

3642

ORIS

Book "C"

4-679

# BOOK 3642 FIELD NOTES

OF THE SURVEY OF THE

West boundary,

East boundary,

South boundary, and the

Subdivision lines of

TOWNSHIP 31 NORTH, RANGE 12 WEST,

Of the Gila and Salt River Base and Meridian,

In the State of Arizona

### EXECUTED BY

William H. Thorn, U. S. Surveyor

William E. Hiester, U. S. Surveyor

Loyd E. Sechrist, U. S. Transitman and

Benjamin J. Kinsey, U. S. Transitman

in the capacity of U. S. Surveyors, under Special Instructions dated October 12, 1916,

issued by the United States Surveyor General to govern surveys included in Group

74, Arizona, which were approved by the Commissioner of the General Land

Office, October 24, 1916, and Assignment Instructions dated

April 19, 1917  
August 11, 1921  
March 30, 1922

Survey commenced September 28, 1917

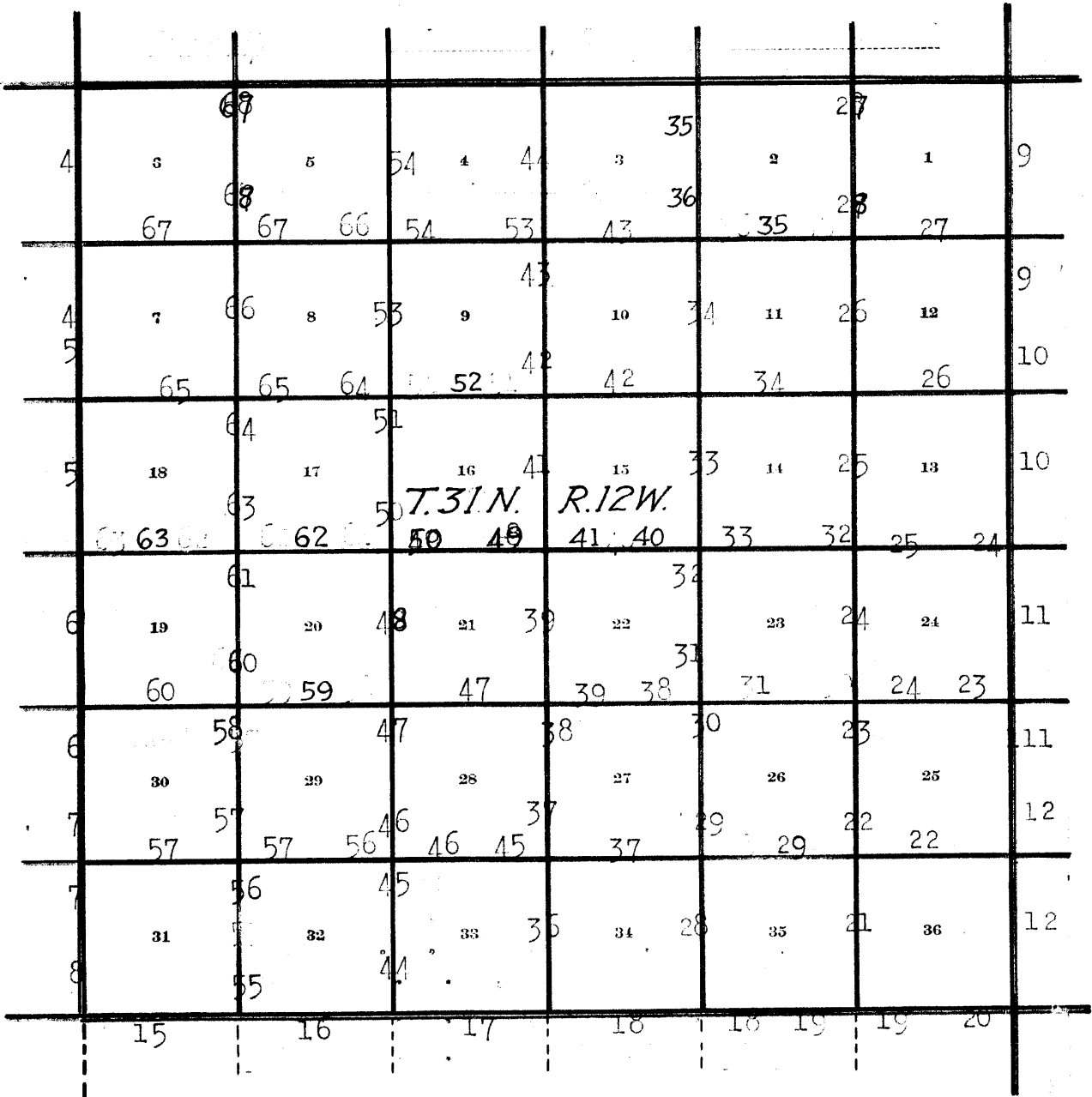
Survey completed July 14, 1923.

1A

Book "C"  
Group 74- Arizona

BOOK 3642

INDEX DIAGRAM.



==== Lines surveyed under this group.

==== Lines surveyed under group No. 73.

---- Unsurveyed.

Book "C"  
Group 74 - - Arizona.

Township 31 North, Range 12 West.

DATE DIAGRAM.

*For dates of execution of survey of this line see Book "A"*

10-1-17	10-1-17	10-1-17	10-1-17	10-1-17	10-1-17	10-1-17	10-1-17	10-1-17	10-1-17	10-1-17	10-1-17
6-16-22	6-16-22	6-16-22	6-16-22	6-16-22	6-16-22	6-16-22	6-16-22	6-16-22	6-16-22	6-16-22	6-16-22
6-17-22	6-17-22	6-17-22	6-17-22	6-17-22	6-17-22	6-17-22	6-17-22	6-17-22	6-17-22	6-17-22	6-17-22
5-10-22	6-18-22	6-18-22	6-18-22	6-18-22	6-18-22	6-18-22	6-18-22	6-18-22	6-18-22	6-18-22	6-18-22
6-14-22	6-14-22	6-14-22	6-14-22	6-14-22	6-14-22	6-14-22	6-14-22	6-14-22	6-14-22	6-14-22	6-14-22
6-14-22	5-30-22	5-30-22	5-30-22	5-30-22	5-30-22	5-30-22	5-30-22	5-30-22	5-30-22	5-30-22	5-30-22
6-14-22	5-9-22	5-9-22	5-9-22	5-9-22	5-9-22	5-9-22	5-9-22	5-9-22	5-9-22	5-9-22	5-9-22
5-29-22	5-29-22	5-29-22	5-29-22	5-29-22	5-29-22	5-29-22	5-29-22	5-29-22	5-29-22	5-29-22	5-29-22
9-28-17	9-28-17	9-28-17	9-28-17	9-28-17	9-28-17	9-28-17	9-28-17	9-28-17	9-28-17	9-28-17	9-28-17
6	5	4	3	2	1	7-14-23	5-7-22	5-25-22	5-30-22	5-30-22	5-12-22

- Indicates surveys executed by William H. Thorn, U.S. Surveyor, on dates shown thereon.
- Indicates surveys executed by William E. Hiester, U.S. Surveyor, on dates shown thereon.
- Indicates surveys executed by Loyd E. Sechrist, U.S. Transitman, on dates shown thereon.
- - - - - Indicates surveys executed by Benjamin J. Kinsey, U.S. Transitman, on dates shown thereon.

Surveys herein described, executed by William H. Thorn, U.S. Surveyor; Loyd E. Sechrist, U.S. Transitman; William E. Hiester, U.S. Surveyor and Benjamin J. Kinsey, U.S. Transitman, on dates shown on diagram on page 1 hereof, using respectively Young and Sons light mountain transit No. 8592 and Buff and Buff light mountain transit No. 10125 by Thorn and Sechrist, and Buff and Buff light mountain transits Nos. 9977 and 10125 by Hiester and Kinsey. All instruments are equipped with full vertical circles and Smith solar attachments. Unless otherwise specified all azimuth determinations are accomplished with the solar attachment.

Field tests of instrument No. 8592 by William H. Thorn, U.S. Surveyor and instrument No. 10125 by Loyd E. Sechrist, U. S. Transitman.

September 22, 1917: We examine the adjustments of the transits and correct all errors; then to test the solar apparatus by comparing their indications, resulting from observations made during a.m. and p.m. hours with a meridian established by Polaris observation, we proceed as follows:

At camp near the  $\frac{1}{4}$  sec. cor. of secs. 9 & 10, T. 32 N., R. 13 W., G. and S.R. B. and M. Arizona, lat.  $36^{\circ} 11' N.$ , long.  $113^{\circ} 41\frac{1}{2}' W.$ , at 7h. 29.4m. p.m., l.m.t. we 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 on a peg driven firmly in the ground, 5 chs. North.

Azimuth of Polaris at elongation =  $1^{\circ} 24' 20''$ .

September 23, 1917: At 7h 45m a.m., l.m.t., we lay off the azimuth of Polaris,  $1^{\circ} 24\frac{1}{2}'$  to the west and mark the meridian thus determined by a tack in a peg driven firmly in the ground, 5 chs. N.

At 8h 0m a.m. l.m.t., we set off  $36^{\circ} 11' N.$  on the lat. arcs,  $0^{\circ} 01' N.$  on the decl. arcs; and determine a meridian with the solars, which we find to agree with the true meridian.

At apparent noon, with the lat. arcs unchanged, we observe the sun on the meridian; the resulting reading of each decl. arc; is  $0^{\circ} 03\frac{1}{2}' S.$ , which agrees with the computed decl. of the sun.

At 4h 0m p.m. l.m.t., with the lat. arcs unchanged, we set off  $0^{\circ} 06\frac{1}{2}'$  on the decl. arcs and determine a meridian with each solar, which we find to agree with the true meridian.

As all of the solar observations during the usual hours of solar work come within  $1' 30''$  of the true meridian we conclude that the adjustments of the instruments are satisfactory.

Field tests of instrument No. 9977 by William E. Hiester, U. S. Surveyor and instrument No. 10125 by Benjamin J. Kinsey, U. S. Transitman.

May 7, 1922; We examine the adjustments of the transits and correct all errors; then to test the solar apparatus by comparing their indications, resulting from observations made during a.m. and p.m. hours with a meridian established by Polaris observation, we proceed as follows:

At camp near the center of sec. 9, T31N R12W., G. and S.R.B. and M., Arizona, lat.  $36^{\circ} 06' N.$ , long.  $113^{\circ} 35\frac{1}{2}' W.$ , at 4h. 41.3m. a.m., l.m.t. 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 on a peg driven firmly in the ground 5 chains N.

Azimuth of Polaris at elongation =  $1^{\circ}22'42''$ .

At 7h.45m.a.m., l.m.t., we lay off the azimuth of Polaris  $1^{\circ}22\frac{1}{2}'$  to the west, and mark the meridian thus determined by a tack in a peg driven firmly in the ground, 5 chs.N.

At 8h. Om. a.m., l.m.t., we set off  $36^{\circ}06'N.$  on the lat. arcs,  $16^{\circ}42'N.$  on the decl. arcs; and determine a meridian with the solar, which we find to agree with the true meridian.

At apparent noon, with the lat. arcs unchanged, we observe the sun on the meridian; the resulting reading of each decl. arc is  $16^{\circ}45'N.$ , which agrees with the computed decl. of the sun.

At 4h. Om. p.m., l.m.t., with the lat. arcs unchanged, we set off  $16^{\circ}49'N.$  on the decl. arcs, and determine a meridian with each solar, which we find to agree with the true meridian.

As all of the solar observations during the usual hours of solar work come within  $1'30''$  of the true meridian we conclude that the adjustments of the instruments are satisfactory.

Unless otherwise specified, all measurements are made with Lufkin steel tapes 5 chs. in length, compared with a Lufkin 1 ch. standard steel tape, and found correct. The measurements are made on the slope, vertical angle determined and the slope measurements properly reduced to true horizontal distances.

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4 Survey of West boundary of Township 31 North, Range 12 West.

Chains.

From the cor. of Ts. 31 and 32 N., Rs. 12 and 13 W., described in Book "A," of this group.

South, on true line, bet. secs. 1 and 6.

Over gently rolling land, thru, medium heavy timber and dense undergrowth.

Ascend 15 ft., over NW. slope.

10.00 Descend 18 ft., over SE. slope.

30.00 Ascend 12 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,

$\frac{1}{4}$   
 S 1 | S 6  
 1917

from which,

A cedar, 7 ins. in diam., brs. N. 74° E., 83 lks. dist., marked  $\frac{1}{4}$  S 6 BT.

A cedar, 8 ins. in diam., brs. S. 31° W., 42 lks. dist., marked  $\frac{1}{4}$  S 1 BT.

Ascend 20 ft., over N. slope.

60.00 Descend 28 ft., over S. 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,

T31N  
 R13W | R12W  
 S 1 | S 6  
 S12 | S7  
 1917

from which,

A cinchona, 5 ins. in dia., brs. N. 71 $\frac{1}{2}$ ° E., 26 lks. dist., marked T31N R12W S6 BT.

A cedar, 15 ins. in dia., brs. S. 6 $\frac{1}{4}$ ° E., 66 lks. dist., marked T31N R12W S7 BT.

A cedar, 12 ins. in diam., brs. S. 37 $\frac{1}{4}$ ° W., 258 lks. dist., marked T31N R13W S12 BT.

A cedar, 7 ins. in diam., brs. N. 46 $\frac{1}{2}$ ° W., 76 lks. dist., marked T31N R13W S1 BT.

Land, gently rolling.

Soil, heavy clay, very shallow and rocky, 3rd rate.

Timber, cedar and pinyon.

Undergrowth, sagebrush and cinchona.

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

Over gently rolling land, thru. medium heavy <sup>timber</sup> and dense undergrowth,

Descend 15 ft., over S. slope.

2.49 Center of draw, 200 lks. wide, course S. 30° E.

Descend slightly over E. slope, to

10.00 Ascend 12 ft., over E. slope.

20.00 Descend 36 ft., over SE. slope.

33.78 Draw, 100 lks. wide, course E.

Ascend 12 ft., over N. slope, to

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

$\frac{1}{4}$   
 S12 | S 7  
 1917

from which,

A cedar, 16 ins. in diam., brs. N. 50 $\frac{1}{2}$ ° E., 148 lks. dist., marked  $\frac{1}{4}$  S 7 BT.

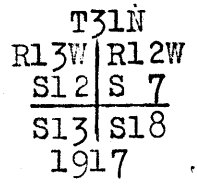
A cedar, 6 ins. in diam., brs. S. 50 $\frac{1}{2}$ ° W., 54 lks. dist., marked  $\frac{1}{4}$  S 12 BT.

Descend 17 ft., over S. slope, to

Survey of West bdy. of Township 31 North, Range 12 West. 5.

Chains.

45.00 Center of draw, 4 chs.wide, course N.75°E.  
Ascend 24 ft., over NE.slope.  
65.00 Descend 16 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.7,12,13 and 18, marked on  
brass cap,

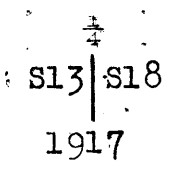


from which,  
A cedar, 10 ins. in diam., brs.N.7½° E., 174  
lks.dist., marked T31N R12W S7 BT.  
A cedar, 8 ins. in diam., brs.S.86°E., 26 lks.  
dist., marked T31N R12W S18 BT.  
A cedar, 14 ins.in diam., brs.S.54½°W., 43  
lks.dist., marked T31N R13W S13BT.  
A cedar, 12 ins.in diam., brs.N.70½°W., 120 lks..  
dist., marked T31N R13W S12BT.

Land, gently rolling.  
Soil, heavy, rocky clay, 3rd rate.  
Timber, cedar and pinyon.  
Undergrowth, sagebrush, cinchona and algerita.

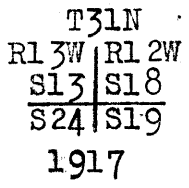
South, on a true line, bet. secs.13 and 18.  
Over gently rolling land, thru. medium heavy timber and  
dense undergrowth.

Descend 40 ft., over SE.slope.  
3.15 Wire and brush fence, brs.E. and W.  
6.00 Road, brs.NE. and SW.  
20.00 Center of draw, 150 lks.wide, course S. 75°E.  
Ascend 15 ft., over NE. slope.  
25.00 Descend 15 ft., over S.slope.  
27.18 Draw, course E.  
Ascend 20 ft., over NE.slope.  
35.00 Descend 10 ft., over E.slope, to  
40.00 Set an iron post, 3 ft.long, 1 in. in diam., 24 ins. in  
the ground, for sec.cor., marked with brass cap,



from which,  
A cedar, 10 ins. in diam., brs.N.48½°E., 157  
lks.dist., marked ¼S 18 BT.  
A cedar, 14 ins.in diam., brs.S.74½°W., 117  
lks.dist., marked ¼ S 13 BT.

Descend 57 ft., over E. and SE.slopes.  
50.15 Wash, 12 lks.wide, 2 ft.deep, course S.75°E.,  
Ascend 35 ft., over NE.slope, to  
63.50 Descend 28 ft., over SE.slope, to  
76.28 Wash, 6 lks.wide, 1 ft. deep, course NE.  
Ascend 27 ft., over NW.slope, to  
80.00 Set an iron post, 3 ft.long, 2 ins. in diam., 24 ins.in  
the ground for cor.of secs.13,18,19 and 24, marked on  
brass cap,



from which,  
A cedar, 10 ins. in diam., brs.N.32½°E., 71  
lks.dist., marked T31N R12W S18 BT.  
A cedar, 12 ins.in diam., brs.S.6¾°E., 41  
lks.dist., marked T31N R12W S19 BT.  
A cedar, 16 ins.in diam., brs.S.12¾°W., 27  
lks.dist., marked T31N R13W S24 BT.

6 Survey of West boundary of Township 31 North, Range 12 West.

Chains.

A cedar, 7 ins. in diam., brs. N.  $63\frac{1}{2}^{\circ}$  W. 47 lks. dist., marked T31N R13W S13 BT.  
Land, gently rolling.  
Soil, heavy rocky clay, 3rd rate.  
Timber, cedar and pinyon.  
Undergrowth, sagebrush, cinchona, algerita, scrub oak and rabbit brush.

15.00 South, on true line, bet. secs. 19 and 24.  
37.45 Over gently rolling land, thru. medium heavy timber and dense undergrowth.  
Ascend 30 ft., over NW. slope.  
Descend 60 ft., over SE. slope, to  
40.00 North or left rim of gulch, brs. NE. and SW. Enter mountainous land.  
Descend 62 ft., over steep S. slope, to  
Set an iron post, 3 ft. long, 1 in. in diam., on surface rock, supported in a mound of stone, for  $\frac{1}{4}$  sec. cor., marked on brass cap,

$\frac{1}{4}$   
S24 | S19  
1917

from which,

A pinyon, 12 ins. in diam., brs. N.  $23\frac{1}{2}^{\circ}$  W., 70 lks. dist., marked  $\frac{1}{4}$  S 24 BT.

No other bearing trees available.

Raise a mound of stone, 3 ft. base, 2 ft. high N.  $70^{\circ}$  W. of cor. 10 ft. dist.

40.06 Wash, 8 lks. wide in bottom of gulch, course N.  $85^{\circ}$  E.  
Ascend 32 ft., over N. slope, to  
43.77 South or right rim of gulch, brs. NE. and SW. Enter gently rolling land.  
Ascend 26 ft., over NE. slope.  
58.75 Descend 11 ft. over E. slope.  
63.80 Thence over nearly level land.  
Ascend 12 ft., over E. slope.  
73.70 Descend 7 ft., over E. slope, to  
80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 19, 24, 25 and 30, marked on brass cap,

T31N  
R13W | R12W  
S24 | S19  
S25 | S30  
1917

from which,

A cedar, 10 ins. in diam., brs. N.  $48^{\circ}$  E., 55 lks. dist., marked T31N R12W S19 BT.

A cedar, 8 ins. in diam., brs. S.  $43^{\circ}$  E., 20 lks. dist., marked T31N R12W S30 BT.

A cedar, 6 ins. in diam., brs. S.  $16\frac{1}{2}^{\circ}$  W., 35 lks+ dist., marked T31N R13W S25 BT.

A cedar, 7 ins. in diam., brs. N.  $13^{\circ}$  W., 13 lks. dist., marked T31N R13W S24 BT.

Land, gently rolling, mountainous and nearly level.  
Soil, heavy clay, 2nd and 4th rates.  
Timber, cedar and pinyon.  
Undergrowth, sagebrush, cinchona, algerita, scrub oak, and rabbit brush.

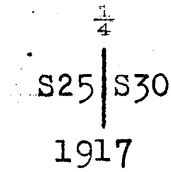
South, on true line, bet. secs. 25 and 30.  
Over nearly level land, thru. dense undergrowth and timber on bench, known as Twin Point.



Survey of West boundary of Township 31 North, Range 12 West. 7

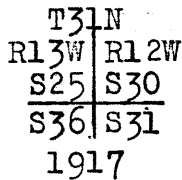
Chains.

- 25.97 Descend 55 ft., over E. and SE. slopes.
- Center of draw, 100 lks. wide, course E.
- 40.00 Ascend 25 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,



- from which,
- A cedar, 5 ins. in diam., brs. S.  $21\frac{1}{2}^\circ$  E., 19 lks. dist., marked  $\frac{1}{4}$ S 30 BT.
- A cedar, 7 ins. in diam., brs. N.  $59^\circ$  W., 5 lks. dist., marked  $\frac{1}{4}$ S 25 BT.

- 55.00 Ascend 12 ft., over E. slope.
- 80.00 Descend 25 ft., over SE. and S. slopes, to
- 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, marked on brass cap,



- from which,
- A cedar, 10 ins. in diam., brs. N.  $11\frac{1}{2}^\circ$  E., 48 lks. dist., marked T31N R12W S30 BT.
- A cedar, 5 ins. in diam., brs. S.  $41^\circ$  E., 45 lks. dist., marked T31N R12W S31 BT.
- A cedar, 5 ins. in diam., brs. S.  $23\frac{1}{2}^\circ$  W., 25 lks. dist., marked T31N R13W S36 BT.
- A cedar, 12 ins. in diam., brs. N.  $75^\circ$  W., 67 lks. dist., marked T31N R13W S25 BT.

Land, nearly level.  
 Soil, heavy clay loam,, 2nd rate.  
 Timber, cedar and pinyon.  
 Undergrowth, sagebrush, cinchona, manzanita, scrub oak and rabbit brush.

- 25.00 South, on true line, bet. secs. 31 and 36.
- Over gently rolling bench land, thru. dense timber and undergrowth.
- 28.75 Descend 44 ft., over S. and SE. slopes, to
- Rim of gulch, brs. NW. and SE. Enter mountainous land.
- 34.60 Descend 90 ft., over S. slope.
- 39.80 Bottom of gulch, course S.  $45^\circ$  E.
- 40.00 Ascend 51 ft., over NE. slope.
- Point of spur, slopes SE.
- 44.58 Descend 110 ft., over S. slope.
- 69.60 Wash, 10 lks. wide in bottom of gulch, course E.
- Ascend 11 ft., over N. slope, to
- 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., marked on brass cap,



- No bearing trees available.
- Raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
- 44.58 Ascend 113 ft., over steep N. slope, to
- Top of steep ascent, brs. E. and W. Enter gently rolling land.
- 69.60 Ascend 49 ft., over NE. and E. slopes.
- Descend 13 ft., over SE. slope.

8 Survey of West boundary of Township 31 North, Range 12 West.

Chains.

76.04 Draw, course E. near head.

Ascend 16 ft., over NE. slope, to

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for cor. of Ts. 30 and 31 N., Rs. 12 and 13 W., marked on brass cap,

T31N	
R13W	R12W
S36	S31
S 1	S 6
T30N	
1917	

from which,

A cedar, 10 ins. in diam., brs. N. 49° E., 243 lks. dist., marked T31N, R12W S31 BT.

A cedar, 5 ins. in diam., brs. S. 6° E., 91 lks. dist., marked T30N R12W S6 BT.

A cedar, 4 ins. in diam., brs. S. 21½° W., 29 lks. dist., marked BT.

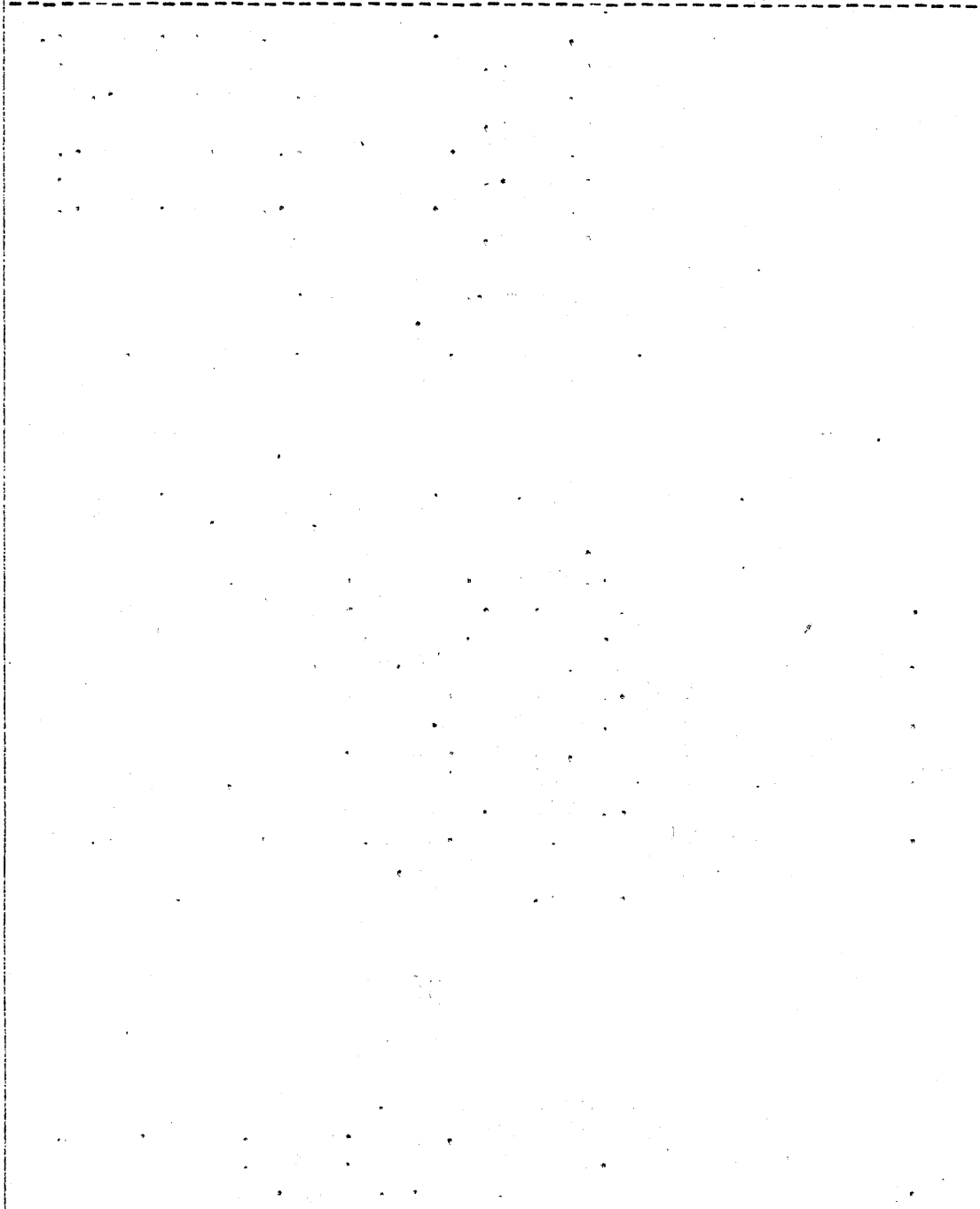
A cedar, 5 ins. in diam., brs. N. 84° W., 61 lks. dist., marked T31N R13W S36 BT.

Land, gently rolling and mountainous.

Soil, clay loam, 1st and 2nd rate.

Timber, cedar and pinyon.

Undergrowth, sagebrush, cinchona, scrub oak, manzanita, sarvis brush and rabbit brush.



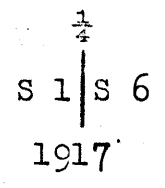
Chains.

From the cor. of Ts. 31 and 32 N., Rs. 11 and 12 W., described in Book "A" of this group, South, on true line, bet. secs. 1 and 6. Over gently rolling land, thru dense timber and scattering undergrowth.

0.50 Descend gradually over SE slope. Fence cor. brs. E. 50 lks. dist. from which fences extend E. and S.

31.40 Shallow wash, 40 lks. wide, course E.

40.00 Ascend gradually 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,

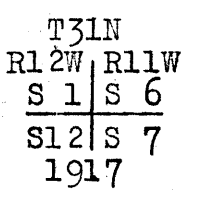


from which, A cedar, 14 ins. in diam., brs. N. 72° E., 32 lks. dist., marked  $\frac{1}{4}$  S 6 BT. A cedar, 24 ins. in diam., brs. S. 72° W., 85 lks. dist., marked  $\frac{1}{4}$  S 1 BT.

Continue over gently rolling land, parallel to fence about 50 lks. E. of line.

55.00 Ascend gradually over E. slope. Descend gradually over SE slope, to 79.60 Shallow wash, 30 lks. wide, course SE.

80.00 Ascend slightly over NE slope, to 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, with brass cap, marked



from which, A yellow pine, 14 ins. in diam., brs. S. 58 1/4° W., 115 lks. dist., marked T31N R12W S12 BT. A cedar, 8 ins. in diam., brs. N. 67 1/4° E., 54 lks. dist., marked T31N R11W S6 BT. A cedar, 8 ins. in diam., brs. S. 18 1/2° E., 18 lks. dist., marked T31N R11W S7 BT. A yellow pine, 18 ins. in diam., brs. N. 73° W., 145 lks. dist., marked T31N R12W S1 BT.

Land, gently rolling. Soil, sandy loam, 3rd rate. Timber, cedar, pinyon and yellow pine. Undergrowth, sage brush, greasewood and black brush.

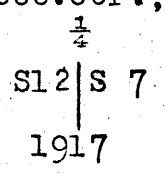
South, on true line, bet. secs. 7 and 12. Over gently rolling land, thru dense timber and scattering undergrowth.

0.50 Ascend 55 ft., over NE slope. Fence cor. brs. E. 50 lks. dist., from which fences extend E. and N.

15.00 Descend 32 ft., over SE slope.

24.00 Shallow wash, course S. 70° E.

40.00 Ascend 44 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,



## BOOK 3642

10 Survey of East boundary of Township 31 North, Range 12 West.

Chains.

from which,  
 A cedar, 14 ins. in diam., brs. N. 13° E., 91 lks.  
 dist., marked  $\frac{1}{4}$  S 7 BT.  
 A cedar, 8 ins. in diam., brs. S. 33 $\frac{1}{2}$ ° W., 158 lks.  
 dist., marked  $\frac{1}{4}$  S 12 BT.  
 80.00 Descend gradually over SE. and S. slopes, to  
 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in  
 the ground, for cor. of secs. 7, 12, 13 and 18, marked on  
 brass cap,

T31N	
R12W	R11W
S12	S 7
S13	S18
1917	

from which,  
 A cedar, 8 ins. in diam., brs. N. 38° E., 79 lks.  
 dist., marked T31N R11W S7 BT.  
 A cedar, 26 ins. in diam., brs. S. 37° E., 41 lks.  
 dist., marked T31N R11W S18 BT.  
 A cedar, 12 ins. in diam., brs. S. 27° W., 47 lks.  
 dist., marked T31N R12W S13 BT.  
 A cedar, 14 ins. in diam., brs. N. 82 $\frac{1}{4}$ ° W., 139 lks.  
 dist., marked T31N R12W S12 BT.

Land, gently rolling.  
 Soil, clay and sand, 3rd rate.  
 Timber, cedar, pinyon and yellow pine.  
 Undergrowth, sagebrush, greasewood and black brush.

-----  
 South, on true line, bet. secs. 13 and 18.  
 16.70 Over gently rolling land, thru. dense timber and undergrowth.  
 Wash, 20 lks. wide, course S. 70° E. Leave timber and under-  
 growth, brs. E. and W.; thence across level open land.  
 35.00 Enter dense timber and undergrowth, brs. E. and W. Leave  
 level, and enter gently rolling land.  
 Ascend gradually 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,

$\frac{1}{4}$	
S13	S18
1917	

from which,  
 A cedar, 24 ins. in diam., brs. S. 28° W., 165  
 lks. dist., marked  $\frac{1}{4}$  S 13 BT.  
 A cedar, 12 ins. in diam., brs. S. 66 $\frac{1}{4}$ ° E., 57  
 lks. dist., marked  $\frac{1}{4}$  S 18 BT.  
 Ascend gradually over NE. slope.  
 62.00 Descend gradually over SE. slope, to  
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 12 ins. in  
 the ground, to bed rock, supported in mound, of stone,  
 for cor. of secs. 13, 18, 19 and 24, marked on brass cap,

T31N	
R12W	R11W
S13	S18
S24	S19
1917	

from which,  
 A cedar, 22 ins. in diam., brs. N. 61° E., 140 lks.  
 dist., marked T31N R11W S18 BT.  
 A cedar, 22 ins. in diam., brs. S. 10° E., 143 lks.  
 dist., marked T31N R11W S19 BT.  
 A cedar, 24 ins. in diam., brs. S. 9° W., 29 lks.  
 dist., marked T31N R12W S24 BT.

Chains.

A cedar, 30 ins. in diam., brs. N. 50° W., 82 lks.  
 dist., marked T31N R12W S13 BT.  
 Land, gently rolling.  
 Soil, sandy loam, 3rd rate.  
 Timber, cedar, pinyon and yellow pine.  
 Undergrowth, sagebrush, greasewood and black brush.

South, on true line, bet. secs. 19 and 24.  
 Over nearly level land, thru dense timber and undergrowth.  
 .30 Shallow wash, course SW.  
 Descend slightly over SW. slope, to  
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 14 ins. in the  
 ground to bed rock, supported in a mound of stone, for  
 ¼ sec. cor., marked on brass cap,

¼  
 S24 | S19  
 1917

from which,  
 A cedar, 6 ins. in diam., brs. S. 81° E., 57 lks.  
 dist., marked ¼ S 19 BT.  
 A cedar, 10 ins. in diam., brs. N. 17½° W., 61 lks.  
 dist., marked ¼ S 24 BT.  
 Continue over nearly level land.  
 Descend slightly over SW. and S. slope, to  
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in  
 the ground, for cor. of secs. 19, 24, 25 and 30, marked on  
 brass cap,

T31N  
 R12W | R11W  
 S24 | S19  
 S25 | S30  
 1917

from which,  
 A cedar, 6 ins. in diam., brs. N. 13° E., 37 lks.  
 dist., marked T31N R11W S19 BT.  
 A cedar, 14 ins. in diam., brs. S. 56° E., 70 lks.  
 dist., marked T31N R11W S30 BT.  
 A cedar, 18 ins. in diam., brs. S. 10° W., 22 lks.  
 dist., marked T31N R12W S25 BT.  
 A cedar, 24 ins. in diam., brs. N. 61° W., 7 lks.  
 dist., marked T31N R12W S24 BT.  
 Land, nearly level.  
 Soil, sandy loam, 3rd rate.  
 Timber, cedar, pinyon and yellow pine.  
 Undergrowth, sagebrush, greasewood and black brush.

South, on true line, bet. secs. 25 and 30.  
 Over nearly level land, thru dense timber and undergrowth.  
 Descend slightly over S. slope, to  
 7.00 Shallow wash, course SW.  
 Descend slightly over SW. slope.  
 15.75 Trail, brs. SE. and NW.  
 30.00 East, or left rim of canyon, brs. NW and SE. Enter moun-  
 tainous land.  
 Descend 128 ft., over steep SW. slope, to  
 36.10 Top of cliff, brs. NW. and SW. facing W.  
 Ascend 55 ft., over NW. slope, to  
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 8 ins. in  
 the ground to bed rock, supported in a mound of stone  
 for ¼ sec. cor., marked on brass cap,

¼  
 S25 | S30  
 1917

## BOOK 3642

## 12 Survey of East boundary of Township 31 North, Range 12 West.

Chains.

from which,

A pinyon, 14 ins. in diam., brs. N. 64° E., 51 lks.  
dist., marked  $\frac{1}{4}$  S 30 BT.A cedar, 6 ins. in diam., brs. S. 32° W., 50 lks.  
dist., marked  $\frac{1}{4}$  S 25 BT.Thence, over precipitous limestone cliffs facing SW.  
Descend 634 ft., to54.50 Enter bottom of rocky canyon, course S. from N. 20° W.  
Descend 218 ft., to66.00 Leave bottom of canyon, course S. 30° E. from N.  
Descend 203 ft., over steep SE. slope, to80.00 Set an iron post, 3 ft. long, 2 ins. 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  
cor. of secs. 25, 30, 31 and 36, marked on brass cap,

T31N	
R12W	R11W
S25	S30
S36	S31
1922	

from which,

An oak, 8 ins. in diam., brs. N. 50° E., 58 lks.  
dist., marked T31N R11W S30 BT.

No other bearing trees available.

Land, nearly level and mountainous.

Soil, rocky, 4th rate.

Timber, oak, cedar and pinyon.

Undergrowth, sagebrush, black brush, cacti and scrub oak.

-----  
South, on true line, bet. secs. 31 and 36.Over mountainous land, thru dense timber and scattering  
undergrowth..20 Descend slightly over SE. slope, to  
Bottom of canyon, course SW.5.00 Descend 85 ft., over steep SW. slope, to  
Enter same canyon bottom, course S. from NW.13.00 Descend 126 ft., to  
Leave canyon bottom, course S. 30° E. from N.40.00 Descend 215 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 in a mound of stone,  
for  $\frac{1}{4}$  sec. cor., marked on brass cap,

↑	
S36	S31
1922	

from which,

A pinyon, 8 ins. in diam., brs. S. 6° W., 100  
lks. dist., marked  $\frac{1}{4}$  S 36 BT.No other bearing trees available. Raise a mound of stone  
3 ft. base, 2 ft. high, W. of cor.

Descend 27 ft., over steep E. slope.

44.10 Ascend 15 ft., over NE. slope.

47.90 Descend 50 ft., over NE. slope.

52.14 Bottom of gulch, 30 lks. wide, course E.

Ascend 45 ft., over N. slope.

53.65 Descend 61 ft., over steep E. slope.

56.50 Ascend 31 ft., over NE. slope.

59.90 Descend 49 ft., over E. slope.

69.05 Ascend 20 ft., over NE. slope.

73.55 Spur, slopes S. 70° E.

Descend 50 ft., over SE. slope.

77.90 Ascend 22 ft., over NE. slope.

79.80 Spur, slopes SE.

Descend slightly over S. slope, to

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in

Survey of East boundary of Township 31 North, Range 12 West. 13

Chains.

the ground, for cor. of Ts. 30 and 31 N., Rs. 11 and 12 W., marked on brass cap,

T31N	
R12W	R11W
S36	S31
S 1	S 6
T30N	
1922	

from which,

A pinyon, 7 ins. in diam., brs. N. 13° E., 22 lks. dist., marked T31N R11W S31 BT.

A pinyon, 7 ins. in diam., brs. S. 7½° E., 55 lks. dist., marked T30N R11W S6 BT.

A cedar, 8 ins. in diam., brs. S. 80° W., 39 lks. dist., marked T30N R12W S1 BT.

A cedar, 8 ins. in diam., brs. N. 30° W., 40 lks. dist., marked T31N R12W S36 BT.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, cedar and pinyon.

Undergrowth, black brush, sagebrush, greasewood and cacti.



# BOOK 3642

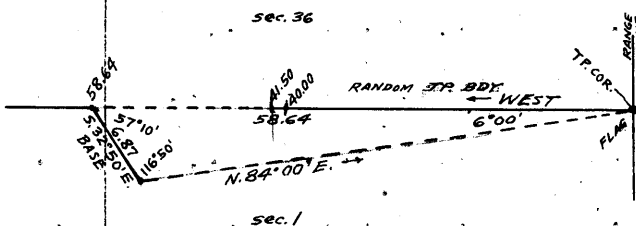
## 14 Survey of South boundary of Township 31 North, Range 12 West.

Chains.

From cor. of Ts. 30 and 31 N., Rs. 11 and 12 W., hereinbefore described,  
West, on random line, setting temp. cors. at intervals of 40.00 chs.

40.00 Set temp.  $\frac{1}{4}$  sec. cor. of secs. 1 and 36.

41.50 Bottom of canyon, course SE. Beyond this point, the line passes over cliffs, facing E., where chaining is impracticable; therefore, discontinue chaining at this point, and triangulate as described as follows:



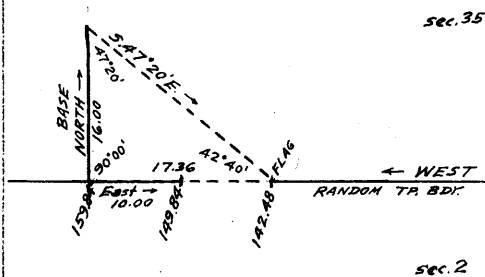
Set flag on the cor. of Ts. 30 and 31 N., Rs. 11 and 12 W. From a point ahead on random Tp. bdy., at top of cliffs, measure a Base S.  $32^{\circ}50'E.$ , 6.87 chs.

This is as long a Base as it is practicable to chain.

From SE. end of Base, the flag brs. N.  $84^{\circ}00'E.$   
From NW. end of Base, the vertical angle to flag is  $-12^{\circ}$   
and to bottom of canyon at 41.50 ch. station is  $-47^{\circ}$ .  
Distance triangulated = 58.64 chs. West.

58.64 Triangulation point 823 ft. above Tp. cor. Continue line and measurement by chaining.

142.48 Top of cliffs, bearing N. and S. facing W. Precipitous descent over these cliffs render chaining impracticable; therefore, triangulate as follows:



Set flag on line at this point.

From a point ahead on random Tp. bdy. beyond foot of cliff, measure a Base North, 16.00 chs.

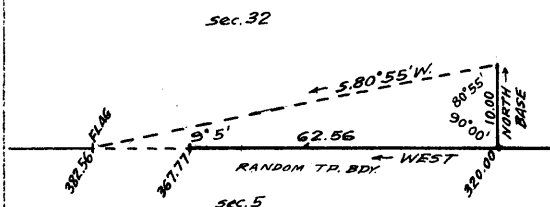
From North end of Base, the flag brs. S.  $47^{\circ}20'E.$

From S. end of Base, the vertical angle to flag is  $+42^{\circ}$ .

Distance on random Tp. bdy. = 142.48 chs. West.  
Distance triangulated = 17.36 chs. West.  
Total distance = 159.84 chs. West.  
By return measurement = 10.00 chs. East.  
149.84 chs. West.

149.84 Foot of cliffs, bearing N. and S. facing W. Continue line and measurement by chaining.

367.77 Foot of cliffs, bearing NE. and SW. facing E. Precipitous ascent over these cliffs renders chaining impracticable; therefore, triangulate as follows:



Set flag ahead on random Tp. bdy. at top of cliffs.

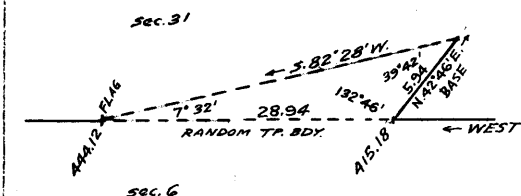
From temp. cor. of secs. 4, 5, 32 and 33, measure a Base North, 10.00 chs.

From N. end of Base, the flag brs. S.  $80^{\circ}55'W.$

Dist. on random Tp. bdy. = 320.00 chs. West.  
Dist. triangulated = 62.56 chs. West.  
Total distance, = 382.56 chs. West.

382.56 Triangulation point at top of cliffs. Continue line and measurement by chaining.

415.18 Right rim of canyon, brs. N.  $40^{\circ}E.$  and S.  $40^{\circ}W.$  Precipitous slopes in this canyon prevent continuation of chaining; therefore, triangulate as follows:



Measure a Base, N.  $42^{\circ}46'E.$ , 5.94 chs.

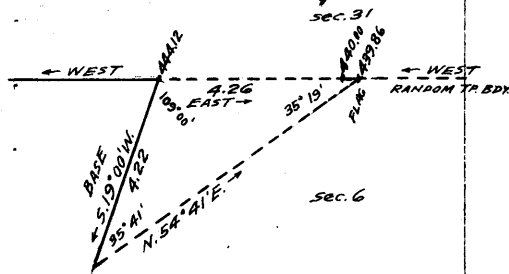
Set flag ahead on random Tp. bdy. at top of cliffs on W. side of canyon, the vertical angle to which is  $-5^{\circ}$ .



Survey of South boundary of Township 31 North, Range 12 West. 15

Chains.

From NE. end of Base, the flag brs. S. 82° 28' W.  
 Dist. on random Tp. bdy. = 415.18 chs. West.  
 Dist. triangulated, = 28.94 chs. West.  
 Total distance = 444.12 chs. West.  
 The point for temp.  $\frac{1}{4}$  sec. cor. of secs. 6 and 31 falls in this canyon, and to obtain measurement thereto, triangulate as follows:



From triangulation point at 444.12 ch. station on random Tp. bdy., measure a Base, S. 19° W., 4.22 chs.  
 Set flag on random Tp. bdy. in the canyon at approximately the point for  $\frac{1}{4}$  sec. cor.  
 From SW. end of Base, the flag brs. N. 54° 41' E.  
 From NE. end of Base, the vertical angle to flag is -45°.  
 Dist. on random Tp. bdy. = 444.12 chs. West.  
 Dist. triangulated = 4.26 chs. East.  
 439.86 chs. West.

- 439.86 Triangulation point. Chain measurement West, 0.14 chs. to
- 440.00 Set temp.  $\frac{1}{4}$  sec. cor. of secs. 6 and 31. Discontinue chaining.
- 444.12 Measurement by triangulation to Triangulation point on West side of canyon. Continue line and measurement by chaining.
- 479.16 Fall 30 lks. N. of the cor. of Ts. 30 and 31 N., Rs. 12 and 13 W., hereinbefore described. This falling answers to a correction of 0° 2' or 5 lks. S. per mile, counting from the SE. cor. of T. 31 N., R. 12 W.  
 From cor. of Ts. 30 and 31 N., Rs. 12 and 13 W., N. 89° 58' E., on true line, bet. secs. 6 and 31.  
 Over gently rolling land, thru. dense timber and undergrowth.
- 30.00 Descend gradually over NE. slope, to Left rim of canyon, brs. N. and S. Enter mountainous land.
- 35.04 Descend 168 ft., over steep E. slope, to Top of perpendicular cliff, 200 ft. high, bearing N. and S., facing E.  
 Discontinue chaining. Measurement to  $\frac{1}{4}$  sec. cor. by triangulation hereinbefore described.
- 39.16 Descend 330 ft., to Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the ground to bed rock, supported in a mound of stone, for  $\frac{1}{4}$  sec. cor., marked on brass cap,

S 31  
 $\frac{1}{4}$  S 6  
 1922

from which,  
 A pinyon, 10 ins. in diam., brs. N. 44° E., 40 lks. dist., marked  $\frac{1}{4}$  S. 31 BT.

- No other bearing tree available.
- Raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.
- Continue line and measurement by chaining.
- 39.30 Triangulation point. Continue chaining.
- 44.75 Descend 50 ft., over E. slope, to Wash, 30 lks. wide, course N. 15° E. in bottom of canyon. Discontinue chaining. Measurement to right rim of canyon by triangulation, hereinbefore described.
- 63.98 Ascend 555 ft., over precipitous NW. slope, to Right rim of canyon, brs. N. 44° E. and S. 44° W. Continue line and measurement by chaining. Leave canyon. Enter gently rolling bench land.
- 79.16 Descend slightly over N. slope, to 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. 5, 6, 31 and 32, marked on brass cap,

16 Survey of South bdy. of Township 31 North, Range 12 West.

Chains.

T31N	R12W
S31	S32
S 6	S 5
T30N	R12W
1922	

from which,

A cedar, 6 ins. in diam., brs. S. 30° E., 9 lks. dist., marked T30N R12W S5 BT.

A cedar, 8 ins. in diam., brs. S. 8° W., 20 lks. dist., marked T30N R12W S6 BT.

A cedar, 4 ins. in diam., brs. N. 35° W., 46 lks. dist., marked BT.

No other bearing tree available.

Land, gently rolling and mountainous.

Soil, rocky, 4th rate.

Timber, cedar, and pinyon.

Undergrowth, greasewood, scrub oak, sage brush and cacti.

N. 89° 58' E., on a true line, bet. secs. 5 and 32.

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

Descend slightly over N. slope.

1.60 Draw, course N.

Descend slightly over N. slope, to

17.44 Triangulation point at top of cliffs, bearing N. and S. facing E. Enter mountainous land. Discontinue chaining. Measurement to foot of cliffs by triangulation, hereinbefore described.

Descend 300 ft., over precipitous E. slope, to

32.23 Foot of same cliffs, brs. N. and S. Continue line and measurement by chaining.

Descend 125 ft., over steep SE. slope, to

39.50 Small wash, 20 lks. wide, course SE.

Descend slightly over S. slope, to

40.00 True point for  $\frac{1}{4}$  sec. cor. falls on slide rock, where it is impracticable to set monument; therefore, at

40.40 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,

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

No bearing trees available. Raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.

Descend 514 ft., over broken S. and SE. slopes, to

60.40 Descend 94 ft., over NE. slope.

62.30 Wash, 20 lks. wide, course S. 70° E.

Ascend 54 ft., over SW. slope.

65.00 Point of narrow spur, slopes SE.

Descend 80 ft., over SE. slope.

70.10 Wash, 10 lks. wide, course SE.

Descend 131 ft., over S. slope, to

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. 4, 5, 32 and 33, marked on brass cap,

T31N	R12W
S32	S33
S 5	S 4
T30N	R12W
1922	

No bearing trees available.

Land, W. 17 $\frac{1}{2}$  chs., gently rolling; remainder, mountainous.

Survey of South boundary of Township 31 North Range 12 West. 17

Chains.

Soil, rocky sandstone and limestone formation, 3rd rate.  
Timber, cedar and juniper.  
Undergrowth, sagebrush and cactus.

- 7.70 Descend 130 ft., over S. and SE. slopes.  
Wash, 20 lks. wide, course S. 30° E.
- 13.38 Ascend 125 ft., over steep SW. slope, to  
Top of cliff, 60 ft. high, bearing NW. and E. facing SW. Thence  
along top of cliff.
- 18.34 Ascend 40 ft. to  
Leave top of same cliff, brs. W. and SE. facing S. and SW.
- 24.20 Ascend 48 ft., over SW. slope.  
Ridge, brs. SE. and NW.
- 30.00 Descend 200 ft. over red sandstone cliffs, facing E.  
Head of gulch, course SE.
- 35.14 Descend 46 ft., over S. slope, to  
Spur, slopes SE.
- 37.50 Descend 80 ft., over E. slope, to  
Head of gulch, course SE.
- 40.00 Descend 20 ft., over S. slope, to  
Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the  
ground to bed rock, supported in a mound of stone, for  
1/4 sec. cor., marked on brass cap,

1/4 S 33
S 4
1922

from which,

- A pinyon, 14 ins. in diam., brs. S. 35° W., 51 lks.  
dist., marked 1/4 S 4 BT.
- A pinyon, 6 ins. in diam., brs. N. 27° W., 24 lks.  
dist., marked 1/4 S 33 BT.

- 41.90 Descend 20 ft., over S. slope, to  
Point of spur, slopes SE.
- 42.90 Descend 98 ft., over E. slope.  
Trail, brs. SW. and NE.
- 51.14 Bottom of gulch, 20 lks. wide, course SE.  
Ascend 20 ft., over SW. slope.
- 51.53 Point of spur, slopes S.  
Descend 30 ft., over SE. slope, to
- 53.60 Bottom of same gulch, course NE.  
Descend 28 ft., over NE. slope, to
- 58.00 Bottom of same gulch, course SE.  
Descend 120 ft., over broken S. and SE. slopes, to
- 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., on surface  
rock, supported in a mound of stone, for cor. of secs. 3,  
4, 33 and 34, marked on brass cap,

T31N   R12W
S33   S34
S 4   S 3
T30N   R12W
1922

from which,

- A pinyon, 4 ins. in diam., brs. N. 37° E., 26 lks.  
dist.; marked BT.
- A pinyon, 4 ins. in diam., brs. S. 71° E., 137 lks.  
dist.; marked BT.
- A pinyon, 14 ins. in diam., brs. S. 39° W., 90 lks.  
dist., marked T30N R12W S4 BT.
- A pinyon, 8 ins. in diam., brs. N. 61° W., 19 lks.  
dist., marked T31N R12W S33 BT.

Land, mountainous.  
Soil, rocky, sandstone formation, 3rd rate.

18 Survey of South boundary of Township 31 North Range 12 West.

Chains.

Timber, cedar and pinyon.  
Undergrowth, sagebrush and cacti.

N.89°58'E., on a true line, bet. secs.3 and 34.  
Over mountainous land in Twin Springs Canyon, thru. scattering timber and dense undergrowth.

- 3.00 Descend 40 ft., over SE.slope, to Top of cliff, 50 ft.high, bearing N.and S., facing E.
- 7.10 Descend 101 ft., over E.slope. Ascend 30 ft., over SW.slope.
- 8.50 Descend 124 ft., over SE.slope.
- 13.14 Twin Springs Wash, 50 lks.wide, course S. in bottom of canyon. Ascend 170 ft., over precipitous W. slope, to Top of cliff, 50 ft.high, bearing N.and S., facing W.
- 16.20 Ascend 331 ft., over W.slope, to
- 40.00 Set an iron post, 3 ft.long, 1 in. 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  $\frac{1}{4}$  sec.cor., marked on brass cap,

S 34
S 3
1922

No bearing trees available.

- 60.00 Ascend 256 ft., over broken W.slope, to Spur, slopes S.80°W. Ascend 231 ft., over SW.slope.
- 71.00 Descend 34 ft., over SE.slope.
- 75.20 Gulch, course SW. Ascend 125 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 in a mound of stone, for cor.of secs.2,3,34 and 35, marked on brass cap,

T31N   R12W
S34   S35
S 3   S 2
T30N   R12W
1922

from which,

A cedar, 4 ins. in.diam., brs.N.75°W., 5 lks. dist., marked BT.

No other bearing trees available.

Raise a mound of stone, 4 ft.base, 2 ft.high, W.of cor.

Land, mountainous.

Soil, rocky, 4th rate..

Timber, cedar and pinyon.

Undergrowth, scrub oak, sagebrush and cactus..

N.89°58'E., on true line, bet. secs. 2 and 35.  
Over mountainous land, thru. scattering timber and dense undergrowth.

- 0.16 Triangulation point. Continue line and measurement by chaining.
- 10.16 Ascend 180 ft., over steep NW.slope, to Foot of cliffs, bearing N.and S. facing W. Discontinue chaining. Measurement to top of cliffs by triangulation, hereinbefore described.
- 17.36 Ascend 850 ft., to Triangulation point at top of cliffs, bearing N.20°W.and S.20°E. facing W., and forming the E.or right rim of Twin Springs Canyon. Leave said canyon. Enter gently rolling land and dense timber. Continue line and measurement by chaining.

Survey of South boundary of Township 31 North, Range 12 West. 19

Chains.  
 20.10 Descend gradually over NE.slope to  $\frac{1}{4}$  sec.cor.  
 Trail, brs.N.and S.  
 29.30 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,

$\frac{1}{4}$  S 35  
 S 2  
 1922

from which,  
 A cedar, 14 ins.in diam., brs.N.71°E., 15 lks.  
 dist., marked  $\frac{1}{4}$  S 35 BT.  
 A cedar, 14 ins.in diam., brs.S.11°W., 32 lks.  
 dist., marked  $\frac{1}{4}$  S 2 BT.

Continue over gently rolling land, thru.dense timber and undergrowth.  
 76.00 Leave gently rolling land, and enter mountainous land.  
 Descend 20 ft., over S.slope, to  
 80.00 Set an iron post, 3 ft.long, 2 ins.in diam., 18 ins.in the ground to bed rock, supported in a mound of stone, for cor.of secs.1, 2, 35 and 36, marked on brass cap,

T31N | R12W  
 S35 | S36  
 S 2 | S 1  
 T30N | R12W  
 1922

from which,  
 A cedar, 6 ins.in diam., brs.N.70 $\frac{1}{2}$ °E., 52 lks.  
 dist., marked T31N R12W S36 BT.  
 A cedar, 8 ins.in diam., brs.S.61 $\frac{1}{2}$ °E., 135 lks.  
 dist., marked T30N R12W S1 BT.  
 A cedar, 8 ins.in diam., brs.S.2 $\frac{1}{4}$ °W., 61 lks.  
 dist., marked T30N R12W S2 BT.  
 A cedar, 6 ins.in diam., brs.N.67 $\frac{1}{2}$ °W., 46 lks.  
 dist., marked T31N R12W S35 BT.

Land, mountainous and gently rolling.  
 Soil, rocky, 4th rate, and sandy loam, 3rd rate.  
 Timber, cedar and pinyon.  
 Undergrowth, sagebrush, scrub oak and manzanita.

-----  
 N. 89° 58'E., on true line, bet. secs.1 and 36.  
 Over mountainous land, thru. dense timber and undergrowth.  
 Descend 38 ft., over S.slope.  
 10.00 Ascend 23 ft., over SW.slope.  
 15.00 Spur, slopes SE.  
 Descend 53 ft., over NE.slope, to  
 21.36 Triangulation point at W. or right rim of canyon, brs.NW. and SE. Discontinue chaining. Measurement to bottom of canyon by triangulation, hereinbefore described.  
 Desc. 1210 ft., over precipitous E.slope, to  
 38.50 Wash, 50 lks.wide, course SE. in bottom of canyon.  
 Continue line and measurement by chaining.  
 Ascend 15 ft., over SW.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 36  
 S 1  
 1922

from which,  
 An oak, 4 ins.in diam., brs.S. 12 lks.dist., marked BT.  
 No other bearing tree available.  
 A boulder in place, brs.N.15°E., 28 lks.dist., marked cross (x) on top and BO N.of cross.  
 Ascend 580 ft., over SW.slope.  
 53.40 Spur, slopes S.  
 Descend 186 ft., over SE.slope.

# BOOK 3642

20 Survey of South boundary of Township 32 North, Range 12 West.

Chains.

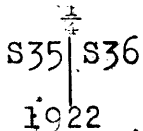
72.50 Wash, 20 lks. wide, course SE.  
 Ascend 51 ft., over SW. slope.  
 74.70 Descend 60 ft., over S. slope, to  
 80.00 The cor. of Ts. 30 and 31 N., Rs. 11 and 12 W., hereinbefore  
 described.  
 Land, mountainous.  
 Soil, rocky, 4th rate.  
 Timber, pinyon, cedar and oak.  
 Undergrowth, manzanita, sagebrush, cactus and scrub oak.

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Survey of Subdivision lines of Township 31 North, Range 12 West. 21

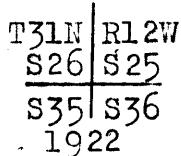
Chains.

- From the cor. of secs. 1, 2, 35 and 36, on S. bdy. of Tp., here-  
inbefore described,  
N. 0° 01' W., bet. secs. 35 and 36.
- Over mountainous land, thru. dense timber and undergrowth.
- Ascend 40 ft., over S. slope.
- 5.00 Spur, slopes E.
- Descend 240 ft., over NE. slope.
- 20.04 Bottom of gulch, 5 lks. wide, course E.
- Ascend 113 ft., over SE. slope.
- 24.80 Spur, slopes E.
- Descend 244 ft., over N. slope.
- 37.30 Bottom of gulch, 40 lks. wide, course SE.
- Ascend 84 ft., over S. slope, to
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the  
ground to bed rock, supported in a mound of stone, for  
1/4 sec. cor., marked on brass cap,



from which,

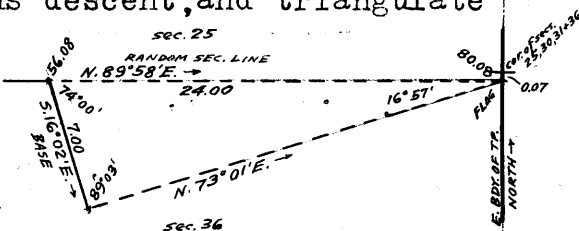
- A pinyon, 4 ins. in diam., brs. N. 86° E., 89 lks.  
dist., marked BT.
- A cedar, 12 ins. in diam., brs. S. 81° W., 210 lks.  
dist., marked 1/4 S 35 BT.
- Ascend 190 ft., over S. slope.
- 50.14 Point of spur, slopes SE.
- Descend 20 ft., over NE. slope, to
- 60.00 Descend 34 ft., over E. slope.
- 65.00 Ascend 46 ft., over SE. slope.
- 70.00 Descend 60 ft., over NW. slope.
- 79.30 Draw, 5 lks. wide, course NE.
- Ascend 5 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 in a mound of stone,  
for cor. of secs. 25, 26, 35 and 36, marked on brass  
cap,



from which,

- A cedar, 8 ins. in diam., brs. S. 60° E., 130 lks.  
dist., marked T31N R12W S36 BT.
- A cedar, 6 ins. in diam., brs. S. 1° W., 64 lks.  
dist., marked T31N R12W S35 BT.
- A cedar, 4 ins. in diam., brs. N. 76 1/2° W., 43 lks.  
dist., marked BT.
- A cedar, 4 ins. in diam., brs. N. 73° W., 48 lks.  
dist., marked BT.
- No trees available in sec. 25.
- Land, mountainous.
- Soil, rocky limestone formation, 3rd and 4th rate.
- Timber, cedar and pinyon.
- Undergrowth, black brush and scrub oak.

- N. 89° 58' E., on random line, bet. secs. 25 and 36.
- 40.00 Set temp. 1/4 sec. cor.
- 56.08 West, or right rim of canyon, brs. NW. and SE. Discontinue  
chaining owing to precipitous descent, and triangulate  
as described as follows:  
Measure a Base, S. 16° 02' E., 7.00  
chs. along rim of canyon.  
Set flag N. 89° 58' E. from 56.08  
ch. station, and 7 lks. S. of  
cor. of secs. 25, 30, 31 & 36 on  
E. bdy. of Tp.



## BOOK 3642

22 Survey of Subdivision lines of Township 31 North, Range 12 West.  
Chains.

- From SE. end of Base the flag brs. N. 73° 01' E.  
From NW. end of Base the vertical angle to flag is - 31°.  
Distance on random sec. line = 56.08 chs. N. 89° 58' E.  
Distance triangulated = 24.00 chs. N. 89° 58' E.  
Total length of sec. line = 80.08 chs. N. 89° 58' E.  
Descent in the triangulated distance = 952 ft.
- 80.08 Fall 7 lks. S. of the cor. of secs. 25, 30, 31 and 36 on E. bdy. of Tp., hereinbefore described.  
Thence,  
S. 89° 55' W., on true line, bet. secs. 25 and 36.  
Over mountainous land in canyon, thru. dense timber and undergrowth.  
Measurement by triangulation, as hereinbefore described.  
Ascend about 150 ft., over steep SE. slope, to  
9.00 (Approx.) Foot of cliffs, bearing N. and S., facing E.  
Ascend about 300 ft. to  
12.00 (Approx.) Top of cliffs, bearing N. and S. facing E., and top of spur, sloping SE.  
Descend about 150 ft., over SW. slope.  
17.00 (Approx.) Head of gulch, course SE.  
Ascend about 650 ft., over precipitous NE. slope, to  
24.00 Triangulation point at W. or right rim of canyon, bearing NW. and SE.  
Leave canyon, and enter rolling land. Continue line and measurement by chaining.  
Ascend 61 ft., over E. slope.  
24.35 Trail, brs. SE. and NW.  
31.75 Trail, brs. SE. and NW.  
32.60 Spur, slopes S.  
Descend 25 ft., over W. slope, to  
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 8 ins. in the ground to bed rock, supported in a mound of stone, for  $\frac{1}{4}$  sec. cor., marked on brass cap,
- $\frac{1}{4}$  S 25  
S 36  
1922
- from which,  
A cedar, 8 ins. in diam., brs. S. 66° E., 66 lks. dist., marked  $\frac{1}{4}$  S 36 BT.  
A pinyon, 4 ins. in diam., brs. N. 81° W., 60 lks. dist., marked BT.
- Descend slightly over W. slope, to  
41.30 Head of draw, course SW.  
Ascend 20 ft., over SE. slope.  
47.16 Top of long spur, slopes SW. Enter mountainous land.  
Descend 220 ft., over W. slope.  
63.84 Bend in bottom of gulch, 15 lks. wide, course SE. from SW., and joined at this point by another gulch, from NE.  
Ascend 40 ft., over SE. slope.  
64.77 Point of short spur, slopes S.  
Descend 47 ft., over SW. slope.  
67.60 Bottom of same gulch, 20 lks. wide, course SE.  
Ascend 210 ft., over E. slope.  
75.00 Point of spur, slopes NE.  
Descend 35 ft., over NW. slope.  
79.52 Draw, 5 lks. wide, course NE.  
Ascend 7 ft., over SE. slope, to  
80.08 The cor. of secs. 25, 26, 35 and 36.  
Land, mountainous and rolling.  
Soil, rocky, 4th rate.  
Timber, pinyon and cedar.  
Undergrowth, sagebrush, black brush and cactus.

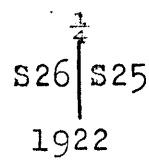
N. 0° 01' W., on true line, bet. secs. 25 and 26.  
Over mountainous land, thru. dense timber and undergrowth.  
Ascend 28 ft., over SE. slope.



Survey of Subdivision lines of Township 31 North, Range 12 West. 23

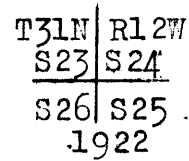
Chains.

- 3.80 Point of spur, slopes E.  
Descend 145 ft., over NE. slope.
- 9.84 Bottom of gulch, 20 lks. wide, course SE.  
Ascend 166 ft., over broken SW. slope.
- 19.10 Point of spur, slopes W.  
Descend 37 ft., over NW. slope.
- 25.30 Bottom of gully, 5 lks. wide, course SW.  
Ascend 59 ft., over S. slope, to
- 30.00 Rim of bench, brs. E and W. Thence over gently rolling  
bench land.
- 40.00 Ascend gradually 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,



from which,  
 A cedar, 8 ins. in diam., brs. S. 42° E., 19 lks.  
 dist., marked  $\frac{1}{4}$  S 25 BT.  
 A cedar, 6 ins. in diam., brs. S. 33° W., 48 lks.  
 dist., marked  $\frac{1}{4}$  S 26 BT.

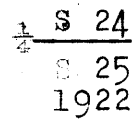
- Continue over gently rolling land, thru. dense timber and  
undergrowth.
- Ascend gradually over SW. slope to sec. cor.
- 52.00 Shallow draw, course SW.
- 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., on surface  
rock, supported in a mound of stone, for cor. of secs. 23,  
24, 25 and 26, marked on brass cap,



from which,  
 A cedar, 6 ins. in diam., brs. N. 87 $\frac{1}{2}$ ° E., 127  
 lks. dist., marked T31N R12W S24 BT.  
 A cedar, 10 ins. in diam., brs. S. 66° E., 72 lks.  
 dist., marked T31N R12W S25 BT.  
 A cedar, 6 ins. in diam., brs. S. 20° W., 13 lks.  
 dist., marked T31N R12W S26 BT.  
 A cedar, 12 ins. in diam., brs. N. 75° W., 90  
 lks. dist., marked T31N R12W S23 BT.

Land, S. 30 chs. mountainous; remainder, gently rolling.  
 Soil, limestone, 3rd rate.  
 Timber, cedar and pinyon.  
 Undergrowth, sagebrush, scrub oak and black brush.

- 40.00 N. 89° 55' E., on random line, bet. secs. 24 and 25.  
Set temp.  $\frac{1}{4}$  sec. cor.
- 80.02 Intersect the E. bdy. of the Tp., 9 lks. N. of the cor. of  
secs. 19, 24, 25 and 30, hereinbefore described.  
Thence,  
S. 89° 59' W., on true line, bet. secs. 24 and 25.  
Over nearly level land, thru. dense timber and undergrowth.
- 5.00 Descend slightly over S. slope, to  
Enter mountainous land.
- 8.30 Descend 50 ft., over NW. slope.  
Bottom of rocky gulch, 10 lks. wide, course SW.
- 10.00 Ascend 50 ft., over SE. slope.  
Enter gently rolling land.
- 40.01 Descend gradually 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,



## 24 Survey of Subdivision lines of Township 31 North Range 12 West.

Chains.

from which,

A cedar, 12 ins.in diam., brs. N. 64° E., 58 lks.  
dist., marked S 24 BT.A cedar, 18 ins.in diam., brs. S. 53° E., 47 lks.  
dist., marked S 25 BT.

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

Descend gradually over SW. slope to sec. cor.

45.00 Shallow draw, course SW.

80.02 The cor. of secs. 23, 24, 25 and 26.

Land, E. 5 chs., nearly level; W. 70 chs., gently rolling; remainder, mountainous.

Soil, rocky and sandy, 3rd rate.

Timber, cedar and pinyon.

Undergrowth, black brush and sagebrush.

N. 0° 1' W., bet. secs. 23 and 24.

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

Ascend gradually over SW. slope to  $\frac{1}{4}$  sec. cor.

2.50 Shallow wash, course SW.

7.00 Trail, brs. SW. and NE.

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

S23 | S24

1922

from which,

A cedar, 12 ins.in diam., brs. S. 62° E., 27 lks.  
dist., marked S 24 BT.A cedar, 10 ins.in diam., brs. N. 50° W., 38 lks.  
dist., marked S 23 BT.

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

Ascend gradually 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 in a mound of stone for cor. of secs. 13, 14, 23 and 24, marked on brass cap,

T31N | R12W

S14 | S13

S23 | S24

1922

from which,

A cedar, 14 ins.in diam., brs. N. 53° E., 140 lks.  
dist., marked T31N R12W S13 BT.A cedar, 14 ins.in diam., brs. S. 15° E., 100 lks.  
dist., marked T31N R12W S24 BT.A pinyon, 10 ins.in diam., brs. S. 59° W., 47 lks.  
dist., marked T31N R12W S23 BT.A cedar, 8 ins. in diam., brs. N. 63° W., 49 lks.  
dist., marked T31N R12W S14 BT.

Land, gently rolling.

Soil, rocky, 4th rate.

Timber, cedar and pinyon.

Undergrowth, black brush and sagebrush.

N. 89° 59' E., on random line, bet. secs. 13 and 24.

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

80.00 Intersect the E bdy. of the Tp., 7 lks. S. of the cor. of secs. 13, 18, 19 and 24, hereinbefore described.

Thence,

S. 89° 56' W., on true line, bet. secs. 13 and 24.

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

Survey of Subdivision lines of Township 31 North, Range 12 West. 25

Chains.

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

$\frac{1}{4}$  S 13  
S 24  
1922

from which,  
A cedar, 14 ins. in diam., brs. N. 77° E., 48 lks. dist., marked  $\frac{1}{4}$  S 13 BT.  
A cedar, 30 ins. in diam., brs. S. 75° E., 60 lks. dist., marked  $\frac{1}{4}$  S 24 BT.

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

80.00 Descend gradually over S. and SW. slopes, to The cor. of secs. 13, 14, 23 and 24. Land, gently rolling. Soil, rocky, 3rd rate. Timber, cedar and pinyon. Undergrowth, scrub oak, cactus and black brush.

N. 0° 01' W., bet. secs. 13 and 14. Over gently rolling land, thru. dense timber and undergrowth.

9.00 Ascend gradually over W. slope, to Rim, brs. E. and W. Enter mountainous land.  
10.30 Descend 37 ft., over N. slope. Bottom of gulch, 30 lks. wide, course W.  
15.00 Ascend 65 ft., over S. slope, to Rim, brs. E. and W. Thence over gently rolling land.  
40.00 Ascend gradually over SE. 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 14 | S 13  
1922

from which,  
A cedar, 14 ins. in diam., brs. N. 39° E., 43 lks. dist., marked  $\frac{1}{4}$  S 13 BT.  
A cedar, 18 ins. in diam., brs. S. 71° W., 16 lks. dist., marked  $\frac{1}{4}$  S 14 BT.

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

80.00 Ascend gradually over SE. slope, to Set an iron post, 3 ft. long, 2 ins. in diam., 12 ins. in the ground, on bed rock, in mound of stone, for cor. of secs. 11, 12, 13 and 14, marked on brass cap,

T 31 N | R 12 W  
S 11 | S 12  
S 14 | S 13  
1922

from which,  
A cedar, 4 ins. in diam., brs. N. 22° E., 41 lks. dist., marked BT.  
A cedar, 36 ins. in diam., brs. S. 86° E., 275 lks. dist., marked T 31 N R 12 W S 13 BT.  
A cedar, 8 ins. in diam., brs. S. 31° W., 79 lks. dist., marked T 31 N R 12 W S 14 BT.  
A cedar, 6 ins. in diam., brs. N. 80° W., 16 lks. dist., marked T 31 N R 12 W S 11 BT.

Land, 6 chs. mountainous; remainder, gently rolling. Soil, sandy and rocky, 3rd rate. Timber, pinyon and cedar.

## 26 Survey of Subdivision lines of Township 31 North, Range 12 West.

Chains.

Undergrowth, scrub oak, sagebrush and cacti.

- 
- N.89°56'E., on random line, bet. secs.12 and 13.  
 40.00 Set temp.  $\frac{1}{4}$  sec.cor.  
 80.00 Intersect the E. bdy.of the Tp., 12 lks.N.of the cor.of  
 secs.7,12,13 and 18, hereinbefore described.  
 Thence,  
 N.89°59'W., on true line, bet.secs.12 and 13.  
 Over gently rolling land, thru.dense timber and under-  
 growth.  
 Descend 22 ft., over S.slope.  
 9.00 Shallow draw, 10 lks.wide, course S.  
 Ascend 28 ft., over E.slope.  
 20.00 Center of top of low flat spur, sloping S.  
 Descend 45 ft., over W.slope.  
 34.50 Shallow draw, 20 lks.wide, course S.  
 Ascend gradually over SE.slope, to  
 40.00 Set an iron post, 3 ft.long, 1 in. in diam., 6 ins.in the  
 ground to bed rock, supported in a mound of stone, for  
 $\frac{1}{4}$  sec.cor., marked on brass cap,

$\frac{1}{4}$  S 12  
 S 13  
 1922

from which,

- A cedar, 8 ins.in diam., brs.N.34°E., 14 lks.  
 dist., marked  $\frac{1}{4}$ S 12 BT.  
 A cedar, 14 ins.in diam., brs.S.60 $\frac{1}{2}$ °E., 61 lks.  
 dist., marked  $\frac{1}{4}$ S 13 BT..  
 Descend slightly over S.slope.  
 43.00 Shallow wash, course SE. Enter rolling land.  
 Ascend 53 ft., over NE.slope.  
 60.00 Low spur, slopes SE.  
 Descend 90 ft., over SW.slope.  
 74.50 Shallow draw, course SE. Enter gently rolling land.  
 Ascend 25 ft., over SE.slope, to  
 80.00 The cor.of secs.11,12,13 and 14.  
 Land, gently rolling and rolling.  
 Soil, rocky, 4th rate.  
 Timber, cedar and pinyon.  
 Undergrowth, sagebrush and cactus.

N.0°1'W., bet. secs. 11 and 12.

Over gently rolling land, thru. dense timber and under-  
 growth.

- 6.85 Shallow draw, 10 lks.wide, course SE. Enter mountainous  
 land.  
 Ascend 235 ft., over SW.slope, to  
 40.00 Set an iron post, 3 ft.long, 1 in. in diam., 18 ins.in  
 the ground to bed rock, supported in a mound of stone,  
 for  $\frac{1}{4}$  sec.cor., marked on brass cap,

$\frac{1}{4}$   
 S11 | S12  
 1922

from which,

- A cedar, 4 ins.in diam., brs.S.56°E., 28 lks.  
 dist., marked BT.  
 A cedar, 14 ins.in diam., brs.N.28°W., 87 lks.  
 dist., marked  $\frac{1}{4}$ S 11 BT..  
 Ascend 375 ft., over SE.slope.  
 75.00 Spur, slopes S.80°E., from Mt. Dellenbaugh.  
 Desc. 17 ft., over NE.slope, to  
 80.00 Set an iron post, 3 ft.long, 2 ins.in diam., 8 ins. in the  
 ground to bed rock, supported in a mound of stone, for

Survey of Subdivision lines of Township 31 North, Range 12 West. 27

Chains.

cor. of secs. 1, 2, 11 and 12, marked on brass cap,

T31N	R12W
S 2	S 1
S11	S12
1922	

- from which,
- A cedar, 8 ins. in diam., brs. N. 35° E., 210 lks. dist., marked T31N R12W S1 BT.
- A cedar, 6 ins. in diam., brs. S. 53° E., 100 lks. dist., marked T31N R12W S12 BT.
- A cedar, 12 ins. in diam., brs. S. 36 1/4° W., 75 lks. dist., marked T31N R12W S11 BT.
- A cedar, 18 ins. in diam., brs. N. 35° W., 28 lks. dist., marked T31N R12W S2 BT.

Land, gently rolling and mountainous.  
 Soil, malpais formation, 4th rate.  
 Timber, pinyon and cedar.  
 Undergrowth, scrub oak, sagebrush and cactus.

- 40.00 S 89° 59' E., on random line, bet. secs. 1 and 12.
- 79.94 Set temp. 1/4 sec. cor.
- 79.94 Intersect the E. bdy. of the Tp., 21 lks. S. of the cor. of secs. 1, 6, 7 and 12, hereinbefore described.
- Thence,
- S. 89° 52' W., on true line, bet. secs. 1 and 12.
- Over gently rolling land, thru dense timber & Undergrowth.
- Ascend 115 ft., over E. slope, to
- 39.93 Set an iron post, 3 ft. long, 1 in. in diam., 16 ins. in the ground to bed rock, supported in a mound of stone, for 1/4 sec. cor., marked on brass cap,

1/4	S	1
	S	12
1922		

- from which,
- A cedar, 8 ins. in diam., brs. N. 20 1/2° E., 260 lks. dist., marked 1/4 S 1 BT.
- A pinyon, 12 ins. in diam., brs. S. 4° W., 186 lks. dist., marked 1/4 S 12 BT.

Enter mountainous land on E. side of Mt. Dellenbaugh.  
 Ascend 362 ft., over E. and NE. slopes, to  
 79.94 The cor. of secs. 1, 2, 11 and 12.  
 Land, E. 1/4, gently rolling; W. 1/4, mountainous.  
 Soil, rocky and sandy, 3rd and 4th rate.  
 Timber, cedar and pinyon.  
 Undergrowth, scrub oak, sagebrush and cactus.

- 40.00 N. 0° 1' W., on a random line, bet. secs. 1 and 2.
- 80.20 Set temp. 1/4 sec. cor.
- 80.20 Intersect the N. bdy. of the Tp., 5 lks. E. of the cor. of secs. 1, 2, 35 and 36, described in Book "A" of this Group.
- Thence,
- S. 0° 3' E., on true line, bet. secs. 1 and 2.
- Over rolling land, thru scattering timber and dense undergrowth.
- Ascend 118 ft., over NE. and E. slopes.
- 35.00 Descend 34 ft., over SE. slope, to
- 40.20 Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground to bed rock, supported in a mound of stone for 1/4 sec. cor., marked on brass cap,

1/4	S	2	S	1
1922				

from which,

# BOOK 3642

28 Survey of Subdivision lines of Township 31 North Range 12 West.

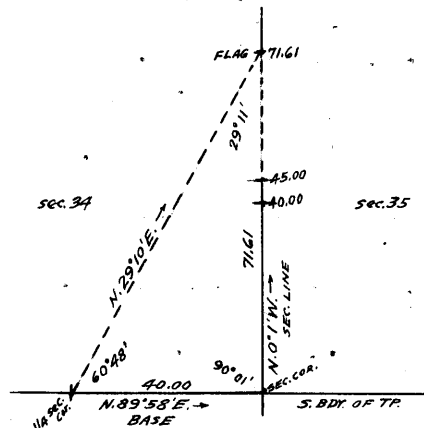
Chains.

A cedar, 6 ins. in diam., brs. N.  $12\frac{1}{4}^{\circ}$  E., 49 lks. dist., marked  $\frac{1}{4}$  S 1 BT.  
 A cedar, 6 ins. in diam., brs. N.  $35\frac{1}{2}^{\circ}$  W., 173 lks. dist., marked  $\frac{1}{4}$  S 2 BT.  
 Continue over rolling land, thru scattering timber, and dense undergrowth.  
 Ascend 50 ft., over NE. slope.  
 60.00 Enter mountainous land on E. side of Mt. Dellenbaugh.  
 Ascend 166 ft., over NE. and E. slopes, to  
 80.20 The cor. of secs. 1, 2, 11 and 12.  
 Land, rolling and mountainous.  
 Soil, sandy and rocky, 4th rate.  
 Timber; cedar and pinyon.  
 Undergrowth, sagebrush, scrub oak and cactus.

-----  
 From the cor. of secs. 2, 3, 34 and 35, on the S. bdy. of the Tp., hereinbefore described,  
 N.  $0^{\circ}1'W.$ , bet. secs. 34 and 35.  
 Over mountainous land on E. side of Twin Springs Canyon, thru scattering timber and dense undergrowth.  
 Descend 17 ft., over NW. slope.  
 .60 Bottom of gulch, course S.  $80^{\circ}W.$   
 Ascend 352 ft., over steep broken SW. slope.  
 16.70 Spur; slopes W.  
 Descend 26 ft., over NW. slope.  
 19.10 Ascend 230 ft., over steep W. slope, to  
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the ground to bed rock, deposit a stone marked with a cross (x) at base of post, and raise a mound of stone around post, for  $\frac{1}{4}$  sec. cor., marked on brass cap,

S34 | S35  
 1922

No bearing trees available.  
 45.00 Ascend 37 ft., over steep W. slope, to  
 Foot of cliffs bearing N.  $5^{\circ}W.$  and S.  $5^{\circ}E.$ , facing SW. Precipitous slopes beyond this point render continuation of chaining impracticable; therefore, triangulate as follows:



Set a flag ahead on sec. line at top of cliffs.  
 From the  $\frac{1}{4}$  sec. cor. of secs. 34 and 35, the vertical angle to flag is  $+10\frac{1}{2}^{\circ}$ .  
 From the  $\frac{1}{4}$  sec. cor. of secs. 3 and 34 on the S. bdy. of the Tp., the flag brs. N.  $29^{\circ}10'E.$   
 Use as a Base for this triangulation the E.  $\frac{1}{2}$  of line, bet. secs. 3 and 34, on S. bdy. of the Tp.  
 Dist. triangulated = 71.61 chs. N.  $0^{\circ}1'W.$

71.61 Triangulation point at top of cliffs, bearing N.  $5^{\circ}W.$  and S.  $45^{\circ}E.$ , facing SW. forming East or left rim of Twin Springs Canyon, 387 ft. above  $\frac{1}{4}$  sec. cor. Continue line and measurement by chaining.  
 Ascend 44 ft., over SW. slope, to  
 75.00 Leave mountainous, and enter gently rolling land.  
 Ascend slightly over S. slope, to  
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 26, 27, 34 and 35, with brass cap, marked

Survey of Subdivision lines of Township 31 North, Range 12 West. 29

Chains.

T31N	R12W
S27	S26
S34	S35

1922

from which,  
 A cedar, 8 ins. in diam., brs. N. 20° E., 7 lks.  
 dist., marked T31N R12W S26 BT.  
 A cedar, 10 ins. in diam., brs. S. 18° E., 33 lks.  
 dist., marked T31N R12W S35 BT.  
 A cedar, 12 ins. in diam., brs. S. 29° W., 18 lks.  
 dist., marked T31N R12W S34 BT.  
 A cedar, 10 ins. in diam., brs. N. 23° W., 27 lks.  
 dist., marked T31N R12W S27 BT.

Land, S. 75 chs., mountainous; N. 5 chs. gently rolling.  
 Soil, rocky, 4th rate.  
 Timber, cedar and pinyon.  
 Undergrowth, scrub oak, manzanita and cactus.

40.00 N. 89° 58' E., on random line, bet. secs. 26 and 35.  
 Set temp.  $\frac{1}{4}$  sec. cor.  
 80.06 Intersect N. and S. line, 10 lks. N. of the cor. of secs. 25,  
 26, 35 and 36.

Thence,  
 N. 89° 58' W., on true line, bet. secs. 26 and 35.  
 Over mountainous land, thru dense timber and undergrowth.  
 Ascend 76 ft., over SE. slope, to  
 8.10 Top of ascent, brs. NE and SW. Enter gently rolling land.  
 Ascend gradually over SE. slope to  $\frac{1}{4}$  sec. cor.  
 19.90 Head of gulch, course SE.  
 34.50 Head of gulch, course SE.  
 40.03 Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in  
 the ground to bed rock, supported in a mound of stone,  
 for  $\frac{1}{4}$  sec. cor., marked on brass cap,

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

1922

from which,  
 A cedar, 24 ins. in diam., brs. N. 22 $\frac{1}{2}$ ° E., 86  
 lks. dist., marked  $\frac{1}{4}$  S 26 BT.  
 A cedar, 12 ins. in diam., brs. S. 33° E., 50  
 lks. dist., marked  $\frac{1}{4}$  S 35 BT.

Continue over gently rolling land, thru dense timber and  
 undergrowth.  
 Ascend gradually over SE. slope.  
 46.40 Trail, brs. NW. and SE.  
 47.00 Head of gulch, course SE. Asc. gradually over SE. slope.  
 60.00 Descend gradually over S. slope, to  
 80.06 The cor. of secs. 26, 27, 34 and 35.  
 Land, E. 8 chs., mountainous; remainder, gently rolling.  
 Soil, rocky limestone formation, 4th rate.  
 Timber, cedar and pinyon.  
 Undergrowth, scrub oak and sagebrush.

30.00 N. 0° 01' W., bet. secs. 26 and 27.  
 Over gently rolling land, thru dense timber and under-  
 growth.  
 Ascend gradually over S. and SE. slopes.  
 39.17 Descend 38 ft., over NE. slope.  
 40.00 Draw, 5 lks. wide, course NE. Asc. 5 ft., over SE. slope, to  
 Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the  
 ground to bed rock, supported in a mound of stone, for  
 $\frac{1}{4}$  sec. cor., marked on brass cap,

S27	S26
-----	-----

1922

from which,

## BOOK 3642

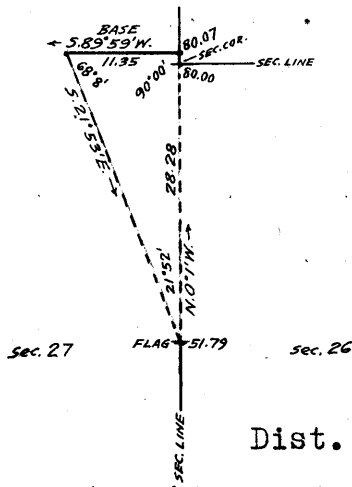
30 Survey of Subdivision lines of Township 31 North, Range 12 West.

Chains.

A cedar, 6 ins. in diam., brs. S. 13° E., 77 lks. dist., marked  $\frac{1}{4}$  S 26 BT.

A cedar, 4 ins. in diam., brs. S. 29° W., 72 lks. dist., marked BT. Asc. 20 ft. over SE. slope, to  
48.70 Top of ascent, brs. NE and SW. Leave gently rolling, and enter mountainous land.

Descend 54 ft., over NW. slope, to  
51.79 Top of cliffs, bearing E. and SW., facing N. and NW., forming rim of canyon. Precipitous descent beyond this point prevents continuation of chaining; therefore, triangulate, as described as follows:



Set flag at this point.

From a point ahead on sec. line, measure a Base S. 89° 59' W., 11.35 chs.

From West end of Base, the flag brs. S. 21° 53' E.

From E. end of Base, the vertical angle to flag is + 32°.

Dist. on sec. line = 51.79 chs. N. 0° 1' W.

Dist. triangulated = 28.28 chs. N. 0° 1' W.

Total distance = 80.07 chs. N. 0° 1' W.

Dist. by return measurement = 0.07 chs. S. 0° 1' E.

80.00 chs. N. 0° 1' W.

75.00 (Approx.) Wash, 40 lks. wide, in bottom of canyon, course NW.

Ascend about 60 ft., over SW. slope, to  
80.00 About 1165 ft. below 51.79 ch. station, Set a granite stone, 18x10x5 ins., 12 ins. in the ground, marked with 2 notches on each of S. and E. faces, for cor. of secs. 22, 23, 26 and 27, from which,

A pinyon, 4 ins. in diam., brs. N. 13° E., 52 lks. dist., marked BT.

A pinyon, 4 ins. in diam., brs. S. 71° E., 47 lks. dist., marked BT.

A pinyon, 6 ins. in diam., brs. S. 81° W., 140 lks. dist., marked T31N R12W S27 BT.

A pinyon, 8 ins. in diam., brs. N. 78° W., 41 lks. dist., marked T31N R12W S22 BT.

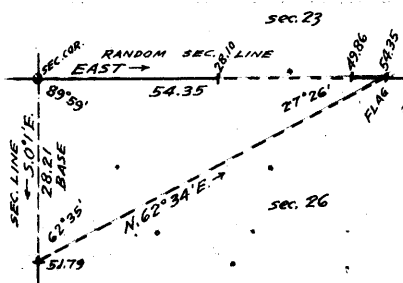
Land, gently rolling and mountainous.

Soil, rocky and sandy, 4th rate.

Timber, cedar and pinyon.

Undergrowth, sagebrush, cacti and scrub oak.

28.10 East, on random line, bet. secs. 23 and 26. Foot of cliffs, bearing N. and S., facing W. Beyond this point, chaining is impracticable; therefore, triangulate as described, as follows:



Set a flag ahead on random sec. line at rim of canyon.

From 51.79 ch. station on sec. line, bet. secs. 26 and 27, the flag brs. N. 62° 34' E.

The Base for this triangulation, on the sec. line, bet. secs. 26 and 27 is 80.00 chs. - 51.79 chs. = 28.21 chs., S. 0° 1' E.

Distance triangulated = 54.35 chs. East.

Dist. by return measurement = 4.49 chs. West.

49.86 chs. East.

40.00 Point for temp. sec. cor. falls on cliffs and is inaccessible.

49.86 Set temp. witness cor. to sec. cor.



Survey of Subdivision lines of Township 31 North, Range 12 West. 31

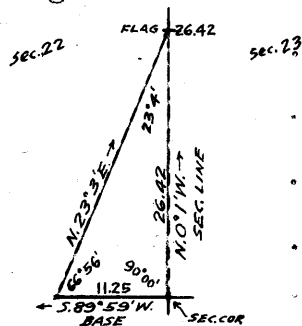
Chains.

Continue line and measurement by chaining.  
 54.35 Triangulation point. Continue chaining.  
 79.86 Intersect N. and S. line 14 lks. S. of the cor. of secs. 23, 24, 25 and 26.  
 Thence,  
 S. 89° 54' W., on true line, bet. secs. 23 and 26.  
 Over gently rolling land, thru. dense timber and undergrowth.  
 3.98 Descend 23 ft., over SW. slope, to Wash, 10 lks. wide, course SW.  
 Ascend 40 ft., over SE. slope.  
 10.00 Trail, brs. NE. and SW.  
 Descend gradually over SW. slope, to  
 25.51 Triangulation point at rim of canyon, brs. N. and S. Enter mountainous land. Continue chaining.  
 Descend 175 ft., over steep W. slope to  
 30.00 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 witness cor. to  $\frac{1}{4}$  sec. cor., marked on brass cap,  

$$\begin{array}{r} \text{WC} \frac{1}{4} \text{ S } 23 \\ \text{S } 26 \\ 1922 \end{array}$$
  
 from which,  
 A pinyon, 10 ins. in diam., brs. N. 51° E., 42 lks. dist., marked  $\frac{1}{4}$  S 23 WC BT.  
 A cedar, 6 ins. in diam., brs. S. 20° E., 25 lks. dist., marked  $\frac{1}{4}$  S 26 WC BT.  
 Discontinue chaining. Measurement to 51.76 ch. station by triangulation, as hereinbefore described.  
 34.00 Descend 350 ft., over vertical cliffs facing W. to (Approx.) Bottom of canyon, 30 lks. wide, course SW.  
 Ascend about 250 ft., over cliffs, facing SE.  
 39.93 True point for  $\frac{1}{4}$  sec. cor. falls on precipitous cliffs, and is inaccessible.  
 45.00 (Approx.) Point of sharp rocky spur, sloping SW.  
 Descend about 300 ft., over cliffs, bearing N. and S., facing W.  
 51.76 Foot of cliffs, brs. N. and S. Continue line and measurement by chaining.  
 Descend 384 ft., over steep W. slope, to  
 64.00 Junction of the bottom of two canyons from SE. and NE. Thence in bottom of canyon, 50 lks. wide, course W.  
 Descend 17 ft., to  
 66.00 Leave bottom of canyon, course SW.  
 Ascend 34 ft., over SE. slope.  
 69.00 Point of spur, slopes S.  
 Descend 55 ft., over SW. slope, to  
 79.86 The cor. of secs. 22, 23, 26 and 27.  
 Land, E. 25  $\frac{1}{2}$  chs., gently rolling; remainder, mountainous.  
 Soil, rocky, 4th rate.  
 Timber, cedar and pinyon.  
 Undergrowth, scrub oak and black brush.

N. 0° 1' W., bet. secs. 22 and 23.  
 Over mountainous land in canyon, thru. dense timber and undergrowth. Owing to precipitous ascent from sec. cor. to rim of canyon, chaining of such portion of the sec. line is impracticable; therefore, triangulate as described as follows:

Set flag ahead on sec. line at rim of canyon.  
 From cor. of secs. 22, 23, 26 & 27, measure a Base S. 89° 59' W., 11.25 chs.  
 From W. end of Base the flag brs. N. 23° 3' E.  
 From sec. cor., the vertical angle to flag is + 33°.

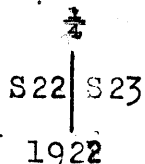


# BOOK 3642

## 32 Survey of Subdivision lines of Township 31 North, Range 12 West.

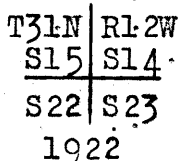
Chains.

- 26.42 Distance triangulated = 26.42 chs. N. 0°1' W.  
Ascent from sec. cor. to rim of canyon = 1130 ft.  
Triangulation point at east or left rim of Twin Springs Canyon, bearing NW. and SE. Continue line and measurement by chaining. Enter rolling land.
- 31.00 Ascend 32 ft., over SW. slope.
- 36.60 Descend 53 ft., over NW. slope.  
Draw, course W.
- 40.00 Ascend 8 ft., over SW. slope, to  
Set an iron post, 3 ft. long, 1 in. in diam., 8 ins. in the ground to bed rock, supported in a mound of stone, for  $\frac{1}{4}$  sec. cor., marked on brass cap.



- from which,
- A cedar, 18 ins. in diam., brs. S. 22 $\frac{1}{2}$ ° E., 76 lks.  
dist., marked  $\frac{1}{4}$ S 23 BT.
- A pinyon, 8 ins. in diam., brs. S. 76 $\frac{1}{2}$ ° W., 164 lks.  
dist., marked  $\frac{1}{4}$ S 22 BT.

- 45.10 Descend 40 ft., over N. slope.  
Draw, course W.
- 51.40 Ascend 65 ft., over SW. slope.  
Point of short spur, slopes W.
- 65.00 Descend 82 ft., over NW. slope.  
Draw, course SW.
- 80.00 Ascend 75 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 in a mound of stone, for cor. of secs. 14, 15, 22 and 23, marked on brass cap.



- from which,
- A cedar, 14 ins. in diam., brs. N. 55° E., 11 lks.  
dist., marked T31N R12W S14 BT.
- A pinyon, 8 ins. in diam., brs. S. 64° E., 86 lks.  
dist., marked T31N R12W S23 BT.
- A cedar, 18 ins. in diam., brs. S. 32° W., 145 lks.  
dist., marked T31N R12W S22 BT.
- A cedar, 4 ins. in diam., brs. N. 80° W., 38 lks.  
dist., marked BT.

Land, mountainous and rolling.  
Soil, rocky, 4th rate.  
Undergrowth, sagebrush, black brush and cactns.  
Timber, cedar and pinyon.

- 40.00 N. 89° 54' E., on a random line, bet. secs. 14 and 23.  
Set temp.  $\frac{1}{4}$  sec. cor.
- 79.90 Intersect N. and S. line, 20 lks. N. of the cor. of secs. 13, 14, 23 and 24.  
Thence,  
N. 89° 55' W., on true line, bet. secs. 14 and 23.  
Over gently rolling land, thru. dense timber and undergrowth.
- 14.30 Descend gradually over W. slope, to  
Rim, brs. NE. and SW. Enter mountainous land.
- 27.70 Descend 137 ft., over NW. slope.  
Bottom of gulch, 20 lks. wide, course SW.
- 35.40 Ascend 100 ft., over SE. slope.  
Point of spur, slopes SW.
- 38.54 Descend 82 ft., over W. slope.  
Bottom of gulch, 15 lks. wide, course S. (Water in pools).  
Ascend 45 ft., over E. slope, to

Survey of Subdivision lines of Township 31 North, Range 12 West. 33

Chains.

39.95 Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground to bed rock, supported in a mound of stone, for  $\frac{1}{4}$  sec. cor., marked on brass cap,

$\frac{1}{4}$  S 14  
S 23  
1922

from which,  
A cedar, 8 ins. in diam., brs. N. 41° E., 28 lks. dist., marked  $\frac{1}{4}$  S 14 BT.  
A pinyon, 4 ins. in diam., brs. S. 12° W., 15 lks. dist., marked BT.

46.40 Ascend 58 ft., over E. slope, to Rim, brs. N. and S.; thence over gently rolling land. Ascend gradually over SE. slope.

65.00 Enter rolling land.

79.90 Descend 83 ft., over SW. slope, to The cor. of secs. 14, 15, 22 and 23.

Land, gently rolling, rolling and mountainous. Soil, rocky, 4th rate. Timber, cedar and pinyon. Undergrowth, sagebrush and manzanita.

N. 0° 01' W., bet. secs. 14 and 15. Over rolling land, thru dense timber and undergrowth. Descend 30 ft., over W. slope, to

11.10 Draw, course W.

Ascend 26 ft., over SW. slope.

20.00 Descend 40 ft., over NW. slope.

25.00 Ascend 50 ft., over W. slope, to

32.40 Draw, course W.

Ascend 25 ft., over SW. slope, to

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

S15 | S14  
1922

from which,  
A cedar, 6 ins. in diam., brs. N. 74° E., 16 lks. dist., marked  $\frac{1}{4}$  S 14 BT.  
A cedar, 10 ins. in diam., brs. S. 40 $\frac{1}{2}$ ° W., 55 lks. dist., marked  $\frac{1}{4}$  S 15 BT.

Descend 30 ft., over NW. slope.

45.50 Draw, course SW.

Ascend 92 ft., over SW. slope, to

60.00 Ascend gradually over W. slope, to

73.30 Wash, 3 ft. deep, 10 lks. wide, course W.

Ascend 26 ft., over SW. slope, to

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 16 ins. in the ground to bed rock, supported in a mound of stone, for cor. of secs. 10, 11, 14 and 15, marked on brass cap,

T31N | R12W  
S10 | S11  
S15 | S14  
1922

from which,  
A cedar, 10 ins. in diam., brs. N. 18° E., 71 lks. dist., marked T31N R12W S11 BT.  
A cedar, 8 ins. in diam., brs. S. 8° E., 53 lks. dist., marked T31N R12W S14 BT.  
A cedar, 10 ins. in diam., brs. S. 55° W., 31 lks. dist., marked T31N R12W S15 BT.  
A cedar, 20 ins. in diam., brs. N. 51° W., 25 lks. dist., marked T31N R12W S10 BT.

## 34 Survey of Subdivision lines of Township 31 North, Range 12 West.

Chains.

Land, rolling.  
Soil, rocky, 4th rate.  
Timber, cedar.  
Undergrowth, sagebrush, scrub oak and sumach.

40.00 S.89°55'E., on random line, bet. secs.11 and 14.  
Set temp.  $\frac{1}{4}$  sec.cor.  
80.14 Intersect the cor.of secs.11,12,13 and 14.  
Thence,  
N.89°55'W., on true line, bet. secs.11 and 14.  
Over gently rolling land, thru.dense timber and scatter-  
ing undergrowth.  
Ascend gradually over SE. and S.slopes.  
20.00 Descend gradually over SW.slope, to  
40.07 Set an iron post, 3 ft.long, 1 in. in diam., 12 ins. in  
the ground to bed rock, supported in a mound of stone,  
for  $\frac{1}{4}$  sec.cor., marked on brass cap,

S 11  
S 14  
1922

from which,

A cedar, 18 ins. in diam., brs.S.32 $\frac{1}{2}$ °W., 79  
lks.dist., marked  $\frac{1}{4}$  S 14 BT.  
A cedar, 4 ins. in diam., brs.N.28°W., 41  
lks.dist., marked BT.

55.00 Descend gradually over SW.slope, to  
Enter rolling land.  
65.00 Descend 54 ft., over W.slope.  
Rocky wash, 10 lks.wide, course SW.  
Ascend 25 ft., over SE.slope.  
70.00 Descend 70 ft., over SW. slope, to  
80.14 The cor. of secs. 10,11,14 and 15.  
Land, gently rolling and rolling.  
Soil, rocky, 3rd and 4th rate.  
Timber, cedar and pinyon.  
Undergrowth, sage brush and scrub oak.

N.0° 01' W., bet. secs. 10 and 11.  
Over rolling land, thru.dense timber and undergrowth.  
Ascend gradually over SW.slope, to  
10.10 Wash, 10 lks.wide, 2 ft. deep, course SW.  
Ascend 100 ft., over SW. slope, to  
38.20 Wash, 15 lks.wide, 2 ft. deep, course SW.  
Ascend slightly over SW. 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,

S10 | S11  
1922

from which,

A cedar, 10 ins.in diam., brs.S.52 $\frac{1}{2}$ °E., 105 lks+  
dist., marked  $\frac{1}{4}$  S 11 BT.  
A cedar, 6 ins.in diam., brs.S.76 $\frac{3}{4}$ °W., 30 lks.  
dist., marked  $\frac{1}{4}$  S 10 BT.

80.00 Ascend 374 ft., over SW.slope, to  
Set an iron post, 3 ft.long, 2 ins.in diam., 26 ins. in  
the.ground, for cor.of secs. 2,3,10 and 11, marked on  
brass cap,

T31N | R12W  
S 3 | S 2  
S10 | S11  
1922

Survey of Subdivision lines of Township 31 North, Range 12 West. 35

Chains.

No bearing trees available. Raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.  
Land, rolling.  
Soil, rocky and sandy, 3rd rate.  
Timber, cedar and pinyon.  
Undergrowth, sagebrush, scrub oak and cactus.

40.00 S. 89°55'E., on random line, bet. secs. 2 and 11.  
Set temp. 1/4 sec. cor.  
79.92 Intersect the cor. of secs. 1, 2, 11 and 12.  
Thence,  
N. 89°55'W., on true line, bet. secs. 2 and 11.  
Over mountainous land, on E. side of Mt. Dellenbaugh, thru. dense timber and undergrowth.  
20.27 Ascend 293 ft., over NE. and E. slopes.  
South end of top of Mt. Dellenbaugh, The highest point in said mountain, brs. N. 4 chs. dist.  
39.96 Descend 250 ft., over SW. slope, to  
Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the ground to bed rock, supported in a mound of stone, for 1/4 sec. cor., marked on brass cap,

1/4 S 2  
S 11  
1922

from which,  
A cedar, 4 ins. in diam., brs. N. 82°E., 213 lks. dist., marked BT.  
A cedar, 6 ins. in diam., brs. S. 3°W., 62 lks. dist., marked 1/4 S 11 BT.

40.00 Head of draw, course S.  
Ascend 120 ft., over SE. slope.  
47.00 Spur, slopes S.  
Descend 347 ft., over SW. slope, to sec. cor.  
64.00 Enter rolling land.  
79.92 The cor. of secs. 2, 3, 10 and 11.  
Land, mountainous and rolling.  
Soil, rocky, 4th rate.  
Timber, cedar and pinyon.  
Undergrowth, scrub oak and sagebrush.

40.00 N. 0°3'W., on random line, bet. secs. 2 and 3.  
Set temp. 1/4 sec. cor.  
80.10 Intersect the N. bdy. of the Tp., 19 lks. W. of the cor. of secs. 2, 3, 34 and 35, described in Book "A" of this Group.  
Thence,  
S. 0°05'W., on true line, bet. secs. 2 and 3.  
Over rolling land, thru. scattering timber and dense undergrowth.  
Ascend 165 ft., over NW. slope to 1/4 sec. cor.  
1.50 Wash, 10 lks. wide, course NW.  
20.40 Wash, 10 lks. wide, course NW.  
30.00 Wash, 15 lks. wide, course NW.  
40.10 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 3 | S 2  
1922

from which,  
A cedar, 4 ins. in diam., brs. S. 7 1/2°E., 125 lks. dist., marked BT.  
A cedar, 6 ins. in diam., brs. S. 65 1/2°W., 89 lks. dist., marked 1/4 S 3 BT.

## 36 Survey of Subdivision lines of Township 31 North, Range 12 West.

Chains.

48.30 Ascend 52 ft., over NW.slope, to  
West fork of Parashont Wash, 20 lks.wide, course NW.Heads  
about 20 chs.SE.

65.00 Ascend 140 ft., over NW.slope.  
Top of ascent; thence along W.slope.  
Descend 11 ft.to

70.00 Descend 86 ft., over SW.slope, to

80.10 The cor.of secs.2,3,10 and 11.  
Land, rolling.  
Soil, rocky and sandy, 3rd rate.  
Timber, cedar and pinyon.  
Undergrowth, scrub oak, sagebrush and cactus.

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From the cor.of secs. 3,4, 33 and 34, on the S. bdy.of the  
Tp., hereinbefore described,  
N.0°2'W., bet. secs. 33 and 34.  
Over mountainous land, in Twin Springs Canyon, thru.dense  
timber, and scattering undergrowth.

22.00 Ascend 165 ft., over SE.slope.  
Point of spur, slopes E.

29.20 Descend 162 ft., over NE.slope.  
Bottom of side canyon, 80 lks.wide, course SE. Leave tim-  
ber.

40.00 Ascend 100 ft., over SE.slope.  
Set an iron post, 3 ft.long, 1 in.in diam., on surface  
rock, supported in a mound of stone, for  $\frac{1}{4}$  sec.cor.,  
marked on brass cap,

$\frac{1}{4}$   
 S33 | S34  
 1922

No bearing trees available. Raise a mound of stone, 3  
ft.base, 2 ft.high, W.of cor.

44.67 Descend 90 ft., over NE.slope.  
Bottom of Twin Springs Canyon, 90 lks.wide, course SE.

47.20 Ascend 70 ft., over SW.slope.  
Descend 27 ft., over NW.slope.

51.90 Ascend 30 ft., over SW.slope, to

58.00 Gulch, course SW.  
Ascend 70 ft., over SW.slope, to

75.00 Gulch, course SW.  
Ascend 20 ft., over SW.slope, to

80.00 Set an iron post, 3 ft.long, 2 ins. in diam., 24 ins. in  
the ground, for cor.of secs.27, 28, 33 and 34, marked  
on brass cap,

T31N | R12W  
 S28 | S27  
 S33 | S34  
 1922

from which,

- A cedar, 14 ins. in diam., brs. N.62 $\frac{1}{2}$ °E., 178 lks.  
dist., marked T31N R12W S27 BT.
- A cedar, 14 ins. in diam., brs. S.24 $\frac{1}{2}$ °E., 150 lks.  
dist., marked T31N R12W S34 BT.
- A cedar, 6 ins. in diam., brs. S.61°W., 108 lks.  
dist., marked T31N R12W S33 BT.
- A cedar, 14 ins. in diam., brs. N.62 $\frac{1}{2}$ °W., 175 lks.  
dist., marked T31N R12W S28 BT.

Land, mountainous.  
Soil, rocky, 4th rate.  
Timber, cedar and pinyon.  
Undergrowth, scrub oak, sagebrush and black brush.

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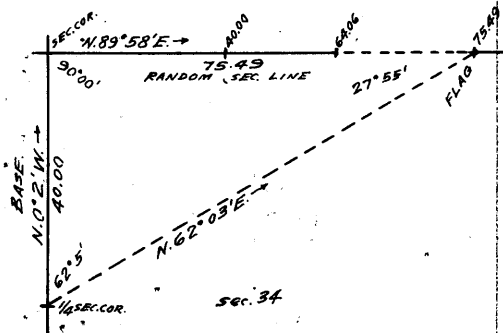
Survey of Subdivision lines of Township 31 North, Range 12 West. 37

Chains.

N.89° 58'E., on random line, bet. secs.27 and 34.  
 40.00 Set temp.  $\frac{1}{4}$  sec.cor.  
 64.06 Foot of cliffs, bearing N.and S. facing W. Precipitous ascent beyond this point prevents continuation of chaining; therefore, triangulate as follows:  
 Set flag ahead on random sec. line at top of cliffs.  
 From  $\frac{1}{4}$  sec.cor.of secs.33 and 34 the flag brs.N.62°03'E. Vertical angle from temp.  $\frac{1}{4}$  sec.cor.of secs.27 and 34 to flag is + 32°.  
 Use as a Base the N. $\frac{1}{2}$  of line bet.secs.33 and 34 (N.0°2'W., 40.00 chs.).  
 Distance triangulated = 75.49 chs.N.89° 58'E.  
 75.49 Triangulation point. Continue line and measurement by chaining.  
 80.00 Intersect the cor.of secs. 26,27, 34 and 35. Thence, S.89° 58'W., on true line, bet. secs.27 and 34. Over gently rolling land, thru. dense timber and undergrowth.  
 4.51 Descend 20 ft., over S.slope, to Top of cliffs, bearing N. and S. facing W. and forming E. or left rim of Twin Springs Canyon. Enter mountainous land. Discontinue chaining. Measurement to foot of cliffs by triangulation, hereinbefore described.  
 15.94 Descend 1018 ft. to Foot of cliffs, bearing N. and S. Continue line and measurement by chaining.  
 40.00 Descend 446 ft., over steep SW.slope, to Set an iron post, 3 ft.long, 1 in.in diam., 24 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,  

$\frac{1}{4}$  S 27  
 S 34  
 1922

 from which,  
 A cedar, 6 ins.in diam., brs.S.39°E., 127 lks. dist., marked  $\frac{1}{4}$ S 34 BT.  
 A cedar, 4 ins.in diam., brs.N.41 $\frac{1}{2}$ °W., 14 lks. dist., marked BT.  
 Descend 137 ft., over SW.slope.  
 44.40 Bottom of gulch, 10 lks.wide, course SW.  
 Ascend 106 ft., over SE.slope.  
 51.60 Top of red sandstone knoll, brs.NE and SW.  
 Descend 172 ft., over W.slope.  
 58.20 Bottom of gulch, 10 lks.wide, course SW.  
 Ascend 117 ft., over SE.slope.  
 63.80 SW.end of knoll, bearing NE. and SW.  
 Descend 273 ft., over SW.slope, to  
 80.00 The cor.of secs. 27,28, 33 and 34. Land, E.4 $\frac{1}{2}$  chs.gently rolling; remainder, mountainous. Soil, rocky, 4th rate. Timber, cedar and pinyon. Undergrowth, scrub oak and manzanita.



N.0°2'W., bet. secs. 27 and 28.  
 Over mountainous land, thru.scattering timber and dense undergrowth.  
 Ascend 25 ft., over SW.slope.  
 5.40 Point of spur, slopes SW.  
 Descend 54 ft., over NW.slope, to  
 18.65 Left edge of bottom of Twin Springs Canyon, brs.NE. and SW. Thence in canyon bottom, course S.20°W.  
 Ascend gradually to  
 40.00 Set an iron post, 3 ft.long, 1 in.in diam., 18 ins.in the ground to bed rock, supported in a mound of stone, for

## 38 Survey of Subdivision lines of Township 31 North, Range 12 West.

Chains.

 $\frac{1}{4}$  sec.cor., marked on brass cap,

S28 | S27

1922

from which,

A pinyon, 13 ins. in diam., brs. N. 56° E., 320 lks.  
dist., marked  $\frac{1}{4}$  S 27 BT.A pinyon, 12 ins. in diam., brs. S. 12° W., 97 lks.  
dist., marked  $\frac{1}{4}$  S 28 BT.Continue in bottom of Twin Springs Canyon, course S. 20° W.  
Ascend gradually to53.50 Right edge of bottom of Twin Springs Canyon, brs. N. 20° E. and  
S. 20° W. Leave canyon bottom.

Ascend 240 ft., over SE. slope, to sec. cor.

54.00 Trail, brs. S. 20° W. and N. 20° E.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 8 ins. in  
the ground to bed rock, supported in a mound of stone,  
for cor. of secs. 21, 22, 27 and 28, marked on brass cap.

T31N | R12W

S21 | S22

S28 | S27

1922

from which,

A pinyon, 12 ins. in diam., brs. N. 82° E., 160 lks.  
dist., marked T31N R12W S22 BT.A pinyon, 10 ins. in diam., brs. S. 35° E., 63 lks.  
dist., marked T31N R12W S27 BT.A pinyon, 12 ins. in diam., brs. S. 42° W., 31 lks.  
dist., marked T31N R12W S28 BT.A cedar, 12 ins. in diam., brs. N. 52° W., 45 lks.  
dist., marked T31N R12W S21 BT.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, pinyon and cedar.

Undergrowth, sagebrush, black brush and scrub oak.

N. 89° 58' E., on random line, bet. secs. 22 and 27.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.80.10 Intersect N. and S. line, 5 lks. N. of the cor. of secs. 22, 23,  
26 and 27.

Thence,

West, on true line, bet. secs. 22 and 27.

Over mountainous land, in canyon, thru. dense timber and  
undergrowth.7.64 Descend 140 ft., over SW. slope, to  
Bottom of canyon, 40 lks. wide, course NW.

Ascend 51 ft., over NE. slope.

11.16 Descend 62 ft., over N. slope.

15.56 Ascend 41 ft., over NE. slope.

20.10 Descend 40 ft., over N. slope, to

31.90 Spur, slopes NW.

Descend 113 ft., over W. slope, to

40.05 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 22

S 27

1922

from which,

A cedar, 4 ins. in diam., brs. S. 22° W., 30 lks.  
dist., marked BT.A cedar, 7 ins. in diam., brs. N. 11° W., 32 lks.  
dist., marked  $\frac{1}{4}$  S 22 BT.41.00 Descend 15 ft., over W. slope, to  
Wash, 20 lks. wide, course NW.

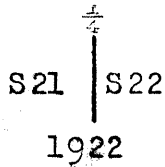


Survey of Subdivision lines of Township 31 North Range 12 West. 39

Chains.

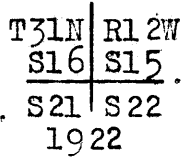
68.37 Descend 270 ft., over N. and NW. slopes, to East, or right edge of bottom of Twin Springs Canyon, brs. NE. and SW., joined at this point by the bottom of side canyon from NE. Thence across canyon bottom, course S. 5°W.  
 72.53 West, or left edge of bottom of Twin Springs Canyon, brs. N. 5°E. and S. 5°W. Leave canyon bottom. Ascend 147 ft., over SE. slope to sec. cor.  
 74.00 Trail, brs. N. and S.  
 80.10 The cor. of secs. 21, 22, 27 and 28. Land, mountainous. Soil, rocky, 4th rate. Timber, cedar and pinyon. Undergrowth, scrub oak, sagebrush and black brush.

N. 0° 21' W., bet. secs. 21 and 22. Over mountainous land, thru dense timber and undergrowth. Ascend 86 ft., over SE. slope.  
 5.90 Point of spur, slopes SE.  
 8.30 Descend 47 ft., over NE. slope. Bottom of gulch, 10 lks. wide, course SE.  
 17.00 Ascend 187 ft., over S. slope. Spur, slopes E.  
 19.06 Descend 78 ft., over N. slope. Bottom of gulch, 5 lks. wide, course E., heads 10 chs. W.  
 24.55 Ascend 25 ft., over SE. slope, to Point of low spur, slopes E.  
 36.60 Descend 20 ft., over NE. slope. Ascend 20 ft., over E. slope, to  
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for sec. cor., marked on brass cap,



from which,  
 A cedar, 10 ins. in diam., brs. N. 48° E., 138 lks. dist., marked  $\frac{1}{4}$ S 22 BT.  
 A cedar, 4 ins. in diam., brs. S. 32 $\frac{1}{2}$ ° W., 45 lks. dist., marked BT.

57.45 Descend 81 ft., over NE. slope, to Trail, brs. NW. and SE.  
 60.35 Right edge of bottom of Twin Springs Canyon, brs. NW. and SE. Thence across canyon bottom, course SE.  
 61.90 Left edge of canyon bottom, brs. NW. and SE. Leave canyon bottom. Ascend 85 ft., over SW. slope, to  
 71.60 Bottom of side canyon, 30 lks. wide, course SW. Ascend 175 ft., over SE. slope, to  
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 14 ins. in the ground to bed rock, supported in a mound of stone, for cor. of secs. 15, 16, 21 and 22, marked on brass cap,

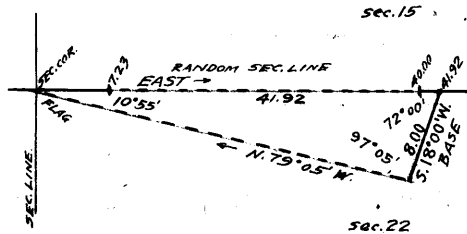


from which,  
 A cedar, 3 ins. in diam., brs. N. 45° E., 36 lks. dist., marked BT.  
 A cedar, 4 ins. in diam., brs. S. 57° E., 48 lks. dist., marked BT.  
 A cedar, 12 ins. in diam., brs. S. 65 $\frac{1}{2}$ ° W., 118 lks. dist., marked T31N R12W S21 BT.  
 A cedar, 6 ins. in diam., brs. N. 35° W., 60 lks. dist., marked T31N R12W S16 BT.

40 Survey of Subdivision lines of Township 31 North, Range 12 West.  
Chains.

Land, mountainous.  
Soil, rocky, 4th rate.  
Timber, cedar and pinyon.  
Undergrowth, scrub oak, buck brush and manzanita.

- 7.23 East, on random line, bet. secs. 15 and 22.  
Bottom of side canyon, course SW. Precipitous ascent beyond this point prevents continuation of chaining; therefore, triangulate as described, as follows:



Set flag on the cor. of secs. 15, 16, 21 and 22.

From a point ahead on random sec. line, measure a Base S.  $18^{\circ}00'W$ , 8.00 chs.

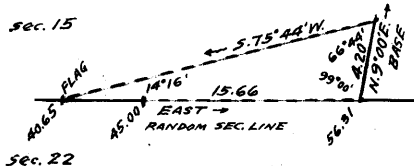
From SW. end of Base, the flag brs. N.  $79^{\circ}05'W$ .

From NE. end of Base, the vertical angle to 7.23 ch. station on random sec. line is  $-31^{\circ}$ ;

Distance triangulated = 41.92 chs. East.  
Dist. by return measurement = 1.92 chs. West.

40.00 chs. East.

- 40.00 Set temp.  $\frac{1}{2}$  sec. cor.  
Continue line and measurement by chaining.  
40.65 Set flag for triangulation hereinafter described. Continue chaining.  
41.92 Triangulation point of the triangulation hereinbefore described.  
Continue chaining.  
45.00 Rim of canyon, brs. N. and S. Discontinue chaining owing to precipitous slopes ahead, and triangulate as described as follows:



From a point ahead on sec. line, on E. rim of canyon, measure a Base N.  $9^{\circ}E$ , 4.20 chs.

From NE. end of Base, the flag at 40.65 ch. station brs. S.  $75^{\circ}44'W$ .

From SE. end of Base, the vertical angle to flag is  $0^{\circ}$ .

Distance on random sec. line = 40.65 chs. East.  
Distance triangulated = 15.66 chs. East.

Total distance, = 56.31 chs. East.

- 56.31 Triangulation point. Continue line and measurement by chaining.  
80.02 Intersect N. and S. line, 4 lks. 5. of the cor. of secs. 14, 15, 22 and 23.

Thence S.  $89^{\circ}58'W$ , on true line, bet. secs. 15 and 22. Over gently rolling land, thru dense timber and undergrowth.

- 23.71 Descend gradually, over W. slope, to East, or left rim of canyon, brs. NW and SE. Enter mountainous land in canyon.  
29.00 Descend about 300 ft., over precipitous W. slope. (Approx.) Bottom of canyon, course S.  
35.00 Ascend about 300 ft., over precipitous E. slope, to West, or right rim of canyon, brs. N. and S.  
Leave canyon; enter nearly level land on point of bench, bearing N. and S.

- 38.10 Triangulation point. Continue chaining.  
39.37 Triangulation point at E. or left rim of another canyon, brs. N. and S. Continue chaining. Enter mountainous land.

- 40.01 Descend 30 ft., over steep W. slope, to Set an iron post, 3 ft. long, 1 in. in diam. on surface rock, supported in a mound of stone, for  $\frac{1}{2}$  sec. cor., marked on brass cap.

Survey of Subdivision lines of Township 31 North, Range 12 West: 41

Chains.

$\frac{1}{4}$  S 15  
 S 22  
 1922

from which,

A pinyon, 8 ins. in diam., brs. N.48°E., 42 lks.  
 dist., marked  $\frac{1}{4}$  S 15 BT.

A pinyon, 8 ins. in diam., brs. S.70°E., 40 lks.  
 dist., marked  $\frac{1}{4}$  S 22 BT.

Discontinue chaining. Measurement by triangulation to bottom of canyon.

72.79 Descend 1345 ft., over precipitous W. slope, to Bottom of canyon, 30 lks. wide, course SW. Continue line and measurement by chaining.

80.02 Ascend 65 ft., over SE. slope, to

The cor. of secs. 15, 16, 21 and 22.

Land, gently rolling, nearly level and mountainous.

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

Timber, cedar and pinyon.

Undergrowth, sagebrush and scrub oak.

N.0°2'W., bet. secs. 15 and 16.

Over mountainous land, thru dense timber and undergrowth.

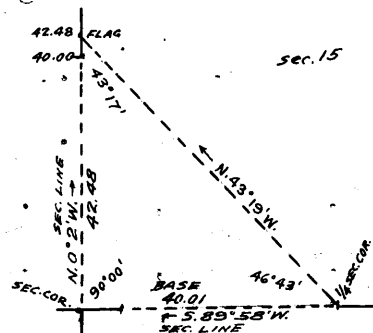
The south half of this sec. line passes over precipitous broken E. slope on the W. side of a canyon, and chaining is impracticable; therefore, triangulate as described as follows:

Set flag ahead on sec. line at a point on E. side of canyon, the vertical angle to which is + 24 $\frac{1}{2}$ °.

From the  $\frac{1}{4}$  sec. cor. of secs. 15 and 22, the flag brs. N.43°19'W.

Use as a Base, the W.  $\frac{1}{2}$  of line bet. secs. 15 and 22. (S.89°58' W., 40.01 chs.)

Distance triangulated = 42.48 chs. N.0°2'W.  
 Dist. by return measurement = 2.48 chs. S.0°2'E.  
 40.00 chs. N.0°2'W.



32.00 Ascent from sec. cor. to flag = 1280 ft.

(Approx.) Bottom of canyon, course S.20°E. Thence along E. side of canyon.

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

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

from which,

A pinyon, 12 ins. in diam., brs. N.21°E., 42 lks.  
 dist., marked  $\frac{1}{4}$  S 15 BT.

A pinyon, 6 ins. in diam., brs. N.17°W., 28 lks.  
 dist., marked  $\frac{1}{4}$  S 16 BT.

Continue line and measurement by chaining.

42.48 Ascend 118 ft., over steep SW. slope, to

Triangulation point on E. side of canyon, near head of same canyon. Continue chaining.

44.00 Ascend 10 ft., over W. slope, to

Enter bottom of gulch, course S.30°W. from N.

45.00 Ascend slightly in gulch, to

Leave bottom of gulch, course S. from N.5°W.

53.40 Ascend 56 ft., over W. slope, to

Bottom of same gulch, course SW.

55.00 Ascend 18 ft., over SE. slope, to

Rim of gulch, brs. NE' and SW. Enter rolling land.

70.00 Ascend 80 ft., over SE. slope.

Descend 46 ft., over NW. slope, to

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 12 ins. in the ground to bed rock, supported in a mound of stone,

## BOOK 3642

72 Survey of Subdivision lines of Township 31 North, Range 12 West.

Chains.

for cor. of secs. 9, 10, 15 and 16, marked on brass cap,

T31N	R12W
S 9	S10
S16	S15
1922	

from which,

- A cedar, 10 ins. in diam., brs. N.  $65\frac{1}{2}^{\circ}$  E., 49 lks.  
dist., marked T31N R12W S10 BT.
- A cedar, 8 ins. in diam., brs. S.  $25^{\circ}$  E., 106 lks.  
dist., marked T31N R12W S15 BT.
- A cedar, 12 ins. in diam., brs. S.  $23^{\circ}$  W., 44 lks.  
dist., marked T31N R12W S16 BT.
- A cedar, 24 ins. in diam., brs. N.  $47^{\circ}$  W., 63 lks.  
dist., marked T31N R12W S9 BT.

Land, mountainous and rolling.

Soil, rocky, 4th rate.

Timber, cedar and pinyon.

Undergrowth, sagebrush, scrub oak and cactus.

- 40.00 N.  $89^{\circ}58'$  E., on random line, bet. secs. 10 and 15.  
Set temp.  $\frac{1}{4}$  sec. cor.
- 80.06 Intersect N. and S. line, 23 lks. N. of the cor. of secs. 10, 11  
14 and 15.  
Thence,  
N.  $89^{\circ}52'$  W., on true line, bet. secs. 10 and 15.  
Over gently rolling land, thru. dense timber and under-  
growth.
- 7.30 Descend 30 ft., over SW. slope, to  
Wash, 20 lks. wide, course SW.
- 37.20 Descend gradually over SW. slope to  $\frac{1}{4}$  sec. cor.  
Wash, 10 lks. wide, course SW.
- 40.03 Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the  
ground to bed rock, supported in a mound of stone, for  
 $\frac{1}{4}$  sec. cor., marked on brass cap,

$\frac{1}{4}$ S 10
S 15
1922

from which,

- A cedar, 10 ins. in diam., brs. S.  $39^{\circ}$  W., 84 lks.  
dist., marked  $\frac{1}{4}$  S 15 BT.
- A cedar, 10 ins. in diam., brs. N.  $24^{\circ}$  W., 74 lks.  
dist., marked  $\frac{1}{4}$  S 10 BT.
- Continue over gently rolling land, thru. dense timber and  
undergrowth.
- 53.10 Descend 32 ft., over SW. slope, to  
Wash, 10 lks. wide, course S.  $25^{\circ}$  W.
- 70.00 Ascend gradually over SE. slope.  
Enter rolling land.
- 80.06 Descend 30 ft., over NW. slope, to  
The cor. of secs. 9, 10, 15 and 16.  
Land, gently rolling and rolling.  
Soil, sandy and rocky, 3rd rate.  
Timber, cedar and pinyon.  
Undergrowth, scrub oak, sagebrush and cactus.

- N.  $0^{\circ}02'$  W., bet. secs. 9 and 10.  
Over rolling land, thru. dense timber and undergrowth.  
Descend 30 ft., over NW. slope.
- 3.34 Rocky wash, 10 lks. wide, course W. Enter mountainous land.  
Ascend 77 ft., over S. slope.
- 13.00 Point of spur, slopes W.  
Descend 65 ft., over N. slope.
- 16.80 Trail, brs. E. and W.
- 22.80 Bottom of gulch, 10 lks. wide, course W.  
Ascend 53 ft., over S. slope.
- 25.00 Spur, slopes S.  $70^{\circ}$  W.

Survey of Subdivision lines of Township 31 North, Range 12 West. 43

Chains.

- 34.75 Descend 60 ft., over NW.slope.  
Bottom of gulch, 20 lks.wide, course SW.
- 40.00 Ascend 57 ft., over SE.slope, to  
Set an iron post, 3 ft.long, 1 in. indiam., 26 ins.in the ground, for  $\frac{1}{4}$  sec.cor., marked on brass cap,

$$\begin{array}{c} \frac{1}{4} \\ \text{S } 9 \text{ S } 10 \\ 1922 \end{array}$$

- 43.00 No bearing trees available.  
Raise a mound of stone, 4 ft.base, 2 ft.high, W.of cor.  
Ascend 41 ft., over SE.slope, to  
Enter rolling land.
- 66.60 Ascend gradually over SW.slope, to  
Shallow wash, course SW.
- 80.00 Ascend 112 ft., over SW. slope, to  
Set an iron post, 3 ft.long, 2 ins.in diam., 26 ins. in the ground, for cor.of secs.3,4,9 and 10, marked on brass cap,

$$\begin{array}{c} \text{T31N} \text{ R12W} \\ \text{S } 4 \text{ S } 3 \\ \text{S } 9 \text{ S } 10 \\ 1922 \end{array}$$

from which,

- A cedar, 16 ins.in diam., brs.N.54°E., 125 lks.  
dist., marked T31N R12W S3 BT;
- A cedar, 18 ins.in diam., brs.S.32°E., 152 lks.  
dist., marked T31N R12W S10 BT.
- A cedar, 14 ins.in diam., brs.S.45°W., 66 lks.  
dist., marked T31N R12W S9 BT.
- A cedar, 40 ins.in diam., brs.N.77°W., 61 lks.  
dist., marked T31N R12W S 4 BT.

Land, rolling and mountainous.

Soil, rocky and sandy, 3rd rate.

Timber, cedar and pinyon.

Undergrowth, sagebrush, scrub oak and cactus.

- 40.00 S.89°52'E., on a random line, bet. secs.3 and 10.  
Set temp. sec.cor.
- 80.04 Intersect N.and S.line, 7 lks.S.of the cor.of secs.2,3,  
10 and 11.  
Thence,  
N.89°55'W., on a true line, bet. secs.3 and 10.  
Over rolling land, thru.dense timber and scattering under-  
growth.
- 40.02 Descend 335 ft., over SW.slope, to  
Set an iron post, 3 ft.long, 1 in. in diam., 12 ins. in the ground to bed rock, supported in a mound of stone, for  $\frac{1}{4}$  sec.cor., marked on brass cap,

$$\begin{array}{c} \frac{1}{4} \text{ S. } 3 \\ \text{S } 10 \\ 1922 \end{array}$$

from which,

- A cedar, 18 ins. in diam., brs.S.63°E., 46 lks.  
dist., marked  $\frac{1}{4}$ S 10 BT.
- A cedar, 18 ins.in diam., brs.N.67°W., 6 lks.  
dist., marked  $\frac{1}{4}$ S 3 BT.

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

- 80.04 Descend 200 ft., over SW. slope, to  
The cor.of secs. 3,4,9 and 10.  
Land, rolling.  
Soil, sandy and rocky, 4th rate.  
Timber, cedar and pinyon.  
Undergrowth, scrub oak, sagebrush and cactus.

## BOOK 3642

## 44. Survey of Subdivision lines of Township 31 North, Range 12 West.

Chains.

N.0°5'E., on random line, bet. secs.3 and 4.  
 40.00 Set temp.  $\frac{1}{4}$  sec.cor.  
 80.06 Intersect the N. bdy. of the Tp., 7 lks.E. of the cor. of  
 secs. 3,4, 33 and 34, described in Book "A" of this  
 group.

Thence,  
 S.0°2'W., on true line, bet. secs.3 and 4.  
 Over rolling land, thru. dense timber and scattering under-  
 growth.  
 Ascend 105 ft., over N. and NE. slopes.  
 30.00 Top of ascent. Summit of hill brs.W. about 4 chs. dist.  
 Descend 50 ft., over SE. slope, to  
 40.06 Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the  
 ground to bed rock; supported in a mound of stone, for  
 $\frac{1}{4}$  sec.cor., marked on brass cap,

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

1922

from which,

A cedar, 8 ins. in diam., brs. N.50°E., 65 lks.  
 dist., marked  $\frac{1}{4}$  S 3 BT.

A cedar, 8 ins. in diam., brs. S.84 $\frac{1}{2}$ °W., 58 lks.  
 dist., marked  $\frac{1}{4}$  S 4 BT.

Descend 112 ft., over SE. slope.  
 53.40 Rocky wash, 20 lks. wide, course SW.  
 Descend gradually over SW. slope, to

80.06 The cor. of secs. 3, 4, 9 and 10.

Land, rolling.  
 Soil, rocky and sandy, 3rd and 4th rate.  
 Timber, cedar and pinyon.  
 Undergrowth, sagebrush, black brush and cactus.

-----  
 From the cor. of secs. 4, 5, 32 and 33, on S. bdy. of the Tp.,  
 hereinbefore described,

N.0°3'W., bet. secs. 32 and 33.

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

Ascend 14 ft., over S. slope.

4.10 Point of low spur, slopes SE.

Descend 41 ft., over NE. slope.

6.36 Bottom of gulch, 10 lks. wide, course SE.

Ascend 124 ft., over SW. slope.

18.36 Saddle in ridge, brs. NW. and SE.

Descend 123 ft., over NW. slope.

22.35 Bottom of gulch, 10 lks. wide, course NE. near head.

Ascend 71 ft., over SE. slope.

26.00 Spur, slopes NE. Enter dense timber.

Descend 100 ft., over N. slope.

35.15 Ascend 17 ft., over SW. slope.

38.15 Descend 37 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,

$\frac{1}{4}$   
 S 32 | S 33

1922

from which,

A cedar, 8 ins. in diam., brs. S.32°E., 12 lks.  
 dist., marked  $\frac{1}{4}$  S 33 BT.

A cedar, 10 ins. in diam., brs. N.10°W., 5 lks.  
 dist., marked  $\frac{1}{4}$  S 32 BT.

Descend slightly over NW. slope.

40.25 Wash, 20 lks. wide, course NE.

Descend 37 ft., over NE. slope, to

45.90 Wash, 100 lks. wide, course E., in bottom of canyon.

Survey of Subdivision lines of Township 31 North, Range 12 West, 45

Chains.

Beyond this point, the sec. line passes over a series of limestone and red sandstone cliffs, facing S. and SE., over which chaining is impracticable. To avoid these cliffs, run a traverse line in sec. 33, as described as follows:

From the  $\frac{1}{4}$  sec. cor. of secs. 32 and 33, chain measurement N.  $5^{\circ} 37' E.$ , 39.59 chs. to traverse point in sec. 33, which is 872 ft. above 45.90 ch. station on sec. line in bottom of canyon.

At a point 38.00 chs. N.  $5^{\circ} 37' E.$  from  $\frac{1}{4}$  sec. cor., a sharp rocky pinnacle about 500 ft. high brs. W. 1.00 ch. dist.

From traverse point, chain West, 3.91 chs., ascending 170 ft. over NE. slope to point on sec. line, at

79.40 Thence, N.  $0^{\circ} 3' W.$ , on sec. line, bet. secs. 32 and 33, continuing measurement from cor. of secs. 4, 5, 32 and 33 on S. bdy. of the Tp.

80.00 Descend 16 ft., over N. slope, to Set a limestone rock, 16x12x4 ins., 11 ins. in the ground, marked with 4 notches on E. face, and 1 notch on S. face, for cor. of secs. 28, 29, 32 and 33, from which,

A pinyon, 4 ins. in diam., brs. N.  $40^{\circ} E.$ , 35 lks. dist., marked BT.

A rock, 14x8x4 ft., in place, brs. S.  $8^{\circ} E.$ , 60 lks. dist., marked cross (x) on top and "BOS33" below cross.

A pinyon, 4 ins. in diam., brs. N.  $70^{\circ} W.$ , 42 lks. dist., marked BT.

No other bearing tree or bearing object available.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, pinyon and cedar.

Undergrowth, scrub oak, manzanita and black brush.

N.  $89^{\circ} 58' E.$ , on random line, bet. secs. 28 and 33.

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

80.18 Intersect N. and S. line, 5 lks. S. of the cor. of secs. 27, 28, 33 and 34.

Thence,

S.  $89^{\circ} 56' W.$ , on true line, bet. secs. 28 and 33.

Over mountainous land in Twin Springs Canyon, thru dense timber and undergrowth.

4.25 Descend 88 ft., over steep W. slope, to East, or left edge of bottom of Twin Springs Canyon, brs. N. and S. Thence, across bottom of canyon, course S.

10.00 West, or right edge of bottom of Twin Springs Canyon, brs. N. and S. Leave canyon bottom.

14.80 Ascend 95 ft., over steep E. slope, to Top of steep ascent, brs. NW. and SE.

19.60 Ascend 26 ft., over gradual NE. slope, to Trail, brs. N. and S.

27.00 Ascend 117 ft., over steep SE. slope, to Spur, slopes N.  $70^{\circ} E.$

35.80 Ascend 57 ft., over N. slope, to Shallow wash, 10 lks. wide, course NE.

40.09 Ascend 30 ft., over SE. slope, to

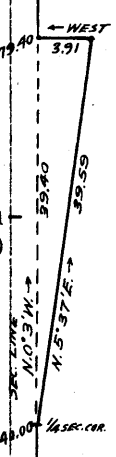
Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the ground to bed rock, supported in a mound of stone, for  $\frac{1}{4}$  sec. cor., marked on brass cap,

$\frac{1}{4}$  S 28  
S 33  
1922

from which,

A cedar, 8 ins. in diam., brs. S.  $79^{\circ} E.$ , 48 lks. dist., marked  $\frac{1}{4}$  S 33 BT.

A pinyon, 4 ins. in diam., brs. N.  $78^{\circ} W.$ , 24 lks. dist., marked BT.

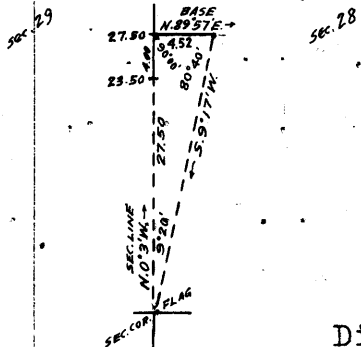


16. Survey of Subdivision lines of Township 31 North Range 12 West.

Chains.

53.60 Ascend 415 ft., over SE slope.  
 Spur, slopes NE.  
 56.50 Descend 35 ft., over NW slope.  
 Bottom of gulch, 5 lks. wide, course NE., near head.  
 80.18 Ascend 782 ft., over precipitous broken NE slope, to  
 The cor. of secs. 28, 29, 32 and 33.  
 Land, mountainous.  
 Soil, rocky, 4th rate.  
 Timber, cedar.  
 Undergrowth; scrub oak, sagebrush and black brush.

N.0°3'W.; bet. secs. 28 and 29.  
 Over mountainous land, in canyon, thru dense timber and undergrowth.  
 Precipitous descent over N. slope from sec. cor. renders chaining impracticable; therefore, triangulate as described as follows:

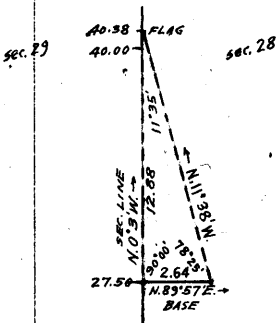


Set flag on cor. of secs. 28; 29, 32 and 33.  
 From a point ahead on sec. line, measure a Base N.89°57'E., 4.52 chs.  
 From E. end of Base, the flag brs. S.9°17'W.  
 From W. end of Base, the vertical angle to flag is + 22°.

Distance triangulated = 27.50 chs. N.0°3'W.  
 Dist. by return measurement = 4.00 chs. S.0°3'E.  
 23.50 chs. N.0°3'W.

23.50 Center of wash, 200 lks. wide, 6 ft. deep, course E. in bottom of canyon, 770 ft. below cor. of secs. 28, 29, 32 and 33. Continue line and measurement by chaining.

27.50 Ascend 38 ft., over S. slope, to  
 Triangulation point. Precipitous ascent over S. slope beyond this point renders chaining impracticable; therefore, triangulate as described as follows:



Measure a Base N.89°57'E., 2.64 chs.  
 Set flag ahead on sec. line.  
 From E. end of Base, the flag brs. N.11°38'W.  
 Vertical angle from W. end of base to flag is + 23°.

Distance on sec. line = 27.50 chs. N.0°3'W.  
 Dist. triangulated = 12.88 chs. N.0°3'W.  
 Total distance, = 40.38 chs. N.0°3'W.  
 Dist. by return measurement, = 0.38 chs. S.0°3'E.  
 40.00 chs.

40.00 400 ft. above point on sec. line in bottom of canyon, Set an iron post, 3 ft. long, 1 in. in diam., 8 ins. in the ground to bed rock, supported in a mound of stone, for 1/4 sec. cor., marked on brass cap.

S29 | S28

1922

from which,  
 A cedar, 8 ins. in diam., brs. N.51°E., 37 lks. dist., marked 1/4 S 28 BT.  
 A cedar, 8 ins. in diam., brs. N.74 1/2°W., 43 lks. dist., marked 1/4 S 29 BT.  
 A small spring brs. E. 4.00 chs. dist.

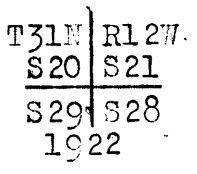
Ascend 139 ft., over broken S. slope.  
 46.00 Spur, slopes E. A cliff, 400 ft. high, facing NE. and SE.



Survey of Subdivision lines of Township 31 North, Range 12 West. 47

Chains.

brs. W. 2.00 chs. dist.  
 Descend 148 ft., over NE. slope.  
 54.35 Wash, 30 lks. wide, in gulch, course NE.  
 Ascend 35 ft., over SE. slope, to  
 56.70 Descend 70 ft., over steep E. slope, to  
 71.50 Spur, slopes NE.  
 Descend 160 ft., over steep NE. slope, to  
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 8 ins. in the  
 ground to bedrock, deposit a stone, marked with a cross  
 (x) at base of post, and raise a mound of stone around  
 post, for cor. of secs. 20, 21, 28 and 29, marked on brass  
 cap,

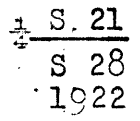


from which,  
 A pinyon, 4 ins. in diam., brs. N. 15° E., 44 lks.  
 dist., marked BT.  
 A pinyon, 8 ins. in diam., brs. S. 51° E., 35 lks.  
 dist., marked T31N R12W S28 BT.  
 A pinyon, 4 ins. in diam., brs. N. 12° W., 60 lks.  
 dist., marked BT.

No other other bearing tree available..  
 Land, mountainous.  
 Soil, rocky, 4th rate.  
 Timber, cedar.  
 Undergrowth, scrub oak, sagebrush and black brush.

-----  
 N. 89° 56' E., on random line, bet. secs. 21 and 28.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 80.12 Intersect N. and S. line, 23 lks. N. of the cor. of secs. 21, 22  
 27 and 28.

Thence,  
 N. 89° 54' W., on true line, bet. secs. 21 and 28.  
 Over mountainous land, in canyon, thru dense timber and  
 undergrowth.  
 Ascend 230 ft., over SE. slope, to  
 9.00 Point of spur, slopes SE.  
 Descend 17 ft., over S. slope.  
 11.50 Ascend 57 ft., over SE. slope.  
 16.30 Spur, slopes S.  
 Descend 60 ft., over SW. slope, to  
 19.70 Head of gulch, course SW.  
 Descend 205 ft., over steep broken SW. slope, to  
 40.06 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,



from which,  
 A cedar, 18 ins. in diam., brs. S. 64° W., 73 lks.  
 dist., marked  $\frac{1}{4}$  S 28 BT.  
 A cedar, 4 ins. in diam., brs. N. 21 $\frac{1}{2}$ ° W., 78 lks.  
 dist., marked BT.

Descend 96 ft., over SW. slope, to  
 53.00 East or left edge of bottom of canyon, brs. NW. and SE.  
 Thence across canyon bottom, course SE.  
 53.20 Trail, brs. SE. and NW.  
 57.00 West, or right edge of bottom of canyon, brs. NW. and SE.  
 Leave canyon bottom.  
 Ascend 185 ft., over E. slope, to  
 76.00 Spur, slopes N. 70° E.  
 Ascend 65 ft., over N. and NE. slopes, to  
 80.12 The cor. of secs. 20, 21, 28 and 29.  
 Land, mountainous.  
 Soil, rocky sandstone and limestone, 3rd rate.

## 18 Survey of Subdivision lines of Township 31 North, Range 12 West.

Chains.

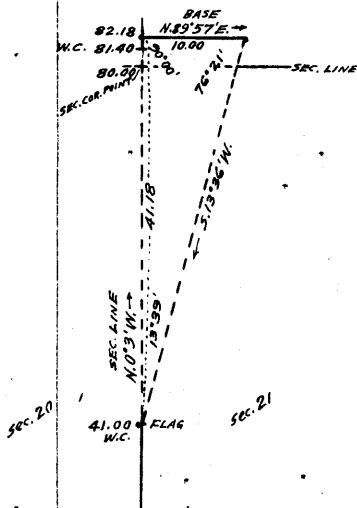
Timber, cedar and pinyon.  
Undergrowth, scrub oak, black brush and manzanita.

- N.0°3'W., bet.secs. 20 and 21.  
Over mountainous land, thru.dense timber and undergrowth.  
Descend 280 ft., over steep NE.slope.  
23.00 Center of wash, 300 lks.wide, course NE.  
Ascend 70 ft., over SE.slope.  
28.00 Point of spur, slopes E.  
Descend 86 ft., over NE.slope, to  
33.20 Trail, brs.E.and W.  
36.50 West edge of bottom of canyon, brs.NW. and SE. Thence  
across canyon bottom, course SE.  
40.00 Point for  $\frac{1}{4}$  sec.cor. falls in bottom of canyon, where it  
would be unsafe to set monument; therefore, at  
41.00 East edge of bottom of canyon, brs.NW. and SE. Set an  
iron post, 3 ft.long, 1 in.in diam., 26 ins.in the  
ground for witness cor. to  $\frac{1}{4}$  sec.cor., marked on  
brass cap,

$\frac{1}{4}$   
 S20 | S21  
 W | C  
 1922

No bearing trees available. Raise a mound of stone, 4 ft.  
base, 2 ft.high, W.of cor.

Beyond this point, the sec.line passes over precipitous  
broken SW. slope, and chaining is impracticable; there-  
fore, triangulate as described as follows:



Set flag at 41.00 ch.station on  
sec.line.

From a point ahead on sec.line,  
measure a Base, N.89°57'E., 10.00  
chs.

From E.end of Base, the flag brs.  
S.13°36'W.

The vertical angle from W.end of  
Base to flag is - 25°.

Dist: on sec. line; = 41.00 chs. N.0°3'W.

Dist. triangulated = 41.18 chs. N.0°3'W.

Total distance = 82.18 chs. N.0°3'W.

Dist. by return  
measurement = 0.78 chs. S.0°3'E.

81.40 chs. N.0°3'W.

- 80.00 True point for cor. of secs. 16, 17, 20 and 21 falls on face  
of cliff 400 ft. high, bearing E. and W. facing S., and  
is inaccessible; therefore, establish witness cor. at  
top of cliff 1.40 chs. N.0°3'W., as hereinafter de-  
scribed.

Land, mountainous.

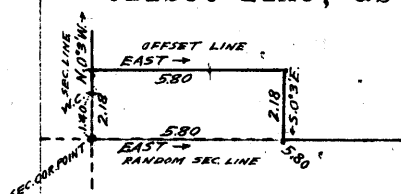
Soil, rocky, 4th rate.

Timber, cedar and pinyon.

Undergrowth, scrub oak, black brush and manzanita.

From true point, for cor. of secs. 16, 17, 20 and 21,  
East, on random line, bet. secs. 16 and 21.

The cor. point being inaccessible, obtain measurement to  
a point on random sec. line East therefrom by means of  
offset line, as described as follows:



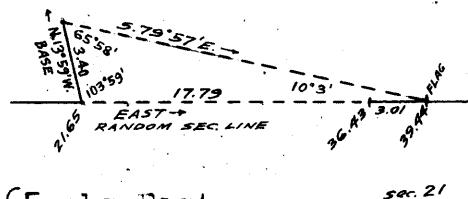
From point for cor. of secs. 16, 17,  
20 and 21;

N.0°3'W., 2.18 chs. by triangulation  
hereinbefore de-  
scribed, to offset  
point.

Survey of Subdivision lines of Township 31 North Range 12 West. 49

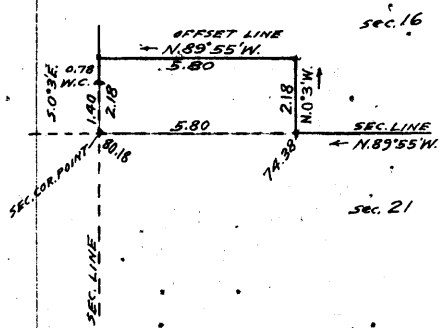
Chains.

- Thence,  
East, 5.80 chs. on offset line in sec.16,  
parallel to, and 2.18 chs.  
N. of the random sec. line  
to offset point.
- Thence,  
S.0°3'E. 2.18 chs. returning to point on ran-  
dom sec. line, at
- 5.80 Offset point. Thence, East, on random line bet. secs.16 and  
21, continuing measurement from sec. cor. point.
- 21.65 Top of cliff, bearing NW. and SE., facing NE. Precipitous  
descent beyond this point prevents continuation of  
chaining; therefore, triangulate as described as fol-  
lows:
- Measure a Base, N.13°59'W., 3.40  
chs.  
Set flag ahead on random  
sec. line. sec. 16
- From NW. end of Base, the flag  
brs. S.79°57'E.
- The vertical angle from SE.  
end of Base to flag is  
- 30°.
- Dist. on random sec. line = 21.65 chs. East.  
Dist. triangulated = 17.79 chs. East.  
Total distance = 39.44 chs. East.  
Dist. by return measure-  
ment, = 3.01 chs. West.  
36.43 chs. East.
- 36.43 Foot of precipitous descent.
- 39.44 Continue line and measurement by chaining.
- 40.00 Triangulation point. Continue chaining.
- 40.00 Set temp. 1/4 sec. cor.
- 80.18 Intersect N. and S. line, 12 lks. N. of the cor. of secs. 15,  
16, 21. and 22.
- Thence,  
N.89°55'W., on true line, bet. secs. 16 and 21.  
Over mountainous land, thru dense timber and scattering  
undergrowth.
- Ascend 17 ft., over SE. slope.
- 3.00 Spur, sloping S. near S. end of same.  
Descend 160 ft. over SW. slope.
- 19.10 Trail, brs. N.80°W. and S.80°E.
- 20.70 Wash, 50 lks. wide, course SE. in bottom of Twin Springs  
Canyon.
- Ascend 580 ft., over steep NE. slope, to
- 40.09 Set a limestone, 16x8x4 ins., 11 ins. in the ground, marked  
1/4 on N. face for 1/4 sec. cor., from which,  
A pinyon, 14 ins. in diam., brs. N.86°W., 52 lks.  
dist., marked 1/4 S 16 BT.  
A pinyon, 12 ins. in diam., brs. S.87°W., 74 lks.  
dist., marked 1/4 S 21 BT.
- Ascend 50 ft., over NE. slope.
- 40.74 Triangulation point. Continue chaining.
- 42.00 Wash, 20 lks. wide, in gulch, course NE. near head.  
Ascend 45 ft., over E. slope, to
- 43.75 Spur, slopes NE. Discontinue chaining. Measurement to  
rim of canyon by triangulation, hereinbefore described.
- Ascend about 580 ft., over precipitous NE. slope, to
- 58.53 Triangulation point at top of cliff, 350 ft. high, bearing  
NW. and SE., facing NE., and forming west or left rim  
of Twin Springs Canyon. Continue line and measurement  
by chaining. Enter gently rolling land.
- Ascend 40 ft., over SE. slope, to
- 74.38 Top of cliff, 400 ft. high, bearing NW. and SE., facing SW.  
Discontinue chaining on sec. line, and measure to sec. cor.  
point by offset, as described, as follows:



50 Survey of Subdivision lines of Township 31 North, Range 12 West.

Chains.



N.0°3'W., 2.18 chs. to offset point in sec. 16.  
 Thence,  
 N.89°55'W. 5.80 chs. to offset point on sec. line, bet. secs. 16 and 17.  
 Thence,  
 S.0°3'E., 2.18 chs. to sec. cor. point, chaining measurement for 0.78 chs. to W.C.  
 Thence, 1.40 chs. S.0°3'E. by triangulation here-inbefore described.

80.18 True point for cor. of secs. 16, 17, 20 and 21 on face of cliff 400 ft. high, bearing E. and W. facing S. Land, mountainous and gently rolling. Soil, rocky, 4th rate. Timber, cedar and pinyon. Undergrowth, scrub oak, manzanita and sagebrush.

From true point for cor. of secs. 16, 17, 20 and 21, N.0°3'W., bet. secs. 16 and 17. Over mountainous land, thru dense timber and undergrowth. Measurement by triangulation, hereinbefore described. Ascend over S. face of almost perpendicular cliff, 400 ft. high.

1.40 Top of cliff, bearing E and W. facing S., and forming left rim of a canyon, the bottom of which crosses the sec. line, bet. secs. 20 and 21 near the 1/4 sec. cor. of said secs., about 1275 ft. below this point. Set an iron post 3 ft. long, 2 ins. in diam., 6 ins. in the ground to bed rock, supported in a mound of stone, for witness cor. to cor. of secs. 16, 17, 20 and 21, marked on brass cap,

T31N	R12W
S17	S16
S20	S21
W C	
1922	

- from which,
- A pinyon, 18 ins. in diam., brs. N.20° E., 65 lks. dist., marked T31N R12W S16 WC BT.
- A cedar, 4 ins. in diam., brs. S.84 1/2° E., 32 lks. dist., marked WC BT.
- A cedar, 10 ins. in diam., brs. S.41° W., 30 lks. dist., marked T31N R12W S20 WC BT.
- A pinyon, 8 ins. in diam., brs. N.78° W., 86 lks. dist., marked T31N R12W S17 WC BT.

Enter gently rolling bench land, bearing NW and SE. bet. canyons.

34.85 Ascend gradually over SE. slope, to Top of cliff, about 400 ft. high, brs. N.70° W. and S.70° E. facing NE. Set an iron post, 3 ft. long, 1 in. in diam., on surface rock, supported in a mound of stone, for witness cor. to 1/4 sec. cor., marked on brass cap,

S17	S16
W C	
1922	

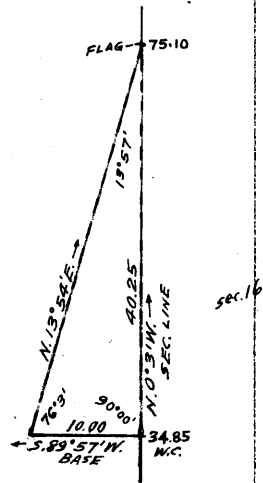
- from which,
- A cedar, 18 ins. in diam., brs. N.32° E., 23 lks. dist., marked S 16 WC BT.
- A cedar, 4 ins. in diam., brs. S.76° W., 27 lks. dist., marked WC BT.

Survey of Subdivision lines of Township 31 North, Range 12 West 31

Chains.

Beyond this point, the line cross Twin Springs Canyon, the precipitous slopes in which render chaining impracticable; therefore, triangulate as described as follows:

Measure a Base, S.89°57'W., 10.00 chs.  
 Set flag ahead on sec. line, at left rim of Twin Springs Canyon.  
 From W. end of Base, the flag brs. N.13°54'E.  
 Vertical angle from E. end of Base to flag is 0°, and to point on sec. line in bottom of canyon is -37°.



Dist. on sec. line, = 34.85 chs. N.0°3'W.  
 Dist. triangulated = 40.25 chs. N.0°3'W.  
 Total distance, = 75.10 chs. N.0°3'W.

- 40.00 True point for 1/4 sec. cor. falls on precipitous NE. slope, and is inaccessible.
- 57.00 (Approx.) Bottom of Twin Springs Canyon, course SE., about 1100 ft. below the W.C. to 1/4 sec. cor.
- 66.00 Ascend about 1100 ft., over precipitous SW. and S. slopes. (Approx.) Trail, brs. NW. and SE.
- 75.10 Triangulation point at left rim of Twin Springs Canyon, bearing E. and W.
- Continue line and measurement by chaining.  
 Enter gently rolling land.
- 80.00 Ascend gradually over SE. and E. slopes, to Set an iron post, 3 ft. long, 2 ins. in diam., 20 ins. in the ground to bed rock, supported in a mound of stone, for cor. of secs. 8, 9, 16 and 17, marked on brass cap,

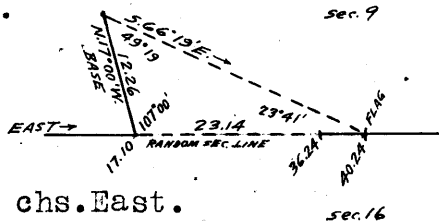
T31N	R12W
S 8	S 9
S17	S16
1922	

- from which,
- A cedar, 4 ins. in diam., brs. N.44°E., 47 lks. dist., marked BT.
- A cedar limb, 8 ins. in diam., brs. S.13°E., 52 lks. dist., marked T31N R12W S16 BT.
- A pinyon, 12 ins. in diam., brs. S.26°W., 26 lks. dist., marked T31N R12W S17 BT.
- A cedar, 4 ins. in diam., brs. N.11°W., 34 lks. dist., marked BT.

Land, mountainous and gently rolling.  
 Soil, rocky, 4th rate.  
 Timber, cedar and pinyon.  
 Undergrowth, scrub oak, sagebrush and cactus.

- 17.10 East, on random line, bet. secs. 9 and 16. Top of cliff, brs. N. and S. facing E. Beyond this point, the line crosses a canyon, the precipitous sides of which render chaining impracticable. Triangulate as described as follows:

Measure a Base N.17°W., 12.26 chs.  
 Set flag ahead on random sec. line, the vertical angle to which is 0°.  
 From NW. end of Base, the flag brs. S.66°19'E.



Dist. on random sec. line = 17.10 chs. East.  
 Distance triangulated = 23.14 chs. East.  
 Total distance = 40.24 chs. East.  
 Dist. by return measurement = 4.00 chs. West  
 36.24 chs. East.

## BOOK 3642

## 52 Survey of Subdivision lines of Township 31 North, Range 12 West.

Chains.	
36.24	East, or left rim of canyon, brs. N. and S. Continue line and measurement, by chaining.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
40.24	Triangulation point. Continue chaining.
49.60	Precipitous slopes beyond this point render chaining impracticable. About 5 chs. E. of this point, the W. rim of another canyon brs. N. $15^{\circ}$ E. and S. $15^{\circ}$ W. Discontinue chaining, and triangulate as described as follows:
	Measure a Base North, 8.30 chs. Set flag ahead on random sec. line at a point 7 lks. N. of the cor. of secs. 9, 10, 15 and 16, the vertical angle to which is $-1^{\circ}$ .
	From N. end of Base the flag brs. S. $74^{\circ}42'E$ .
	Dist. on random sec. line = 49.60 chs. East.
	Distance triangulated = <u>30.34</u> chs. East
	Total length of sec. line = 79.94 chs. East.
79.94	Intersect N. and S. line, 7 lks. N. of the cor. of secs. 9, 10, 15 and 16.
	Thence, N. $89^{\circ}57'W$ ., on a true line, bet. secs. 9 and 16.
	Over rolling land, thru dense timber and undergrowth. Descend 20 ft., over NW. slope, to
5.00	East or left rim of canyon, brs. N. and S. Discontinue chaining. Enter mountainous land. Measurement across canyon by triangulation, as hereinbefore described.
	Descend about 325 ft., over broken precipitous W. slope.
15.00	(Approx.) Bottom of canyon, 30 lks. wide, course S. $20^{\circ}$ W.
	Ascend about 320 ft., over precipitous E. slope, to
25.00	(Approx.) W. or right rim of canyon, brs. N. $15^{\circ}$ E. and S. $15^{\circ}$ W.
	Leave canyon. Asc. about 60 ft., over SE. slope, to
30.34	Triangulation point at point of spur, sloping S. from NE. Continue line and measurement by chaining.
	Descend 46 ft., over SW. slope.
34.40	Wash, course S. $30^{\circ}$ E.
	Ascend 25 ft., over E. slope.
39.70	Triangulation point on spur sloping S. Continue chaining.
	Descend slightly over W. slope, to
39.97	Set an iron post 3 ft. long, 1 in. in diam., 8 ins. in the ground to bed rock, supported in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,
	$\frac{1}{4} \frac{S 9}{S 16}$ 1922
	No bearing trees available. Raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.
	Continue chaining.
	Descend 15 ft., over W. slope, to
44.00	East or left rim of canyon, brs. N. and S. Discontinue chaining. Measurement across canyon by triangulation, hereinbefore described.
	Descend about 360 ft., over precipitous W. slope.
52.00	(Approx.) Bottom of canyon, 50 lks. wide, course S.
	Ascend about 360 ft., over precipitous E. slope.
62.84	Triangulation point at W. or right rim of canyon, brs. N. and S. Leave canyon. Enter rolling land.
	Continue line and measurement by chaining.
	Ascend 40 ft., over E. slope, to
79.94	The cor. of secs. 8, 9, 16 and 17. Land, mountainous and rolling. Soil, rocky and sandy, 3rd and 4th rate. Timber, cedar and pinyon, Undergrowth, scrub oak and sagebrush.

Survey of Subdivision lines of Township 31 North, Range 12 West. 53

Chains.

N.0°03'W., bet. secs.8 and 9.  
 Over rolling land, thru.dense timber and undergrowth.  
 Descend 55 ft., over NE.slope.  
 8.28 Wash,10 lks.wide,course NE.  
 Ascend 40 ft.,over SE.slope.  
 15.00 Descend 30 ft.,over NE.slope.  
 20.00 Wash,200 lks.wide, course N.80°E.  
 Ascend 64 ft.,over SE.slope, to  
 40.00 Set an iron post, 3 ft.long, 1 in. in diam.,26 ins.in the  
 ground,for  $\frac{1}{4}$  sec.cor., marked on brass cap,

$\frac{1}{4}$   
 S 8 | S 9  
 .1922

from which,  
 A cedar,50 ins.in diam.,brs.S.83°E.,166 lks.  
 dist., marked  $\frac{1}{4}$  S 9.BT.  
 A cedar, 5 ins.in diam.,brs.S.76°W.,150 lks.  
 dist., marked  $\frac{1}{4}$  S 8 BT.

Ascend 42 ft., over SE.slope.  
 47.00 Spur,slopes E.  
 Descend 40 ft., over N.slope.  
 52.00 Wash, course N.70°E.  
 Ascend 41 ft., over S.slope.  
 55.00 Spur,slopes E.  
 Descend 30 ft.,over NE.slope.  
 62.53 Draw, course N.60°E.  
 Ascend 28 ft., over SE. slope.  
 66.00 Spur,slopes E.  
 Descend 30 ft., over NE.slope.  
 73.50 Center of draw, 200 lks.wide, course SE.  
 Ascend 52 ft.,over SW.slope, to  
 80.00 Set an iron post, 3 ft.long, 2 ins. in diam.,26 ins.in  
 the ground, for cor.of secs.4,5, 8,and 9, marked on  
 brass cap,

T31N	R12W
S 5	S 4
S 8	S 9

 1922

from which,  
 A black wood,8 ins.in diam.,brs.N.80°E.,52  
 lks.dist., marked T31N R12W S4 BT.  
 A cedar, 30 ins.in diam.,brs.S.75°E.,41  
 lks.dist.,marked T31N R12W S9 BT.  
 A cedar, 4 ins.in diam.,brs.S.13°W.,93 lks.  
 dist., marked BT,  
 A cedar, 18 ins.in diam.,brs:N.36°W.,143  
 lks.dist., marked T31N R12W S5 BT.

Land, rolling.  
 Soil,rocky and sandy, 3rd and 4th rate.  
 Timber, cedar and pinyon.  
 Undergrowth, scrub oak,sagebrush and cactus.

S.89°57'E., on random line, bet. secs.4 and 9.  
 40.00 Set temp. $\frac{1}{4}$  sec.cor.  
 80.02 Intersect N. and S. line, 16 lks.S.of the cor.of secs.4,  
 5, 8 and 9.  
 Thence,  
 S.89°56'W., on true line, bet. secs. 4 and 9.  
 Over rolling land, thru.dense timber and undergrowth.  
 Descend 88 ft., over W.slope, to  
 18.60 Rocky wash, 50 lks.wide, course S. 30°W.  
 Ascend 39 ft., over E.slope.  
 24.00 Spur, slopes S.  
 Descend 60 ft., over W. slope.  
 35.50 Draw, course SW.

## 54 Survey of Subdivision lines of Township 31 North, Range 12 West.

Chains.

40.01 Ascend 31 ft., over SE. slope, to  
Spur, slopes S. 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 9  
1922

from which,

A cedar, 8 ins. in diam., brs. S. 56° E., 67 lks.  
dist., marked  $\frac{1}{4}$  S 9 BT.

A cedar, 12 ins. in diam., brs. N. 52° W., 160 lks.  
dist., marked  $\frac{1}{4}$  S 4 BT.

43.92 Descend 22 ft., over SW. slope.  
Draw, 5 lks. wide, course S.  
47.00 Ascend 30 ft., over E. slope.  
Spur, slopes S. 20° E.  
50.50 Descend 35 ft., over W. slope, to  
Draw, course S. 20° W.  
55.50 Descend 30 ft., over S. slope, to  
Draw, 20 lks. wide, course SE.  
60.00 Ascend 25 ft., over SE. slope.  
67.00 Descend 70 ft., over SW. slope.  
Draw, course S.  
68.20 Ascend 8 ft., over SE. slope.  
Point of spur, slopes S.  
70.20 Descend 20 ft., over SW. slope.  
Road, brs. N. and SE. in draw, 200 lks. wide, course SE.  
77.50 Ascend 40 ft., over SE. slope.  
Spur, slopes S. 30° E.  
80.02 Descend 23 ft., over SW. slope, to  
The cor. of secs. 4, 5, 8 and 9.  
Land, rolling.  
Soil, rocky, 4th rate.  
Timber, cedar and pinyon.  
Undergrowth, scrub oak and sagebrush.

40.00 N. 0° 2' E., on random line, bet. secs. 4 and 5.  
Set temp.  $\frac{1}{4}$  sec. cor.  
80.02 Intersect the N. bdy. of the Tp., 5 lks. E. of the cor. of  
secs. 4, 5, 32 and 33, described in Book "A," of this  
Group.  
Thence,  
South, on true line, bet. secs. 4 and 5.  
Over gently rolling land, thru dense timber and under-  
growth.  
19.00 Descend gradually over S. slope.  
Road, brs. N. 20° E. and S. 20° W.  
20.00 Shallow wash, 10 lks. wide, course SW.  
31.00 Descend gradually over SW. slope, to  
Same wash, course SE.  
Ascend gradually over NE. slope, to  $\frac{1}{4}$  sec. cor.  
33.10 Same road, brs. NW and SE.  
40.02 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in  
the ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,

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

from which,

A yellow pine, 14 ins. in diam., brs. S. 12° E., 52  
lks. dist., marked  $\frac{1}{4}$  S 4 BT.

A cedar, 4 ins. in diam., brs. N. 35° W., 34 lks.  
dist., marked BT.

65.00 Ascend 40 ft., over NE. slope.  
Low flat-topped ridge, brs. NW and SE.  
80.02 Descend 60 ft., over SW. slope, to  
The cor. of secs. 4, 5, 8 and 9.



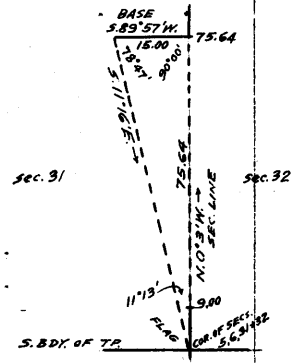
Survey of Subdivision lines of Township 31 North, Range 12 West, 55

Chains.

Land, gently rolling.  
Soil, rocky, 3rd and 4th rate.  
Timber, cedar and pinyon.  
Undergrowth, scrub oak, sagebrush and cacths.

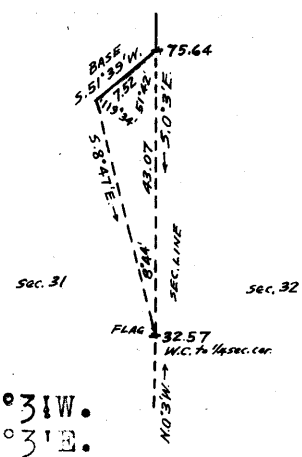
9.00

From the cor. of secs. 5, 6, 31 and 32, on S. bdy. of Tp., here-  
inbefore described,  
N.0°3'W., bet. sacs. 31 and 32.  
Over rolling bench land, thru scattering timber and dense  
undergrowth.  
Descend gradually, over N. slope, to  
S. or right rim of canyon, brs. E. and W. Beyond this point,  
the sec. line crosses a wide deep canyon, and chaining  
is impracticable; therefore, triangulate as follows:  
Set flag on the cor. of secs. 5, 6,  
31 and 32, on the S. bdy. of the Tp.  
From a point ahead on sec. line, at  
opposite rim of canyon, measure  
a Base S.89°57'W., 15.00 chs.  
From W. end of Base, the flag brs.  
S.11°16'E.  
From E. end of Base, the vertical  
angle to flag is 0°.  
Dist. triangulated = 75.64 chs. N.0°3'W.



The point for  $\frac{1}{4}$  sec. cor. falls in wash, 6.00 chs. wide,  
course E. in bottom of canyon, between almost perpen-  
dicular cliffs. It is impracticable to establish  
monument in the bottom of canyon, owing to the danger  
of destruction of same by floods; therefore, establish  
witness cor. on sec. line at top of cliffs S.0°3'E. from  
 $\frac{1}{4}$  sec. cor. point.  
It being impracticable to chain measurement to the witness  
cor., triangulate thereto, as described as follows:

From triangulation point at 75.64 ch.  
station on sec. line, at N. or left. rim  
of canyon, measure a Base S.51°  
39'W., 7.52 chs. along the rim.  
Set flag on sec. line at point se-  
lected for witness cor. to  $\frac{1}{4}$  sec.  
cor.  
From SW. end of Base, the flag brs. S.  
8°47'E.  
The vertical angle from NE. end of  
Base to flag is -18°.  
Dist. on sec. line by  
previous triangulation = 75.64 chs. N.0°3'W.  
Dist. by this triangulation = 43.07 chs. S.0°3'E.  
Dist. to W.C. = 32.57 chs. N.0°3'W.



32.57

Triangulation point at top of cliff about 400 ft. high,  
bearing E and W. facing N., on South side of canyon.  
Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in  
the ground, for witness cor. to  $\frac{1}{4}$  sec. cor., marked  
on brass cap,

$\frac{1}{4}$   
 W | C  
 S31 | S32  
 1922

40.00

No bearing trees available. Raise a mound of stone, 3  
ft. base, 2 ft. high, W. of cor..  
Descend about 400 ft., over almost perpendicular N. face  
of cliff, bearing E and W.  
True point for  $\frac{1}{4}$  sec. cor. in wash, 6.00 chs. wide, course  
E. in bottom of canyon.  
Ascend about 925 ft., over a series of cliffs, facing S.  
and SE.

## 56 Survey of S. division lines of Township 31 North Range 12 West.

Chains.

75.64 Measurement by triangulation to  
Triangulation point at top of cliffs, bearing N.52°E. and  
S.52°W., forming N. or left rim of canyon. Leave can-  
yon.

Enter gently rolling bench land.

80.00 Ascend gradually over E. slope, to  
Set an iron post, 3 ft. long, 2 ins. in diam., 14 ins. in  
the ground to bed rock, supported in a mound of stone,  
for cor. of secs. 29, 30, 31 and 32, marked on brass cap,

T31N	R12W
S30	S29
S31	S32
1922	

from which,

A cedar, 12 ins. in diam., brs. N.74°E., 72 lks.

dist., marked T31N R12W S29 BT.

A cedar, 8 ins. in diam., brs. S.46°E., 65 lks.

dist., marked T31N R12W S32 BT.

A cedar, 8 ins. in diam., brs. S.73°W., 13 lks.

dist., marked T31N R12W S31BT.

A cedar, 8 ins. in diam., brs. N.13°W., 8 lks.

dist., marked T31N R12W S30 BT.

Land, mountainous.

Soil, rocky, 4th rate.

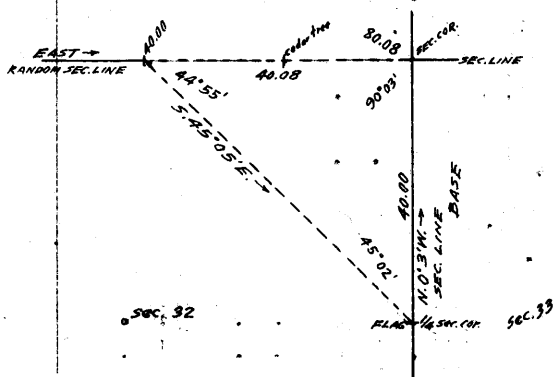
Timber, cedar and pinyon.

Undergrowth, scrub oak, black brush and cactus.

16.00 East, on random line, bet. secs. 29 and 32.  
From this point the trunk of a cedar tree on top of sharp  
rocky pinnacle about 600 ft. high, brs. East about 45  
chs. dist.

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

Beyond this point, the line passes over precipitous bro-  
ken slopes, where chaining is impracticable; therefore,  
triangulate the measurement of the remainder of the  
random sec. line, as follows:



Use the N.  $\frac{1}{4}$  of line, bet. secs.  
32 and 33 as a Base (N.0°3'  
W., 40.00 chs.)

A flag at the  $\frac{1}{4}$  sec. cor. of  
secs. 32 and 33, brs. S.45°  
05'E.

From cor. of secs. 28, 29, 32 and  
33, the trunk of same cedar  
tree sighted from 16.00 ch.  
station, brs. West; therefore,  
said sec. cor. brs. East from  
the temp.  $\frac{1}{4}$  sec. cor. of secs.  
29 and 32.

Dist. on random sec. line = 40.00 chs. East.

Distance triangulated = 40.08 chs. East.

Total length of sec. line = 80.08 chs. East.

80.08 Intersect the cor. of secs. 28, 29, 32 and 33.

Thence,

West, on true line, bet. secs. 29 and 32.

Over mountainous land, thru scattering timber and under-  
growth, bet. two side canyons, course East, into Twin  
Springs Canyon. Measurement to  $\frac{1}{4}$  sec. cor. by triangu-  
lation, as hereinbefore described.

20.00 Ascend over precipitous broken N. and NE. slopes, to  
(Approx.) Cedar tree on line on top of rocky pinnacle about  
600 ft. high. Desc. over precipitous SW. slope, to

30.00 (Approx.) Head of gulch, course SE. Asc. over steep SE. & S. slopes, to

40.04 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  
 $\frac{1}{4}$  sec. cor., marked on brass cap,

Survey of Subdivision lines of Township 31 North, Range 12 West. 57

Chains.

$\frac{1}{4}$  S 29  
S 32  
1922

No bearing trees available.  
 Continue line and measurement by chaining. Over steep broken S. slope, near N. rim of canyon.  
 Ascend 250 ft., to  
 64.10 North, or left rim of canyon, brs. N. 70° E. and S. 70° W. Leave canyon; enter gently rolling land.  
 Descend slightly over NW. slope.  
 67.60 Head of wash, course NE.  
 Ascend gradually over E. slope, to  
 80.08 The cor. of secs. 29, 30, 31 and 32.  
 Land, mountainous and gently rolling.  
 Soil, rocky, 4th rate.  
 Timber, cedar and pinyon.  
 Undergrowth, sagebrush, black brush and cactus.

-----  
 West, on random line, bet. secs. 30 and 31.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 79.06 Intersect the W. bdy. of the Tr., 3 lks. N. of the cor. of secs. 25, 30, 31 and 36, hereinbefore described.  
 Thence,  
 N. 89° 59' E., on true line, bet. secs. 30 and 31.  
 Over gently rolling land, on bench, known as "Twin Point," thru dense timber and undergrowth.  
 Descend gradually over S. and SE. slopes, to  
 39.06 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 30  
S 31  
1922

from which,  
 A cedar, 12 ins. in diam., brs. S. 65° E., 70 lks. dist., marked  $\frac{1}{4}$  S 31 BT.  
 A cedar, 10 ins. in diam., brs. N. 67 $\frac{1}{2}$ ° W., 21 lks. dist., marked  $\frac{1}{4}$  S 30 BT.  
 Descend 45 ft., over E. slope.  
 47.10 Wash, 20 lks. wide, course SE.  
 Ascend 47 ft., over SW. slope.  
 50.46 Descend gradually over SE. and E. slopes, to  
 79.06 The cor. of secs. 29, 30, 31 and 32.  
 Land, gently rolling.  
 Soil, sandy and rocky, 3rd rate.  
 Timber, cedar and pinyon.  
 Undergrowth, sagebrush, scrub oak and cactus.

-----  
 N. 0° 3' W., bet. secs. 29 and 30.  
 Over gently rolling land, on bench, known as Twin Point, thru dense timber and undergrowth.  
 Ascend slightly over E. slope.  
 18.00 Descend slightly over NE. slope, to  
 28.50 South, or right rim of canyon, brs. E. and W. Enter mountainous land.  
 Descend 245 ft., over steep N. slope.  
 36.20 Bottom of canyon, 20 lks. wide, course E.  
 Ascend 182 ft., over steep 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,

$\frac{1}{4}$   
S30 | S29  
1922

from which,

## 58 Survey of Subdivision lines of Township 31 North, Range 12 West.

Chains.

- A pinyon, 10 ins. in diam., brs. N. 39° E., 44 lks.  
dist., marked  $\frac{1}{2}$  S 29 BT.
- A pinyon, 8 ins. in diam., brs. S. 10° W., 94 lks.  
dist., marked  $\frac{1}{2}$  S 30 BT.
- 41.20 Ascend 24 ft. over steep S. slope, to North, or left rim of canyon, brs. E. and W. Leave canyon. Enter gently rolling bench land.
- 67.00 Ascend gradually over SE. and E. slopes.
- 72.00 Descend gradually over NE. slope.
- 78.62 Enter rolling land. Descend 45 ft., over NW. slope.
- 80.00 Draw, course NE. Ascend slightly over E. slope, to Set an iron post, 3 ft. long, 2 ins. in diam., 12 ins. in the ground, to bed rock, supported in a mound of stone for cor. of secs. 19, 20, 29 and 30, marked on brass cap,

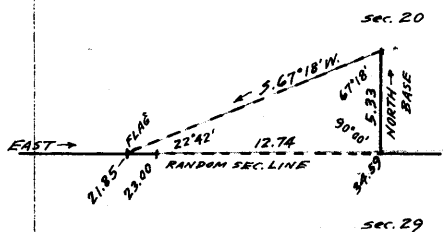
T31N	R12W
S19	S20
S30	S29

1922

from which,

- A cedar, 8 ins. in diam., brs. N. 17° E., 94 lks.  
dist., marked T31N R12W S20 BT.
- A pinyon, 8 ins. in diam., brs. S. 29° E., 28 lks.  
dist., marked T31N R12W S29 BT.
- A cedar, 24 ins. in diam., brs. S. 80° W., 21 lks.  
dist., marked T31N R12W S30 BT.
- A cedar, 8 ins. in diam., brs. N. 12° W., 105 lks.  
dist., marked T31N R12W S19 BT.
- Land, gently rolling and mountainous.  
Soil, sandy and rocky, 4th rate.  
Timber, pinyon and cedar.  
Undergrowth, sage brush, black brush and cactus.

- 21.85 East, on a random line, bet. secs. 20 and 29. Point of spur, slopes NE. Set flag for triangulation hereinafter described. Continue chaining to
- 23.00 Top of cliff, 500 ft. high, brs. NW. and SE., facing NE., and forming S. or left rim of canyon. Precipitous descent beyond this point renders chaining impracticable; therefore, triangulate as described, as follows:



- From a point ahead on random sec. line, measure a Base, North, 5.33 chs.
- From N. end of Base, the flag at 21.85 ch. station, brs. S. 67° 18' W.
- From S. end of Base, the vertical angle to flag is + 26°.

Dist. on random sec. line = 21.85 chs. East.  
Distance triangulated = 12.74 chs. East.  
34.59 chs. East.

- 34.59 Triangulation point. Continue line and measurement by chaining.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor. Beyond this point precipitous slopes render chaining of any portion of the E.  $\frac{1}{4}$  of random sec. line impracticable; therefore, triangulate as described, as follows:

Chains.

The cor. of secs. 20, 21, 28 and 29 is invisible from any point in the W.  $\frac{1}{2}$  of this line; therefore, set flag ahead on random sec. line on point of spur, sloping NE. about 10 chs. W. of said sec. cor.

This flag brs. W. from a point 7 lks. S. of said sec. cor.; therefore the random sec. line projected E. would fall 7 lks. S. of the cor. of secs. 20, 21, 28 and 29.

Use as a Base for this triangulation that part of the meridional sec. line bet. the W.C. to cor. of secs. 16, 17, 20 and 21, and a point 7 lks. S.  $0^{\circ}3'E$ . from cor. of secs. 20, 21, 28 and 29.

The length of this Base is therefore,  $80.00 \text{ chs.} + 1.40 + 0.07 \text{ chs.} = 81.47 \text{ chs.}$  and its bearing is N.  $0^{\circ}3'W$ .

From the temp.  $\frac{1}{4}$  sec. cor. of secs. 20 and 29, a flag at N. end of Base brs. N.  $26^{\circ}10'E$ .

Dist. on random sec. line = 40.00 chs. East.

Distance triangulated = 40.10 chs. East.

Total length of sec. line = 80.10 chs. East.

80.10 Intersect N. and S. line, 7 lks. S. of the cor. of secs. 20, 21, 28 and 29.

Thence, S.  $89^{\circ}57'W$ ., on true line, bet. secs. 20 and 29.

Over mountainous land, thru. dense timber and undergrowth. Measurement to  $\frac{1}{4}$  sec. cor. by triangulation, hereinbefore described.

10.00 Ascend over precipitous NE. slope.

(Approx.) Point of spur, slopes NE.

40.05 Descend over precipitous broken 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,

S 20  
S 29  
1922.

from which,

An oak, 4 ins. in diam., brs. S.  $70^{\circ}E$ ., 11 lks. dist., marked BT.

No other bearing tree available,

Raise a mound of stone, 4 ft. base, 2 ft. high, N. of cor.

40.10 Triangulation point. Continue chaining.

Descend 50 ft., over NW. slope.

45.00 Bottom of gulch, course N..

Ascend slightly over NE. slope, to

45.51 Triangulation point. Discontinue chaining. Measurement of 12.74 chs. by triangulation, hereinbefore described.

Ascend 410 ft., over NE. slope, to

57.10 Top of cliff, brs. NW. and SE. facing NE., and forming right rim of canyon.

Ascend 30 ft., over E. slope, to

58.25 Triangulation point on point of spur, sloping NE. Continue line and measurement by chaining.

Descend 24 ft., over NW. slope.

61.93 Gulch, course NE.

Ascend 277 ft., over SE. slope.

72.30 Spur, slopes NE. Enter rolling land.

Descend 50 ft., over NW. slope.

73.00 Spring brs. N. about 6 chs. dist.

78.75 Draw, course NE.

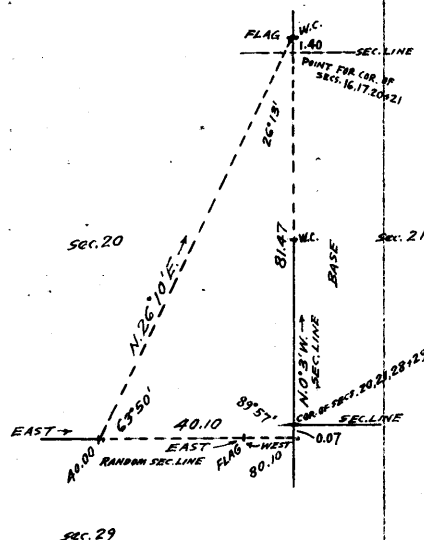
Ascend gradually over E. slope, to

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

Land, mountainous and rolling.

Soil, rocky, 4th rate.

Timber, oak, pinyon and cedar.



## BOOK 3642

60 Survey of Subdivision lines of Township 31 North Range 22 West.

Chains.

Undergrowth, sagebrush, black brush and cacti.

- 40.00 S.  $89^{\circ}59'W.$ , on random line, bet. secs. 19 and 30.  
Set temp.  $\frac{1}{4}$  sec. cor.
- 78.90 Intersect the W. bdy. of the Tp., 15 lks. S. of the cor. for  
secs. 19, 24, 25 and 30, hereinbefore described.  
Thence  
S.  $89^{\circ}54'E.$ , on true line, bet. secs. 19 and 30.  
Over nearly level land, thru. dense timber and undergrowth.  
Descend slightly over E. slope, to
- 38.90 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 19  
S 30  
1922
- from which,  
A cedar, 8 ins. in diam., brs. S.  $60^{\circ}W.$ , 24 lks.  
dist., marked  $\frac{1}{4}$  S 30 BT.  
A cedar, 14 ins. in diam., brs. N.  $70^{\circ}W.$ , 93 lks.  
dist., marked  $\frac{1}{4}$  S 19 BT.
- 42.77 Descend 15 ft., over E. slope.  
Rocky wash, 10 lks. wide, course NE. Enter gently rolling  
land.
- 50.00 Ascend 20 ft., over N. slope.  
Descend gradually over NE. slope.
- 73.00 Enter rolling land.  
Descend 50 ft., over E. slope, to
- 78.90 The cor. of secs. 19, 20, 29 and 30.  
Land, nearly level, gently rolling and rolling.  
Soil, rocky and sandy, 3rd rate.  
Timber, cedar and pinyon.  
Undergrowth, sagebrush, scrub oak and cactus.

- N.  $0^{\circ}3'W.$ , bet. secs. 19 and 20.  
Over rolling land, thru. dense timber and undergrowth.  
Ascend slightly over E. slope, to
- 1.10 Enter mountainous land.  
Descend 91 ft., over NE. slope.
- 6.20 Bottom of gulch, 20 lks. wide, course E.  
Ascend 145 ft., over SE. slope, to
- 11.00 Rim of gulch, bears NE. and SW. Leave gulch. Enter point  
of gently rolling bench.  
Descend slightly over E. slope, to
- 15.00 Rim of gulch, brs. NW. and SE. Enter mountainous land.  
Descend 145 ft., over NE. slope.
- 19.52 Bottom of gulch, 30 lks. wide, course SE.  
Ascend 160 ft., over SW. slope, to
- 22.00 Rim of gulch, brs. NW. and SE. Leave gulch. Enter gently  
rolling land.  
Ascend gradually over E. slope.
- 30.00 Descend gradually over NE. slope, to
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the  
ground to bed rock, supported in a mound of stone, for  
 $\frac{1}{4}$  sec. cor., marked on brass cap,

S19 | S20

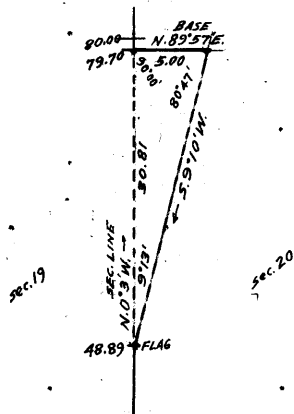
1922

- from which,  
A cedar, 12 ins. in diam., brs. N.  $84^{\circ}E.$ , 20 lks.  
dist., marked  $\frac{1}{4}$  S 20 BT.  
A cedar, 8 ins. in diam., brs. S.  $35^{\circ}W.$ , 39 lks.  
dist., marked  $\frac{1}{4}$  S 19 BT.

Survey of Subdivision lines of Township 31 North, Range 12 West. 61

Chains.

40.17 Rim of gulch, brs. NE. and SW. Enter mountainous land.  
 Descend 91 ft., over NW. slope, to  
 43.30 Bottom of gulch, 10 lks. wide, course NE.  
 Ascend 69 ft., over SE. slope.  
 48.89 Spur, slopes E. Beyond this point, the line passes over a deep canyon, the precipitous sides of which render chaining impracticable; therefore, triangulate as described as follows:  
 Set flag at this point.  
 From a point ahead on sec. 1 line, at opposite rim of canyon, measure a Base N. 89° 57' E., 5.00 chs.  
 From E. end of Base, the flag brs. S. 9° 10' W.  
 From W. end of Base, the vertical angle to flag is 0° and to point on sec. line in bottom of canyon is - 34°.  
 Dist. on sec. line = 48.89 chs. N. 0° 3' W.  
 Dist. triangulated = 30.81 chs. N. 0° 3' W.  
 Total distance = 79.70 chs. N. 0° 3' W.  
 66.00 (Approx.) Bottom of canyon, course E., 610 ft. below 48.89 chain station.  
 Ascend 610 ft., over precipitous S. slope, to  
 79.70 Triangulation point at N. or left rim of canyon, bearing NW. and E.  
 Continue line and measurement by chaining.  
 Enter gently rolling land.  
 Ascend slightly over SE. slope, to  
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 14 ins. in the ground to bed rock, deposit a stone, marked with a cross (x) at base of post, and raise a mound of stone, around post, for cor. of secs. 17, 18, 19 and 20, marked on brass cap;

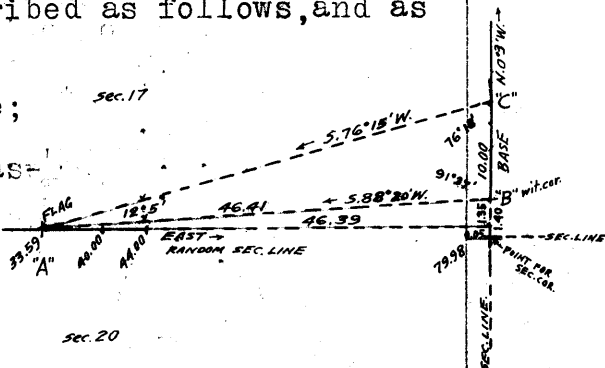


T31N	R12W
S18	S17
S19	S20
1922	

from which,  
 A pinyon, 8 ins. in diam., brs. N. 87° E., 110 lks.  
 dist., marked T31N R12W S17 BT.  
 A cedar, 8 ins. in diam., brs. S. 63° E., 72 lks.  
 dist., marked T31N R12W S20 BT.  
 A cedar limb, 8 ins. in diam., brs. N. 46° W., 70 lks.  
 dist., marked T31N R12W S18 BT.  
 No other bearing tree available.

Land, rolling, mountainous and gently rolling.  
 Soil, rocky, 4th rate.  
 Timber, cedar and pinyon.  
 Undergrowth, sagebrush and cactus.

East, on random line, bet. secs. 17 and 20.  
 33.59 Set flag for triangulation, hereinafter described.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 44.00 Top of cliff, brs. NW. and SE. facing NE. Beyond this point, chaining is impracticable owing to precipitous slopes in canyon; therefore, triangulate measurement of the remainder of the line, as described as follows, and as shown on the diagram hereon:  
 The true point for cor. of secs. 16, 17, 20 and 21 is inaccessible; therefore, from the W.C. thereto indicated on diagram at "B," measure a Base N. 0° 3' W., 10 chs. along the sec. line, bet. secs. 16 and 17 to point "C."  
 From point "C" the flag at 33.59 ch. station on random sec. line indicated on diagram at "A" brs. S. 76° 15' W.



## 62 Survey of Subdivision lines of Township 31 North, Range 12 West.

Chains.

From point "B" the flag at "A" brs. S.  $88^{\circ}20'W.$ , and the vertical angle is  $+ 2^{\circ}$ .  
 Triangulated dist. "A-B" = 46.41 chs. N.  $88^{\circ}20'E.$   
 Latitude of "A-B" = 1.35 chs. N.  
 Departure of "A-B" = 46.39 chs. E.  
 Dist. on random sec. line = 33.59 chs. E.

Total length of sec. line = 79.98 chs. E.  
 Point "B" being 1:40 chs. N.  $0^{\circ}3'W.$  from sec. cor. point, the random sec. line projected East would therefore, at  
 79.98 Intersect N. and S. line, 5 lks. N. of the true point for cor. of secs. 16, 17, 20 and 21.  
 Thence, N.  $89^{\circ}58'W.$ , on true line, bet. secs. 17 and 20.  
 Over mountainous land, across canyon, thru dense timber and undergrowth.  
 Measurement by triangulation, hereinbefore described.  
 Descend about 510 ft. over precipitous broken SW. slope, to  
 30.00 (Approx.) Bottom of canyon, 100 lks. wide, course SE.  
 Ascend about 300 ft., over precipitous E. slope, to  
 36.00 Top of cliff, bearing NW and SE. facing E.  
 Continue line and measurement by chaining.  
 Ascend 120 ft., over steep E. slope, to  
 39.99 Set an iron post, 3 ft. long, 1 in. in diam., 8 ins. in the ground to bed rock, supported in a mound of stone, for  $\frac{1}{4}$  sec. cor., marked on brass cap,

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

from which,

A pinyon, 12 ins. in diam., brs. N.  $62^{\circ}E.$ , 8 lks. dist., marked  $\frac{1}{4}$  S 17 BT.  
 A pinyon, 14 ins. in diam., brs. S.  $12^{\circ}W.$ , 25 lks. marked  $\frac{1}{4}$  S 20 BT.

Ascend 200 ft., over steep E. slope, to  
 46.39 West or right rim of canyon, brs. NW. and S. and turns to W. at about 100 lks. S. forming N. or left rim of another canyon. Leave canyon. Enter rolling land.  
 Ascend gradually over SE. and S. slopes, about 100 lks. N. of canyon, rim bearing E. and W.  
 70.00 Descend 30 ft., over SW. slope.  
 75.00 Ascend gradually over SE. slope, to  
 79.98 The cor. of secs. 17, 18, 19 and 20.  
 Land, mountainous and rolling.  
 Soil, rocky, 4th rate.  
 Timber, cedar and pinyon.  
 Undergrowth, sagebrush, scrub oak and cactus.

0.82 N.  $89^{\circ}54'W.$ , on random line, bet. secs. 18 and 19.  
 Rim of gulch, brs. NW. and SE. Discontinue chaining, and triangulate across gulch, as described as follows:  
 Measure a Base, N.  $45^{\circ}54'W.$ , 5.00 chs., along rim of gulch.

Set flag ahead on random sec. line on opposite side of gulch, the vertical angle to which is  $+ 2^{\circ}$ .

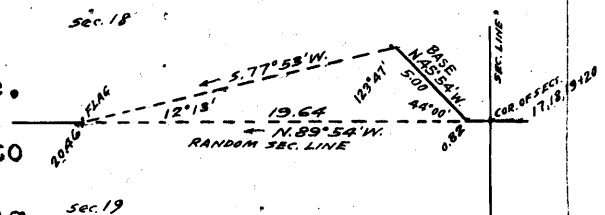
From NW. end of Base, the flag brs. S.  $77^{\circ}53'W.$

From SE. end of Base, the vertical angle to point ahead on random sec. line in bottom of gulch is  $- 25^{\circ}$ .

Dist. on random sec. line = 0.82 chs. N.  $89^{\circ}54'W.$

Distance triangulated = 19.64 chs. N.  $89^{\circ}54'W.$

Total distance = 20.46 chs. N.  $89^{\circ}54'W.$





Survey of Subdivision lines of Township 31 North, Range 12 West. 63

Chains.	
20.46	Triangulation point. Continue line and measurement by chaining.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
78.78	Intersect the W. bdy. of the Tp., 12 lks. N. of the cor. of secs. 13, 18, 19 and 24, hereinbefore described. Thence, S. $89^{\circ}59'E.$ , on true line, bet. secs. 18 and 19. Over gently rolling land, thru. dense timber and undergrowth. Ascend gradually over NW. slope.
19.00	Descend gradually over NE. slope, to
38.78	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 18 S 19 1922
	from which, A cedar, 24 ins. in diam., brs. S. $80^{\circ}E.$ , 50 lks. dist., marked $\frac{1}{4}$ S 19 BT. A cedar, 8 ins. in diam., brs. N. $57^{\circ}W.$ , 38 lks. dist., marked $\frac{1}{4}$ S 18 BT.
41.50	Descend slightly over NE. slope, to West or right rim of gulch, brs. N. and S. Enter mountainous land.
49.18	Descend 270 ft., over steep E. slope. Bottom of gulch, course S. $20^{\circ}E.$
58.32	Ascend 220 ft., over SW. slope, to Triangulation point on spur, slopes SE. Discontinue chaining, and triangulate across gulch, as hereinbefore described.
68.78	Descend about 350 ft., over SE. slope. (Approx.) Bottom of gulch, course S.
77.96	Ascend about 300 ft., over SW. slope, to Triangulation point on E. or left rim of gulch, brs. NW. and SE. Continue line and measurement by chaining.
78.78	Enter gently rolling land.. The cor. of secs. 17, 18, 19 and 20. Land, gently rolling and mountainous. Soil, rocky, 4th rate. Timber, cedar and pinyon. Undergrowth, sage brush and scrub oak.
-----	
	N. $0^{\circ}3'W.$ , bet. secs. 17 and 18. Over gently rolling land, thru. dense timber and undergrowth. Ascend gradually over SE. and E. slopes to
30.00	Right rim of canyon, brs. E. and W. Enter mountainous land in canyon.
40.00	Descend 70 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 in mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap,  $\frac{1}{4}$ S 18   S 17 1922
	from which, A cedar, 36 ins. in diam., brs. S. $88^{\circ}E.$ , 98 lks. dist., marked $\frac{1}{4}$ S 17 BT. A cedar, 10 ins. in diam., brs. N. $83^{\circ}W.$ , 71 lks. dist., marked $\frac{1}{4}$ S 18 BT.
42.00	Descend 30 ft., over N. slope, to Draw, course NE.
52.00	Descend 425 ft., over steep NE. slope. Center of wash, 150 lks. wide, 6 ft. deep, course E. in bottom of canyon. Ascend 500 ft., over steep S. slope, to

## 64: Survey of Subdivision lines of Township 31 North, Range 12 West.

Chains.

- 65.00 Left rim of canyon, brs. E. and NW. Leave canyon. Enter gently rolling land.  
Ascend gradually over SE. slope, to
- 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 14 ins. in the ground to bed rock, supported in a mound of stone, for cor. of secs. 17, 18, 19 and 20, marked on brass cap,

T31N	R12W
S 7	S 8
S18	S17

1922

from which,

- A pinyon, 8 ins. in diam., brs. N. 70° E., 10 lks. dist., marked T31N R12W S8 BT.  
A cedar, 8 ins. in diam., brs. S. 41° E., 23 lks. dist., marked T31N R12W S17 BT.  
A cedar limb, 6 ins. in diam., brs. S. 67° W., 101 lks. dist., marked T31N R12W S18 BT.  
A cedar, 14 ins. in diam., brs. N. 43° W., 91 lks. dist., marked T31N R12W S7 BT.

Land, gently rolling and mountainous.

Soil, sandy and rocky, 4th rate.

Timber, cedar and pinyon.

Undergrowth, sagebrush, black brush and cactus.

- 40.00 s. 89° 58' E., on random line, bet. secs. 8 and 17.  
Set temp.  $\frac{1}{4}$  sec. cor.  
Beyond this point, the random sec. line crosses precipitous slopes in Twin Springs Canyon, and chaining is impracticable; therefore, triangulate as follows:

Set flag at this point.

From a point ahead on random sec. line at left rim of canyon, measure a Base N. 34° 20' W., 8.60 chs.

From NW. end of Base, the flag brs. S. 63° 25' W.

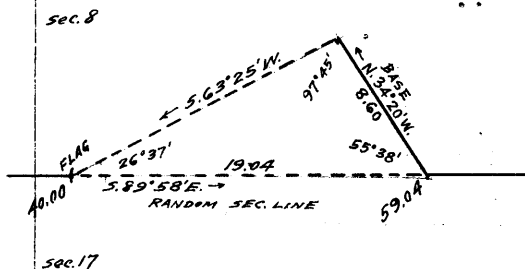
From SE. end of Base, the vertical angle to flag is - 8° and to point on random sec. line in bottom of canyon is - 34°.

Dist. on random sec. line = 40.00 chs. S. 89° 58' E.

Distance triangulated = 19.04 chs. S. 89° 58' E.

59.04 chs. S. 89° 58' E.

- 59.04 Triangulation point. Continue line and measurement by chaining.
- 79.84 Intersect the cor. of secs. 8, 9, 16 and 17, thence N. 89° 58' W. to true line, bet. secs. 8 and 17. Over rolling land, thru dense timber and undergrowth. Ascend 12 ft., over E. slope.
- 2.00 SE. end of bridge, brs. SE. and NW. Enter mountainous land. Descend 73 ft., over SW. slope.
- 9.30 Wash, 10 lks. wide, course S. near head. Spring brs. south about 10 chs. dist. Ascend 60 ft., over SE. slope.
- 13.00 Point of spur, slopes S. Descend 50 ft., over SW. slope, to
- 20.80 Triangulation point at E. or left rim of Twin Spring Canyon, brs. NW. and SE. Discontinue chaining. Measurement of 10.04 chs. by triangulation, as hereinbefore described. Descend about 490 ft., over precipitous SW. slope.
- 26.00 (Approx.) Trail, brs. NW. and SE.
- 32.00 (Approx.) Bottom of Twin Springs Canyon, brs. N. about 7 chs. dist. Ascend about 315 ft. over precipitous NE. slopes to sec. cor.
- 39.84 Triangulation point. Continue line and measurement by chaining.



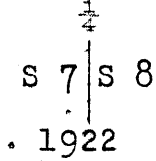
Survey of Subdivision lines of Township 31 North, Range 12 West. 65

Chains.	
39.92	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 8 S 17 1922  from which, A pinyon, 12 ins. in diam., brs. N. 64° E., 10 lks. dist., marked S 8 BT. A pinyon, 12 ins. in diam., brs. S. 20° W., 18 lks. dist., marked S 17 BT. Ascend 165 ft., over steep NE. slope to right rim of Twin Springs Canyon.
40.05	Trail, brs. N. 85° E. and S. 85° W.
40.85	Same trail, brs. NW. and SE.
43.60	Trail, brs. N. 70° W. and S. 70° E.
44.85	W. or left rim of Twin Springs Canyon, brs. NW. and SE. Leave canyon. Enter rolling land. Ascend 70 ft., over NE. slope.
55.00	Descend 85 ft., over SW. slope.
61.74	Wash, 20 lks. wide, in gulch, course SE. Ascend 43 ft., over NE. slope, to
65.00	Rim of gulch, brs. NW. and SE. Enter gently rolling land. Ascend 50 ft., over E. slope, to
79.84	The cor. of secs. 7, 8, 17 and 18. Land, rolling, mountainous and gently rolling. Soil, rocky, 3rd and 4th rate. Timber, cedar and pinyon Undergrowth, scrub oak and sagebrush.
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40.00	N. 89° 59' W., on random line, bet. secs. 7 and 18. Set temp. $\frac{1}{4}$ sec. cor.
78.63	Intersect the W. bdy. of the Tp., 9 lks. S. of the cor. of secs. 7, 12, 13 and 18, hereinbefore described. Thence, S. 89° 55' E., on true line, bet. secs. 7 and 18. Over gently rolling land, thru. dense timber and undergrowth. Descend gradually over SE. and E. slopes.
6.60	Road, brs. NE. and SW.
9.60	Wire fence, brs. N. 70° E. and S. 70° W.
35.55	Trail, brs. NE. and SW.
36.50	Draw, course NE. Enter mountainous land in head of canyon. Ascend 20 ft., over NW. slope, to
38.63	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 7 S 18 1922  from which, A cedar, 8 ins. in diam., brs. S. 65° E., 146 lks. dist., marked S 18 BT. An oak, 4 ins. in diam., brs. N. 40° W., 25 lks. dist., marked BT. Descend 35 ft., over NE. slope.
44.10	Wash, 20 lks. wide, course SE. in bottom of canyon.
50.00	Ascend 55 ft., over SW. slope, to Left rim of canyon, brs. NW. and SE. Leave canyon. Enter rolling land. Ascend 40 ft., over S. slope.
61.50	Enter gently rolling land. Descend gradually over SE. and E. slopes, to
78.63	The cor. of secs. 7, 8, 17 and 18. Land, gently rolling; mountainous and rolling. Soil, rocky and sandy, 4th rate. Timber, pinyon and cedar. Undergrowth, scrub oak, sagebrush and cactus.
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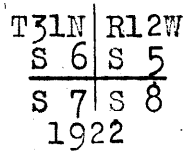
66 Survey of Subdivision lines of Township 31 North, Range 12 West.

Chains.

N.0°3'W., bet. secs.7 and 8.  
 Over gently rolling land, thru.dense timber and undergrowth.  
 Ascend gradually over E.slope to  $\frac{1}{4}$  sec.cor.  
 17.10 Draw, course E.  
 24.90 Wash, 5 lks.wide, course E.  
 25.90 Gate in brush fence, brs.E.and W. Corral brs.E.about 7  
 chs.dist.  
 38.40 Road, 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,



from which,  
 A cedar, 8 ins.in diam., brs.S.68 $\frac{1}{2}$ °E., 65 lks.  
 dist., marked  $\frac{1}{4}$ S-8 BT.  
 A cedar, 8 ins. in diam., brs.S.46 $\frac{1}{2}$ °W., 45 lks..  
 dist., marked  $\frac{1}{4}$ S 7 BT.  
 Descend 50 ft. over NE.slope, to  
 47.80 Bend in wash, 20 lks.wide, from NE., course S.20°E.  
 Ascend gradually over E.slope, to  
 55.60 Wash, 30 lks.wide, 10 ft.deep, course SE.  
 Ascend gradually over SE.slope,  
 59.20 Road, brs.SW.and NE.  
 77.00 Draw, course SE.  
 Ascend gradually over SW.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,



from which,  
 A cedar, 20 ins.in diam., brs.N.10°E., 148  
 lks.dist., marked T31N R12W S5 BT.  
 A yellow pine, 10 ins.in diam., brs.S.7 $\frac{1}{2}$ °E., 271  
 lks.dist., marked T31N R12W S8 BT.  
 A cedar, 18 ins.in diam., brs.S.62°W., 86  
 lks.dist., marked T31N R12W S7 BT.  
 A cedar, 14 ins. in diam., brs.N.74 $\frac{1}{2}$ °W., 170  
 lks.dist., marked T31N R12W S6 BT.  
 Land, gently rolling.  
 Soil sandy and rocky, 3rd rate.  
 Timber, cedar, pinyon and yellow pine.  
 Undergrowth, sagebrush, dogwood and cactus.

-----  
 S.89°58'E., on random line. bet. secs.5 and 8.  
 40.00 Set temp. $\frac{1}{4}$  sec.cor.  
 80.02 Intersect N. and S. line, 13 lks.S. of the cor.of secs.  
 4,5,8.and 9..  
 Thence,  
 S.89°56'W. on true line, bet. secs. 5 and 8.  
 Over rolling land, thru.dense timber and scattering under-  
 growth.  
 Descend slightly over SW.slope, to  
 1.00 Draw, course SE.  
 Ascend gradually over NE.slope, to  
 5.50 Draw, course NE.  
 Ascend 40 ft. over E.slope.  
 15.00 NE.end of broad spur, slopes NE.  
 Descend 44 ft. over NW.slope.  
 24.00 Shallow wash, course NE.  
 3.00 Ascend gradually over NE.slope, to

Survey of Subdivision lines of Township 31 North Range 12 West. 67

Chains.

30.00 Shallow draw, course NE.  
Ascend 42 ft., over E. slope, to  
40.01 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the  
ground, for  $\frac{1}{4}$  sec. cor., marked on brass cap,

$\frac{1}{4}$  S 5  
S 8  
1922

from which,  
A cedar, 4 ins. in diam., brs. N. 47° E., 27 lks.  
dist., marked BT.  
A cedar, 8 ins. in diam., brs. S. 77° W., 31 lks.  
dist., marked  $\frac{1}{4}$  S 8 BT.

Ascend 58 ft., over E. slope.  
50.00 Ridge, brs. N. 20° E. and S. 20° W.  
Descend 70 ft., over NW. slope.  
63.50 Shallow draw, course NW.  
Descend gradually over NW. slope.  
71.40 Road, brs. NE. and SW.  
74.50 Shallow draw, course SW.  
Descend gradually over SW. slope, to  
80.02 The cor. of secs. 5, 6, 7 and 8.

Land, rolling.  
Soil, rocky and sandy, 4th rate.  
Timber, cedar and pinyon.  
Undergrowth, sagebrush and scrub oak.

40.00 N. 89° 55' W., on random line, bet. secs. 6 and 7.  
Set temp.  $\frac{1}{4}$  sec. cor.  
78.48 Intersect the W. bdy. of the Tp., 2 lks. N. of the cor. of  
secs. 1, 6, 7 and 12, hereinbefore described.

Thence,  
S. 89° 56' E., on true line, bet. secs. 6 and 7.  
Over gently rolling land, thru dense timber and undergrowth.  
Descend gradually over SE. slope to  $\frac{1}{4}$  sec. cor.

12.48 Head of shallow draw, course SE.  
31.50 Head of draw, course S. 30° E.  
38.48 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 6  
S 7  
1922

from which,  
A cedar, 14 ins. in diam., brs. N. 34° E., 144 lks.  
dist., marked  $\frac{1}{4}$  S 6 BT.  
A pinyon, 12 ins. in diam., brs. S. 24° E., 252 lks.  
dist., marked  $\frac{1}{4}$  S 7 BT.

Descend gradually over SE. slope.  
61.48 Draw, course SE. Continue gradual descent over SE. slope.  
77.48 Shallow draw, course S. 20° E.  
Ascend slightly over SW. slope, to  
78.48 The cor. of secs. 5, 6, 7 and 8.

Land, gently rolling.  
Soil, sandy and rocky, 3rd and 4th rate.  
Timber, pinyon and cedar.  
Undergrowth, sagebrush, scrub oak and cactus.

40.00 North, on random line, bet. secs. 5 and 6.  
Set temp.  $\frac{1}{4}$  sec. cor.  
79.96 Intersect the N. bdy. of the Tp., 9 lks. E. of the cor. of secs.  
5, 6, 31 and 32, described in Book "A" of this group.

Thence,  
S. 0° 4' E., on true line, bet. secs. 5 and 6.  
Over gently rolling land, thru scattering timber and dense  
undergrowth.  
Descend slightly over SE. slope.

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## 68 Survey of Subdivision lines of Township 31 North, Range 12 West.

Chains.  
 2.00 Head of draw, course N.55°E.  
 Ascend gradually over N.slope.  
 10.00 Descend gradually over S.slope, to  
 26.00 Gully, course SW.  
 Descend gradually over SW.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 6 | S 5  
 1922

from which,

A cedar, 8 ins.in diam., brs.N.82 $\frac{1}{2}$ °E., 110 lks.  
 dist., marked  $\frac{1}{4}$  S 5 BT.

A cedar, 14 ins.in diam., brs.N.68 $\frac{1}{2}$ °W., 537 lks.  
 dist., marked  $\frac{1}{4}$  S 6 BT.

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

Descend gradually over SW.slope to sec.cor.

47.50 Draw, course SW.

62.00 Draw, course SW.

79.96 The cor.of secs.5,6,7 and 8.

Land, gently rolling.

Soil, sandy and rocky, 3rd rate.

Timber, cedar and pinyon.

Undergrowth, sagebrush, scrub oak and cactus.

The continued satisfactory adjustment of the solar appa-  
 ratus of Buff & Buff Transits Nos.9977 and 10125 used  
 by Hiester and Kinsey in the execution of surveys de-  
 scribed in the foregoing field notes is indicated from  
 field tests described in Book "D."

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

Nov.18, 1917: Examine the adjustment of the instrument,  
 correct all errors, and test the solar as follows:

At camp, near cedar of sec.24, T.33 N., R.13 W., lat.36°  
 14 $\frac{1}{2}$ 'N., longitude, 113°39'W., at 8h.00m.a.m., l.m.t.,  
 set off 36°14 $\frac{1}{2}$ 'N.on the lat.arc; 19°8 $\frac{1}{2}$ 'S.on the decl.  
 arc, and determine a meridian with the solar, which  
 agrees with the true meridian determined at this point  
 by Polar observations on July 21, 1917.

At apparent noon, set off 19°13'S.on the decl.arc, and ob-  
 serve the sun on the meridian. The resulting reading  
 of the lat.arc is 36°14 $\frac{1}{2}$ 'N.

At 4h.0m.p.m., l.m.t.; set off 36°14 $\frac{1}{2}$ 'N., on the lat.arc; 19°  
 13'S. on the decl.arc, and determine a meridian with the  
 solar, which agrees with the true meridian.

As all of the solar observations during the usual hours  
 of solar work come within 1'30" of the true meridian,  
 conclude that the adjustment of the instrument during  
 the execution of surveys under Group 74 has been  
 satisfactory.

FINAL FIELD TEST OF BUFF SOLAR TRANSIT NO.10125, BY LOYD  
E. SECHRIST, U. S. TRANSITMAN.

Nov.14, 1917: Examine the adjustment of the transit, and  
 correct all errors; then, to test the solar apparatus  
 by comparing its indications resulting from solar ob-  
 servations made during a.m. and p.m. hours, with the

Survey of Subdivision lines of Township 31 North Range 12 West. 69

true meridian determined July 21, 1917, by Polaris observations at camp, near the center of sec. 24, T. 33 N., R. 13 W., lat.  $36^{\circ}14\frac{1}{2}'N.$ ; long.  $113^{\circ}39'W.$ , proceed as follows:  
 At 8h.0m., a.m., l.m.t., set off  $36^{\circ}14\frac{1}{2}'N.$  on the lat. arc;  $18^{\circ}9'S.$  on the decl. arc, and determine a meridian with the solar, which agrees with the true meridian.  
 At apparent noon, set off  $18^{\circ}13'S.$  on the decl. arc, and observe the sun on the meridian. The resulting reading of the lat. arc is  $36^{\circ}14\frac{1}{2}'N.$   
 At 4h.0m.p.m., l.m.t., set off  $36^{\circ}14\frac{1}{2}'N.$  on the lat. arc;  $18^{\circ}14'S.$  on the decl. arc, and determine a meridian with the solar, which agrees with the true meridian.  
 From the results of the above described field tests, conclude that the solar apparatus has been in continued satisfactory adjustment throughout the surveys executed under Group No. 74.

Boundaries of Township 31 North, Range 12 West.  
 Latitudes, departures and closing errors.

Line designated.	True bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
South boundary,	S. $89^{\circ}58'W.$	479.16		.28		479.16
West boundary,	North,	480.00	480.00			
North boundary,	S. $89^{\circ}58'E.$	478.15		.28	478.15	
East boundary,	South,	480.00		480.00		
Convergency,					.53	
<u>Totals.</u>			480.00	480.56	478.68	479.16
				480.00		478.68
<u>Error in latitude.</u>			0.56			
<u>Error in departure.</u>					0.48	

GENERAL DESCRIPTION.

This township contains every character of surface. The mountainous land is located on the slopes of Mt. Dellenbaugh; in Twin Springs Canyon, and its tributary canyons and canyons in secs. 25, 26, 35 and 36. The remainder of the surface is rolling and gently rolling, with the exception of small areas of level and nearly level surface in scattered locations.

The top of Mt. Dellenbaugh is situated in the SE.  $\frac{1}{4}$  of sec. 2. Twin Springs Canyon heads in sec. 8, and traverses the central part of the Tp. in a southeasterly and southerly course, joined by many side canyons. The East Fork of Parashont Wash, course northerly, heads in sec. 1, and the West Fork of Parashont Wash, course northwesterly, heads in sec. 2.

There are no water courses carrying a permanent flow of water. The water supply consists of five springs located as follows: One in SE.  $\frac{1}{4}$  of sec. 8, known as Twin Spring, one in NW  $\frac{1}{4}$  of sec. 16, one in NE.  $\frac{1}{4}$  of sec. 17, one in SW.  $\frac{1}{4}$  of sec. 20 and one in sec. 28, near the W.  $\frac{1}{4}$  sec. cor.

The soil is rocky, 3rd and 4th rate, with the exception of parts of the W. range of secs., where there is a heavy clay, 2nd and 3rd rate.

The timber, consisting of cedar and pinyon, is dense in all sections, except in part of the S. tier of secs., where it is

scattering, and part of the W. range of secs., where a medium heavy growth is prevalent.

The undergrowth consisting of scrub oak, sagebrush, black brush, manzanita, greasewood and cactus, is dense in all secs. The undergrowth is scattering in several small areas in various parts.

There are no settlers, and the only improvements are a corral at the head of Twin Springs Canyon in sec. 8, and a fence extending southwesterly from the corral thru secs. 8, 7, and 18.

A road bearing NE and SW. between the Sturzenegger Ranch in T. 32 N., R. 12 W., and Neilson Point in T. 30 N., R. 13 W. passes thru the northwestern part of this township, a trail traverses Twin Springs Canyon, and another trail crosses the bench land in the SE. part of the Tp.

There are no indications of valuable mineral deposits.

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4-680

FIELD ASSISTANTS. to

Loyd E. Sechrist, U. S. Transitman.

NAMES.	CAPACITY.
George S. Henry,	1st chainman,
George W. Curry,	2nd chainman,
Eleazar Alldredge,	cornerman,
Don E. Lossie,	axman,
Vivian Bundy,	flagman.

CERTIFICATE OF UNITED STATES TRANSITMAN.

I, Loyd E. Sechrist, U.S. Transitman, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General, for Group 74, Arizona, bearing date of the 12th day of October, 1916, 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 31 NORTH, RANGE 12 WEST,

of the Gila and Salt River Base & Meridian, in the State of Arizona, which are represented in the foregoing field notes and by diagram on page 4 hereof 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 74, 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, Arizona,

Loyd E. Sechrist (deceased)

Date: May 29, 1924.

By [Signature] U.S. Transitman,

APPROVAL. Asst. Supervisor of Surveys.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

191

The foregoing field notes of the survey of

executed by

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

U. S. Surveyor General.

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

U. S. Surveyor General.



CERTIFICATE OF UNITED STATES SURVEYOR.

I, William H. Thorn, U. S. Surveyor, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General, for Group 74, Arizona, bearing date of the 12th day of October, 1916, 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 31 NORTH, RANGE 12 WEST,

of the Gila and Salt River Base & 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 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 74, Arizona and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Place - Redlands Caly
Date - June 5 1924

William H. Thorn
U. S. Surveyor.

APPROVAL

Office of the United States Surveyor General,

191

The foregoing field notes of the survey of

executed by

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

U. S. Surveyor General.

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

U. S. Surveyor General.

4-680

FIELD ASSISTANTS. to

Benjamin J. Kinsey, U. S. Transitman,

NAMES.	CAPACITY.
Harold Morrey,	1st chainman,
Harry Pearce,	2nd chainman,
Chester Bundy,	cornerman,
Henry McKelvey,	axman,
Thomas Tennison,	flagman.

CERTIFICATE OF UNITED STATES TRANSITMAN.

I, Benjamin J. Kinsey, U. S. Transitman, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General, for Group 74, Arizona, bearing date of the 12th day of October, 1916, 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 East and South boundaries and Subdivision lines of

TOWNSHIP 31 NORTH, RANGE 12 WEST,

of the Gila and Salt River Base and Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed by me, and under my direction; and that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General, for Group 74, 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: Nov. 1, 1924

Benjamin J. Kinsey  
U. S. Transitman

APPROVAL:

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

The foregoing field notes of the survey of

19

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.

U. S. Surveyor General.



CERTIFICATE OF UNITED STATES SURVEYOR.

I, William E. Hiester, U. S. Surveyor, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General, for Group 74, Arizona, bearing date of the 12th day of October, 1916, 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 East and South boundaries, and Subdivision lines of

TOWNSHIP 31 NORTH, RANGE 12 WEST,

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 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 74, Arizona, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Place: Hurricane Utah. William E. Hiester U. S. Surveyor. Date: Jan. 24, 1925 APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona, FEB 16 1925, 1925

The foregoing field notes of the survey of the West, East and South boundaries, and Subdivision lines of

TOWNSHIP 31 NORTH, RANGE 12 WEST,

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

executed by William H. Thorn and William E. Hiester, U.S. Surveyors, and Lloyd E. Sechrist and Benjamin J. Kinsey, U.S. Transitmen,

under the special instructions dated October 12, 1916, for Group 74, Arizona, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Charles M. Douglas 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.