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Book "E"

4-679

BOOK 3644 FIELD NOTES

OF THE SURVEY OF THE

West Boundary

East Boundary

South Boundary and

Subdivision Lines of

Township 30 North, Range 11 West

Of the Gila and Salt River Base and Meridian,

In the State of Arizona

EXECUTED BY

William E. Hiester, U.S. Surveyor

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 No. 74, Arizona, which were approved by the Commissioner of the General Land Office, October 24, 1916, and Assignment Instructions dated August 11, 1921 and March 30, 1922.

Survey commenced July 20, 1922

Survey completed June 1, 1923

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(1A)

Book "E"
Group 74 - Arizona

BOOK 3644

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———— Lines surveyed under this group.
 - - - - - Unsurveyed.

Surveys hereinafter described were executed by William E. Hiester, U.S. Surveyor and Benjamin J. Kinsey, U.S. Transitman, on dates shown on diagram on page 1, hereof using Buff transits Nos. 9977 and 10125, respectively. The transits are equipped with full vertical circles and Smith solar attachments and were approved by the Assistant Supervisor of Surveys, conditional upon satisfactory field tests.

Field test of Instrument No. 10125 by Benjamin J. Kinsey, U.S. Transitman.

July 16, 1922: Examine the adjustments of the transit, and find no errors; then test the solar apparatus as follows:

At camp, near $\frac{1}{4}$ sec. cor. of secs. 9 and 16, T. 31 N., R. 11 W., Gila and Salt River Base and Meridian, Arizona, in latitude $36^{\circ} 5\frac{1}{2}' N.$; longitude, $113^{\circ} 29' W.$, at 8h. 0m. a.m., l.m.t. set off $36^{\circ} 5\frac{1}{2}' N.$ on the lat. arc; $21^{\circ} 27' N.$ on the decl. arc, and determine a meridian with the solar, which agrees with true meridian determined at this point June 22, 1922, by Polaris observation, as described in Book "D" of this group.

At apparent noon, set off $21^{\circ} 25' N.$ on the decl. arc, and observe the sun on the meridian. The resulting reading of the lat. arc is $36^{\circ} 5\frac{1}{2}' N.$

At 4h. 0m., p.m., l.m.t., set off $36^{\circ} 5\frac{1}{2}' N.$ on the lat. arc, $21^{\circ} 23\frac{1}{2}' N.$ on the decl. arc, and determine a meridian with the solar, which agrees with the true meridian.

From the results of the above-described field tests, conclude that the instrument is in satisfactory adjustment.

Field test of Instrument No. 9977 by William E. Hiester, U.S. Surveyor.

Feb. 23, 1923: Examine the adjustments of the transit, and correct all errors; then, test the solar apparatus as follows:

At camp near center of sec. 23, T. 29 N., R. 11 W., Gila and Salt River Base and Meridian, Arizona, in latitude, $35^{\circ} 54' N.$; longitude $113^{\circ} 27' W.$, at 8h. 0m. a.m., l.m.t., set off $35^{\circ} 54' N.$ on the lat. arc; $10^{\circ} 0\frac{1}{2}' S.$ on the decl. arc; and determine a meridian with the solar, which agrees with the true meridian determined by Polaris observation at this point, Dec. 21, 1922, by Benjamin J. Kinsey, U.S. Transitman, as described in Book "F" of this group.

At apparent noon, set off $9^{\circ} 58' S.$ on the decl. arc, and observe the sun on the meridian. The resulting reading of the lat. arc is $35^{\circ} 54' N.$

At 4h. 0m., p.m., l.m.t., set off $35^{\circ} 54' N.$ on the lat. arc; $9^{\circ} 54' S.$ 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 instrument is in satisfactory adjustment.

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, the slope angles determined with clinometer, and the slope distances reduced to the horizontal equivalent for entry in the field notes.

Survey of West boundary of Township 30 North Range 11 West. (3)

Chains.

From the cor. of Ts. 30 and 31 N., Rs. 11 and 12 W., described in Book "C" of this group, South, on true line, bet. secs. 1 and 6.
 Over mountainous land, thru scattering timber and dense undergrowth.
 Descend 200 ft., over S. slope.
 13.60 Wash, 50 lks. wide, course S. 70° E.
 Ascend 300 ft., over N. slope.
 33.00 Spur, slopes NE.
 Ascend 30 ft. over E. slope, to
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,

S. 1 | S 6

1922

from which,

A pinyon, 8 ins. in diam., brs. S. 32 $\frac{1}{2}$ ° E., 27 lks. dist., marked $\frac{1}{4}$ S 6 BT.

A pinyon, 14 ins. in diam., brs. S. 15° W., 67 lks. dist., marked $\frac{1}{4}$ S 1 BT.

Beyond this $\frac{1}{4}$ sec. cor., the range line passes over a series of almost perpendicular cliffs, facing NE. on the W. or right side of Green Spring Canyon. Chaining is impracticable; therefore, triangulate as described as follows, and as shown on the diagram hereon:

From cor. of secs. 5, 6, 31 and 32, on N. bdy. of T. 30 N., R. 11 W., survey temp. sec. line S. 0° 3' E., bet. secs. 5 and 6 of said Tp., setting temp. $\frac{1}{4}$ sec. cor. at 40.00 chs. and temp. sec. cor. at 80.00 chs.

Set flag on the temp. $\frac{1}{4}$ sec. cor., indicated on diagram at "A," which brs. N. 89° 59' E. from the $\frac{1}{4}$ sec. cor. of secs. 1 and 6, on W. bdy. of Tp.

Set flag at point indicated on diagram at "C," which brs. S. 63° 59' W. from "A" and S. 89° 59' W. from the temp. cor. of secs. 5, 6, 7 and 8, indicated on diagram at "B."

The bearing of "B-C" being parallel to the latitudinal center line of sec. 6, the line "B-C" passes thru the point for cor. of secs. 1, 6, 7 and 12, on the W. bdy. of the Tp.

The triangulated measurement of "B-C" determined from the Base "A-B" is 82.04 chs. S. 89° 59' W.

The theoretical length of line from "B" to point for cor. of secs. 1, 6, 7 and 12 is 79.09 chs. S. 89° 59' W.

The position of point "C" is therefore 82.04 chs. - 79.09 chs. = 2.95 chs. S. 89° 59' W.

The vertical angle from the $\frac{1}{4}$ sec. cor. of secs. 1 and 6 to point "C" is + 28°; therefore, point "C" is 1400 ft. above said $\frac{1}{4}$ sec. cor.

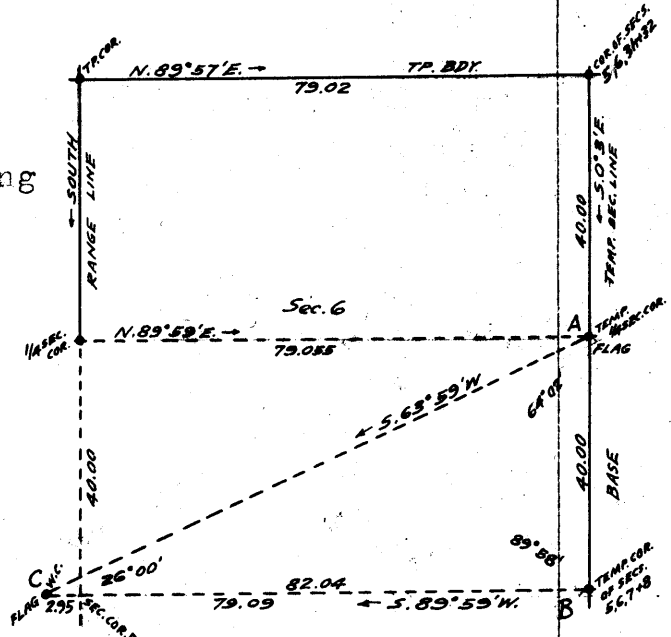
42.00 (Approx.) Gulch, course NE: near head.

54.00 (Approx.) Foot of cliffs, brs. NW. and S. 10° E.

80.00 Ascend over NE. face of cliffs to Point for cor. of secs. 1, 6, 7 and 12 on face of cliff, where it is inaccessible.

No point on range line within prescribed limits for witness cor. is available; therefore, at a point 2.95 chs. S. 89° 59' W. from sec. cor. point,

Set an iron post, 3 ft. long, 2 ins. in diam., 5 ins. in the



A Survey of West boundary of Township 30 North, Range 11 West.

Chains.

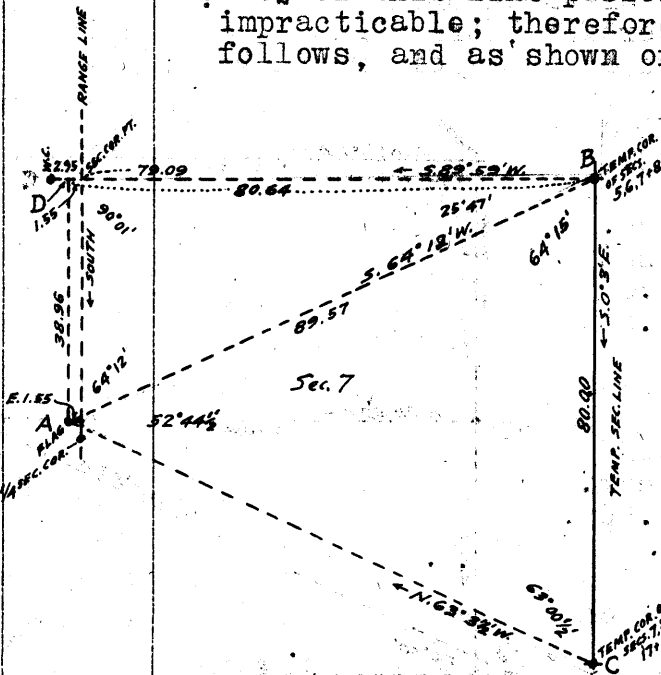
ground to bed rock, deposit a stone, marked with a cross (x) at base of post, and raise a mound of stone around post for witness cor. to cor. of secs. 1, 6, 7 and 12, marked on brass cap,

T30N
R12W | R11W
S 1 | S 6 WC
S12 | S. 7
1922

No bearing trees available.
Land, mountainous.
Soil, rocky, 4th rate.
Timber, cedar and pinyon.
Undergrowth, black brush, sagebrush, greasewood and cactus.

From true point for cor. of secs. 1, 6, 7 and 12, South, on true line, bet. secs. 7 and 12. Over mountainous land, thru scattering timber and dense undergrowth.

The N. 1/4 of this line passes over cliffs, and chaining is impracticable; therefore, triangulate as described as follows, and as shown on the diagram hereon:



Set flag at point indicated on diagram at "A."
From temp. cor. of secs. 5, 6, 7 and 8 set at 80.00 chs., S. 0° 3' E. from cor. of secs. 5, 6, 31 and 32 on N. bdy. of Tp., as hereinbefore described, and indicated on diagram at "B," the flag "A" brs. S. 64° 12' W.
From "B" survey temp. line S. 0° 3' E., 80.00 chs., and set temp. cor. of secs. 7, 8, 17 and 18, indicated on diagram at "C."
From "C" the flag "A" brs. N. 63° 32' W.
By solution of triangle "A-B-C" the line "A-B" is 89.57 chs. S. 64° 12' W.

A point due North of "A", and in alignment bet. "B" and the W.C. to cor. of secs. 1, 6, 7 and 12 is indicated on diagram at "D."

By solution of triangle "A-B-D" the line "B-D" is 80.64 chs. S. 89° 59' W., and the line "A-D" is 38.96 chs. North. The theoretical length of line from "B" to W. bdy. of Tp., as determined by previous triangulation, hereinbefore described is 79.09 chs.; therefore, line "A-D" is 80.64 chs. - 79.09 chs. = 1.55 chs. W. of Tp. bdy.

From triangulation point "A" chain measurement East, 1.55 chs. to point on Tp. bdy. at

38.96

Thence, South, on Tp. bdy., bet. secs. 7 and 12, continuing measurement from point for cor. of secs. 1, 6, 7 and 12.

40.00

Descend 18 ft., over SE. slope, to Set an iron post, 3 ft. long, 1 in. in diam., on surface rock, supported in a mound of stone, for 1/4 sec. cor., marked on brass cap,

S12 | S. 7

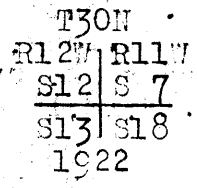
1922

No bearing trees available.
Raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
Descend 400 ft., over steep broken SE. slope, to

Survey of West boundary of Township 30 North, Range 11 West. 51

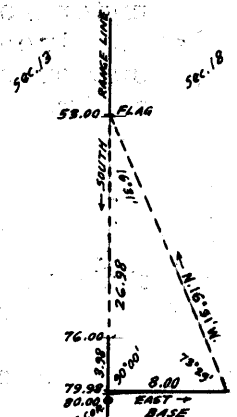
Chains.

- 62.40 Bottom of gulch, 30 lks. wide, course SE.
- 72.10 Descend 150 ft., over SE. slope, to
- 72.10 Bottom of gulch, 30 lks. wide, course SE.
- 79.10 Ascend 41 ft., over NE. slope.
- 79.10 Spur, slopes S. 80° E.
- 80.00 Descend 20 ft., over S. 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. 7, 12, 13 and 18, marked on brass cap,



No bearing trees available. Raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
 Land, mountainous.
 Soil, rocky, 4th rate.
 Timber, cedar and pinyon.
 Undergrowth, black brush, sagebrush, scrub oak and cactus.

- 3.75 South, on true line, bet. secs. 13 and 18.
- 10.00 Over mountainous land, thru. scattering timber and dense undergrowth.
- 10.00 Descend 80 ft., over S. slope.
- 16.00 Wash, 10 lks. wide, in gulch, course SE.
- 16.00 Ascend 93 ft., over NE. slope.
- 23.80 Spur, slopes SE.
- 23.80 Descend 65 ft., over S. slope.
- 27.00 Ascend 35 ft., over NE. slope.
- 27.00 Descend 15 ft., over S. slope.
- 31.00 Wash, 20 lks. wide, course E.
- 31.00 Ascend slightly over NE. slope, to West on right rim of Green Spring Canyon, brs. NE. and SW.
- 32.50 Descend 100 ft., over SE. slope.
- 32.50 Head of gulch, course E.
- 34.00 Ascend 100 ft., over NE. slope, to Same canyon rim, brs. SE. and NW. Thence over nearly level benchland.
- 40.00 Mark a cross (x) on surface rock at exact cor. point, and 7 W. of cross, for 1/4 sec. cor. of secs. 13 and 18.
- 53.00 No bearing trees available. Raise a mound of stone, 4 ft. base, 2 ft. high, W. of cor. This cor. is monumented in this manner for the reason that it is impracticable to transport an iron post to this point.
- 53.00 Continue over nearly level bench land, thru. scattering timber and dense undergrowth.
- 76.00 Top of cliff, 300 ft. high, brs. NE. and SW. facing SE., and forming W. or right rim of Green Spring Canyon. Enter mountainous land in 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 Tp. bdy. measure a Base, East, 8.00 chs.
 From E. end of Base, the flag brs. N. 16° 31' W.
 From W. end of Base, the vertical angle to flag is + 20 1/2°.
 Dist. on Tp. bdy. = 53.00 chs. South.
 Dist. triangulated = 26.98 chs. South.
 Total distance = 79.98 chs. South.
 Dist. by return measurement = 3.98 chs. North.
 76.00 chs. South.
- 76.00 Foot of cliffs, brs. NE. and SW. at NW. or right edge of



6 Survey of West bdy. of Township 30 North, Range 11 West.

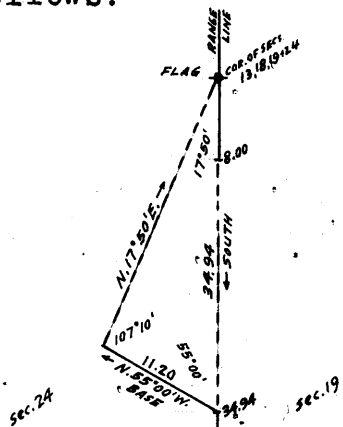
Chains.

- 78.00 wash in bottom of Green Spring Canyon. Thence across wash.
Center of wash, about 3.00 chs.wide, course SW. about 675 ft. below 53.00 ch.station.
- 79.00 SE.or left edge of same wash, brs.NE and SW. Leave wash. Enter rolling land near W. foot of cliffs.at junction of the bottom of Green Spring and Horse Spring Canyons. Ascend gradually over NW. slope to sec.cor.
- 79.98 Triangulation point. Continue chaining.
- 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.13,18,19 and 24, marked on brass cap,

T30N
R12W | R11W
S13 | S18
S24 | S19
1922

No bearing trees available. Raise a mound of stone, 3 ft. base, 2 ft.high, W.of cor.
Land, mountainous and rolling.
Soil, rocky, 4th rate.
Timber, cedar and pinyon.
Undergrowth, sagebrush and scrub oak.

- 8.00 South, on true line, bet.secs.19 and 24.
Over rolling land in bottom of canyon, thru.scattering timber and undergrowth.
Descend gradually over SW.slope, to
Center of Horse Spring Wash, 2.00 chs.wide in bottom of canyon of same name, course W to junction with bottom of Green Spring Canyon about 10 chs.W. Leave rolling, and enter mountainous land. Precipitous ascent of about 675 ft., over NE.slope prevents chaining beyond this point; therefore, triangulate as described as follows:



Set flag on the cor.of secs.13, 18, 19 and 24.
From a point ahead on Tp.bdy.at S.or left rim of canyon, measure a Base N.55°00'W., 11.20 chs.
From NW.end of Base, the flag brs. N.17°50'E.
From SE.end of Base, the vertical angle to flag is - 17°.
Distance triangulated = 34.94 chs. South.

- 34.94 Triangulation point at South or left rim of Horse Spring Canyon, brs.NW. and SE. Leave canyon. Continue line and measurement by chaining.
Enter nearly level land, dense timber and scattering undergrowth.
- 40.00 Set an iron post, 3 ft.long, 1 in. in diam., on surface rock, supported in a mound of stone, for 1/4 sec.cor., marked on brass cap,

S24 | S19

1922

from which,
A pinyon, 8 ins. in diam., brs. N.86° E., 73 lks. dist., marked 1/4 S 19 BT.
A cedar, 14 ins. in diam., brs. N.76° W., 75 lks. dist., marked 1/4 S 24 BT.

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

Survey of West boundary of Township 30 North, Range 11 West. 7

Chains.

68.00 West or left rim of gulch, brs. NE. and SW. Leave nearly level, and enter mountainous land in gulch.
 Ascend over steep E. slope, to
 80.00 True point for cor. of secs. 19, 24, 25 and 30 falls on steep sliding E. slope where cor. cannot be securely monumented. A witness cor. cannot be established on Tp. bdy. within the prescribed distance. Therefore, at a point on W. rim of gulch, 2.50 chs. W. of true cor. point, and 85 ft. above same, set an iron post, 3 ft. long, 2 ins. in diam., on surface rock, supported in a mound of stone for witness cor. to the cor. of secs. 19, 24, 25 and 30, marked on brass cap,

T30N
 R12W | R11W
 S24 | S19 WC
 S25 | S30
 1922

from which,

- A pinyon, 8 ins. in diam., brs. N. 13° E., 20 lks. dist., marked T30N R11W S19 WC BT.
- A pinyon, 10 ins. in diam., brs. S. 8° E., 91 lks. dist., marked T30N R11W S30 WC BT.
- A cedar, 8 ins. in diam., brs. S. 35° W., 120 lks. dist., marked T30N R12W S25 WC BT.
- A cedar, 20 ins. in diam., brs. N. 78° W., 37 lks. dist., marked T30N R12W S24 WC BT.

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

From true point for cor. of secs. 19, 24, 25 and 30, South, on true line, bet. secs. 25 and 30. Over mountainous land, in gulch, thru. dense timber and undergrowth.

It is impracticable to chain measurement S. from the sec. cor. point owing to precipitous slope; therefore, measure by offset, as described as follows:

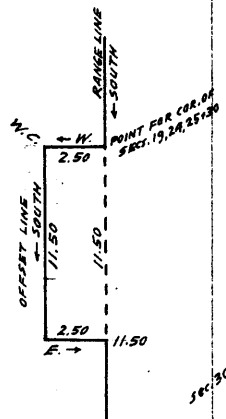
From sec. cor. point,
 West, 2.50 chs. to W.C. to sec. cor.

Thence,
 South, 11.50 chs. on offset line in sec. 25 parallel to and 2.50 chs. W. of Tp. bdy., along rim of gulch, bearing N. and S. to offset point.

Thence,
 East, 2.50 chs. returning to point on Tp. bdy. 11.50 chs. S. from true point for sec. cor.

Topography on Tp. bdy. as follows:

- 0.50 (Approx.) Wash, 20 lks. wide, course E. Joins bottom of gulch, course N. at about 1.00 ch. E.
- 10.00 Ascend about 120 ft. over steep E. slope, to (Approx.) Bottom of gulch at waterfall in same 60 ft. high. Course of gulch, N. 2° E. from S. 5° E.
- 11.50 Ascend 55 ft., over E. slope. Offset point. Continue measurement on Tp. bdy.
- 15.00 Wash, 15 lks. wide, course NE.
- 40.00 Ascend 500 ft., over NE. and N. slopes, to Spur, slopes NE. 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,



S25 | S30
 1922

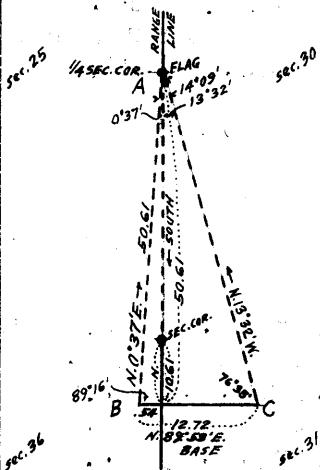
from which,

8 Survey of West boundary of Township 30 North, Range 11 West.

Chains.

- .A pinyon, 6 ins. in diam., brs. N. 80° E., 36 lks. dist., marked $\frac{1}{4}$ S 30 BT.
- A pinyon, 6 ins. in diam., brs. S. 27° W., 26 lks. dist., marked $\frac{1}{4}$ S 25 BT.

Beyond this point, cliffs and precipitous slopes prevent chaining; therefore, triangulate the remainder of this mile as described as follows, and as shown the diagram hereon:



Set high flag on this $\frac{1}{4}$ sec. cor., indicated on diagram at "A."
 From a point "B" at rim of bench, measure a Base N. 89° 53' E., 12.72 chs. along rim to point "C."
 From "C" the flag "A" brs. N. 13° 32' W.
 From "B" the flag "A" brs. N. 0° 37' E.
 Vertical angle from "B" to "A" is -22 $\frac{1}{2}$ °.
 Triangulated measurement of "A-B" = 50.61 chs. S. 0° 37' W.
 Latitude of "A-B" = 50.61 chs. S.
 Departure of "A-B" = 0.54 chs. W.

Therefore, from point "B" chain measurement East 0.54 chs.; thence North, 10.61 chs. to point for cor. of secs. 25, 30, 31 and 36.

70.00 (Approx.) Bottom of gulch, course NE. about 200ft. above $\frac{1}{4}$ sec. cor.

80.00 Ascend about 580 ft., over precipitous N. slope, to Set an iron post, 3 ft. long, 2 ins. in diam., 18 ins. in the ground to bed rock, deposit a stone, marked with a cross (x) at base of post, and raise a mound of stone around post, for cor. of secs. 25, 30, 31 and 36, marked on brass cap,

T30N.
 R12W | R11W
 S25 | S30
 S36 | S31
 1922

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

South, on true line, bet. secs. 31 and 36.
 Over mountainous land, thru scattering timber and undergrowth.

10.61 Ascend 585 ft., over steep N. slope, to Top of steep ascent, brs. E. and W. Leave mountainous and enter nearly level bench land, dense timber and scattering undergrowth.

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

$\frac{1}{4}$
 S36 | S31
 1922

- from which,
- A cedar, 14 ins. in diam., brs. N. 57 $\frac{1}{4}$ ° E., 28 lks. dist., marked $\frac{1}{4}$ S 31 BT.
- A cedar, 14 ins. in diam., brs. W. 113 lks. dist., marked $\frac{1}{4}$ S 36 BT.

Continue over nearly level land.

Survey of West boundary of Township 30 North, Range 11 West. 9

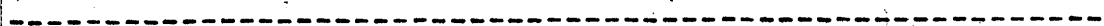
Chains.

- 54.00 . Enter rolling land,
Descend 40 ft., over S. slope.
- 56.89 Wash, 20 lks. wide, course SW.
- 80.00 . Ascend 125 ft., over NW. slope, to
Set an iron post, 3 ft. long, 3 ins. in diam., on surface
rock, supported in a mound of stone, for cor. of Ts. 29
and 30 N., Rs. 11 and 12 W., marked on brass cap,

T30N
R12W R11W
S36 S31
S 1 S 6
T29N
1922

- .from which,
A cedar, 18 ins. in diam., brs. N. 45 $\frac{3}{4}$ ° E., 50 lks.
dist., marked T30N R11W S31 BT.
- A cedar, 14 ins. in diam., brs. S. 7° E., 39 lks.
dist., marked T29N R11W S6 BT.
- A pinyon, 12 ins. in diam., brs. S. 35 $\frac{1}{4}$ ° W., 104 lks.
dist., marked T29N R12W S1 BT.
- A cedar, 6 ins. in diam., brs. N. 45° W., 81 lks.
dist., marked T30N R12W S36 BT.

Land, mountainous, nearly level and rolling.
Soil, rocky, 3rd and 4th rate.
Timber, cedar and pinyon.
Undergrowth, sagebrush.



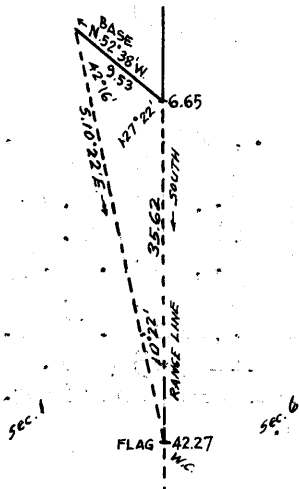
10. Survey of East boundary of Township 30 North, Range 11 West.

Chains.

From the cor. of Ts. 30 and 31, N., Rs. 10 and 11 W., described in Book "D" of this group,
South, on true line, bet. secs. 1 and 6.

Over mountainous land, thru scattering undergrowth.
Descend 35 ft., over S. slope, to
4.00 Head of gulch, course SW.

Ascend slightly over W. slope, to
6.65 NE. or left rim of canyon, brs. NW and SE. Beyond this point the line crosses a canyon, the precipitous slopes in which prevent chaining; therefore, triangulate across canyon, as described as follows:



Measure a Base N. 52° 38' W., 9.53 chs. along canyon rim.
Set flag ahead on Tp. bdy., the vertical angle to which is -10°.
From NW. end of Base, the flag brs. S. 10° 22' E.
From SE. end of base, the vertical angle to point on Tp. bdy. at bottom of this canyon is -32°.
Dist. on Tp. bdy. = 6.65 chs. S.
Dist. triangulated = 35.62 chs. S.
Total distance = 42.27 chs. S.

23.00 (Approx.) Wash, in bottom of canyon, about 675 ft. below 6.65 ch. station.

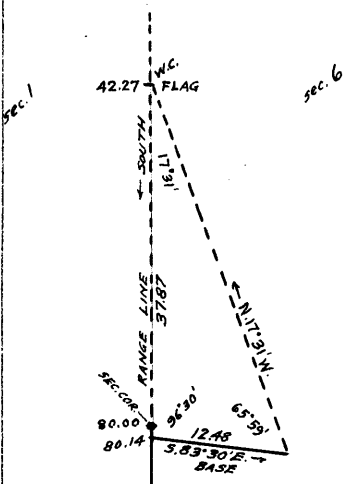
Ascend about 260 ft., over precipitous NE. slope.

40.00 True point for 1/4 sec. cor. is inaccessible.

42.27 Triangulation point at top of sharp rocky spur, sloping E. 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 witness cor. to 1/4 sec. cor., marked on brass cap,

W C
1/4
S 1 | S 6
1923

No bearing trees available.
Precipitous slopes and cliffs prevent chaining of remainder of this mile; therefore, triangulate as described as follows:



Set flag at this point.
From a point ahead on Tp. bdy., measure a Base S. 83° 30' E., 12.48 chs.
From SE. end of Base the flag brs. N. 17° 31' W.
From NW. end of Base, the vertical angle to flag is + 11 1/4°.
Dist. on Tp. bdy. = 42.27 chs. South.
Dist. triangulated = 37.87 chs. South.
Total distance = 80.14 chs. South.
Dist. by return measurement = 0.14 chs. North.

50.00 (Approx.) Wash in bottom of canyon, course E. about 600 ft. below W.C.

Ascend about 300 ft., over N. slope.

60.00 (Approx.) Sharp spur, slopes E.

Descend about 500 ft., over S. slope.

70.00 (Approx.) Wash, in bottom of canyon, course E.

Ascend about 300 ft., over N. slope, to

Survey of East boundary of Township 30 North, Range 11 West. 11
Chains.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 6 ins. in the ground to bed rock, deposit a stone, marked with a cross (x) at base of post, and raise a mound of stone around post, for cor. of secs. 1, 6, 7 and 12, marked on brass cap,

T30N
R11W | R10W
S 1 | S 6

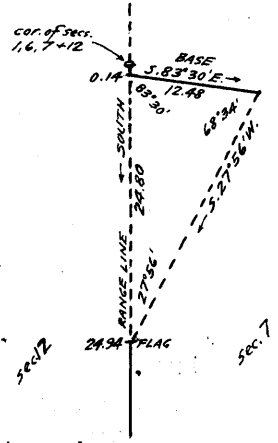
S12 | S 7
1923

No bearing trees available.
Land, mountainous.
Soil, rocky, 4th rate.
Timber, none.
Undergrowth, black brush.

South, on true line, bet. secs. 7 and 12.
Over mountainous land in canyon, thru. scattering timber and undergrowth.

0.14 Triangulation point of the triangulation hereinbefore described in notes of Tp. bdy., bet. secs. 1 and 6. Beyond this point, precipitous ascent over cliffs prevents chaining; therefore, triangulate as described as follows:

Set flag ahead on Tp. bdy. at S. or right rim of canyon, the vertical angle to which is + 24°. Use same Base that was used for triangulation of part of the Tp. bdy., bet. secs. 1 and 6, as hereinbefore described (S. 83° 30' E., 12.48 chs.) From SE. end of Base, the flag brs. S. 27° 56' W.



Dist. on Tp. bdy. = 0.14 chs. South.
Dist. triangulated = 24.80 chs. South.
Total distance = 24.94 chs. South.

24.94 Triangulation point at S. or right rim of canyon, brs. NW. and E., 735 ft. above cor. of secs. 1, 6, 7 and 12. Leave canyon. Continue line and measurement by chaining. Ascend 110 ft., over NE. slope, to

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

1/4
S12 | S 7
1923

from which,
A pinyon, 8 ins. in diam., brs. S. 77 1/2° E., 60 lks. dist., marked 1/4 S 7 BT.
A pinyon, 12 ins. in diam., brs. S. 82 1/2° W., 142 lks. dist., marked 1/4 S 12 BT.

41.00 Ascend slightly over NE. slope, to Rocky wash, 20 lks. wide, course NE.
Ascend 310 ft., over NE. slope.

64.75 Spur, slopes E.

80.00 Descend 270 ft. over S. and SE. slopes, to

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. 7, 12, 13 and 18, marked on brass cap,

T30N
R11W | R10W
S12 | S 7

S13 | S18
1923

BOOK 3644

12 Survey of East boundary of Township 30 North Range 11 West.

Chains.

from which,

A cedar, 6 ins. in diam., brs. N. 33° E., 217 lks. dist., marked T30N R10W S7 BT.

A pinyon, 16 ins. in diam., brs. S. 77° E., 105 lks. dist., marked T30N R10W S18 BT.

A pinyon, 16 ins. in diam., brs. N. 71½° W., 138 lks. dist., marked T30N R.11W S12 BT.

No other bearing tree available.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, cedar and pinyon.

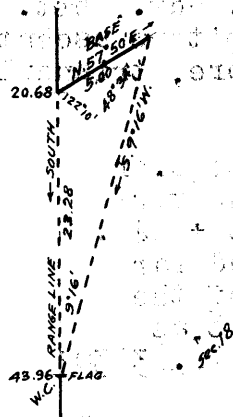
Undergrowth, black brush and sagebrush.

South, on true line, bet. secs. 13 and 18.

Over nearly level land, thru. dense timber and scattering undergrowth, on bench, bearing NE. and SW.

Descend 25 ft., over SE. slope, to

20.68 Top of perpendicular cliff about 200ft. high, bearing NE. and SW., facing SE., and forming left rim of a canyon, Chaining on Tp. bdy. across canyon being impracticable, triangulate as described as follows:



Measure a Base N. 57° 50' E., 5.00 chs. along left rim of canyon.

Set flag ahead on Tp. bdy. at right rim of same canyon, the vertical angle to which is 0°.

From NE. end of Base the flag brs. S. 9° 16' W.

From SW. end of Base, the vertical angle to point on Tp. bdy, in bottom of canyon is 38°.

Dist. on Tp. bdy. = 20.68 chs. South.

Dist. triangulated = 23.28 chs. South.

Total distance, = 43.96 chs. South.

32.00 (Approx.) Wash, in bottom of canyon, course NE., about 560 ft. below 20.68 ch. station.

Ascend about 560 ft. to right rim.

40.00 True point for ¼ sec. cor. on face of cliff, where it is inaccessible.

43.96 Triangulation point at right rim of canyon, bearing SE. and SW.

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 witness cor. to the ¼ sec. cor., marked on brass cap,

W C

¼
S13 S18

1923

from which,

A pinyon, 6 ins. in diam., brs. N. 39½° E., 119 lks. dist., marked WC ¼ S 18 BT.

A pinyon, 6 ins. in diam., brs. S. 14½° W., 70 lks. dist., marked WC ¼ S 13 BT.

Continue line and measurement by chaining. Leave mountainous, and enter nearly level land on bench, near rim of canyon, E. of line.

Ascend slightly over E. slope, to

50.70 Draw, 20 lks. wide, course E. About 100 lks. E. of this point, rim of canyon, brs. N. and SE. Enter mountainous land.

Ascend 190 ft., over NW. slope.

65.60 Spur, slopes NE.

Ascend 120 ft., over E. slope, to

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 18 ins. in

Survey of East boundary of Township 30 North, Range 11 West. 13

Chains.

the ground to bed rock, deposit a stone, marked with a cross (x) at base of post, and raise a mound of stone around post, for cor. of secs. 13, 18, 19 and 24, marked on brass cap,

T30N
R11W R10W
S13 | S18
S24 | S19
1923

from which,

- A pinyon, 14 ins. in diam., brs. N. 81 $\frac{1}{2}$ ° E., 71 lks. dist., marked T30N R10W S18 BT.
- A pinyon, 4 ins. in diam., brs. S. 21 $\frac{1}{2}$ ° E., 82 lks. dist., marked BT.
- A pinyon, 8 ins. in diam., brs. S. 19 $\frac{1}{4}$ ° W., 98 lks. dist., marked T30N R11W S24 BT.

No other bearing trees available.
Land, mountainous and nearly level
Soil, rocky, 4th rate.
Timber, cedar and pinyon.
Undergrowth, black brush.

South, on true line, bet. secs. 19 and 24.
Over mountainous land, thru. scattering timber and dense undergrowth.

- 4.70 Ascend 50 ft., over E. slope, to Wash, 20 lks. wide, course NE.
- 20.00 Ascend 200 ft., over NE. slope. Saddle in spur, sloping NE.
- 30.30 Descend 245 ft., over S. slope, to Head of wash, 30 lks. wide, course SE.
- 31.34 Ascend 15 ft., over NE. slope. Point of spur, slopes E.
- 40.00 Descend 110 ft., over SE. 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,

±
S24 | S19
1923

from which,

- A pinyon, 14 ins. in diam., brs. S. 57 $\frac{1}{2}$ ° E., 42 lks. dist., marked $\frac{1}{4}$ S 19 BT.
- A pinyon, 6 ins. in diam., brs. N. 83 $\frac{1}{2}$ ° W., 79 lks. dist., marked $\frac{1}{4}$ S 24 BT.
- 58.64 Descend 135 ft., over broken E, and SE. slopes, to Wash, 30 lks. wide, 12 ft. deep, course SE.
- 73.24 Descend 95 ft., over SE. slope, to Wash, 30 lks. wide, course SW.
- 80.00 Descend 56 ft., over SW. slope, to Set an iron post 3 ft. long, 2 ins. in diam., 18 ins. in the ground to bed rock; supported in a mound of stone, for cor. of secs. 19, 24, 25 and 30, marked on brass cap,

T30N
R11W R10W
S24 | S19
S25 | S30
1923

from which,

- A pinyon, 12 ins. in diam., brs. N. 66 $\frac{1}{2}$ ° E., 112 lks. dist., marked T30N R10W S19 BT.
- A cedar, 10 ins. in diam., brs. S. 39° E., 12 lks. dist., marked T30N R10W S30 BT.
- A pinyon, 6 ins. in diam., brs. S. 49 $\frac{1}{2}$ ° W., 105 lks. dist., marked T30N R11W S25 BT.

BOOK 3644

14 Survey of East bdy. of Township 30 North, Range 11 West.

Chains.

A cedar, 10 ins. in diam., brs. N. 37° W., 51 lks. dist., marked T30N R11W S24 BT.

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

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

24.00 Descend 30 ft., over SW. slope, to left rim of canyon, brs. SE. and NW. Enter mountainous land and scattering timber.

40.00 Descend 360 ft., over precipitous S. slope, to set an iron post, 3 ft. long, 1 in. in diam., on surface rock, deposit a stone marked with a cross (x) at base of post, and raise a mound of stone around post, for 1/4 sec. cor., marked on brass cap,

4
S25 | S30
1923

No bearing trees available.
Descend 370 ft., over steep S. slope, to Rocky wash, 30 lks. wide, course SE. in bottom of canyon. Ascend 70 ft., over NE. slope.

58.55 64.80 Point of spur, slopes E.
Descend 40 ft., over S. slope.

69.05 Wash, 20 lks. wide, course E.
Ascend 420 ft., over steep NE. 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. 25, 30, 31 and 36, marked on brass cap,

T30N
R11W | R10W
S25 | S30
S36 | S31
1923

No bearing trees available.
Land, N. 24 chs., nearly level; remainder, mountainous.
Soil, rocky, 4th rate.
Timber, cedar and pinyon.
Undergrowth, black brush, cactus and catclaw.

South, on true line, bet. secs. 31 and 36.
Over mountainous land, thru. scattering timber and undergrowth.

1.00 Ascend 17 ft., over NE. slope, to right rim of canyon, brs. E. and W. Thence across flat topped spur, sloping E.

5.20 Left rim of canyon, brs. E. and W. Enter canyon.
Descend 530 ft., over steep S. slope, to

23.44 Wash, 50 lks. wide, course SE.
Descend 176 ft., over SE. slope, to

31.14 Wash, 50 lks. wide, course NE. in bottom of canyon.
Ascend 100 ft., over NW. 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 1/4 sec. cor., marked on brass cap,

4
S36 | S31
1923

Survey of East bdy. of Township 30 North, Range 11 West. 15

Chains.

No bearing trees available. Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

62.80 Ascend 775 ft., over steep NW. slope, to Right rim of canyon, brs. E. and W. Leave canyon.

Ascend gradually over NW. and W. 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 Ts. 29 and 30 N., Rs. 10 and 11 W., marked on brass cap,

T30N
R11W R10W
S36 S31
S 1 S 6
T29N
1923

from which,

A cedar, 5 ins. in diam., brs. N. 44° E., 52 lks.
dist., marked T30N R10W S31 BT.

A pinyon, 8 ins. in diam., brs. S. 28° E., 45 lks.
dist., marked T29N R10W S6 BT.

A pinyon, 8 ins. in diam., brs. S. 24° W., 112 lks.
dist., marked T29N R11W S1 BT.

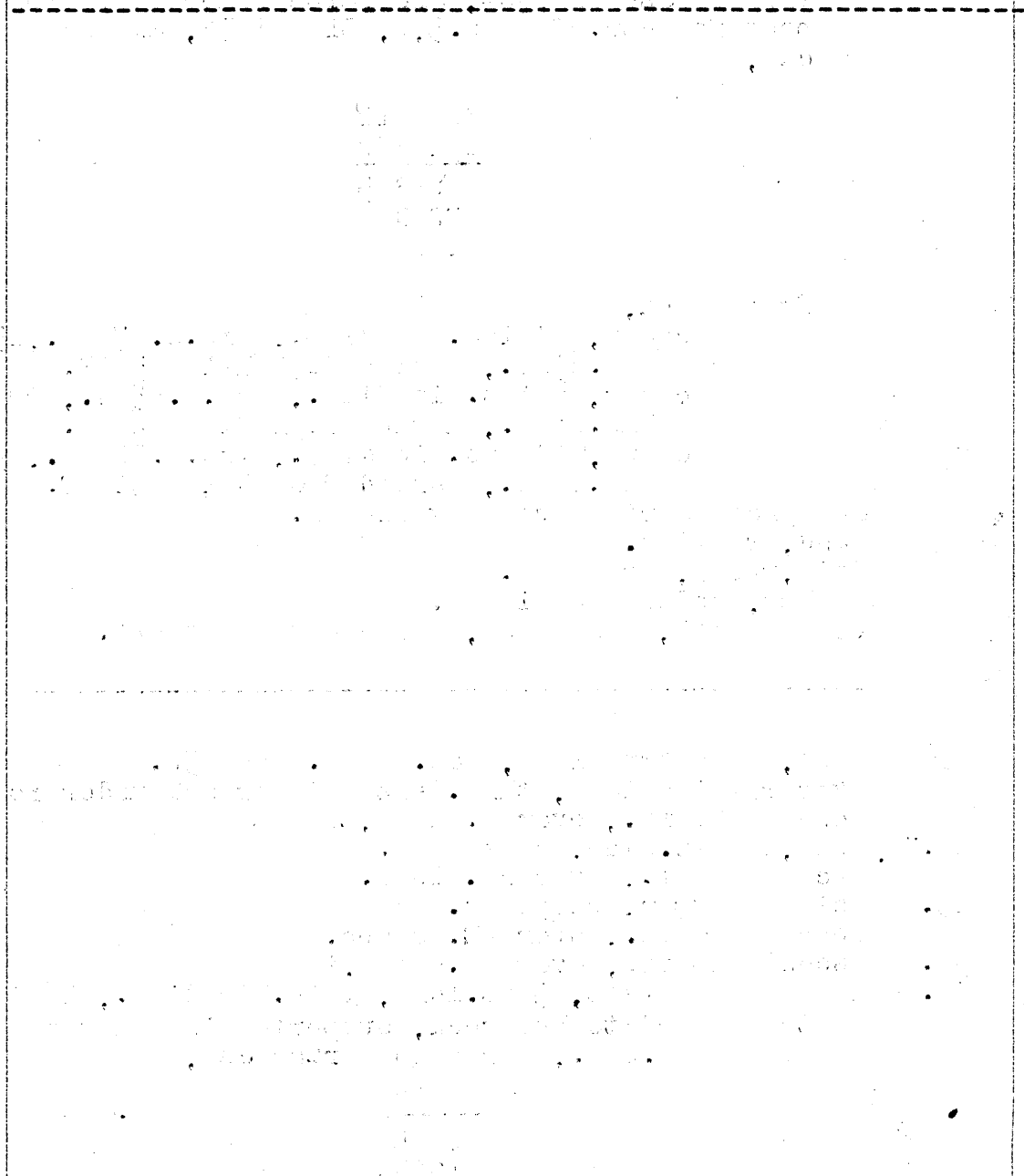
A pinyon, 16 ins. in diam., brs. N. 79½° W., 88 lks.
dist., marked T30N R11W S36 BT.

Land, mountainous:

Soil, rocky; 4th rate.

Timber, cedar and pinyon:

Undergrowth, black brush.



BOOK 3644

16 Survey of South bdy. of Township 30 North, Range 11 West.

Chains.

From the cor. of Ts. 29 and 30 N., Rs. 10 and 11 W., hereinbefore described,
West, on a random line, setting temp. cors. at intervals of 40.00 chs., until at 479.16 chs., intersect the cor. of Ts. 29 and 30 N., Rs. 11 and 12 W., hereinbefore described,

Thence,
East, on a true line, bet. secs. 6 and 31.
Over rolling land, thru. dense timber and undergrowth.
Ascend gradually over NW. and N. slopes.
24.20 Descend 75 ft., over NE. slope, to
39.16 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,

$\frac{1}{4}$ S 31
S 6
1923

from which,

A cedar, 12 ins. in diam., brs. N. $37\frac{1}{2}^{\circ}$ E., 38
lks. dist., marked $\frac{1}{4}$ S 31 BT.
A pinyon, 6 ins. in diam., brs. S. $28\frac{3}{4}^{\circ}$ W., 47
lks. dist., marked $\frac{1}{4}$ S 6 BT.

79.16 Descend 165 ft., over NE. and E. slopes, to
Set an iron post, 3 ft. long, 2 ins. in diam., 6 ins. in the ground to bed rock, deposit a stone marked with a cross (x) at base of post, and raise a mound of stone around post for cor. of secs. 5, 6, 31 and 32, marked on brass cap,

T30N | R11W
S31 | S32
S 6 | S 5
T29N
1923

from which,

A cedar, 24 ins. in diam., brs. S. $17\frac{3}{4}^{\circ}$ E., 15
lks. dist., marked T29N R11W S5 BT.
A cedar, 8 ins. in diam., brs. S. 55° W., 20
lks. dist., marked T29N R11W S6 BT.
A cedar, 14 ins. in diam., brs. N. $21\frac{1}{2}^{\circ}$ W., 9
lks. dist., marked T30N R11W S31 BT.

No other bearing trees available.

Land, rolling.

Soil, rocky, 3rd rate.

Timber, cedar and pinyon.

Undergrowth, sagebrush, scrub oak and thorn.

East, on a true line, bet. secs. 5 and 32.
Over rolling land, thru. dense timber and undergrowth.
Descend 86 ft., over E. slope, to
10.40 Wash, 10 lks. wide, course NE.
Ascend 80 ft., over NW. slope.

15.00 Point of spur, slopes N.
Descend 90 ft., over NE. slope.

34.00 Ascend 15 ft., over NW. 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,

$\frac{1}{4}$ S 32
S 5
1923

Survey of South bdy. of Township 30 North, Range 11 West. 17

Chains.

from which,

A cedar, 8 ins. in diam., brs. N. 58 1/2° E., 113 lks. dist., marked 1/4 S 32 BT.

A cedar, 10 ins. in diam., brs. S. 44 3/4° E., 74 lks. dist., marked 1/4 S 5 BT.

Ascend 72 ft., over NW. slope.

60.00 Descend 20 ft., over E. slope.

65.08 Wash, 10 lks. wide, course NE.

Ascend 30 ft., over W. slope to sec. cor.

79.50 Trail, brs. N. to Dinner Pocket and SW. to Amos Spring.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in the ground for cor. of secs. 4, 5, 32 and 33, marked on brass cap,

T30N | R11W
S32 | S33
S 5 | S 4
T29N
1923

from which,

A cedar, 36 ins. in diam., brs. N. 37 1/2° E., 205 lks. dist., marked T30N R11W S33 BT.

A pinyon, 14 ins. in diam., brs. S. 40° E., 142 lks. dist., marked T29N R11W S4 BT.

A cedar, 26 ins. in diam., brs. S. 47 1/2° W., 154 lks. dist., marked T29N R11W S5 BT.

A cedar, 30 ins. in diam., brs. N. 32 1/2° W., 157 lks. dist., marked T30N R11W S32 BT.

Land, rolling.

Soil, rocky, 3rd rate.

Timber, cedar and pinyon.

Undergrowth, sagebrush, scrub oak and thorn.

East, on a true line, bet. secs. 4 and 33.

Over rolling land, thru dense timber and undergrowth.

Ascend 220 ft., over W. and SW. slopes, to

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

1/4 S 33
S 4
1923

from which,

A cedar, 14 ins. in diam., brs. N. 45° W., 4 lks. dist., marked 1/4 S 33 BT.

A cedar, 12 ins. in diam., brs. S. 32 1/2° W., 884 lks. dist., marked 1/4 S 4 BT.

Ascend 206 ft., over SW. slope, to

70.00 Spur, slopes S. from Blue Mountain, the top of which brs. N. 6 chs. dist.

Descend 20 ft., over SE. slope.

75.00 Ascend 30 ft., over SW. 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. 3, 4, 33 and 34, marked on brass cap,

T30N | R11W
S33 | S34
S 4 | S 3
T29N
1923

from which,

A pinyon, 10 ins. in diam., brs. N. 24 1/2° E., 45 lks. dist., marked T30N R11W S34 BT.

18 Survey of South boundary of Township 30 North, Range 11 West.

Chains.

A cedar, 15 ins. in diam., brs. S. 35° E., 183
lks. dist., marked T29N R11W S3 BT.
A cedar, 12 ins. in diam., brs. S. 31½° W., 88
lks. dist., marked T29N R11W S4 BT.
A pinyon, 8 ins. in diam., brs. N. 40° W., 79
lks. dist., marked T30N R11W S33 BT.

Land, rolling.

Soil, rocky, 3rd and 4th rate.

Timber, cedar and pinyon.

Undergrowth, sagebrush, cactus and black brush.

East, on a true line, bet. secs. 3 and 34.

Over rolling land, thru dense timber and undergrowth.

Descend 300 ft., over SE. 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 ¼ sec. cor., marked on brass cap,

¼ S 34
S 3
1923

from which,

A cedar, 24 ins. in diam., brs. N. 26° E., 57 lks.
dist., marked ¼ S 34 BT.

A cedar, 8 ins. in diam., brs. S. 5¾° W., 107 lks.
dist., marked ¼ S 3 BT.

Descend 100 ft. over E. slope to sec. cor.

54.60 Road, brs. SE. and NW.

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. 2, 3, 34 and 35, marked on brass cap,

T30N | R11W
S34 | S35
S 3 S 2
1923

from which,

A cedar, 10 ins. in diam., brs. N. 43½° E., 103
lks. dist., marked T30N R11W S35 BT.

A cedar, 10 ins. in diam., brs. S. 30½° E., 71
lks. dist., marked T29N R11W S2 BT.

A cedar, 10 ins. in diam., brs. S. 63¾° W., 86
lks. dist., marked T29N R11W S3 BT.

A cedar, 12 ins. in diam., brs. N. 40° W., 120
lks. dist., marked T30N R11W S34 BT.

Land, rolling.

Soil, rocky, 4th rate.

Timber, cedar and pinyon.

Undergrowth, scrub oak, manzanita, locust and sagebrush.

East, on a true line, bet. secs. 2 and 35.

Over rolling land, thru dense timber and undergrowth.

Descend 40 ft., over E. slope.

6.50 Draw, 10 lks. wide, course SE.

Ascend 15 ft., over SW. slope, to

8.60 Rim, brs. N. and S. Leave rolling, and enter mountainous
land and scattering timber.

Descend 1440 ft., over precipitous E. slope, to

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in

Survey of South boundary of Township 30 North, Range 11 West. 19
Chains.

the ground to bed rock, deposit a stone, marked with a cross (x) at base of post, and raise a mound of stone around post, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$ S 35
S 2
1923

- 48.15 No bearing trees available.
Descend 215 ft., over steep E. slope, to Head of wash, 10 lks. wide, course SE.
- 65.60 Descend 146 ft., over S. slope, to Saddle in spur, sloping SE.
- 67.50 Descend 30 ft., over E. slope, to Head of wash, 10 lks. wide, course SE.
- 80.00 Descend 192 ft., over S. and SE. slopes, 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. 1, 2, 35 and 36, marked on brass cap,

T30N | R11W
S35 | S36
S 2 S 1
T29N
1923

from which,
A pinyon, 14 ins. in diam., brs. S. 26° E., 15 lks. dist., marked T29N R11W S1 BT.
A cedar, 5 ins. in diam., brs. N. 62° W., 29 lks. dist., marked T30N R11W S35 BT.
No other bearing trees available.

Land, mountainous.
Soil, rocky, 4th rate.
Timber, cedar.
Undergrowth, black brush and catclaw.

- 27.00 East, on a true line, bet. secs. 1 and 36. Over mountainous land, thru. scattering timber and undergrowth.
- 40.00 Descend 550 ft., over steep broken E. slope. Wash, 30 lks. wide, course NE. in bottom of canyon. Ascend 245 ft., over steep NW. slope, to Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground to bed rock, deposit a stone, marked with a cross (x) at base of post, and raise a mound of stone around post, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$ S 36
S 1
1923

- 49.00 No bearing trees available. Ascend 153 ft., over NW. slope. Spur, slopes N.
- 57.90 Descend 300 ft., over E. slope. Wash, 30 lks. wide, course N. in bottom of canyon.
- 72.85 Ascend 394 ft., over precipitous W. slope, to E. or right rim of canyon, brs. SE. and NW. Leave canyon.
- 80.00 Ascend 97 ft., over W. slope, to The cor. of T29 and 30 N., Rs. 10 and 11 W., hereinbefore described.
Land, mountainous.
Soil, rocky, 4th rate.
Timber, cedar.
Undergrowth, black brush and catclaw.

BOOK 3644

20 Survey of Township 30 North, Range 11 West.

Boundaries of Township 30 North, Range 11 West.
 Latitudes, departures, and closing errors.

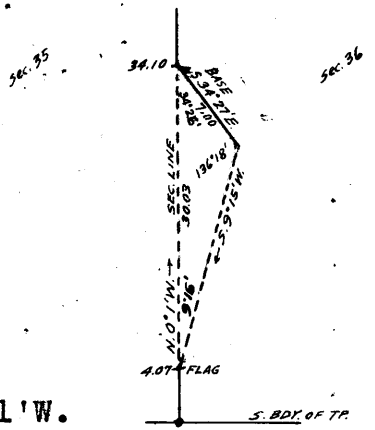
Line designated,	True course.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
South boundary.	West,	479.16				479.16
West boundary,	North,	480.00	480.00			
North boundary,	N.89°57'E.	479.02	.40		479.02	
East boundary,	South,	480.00		480.00		
Convergency,					.53	
<u>Totals.</u>			480.40	480.00	479.55	479.16
			480.00		479.16	
<u>Error in latitude.</u>			0.40			
<u>Error in departure.</u>					0.39	

Survey of Subdivision lines of Township 30 North, Range 11 West. 21

Chains.

From the cor. of secs. 1, 2, 35 and 36, on S. bdy. of Tp.,
hereinbefore described,
N.0°1'W., bet. secs. 35 and 36.
Over mountainous land in canyon, thru. scattering timber
and dense undergrowth.
Ascend 26 ft., over E. slope, to
4.07 Beyond this point, chaining is impracticable owing to
precipitous slopes; therefore, triangulate as described
as follows:

Set flag at this point.
From point ahead on sec. line
at N. rim of canyon, measure
a Base S. 34°27'E., 7.00 chs.
along rim.
From SE. end of Base, the flag
brs. S. 9°15'W.
From NW end of Base, the verti-
cal angle to flag is 0°.
Vertical angle from flag to
point on sec. line in bot-
tom of canyon is - 30°.
Dist. on sec. line = 4.07 chs. N.0°1'W.
Dist. triangulated = 30.03 chs. N.0°1'W.
Total distance = 34.10 chs. N.0°1'W.



19.00 (Approx.) Wash, course SE. in bottom of canyon, 570 ft. be-
low 4.07 ch. station.
Ascend 570 ft., over precipitous SW. slope, to
34.10 Triangulation point at N. or left rim of canyon, bearing
NW. and SE. Leave canyon.
Continue line and measurement by chaining. Enter nearly
level bench land.
Ascend slightly over SW. slope, to
40.00 Set an iron post, 3 ft. long, 1 in. in diam., on surface
rock, deposit a stone, marked with a cross (x) at base
of post, and raise a mound of stone around post, for
1/4 sec. cor., marked on brass cap,

1/4
S35 | S36
1922

No bearing trees available.
Continue over nearly level land.
Ascend slightly over SW. slope, to
43.00 Rim of gulch, brs. NE. and SW. Enter mountainous land.
Descend 170 ft., over NW. slope.
49.50 Wash, 30 lks. wide, course SW. in bottom of gulch.
Ascend 195 ft., over S. slope.
59.80 Rocky point projects E.
Descend 25 ft., over NE. slope.
64.30 Same wash, 30 lks. wide, course SE.
Ascend 235 ft., over SW. slope, to
80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 18 ins. in
the ground to bed rock, supported in a mound of stone,
for cor. of secs. 25, 26, 35 and 36, marked on brass cap,

T30N | R11W
S26 | S25
S35 | S36
1922

from which,
A pinyon, 18 ins. in diam., brs. N. 39° E., 85
lks. dist., marked T30N R11W S25 BT.
A dead pinyon, 12 ins. in diam., brs. S. 33 3/4° E., 40
lks. dist., marked BT.
A pinyon, 8 ins. in diam., brs. S. 12 1/2° W., 66
lks. dist., marked T30N R11W S35 BT.
A pinyon, 14 ins. in diam., brs. N. 2° W., 150 lks.
dist., marked T30N R11W S26 BT.

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22 Survey of Subdivision lines of Township 30 North Range 11 West.

Chains.

Land, mountainous and nearly level.
Soil, rocky, 4th rate.
Timber, cedar and pinyon.
Undergrowth, black brush.

-
- 40.00 East, on a random line, bet. secs. 25 and 36.
Set temp. $\frac{1}{4}$ sec. cor.
- 80.14 Fall 9 lks. N. of the cor. of secs. 25, 30, 31 and 36, on E. bdy. of Tp., hereinbefore described,
Thence,
N. $89^{\circ}56'$ W., on a true line, bet. secs. 25 and 36.
Over mountainous land, in canyon, near S. rim of same, thru. scattering timber and dense undergrowth.
- 14.00 Ascend 414 ft., over NE. slope, to S. or right rim of canyon, brs. SE. and NW. Leave canyon.
Ascend 252 ft., over E. and NE. slopes.
- 27.15 Spur, slopes SE.
Descend 193 ft., over W. slope.
- 39.15 Wash, 10 lks. wide, course S.
Ascend slightly over E. slope, to
- 40.07 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 $\frac{1}{4}$ sec. cor., marked on brass cap,
- $\frac{1}{4}$ S 25
S 36
1923
- from which,
A pinyon, 12 ins. in diam., brs. N. $58\frac{3}{4}^{\circ}$ E., 24 lks. dist., marked $\frac{1}{4}$ S 25 BT.
A pinyon, 12 ins. in diam., brs. S. $15\frac{1}{2}^{\circ}$ E., 89 lks. dist., marked $\frac{1}{4}$ S 36 BT.
- 58.40 Ascend 344 ft., over E. slope.
Spur, slopes S.
Descend 264 ft., over SW. slope.
- 70.00 Wash, 30 lks. wide, in gulch, course SW.
Ascend 135 ft., over SE. slope.
- 76.65 Spur, slopes S.
Descend 20 ft., over SW. slope, to
- 80.14 The cor. of secs. 25, 26, 35 and 36.
Land, mountainous.
Soil, rocky, 4th rate.
Timber, cedar and pinyon.
Undergrowth, black brush.

-
- N. $0^{\circ}1'$ W., bet. secs. 25 and 26.
Over mountainous land, thru. scattering timber and dense undergrowth.
- 16.50 Ascend 230 ft., over SW. slope, to Head of wash, 30 lks. wide, course SW.
Ascend 445 ft., over steep SW. slope.
- 27.65 Spur, slopes SE.
Ascend 165 ft., over E. slope, to
- 37.85 Descend 15 ft., over NE. slope, to
- 38.60 Wash, 20 lks. wide, course E. near head.
Descend 36 ft., over NE. 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,

$\frac{1}{4}$
S 26 | S 25
1923

from which,

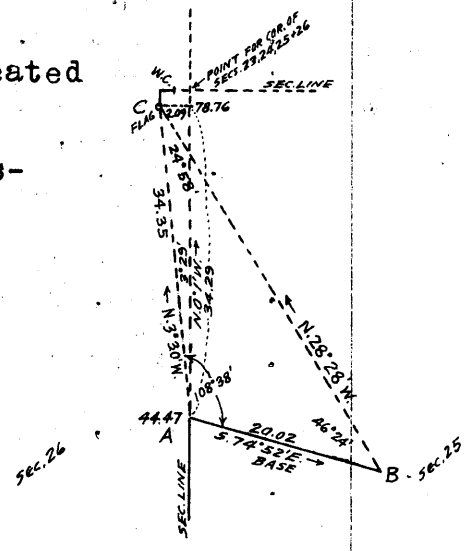
A pinyon, 12 ins. in diam., brs. N. 20° E., 80 lks. dist., marked $\frac{1}{4}$ S 25 BT.

Survey of Subdivision lines of Township 30 North, Range 11 West. 23

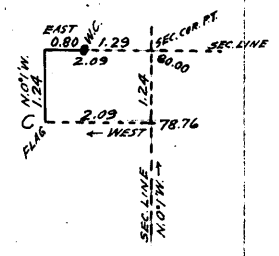
Chains.

44.47 A cedar, 14 ins. in diam., brs. N. 53° W., .97 lks. dist., marked $\frac{1}{2}$ S 26 BT.
 Descend 68 ft., over NE. slope, to
 Beyond this point, the sec. line passes over a series of cliffs, rendering chaining impracticable; therefore, triangulate as described as follows:

From 44.47 ch. station on sec. line indicated on diagram at "A," measure a Base S. 74° 52' E., 20.02 chs. to point "B." No point ahead on sec. line being accessible,
 Set a flag at top of cliffs W. of sec. line at point "C" which brs. N. 3° 30' W. from "A.", and N. 28° 28' W. from "B." The vertical angle from "A" to "C" is + 14°.
 Triangulated measurement of "A-C" = 34.35 chs.,
 Angle of departure of "A-C" from sec. line = 3° 29' W.; therefore, flag at "C" is 2.09 chs. W. of sec. line.
 Latitude of "A-C" is 34.29 chs. N.; therefore flag "C" is 2.09 chs. W. of 78.76 ch. station on sec. line.



From flag "C" chain measurement N. 0° 1' W., 1.24 chs. to a point 2.09 chs. W. of true point for sec. cor.



80.00 Thence, East, 0.80 chs. to point at top of cliff, 1.29 chs. W. of True point for cor. of secs. 23, 24, 25 and 26 on SE. face of cliff.

This sec. cor. point being inaccessible, establish witness cor. to cor. of said secs. at top of cliff, bearing NE. and SW. facing SE., at 1.29 chs. W. of said sec. cor. point, as described, as follows:

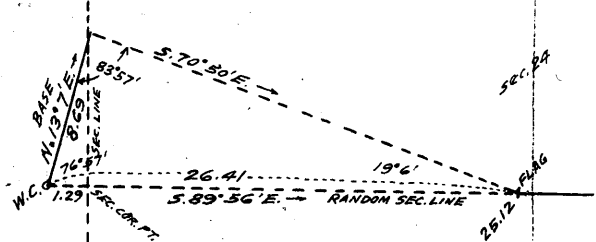
Set a malpais stone 16x12x6 ins., 12 ins. in the ground for witness cor. to cor. of secs. 23, 24, 25 and 26, marked with 2 notches on S. edge and 1 notch on E. edge, and W.C. on E. face; from which
 A cedar, 14 ins. in diam., brs. S. 68° W., 10 lks. dist., marked WC T30N R11W S26 BT.
 A pinyon, 10 ins. in diam., brs. N. 21 1/2° W., 130 lks. dist., marked WC T30N R11W S23 BT.

No other bearing trees available. Raise a mound of stone 2 ft. base, 1 1/2 ft. high, W. of cor.
 This W.C. is about 500 ft. above the 1/4 sec. cor. of secs. 25 and 26, and is monumented in the manner described, owing to the impracticability of transporting iron post to this point.

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

From true point for cor. of secs. 23, 24, 25 and 26, S. 89° 56' E., on random line, bet. secs. 24 and 25. Said sec. cor. point being inaccessible, obtain measurement therefrom by triangulation, as described as follows:

From W.C. to sec. cor., measure a Base N. 13° 7' E., 8.69 chs.
 Set flag ahead on random sec. line, the vertical angle to which is -25°.
 From NE. end of Base, the flag



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Chains.

- brs. S. 70° 50' E.
- Dist. triangulated from W.C. = 26.41 chs. S. 89° 56' E.
- Cor. point to W. C. = 1.29 chs. West.
- Dist. triangulated from cor. point = 25.12 chs. S. 89° 56' E.
- 25.12 Triangulation point. Continue line and measurement by chaining.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 79.92 Fall 9 lks. S. of the cor. of secs. 19, 24, 25 and 30, on E. bdy. of Tp., hereinbefore described.
- Thence,
West, on true line, bet. secs. 24 and 25.
Over gently rolling land, thru scattering timber and undergrowth.
- 9.90 Descend 35 ft., over SW. slope, to Wash, 30 lks. wide, course SW.
- 16.60 Descend 28 ft., over SW. slope, to Enter mountainous land.
- 20.13 Descend 100 ft., over W. slope, to Wash, 30 lks. wide, in bottom of gulch, course SW.
- 29.50 Ascend 360 ft., over SE. slope, to Point of spur, slopes SE.
- 39.00 Ascend gradually over S. slope, to Wash, 20 lks. wide, course SE.
- 39.96 Ascend slightly over SE. 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,

$\frac{1}{4}$ S 24
 S 25
 1922

from which,

- A cedar, 10 ins. in diam., brs. N. 25° W., 80 lks. dist., marked $\frac{1}{4}$ S 24 BT.
- A pinyon, 12 ins. in diam., brs. S. 84° E., 125 lks. dist., marked $\frac{1}{4}$ S 25 BT.

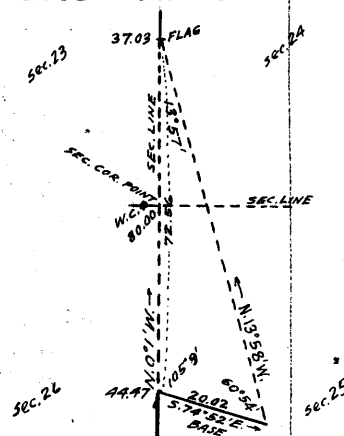
- 54.80 Ascend 425 ft., over SE. slope, to Triangulation point on spur, sloping SE. Discontinue chaining. Measurement of remainder of line by triangulation, as hereinbefore described.
- 67.00 Descend about 300 ft., over SW. slope. (Approx.) Bottom of canyon, course SW.
- 79.92 Ascend about 1000 ft. over cliffs to The true point for cor. of secs. 23, 24, 25 and 26 on SE. face of cliff. Witness cor. 1.29 chs. West.
- Land, gently rolling and mountainous.
- Soil, rocky, 4th rate.
- Timber, cedar and pinyon.
- Undergrowth, black brush,

From true point for cor. of secs. 23, 24, 25 and 26, N. 0° 1' W., bet. secs. 23 and 24. Over mountainous land, thru scattering timber and undergrowth. Chaining is impracticable owing to precipitous ascent over cliffs; therefore, triangulate as described as follows:

Use the same Base for this triangulation as that used in the triangulation of the N. 35.53 chs. of the line bet. secs. 25 and 26, as hereinbefore described.

This base was measured S. 74° 52' E., 20.02 chs. from 44.47 ch. station on line, bet. secs. 25 and 26.

Set flag ahead on sec. line at top of cliffs. From SE. end of Base, the flag brs. N. 13° 58' W.



Survey of Subdivision lines of Township 30 North Range 11 West. 25

chains.

From NW end of Base, the vertical angle to flag is +17°:
 Dist. on sec. line bet. secs. 25 and 26 = 44.47 chs. N. 0° 1' W.
 Distance triangulated = 72.56 chs. N. 0° 1' W.
 Total distance = 117.03 chs. N. 0° 1' W.
 Distance bet. secs. 25 and 26 = 80.00 chs. N. 0° 1' W.
 Distance bet. secs. 23 and 24 = 37.03 chs. N. 0° 1' W.

37.03 Triangulation point at top of cliffs, bearing NE. and SW., facing SE., about 1000 ft. above true point for cor. of secs. 23, 24, 25 and 26. Leave cliffs. Continue line and measurement by chaining. Enter dense timber and undergrowth.

40.00 Ascend 34 ft. over SW. 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 1/4 sec. cor., marked on brass cap,

S23 | S24
 1922

from which,
 A cedar, 14 ins. in diam., brs. S. 28° E., 52 lks. dist., marked 1/4 S 24 BT.
 A cedar, 10 ins. in diam., brs. S. 82° W., 38 lks. dist., marked 1/4 S 23 BT.

Enter rolling land.

50.00 Ascend 80 ft. over SW. slope. Top of slope from Price Peak, the top of which brs. E. about 15 chs. dist.

80.00 Descend 180 ft., over W. and NW. slopes, to Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in the ground for cor. of secs. 13, 14, 23 and 24, marked on brass cap,

T30N | R11W
 S14 | S13
 S23 | S24
 1922

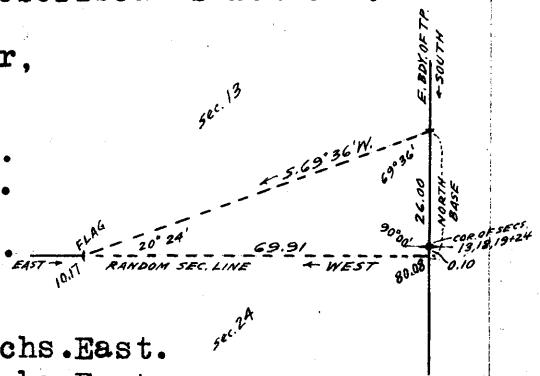
from which,
 A cedar, 8 ins. in diam., brs. N. 37° E., 16 lks. dist., marked T30N R11W S13 BT.
 A cedar, 14 ins. in diam., brs. S. 50 1/2° E., 50 lks. dist., marked T30N R11W S24 BT.
 A pinyon, 6 ins. in diam., brs. S. 27° W., 125 lks. dist., marked T30N R11W S23 BT.
 A cedar limb, 10 ins. in diam., brs. N. 27° W., 45 lks. dist., marked T30N R11W S14 BT.

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

10.17 East, on random line, bet. secs. 13 and 24. Top of cliffs, bearing NW. and SE. Beyond this point, chaining is impracticable owing to precipitous descent; therefore, triangulate, as described as follows:

Set flag at this point.
 From a point 10 lks. S. of the cor. of secs. 13, 18, 19 and 24 on E. bdy. of Tp., measure a Base North, 26.00 chs. along Tp. bdy.
 From N. end of Base, the flag brs. S. 69° 36' W.
 From S. end of Base, the flag brs. West with a vertical angle of + 21°.

Dist. on random sec. line = 10.17 chs. East.
 Dist. triangulated = 69.91 chs. East.
 Total length of random line = 80.08 chs. East.

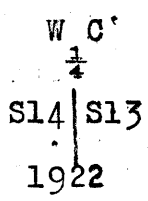


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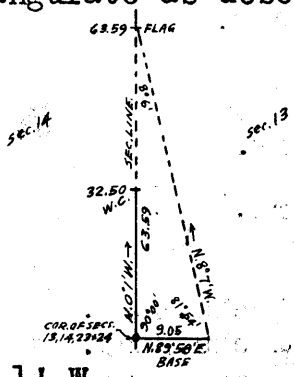
Chains.
 80.08 Fall 10 lks. S. of the cor. of secs. 13, 18, 19 and 24, herein-
 before described.
 Thence
 S. 89° 56' W., on true line, bet. secs. 13 and 24, chaining
 measurement to $\frac{1}{4}$ sec. cor.
 Over mountainous land, thru scattering timber and under-
 growth.
 Ascend 230 ft., over SE. slope.
 12.20 Spur, slopes NE.
 Descend 176 ft., over W. slope.
 22.04 Wash, 20 lks. wide, course N.
 Ascend 320 ft., over NE. slope, to
 40.04 Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in
 the ground to bed rock, deposit a stone marked with a
 cross (x) at base of post, and raise a mound of stone
 around post, for $\frac{1}{4}$ sec. cor., marked on brass cap,
 $\frac{1}{4}$ S 13
 S 24
 1923
 No bearing trees available. Discontinue chaining.
 Measurement to top of cliffs by triangulation, herein be-
 fore described.
 Ascend about 1395 ft., over precipitous E. slope, to
 69.91 Triangulation point at top of cliffs bearing SE. and NW.,
 facing E. Leave mountainous and enter rolling land,
 dense timber and undergrowth.
 Continue line and measurement by chaining.
 Descend 90 ft., over NW. slope, to
 80.08 The cor. of secs. 13, 14, 23 and 24.
 Land, mountainous and rolling.
 Soil, rocky, 4th rate.
 Timber, cedar and pinyon.
 Undergrowth, black brush.

N. 0° 1' W., bet. secs. 13 and 14.
 Over rolling land, thru dense timber and undergrowth.
 Descend 85 ft., over NW. slope, to
 32.50 Top of cliffs, bearing NW. and SE. facing NE. Beyond this
 point, the sec. line passes over faces of cliffs, and
 chaining is impracticable. This being the nearest
 accessible point on the sec. line,
 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 witness cor. to the $\frac{1}{4}$ sec. cor., marked on brass
 cap,



from which,
 A cedar, 10 ins. in diam., brs. S. 42° E., 15 lks.
 dist., marked WC $\frac{1}{4}$ S 13 BT.
 A cedar, 12 ins. in diam., brs. N. 71° W., 83 lks.
 dist., marked WC $\frac{1}{4}$ S 14 BT.
 Discontinue chaining. Enter mountainous land, across NE.
 and E. face of cliffs.

Triangulate as described as follows:
 Set flag ahead on sec. line, at
 top of cliffs.
 From cor. of secs., 13, 14, 23 and
 24, measure a Base N. 89° 59' E.,
 9.05 chs.
 From E. end of Base, the flag brs.
 N. 8° 7' W.
 From cor. of secs. 13, 14, 23 and 24,
 the vertical angle to flag is
 - 3°.
 Dist. triangulated = 63.59 chs. N.
 0° 1' W.



Survey of Subdivision lines of Township 30 North Range 11 West. 27

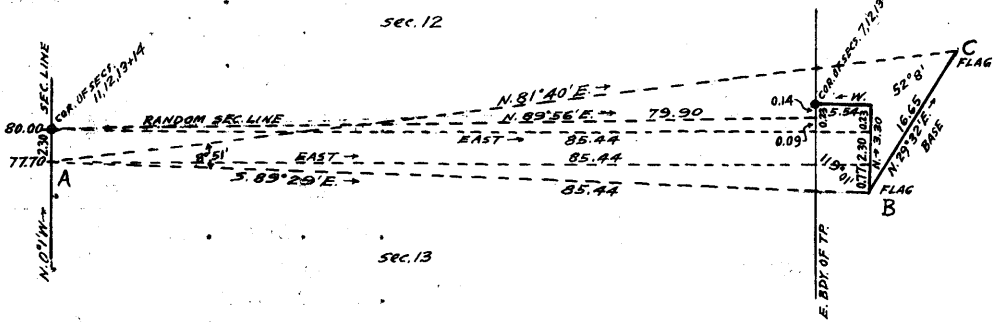
Chains.

- 40.00 True point for 1/4 sec. cor. falls on cliffs, where it is inaccessible, and cannot be monumented.
- 63.59 Triangulation point at top of cliffs, bearing N. 5° E. and S. 5° W., facing E., about 135 ft. below W.C. to 1/4 sec. cor. Continue line and measurement by chaining. Enter nearly level bench land, dense timber and undergrowth.
- 77.70 Top of steep slope, brs. SE. and NW. Continue chaining. Leave bench. Enter mountainous land, scattering timber and undergrowth.
- 80.00 Descend 140 ft., over steep NE. slope, to Set an iron post, 3 ft. long, 2 ins. in diam., 18 ins. in the ground to bed rock, deposit a stone, marked with a cross (x) at base of post, and raise a mound of stone around post for cor. of secs. 11, 12, 13 and 14, marked on brass cap,

T30N	R11W
S11	S12
S14	S13
1922	

No bearing trees available.
 Land, rolling and mountainous.
 Soil, rocky, 4th rate.
 Timber, cedar and pinyon.
 Undergrowth, black brush.

N. 89° 56' E., on random line, bet. secs. 12 and 13.
 Owing to cliffs and broken, precipitous slopes, chaining of the west half of this line is impracticable, and it is also impracticable to triangulate from the cor. of secs. 11, 12, 13 and 14; therefore, triangulate from a point on sec. line, bet. secs. 13 and 14, as described as follows, and as shown on the diagram hereon:



- Set a flag SE. of the cor. of secs. 7, 12, 13 and 18, on the E. bdy. of the Tp., indicated in diagram at "B," thence measure a Base N. 29° 32' E., 16.65 chs., and set another flag indicated on diagram at "C."
- Both flags are visible from the 77.70 ch. station on sec. line, bet. secs. 13 and 14 (2.30 chs. S. 0° 1' E. from cor. of secs. 11, 12, 13 and 14) indicated on diagram at "A."
- Bearing "A-B" = S. 89° 29' E. Bearing "A-C" = N. 81° 40' E. Vertical angle from "A" to "B" is - 18°.
- Triangulated measurement of "A-B" = 85.44 chs. S. 89° 29' E. Latitude of "A-B" = 0.77 chs. S. Departure of "A-B" = 85.44 chs. E.
- From flag "B" chain measurement North, 3.30 chs., thence West, 5.54 chs. to the cor. of secs. 7, 12, 13 and 18. The traverse between the sec. cors., triangulated and chained as described above gives a latitude of 0.23 chs. N. and 79.90 chs. E., corresponding to a true bearing of N. 89° 50' E., 79.90 chs.
- The latitude of the random line N. 89° 56' E., 79.90 chs. being 0.09 chs. N., said line extended would at Fall 14 lks. S. of the cor. of secs. 7, 12, 13 and 18, on the E. bdy. of the Tp., hereinbefore described.
- Thence, S. 89° 50' W., on true line, bet. secs. 12 and 13. Over nearly level land, thru scattering timber and undergrowth, chaining measurement to 1/4 sec. cor. Ascend slightly over SE. slope, to

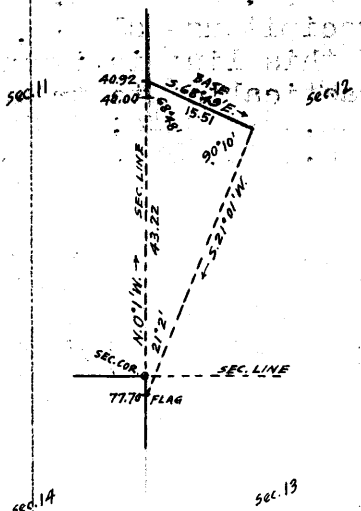
79.90

28. Survey of Subdivision lines of Township 30 North Range 11 West.

Chains.

- 5.00 Leave nearly level bench, and enter mountainous land. Ascend 90 ft., over SE. slope, to
- 10.30 Rim, brs. NE. and SW. Ascend 326 ft., over E. slope, to
- 39.95 Set a stone, 16x10x8 ins., 10 ins. in the ground, marked $\frac{1}{4}$ on N. face for $\frac{1}{4}$ sec. cor. No bearing trees available. Raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor. This cor. is monumented with a stone owing to difficulty of transporting iron post to this point. Discontinue chaining. Measurement of W. $\frac{1}{2}$ by triangulation, hereinbefore described. Ascend about 1225 ft., over precipitous E. slope, to
- 79.90 The cor. of secs. 11, 12, 13 and 14. Land, mountainous. Soil, rocky, 4th rate. Timber, cedar and pinyon. Undergrowth, black brush.

N.0° 1'W., bet. secs. 11 and 12. Over mountainous land, thru scattering timber and undergrowth. The S. half of this line passes over cliffs and precipitous slopes, which prevent chaining; therefore, triangulate as described as follows:



- Set flag at 77.70 ch. station on sec. line, bet. secs. 13 and 14, or 2.30 chs. S. 10° 1' E. from cor. of secs. 11, 12, 13 and 14.
- From a point ahead on sec. line, bet. secs. 11 and 12, measure a Base S. 68° 49' E., 15.51 chs.
- From SE. end of Base, the flag brs. S. 21° 01' W.
- From NW. end of Base, the vertical angle to flag is + 25°.
- Dist. triangulated = 43.22 chs. N. 0° 1' W.
- Dist. bet. secs. 13 and 14 = 2.30 chs. N. 0° 1' W.
- Dist. bet. secs. 11 and 12 = 40.92 chs. N. 0° 1' W.
- Dist. by return measurement = 0.92 chs. S. 0° 1' E.
- 40.00 chs. N. 0° 1' W.

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

$\frac{1}{4}$
 S11 | S12
 1923

- No bearing trees available. Raise a mound of stone, 4 ft. base, 3 ft. high, W. of cor. This cor. is about 1185 ft. below the cor. of secs. 11, 12, 13 and 14. Continue line and measurement by chaining.
- 40.92 Descend 370 ft., over NE. slope. Triangulation point. Continue chaining.
- 60.52 Wash, 30 lks. wide, course NE. Ascend 40 ft., over SE. slope.
- 65.86 Spur, slopes NE. Descend 260 ft., over N. slope.
- 77.70 Wash, 20 lks. wide, course NE. Ascend 10 ft., over E. 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. 1, 2, 11 and 12, marked on

Survey of Subdivision lines of Township 30 North Range 11 West. 20 Chains.

on brass cap,

T30N	R11W
S 2	S 1
S11	S12
1923	

No bearing trees available.
 Land, mountainous.
 Soil, rocky, 4th rate.
 Timber, cedar and pinyon.
 Undergrowth, black brush, cactus, catclaw and scrub oak.

40.00

N.89°50'E., on random line, bet. secs.1 and 12.
 Set temp. $\frac{1}{4}$ sec.cor. Beyond this point, the random sec. line passes over cliffs and precipitous slopes, which prevent chaining; therefore, obtain measurement of the E. $\frac{1}{2}$ of line by means of offset line, as described as follows, and as shown on the diagram hereon:

From temp. $\frac{1}{4}$ sec.cor. of secs.1 and 12,
 South, 25.50 chs. in sec.12 to offset point.

Thence,
 N.89°50'E., 40.02 chs. in sec.12, parallel to and 25.50 chs. S. from random sec. line, to point of intersection with E. bdy. of Tp.

Thence,
 North, 25.18 chs. along E. bdy. of Tp., chaining measurement of 0.24 chs. to triangulation point at S. rim of canyon; thence by triangulated measurement of 24.80 chs.; thence by chained measurement of 0.14 chs., to the sec. cor. of secs. 1, 6, 7 and 12, as hereinbefore described in the notes of survey of E. bdy. of Tp.

The random sec. line extended thru. the E. $\frac{1}{2}$ bet. secs. 1 and 12 would therefore at

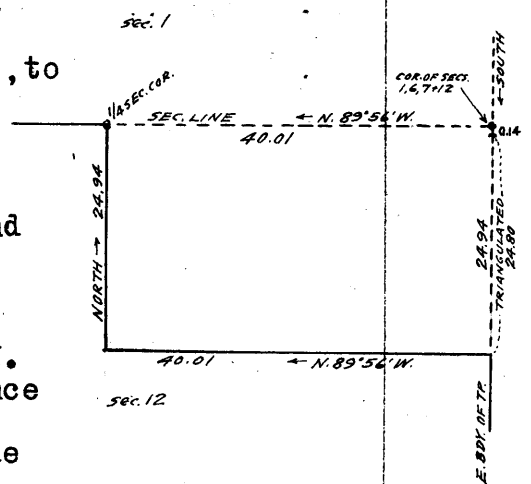
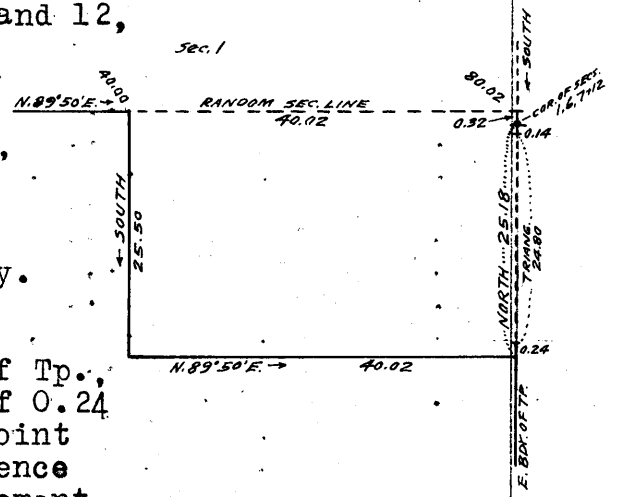
80.02

Fall 32 lks. N. of the cor. of secs. 1, 6, 7 and 12, on the E. bdy. of the Tp., hereinbefore described.

Thence,
 N.89°56'W., on true line, bet. secs.1 and 12.
 Over mountainous land, on S side of canyon, course E.; thru. scattering timber and undergrowth. To avoid cliffs and precipitous slopes, measure the E $\frac{1}{2}$ of the line by offset line, as described as follows, and as shown on the diagram hereon:

From cor. of secs. 1, 6, 7 and 12,
 South, 24.94 chs. along E. bdy. of Tp., to triangulation point at S. rim of canyon.

Thence,
 N.89°56'W., 40.01 chs. on offset line in sec.12 parallel to and 24.94 chs. S. of true sec. line.
 Asc. 78 ft., over NE. slope to top of spur, sloping N. at 10.57 ch. station; thence descend 235 ft. over NW. slope, to wash, 30 lks. wide in gulch, course NE. at 30.15 ch. station; thence ascend 90 ft. over NE. slope to offset point at 40.01 ch. station.
 Thence



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Chains.

- North, 24.94 chs. on offset line in sec. 12.
Descend 125 ft., over NE. slope to top of cliffs, bearing E. and W., facing N. at 13.00 ch. station; thence descend 450 ft., over steep broken N. slope to offset point on sec. line at the $\frac{1}{4}$ sec. cor.
- The approximate topography on the E. $\frac{1}{4}$ of the sec. line, bet. secs. 1 and 12, is described as follows:
Ascend over N. faces of cliffs, to
17.00 (Approx.) Bottom of gulch, course NE.
Ascend about 100 ft., over precipitous NE. and N. slopes, to
40.01 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 1
S 12
1923
- from which,
A pinyon, 10 ins. in diam., brs. N. $14\frac{1}{2}^{\circ}$ E., 40 lks. dist., marked $\frac{1}{4}$ S 1 BT.
A cedar, 8 ins. in diam., brs. S. 49° E., 118 lks. dist., marked $\frac{1}{4}$ S 12 BT.
- Thence on true sec. line, continuing measurement.
Ascend 16 ft., over N. slope.
41.70 Descend 20 ft., over NW. slope;
44.88 Wash, 20 lks. wide, course N.
Ascend 335 ft., over NE. slope.
65.00 Descend 46 ft., over NW. slope.
69.40 Ascend 78 ft., over broken N. slope.
76.00 Descend 27 ft., over NW. slope, to
78.32 Wash, 20 lks. wide, course NE.
Ascend 29 ft., over E. slope, to
80.02 The cor. of secs. 1, 2, 11 and 12.
Land, mountainous.
Soil, rocky, 4th rate.
Timber, cedar and pinyon.
Undergrowth, black brush, scrub oak, yucca and catclaw.
-
- 40.00 N. $0^{\circ}1'W.$, on a random line, bet. secs. 1 and 2.
Set temp. $\frac{1}{4}$ sec. cor.
80.13 Fall 13 lks. W. of the cor. of secs. 1, 2, 35 and 36 on N. bdy. of Tp., described in Book "D" of this group.
Thence,
S. $0^{\circ}5'W.$, on a true line, bet. secs. 1 and 2.
Over mountainous land, thru scattering timber and undergrowth.
Descend 22 ft. over E. slope, to
0.78 Spur, slopes SE.
Descend 340 ft., over S. slope.
16.50 Wash, 30 lks. wide, course E.
Ascend 185 ft., over NE. slope, to
40.13 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 2 | S 1
1923
- from which,
A pinyon, 10 ins. in diam., brs. S. $81\frac{1}{2}^{\circ}$ E., 85 lks. dist., marked $\frac{1}{4}$ S 1 BT.
A pinyon, 10 ins. in diam., brs. S. $56\frac{1}{2}^{\circ}$ W., 78 lks. dist., marked $\frac{1}{4}$ S 2 BT.
- Ascend 92 ft., over NE. slope.
56.50 Spur, slopes NE.
Descend 250 ft., over SE. slope.
70.10 Wash, 20 lks. wide, course SW.
Ascend 60 ft., over NW. slope.
73.50 Point of spur, slopes W.

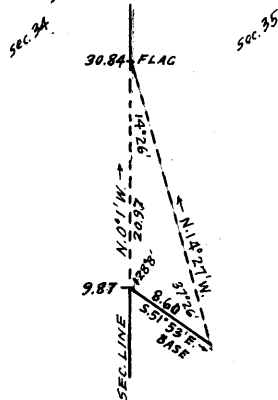
Survey of Subdivision lines of Township 30 North, Range 11 West. 31

Chains.

76.50 Descend 80 ft., over S.slope.
 Wash, 20 lks.wide, course E.
 Ascend 50 ft., over NE.slope, to
 80.13 The cor.of secs.1, 2, 11 and 12.
 Land, mountainous.
 Soil, rocky, 4th rate.
 Timber, cedar and pinyon.
 Undergrowth, black brush, scrub oak, catclaw and cactus.

 From cor.of secs. 2, 3, 34 and 35, on S. bdy.of Tp., herein-
 before described,
 N.0°1'W., bet. secs.34 and 35.
 Over rolling land, thru.dense timber and undergrowth.
 Ascend gradually over E.slope, to
 9.87 S.or right rim of canyon, brs.NW and SE.
 Discontinue chaining, and triangulate across canyon, as
 described as follows:

Measure a Base S.51°33'E., 8.60 chs.
 Set flag ahead on sec.line at N.
 or left rim of canyon.
 From SE.end of Base, the flag
 brs.N.14°27'W.
 From NW.end of Base, the vertical
 angle to flag is 0°, and to point
 on sec.line in bottom of canyon
 is - 42°.



Dist.on sec.line = 9.87 chs.N.0°1'W.
 Dist.triangulated = 20.97 chs.N.0°1'W.
 Total distance = 30.84 chs.N.0°1'W.

20.00 (Approx.) Bottom of canyon, course E., near head. About
 595 ft. below 9.88 ch.. station.

Ascend about 595 ft., over precipitous SE.slope.
 30.84 Triangulation point at N.or left rim of canyon, brs.NE.
 and SW. Leave canyon. Enter nearly level land. Con-
 tinue line and measurement by chaining.

Ascend slightly over E.slope, to
 40.00 Set an iron post, 3 ft.long, 1 in. in diam., 26 ins.in
 the ground for 1/4 sec.cor., marked on brass cap,

1/4
 S34 | S35
 1922

from which,
 A cedar, 6 ins.in diam., brs.S.45° E., 11 dist.,
 marked 1/4 S 35 BT.
 A cedar, 8 ins.in diam., brs.S.72°W., 80 lks.dist.,
 marked 1/4 S 34 BT.

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

Ascend slightly over E.slope, to
 76.40 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.26, 27, 34 and 35, marked
 on brass cap,

W | C
 T30N | R11W
 S27 | S26
 S34 | S35
 1922

from which,
 A cedar, 8 ins.in diam., brs.N.57°E., 24 lks.
 dist., marked WC T30N R11W S26 BT.
 A cedar, 10 ins.in diam., brs.S.69°E., 73 lks.
 dist., marked WC T30N R11W S35 BT.

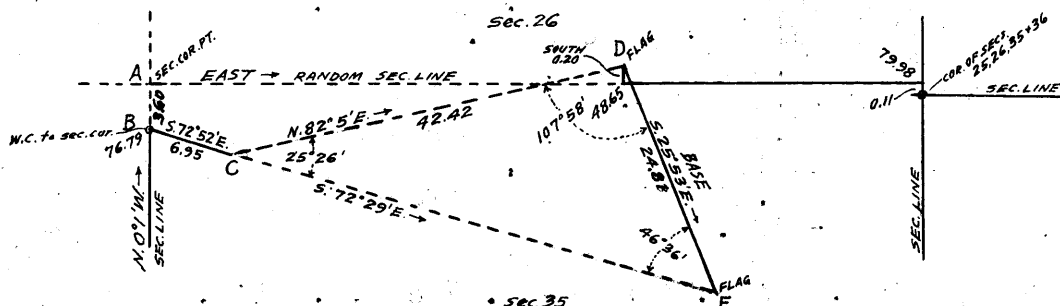
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32 Survey of Subdivision lines of Township 30 North, Range 11 West.

Chains.

- A cedar, 18 ins. in diam., brs. S.84°W., 62 lks. dist., marked W C T30N R11W S34 BT.
- A cedar, 20 ins. in diam., brs. N.82°W., 75 lks. dist., marked W C T30N R11W S27 BT.
- 76.79 West, or right rim of canyon, brs. NW. and SE. Discontinue chaining. Enter canyon.
- 80.00 Descend over cliffs, facing NE. True point for cor. of secs. 26, 27, 34 and 35 falls on cliffs, and is inaccessible. Land, rolling, mountainous and nearly level. Soil, rocky, 4th rate. Timber, cedar and pinyon. Undergrowth, black brush.

From true point for cor. of secs. 26, 27, 34 and 35, East, on random line, bet. secs. 26 and 35. The W. $\frac{1}{4}$ of this line is impassable owing to cliffs; therefore, traverse and triangulate as described as follows, and as shown on the accompanying diagram:



- The point for cor. of secs. 26, 27, 34 and 35, indicated on diagram at "A" being inaccessible, begin traverse at the W.C. thereto indicated at "B," and chain measurement S.72°52'E., 6.95 chs. to point "C," on canyon rim; thence triangulate as follows: Set a flag at point "D," which brs. N.82°05'E. from "C." From "D" measure a Base S.25°53'E., 24.81 chs., and set flag at point "E," which brs. S.72°29'E. from "C".
- Vertical angle from "C" to "D" is - 30°.
- Dist. "C-D" by triangulation = 42.42 chs. N.82°05'E.
- The latitude of the traverse "A-B-C-D" is 20 lks. N., and the departure 48.65 chs. E.; therefore, point "D" is 20 lks. N. of 48.65 ch. station on the random sec. line.
- From point "D" chain measurement South, 20 lks. to point on random line, at
- 48.65 Thence continue measurement East, on random line, bet. secs. 26 and 35.
- 79.98 Fall 11 lks. N. of the cor. of secs. 25, 26, 35 and 36. Thence, N.89°55'W., on true line, bet. secs. 26 and 35. Over mountainous land, in canyon, thru. scattering timber and dense undergrowth. Descend 330 ft., over SW. slope.
- 26.00 Wash, 30 lks. wide, course SE. in bottom of canyon. Ascend 345 ft., over precipitous E. slope, to
- 39.99 Set an iron post, 3 ft. long, 1 in. in diam., 16 ins. in the ground to bed rock, deposit a stone, marked with A cross (x) at base of post, and raise a mound of stone around post, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$ S 26
 S 35
 1923

No bearing trees available. Discontinue chaining, owing to precipitous ascent over cliffs. Measurement of W. $\frac{1}{4}$ of line by triangulation and traverse, as hereinbefore described. Ascend about 1200 ft. over E. and NE. slopes, to

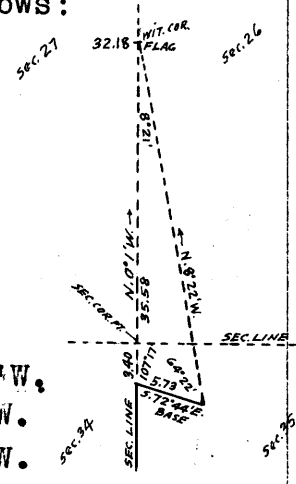
Survey of Subdivision lines of Township 30 North, Range 11 West, 33

Chains.

79.98 The true point for cor. of secs. 26, 27, 34 and 35, on NE. face of cliffs, witnessed 3.60 chs. S. 0° 1' E.
 Land, mountainous.
 Soil, rocky, 4th rate.
 Timber, cedar and pinyon.
 Undergrowth, black brush and scrub oak.

 From true point for cor. of secs. 26, 27, 34 and 35, N. 0° 1' W., bet. secs. 26 and 27.
 Over mountainous land, in canyon, thru. scattering timber and undergrowth.
 This entire line falls on precipitous slopes on W. side of a canyon, and few points are accessible; therefore, triangulate measurement to a point on sec. line as close to the $\frac{1}{4}$ sec. cor. point as it is practicable to establish witness cor., as described as follows:

From a point on sec. line, bet. secs. 34 and 35, which is 3.40 chs. S. 0° 1' E. from the true point for cor. of secs. 26, 27, 34 and 35, measure a Base S. 72° 44' E., 5.73 chs.
 Set flag ahead on sec. line, bet. secs. 26 and 27.
 From SE end of Base, the flag brs. N. 8° 22' W.



Dist. triangulated = 35.58 chs. N. 0° 1' W.
 Dist. bet. secs. 34 & 35, = 3.40 chs. N. 0° 1' W.
 Dist. bet. secs. 26 and 27 = 32.18 chs. N. 0° 1' W.

32.18 Triangulation point on narrow rocky ledge, bearing NE. and SW.
 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 witness cor. to $\frac{1}{4}$ sec. cor., marked on brass cap,

W C
 $\frac{1}{4}$
 S27 | S26
 1922

No bearing trees available.
 It is impracticable to triangulate from this point or chain any measurement on the sec. line.

40.00 True point for $\frac{1}{4}$ sec. cor. is inaccessible.
 Continue over broken precipitous E. and NE. slopes in canyon.

80.00 True point for cor. of secs. 22, 23, 26 and 27 on cliff, where it is inaccessible. This point is located after survey of the W. and N. bdrs. of secs. 26 and 34, as hereinafter described, and at a point 5.74 chs. W. herefrom establish witness cor. as follows:
 Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in the ground, for witness cor. to the cor. of secs. 22, 23, 26 and 27, marked on brass cap,

T30N | R11W
 S22 | S23 WC
 S27 | S26
 1922

from which,
 A cedar, 12 ins. in diam., brs. N. 25° E., 135 lks.
 dist., marked WC T30N R11W S23 BT.
 A cedar, 6 ins. in diam., brs. S. 9° E., 27 lks.
 dist., marked WC T30N R11W S26 BT.
 A pinyon, 10 ins. in diam., brs. S. 38° W., 26 lks.
 dist., marked WC T30N R11W S27 BT.

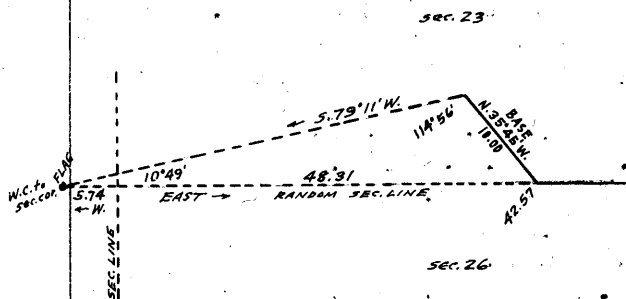
34 Survey of Subdivision lines of Township 30 North Range 11 West.

Chains.

A pinyon, 8 ins. in diam., brs. N. 65° W., 33 lks.
dist., marked W C T 30N R11W S22 BT.

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

From true point for cor. of secs. 22, 23, 26 and 27,
East, on random line, bet. secs. 23 and 26.
The W. $\frac{1}{4}$ of this line passes over cliffs in canyon, and
chaining is impracticable; therefore, triangulate as
described as follows:



Set flag on the W.C. to cor.
of secs. 22, 23, 26 and 27, 5.74
chs. W. of cor. point.

From a point ahead on random
line, measure a Base N. 35° 45'
W., 10.00 chs., along canyon
rim.

From NW. end of Base, the flag
brs. S. 79° 11' W.

From SE. end of Base, the ver-
tical angle to flag is -9°,
and to point on line in bot-
tom of canyon is -25°.

point on line, in bottom of

Dist. triangulated

Dist. bet. secs. 22 & 27 = 48.31 chs. East.

Dist. bet. secs. 23 & 26 = 5.74 chs. East.

Dist. bet. secs. 23 & 26 = 42.57 chs. East.

42.57 Triangulation point at E. or left rim of canyon. Set temp.
witness cor. to $\frac{1}{4}$ sec. cor.

Continue line and measurement by chaining.

78.65 Fall 21 lks. S. of the W.C. to cor. of secs. 23, 24, 25 and 26.
This monument being 1.29 chs. W. of sec. cor. pt., the random
line extended would at

79.94 Fall 21 lks. S. of the true point for cor. of secs. 23, 24, 25
and 26.

Thence,
S. 89° 51' W., on true line, bet. secs. 23 and 26.

Over mountainous land in canyon, thru scattering timber
and undergrowth.

Measurement of 1.29 chs. by triangulation and traverse, as
described in notes of line bet. secs. 25 and 26.

1.29 Ascend over face of cliff, to
(W. of cor. point) Witness cor. to cor. of secs. 23, 24, 25 and
26, at top of cliff.

17.33 Ascend 617 ft., over precipitous E. slope, to
West rim of canyon, brs. NE. and S. Leave canyon; enter
rolling land on bench between canyons.

Ascend 60 ft., over SE. slope.

26.00 Descend 40 ft., over SW. slope, to

37.37 Triangulation point at top of cliff, 200 ft. high, bearing
NW. and SE., facing SW., and forming E. or left rim of
canyon. As the point for the $\frac{1}{4}$ sec. cor. falls on face
of cliff, and is inaccessible, establish witness cor.
at 37.37 ch. point, as described as follows:

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

WC $\frac{1}{4}$ S 23
S 26
1923

from which,

A cedar, 12 ins. in diam., brs. N. 46 $\frac{1}{2}$ ° W., 95 lks.
dist., marked WC $\frac{1}{4}$ S 23 BT.

A pinyon, 10 ins. in diam., brs. S. 27° W., 37 lks.
dist., marked WC $\frac{1}{4}$ S 26 BT.

Discontinue chaining. Enter canyon. Measurement to sec.
cor. point by triangulation, hereinbefore described.

Survey of Subdivision lines of Township 30 North, Range 11 West, 35

Chains.

Descend about 1230 ft., over precipitous SW. slope and cliffs to bottom of canyon.

39.97 True point for $\frac{1}{4}$ sec. cor. falls on face of cliff, and is inaccessible.

55.00 (Approx.) Gulch, course SW.

70.00 (Approx.) Gulch, course SW.

77.00 (Approx.) Bottom of canyon, course SE.

Ascend over NE. face of cliffs.

79.94 The true point for cor. of secs. 22, 23, 26 and 27 inaccessible. Witnessed 5.74 chs. west.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, cedar and pinyon.

Undergrowth, black brush and sagebrush.

From true point for cor. of secs. 22, 23, 26 and 27, N. 0° 1' W., bet. secs. 22 and 23.

Over mountainous land, in canyon, thru scattering timber and undergrowth.

Precipitous slopes render chaining impracticable, and a triangulation is also impracticable; therefore, secure measurement to point ahead on sec. line at canyon rim by lining in a flag at said point, N. 0° 1' W. from the W. C. to cor. of secs. 26, 27, 34 and 35. Then measure S. 0° 1' E. from temp. cor. of secs. 14, 15, 22 and 23, previously set at 80.00 chs. E. from cor. of secs. 15, 16, 21 and 22, and at 53.30 chs. intersect said flag point. The theoretical distance from cor. point to flag is therefore, 80.00 chs. - 53.30 chs. = 26.70 chs. N. 0° 1' W.

5.00 (Approx.) Wash, 50 lks. wide, course SE. in bottom of canyon.

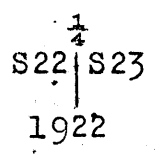
Ascend about 1000 ft., over precipitous cliffs, to

26.70 (Theoretical) Top of cliffs, bearing NW. and SE. facing SW., and forming East or left rim of canyon. Leave canyon. Continue line and measurement by chaining.

Enter gently rolling bench land, dense timber and undergrowth.

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



from which,

A cedar limb, 6 ins. in diam., brs. N. 72° E., 40 lks. dist., marked $\frac{1}{4}$ S 23 BT.

A cedar, 14 ins. in diam., brs. S. 70° W., 33 lks. dist., marked $\frac{1}{4}$ S 22 BT.

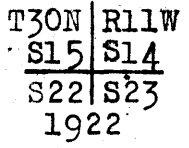
Continue over gently rolling land, thru dense timber and undergrowth.

Ascend gradually over W. slope, to

58.47 Shallow draw, 50 lks. wide, course W.

Ascend gradually over SW. and W. slopes, 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. 14, 15, 22 and 23, marked on brass cap,



from which,

A cedar limb, 8 ins. in diam., brs. N. 42 $\frac{1}{2}$ ° E., 140 lks. dist., marked T30N R11W S14 BT.

A cedar, 4 ins. in diam., brs. S. 51 $\frac{1}{2}$ ° E., 96 lks. dist., marked BT.

A cedar, 14 ins. in diam., brs. S. 60° W., 126 lks. dist., marked T30N R11W S22 BT.

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36 Survey of Subdivision lines of Township 30 North, Range 11 West.

Chains.

A cedar limb, 12 ins. in diam., brs. N. 39° W., 124 lks. dist., marked T30N R11W S15 BT.
 Land, mountainous and gently rolling.
 Soil, rocky, 3rd and 4th rate.
 Timber, cedar and pinyon.
 Undergrowth, scrub oak, cactus and blackbrush.

40.00 N. 89° 51' E., on a random line, bet. secs. 14 and 23.
 Set temp. $\frac{1}{4}$ sec. cor.
 80.12 Fall 19 lks. N. of the cor. of secs. 13, 14, 23 and 24.
 Thence,
 S. 89° 59' W., on a true line, bet. secs. 14 and 23.
 Over gently rolling land, thru. dense timber and undergrowth.
 Descend 45 ft., over NW. slope.
 10.00 Ascend gradually over SE. slope to $\frac{1}{4}$ sec. cor.
 33.20 Shallow draw, 10 lks. wide, course SE.
 40.06 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 14
 S 23
 1922

from which,

A cedar, 6 ins. in diam., brs. N. 10° W., 36 lks. dist., marked $\frac{1}{4}$ S 14 BT.
 A cedar, 14 ins. in diam., brs. S. 61° W., 40 lks. dist., marked $\frac{1}{4}$ S 23 BT.
 Ascend gradually over SE. slope.
 45.00 Low ridge, brs. NE. and SW.
 Descend gradually over W. slope, to
 80.12 The cor. of secs. 14, 15, 22 and 23.
 Land, gently rolling.
 Soil, rocky, 2nd and 3rd rate.
 Timber, cedar and pinyon.
 Undergrowth, scrub oak and manzanita.

N. 0° 1' W., bet. secs. 14 and 15.
 Over gently rolling land, thru. dense timber and undergrowth.
 Descend gradually over W. and NW. slopes, 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,

$\frac{1}{4}$
 S15 | S14
 1922

from which,

A cedar limb, 10 ins. in diam., brs. S. 85° E., 58 lks. dist., marked $\frac{1}{4}$ S 14 BT.
 A cedar, 10 ins. in diam., brs. S. 30° W., 157 lks. dist., marked $\frac{1}{4}$ S 15 BT.
 Continue over gently rolling land, thru. dense timber and undergrowth.
 Descend gradually 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. 10, 11, 14 and 15, marked on brass cap,

T30N | R11W
 S10 | S11
 S15 | S14
 1922

from which,

A cedar, 4 ins. in diam., brs. N. 71 $\frac{1}{2}$ ° E., 48 lks. dist., marked BT.

Survey of Subdivision lines of Township 30 North Range 11 West. 37

Chains.

A pinyon, 10 ins. in diam., brs. S. 56° E., 140 lks. dist., marked T30N R11W S14 BT.

A cedar, 18 ins. in diam., brs. S. 47½° W., 162 lks. dist., marked T30N R11W S15 BT.

A pinyon, 6 ins. in diam., brs. N. 13½° W., 69 lks. dist., marked T30N R11W S10 BT.

Land, gently rolling. Soil, clay loam, 3rd rate.
 Timber, cedar and pinyon.
 Undergrowth, scrub oak, sagebrush and greasewood.

40.00 N. 89° 59' E., on a random line, bet. secs. 11 and 14.
 Set temp. ¼ sec. cor.

80.00 Fall 2 lks. N. of the cor. of secs. 11, 12, 13 and 14.
 Thence,
 West, on a true line, bet. secs. 11 and 14.
 Over mountainous land, thru. scattering timber and undergrowth.

3.35 Ascend 200 ft., over cliffs, to
 Rim, brs. SE. and NW. Leave mountainous and enter nearly level land, dense timber and undergrowth.

15.00 Enter rolling land.
 Descend 70 ft., over SW. slope, to

25.00 Foot of descent, brs. NW. and SE. Enter nearly level land.
 Descend slightly over SW. 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 S 11
 S 14
 1922

from which,

A cedar, 18 ins. in diam., brs. N. 87½° W., 100 lks. dist., marked ¼ S 11 BT.

A cedar, 6 ins. in diam., brs. S. 46° W., 138 lks. dist., marked ¼ S 14 BT.

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

43.00 Descend slightly over SW. slope, to
 Shallow draw, 100 lks. wide, course NW. Enter gently rolling land.

Ascend gradually over NE. slope.
 55.00 Descend gradually over NW. slope, to
 80.00 The cor. of secs. 10, 11, 14 and 15.
 Land, mountainous, rolling, nearly level and gently rolling.

Soil, rocky, 3rd and 4th rate.
 Timber, cedar and pinyon.
 Undergrowth, black brush, scrub oak and sagebrush.

40.00 N. 0° 1' W., bet. secs. 10 and 11.
 Over gently rolling land, thru. dense timber and undergrowth.
 Descend gradually over NW. slope, to
 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for ¼ sec. cor., marked on brass cap,

¼
 S10 | S11
 1922

from which,

A cedar, 12 ins. in diam., brs. S. 46½° E., 32 lks. dist., marked ¼ S 11 BT.

A cedar, 14 ins. in diam., brs. S. 74½° W., 40 lks. dist., marked ¼ S 10 BT.

80.00 Enter nearly level land.
 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,

BOOK 3644

38 Survey of Subdivision lines of Township 30 North Range 11 West.

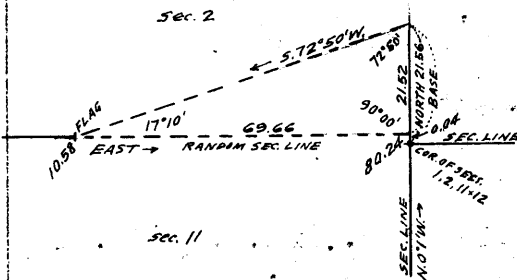
Chains.

T30N R11W
S 3 S 2
S10 S11
1922

- from which,
- A cedar, 8 ins. in diam., brs. N. $73\frac{1}{2}^{\circ}$ E., 135 lks.
dist., marked T30N R11W S2 BT.
- A cedar, 12 ins. in diam., brs. S. $36\frac{1}{2}^{\circ}$ E., 129 lks.
dist., marked T30N R11W S11 BT.
- A cedar, 22 ins. in diam., brs. S. 32° W., 128 lks.
dist., marked T30N R11W S10 BT.
- A cedar, 16 ins. in diam., brs. N. $33\frac{1}{2}^{\circ}$ W., 63 lks.
dist., marked T30N R11W S3 BT.

Land, gently rolling and nearly level.
Soil, sand and clay loam, 2nd rate.
Timber, cedar, pinyon and oak.
Undergrowth, scrub oak and sagebrush.

10.58 East, on random, bet. secs. 2 and 11.
Rim, brs. N. and S. Discontinue chaining owing to precipitous broken descent beyond this point. Triangulate measurement of remainder of line, as follows:



Set flag at this point.
From a point 4 lks. N. of cor. of secs. 1, 2, 11 and 12, the flag brs. West, with a vertical angle of $+ 22^{\circ}$.
From said sec. cor., measure north 21.56 chs. to a point from which the flag brs. S. $72^{\circ} 50' W.$
The Base for the triangulation is therefore 21.56 chs. ± 0.04 chs. = 21.52 chs. N.

Dist. on random sec. line = 10.58 chs. East.
Dist. triangulated, = 69.66 chs. East.
Total length of random line = 80.24 chs. East.

80.24 The random line extended East would therefore at Fall 4 lks. N. of the cor. of secs. 1, 2, 11 and 12. Thence N. $89^{\circ} 58' W.$, on a true line, bet. secs. 2 and 11. Over mountainous land, thru scattering timber and undergrowth.

40.12 Ascend 765 ft. over NE. and N. slopes, 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 2
S 11
1923

No bearing trees available. Raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.
Discontinue chaining owing to precipitous broken ascent beyond this cor.
Measurement to top of ascent by triangulation, as hereinbefore described.

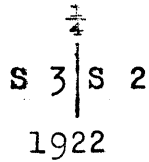
69.66 Ascend about 1090 ft. to Triangulation point at rim, bearing N. and S. Leave mountainous land. Continue line and measurement by chaining. Enter nearly level land, thru dense timber and undergrowth.

80.24 The cor. of secs. 2, 3, 10 and 11.
Land, mountainous and nearly level.
Soil, rocky; 4th rate.
Timber, cedar and pinyon.
Undergrowth, scrub oak, black brush, yucca and cactus.

Survey of Subdivision lines of Township 30 North, Range 11 West. 39

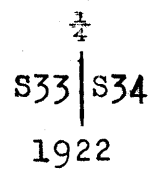
Chains.

40.00 N.0°5'E., on a random line, bet. secs.2 and 3.
 Set temp. $\frac{1}{4}$ sec.cor.
 80.06 Fall 26 lks+E.of the cor.of secs. 2,3,34 and 35, on N.bdy.
 of Tp., described in Book "D" of this group.
 Thence,
 S.0°6'E., on a true line, bet. secs.2 and 3.
 Over nearly level land, thru.dense timber and scattering
 undergrowth.
 40.06 Descend slightly over W. and SW. slopes, 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,

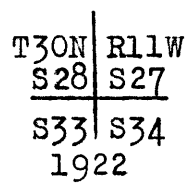


from which,
 A pinyon, 10 ins. in diam., brs.N.61°E., 16
 lks.dist., marked $\frac{1}{4}$ S 2 BT.
 A cedar, 16 ins.in diam., brs.N.40°W., 122
 lks.dist., marked $\frac{1}{4}$ S 3 BT.
 Continue over nearly level land, thru.dense timber and
 undergrowth.
 Descend slightly over SW.slope.
 44.70 Shallow draw, course SW.
 Descend slightly over SW. and W.slopes, to
 80.06 The cor.of secs.2,3, 10 and 11.
 Land, nearly level.
 Soil, sand and clay loam, 2nd rate.
 Timber, cedar and pinyon.
 Undergrowth, sagebrush and scrub oak.

From the cor.of secs. 3,4, 33 and 34, on S. bdy.of Tp.,
 hereinbefore described,
 N.0°2'W., bet. secs.33 and 34.
 Over mountainous land, thru.dense timber and undergrowth.
 Ascend 20 ft., over S.slope.
 2.00 Top of Blue mountain, brs.E.and W. Leave timber.
 Descend 260 ft., over N.slope, to
 20.00 Draw, 10 lks.wide, course NE. Enter nearly level land.
 30.00 Enter dense timber, brs.NE. and SW. Enter gently rolling
 land.
 40.00 Ascend gradually over SE. 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,



from which,
 A cedar, 8 ins.in diam., brs.S.66°E., 67 lks.
 dist., marked $\frac{1}{4}$ S 34 BT.
 A cedar, 8 ins.in diam., brs.N.71°W., 69 lks+
 dist., marked $\frac{1}{4}$ S 33 BT.
 Ascend gradually over SE.slope.
 45.00 Flat topped ridge, brs.NE, and SW.
 Descend 85 ft.over NW.slope, to
 80.00 Set an iron post, 3 ft.long, 2 ins.in diam., 26 ins. in
 the ground, for cor.of secs. 27,28, 33 and 34, marked
 on brass cap,



40. Survey of Subdivision lines of Township 30 North, Range 11 West.

Chains.

from which,
 A cedar, 24 ins. in diam., brs. N. 83° E., 64 lks. dist., marked T3ON R11W S27 BT.
 A cedar, 8 ins. in diam., brs. S. 33½° E., 27 lks. dist., marked T3ON R11W S34 BT.
 A cedar, 20 ins. in diam., brs. S. 48¾° W., 270 lks. dist., marked T3ON R11W S33 BT.
 A cedar, 6 ins. in diam., brs. N. 54° W., 108 lks. dist., marked T3ON R11W S28 BT.
 Land, mountainous, gently rolling and nearly level.
 Soil, rocky, 3rd rate.
 Timber, cedar, oak and pinyon.
 Undergrowth, locust, scrub oak, manzanita and sagebrush.

East, on random line, bet. secs. 27 and 34.

40.00
 73.45
 73.60

Set temp. ¼ sec. cor.

Offset point.

Top of cliffs, bearing NW. and SE., facing NE. Precipitous descent beyond this point prevents continuation of chaining on random line; therefore, obtain measurement to sec. cor. point by offset line, as described as follows:

From 73.45 ch. station, on random line,
 S. 0° 1' E., 3.21 chs. on offset line to offset point in sec. 34.

Thence,

East, 6.79 chs. on offset line in sec. 34, parallel to and 3.21 chs. S. of random sec. line, to point on sec. line, bet. secs. 34 and 35.

Thence,

N. 0° 1' W., 3.31 chs. on sec. line, to point for cor. of secs. 26, 27, 34 and 35, chaining measurement of 0.10 chs. to canyon rim; thence by triangulation to sec. cor. point, as hereinbefore described.

80.24

The random sec. line extended East; would therefore, at Fall 10 lks. S. of the true point for cor. of secs. 26, 27, 34 and 35.

Thence,

S. 89° 56' W., on true line, bet. secs. 27 and 34.

Over mountainous land in canyon, thru scattering timber and undergrowth.

Ascend over cliffs, measurement to top of same by offset line, as described as follows:

S. 0° 1' E., 3.21 chs. by triangulation, on sec. line, bet. secs. 34 and 35 to rim of canyon;

Thence

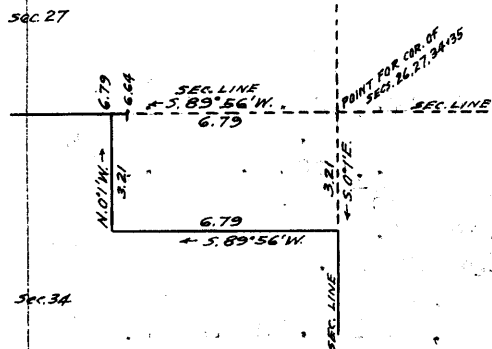
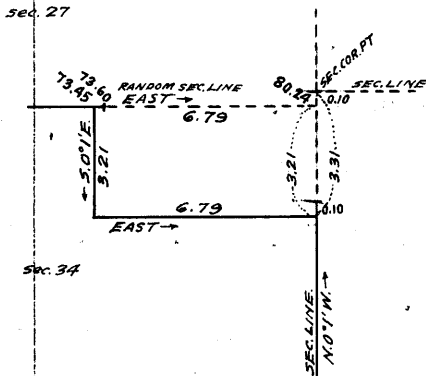
S. 89° 56' W., 6.79 chs. chaining measurement on offset line in sec. 34, parallel to and 3.21 chs. S. of true sec. line, to offset point.

Thence,

N. 0° 1' W., 3.21 chs. on offset line to point on true sec. line at 6.79 chs. S. 89° 56' W. from the true sec. cor. point.

Thence,

N. 89° 56' E., 0.15 chs. on true sec. line, to



Survey of Subdivision lines of Township 30 North, Range 11 West. 41

Chains.

- 6.64 Top of cliff, bearing NW and SE., facing NE., and forming W. or right rim of canyon.
Thence S. 89° 56' W., on true sec. line, continuing measurement from sec. cor. point.
Leave canyon, and enter gently rolling land, dense timber and undergrowth.
Descend 55 ft., over SW. slope.
- 6.79 Offset point. Continue line and measurement.
- 15.00 Enter nearly level land, sloping slightly to the N. and NW.
- 32.24 Road, brs. N. and S.
- 40.12 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 27
 S 34
 1922

from which,
 A cedar, 18 ins. in diam., brs. N. 8° E., 60 lks.
 dist., marked $\frac{1}{4}$ S 27 BT.
 A cedar, 8 ins. in diam., brs. S. 35° E., 47 lks.
 dist., marked $\frac{1}{4}$ S 34 BT.

- 80.24 Continue over nearly level land, thru. dense timber and undergrowth.
Descend slightly over NW. and N. slopes, to
The cor. of secs. 27, 28, 33 and 34.
Land, mountainous, gently rolling and nearly level.
Soil, rocky, 3rd and 4th rate.
Timber, cedar and pinyon.
Undergrowth, black brush, scrub oak and sagebrush.

 N. 0° 2' W., bet. secs. 27 and 28.
 Over nearly level land, thru. dense timber and undergrowth.

- 30.00 Descend slightly over N. slope, to
Enter gently rolling land.
- 40.00 Descend gradually over NE. and E. slopes, 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 27
 1922

from which,
 A cedar, 8 ins. in diam., brs. S. 88 $\frac{1}{2}$ ° W., 12 lks.
 dist., marked $\frac{1}{4}$ S 27 BT.
 A cedar, 6 ins. in diam., brs. S. 65 $\frac{1}{2}$ ° W., 81 lks.
 dist., marked $\frac{1}{4}$ S 28 BT.

- 42.00 Descend slightly over E. slope, to
Low spur, slopes NE. Enter rolling land.
Descend 80 ft., over N. slope.
- 70.00 Draw, 20 lks. wide, course NW.
Ascend 35 ft.; over SW. slope, to
- 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 12 ins. in the ground to bed rock, supported in a mound of stone, for cor. of secs. 21, 22, 27 and 28, marked on brass cap,

T30N | R11W
 S21 | S22
 S28 | S27

1922

from which,

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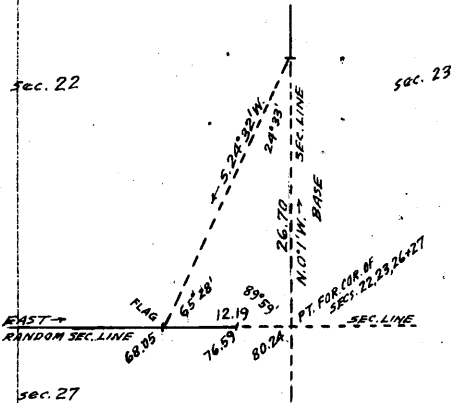
Chains.

- A cedar limb, 12 ins. in diam., brs. N. 47° E., 75 lks. dist., marked T30N R11W S22 BT.
- A cedar, 20 ins. in diam., brs. S. 73° E., 53 lks. dist., marked T30N R11W S27 BT.
- A cedar, 20 ins. in diam., brs. S. 68° W., 115 lks. dist., marked T30N R11W S28 BT.
- A cedar, 18 ins. in diam., brs. N. 65° W., 120 lks. dist., marked T30N R11W S21 BT.

Land, nearly level, rolling and gently rolling.
 Soil, gravelly and rocky, 2nd and 3rd rate.
 Timber, oak, cedar and pinyon.
 Undergrowth, scrub oak and sagebrush.

40.00
 68.05
 76.59

East, on random line, bet. secs. 22 and 27.
 Set temp. $\frac{1}{4}$ sec. cor.
 Triangulation point at W. or right rim of canyon. Set flag. Continue line and measurement by chaining.
 Discontinue chaining owing to cliffs beyond this point. Triangulate measurement to sec. cor. point, as described as follows:



From 26.70 ch. station, on line bet. secs. 22 and 23, at E. or left rim of canyon, the flag at 68.05 ch. station on random sec. line brs. S. 24° 32' W., with a vertical angle of 0°. Use as a Base that portion of the sec. line bet. secs. 22 and 23, from sec. cor. point to E. rim of canyon, the measurement of which (N. 0° 1' W., 26.70 chs.) was obtained, as hereinbefore described.

Dist. on random sec. line = 68.05 chs. East.
 Dist. triangulated = 12.19 chs. East.

80.24

Total length of random line = 80.24 chs. East.
 Intersect the true point for cor. of secs. 22, 23, 26 and 27 on NE. face of cliff, where it is inaccessible.

Thence, West, on true line, bet. secs. 22 and 27.
 Over mountainous land, in canyon, thru. scattering timber and undergrowth. Measurement by triangulation to

3.65
 5.74

Rocky wash, 40 lks. wide, course NE. Foot of bluff, 70 ft. high, facing SE. brs. N. 30 lks. dist.
 Continue line and measurement by chaining.
 Ascend 40 ft., over E. slope, to
 Establish witness cor. to cor. of secs. 22, 23, 26 and 27, at this point, as hereinbefore described.

12.19

Ascend 375 ft., over precipitous E. slope, to
 Triangulation point at West or right rim of canyon, bearing N. and S. Leave canyon. Continue chaining. Enter rolling land, dense timber and undergrowth.

28.80

Descend 82 ft., over W. slope.
 Wash, 30 lks. wide, course S.

40.12

Ascend gradually over S. 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,

$\frac{1}{4}$ S 22
 $\frac{1}{4}$ S 27
 1922

from which,
 A cedar, 8 ins. in diam., brs. N. 67° E., 620 lks. dist., marked $\frac{1}{4}$ S 22 BT.
 A cedar, 10 ins. in diam., brs. S. 40° W., 37 lks. dist., marked $\frac{1}{4}$ S 27 BT.

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Chains. Continue over rolling land, thru dense timber and undergrowth.
 45.50 Descend gradually over S. and SW. slopes to sec. cor.
 80.24 Road brs. N. and S.
 The cor. of secs. 21, 22, 27 and 28.
 Land, mountainous and rolling.
 Soil, rocky, 3rd and 4th rate.
 Timber, cedar and pinyon.
 Undergrowth, black brush, scrub oak and sagebrush.

N. 0° 2' W., on a true line, bet. secs. 21 and 22.
 Over rolling land, thru dense timber and scattering undergrowth.
 5.00 Descend 30 ft., over NW. slope.
 Draw, 100 lks. wide, course W.
 20.00 Ascend 40 ft., over SW. and W. slopes.
 40.00 Descend gradually over W. and NW slopes, 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,

\uparrow
 S21 | S22
 1922

from which,
 A cedar, 8 ins. in diam., brs. S. 49° E., 86 lks. dist., marked $\frac{1}{4}$ S 22 BT.
 A cedar, 10 ins. in diam., brs. N. 80° W., 55 lks. dist., marked $\frac{1}{4}$ S 21 BT.
 Ascend gradually over SW. and S. slopes
 70.00 Low ridge, brs. NE. and SW.
 80.00 Descend 40 ft., over NW. slope, to
 Set an iron post, 3 ft. long, 2 ins. in diam., on surface rock, supported in a mound of stone, for cor. of secs. 15, 16, 21 and 22, marked on brass cap,

T30N | R11W
 S16 | S15
 S21 | S22
 1922

from which,
 A cedar, 10 ins. in diam., brs. N. 28° E., 112 lks. dist., marked T30N R11W S15 BT.
 A cedar, 12 ins. in diam., brs. S. 89° E., 98 lks. dist., marked T30N R11W S22 BT.
 A cedar limb, 12 ins. in diam., brs. S. 39° W., 143 lks. dist., marked T30N R11W S21 BT.
 A cedar, 10 ins. in diam., brs. N. 83° W., 92 lks. dist., marked T30N R11W S16 BT.

Land, rolling.
 Soil, gravelly and rocky, 3rd rate.
 Timber, cedar, pinyon and oak.
 Undergrowth, scrub oak and sagebrush.

40.00 East, on a random line, bet. secs. 15 and 22.
 80.00 Set temp. $\frac{1}{4}$ sec. cor.
 Intersect the cor. of secs. 14, 15, 22 and 23.
 Thence,
 West, on true line, bet. secs. 15 and 22.
 Over gently rolling land, thru dense timber and undergrowth.
 Descend gradually over W. slope, to
 30.00 Enter rolling land.
 Descend 85 ft., over SW. slope to $\frac{1}{4}$ sec. cor. From this point a water hole at head of Canyon, known as Price Pocket, brs. S. 5° W. about 25 chs. dist.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the

44 Survey of Subdivision lines of Township 30 North, Range 11 West

Chains.

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

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

from which,

A yellow pine, 30 ins.in diam., brs.N.61° W.
 225 lks.dist., marked $\frac{1}{4}$ S 15 BT.

A cedar, 6 ins. in diam., brs.S. 31 $\frac{1}{2}$ °E., 14
 lks.dist., marked $\frac{1}{4}$ S 22 BT.

- 40.30 Descend slightly over SW. slope, to
 Shallow draw, 50 lks.wide, course S.
 Ascend 100 ft., over E.slope.
- 47.32 Old road, brs.N.and S.
- 49.37 Center of small corral, on line.
- 67.00 Ascend 57 ft., over SE.slope.
- 72.00 Ridge, brs.SW. and NE.
- 80.00 Descend 70 ft., over NW. slope, to
 The cor.of secs.15,16, 21 and 22.
 Land, gently rolling and rolling.
 Soil, rocky, 3rd rate.
 Timber, cedar, oak and pinyon.
 Undergrowth, scrub oak, locust, yucca, sagebrush and man-
 zanita.

N.0°2'W., bet. secs.15 and 16.

Over rolling land, thru.dense timber and undergrowth.
 Descend 80 ft., over NW.slope.

- 10.60 Trail, brs.NE and SW.
- 11.00 Log and brush fence, brs.NE and SW.
- 16.32 Draw, 20 lks.wide, course W: Trail, brs.E.and W.
 Ascend 95 ft., over SW.slope to $\frac{1}{4}$ sec.cor.
- 31.30 Same log and brush fence, brs.SE.and NW.
- 40.00 Set an iron post, 3 ft.long, 1 in.in diam., 26 ins.in
 the ground for $\frac{1}{4}$ sec.cor., marked on brass cap,

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

from which,

A cedar, 14 ins. in diam., brs.S.86°E., 131
 lks.dist., marked $\frac{1}{4}$ S 15 BT.

A cedar, 16 ins.in diam., brs.S.74°W., 80
 lks.dist., marked $\frac{1}{4}$ S 16 BT.

- 60.00 Ascend 65 ft., over SW.slope.
 Flat topped ridge, brs.SE. and NW.
- 80.00 Descend 50 ft., over NE. and E.slopes, to
 Set an iron post, 3 ft.long, 2 ins. in diam., 26 ins. in
 the ground for cor.of secs.15,16, 21 and 22, marked on
 brass cap,

T30N | R11W
 S 9 | S 10
 S16 | S15
 1922

from which,

A cedar, 12 ins.in diam., brs.N.15°E., 260 lks.
 dist., marked T30N R11W S10 BT.

A cedar, 10 ins. in diam., brs.S.34°E., 33 lks.
 dist., marked T30N R11W S15 BT.

A cedar, 20 ins. in diam., brs.S.75°W., 21 lks.
 dist., marked T30N R11W S16 BT.

A cedar, 20 ins.in diam., brs.N. 45° W., 65 lks.
 dist., marked T30N R11W S9 BT.

Land, rolling.

Survey of Subdivision lines of Township 30 North, Range 11 West. 45

Chains.

Soil, gravelly and rocky, 3rd rate.
 Timber, cedar, pinyon and oak.
 Undergrowth, scrub oak and sagebrush.

40.00 East, on random line, bet. secs. 10 and 15.
 79.88 Set temp. $\frac{1}{4}$ sec. cor.
 Fall 21 lks. S. of the cor. of secs. 10, 11, 14 and 15.
 Thence,
 S. $89^{\circ}51'$ W., on a true line, bet. secs. 10 and 15.
 Over gently rolling land, thru. dense timber and scattering
 undergrowth.
 39.50 Descend gradually over NW. slope, to
 Leave timber, brs. N. and S. Enter nearly level land, slop-
 ing S.
 39.94 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, 6 ins. in diam., brs. N. 22° E., 66 lks.
 dist., marked $\frac{1}{4}$ S 10 BT.
 A cedar, 6 ins. in diam., brs. S. 11° W., 96 lks.
 dist., marked $\frac{1}{4}$ S 15 BT.

Continue over nearly level land, sloping slightly to the
 S.
 41.80 Trail, brs. N. and S.
 48.00 Enter scattering timber, brs. N. and S.
 60.00 Leave timber.
 63.90 Old road, brs. N. and S.
 72.00 Leave nearly level, and enter rolling land and dense tim-
 ber, brs. SE. and NW.
 79.88 Ascend gradually over E. slope, to
 The cor. of secs. 9, 10, 15 and 16.
 Land, gently rolling and nearly level.
 Soil, rocky, clay loam, 2nd and 3rd rate.
 Timber, cedar and pinyon.
 Undergrowth, scrub oak and sagebrush.

N. $0^{\circ}2'$ W., bet. secs. 9 and 10.
 Over rolling land, thru. dense timber and undergrowth.
 Ascend gradually over E. slope.
 3.70 Road, brs. E. and W.
 20.00 Descend gradually over NE. 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 9 | S 10
 1922

ffom which,
 A cedar, 6 ins. in diam., brs. S. 53° E., 112 lks.
 dist., marked $\frac{1}{4}$ S 10 BT.
 A cedar, 10 ins. in diam., brs. S. 50° W., 146 lks.
 dist., marked $\frac{1}{4}$ S 9 BT.

Descend gradually over NE. slope.
 52.00 Leave timber, brs. NE. and SW. Enter nearly level land.
 55.50 Dim road, brs. NE. and SW.
 65.50 Wash, 10 lks. wide, course SE.
 70.00 Enter timber, brs. NE. and S. and gently rolling land.
 Ascend gradually over SW. slope, to
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 12 ins. in

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Chains.

the ground to bed rock, supported in a mound of stone for cor. of secs. 3, 4, 9 and 10, marked on brass cap,

T30N	R11W
S 4	S 3
S 9	S 10
1922	

from which,

A cedar, limb, 12 ins. in diam., brs. N. 15° E., 115 lks. dist., marked T30N R11W S3 BT.

A cedar, 26 ins. in diam., brs. S. 28½° E., 94 lks. dist., marked T30N R11W S10 BT.

A cedar limb, 8 ins. in diam., brs. S. 73° W., 130 lks. dist., marked T30N R11W S 9 BT.

A cedar, 6 ins. in diam., brs. N. 68° W., 95 lks. dist., marked T30N R11W S4 BT.

Land, rolling, nearly level and gently rolling.

Soil, rocky clay loam, 3rd rate.

Timber, cedar and pinyon.

Undergrowth, scrub oak and sagebrush.

40.00

N. 89° 51' E., on random line, bet. secs. 3 and 10.

Set temp. ¼ sec. cor.

80.06

Fall 5 lks. N. of the cor. of secs. 2, 3, 10 and 11.

Thence, S. 89° 53' W., on a true line, bet. secs. 3 and 10.

Over level land, thru. scattering timber and undergrowth.

1.50

Leave timber, enter sagebrush flat, brs. S. and NW.

6.50

Shallow wash, course S.

10.30

Trail, bears SE. and NW.

24.00

Leave sagebrush flat. Enter scattering timber, brs. N. and S. Continue over level land.

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 ¼ sec. cor., marked on brass cap,

¼ S	3
S 10	
1922	

from which,

A cedar, 16 ins. in diam., brs. N. 1° 30' E., 125 lks. dist., marked ¼ S 3 BT.

A cedar, 10 ins. in diam., brs. S. 37½° W., 99 lks. dist., marked ¼ S 10 BT.

Continue over level land, thru. scattering timber.

49.00

Leave timber, brs. N. and S. Enter sagebrush flat.

53.90

Road, brs. NE. and SW.

60.00

Leave sagebrush flat. Enter dense timber, brs. N. and S., and enter gently rolling land.

Ascend 55 ft., over NE. slope.

75.00

Top of hill.

Descend gradually over SW. slope, to

80.06

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

Land, level, and gently rolling.

Soil, rocky clay loam, 2nd and 3rd rate.

Timber, cedar and pinyon.

Undergrowth, scrub oak and sagebrush.

40.00

N. 0° 6' W., on a random line, bet. secs. 3 and 4.

Set temp. ¼ sec. cor.

79.96

Fall 5 lks. W. of the cor. of secs. 3, 4, 33 and 34 on N. bdy. of Tp., described in Book "D" of this group.

Thence,

S. 0° 4' E., on a true line, bet. secs. 3 and 4.

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

Descend gradually over SE. slope.

22.00

Ascend gradually over NE. slope, to

Survey of Subdivision lines of Township 30 North, Range 11 West. 47

Chains.

39.96 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 4 | S 3

1922

from which,

A cedar, 6 ins. in diam., brs. S. 12° E., 29 lks. dist., marked $\frac{1}{4}$ S 3 BT.

A cedar, 10 ins. in diam., brs. S. 26 $\frac{1}{2}$ ° W., 22 lks. dist., marked $\frac{1}{4}$ S 4 BT.

Ascend 45 ft., over NE. slope.
47.00 Low ridge, brs. SE. and NW.
Descend gradually over SW. and W. slopes, to
79.96 The cor. of secs. 3, 4, 9 and 10.
Land, gently rolling.
Soil, rocky clay loam, 2nd rate.
Timber, cedar and pinyon.
Undergrowth, scrub oak and sagebrush.

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

N. 0° 3' W., bet. secs. 32 and 33.

Over rolling land, thru. dense timber and undergrowth:

Descend gradually over W. slope, to

26.50 Descend 80 ft., over N. slope.

34.10 Wash, 30 lks. wide, course W.

Ascend 55 ft., over SW. slope.

38.00 Descend 16 ft., over NW. slope, to

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground to bed rock, deposit a stone, marked with a cross (x) at base of post, and raise a mound of stone around post, for $\frac{1}{4}$ sec. cor., marked on brass cap,

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

1922

No bearing trees available.

40.64 Wash, 30 lks. wide, course W.

Ascend 50 ft., over SW. and W. slopes.

50.00 Descend 70 ft., over W. and NW. slopes.

64.50 Wash, 20 lks. wide, course W.

Ascend 36 ft., over SW. slope.

68.00 Descend gradually over W. 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. 28, 29, 32 and 33, marked on brass cap,

T 30 N | R 11 W
S 29 | S 28

S 32 | S 33

1922

from which,

A cedar, 6 ins. in diam., brs. N. 61° E., 118 lks. dist., marked T 30 N R 11 W S 28 BT.

A cedar, 18 ins. in diam., brs. S. 35° E., 129 lks. dist., marked T 30 N R 11 W S 33 BT.

A cedar limb, 6 ins. in diam., brs. S. 54° W., 92 lks. dist., marked T 30 N R 11 W S 32 BT.

A cedar, 6 ins. in diam., brs. N. 49° W., 86 lks. dist., marked T 30 N R 11 W S 29 BT.

Land, rolling.

Soil, rocky, 3rd and 4th rate.

Timber, cedar and pinyon.

Undergrowth, black brush, scrub oak and cactus.

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Chains.

40.00 East, on a random line, bet. secs. 28 and 33.
 79.84 Set temp. $\frac{1}{4}$ sec. cor.
 Fall 2 lks. N. of the cor. of secs. 27, 28, 33 and 34.
 Thence,
 N. $89^{\circ}59'W.$, on a true line, bet. secs. 28 and 33.
 Over rolling land, thru. dense timber and scattering
 undergrowth.
 13.65 Descend gradually over NW. slope.
 Shallow draw, 20 lks. wide, course NW.
 Ascend gradually over E. slope.
 20.00 Low ridge, brs. N. and S.
 Descend gradually over W. slope.
 37.40 Head of shallow draw, course SW.
 Descend over SW. slope, to
 39.92 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,

$$\frac{1}{4} \begin{array}{l} S 28 \\ S 33 \\ 1922 \end{array}$$
 from which,
 A cedar, 18 ins. in diam., brs. N. $24^{\circ}W.$, 145
 lks. dist., marked $\frac{1}{4}S 28$ BT.
 A cedar, 14 ins. in diam., brs. S. $89^{\circ}W.$, 120
 lks. dist., marked $\frac{1}{4}S 33$ BT.
 Descend over SW. slope:
 45.75 Shallow draw, course SW.
 Continue gradual descent, over SW. slope, to
 54.70 Trail, brs. NE. and SW.
 60.00 Descend gradually over W. slope, to
 79.84 The cor. of secs. 28, 29, 32 and 33.
 Land, rolling.
 Soil, rocky, 3rd rate.
 Timber, cedar, pinyon and oak.
 Undergrowth, scrub oak and locust.
 Fair grass.

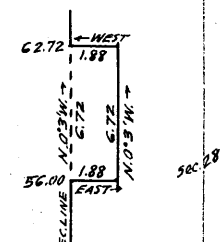
 N. $0^{\circ}3'W.$, bet. secs. 28 and 29.
 Over rolling land, thru. dense timber and undergrowth.
 Descend gradually over W. and NW. slopes, to
 20.80 Wash, 10 lks. wide, course W.
 Ascend 80 ft., over SW. slope.
 35.00 Descend 35 ft., over N. slope, to
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in
 the ground to bed rock, supported in a mound of stone,
 for $\frac{1}{4}$ sec. cor., marked on brass cap,

$$s29 | s28$$

 1922

from which,
 A cedar, 6 ins. in diam., brs. S. $40\frac{1}{2}^{\circ}E.$, 69
 lks. dist., marked $\frac{1}{4}S 28$ BT.
 A cedar, 16 ins. in diam., brs. N. $75\frac{1}{4}^{\circ}W.$, 82
 lks. dist., marked $\frac{1}{4}S 29$ BT.
 Descend 40 ft., over N. slope, to
 50.00 Ascend 30 ft., over SW. slope.
 54.38 Descend 14 ft., over NW. slope, to
 56.00 East, or right rim of Horse Spring Canyon, brs. NE. and SW.
 Enter mountainous land in canyon. Cliffs prevent chain-
 ing; therefore, measure by offset line, as follows:
 East, 1.88 chs. in sec. 28 to offset
 point in wash, 20 lks.
 wide, course NW.

Thence,
 N. $0^{\circ}3'W.$ 6.72 chs. parallel to sec. line
 over rolling bench land
 to offset point.
 Thence,
 West, 1.88 chs. returning to point on sec. line

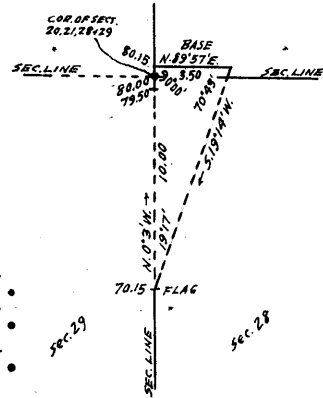


Survey of Subdivision lines of Township 30 North, Range 11 West. 19

Chains.

at 62.72 ch. station.
 59.00 (Approx.) Wash, 20 lks. wide at head of gulch, course NW.
 Ascend over cliffs, to
 62.72 Offset point at E. or right rim of Horse Spring Canyon, bearing NW. and SE. Leave canyon. Enter rolling land. Continue measurement on sec. line.
 Ascend 25 ft., over SW. slope.
 69.25 Descend 15 ft., over NW. slope, to
 70.15 East, or right rim of Horse Spring Canyon, brs. NE. and SW. Enter mountainous land in canyon. Cliffs prevent chaining. Triangulate as follows:

Set flag at this point.
 From a point ahead on sec. line, measure a Base N. 89° 57' E., 3.50 chs.
 From E. end of Base, the flag brs. S. 19° 14' W.
 From W. end of Base, the vertical angle to flag is + 5°.
 Dist. on sec. line = 70.15 chs. N. 0° 3' W.
 Dist. triangulated = 10.00 chs. N. 0° 3' W.
 Total distance, = 80.15 chs. N. 0° 3' W.
 Dist. by return measurement = 0.65 chs. S. 0° 3' E.
 79.50 chs. N. 0° 3' W.



75.00 (Approx.) Bottom of gulch, course W. about 175 ft. below 70.15 ch. station.
 Ascend about 120 ft., over precipitous S. slope and cliffs, to
 79.50 East, or right rim of Horse Spring Canyon, brs. E. and W. Leave canyon. Enter rolling land. Continue line and measurement by chaining.
 Descend slightly over W. slope, to
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 20, 21, 28 and 29, marked on brass cap,

T30N	R11W
S20	S21
S29	S28
1922	

- from which,
- A cedar limb, 4 ins. in diam., brs. N. 53 1/4° E., 47 lks. dist., marked BT.
 - A cedar, 20 ins. in diam., brs. S. 74 1/2° E., 146 lks. dist., marked T30N R11W S28 BT.
 - A cedar, 10 ins. in diam., brs. S. 89° W., 31 lks. dist., marked T30N R11W S29 BT.
 - A pinyon, 12 ins. in diam., brs. N. 60 1/2° W., 31 lks. dist., marked T30N R11W S 20 BT.

Land, rolling and mountainous.
 Soil, rocky, 3rd rate.
 Timber, cedar, pinyon and oak.
 Undergrowth, scrub oak and sagebrush.

40.00 S. 89° 59' E., on a random line, bet. secs. 21 and 28.
 Set temp. 1/4 sec. cor.
 80.02 Fall 12 lks. S. of the cor. of secs. 21, 22, 27 and 28. Thence,
 S. 89° 56' W., on a true line, bet. secs. 21 and 28.
 Over rolling land, thru, dense timber and undergrowth.
 Descend gradually over W. slope, to
 5.00 Shallow draw, course NW.
 Descend over NW. slope.
 18.00 Old road, brs. N. and S. in draw, course N.
 Ascend E. slope.
 35.00 Low ridge, brs. N. and S.
 Descend gradually, over W. slope, to

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50 Survey of Subdivision lines of Township 30 North Range 11 West.

Chains.

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 21
S 28
1922

from which,

A cedar, 18 ins. in diam., brs. N. 58° E., 66 lks. dist., marked $\frac{1}{4}$ S 21 BT.

A cedar, 14 ins. in diam., brs. S. 12° E., 40 lks. dist., marked $\frac{1}{4}$ S 28 BT.

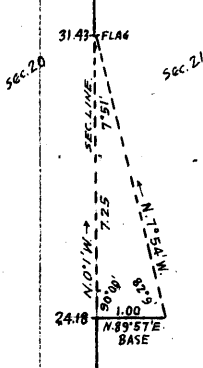
80.02 Descend gradually over W. slope, to The cor. of secs. 20, 21, 28 and 29. Land, rolling.

Soil, rocky, 3rd rate.

Timber, cedar, pinyon and oak.

Undergrowth, scrub oak, sagebrush and algerita.

24.18 N. 0° 3' W., bet. secs. 20 and 21. Over rolling land, thru. dense timber and undergrowth. Descend gradually over W. and NW. slopes, to East, or right rim of Horse Spring Canyon, brs. NE. and SW. Enter head of gulch, in canyon. Precipitous slopes prevent chaining. Triangulate as follows:



Measure a Base, N. 89° 57' E., 1.00 ch. Set flag ahead on sec. line, the vertical angle to which is 0°.

From E. end of Base, the flag brs. N. 7° 54' W.

From W. end of Base to point on sec. line in bottom of gulch is -43°.

Dist. on sec. line = 24.18 chs. N. 0° 3' W.
Dist. triangulated = 7.25 chs. N. 0° 3' W.

Total distance = 31.43 chs. N. 0° 3' W.

27.00 (Approx.) Bottom of gulch, course SW., near head, about 175 ft. below 24.18 ch. station.

Ascend about 175 ft., over precipitous SW. slope, to

31.43 Triangulation point at E. or right rim of Horse Spring Canyon, bearing NW. and SE. Leave canyon. Enter nearly level land. Continue line and measurement by chaining.

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,

$\frac{1}{4}$
S 20 | S 21
1922

from which,

A cedar, 12 ins. in diam., brs. N. 37° E., 68 lks. dist., marked $\frac{1}{4}$ S 21 BT.

A cedar, 12 ins. in diam., brs. S. 50° W., 88 lks. dist., marked $\frac{1}{4}$ S 20 BT.

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

80.00 Descend slightly over NW. slope, to

Set an iron post, 3 ft. long, 2 ins. in diam., 18 ins. in the ground to bed rock, supported in a mound of stone, for cor. of secs. 16, 17, 20 and 21, marked on brass cap,

T 30 N | R 11 W
S 17 | S 16
S 20 | S 21
1922

from which,

A cedar, 8 ins. in diam., brs. N. 17° E., 21 lks. dist., marked T 30 N R 11 W S 16 BT.

A cedar, 14 ins. in diam., brs. S. 83° E., 40 lks. dist., marked T 30 N R 11 W S 21 BT.

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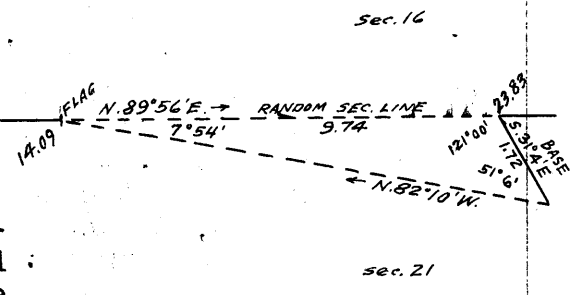
Chains.

A cedar, 20 ins. in diam., brs.S. 5°W., 49 lks.
 dist., marked T3ON R11W S20 BT.
 A cedar, 6 ins. in diam., brs.N.57°W. 36 lks.
 dist., marked T3ON R11W S17 BT.

Land, rolling, mountainous and nearly level.
 Soil, rocky, 3rd rate.
 Timber, cedar and pinyon.
 Undergrowth, scrub oak and buck brush.

14.09 N.89°56'E., on random line, bet. secs.16 and 21.
 West rim of canyon. Discontinue chaining, and triangulate
 across canyon as follows:

Set flag at this point.
 From a point ahead on random
 sec. line, measure a Base,
 S.31°4'E., 1.72 chs.
 From SE. end of Base, the flag
 brs.N.82°10'W.
 From NW. end of Base the verti-
 cal angle to flag is 0°, and
 to point on random sec. line
 in bottom of canyon is - 45°.



23.83 Dist. on random sec. line = 14.09 chs. N.89°56'E.
 Distance triangulated = 9.74 chs. N.89°56'E.
 Total distance, = 23.83 chs. N.89°56'E.
 Triangulation point at E. rim of canyon. Continue line
 and measurement by chaining.

40.00 Set temp. 1/4 sec. cor.
 79.90 Fall 2 lks. S. of the cor. of secs. 15, 16, 21 and 22.
 Thence,
 S.89°55'W., on a true line, bet. secs. 16 and 21.
 Over rolling land, thru. dense timber and scattering under-
 growth.

Descend 130 ft., over rocky NW. slope.
 13.04 Trail, brs. N.30°E. and S.30°W.
 13.80 Log and brush fence brs. N.30°E. and S.30°W.
 20.40 Wash, 10 lks. wide, course N.
 Ascend over NE. slope.
 27.00 Descend over NW. slope.
 39.00 Bend in wash, 20 lks. wide, course SW. from SE.
 Descend over SW. slope, to
 39.95 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 16
 S 21
 1922

from which,

A cedar, 20 ins. in diam., brs. N.5°W., 88 lks.
 dist., marked 1/4 S 16 BT.
 A cedar, 30 ins. in diam., brs. S.30°E., 78 lks
 dist., marked 1/4 S 21 BT.

Continue over rolling land, thru. dense timber and scat-
 tering undergrowth.
 Descend over SW. slope.

40.82 Trail, brs. NE. and SW.
 48.80 Road, brs. N.30°E. and S.30°W.
 49.04 NE. cor. of William Shanley's house, brs. S.33°W.
 Small corral, brs. S.20°W.
 49.21 Rail fence brs. N.30°E. and S.30°W.
 56.07 Triangulation point at E. or right rim of Canyon, bearing
 SE. and NW. Enter mountainous land in head of canyon,
 known as Dinner Pocket. Measurement across canyon by
 triangulation hereinbefore described.
 Descend about 330 ft., over precipitous SW. slope.
 61.00 (Approx.) Bottom of canyon, course NW.
 Ascend about 330 ft., over precipitous NE. slope, to

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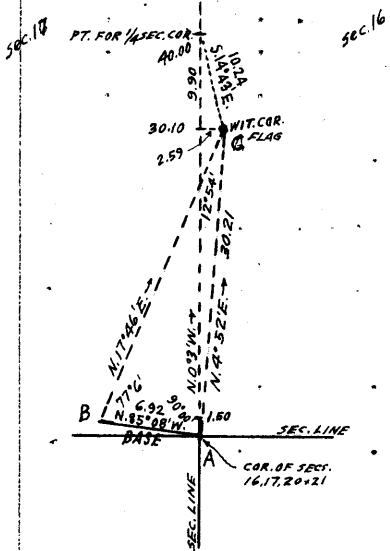
52 Survey of Subdivision lines of Township 30 North Range 11 West.

Chains.

- 65.81 Triangulation point at W. or left rim of canyon, brs. S. 80° E. and N. 80° W. Leave canyon. Enter nearly level land. Continue line and measurement by chaining. Descend slightly over NW. slope, to sec. cor. William Shanley's house, brs. S. 85° E.
- 79.90 The cor. of secs. 16, 17, 20 and 21. Land, rolling, mountainous and nearly level. Soil, clay loam and rocky, 2nd and 3rd rate. Timber, cedar and pinyon. Undergrowth, scrub oak, sagebrush and yucca.

N. 0° 3' W., bet. secs. 16 and 17.

- 1.50 Over nearly level land, thru. dense timber and undergrowth. Left rim of canyon, brs. E. and W. Enter mountainous land, scattering timber and undergrowth. The remainder of this line is practically impassable, and no point thereon is accessible; therefore select a point for witness cor. to the 1/4 sec. in the nearest accessible relation thereto, and triangulate to said witness cor. point, as described as follows, and as shown on the diagram hereon:



From cor. of secs. 16, 17, 20 and 21, indicated on diagram at "A", measure a Base N. 85° 08' W., 6.92 chs. to point "B."
Set flag at point for witness cor. to 1/4 sec. cor. indicated on diagram at "C."
Bearing "B-C" = N. 17° 46' E.
Bearing "A-C" = N. 4° 52' E.

Dist. "A-C" triangulated = 30.21 chs. N. 4° 52' E.
Lat. of "A-C" = 30.10 chs. North.
Dep. of "A-C" = 2.56 chs. East.

Dep. of sec. line in 30.10 chs. N. 0° 3' W. = 0.03 chs. W., which added to 2.56 chs. gives 2.59 chs. E. as the departure of "A-C" from the sec. line.

Point "C" is therefore 2.59 chs. E. from 30.10 ch. station on the sec. line, or 9.90 chs. S. and 2.60 chs. E. of the true point for 1/4 sec. cor.
The true bearing and distance from point for 1/4 sec. cor. to the witness cor. (C) are therefore S. 14° 43' E., 10.24 chs.

- 15.00 (Approx.) Bottom of canyon, course NW. Ascend over cliffs, facing SW.
- 30.10 Top of ascent. Point in cliffs bearing SE. and NE., facing SW. and NW.
At 2.59 chs. East herefrom, at point in canyon rim bearing NE. and SE.
Set an iron post, 3 ft. long, 1 in. in diam., 4 ins. in the ground to bed rock, supported in a mound of stone, for witness cor. to the 1/4 sec. cor., marked on brass cap,

WC 1/4

S17 | S16

1922

from which,

A cedar, 8 ins. in diam., brs. S. 53° E., 76 lks.

dist. marked WC 1/4 S 16 BT.

A cedar, 8 ins. in diam., brs. S. 37 1/2° W., 13 lks.

dist. marked WC 1/4 S 17 BT.

The measurement of the remainder of this sec. line is obtained by triangulation in the survey of line between

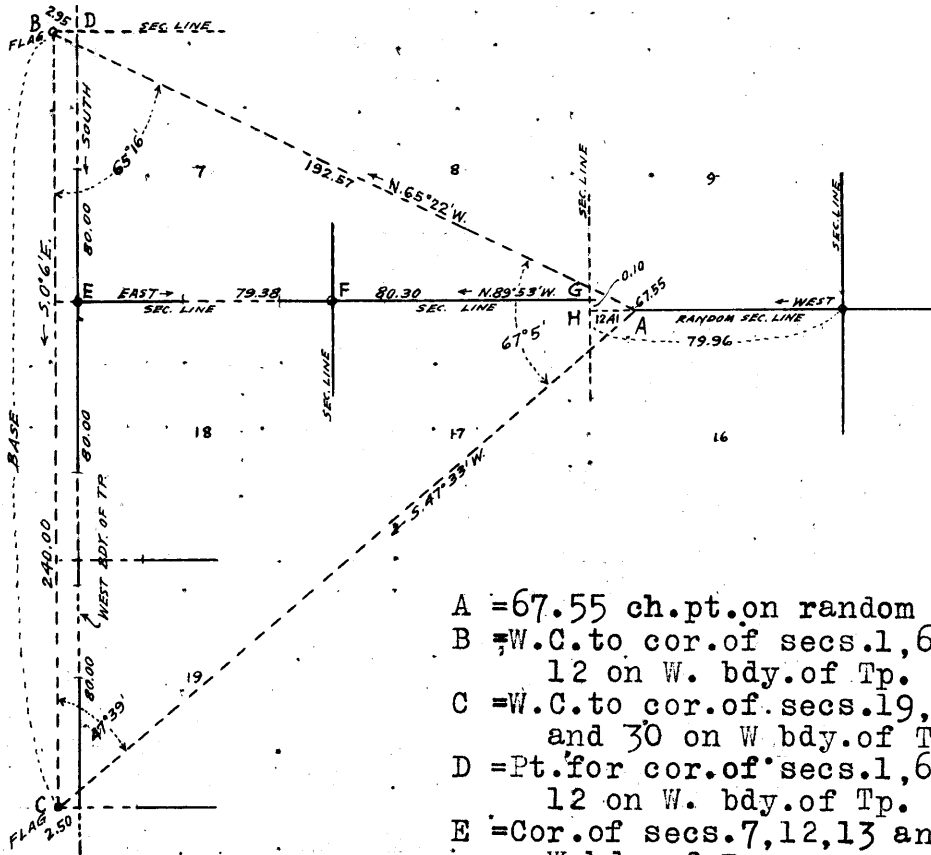
Survey of Subdivision lines of Township 30 North Range 11 West. 53 Chains.

secs. 8 and 17, as hereinafter described.
 Descend over cliffs, facing NW.
 55.00 (Approx.) Bottom of canyon, course W.
 Ascend over cliffs, facing SW.
 80.00 True point for cor. of secs. 8, 9, 16 and 17 on face of cliffs, where it is inaccessible; therefore, at point on sec. line, bet. secs. 8 and 17, at 2.20 chs. N. 89° 53' W., herefrom, establish witness cor., as described as follows:
 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground for witness cor. to the cor. of secs. 8, 9, 16 and 17, marked on brass cap,

T30N	R11W
S 8	S 9
WC	
S17	S16
1922	

from which,
 A cross (x) marked on face of cliff, brs. N. 33½° E., 24 lks. dist.
 A cross (x) marked on face of cliff brs. S. 83° E., 28 lks. dist.
 A cedar, 6 ins. in diam., brs. S. 4½° W., 8 lks. dist. marked WC T30N R11W S17 BT.
 A pinyon, 6 ins. in diam., brs. N. 19½° W., 38 lks. dist., marked T30N R11W S8 BT.
 Land, mountainous.
 Soil, rocky, 4th rate.
 Timber, cedar and pinyon.
 Undergrowth, scrub oak and sagebrush.

From cor. of secs. 9, 10, 15 and 16, West, on random line, bet. secs. 9 and 16.
 A random line East is impracticable, as the western extremity of this line falls on cliffs, and is impassable.
 40.00 Set temp. sec. cor.
 67.55 East, or left rim of Green Spring Canyon, brs. NW. and SE. Discontinue chaining owing to cliffs beyond this point, and triangulate as described as follows, and as shown on the accompanying diagram:



A = 67.55 ch. pt. on random line.
 B = W.C. to cor. of secs. 1, 6, 7 and 12 on W. bdy. of Tp.
 C = W.C. to cor. of secs. 19, 24, 25 and 30 on W. bdy. of Tp.
 D = Pt. for cor. of secs. 1, 6, 7 and 12 on W. bdy. of Tp.
 E = Cor. of secs. 7, 12, 13 and 18 on W. bdy. of Tp.
 F = Cor. of secs. 7, 8, 17 and 18.
 G = Pt. for cor. of secs. 8, 9, 16 & 17.

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Chains.

H. = Intersection of random line West, bet. secs. 9 & 16, with N. and S. line thru. point for cor. of secs. 8, 9, 16 and 17.

From 67.55 ch. station (A) on random line a flag (B) on W.C. to cor. of secs. 1, 6, 7 and 12 on W. bdy. of Tp., brs. N. 65° 22' W., and a flag (C) on W.C. to cor. of secs. 19, 24, 25 and 30 on W. bdy. of Tp. brs. S. 47° 33' W.

Flag (B) being 2.95 chs. W. of sec. cor. point (D) and flag (C) being 2.50 chs. W. of sec. cor. point the departure of the base (B-C) is therefore 2.95 chs. - 2.50 chs. = 0.45 chs. E.

The true bearing and length of Base (B-C) are therefore S. 0° 6' E., 240.00 chs.

By solution of the triangle (A-B-C) the length of (B-A) is 192.57 chs. S. 65° 22' E., the latitude of which is 80.26 chs. S., and the departure 175.04 chs. E.

A traverse from (B) East, 2.95 chs. to sec. cor. pt (D); thence S. 80.00 chs. to sec. cor. (E); thence East 79.38 chs. to sec. cor. (F); and thence S. 89° 53' E. to sec. cor. pt. (G) gives a latitude of 80.16 chs. S. and 162.63 chs. E.

The falling of the random line extended West from (A) to intersection (H) with N. and S. line thru. sec. cor. point (G) is therefore 80.26 chs. - 80.16 chs. = 0.10 chs. South.

The triangulated portion (A-H) of the random line is 175.04 chs. - 162.63 chs. = 12.41 chs.

Dist. on random sec. line = 67.55 chs. West.

Dist. triangulated = 12.41 chs. West.

Total distance, = 79.96 chs. West.

79.96 The random sec. line extended West, would therefore, at Fall 10 lks. S. of the true point for cor. of secs. 8, 9, 16 and 17.

The true course and length of sec. line, bet. secs. 9 and 16 are therefore N. 89° 56' W., 79.96 chs.

Return to the cor. of secs. 9, 10, 15 and 16.

Thence,

N. 89° 56' W., on true line, bet. secs. 9 and 16.

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

Ascend gradually over SE. slope.

10.00 Saddle in low ridge, bearing SE. and NE. Descend gradually over SW. slope.

19.00 Road, brs. NE. and SW.

24.67 Old road, brs. N. and S.

26.40 Shallow draw, 10 lks. wide, course SW. Continue gradual descent over S. slope, to

39.98 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,

$$\frac{1}{4} \frac{S \ 9}{S \ 16} \\ 1922$$

from which,

A cedar, 20 ins. in diam., brs. S. 21° E., 63 lks. dist., marked 1/4 S 16 BT.

A cedar, 20 ins. in diam., brs. N. 21° W., 73 lks. dist., marked 1/4 S 9 BT.

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

Descend gradually over SW. slope, to

65.00 Top of steep descent, brs. NW. and SE. Enter mountainous land.

Descend 53 ft., over SW. slope, to

67.55 Triangulation point at top of cliffs, bearing NW. and SE., facing SW., and forming East or left rim of Green Spring Canyon. Enter canyon. Measurement to sec. cor. point by triangulation, hereinbefore described.

Descend about 450 ft. to

79.96 The true point for cor. of secs. 8, 9, 16 and 17 on face of cliff. Witness cor. established at 2.20 chs. N. 89° 53' W.

Survey of Subdivision lines of Township 30 North, Range 11 West. 55

Chains.

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

From true point for cor. of secs. 8, 9, 16 and 17,
N.0°3'W., bet. secs. 8 and 9.
Over mountainous land in Green Spring Canyon, thru. scat-
tering timber and undergrowth.
The S. 1/4 of this line is impassable, owing to cliffs; there-
fore, set a flag ahead on sec. line at E. or left rim
of canyon; and triangulate measurement thereto, as
hereinafter described in notes of line bet. secs. 8 & 17.
Dist. triangulated on sec. line = 50.00 chs. N.0°3'W.
Dist. by return measurement = 10.00 chs. S.0°3'E.
Dist. by return measurement = 40.00 chs. N.0°3'W.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., on surface
rock, deposit a stone, marked with a cross (x) at base
of post, and raise a mound of stone around post for
1/4 sec. cor., marked on brass cap,

S 8 | S 9

1922

No bearing trees available.

Thence,
N.0°3'W., bet. secs. 8 and 9, continuing measurement, by
chaining.

50.00 Ascend 425 ft., over precipitous SW. slope, to
Triangulation point at top of cliffs, 60 ft. high, bearing
SE. and NW., facing SW., and forming E. or right rim
of Green Spring Canyon. Leave canyon, and enter roll-
ing land. Continue chaining.

Ascend 150 ft., over SW. and W. slopes.

70.00 Descend gradually over NW. 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,

T30N | R11W
S 5 | S 4
S 8 | S 9
1922

from which,

- A cedar, 14 ins. in diam., brs. N.58°E., 40
lks. dist., marked T30N R11W S4 BT.
- A cedar, 12 ins. in diam., brs. S.35°E., 125
lks. dist., marked T30N R11W S9 BT.
- A cedar, 6 ins. in diam., brs. S.80°W., 33
lks. dist., marked T30N R11W S8 BT.
- A cedar, 12 ins. in diam., brs. N.74°W., 40
lks. dist., marked T30N R11W S5 BT.

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

40.00 S.89° 56'E., on random line, bet. secs. 4 and 9.
79+70 Set temp. 1/4 sec. cor.
Fall 18 lks. S. of the cor. of secs. 3, 4, 9 and 10.

Thence,
S.89°56'W., on a true line, bet. secs. 4 and 9.
Over gently rolling land, thru. dense timber and under-
growth:

Descend 15 ft., over W. slope.

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56 Survey of Subdivision lines of Township 30 North, Range 11 West.

Chains.

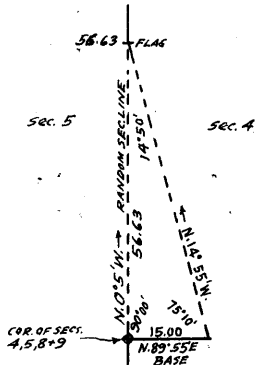
- 5.00 Ascend 100 ft., over NE.slope.
- 35.00 Low flat topped ridge, brs.SE. and NW.
Descend gradually over SW.slope, to
- 39.85 Set an iron post, 3 ft.long, 1 in. in diam., 20 ins.in
the ground to bed rock, supported in a mound of stone,
for $\frac{1}{4}$ sec.cor., marked on brass cap,

$\frac{1}{4}$ S 4
 S 9
 1922

from which,

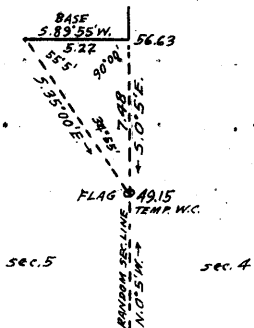
- A cedar limb, 6 ins. in diam., brs.N.2°E., 210
lks.dist., marked $\frac{1}{4}$ S 4 BT.
- A cedar, 12 ins. in diam., brs.S.60°E., 33
lks.dist., marked $\frac{1}{4}$ S 9 BT.
- Continue over gently rolling land, thru.dense timber and
undergrowth.
- 65.00 Descend gradually over SW.slope, to
Enter rolling land.
- 79.70 Descend 92 ft., over NW.slope, to
The cor.of secs. 4, 5, 8 and 9.
Land, gently rolling and rolling.
Soil, rocky, 3rd rate.
Timber, cedar and pinyon.
Undergrowth, black brush, scrub oak and cactus.

- 2.95 N.0°5'W., on random line, bet. secs. 4 and 5.
East, or left rim of Green Spring Canyon. Beyond this
point, the random line passes over precipitous slopes
and cliffs, and chaining is impracticable; therefore,
triangulate as described as follows:



- Set a flag ahead on random sec.
line at canyon rim, the vertical
angle to which is 0°.
- From the cor.of secs.4, 5, 8 and 9,
measure a Base N.89°55'E., 15.00
chs.
- From E.end of Base the flag brs.
N.14°55'W.
- Dist. triangulated=56.63 chs.N.0°
5'W.

From the triangulation point at 56.63 ch.station on ran-
dom line, it is impracticable to chain measurement
S.0°5'E., toward point for $\frac{1}{4}$ sec.cor.; therefore, trian-
gulate, as follows:



- Set flag on random sec.line.
- From 56.63 ch.station, measure a
Base S.89° 55' W., 5.22 chs.
- From W. end of Base the flag bears
S. 35° 00' E.
- From E. end of Base the vertical
angle to flag is -42°.
- Dist. by first triangulation
= 56.63 chs.N.0°5'W.
- Dist. by second " = 7.48 " S.0°5'E.
- 49.15 " N.0°5'W.

- 40.00 Point for $\frac{1}{4}$ sec. cor. on face of cliffs where it is
inaccessible.
- 49.15 Triangulation point. This is the nearest accessible
point to the $\frac{1}{4}$ sec. cor. point, therefore set temp.
W. C. here. Continue line and measurement by triangu-
lation to
- 56.63 Triangulation point. Continue line and measurement by
chaining to
- 79.80 Fall 12 lks. E. of the cor. of secs. 4, 5, 32 and 33, on
the N. bdy. of the Tp., described in Book "D" of
this group

Survey of the Subdivision of T. 30 N., R. 11 W.

- Chains Thence
 S. 0° 10' E., on a true line bet. secs. 4 and 5.
 Over rolling land, through dense timber and undergrowth.
 Desc. gradually over SW. slope to
 23.17 Triangulation point at E. or left rim of Green Spring
 Canyon, bearing E. and W. Enter mountainous land in
 canyon. Discontinue chaining. Measurement to witness
 cor. by triangulation as hereinbefore described.
 Desc. 445 ft. over cliffs to
 30.65 Set an iron post, 3 ft. long, 1 in. in diam., on surface
 rock, supported in a mound of stone, for witness cor.
 to the $\frac{1}{4}$ sec. cor. marked on brass cap

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

- No bearing trees available.
 Raise a mound of stone, 4 ft. base, 2 ft. high W. of cor.
 Continue line and measurement by triangulation. Desc.
 over precipitous S. slope to
 33.00 (Approx.) Bottom of gulch, 50 lks. wide, course W. Asc.
 over cliffs.
 39.80 Point for $\frac{1}{4}$ sec. cor. falls on face of cliff where it is
 inaccessible. Desc. over cliffs.
 55.00 (Approx.) Bottom of gulch, course NW. Asc. over cliffs.
 76.85 E. or left rim of Green Spring Canyon brs. NE. and W.
 Leave canyon. Enter rolling land. Continue line and
 measurement by chaining.
 Asc. gradually over NW. slope to
 79.80 The cor. of secs. 4, 5, 8 and 9.
 Land; rolling and mountainous.
 Soil; rocky, 4th rate.
 Timber; cedar and pinyon.
 Undergrowth; sagebrush, scrub oak and blackbrush.

- From the cor. of secs. 5, 6, 31 and 32 on S. bdy. of Tp.
 hereinbefore described.
 N. 0° 3' W., bet. secs. 31 and 32.
 Over rolling land, through dense timber and undergrowth.
 Desc. 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

$\frac{1}{4}$
 S 31 | S 32
 1923

- From which,
 A pinyon, 6 ins. in diam., bears N. 82 $\frac{1}{4}$ ° E., 104
 lks. dist., marked $\frac{1}{4}$ S 32 B T.
 A pinyon, 8 ins. in diam., bears S. 24° W., 81 lks.
 dist., marked $\frac{1}{4}$ S 31 B T.
 Desc. gradually over NE. slope.
 54.00 Rim of gulch, brs. NE. & SW. Enter mountainous land.
 Desc. 126 ft. over steep NW. slope.
 57.00 Wash, 30 lks. wide, in bottom of gulch, course NE. Asc.
 166 ft. over steep SE. slope to
 59.10 Rim of gulch, brs. NE. and SW. Leave gulch. Enter roll-
 ing land. Asc. 65 ft. over SE. slope
 70.00 Desc. gradually over NE. slope to.
 74.00 Edge of dry lake bed, brs. NW. and E. Desc. 40 ft. across
 lake bed to
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins.
 in the ground for cor. of secs. 29, 30, 31 and 32,
 marked on brass cap

BOOK 3644

Survey of the Subdivision of T. 30 N., R. 11 W.

Chains

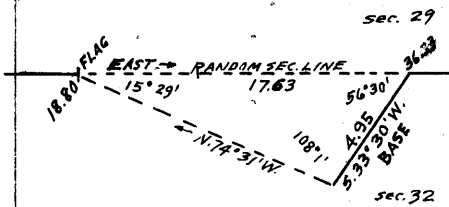
T 30 N R 11 W
 S 30 | S 29
 S 31 | S 32
 1923

From which

- A cedar, 20 ins. in diam., bears N. $84\frac{1}{2}^\circ$ E., 289 lks. dist., marked T 30 N R 11 W S 29 B.T.
- A cedar, 30 ins. in diam., bears S. $79\frac{1}{2}^\circ$ E., 388 lks. dist., marked T 30 N R 11 W S 32 B.T.
- A cedar, 12 ins. in diam., bears S. $73\frac{1}{2}^\circ$ W., 204 lks. dist., marked T 30 N R 11 W S 31 B.T.
- A cedar, 14 ins. in diam., bears N. $71\frac{1}{2}^\circ$ W., 162 lks. dist., marked T 30 N R 11 W S 30 B.T.

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

18.80 East, on random line, bet. secs. 29 and 32.
 W. rim of canyon. Discontinue chaining owing to precipitous descent, and triangulate to point on random line in bottom of canyon as described as follows:

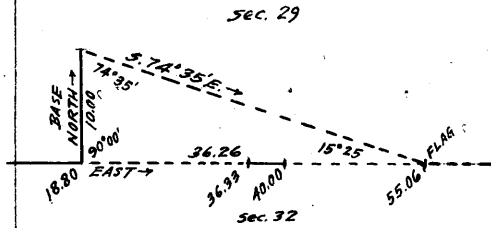


Set flag at this point. From a point ahead on random line in bottom of canyon, measure a Base S. $33^\circ 30'$ W., 4.95 chs. From SW. end of Base the flag bears N. $74^\circ 31'$ W. From NE. end of Base the vertical angle to flag is $+41^\circ$.

Dist. on random sec. line = 18.80 chs. East.
 Dist. triangulated = 17.63 " "
 Total dist. = 36.43 chs. East.

36.43 Triangulation point. Continue line and measurement by chaining.

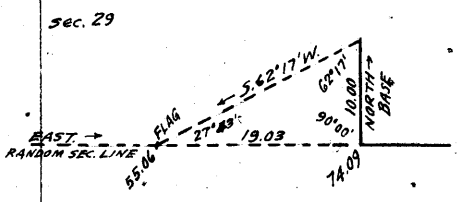
40.00 Set temp. $\frac{1}{4}$ sec. cor. Discontinue chaining owing to precipitous slopes ahead, and triangulate as described as follows:



Set flag ahead on random sec. line on spur sloping NW. From 18.80 ch. station measure a Base North 10.00 chs. From N. end of Base the flag bears S. $74^\circ 35'$ E. From S. end of Base the vertical angle to flag is 0° .

Dist. on random sec. line = 18.80 chs. East.
 Dist. triangulated = 36.26 " "
 Total dist. = 55.06 chs. East.

55.06 Triangulation point. Beyond this point the random line crosses a gulch the precipitous sides of which prevent chaining, therefore triangulate as follows:



Leave flag at 55.06 ch. station. From point ahead on random sec. line measure a Base North 10.00 chs. From N. end of Base the flag brs. S. $62^\circ 17'$ W. From S. end of Base the vertical angle to flag is 0° , and to point on random line in bottom of gulch is -28° .

Dist. on random sec. line = 55.06 chs. East.
 Dist. triangulated = 19.03 " "
 Total dist. = 74.09 chs. East.

74.09 Triangulation point on E. rim of canyon. Continue line and measurement by chaining.

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

Survey of the Subdivision of T. 30 N., R. 11 W.

- Chains Thence
 West, on a true line bet. secs. 29 and 32.
 Over rolling land, through scattering timber and undergrowth.
 Desc. 40 ft. over W. slope to
 5.81 Triangulation point at East or right rim of Horse Spring Canyon, bears SE. and NW. Discontinue chaining. Enter mountainous land in canyon. Measurement by triangulation as hereinbefore described.
 Desc. about 315 ft. over precipitous SW. slope to
 15.00 (Approx.) Bottom of gulch, course NW. Asc. about 315 ft. over precipitous NE. slope to
 24.84 Triangulation point at top of spur, slopes NW. Continue measurement by triangulation. Desc. about 950 ft. over precipitous W. slope to
 39.95 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap

$\frac{1}{4}$ $\frac{S\ 29}{S\ 32}$
 1923

From which,

A pinyon, 6 ins. in diam., bears N. 53° W., 155 lks. dist., marked S 29 B T.

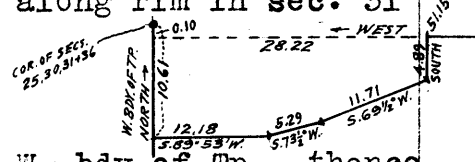
A pinyon, 14 ins. in diam., bears S. 82° E., 112 lks. dist., marked $\frac{1}{4}$ S 32 B T.

Continue line and measurement by chaining. Desc. slightly over W. slope to

- 41.00 Small wash, course NW. Desc. 65 ft. over NW. slope to
 43.47 Triangulation point in bottom of Horse Spring Canyon, 50 lks. wide, course N.
 Discontinue chaining. Measurement to W. rim of canyon by triangulation hereinbefore described. Asc. about 1000 ft. over precipitous E. slope to
 61.10 Triangulation point at west or left rim of Horse Spring Canyon, bears N. and S. Leave canyon. Continue line and measurement by chaining. Enter rolling land, dense timber and undergrowth. Asc. gradually over SE. slope.
 66.50 Desc. gradually over SW. slope to
 71.40 E. edge of dry lake bed, bears NW. and S. Desc. slightly across lake bed to
 79.90 The cor. of secs. 29, 30, 31 and 32.
 Land; rolling and mountainous.
 Soil; rocky, 4th rate.
 Timber; cedar and pinyon.
 Undergrowth; sagebrush, oak, black brush, willow and catclaw.

- West, on a random line bet. secs. 30 and 31.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 51.15 Rim of impassable cliffs. Traverse along rim in sec. 31 as follows:

South 4.89 chs.
 S. 69 $\frac{1}{2}$ ° W., 11.71 chs.
 S. 73 $\frac{3}{4}$ ° W., 5.29 chs.
 S. 89° 53' W., 12.18 chs. to W. bdy. of Tp., thence
 North 10.61 chs. along W. bdy. to cor. of
 secs. 25, 30, 31 & 36.



The latitude of the above described traverse is 10 lks. N., and the departure is 28.22 chs. W.

Dist. on random sec. line	=	51.15 chs. West.
Dist. by traverse	=	28.22 " "
Total dist.	=	79.37 chs. West.

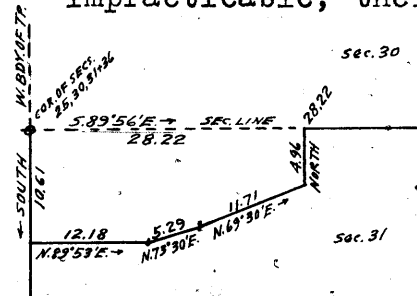
- The random sec. line extended West would therefore at
 79.37 Fall 10 lks. S. of the cor. of secs. 25, 30, 31 and 36, on W. bdy. of Tp., hereinbefore described.

Survey of the Subdivision of T. 30 N., R. 11 W.

Chains

Thence

S. 89° 56' E., on a true line bet. secs. 30 and 31. Over mountainous land, through scattering timber and undergrowth. Cliffs render chaining on the sec. line impracticable, therefore traverse as follows:



From the cor. of secs. 25, 30, 31 & 36.

South, 10.61 chs. along W. bdy. of Tp.

N. 89° 53' E., 12.18 chs. in sec. 31

N. 73° 30' E., 5.29 " " " "

N. 69° 30' E., 11.71 " " " "

North; 4.96 " " " "

to

point on true sec. line at

28.22 Top of cliffs bearing NE. and S. Leave mountainous and enter gently rolling bench land, dense timber and undergrowth. Asc. gradually over NW. slope to

39.37 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 30
S 31
1923

From which,

A cedar, 10 ins. in diam., bears N. 35 1/2° E., 237 lks. dist., marked 1/4 S 30 B T.

A cedar, 12 ins. in diam., bears S. 70 3/4° E., 249 lks. dist., marked 1/4 S 31 B T.

Continue over gently rolling land thru dense timber and undergrowth.

Desc. gradually over N. and NE. slope.

74.40 Enter rolling land. Desc. 50 ft. over E. slope to

77.70 W. edge of lake bed, bears NE. and S. Desc. slightly over lake bed to

79.37 The cor. of secs. 29, 30, 31 and 32, in dry lake bed. Land; mountainous and gently rolling.

Soil; rocky, 4th rate.

Timber; cedar and pinyon.

Undergrowth; sagebrush and scrub oak.

N. 0° 3' W., bet. secs. 29 and 30.

Over rolling land in dry lake bed, through dense timber and undergrowth.

1.50 Edge of lake bed, bears NE. and SW. Leave lake bed.

Asc. 40 ft. over SE. slope to

5.00 Thence over gently rolling land. Desc. gradually over E. and NE. slopes to

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

1/4 S 30 | S 29
1923

From which,

A cedar, 14 ins. in diam., bears S. 40° E., 46 lks. dist., marked 1/4 S 29 B T.

A cedar, 8 ins. in diam., bears S. 16 1/4° W., 101 lks. dist., marked 1/4 S 30 B T.

This cor. is at top of cliff, 300 ft. high, bearing NE. and SW., facing NW. It is impracticable to chain measurement on sec. line beyond this point, owing to precipitous slopes, therefore triangulate as described as follows:

Survey of the Subdivision of T. 30 N., R. 11 W.

Chains

No point in the N. $\frac{1}{2}$ of this line being visible, set flag N. $0^{\circ} 3' W.$, on line bet. secs. 19 and 20; the vertical angle to which is -19°

From $\frac{1}{4}$ sec. cor. of secs. 29 and 30, measure a Base N. $48^{\circ} 26' E.$, 14.56 chs.

From NE. end of Base the flag brs. N. $8^{\circ} 52' W.$

Dist. on sec. line = 40.00 chs. N. $0^{\circ} 3' W.$

Dist. triangulated = 79.94 "

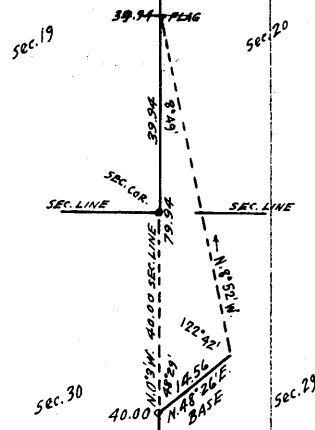
Total dist. = 119.94 chs. N. $0^{\circ} 3' W.$

Dist. bet. secs. 29 & 30 = 80.00 "

Dist. bet. secs. 19 & 20 = 39.94 chs. N. $0^{\circ} 3' W.$,

therefore make return measurement by chaining 39.94 chs. S. $0^{\circ} 3' E.$, 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. 19, 20, 29 and 30, marked on brass cap



T 30 N R 11 W.			
S	19	S	20
S	30	S	29
1922			

From which,

A pinyon, 10 ins. in diam., bears N. $65\frac{1}{2}^{\circ} E.$, 85 lks. dist., marked T 30 N R 11 W S 20 B T.

A pinyon, 8 ins. in diam., bears S. $81\frac{1}{2}^{\circ} E.$, 65 lks. dist., marked T 30 N R 11 W S 29 B T.

A pinyon, 4 ins. in diam., bears S. $79^{\circ} W.$, 55 lks. dist., marked B T.

A pinyon, 8 ins. in diam., brs. N. $14^{\circ} W.$, 16 lks. dist., mkd. T 30 N R 11 W S 19 B T.

Land; rolling and mountainous.

Soil; rocky, 4th rate.

Timber; cedar and pinyon.

Undergrowth; scrub oak and sage brush.

40.00 East, on random line bet. secs. 20 and 29. Set temp. $\frac{1}{4}$ sec. cor. and flag for triangulation.

40.28 Beyond this point precipitous ascent over cliffs renders chaining impracticable, therefore triangulate as described as follows:

Flag on cor. of secs. 20, 21, 28 and 29, brs. East with vertical angle thereto of $+38^{\circ}$

From said sec. cor. measure a Base S. $0^{\circ} 3' E.$, 30.00 chs. along sec. line bet. secs. 28 and 29.

From SE. end of Base flag at temp. $\frac{1}{4}$ sec. cor. of secs. 20 & 29 brs. N. $53^{\circ} 24\frac{1}{2}' W.$

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

Dist. triangulated = 40.38 "

Total length of sec. line = 80.38 chs. East.

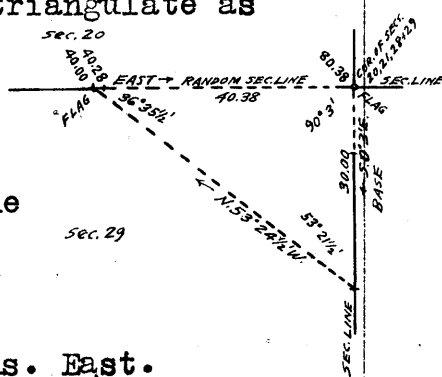
80.38 Intersect the cor. of secs. 20, 21, 28 and 29. Thence

West, on a true line bet. secs. 20 and 29.

Over rolling land, through dense timber and undergrowth. Chain measurement to rim. Desc. slightly over W. slope to

1.00 East or right rim of Horse Spring Canyon, brs. NW. and SE., turning to East at about 50 lks. SE. Discontinue chaining. Measurement to bottom of canyon by triangulation hereinbefore described. Desc. about 2000 ft. over cliffs to

40.10 Wash, 30 lks. wide, in bottom of Horse Spring Canyon, course N. Horse Spring is located about 20 chs. down wash.



BOOK 3644

Survey of the Subdivision of T. 30 N., R. 11 W.

Chains Asc. slightly over E. slope to
40.19 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 20
S 29
1922

From which,

An oak, 8 ins. in diam., bears N. 18° W., 14 lks. dist., marked $\frac{1}{4}$ S 20 B T.

An oak, 10 ins. in diam., bears S. 42° E., 23 lks. dist., marked $\frac{1}{4}$ S 29 B T.

Ascend 600 ft. over steep E. slope to
60.00 Spur, slopes N., forming W. rim of Horse Spring Canyon. Leave canyon. Desc. 90 ft. over W. slope.
64.00 Head of gulch, course N. Asc. 132 ft. over NE. slope.
68.00 Spur, slopes NW. Desc. 220 ft. over W. slope.
76.50 Wash, 20 lks. wide, in gulch, course N. Asc. 50 ft. over NE. slope.
77.40 Point of spur, slopes N. Desc. 64 ft. over NW. slope to
80.38 The cor. of secs. 19, 20, 29 and 30.

Land; mountainous.

Soil; rocky, 4th rate.

Timber; cedar, oak and pinyon.

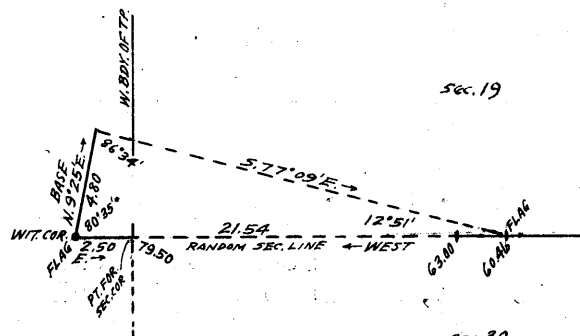
Undergrowth; scrub oak and sage brush.

West, on random line, bet. secs. 19 and 30.

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

60.46 Set flag for triangulation.

63.00 Top of cliffs, bearing N. and S. Discontinue chaining owing to cliffs and precipitous slopes beyond this point, and triangulate as described as follows:



A flag on the W. C. to cor. of secs. 19, 24, 25 & 30 bears West.

This W. C. is on W. rim of gulch, at a point 2.50 chs. W. from true point for cor. of secs. 19, 24, 25 & 30 on W. bdy. of Tp.

From said W. C. measure a Base N. 9° 25' E., 4.80 chs. along rim of gulch.

From NE. end of Base the flag at 60.46 ch. station on random line brs. S. 77° 09' E.

Dist. on random sec. line = 60.46 chs. West.

Dist. triangulated = 21.54 " "

Total dist. to W. C. = 82.00 chs. West.

Dist. W. C. to cor. point = 2.50 chs. East.

Total length of sec. line = 79.50 chs. West.

79.50 Intersect the true point for cor. of secs. 19, 24, 25 & 30, on W. bdy. of Tp. hereinbefore described.

Thence

East, on true line, bet. secs. 19 and 30.

Over mountainous land, thru scattering timber and undergrowth. Measurement of 16.50 chs. E. from cor. point by triangulation hereinbefore described.

Desc. about 35 ft. over steep E. slope to

1.00 (Approx.) Bottom of gulch course N. Asc. about 100 ft. over W. slope to

4.00 (Approx.) E. rim of gulch brs. N. and S. Thence over rolling point of bench projecting N.

10.00 (Approx.) W. rim of gulch, brs. N. and S. Desc. about 100 ft. over E. slope.

13.50 (Approx.) Bottom of gulch, course N. Asc. about 150 ft. over precipitous W. slope to

Survey of the Subdivision of T. 30 N., R. 11 W.

- Chains
- 16.50 E. rim of gulch, bears N. and S. Leave gulch. Continue line and measurement by chaining. Asc. gradually over W. slope to
- 19.04 Triangulation point on spur sloping N. Continue chaining Desc. 95 ft. over NE. slope.
- 29.86 Wash, 20 lks. wide, course NW. Asc. 165 ft. over NW. slope to
- 35.50 Wash, 20 lks. wide, course NW. Asc. 20 ft. over W. slope to
- 39.50 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap

$\frac{1}{4}$ $\frac{S}{S}$ $\frac{19}{30}$
 1922

From which,

- A pinyon, 10 ins. in diam., bears N. $28\frac{3}{4}^{\circ}$ E., 73 lks. dist., marked $\frac{1}{4}$ S 19 B T.
- A pinyon, 8 ins. in diam., bears S. $64\frac{1}{2}^{\circ}$ E., 46 lks. dist., marked $\frac{1}{4}$ S 30 B T.

- Ascend slightly over W. slope.
- 40.25 Spur, slopes N. 20° W. Desc. 77 ft. over NE. slope.
- 44.08 Head of gulch, course NW. Asc. 37 ft. over NW. slope
- 48.00 Spur, slopes N. The point of same brs. N. 2 chs. Desc. 110 ft. over NE. slope.
- 52.70 Bottom of gulch, 30 lks. wide, course N. 20° W. Asc. 545 ft. over steep broken NW. slope to
- 79.50 The cor. of secs. 19, 20, 29 and 30.
Land; mountainous.
Soil; rocky, 4th rate.
Timber; cedar and pinyon.
Undergrowth; scrub oak and sage brush.

N. 0° 3' W., bet. secs. 19 and 20.
Over mountainous land, through scattering timber and undergrowth.

- Desc. 205 ft. over NW. slope.
- 8.90 Bottom of gulch, 30 lks. wide, course NW. Asc. 75 ft. over SW. slope.
- 11.00 Spur, slopes NW. Desc. 165 ft. over NE. slope.
- 17.35 Wash, 10 lks. wide, course NW. Asc. 11 ft. over SW. slope
- 18.35 Spur, slopes NW. Desc. 235 ft. over N. slope to
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap

$\frac{1}{4}$
 S 19 | S 20
 1922

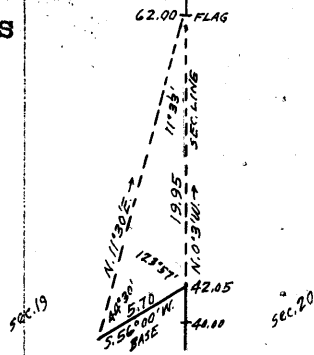
From which,

- A pinyon, 8 ins. in diam., bears N. $75\frac{1}{4}^{\circ}$ E., 39 lks. dist., marked $\frac{1}{4}$ S 20 B T.
- A pinyon, 12 ins. in diam., bears S. $58\frac{1}{2}^{\circ}$ E., 15 lks. dist., marked $\frac{1}{4}$ S 19 B T.

- Desc. 41 ft. over N. slope to canyon rim.
- 41.85 Trail, bears E. and W.
- 42.05 South or left rim of Horse Spring Canyon brs. E. and W. Discontinue chaining owing to precipitous slopes in canyon.
Triangulate measurement of sec. line across canyon as described as follows:
Measure a Base, S. 56° 00' W., 5.70 chs.
Set flag ahead on sec. line at N. rim of canyon, the vertical angle to which is -2° .

Survey of the Subdivision of T. 30 N., R. 11 W.

Chains



From SW. end of Base the flag
brs. N. $11^{\circ} 30'$ E.
From NE. end of Base the verti-
cal angle to point ahead on
sec. line in bottom of canyon
is -21° .

Dist. on sec. line = 42.05 chs. N. $0^{\circ} 3'$ W.
Dist. triangulated 19.95 " "
Total dist. = 62.00 chs. N. $0^{\circ} 3'$ W.

- 50.00 (Approx.) Wash, 30 lks. wide, in bottom of Horse Spring Canyon, course W., about 200 ft. below 42.05 ch. station.
Asc. about 150 ft. over S. slope to.
62.00 Triangulation point at North or right rim of Horse Spring Canyon bearing E. and W. Continue line and measurement by chaining. Asc. 17 ft. over S. slope.
65.70 Spur, slopes W. Desc. 50 ft. over N. slope.
74.20 Bottom of gulch, 20 lks. wide, course W. Asc. 70 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. 17, 18, 19 and 20, marked on brass cap

T 30 N R 11 W
S 18 | S 17
S 19 | S 20
1922

From which,

- A cedar, 6 ins. in diam., bears N. $13\frac{1}{4}^{\circ}$ E., 213 lks. dist., marked T 30 N R 11 W S 17 B T.
A cedar, 10 ins. in diam., bears S. $88\frac{1}{2}^{\circ}$ E., 114 lks. dist., marked T 30 N R 11 W S 20 B T.
A cedar, 10 ins. in diam., bears S. $72\frac{1}{4}^{\circ}$ W., 26 lks. dist., marked T 30 N R 11 W S 19 B T.
A cedar, 4 ins. in diam., bears N. $10\frac{1}{4}^{\circ}$ W., 40 lks. dist., marked B T.

Land; mountainous.

Soil; rocky, 4th rate.

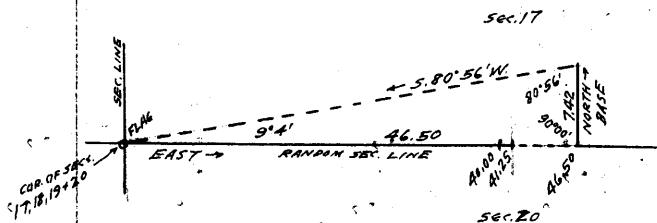
Timber; cedar and pinyon.

Undergrowth; scrub oak and sagebrush.

East, on random line, bet. secs. 17 and 20.

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

41.25 Foot of cliffs bearing N. and S. Discontinue chaining owing to precipitous ascent over cliffs. Triangulate as described as follows;



Set flag on the cor.
of secs. 17, 18, 19
and 20.

From a point ahead on
random sec. line at
top of cliffs,
measure a base,
North, 7.42 chs.

From N. end of Base the flag brs. S. $80^{\circ} 56'$ W.

From S. end of Base the vertical angle to flag is
 $-28\frac{1}{2}^{\circ}$ and to point on random line at foot of
cliffs about 5 chs. W. is -48° .

Distance triangulated = 46.50 chs. East.

46.50 Triangulation point. Continue line and measurement by chaining.

80.18 Intersect the cor. of secs. 16, 17, 20 and 21.

Thence

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

Over nearly level land, near rim of canyon, thru dense timber and undergrowth.

Desc. slightly over NW. slope to.

Survey of the Subdivision of T. 30 N., R. 11 W.

Chains

- 31.80 Leave nearly level and enter mountainous land, scattering timber and undergrowth.
- Desc. 35 ft. over W. slope to
- 33.68 Triangulation point at top of cliff bearing N. and S. facing W. and forming East or left rim of Green Spring Canyon. Discontinue chaining. Measurement to foot of cliffs by triangulation hereinbefore described. Desc. about 375 ft. over W. face of cliffs to
- 38.93 Foot of cliffs, bearing N. and S. Leave cliffs. Continue line and measurement by chaining. Desc. 30 ft. over steep W. slope to
- 40.09 Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground to bed rock, deposit a stone marked with a cross (X) at base of post and raise a mound of stone around post, for $\frac{1}{4}$ sec. cor. marked on brass cap

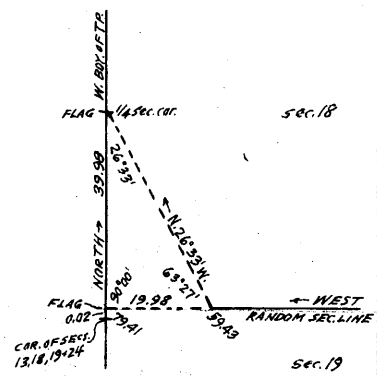
$\frac{1}{4}$ $\frac{S\ 17}{S\ 20}$
1922

No bearing trees available.

- Desc. 1250 ft. over W. slope to sec. cor.
- 72.18 Trail, bears N. and S.
- 80.18 The cor. of secs. 17, 18, 19 and 20.
- Land; nearly level and mountainous.
- Soil; rocky, 4th rate.
- Timber; cedar and pinyon.
- Undergrowth; scrub oak and sagebrush.

West, on random line bet. secs. 18 and 19.

- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 59.43 Top of cliffs, bearing NE. and SE. Discontinue chaining, owing to precipitous descent over cliff. Triangulate as described as follows:
A flag at $\frac{1}{4}$ sec. cor. of secs. 13 & 18 on W. bdy. of Tp. brs. N. $26^{\circ} 33'$ W.
Another flag at a point 2 lks. N. of the cor. of secs. 13, 18, 19 & 24 on W. bdy. of Tp. bears West with a vertical angle thereto of -28° .
The base for this triangulation between the flags on W. bdy. of Tp. is therefore North, 39.98 chs.



Dist. on random sec. line = 59.43 chs. West.
Dist. triangulated = 19.98 " "
Total length of sec. line = 79.41 chs. West.

- 79.41 Fall 2 lks. N. of the cor. of secs. 13, 18, 19 & 24, on W. bdy. of Tp., hereinbefore described.
- Thence N. $89^{\circ} 59'$ E., on true line, bet. secs. 18 and 19.
- Over rolling land at junction of the bottoms of Green Spring and Horse Spring Canyons, thru scattering timber and undergrowth. Chain measurement to foot of cliffs. Asc. 50 ft. over W. slope to
- 10.25 Foot of cliffs, bearing NE. and SE. Discontinue chaining. Measurement to top of cliffs by triangulation hereinbefore described. Enter mountainous land. Asc. about 650 ft. to
- 19.98 Triangulation point at top of cliffs bearing NE. and SE. Continue line and measurement by chaining. Ascend 75 ft. over W. slope to
- 39.41 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 3644

Survey of the Subdivision of T. 30 N., R. 11 W.

Chains

$$\frac{1}{4} \begin{array}{l} S 18 \\ S 19 \end{array}$$

1922

From which,

A pinyon, 12 ins. in diam., bears N. $3\frac{3}{4}^{\circ}$ W., 60 lks. dist., marked $\frac{1}{4}$ S 18 B T.

A cedar, 6 ins. in diam., bears S. $76\frac{1}{4}^{\circ}$ W., 59 lks. dist., marked $\frac{1}{4}$ S 19 B T.

Asc. 160 ft. over SW. slope to

47.10 Spur slopes NW. Desc. 55 ft. over NE. slope.

51.00 Asc. 37 ft. over NW. slope.

55.50 Same spur, slopes SW. Desc. 145 ft. over SE. slope to

59.50 Draw, 10 lks. wide, course SW. Saddle in spur, bears NW. 2 chs. dist. Asc. 20 ft. over SW. slope to

66.10 Enter small wash, course SW. from E. Asc. 25 ft. along N. edge of this wash to

68.40 Head of same wash, course W. Asc. 135 ft. over W. slope to.

79.41 The cor. of secs. 17, 18, 19 and 20.

Land; rolling and mountainous.

Soil; rocky, 4th rate.

Timber; cedar and pinyon.

Undergrowth; scrub oak and sagebrush.

N. $0^{\circ} 3'$ W., bet. secs. 17 and 18.

Over mountainous land, through scattering timber and undergrowth. Asc. gradually over W. and SW. slopes.

14.00 Trail, bears NW. and SE.

21.00 Spur, slopes W. Desc. 50 ft. over N. slope.

25.50 Bottom of gulch, 20 lks. wide, course NW.

Asc. 175 ft. over SW. slope.

33.50 Spur, slopes NW.

Desc. 165 ft. over NE. slope to

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked on brass cap
$$\frac{1}{4} \begin{array}{l} S 18 \quad | \quad S 17 \\ S 18 \quad | \quad S 17 \end{array}$$

1922

From which,

A pinyon, 6 ins. in diam., bears S. $19\frac{1}{4}^{\circ}$ E., 64 lks. dist., marked $\frac{1}{4}$ S 17 B T.

A pinyon, 6 ins. in diam., bears N. $8\frac{1}{2}^{\circ}$ W., 19 lks. dist., marked $\frac{1}{4}$ S 18 B T.

Desc. 392 ft. over NE. slope to sec. cor.

62.00 Trail, bears E. and W.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., on surface of rock, deposit a stone marked with a cross (X) at base of post and raise a md. of stone around post for cor. of secs. 7, 8, 17 and 18, marked on brass cap

T 30 N R 11 W

$$\frac{1}{4} \begin{array}{l} S 7 \quad | \quad S 8 \\ S 18 \quad | \quad S 17 \end{array}$$

1922

From which,

A pinyon, 10 ins. in diam., bears N. 55° E., 59 lks. dist., marked T 30 N R 11 W S 8 B T.

A pinyon, 8 ins. in diam., bears S. $85\frac{3}{4}^{\circ}$ E., 87 lks. dist., marked T 30 N R 11 W S 17 B T.

A pinyon, 6 ins. in diam., bears N. 22° W., 70 lks. dist., marked T 30 N R 11 W S 7 B T.

No other bearing tree available.

Land; mountainous.

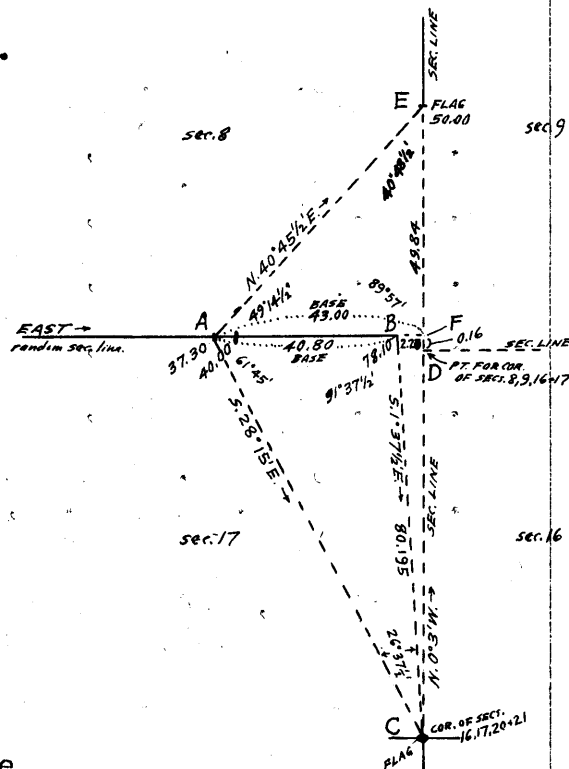
Soil; rocky, 4th rate.

Timber; cedar and pinyon.

Undergrowth; sagebrush and scrub oak.

Survey of the Subdivision of T. 30 N., R. 11 W.

Chains East, on random line, bet. secs. 8 and 17.
 37.30 Triangulation point. Continue chaining.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 78.10 Foot of cliffs, upon the face of which the point for sec. cor. falls.
 Discontinue chaining and triangulate the location of the sec. cor. point, and a point on sec. line bet. secs. 8 and 9, as described as follows:
 Set flag (C) on the cor. of secs. 16, 17, 20 and 21.
 Set flag (E) at point on sec. line bet. secs. 8 and 9, at E. rim of Green Spring Canyon.
 From 37.30 ch. station (A) on random line the flag (C) bears S. $28^{\circ} 15'$ E., and flag (E) bears N. $40^{\circ} 45\frac{1}{2}'$ E.
 From 78.10 ch. station (B) on random line the flag (C) brs. S. $1^{\circ} 37\frac{1}{2}'$ E.
 The Base (A-B) of triangle (A-B-C) is 78.10 chs. - \bullet
 37.30 chs. = 40.80 chs. East.
 Dist. (C-B) by triangulation = 80.195 chs. N. $1^{\circ} 37\frac{1}{2}'$ W., the latitude of which is 80.16 chs. N., and the departure 2.27 chs. W.
 The latitude of the sec. line (C-D) N. $0^{\circ} 3'$ W., 80.00 chs. is 80 chs. N., and the departure 0.07 chs. W.
 The point of intersection (F) of the random sec. line extended East, with the sec. line (C-E) will therefore be 16 lks. N. $0^{\circ} 3'$ W., from sec. cor. point (D) and 2.20 chs. East from triangulation point (B).
 The Base (A-F) for solution of triangle (A-E-F) is therefore 40.80 chs. + 2.20 chs. = 43.00 chs. East.
 Triangulated dist. (F-E) = 49.84 chs. N. $0^{\circ} 3'$ W.
 Point (E) on the sec. line bet. secs. 8 and 9 is therefore 49.84 chs. + 0.16 chs. = 50.00 chs. N. $0^{\circ} 3'$ W., from sec. cor. point (D)
 Dist. on random sec. line bet. secs. 8 and 17 = 78.10 chs. East.
 Dist. (B-F) triangulated = 2.20 chs. East.
 Total length of random sec. line = 80.30 chs. East.
 The random sec. line bet. secs. 8 and 17 extended E. would therefore at
 80.30 Fall 16 lks. N. of the point for cor. of secs. 8, 9, 16 and 17 on face of cliff.
 Thence
 N. $89^{\circ} 53'$ W., on true line, bet. secs. 8 and 17.
 Over mountainous land, in Green Spring Canyon, thru scattering timber and undergrowth.
 Measurement of 2.20 chs. by triangulation hereinbefore described. Desc. from face of cliff to
 2.20 Triangulation point at foot of cliff bearing N. and S. Establish witness cor. to cor. of secs. 8, 9, 16 & 17 at this point as hereinbefore described.
 Continue line and measurement by chaining.
 Descend 655 ft. over steep W. slope to
 14.60 Wash, 30 lks. wide course NW. Desc. 382 ft. over steep NW. slope to
 35.00 Same wash 50. lks. wide, course SW. Desc. 29 ft. over SW. slope to



BOOK 3644

Survey of the Subdivision of T. 30 N., R. 11 W.

Chains

40.15 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

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

No bearing trees available.

Raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor. Desc. 150 ft. over SW. slope.

43.00 Triangulation point. Continue chaining.

66.10 Bottom of gulch, 100 lks. wide, course NW. Asc. 100 ft. over NE. slope to

68.70 W. rim of gulch, brs. NW. & SE. Leave gulch. Thence over nearly level point to

72.65 E. rim of gulch, brs. NW. and SE. Enter gulch. Desc. 210 ft. over precipitous W. slope.

75.50 Bottom of gulch, course NW. Asc. 75 ft. over steep NE. slope to

78.30 W. rim of gulch, brs. NW. and SE. Leave gulch and mountainous land and enter rolling land. Asc. gradually over NE. slope to

80.30 The cor. of secs. 7, 8, 17 and 18.

Land; mountainous and rolling.

Soil; rocky 4th rate.

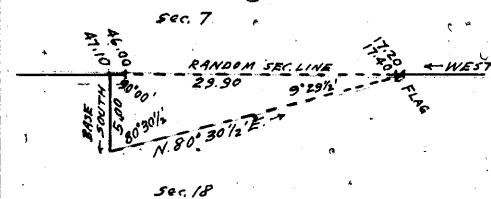
Timber, cedar and pinyon.

Undergrowth; scrub oak, sagebrush and cactus.

West, on random line, bet. secs. 7 and 18.

17.20 Triangulation point. Continue chaining to

17.40 Top of cliff brs. N. and S. facing W. Discontinue chaining owing to precipitous descent beyond this point and triangulate as described as follows:



Set flag at 17.20 ch. station on random line.

From a point ahead on random line measure a Base, South, 5.00 chs.

From S. end of Base the flag brs. N. $80^{\circ} 30\frac{1}{2}'$ E.

From N. end of Base the vertical angle to flag is 0° , and to point on random line in bottom of canyon is -38° .

Dist. on random sec. line = 17.20 chs. West.

Dist. triangulated = 29.90 " "

Total dist. = 47.10 chs. West.

Dist. by return measurement = 1.10 chs. East.

46.00 chs. West.

40.00 Point for temp. $\frac{1}{4}$ sec. cor. on face of cliffs. Inaccessible.

46.00 Top of cliffs, bearing NE. and S., facing SE. Continue line and measurement by chaining.

47.10 Triangulation point. Set temp. witness cor. Continue chaining.

79.38 Intersect the cor. of secs. 7, 12, 13 and 18, on W. bdy. of Tp., hereinbefore described.

Thence,

East, on a true line, bet. secs. 7 and 18.

Over mountainous land, through scattering timber and undergrowth. Desc. gradually over S. slope.

2.00 Spur, slopes S. 80° E. Desc. 336 ft. over NE. slope.

21.50 Bottom of gulch, 50 lks. wide, course SE. Asc. 35 ft. over SW. slope to

24.00 Rim of gulch, brs. NW. and SE. Thence over rolling surface of small bench. Asc. 30 ft. over S. slope to

32.28 Set an iron post, 3 ft. long, 1 in. in diam., on surface

Survey of the Subdivision of T. 30 N., R. 11 W.

Chains

rock, supported in a mound of stone, for W. C. to $\frac{1}{4}$ cor. marked on brass cap

$\frac{1}{4}$ $\frac{S 7}{S 18}$ W C
1922

From which,

A cedar, 6 ins. in diam., bears N. 51° E., 90 lks. dist., mkd. WC $\frac{1}{4}$ S 7 B T.

A cedar, 6 ins. in diam., bears S. 52 $\frac{1}{2}$ ° E., 88 lks. dist., mkd. WC $\frac{1}{4}$ S 18 B T.

- 33.38 Top of cliffs bearing NE. and S. facing SE. Discontinue chaining. Enter mountainous land. Measurement by triangulation. Desc. about 1200 ft. over cliffs.
- 39.38 True point for $\frac{1}{4}$ sec. cor. falls on face of cliff where it is inaccessible.
- 56.00 (Approx.) Wash 100 lks. wide in bottom of Green Spring Canyon, course S. Asc. about 1200 ft. over cliffs facing W.
- 61.98 Top of cliff, bearing N. and S., facing W. Continue line and measurement by chaining. Enter gently rolling land. Asc. gradually over N. slope.
- 62.18 Triangulation point. Continue chaining.
- 69.50 Desc. gradually over N. and NE. slopes to
- 79.38 The cor. of secs. 7, 8, 17 and 18.
Land; mountainous and rolling.
Soil; rocky, 4th rate.
Timber; cedar and pinyon.
Undergrowth; scrub oak, sage brush and cactus.

N. 0° 3' W., bet. secs. 7 and 8.

Over rolling land, through scattering timber and undergrowth. Desc.

- .50 Rim of gulch, bears SE. and NW. Leave rolling and enter mountainous land. Desc. 135 ft. over steep N. slope.
- 8.00 Bottom of gulch, 200 lks. wide, course W.
Asc. 135 ft. over steep broken SW. slope to.
- 12.20 Rim of gulch, bears SE. and NW. Leave gulch. Asc. 90 ft. over S. slope.
- 20.00 Spur, slopes W. Desc. 145 ft. over NW. slope.
- 32.15 Wash, 40 lks. wide, in gulch, course W. Asc. 100 ft. over SW. slope.
- 39.50 Rim of gulch, bears SE. and NW. Leave gulch. Asc. 5 ft. over SW. slope to.
- 40.00 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

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

From which,

A boulder, bears N. 69 $\frac{1}{2}$ ° E., 27 lks. dist. marked cross (X) with B O above cross.

Face of outcropping ledge, bears S. 37° W., 28 lks. dist., marked cross (X) with B O above cross

No bearing trees available.

- Asc. 67 ft. over SW. slope.
- 49.50 Rocky point of spur, sloping SW. Desc. 102 ft. over NW. slope.
- 55.00 Wash, 20 lks. wide, course NW.
Asc. 23 ft. over SW. slope.
- 59.40 Desc. 74 ft. over NW. slope.
- 65.30 Wash, 30 lks. wide, course SW.
Asc. 145 ft. over SW. and W. slopes to

BOOK 3644

Survey of the Subdivision of T. 30 N., R. 11 W.

Chains

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 md. of stone around post, for cor. of secs. 5, 6, 7 and 8, marked on brass cap

T 30 N R 11 W

S 6	S 5
S 7	S 8

1922

From which,

A cedar, 10 ins. in diam., bears N. 78° E., 26 lks. dist., marked T 30 N R 11 W S 5 B T.

A cedar, 6 ins. in diam., bears S. 49½° E., 71 lks. dist., marked T 30 N R 11 W S 8 B T.

No other bearing trees available.

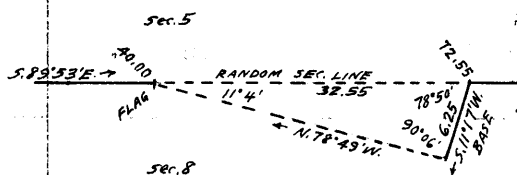
Land; rolling and mountainous.

Soil; rocky, 4th rate.

Timber; cedar and pinyon.

Undergrowth; scrub oak and sagebrush.

40.00 S. 89° 53' E., on random line, bet. secs. 5 and 8. Set temp. ¼ sec. cor. Discontinue chaining owing to cliffs beyond this point.



Triangulate as described as follows:

Set flag at this point.

From a point ahead on random line at top of cliffs measure a Base S. 11° 17' W., 6.25 chs.

From SW. end of Base the flag bears N. 78° 49' W.

From NE. end of Base the vertical angle to flag is -35°.
 Dist. on random sec. line = 40.00 chs. S. 89° 53' E.
 Dist. triangulated = 32.55 " " "
 Total dist. = 72.55 chs. S. 89° 53' E.

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

80.14 Fall 12 lks. S. of the cor. of secs. 4, 5, 8 and 9.
 Fall 12 lks. S. of the cor. of secs. 4, 5, 8 and 9.

Thence

N. 89° 58' W., on a true line bet. secs. 5 and 8.

Over rolling land, through dense timber and undergrowth.

Desc. gradually over NW. slope to

7.59 Triangulation point at top of cliff about 400 ft. high bearing NE. and SW. facing NW. and forming the East or left rim of Green Spring Canyon. Enter mountainous land, scattering timber and undergrowth in canyon.

Discontinue chaining. Measurement to ¼ sec. cor. by triangulation hereinbefore described. Desc. about 1500 ft. over cliffs to

40.07 Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in the ground to bed rock, supported in a mound of stone for ¼ sec. cor. marked on brass cap

S 5
S 8

1922

From which,

A cedar, 12 ins. in diam., bears N. 12° E., 80 lks. dist., marked ¼ S 5 B T.

A cedar, 8 ins. in diam., bears S. 20° W., 66 lks. dist., marked ¼ S 8 B T.

Continue line and measurement by chaining.

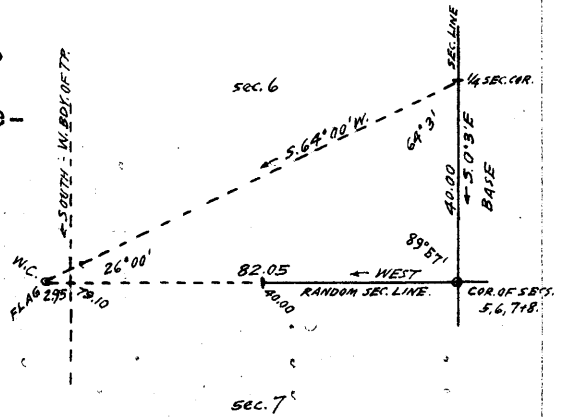
Desc. 370 ft. over W. slope.

Survey of the Subdivision of T. 30 N., R. 11 W.

Chains
 65.15 Trail, bears N. and S. Asc. 30 ft. over SE. slope.
 70.55 Spur, slopes S. 10° W. Desc. 130 ft. over W. slope to
 80.14 The cor. of secs. 5, 6, 7 and 8.
 Land; rolling and mountainous.
 Soil; rocky, 4th rate.
 Timber; cedar and pinyon.
 Undergrowth; scrub oak, sagebrush, cactus, ocotillo and
 buck brush.

40.00 West, on random line, bet. secs. 6 and 7.
 Set temp. 1/4 sec. cor. Discontinue chaining owing to pre-
 cipitous ascent over cliffs beyond this point. Tri-
 angulate the measurement of the remainder of the random
 sec. line as follows:

Survey the line between secs.
 5 and 6 before completing
 the measurement of line be-
 tween secs. 6 and 7, then
 use as a Base the S. 1/2 of
 line bet. secs. 5 and 6
 (S. 0° 3' E., 40.00 chs.)



Set flag on the witness cor.
 to cor. of secs. 1, 6, 7
 and 12.

From 1/4 sec. cor. of secs. 5
 and 6, the flag bears S.
 64° 00' W.

From the cor. of secs. 5, 6, 7 & 8, the flag bears West.
 Distance triangulated = 82.05 chs. West.
 Dist. flag to cor. point = 2.95 chs. East.
 Length of sec. line = 79.10 chs. West.

79.10 Intersect the true point for cor. of secs. 1, 6, 7 and
 12 on W. bdy. of Tp. hereinbefore described.

Thence
 East, on true line, bet. secs. 6 and 7.
 Over mountainous land in Green Spring Canyon, thru
 scattering timber and undergrowth.
 Measurement to 1/4 sec. cor. by triangulation hereinbefore
 described.

39.10 Descend about 1500 ft. over cliffs 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 1/4 sec. cor. marked on brass cap

1/4 56
 37
 1922

No bearing trees available.
 Raise a mound of stone, 3 ft. base, 2 ft. high N. of cor.
 Continue line and measurement by chaining.

64.90 Desc. 306 ft. over E. slope to
 Center of wash, 100 lks. wide, course S., in bottom of
 Green Spring Canyon. Asc. 310 ft. over W. slope to
 79.10 The cor. of secs. 5, 6, 7 and 8.
 Land; mountainous.
 Soil; rocky, 4th rate.
 Timber; cedar and pinyon.
 Undergrowth; sagebrush, scrub oak and cactus.

40.00 N. 0° 3' W., on a random line bet. secs. 5 and 6.
 Set temp. 1/4 sec. cor.
 80.02 Intersect the cor. of secs. 5, 6, 31 and 32 on N. bdy. of
 Tp., described in Book "D" of this group.

BOOK 3644

Survey of the Subdivision of T. 30 N., R. 11 W.

Chains Thence
 S. 0° 3' E., on a true line bet. secs. 5 and 6.
 Over mountainous land, through scattering timber and undergrowth. Asc. 14 ft. over N. slope.
 1.00 Spur, slopes N. 80° W. Desc. 25 ft. over S. slope.
 2.26 Trail bears NE. and SW. in wash, 30 lks. wide, course NW. Asc. 176 ft. over NW. slope.
 10.50 Desc. 110 ft. over SW. slope.
 16.00 Wash, 20 lks. wide, course N. 70° W. Asc. 30 ft. over NW. slope.
 19.30 Desc. 46 ft. over SW. slope.
 31.70 Wash, 30 lks. wide, course W. Desc. gradually over W. slope to
 40.02 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 6 $\frac{1}{4}$ S 5
 1922

From which,

A pinyon, 12 ins. in diam., bears N. 85° E., 56 lks. dist., marked $\frac{1}{4}$ S 5 B T.

A cedar, 8 ins. in diam., bears S. 43° W., 15 lks. dist., marked $\frac{1}{4}$ S 6 B T.

Desc. slightly over S. slope to

40.30 Wash, 10 lks. wide, course W. Asc. 70 ft. over N. slope.
 50.00 Spur, slopes W. Desc. 120 ft. over S. slope.
 54.80 Bottom of gulch, 30 lks. wide, course W. Asc. 30 ft. over NW. slope.
 58.00 Desc. 70 ft. over W. slope to
 66.00 Spur, slopes SW. Desc. 40 ft. over S. slope.
 70.00 Wash, 100 lks. wide, course W. Asc. 172 ft. over NW. and W. slopes to.
 80.02 The cor. of secs. 5, 6, 7 and 8.
 Land; mountainous.
 Soil; rocky 4th rate.
 Timber; cedar and pinyon.
 Undergrowth; scrub oak, sagebrush and cactus.

The continued satisfactory adjustment of the solar apparatus of the instruments used in the execution of the surveys described in the foregoing notes is indicated from field tests described in Books "F", "G" and "H".

GENERAL DESCRIPTION.

This township contains nearly every variety of surface. About half of the total area is mountainous; which surface is confined to the canyons in the East two ranges, and Green Spring and Horse Spring Canyons in the West two ranges of secs. A rolling surface predominates in the middle two ranges of sections, and the southern part of the west two ranges, and the same portion of the township has considerable gently rolling surface. There are a number of small areas in scattered parts of the township, where the surface is nearly level, and in secs. 3 and 10, there is some level surface. Price Butte in sec. 24, and Blue Mountain in sec. 33 are the highest points in the Tp.
 The soil over most of the township is rocky, 4th rate. In the middle two ranges of sections, the soil is a gravelly and rocky clay, 2nd and 3rd rate. There is timber in all sections, consisting of cedar, pinyon and oak in scattering and dense growths in about

GENERAL DESCRIPTION-continued.

equal proportions of area.

The undergrowth, consisting of black brush, sagebrush, scrub oak, catclaw and cactus, is dense over most of the S. $\frac{1}{2}$ of the township, and scattering over most of the N. $\frac{1}{2}$.

There are no water courses carrying a permanent flow of water. Horse Spring in sec. 20, and a water hole in sec. 22 at head of canyon, known as Price Pocket, contain the only permanent water supply. There is one settler, William Shanley, who has a house and corral in sec. 21 at head of canyon, known as Dinner Pocket, and a log and brush fence enclosing a large area East of canyon in secs. 16 and 21. Shanleys improvements, and a small corral on line bet. secs. 15 and 22 are the only ones in the Township.

There are no surface indications of valuable mineral deposits.

A road bearing N. and S. passes thru. the central part of the township with two roads branching off in sec. 10 to Dinner Pocket.

A trail extends northerly from Horse Spring, thru. Green Spring Canyon, and another trail extends northeasterly from Dinner Pocket, joining road in sec. 3.



BOOK 3644

CERTIFICATE OF UNITED STATES TRANSITMAN.

76

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 West and South boundaries, and Subdivision lines of

TOWNSHIP 30 NORTH, RANGE 11 WEST,

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

Benjamin J. Kinsey
 U. S. Transitman.

APPROVAL

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

_____, 19

The foregoing field notes of the survey of _____

executed by _____

under his special instructions dated _____, 19 _____, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

U. S. Surveyor General.

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

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

U. S. Surveyor General.

4-680

FIELD ASSISTANTS. to

William E. Hiester, U. S. Surveyor.

NAMES.	CAPACITY.
John Boggs,	1st chainman,
Frank Vaile,	2nd chainman,
Thomas Tennison,	2nd chainman and flagman,
Gray Fullerton,	2nd chainman and flagman,
James Arthur,	cornerman,
Lowell McAllister,	cornerman,
Guy Semple,	axman,
Earl Laub,	axman,
Clarence Laub,	flagman,

CERTIFICATE OF UNITED STATES SURVEYOR.

78

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, West and South boundaries, and

Subdivision lines of

TOWNSHIP 30 NORTH, RANGE 11 WEST,

of the Gila and Salt

River Base and Meridian, in the State of Arizona, and by diagram on page 1 hereof the foregoing field notes as having been executed by me, and under my direction; and that all the corners of said 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 Lake.

William E. Hiester

U. S. Surveyor.

Date: Jan. 24, 1925.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona, FEB 16 1925, 1924.

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

TOWNSHIP 30 NORTH, RANGE 11 WEST,

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

executed by William E. Hiester, U. S. Surveyor, and Benjamin J. Kinsey, U. S. Transitman, under his special instructions dated October 12, 1916, for Grp. 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. Donohue 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.