwood. Undergrowth, greasewood, catclaw and ocotillo.								

The continued satisfactory adjustment of the solar apparatus of Young and Sons' transit No.8592, used by W.H. Thorn, U.S.C.E. throughout the surveys executed by him, as described in the foregoing notes is indicated from final field test of said instrument described in Book "K" of this group.

The continued satisfactory adjustment of the solar apparatus of Buff and Buff transit No.10125 used by C.E. Hunter, U.S.T. throughout the resurveys and surveys executed by him as described in the foregoing notes is indicated from field tests described in Book "M," of this group.

Boundaries of South half of Township 12 South, Range 8 East.

Latitudes, departures, and closing errors.

Line designated.	True course.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
South boundary,	S.89°59'W.	486.71		.14		486.71
West boundary,	North,	240.00	240.00			
Subdivisional boundary;	S.89°56'E. East,	86.65 400.00		.10	86.65 400.00	
East boundary,	S.0° 6'W.	14.85		14.85		.03
	South,	39.98		39.98		
	S.0°2'W.	42.35		42.35		.02
	S.0°3'W.	39.99		39.99		.03
	S.0°3' E.	40.00		40.00	.03	
	South,	40.00		40.00		
	S.0° 1'W.	22.74		22.74		.01
Convergency,					.23	
Totals.			240.00	240.14	486.91	486.80
				240.00	486.80	
Error in latitude,			0.14			
Error in departure,					0.11	

#### GENERAL DESCRIPTION.

There are no surveyed areas in this township, but including the lines surveyed under this group, the boundaries of the township are surveyed with the exception of the N.half of the West bdy. The third latitudinal sec. line surveyed thru. the township as described in the foregoing notes is the only surveyed subdivision line. The surface of the east four miles of the north two tiers of sections is mountainous, the mountains therein being known as the Silver Bell Mountains.

The surface in sec.25, and parts of secs.23, 24 and 36 is mountainous, the mountains therein being known as the Waterman Mountains. The surface of parts of sections 19 and 30 is mountainous, the mountains therein belonging to a small isolated unnamed range.

The surface of the greater part of the township is level or nearly level, merging near the mountains into gently rolling and rolling land.

The soil over the mountainous portion is gravelly and rocky, 3rd and 4th rate, and over the remainder of

the township is sandy and gravelly, 2nd and 3rd rate. There is a scattering growth of palo verde and ironwood timber over the entire township, and a dense undergrowth of greasewood and cactus, and a scattering growth of giant cactus.

There are no springs or permanent streams of water.

There are deposits of valuable mineral in the mountains in the northern and southeastern parts of the township, as evidenced by a number of surveyed mining claims in secs. 3, 4, 5, 8, 9, 10 & 11, and in secs. 25 and 36.

The mining town of Silver Bell is located at about the middle of the N. bdy. of the township, from which a railroad extends northeasterly to junction with the Southern Pacific R.R. at Red Rock.

There are no settlers in the township, and except the buildings at the town of Silver Bell, no improvements. Several roads traverse the township.

During rainy seasons a fair growth of grass is prevalent over a large part of the township.

The entire south half of the township is within the Papago Indian Reservation.

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# CERTIFICATE OF UNITED STATES TRANSITMAN.

I, Charles E. Hunter, U. S. Transitman, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General, for Group 100, Arizona,

bearing date of the 25th day of September, 19 19 I have well, faithfully, and truly

in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instruc-

tions, and the laws of the United States, <sup>re-</sup> surveyed all those parts or portions of the

East boundary, T. 12 S., R. 8 E., and West bdy. of T. 12 S., R. 9 E.

and Surveyed all those parts or portions of the

Subdivision lines of

TOWNSHIP 12 SOUTH, RANGE 8 EAST,

of the Gila and Salt

River Base and Meridian, in the State of Arizona,

and by diagram on page 1 hereof  
the foregoing field notes as having been executed by me, and under my direction; and that all the corners of said resurvey

and survey have been established and perpetuated in strict accordance with the Manual of Surveying Instruc-

tions, and the special written instructions of the U. S. Surveyor General, for Group 100, Arizona,

and in the specific manner described in the field notes, and that the foregoing are the original field notes of

such resurvey and survey.

Place: Phoenix, Arizona

Charles E. Hunter

U. S. Transitman.

Date: October 28, 1925

~~APPROVAL~~

~~OFFICE OF THE UNITED STATES SURVEYOR GENERAL,~~

19

~~The foregoing field notes of the survey of~~

~~executed by~~

~~under his special instructions dated~~

19

~~having been critically examined, and the necessary corrections and explanations made; the said field notes, and the surveys they describe, are hereby approved:~~

~~U. S. Surveyor General.~~

~~I certify that the foregoing transcript of the field notes of the above-described surveys in~~

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



BOOK 3676

22

**CERTIFICATE OF UNITED STATES CADASTRAL  
ENGINEER.**

I, William H. Thorn, U.S. Cadastral Engineer, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General, for Group 100, Arizona bearing date of the 25th day of September, 19 19, 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, surveyed all those parts or portions of the

West boundary of

TOWNSHIP 12 SOUTH, RANGE 8 EAST.

of the Gila and Salt  
River Base and Meridian, in the State of Arizona, which are represented in and by diagram on page 1 hereof the foregoing field notes as having been executed by me, and under my direction; and that all the corners of said 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 100, Arizona, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey

Place:

Phoenix Ariz

Date:

Oct 16 1925

William H. Thorn  
U. S. Cadastral Engineer.

**APPROVAL.**

OFFICE OF UNITED STATES SUPERVISOR OF SURVEYS,

Denver, Colorado, November 25, 1925.

The foregoing field notes of the <sup>re-</sup>survey of Part of the W. boundary of T.12 S., R.9 E., and  
Part (S.  $\frac{1}{2}$ ) of the East boundary, of T.12 S., R.8 E.,

and of the Survey of

Part (S.  $\frac{1}{2}$ ) of West boundary, and

Part of the Subdivision lines of

TOWNSHIP 12 SOUTH, RANGE 8 EAST.

of the Gila and Salt River Base and Meridian, in the State of Arizona,

executed by William H. Thorn, U.S. Cadastral Engineer, and Charles E. Hunter, U.S. Transitman, under special instructions dated Sept. 25, 1919, for Group 100, Arizona, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the resurveys and surveys they describe, are hereby approved.

United States Supervisor of Surveys.

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