Book "H" BOOK 3535

# FIELD NOTES

OF THE SURVEY OF

part of the West boundary (the South 4 miles)

part of the North boundary (the East 3 miles)

and part of the Subdivision lines of

Township 27 North, Range 9 West,

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

*In the State of* Arizona

EXECUTED BY

Quintin Campbell, U. S. Surveyor,

and

Kenneth W. Bond, U. S. Transitman,

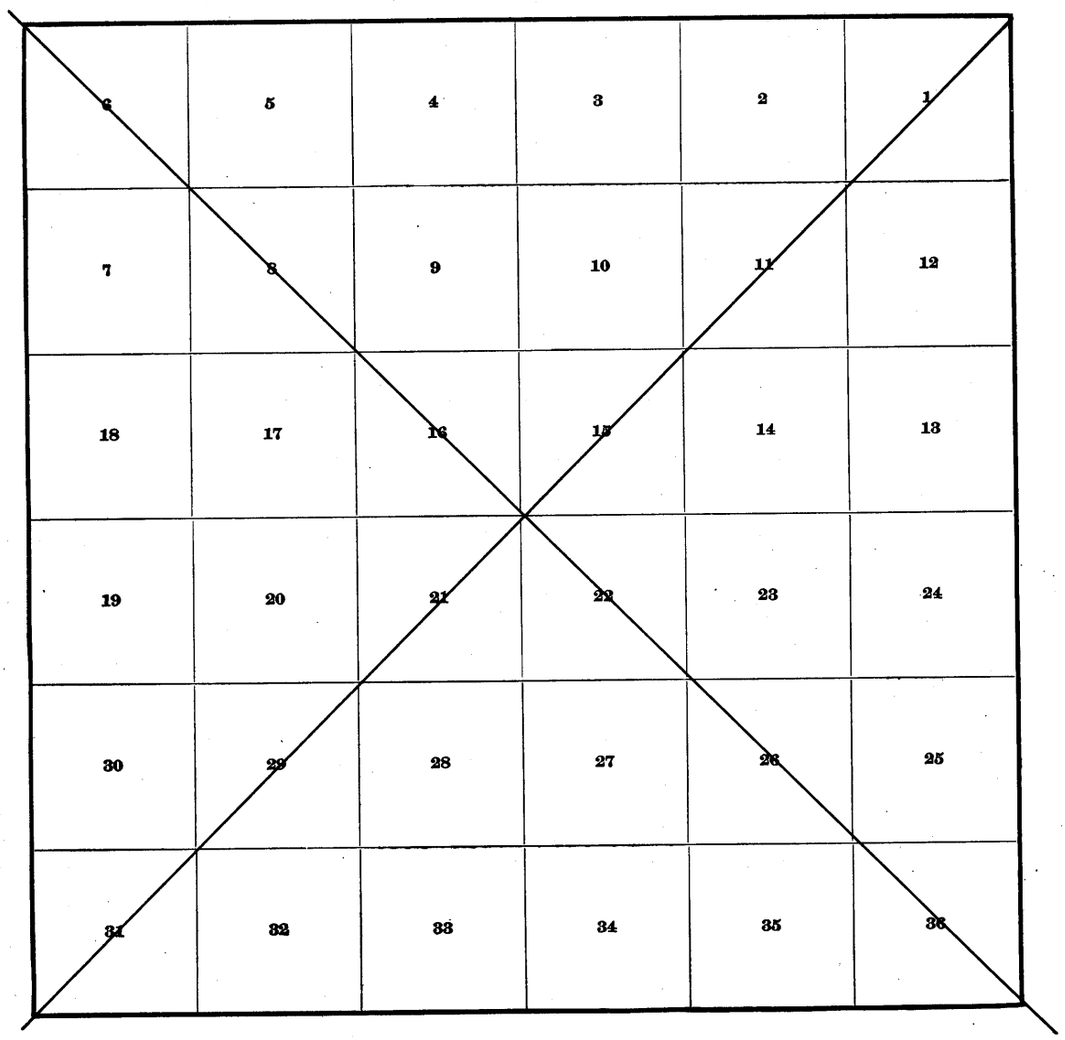
*In the capacity of U. S. Surveyor, under Special Instructions dated* Feb. 25, 1920, *issued by the United States Surveyor General to govern surveys included in Group No.* 107, Arizona, *which were approved by the Commissioner of the General Land Office,* March 8, 1920, *and Assignment Instructions dated* March 19 & 29, 1920

*Survey commenced* September 30, 1920

*Survey completed* November 17, 1920

# ~~INDEX DIAGRAM.~~

~~Township~~ ....., ~~Range~~ .....



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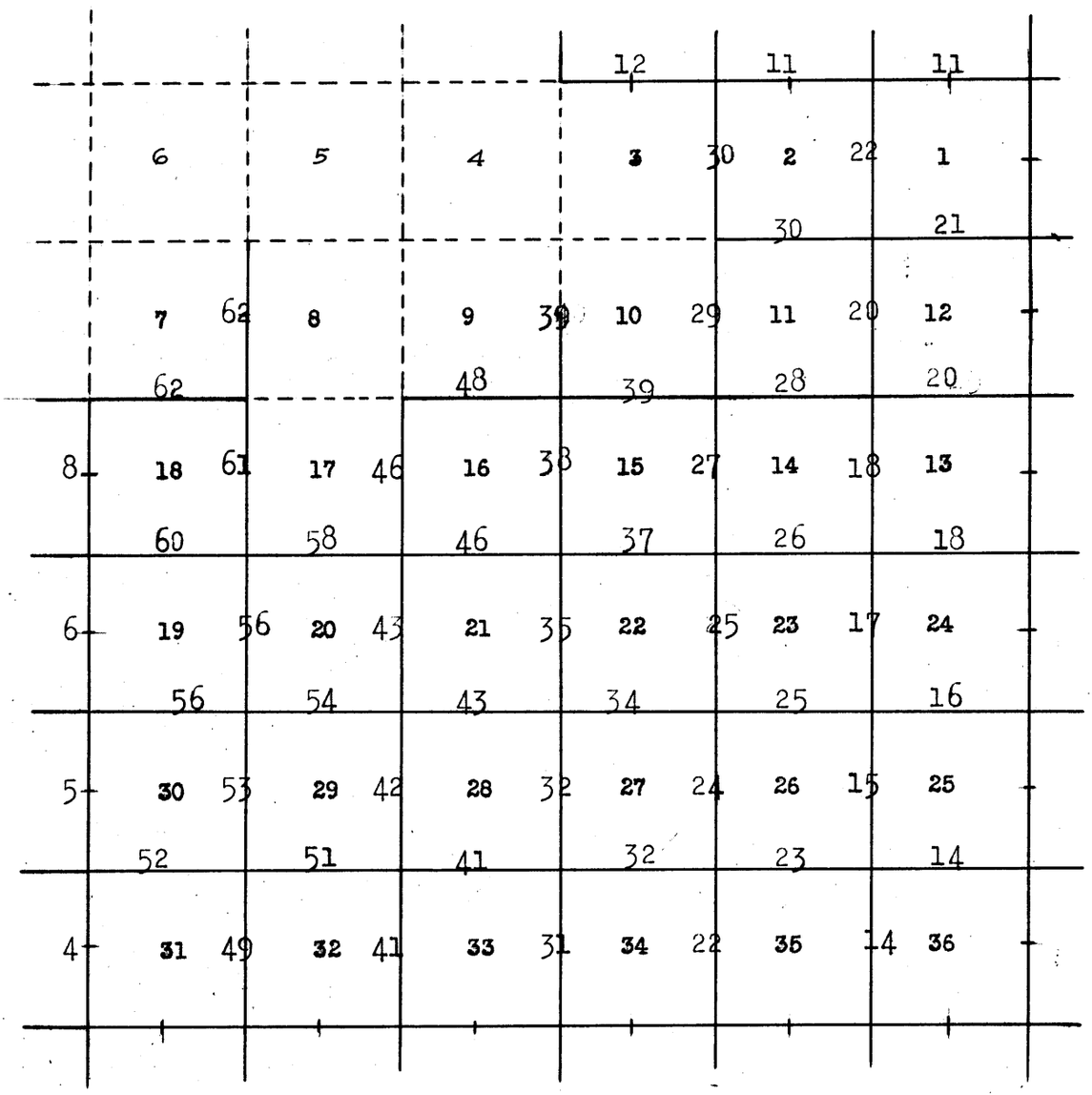
ORIG 72

# Book "H"

**Index Diagram**

**Township 27 North, Range 9 West**

BOOK 3535




_____ **Lines surveyed under this Group.**

_____ Lines surveyed under Group 108.

------ Unsurveyed.

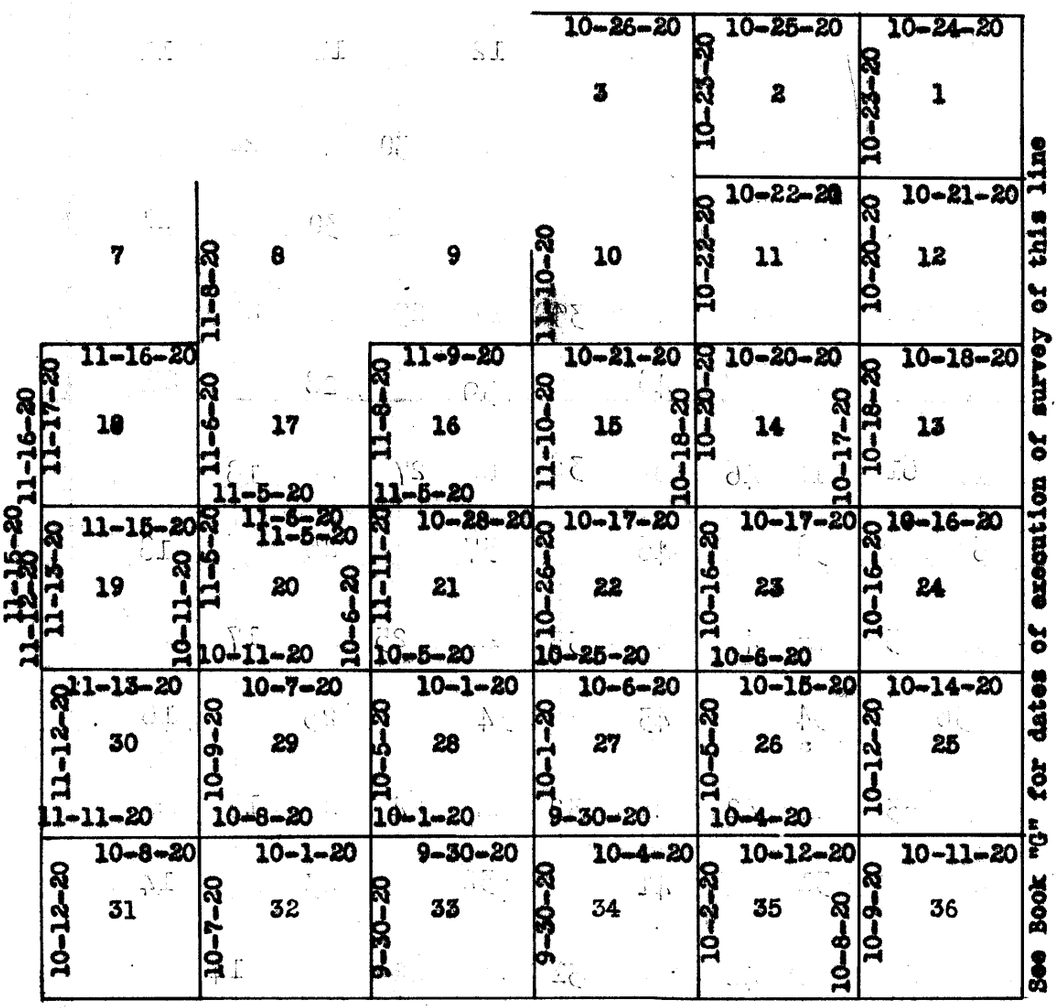
2

73

## Date Diagram

BOOK 3535

Township 27 North, Range 9 West,




On the above diagram:-
black lines indicate surveys executed by Quintin Campbell, U. S. Surveyor,
and red lines indicate surveys executed by Kenneth W. Bond, U. S. Transitman,
on dates shown thereon.

Surveys hereinafter described, executed on dates shown on diagram on page 2 hereof; by Quintin Campbell, U.S. Surveyor, and Kenneth W. Bond, U.S. Transitman, using respectively. Young and Son's light mountain transits Nos. 8491 and 8477. Each instrument is equipped with full vertical circle and the Smith solar attachment; unless otherwise specified all azimuth determinations are accomplished with the solar attachments.

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September 29, 1920. We examine the adjustment of each instrument, and correct all errors; then, to test the solar apparatus by comparing its indications from observations made during a.m. and p.m. hours with a meridian established by Polaris observation, proceed with each instrument as follows:

At camp in the SE. ¼ of sec. 4, T. 26 N., R. 9 W., Gila and Salt River Base and Meridian, Arizona, in latitude 35°40'08" N., and longitude, 113°14°35'W. at 7h. 2.5m. p.m., l.m.t., observe Polaris at eastern elongation, making four observations, two each with the telescope in direct and reversed positions, and mark the mean point in the line thus determined on a peg driven firmly in the ground 5 chs. N.

Azimuth of Polaris at Eastern elongation = 1°22'43".

September 30, 1920. Lay off the azimuth of Polaris 1° 22½'to the West, and mark the meridian thus determined by a tack in a peg driven firmly in the ground 5 chs. N.

At 7h. 30m. a.m., l.m.t., set off 35°40'N. on the lat. arc; 2°49'S. on the decl. arc, and determine a meridian with the solar, which agrees with the true meridian.

At app. noon, with the lat. arc unchanged, observe the sun on the meridian; the resulting reading of the decl. arc is 2°53½'S., which agrees with the computed declination of the sun.

At 4h. 30m. p.m., l.m.t., with the latitude arc unchanged, set off 2°56'S. on the decl. arc, and determine a meridian with the solar, which agrees with the true meridian.

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

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Unless otherwise specified, all measurements are made with Lallie steel tapes, 2 and 5 chs. in length, compared with a Lufkin standard steel tape, and found correct. The measurements are made on the slope, the vertical angles determined, and the slope measurements properly reduced to true horizontal distances.

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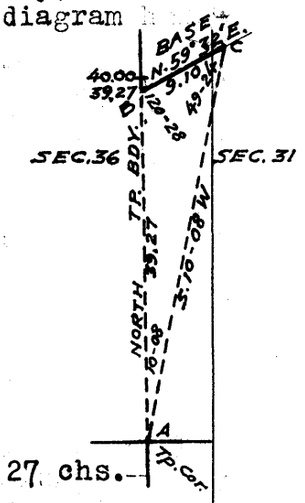
4 Survey of part of W. bdy. of T. 27 N., R. 9 W. (S. 4 miles)

Chains.

From the cor. of Ts. 26 and 27 N., Rs. 9 and 10 W., described in Book "F,"
North, on true line, bet. secs. 31 and 36.
Over mountainous land, thru. very scattering timber and dense undergrowth.
The surface for about one half mile N. from the Tp. cor. is extremely rough and broken, over which chaining is impracticable; therefore, triangulate the measurement of this portion of the township boundary, as described as follows, and as shown on the diagram hereon:




Set flag on Tp. cor., indicated on diagram at "A."
Set flag ahead on Tp. bdy., at "B."
From "B" measure a Base, N. 59°32' E., 9.10 chs. to point "C."
Bearing "C-A" = S. 10°08' W.
Included angles of triangle "A-B-C" are 10°08', 120°28' and 49°24', the sum of which is 180°00'.
Triangulated measurement on Tp. bdy. from "A" to "B" is obtained by

$$\frac{\text{sine } 49°24' \times \text{Base}}{\text{sine } 10°08'} \text{ or } \frac{.75927 \times 9.10}{.17594} = 39.27 \text{ chs.}$$

The approximate positions of the topographical features within the triangulated interval are as follows:

18.00 S. rim of canyon, brs. E. and W. The vertical angle from this point to Tp. cor. is + 18°; therefore, the descent to this point over steep NW. slope is about 385 ft.
Descend about 200 ft., over precipitous N. slope, to
22.00 Bottom of canyon, course W.
Ascend about 200 ft. over precipitous S. slope, to
26.00 N. rim of canyon, brs. E. and W. The vertical angle from this point to triangulation point "B" is +14°; therefore the ascent is about 230 ft. over steep SW. slope, to
39.27 Triangulation point "B" on point of spur, sloping W.
Continue line and measurement.
On point of spur, to
40.00 Set an iron post 3 ft. long, 1 in. in diam., 6 ins. in the ground, to bed rock, and raise a mound of stone around post, for ¼ sec. cor., marked on brass cap,

¼
S36 | S31
1920

and raise a mound of stone 2 ft. base, 1½ ft. high, W. of cor.
Top of cliffs bearing N. and S. facing W., bears W. about 7 chs. dist.
Descend 57 ft., over NW. slope, to
57.17 Gulch, 50 lks. wide, course SW.
Ascend 190 ft., over SW. slope.
73.01 Spur, slopes N. 10° W.
Descend 90 ft., over NE. slope, to
80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 6 ins. in the ground to bedrock, and raise a mound of stone around post for cor. of secs. 25, 30, 31 and 36, marked on brass cap,

T27N
R10W | R9W
S25 | S30
S36 | S31
1920

Chains.

and raise a mound of stone 2 ft. base, 1½ ft. high, W. of cor.
Top of cliffs bearing N. and S. facing W., brs. West about 10 chs. dist.
Land, mountainous.
Soil, rocky and gravelly, 4th rate.
Timber, very scattering juniper and pine.
Undergrowth, dense sagebrush and scattering cacti.
No grass.

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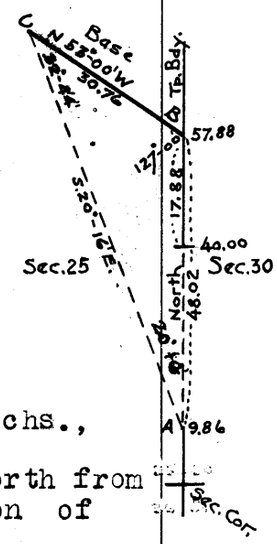
North, on true line, bet. secs. 25 and 30,
Over mountainous land, thru. scattering undergrowth.
Descend 97 ft, over NE. slope, to

9.86 Top of cliffs, bearing E. and W. facing N. The descent beyond this point is too precipitous to permit of chaining; therefore triangulate as described as follows, and as shown on the diagram hereon:




Set flag at 9.86 ch. station on Tp. bdy., indicated on diagram at "A."
Set flag "B" ahead on Tp. bdy.
From "B" measure a Base, N. 53°00' W. 30.76 chs. to point "C."
Bearing "C-A" = S. 20°16' E.
Included angles of triangle "A-B-C" are 20°16', 127°00' and 32°44', the sum of which is 180° 00'.
Triangulated measurement on Tp. bdy. from "A" to "B" is obtained by

$$\frac{\text{sine } 32°44' \times \text{Base}}{\text{sine } 20°16'} \text{ or } \frac{.54073 \times 30.76}{.34639} = 48.02 \text{ chs.},$$

which added to 9.86 chs., gives 57.88 chs. North from cor. of secs. 25, 30, 31 and 36 for the position of triangulation point "B."
The vertical angle from "A" to "B" is - 35°, therefore, 57.88 ch. station is 2218 ft. below 9.86 ch. station.
From triangulation point "B,"
Chain measurement, South, 17.88 chs., ascending 330 ft. over steep N. slope, to

40.00 Set an iron post 3 ft. long, 1 in. in diam., 20 ins. in the ground, to bedrock; deposit a stone marked with a cross (x) at base of post, and raise a mound of stone around post, for ¼ sec. cor., marked on brass cap,

$$\frac{1}{4} \quad S25 \mid S30 \quad 1920$$

from which,
A sandstone boulder, 8x5x2 ft. above ground, brs. N. 72°W., 56 lks. dist., marked X S25 B0.
This cor. is 1985 ft. below the cor. of secs. 25, 30, 31 and 36.
Descend 387 ft., over N. slope to bottom of canyon.

57.88 Triangulation point "B."

64.00 Bottom of canyon, 60 lks. wide, course NW.
Ascend 75 ft., over SW. slope.

67.95 Point of spur, slopes NW.
Descend 43 ft. over N. slope.

70.57 Gulch, 20 lks. course NW. from E. and NE.
Ascend 103 ft., over SW. slope, to

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 20 ins. in the ground to bed rock, and raise a mound of stone around post, for cor. of secs. 19, 24, 25 and 30,

6 Part of West bdy. of T. 27 N., R. 9 W. ( South 4 miles).

Chains.

marked on brass cap,

T27N
R10W | R9 W
S24 | S19
S25 | S30
1920

and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
Land, mountainous.
Soil, rocky and gravelly, 4th rate.
Timber, none.
Undergrowth, scattering sagebrush, prickly ash, cacti and buck brush.
No grass.

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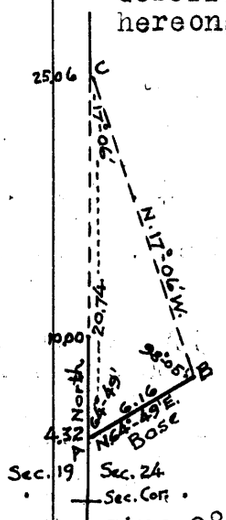
North, on true line, bet. secs. 19 and 24.
Over mountainous land, thru. scattering undergrowth.
Ascend 150 ft., over SW. slope, to foot of cliffs.
4.32 Triangulation point,
10.00 Foot of cliffs, bearing NW. and SE. facing SW.
Chaining being impracticable beyond this point, triangulate measurement on Tp. bdy. to top of these cliffs as described as follows, and as shown on the diagram hereon;




From 4.32 ch. station indicated on diagram at "A," measure a Base N. 64°49' E., 6.16 chs. to point "B."
Set flag "C" ahead on Tp. bdy. at top of cliffs.
Bearing "B-C" = N. 17°06' W.
Included angles of triangle "A-B-C" are 64°49', 98°05' and 17°06', the sum of which is 180°00'.
Triangulated measurement on Tp. bdy. from "A" to "C" is obtained by

$$\frac{\text{sine } 98°05' \times \text{Base}}{\text{sine } 17°06'} \text{ or } \frac{.99006 \times 6.16}{.29404} = 20.74 \text{ chs.,}$$

which added to 4.32 chs., gives 25.06 chs. North from cor. of secs. 19, 24, 25 and 30, for the position of triangulation point "C."
Vertical angle from point "C" to said sec. cor. is -18°, therefore, the top of cliffs is 537 ft. above sec. cor. or 387 ft. above foot of cliffs at 10 ch. station.
25.06 Triangulation point at top of cliffs, brs. NW. & SE. facing SW.
Continue line and measurement by chaining.
Ascend 92 ft. over SW. and W. slopes, to
35.16 Foot of cliffs, brs. N. and SE. Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground to bedrock, and raise a mound of stone around post, for witness cor. to ¼ sec. cor., marked on brass cap,

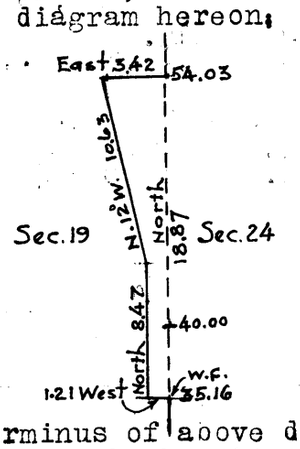
W C
¼
S24 | S19
1920

from which,
West face of cliff, 4 ft. above base, brs. S. 70° E., 10 lks. dist., marked XBO S19.
The SW. face of cliff 10 ft. above base, brs. N. 22½° W., 21 lks. dist., marked X BO S24.

Part of West bdy. of T. 27 N., R. 9 W. (South 4 miles) 7.

Chains.

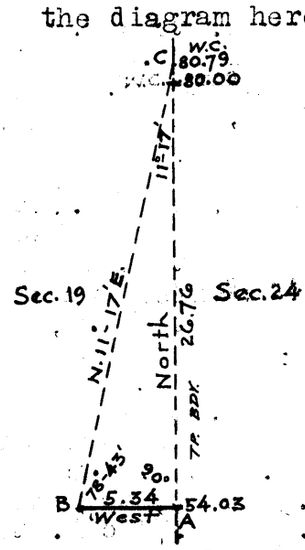
Beyond this cor., the Tp. bdy. passes over W. face of cliffs, and chaining is impracticable; therefore, obtain measurement by traverse around the foot of these cliffs, as described as follows, and as shown on the diagram hereon:




From 35.16 ch. station,
West, 1.21 chs., descending 47 ft.
Thence,
North, 8.47 chs., ascending 45 ft.
Thence,
N.12°W.; 10.63 chs., descending 115 ft.
Thence,
East, 3.42 chs., ascending 70 ft., and returning to Tp. bdy. at a point 18.87 chs. N. from, and 47 ft. below 35.16 ch. station.

54.03 Terminus of above described traverse.

Beyond this point the Tp. bdy. crosses a deep canyon, the walls of which are so steep and broken as to render chaining impracticable; therefore triangulate measurement across as described as follows, and as shown on the diagram hereon:




From 54.03 ch. station on Tp. bdy. indicated on diagram at "A," measure a Base, West 5.34 chs. to point "B," which is as long a base as can be obtained.
Set flag "C," ahead on Tp. bdy. at top of cliffs on N. wall of canyon.
Bearing "B-C" = N.11°17' E.
Included angles of triangle "A-B-C" are 90°00', 78°43' and 11°17', the sum of which is 180°00'.
Vertical angle "A" to "C" = 0°
Triangulated measurement on Tp. bdy. from "A" to "C" is obtained by tang. 78°43' X Base or 5.01210 x 5.34 = 26.76 chs., which added to 54.03 chs. gives 80.79 chs. North from the cor. of secs. 19, 24, 25 and 30, for the position of triangulation point "C" on Tp. bdy.

The approximate positions of the topographical features within the triangulated interval are as follows.

69.00 Bottom of canyon, 100 lks. wide, course W. The vertical angle to this point from 54.03 ch. station is - 27°; therefore, the descent over precipitous N. slope is about 50½ ft.

Ascend over precipitous S. slope.

80.00 True point for cor. of secs. 13, 18, 19 and 24 falls on S. face of cliff, bearing E. and W., and is inaccessible; therefore, at

80.79 Triangulation point at top of cliff, bearing E. and W., facing S.

Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, with a stone marked with a cross (x) deposited at base of post, for witness cor. to cor. of secs. 13, 18, 19 and 24, marked on brass cap,

T27N
R10W | R9W
S13 | S18
S24 | S19
W | C
1920

8 Part of W. bdy. of T.27 N., R.9 W. (South 4 miles)

Chains.

from which,
The S. face of cliff, 4 ft. above base, brs.N.18½°E.,106 lks. dist., marked X BO WC S18.
A limestone boulder 3x3x1 ft. above ground, brs.S.21½° E., 29 lks.dist.,marked X BO WC S19.
The S.face of cliff 6 ft. above base, N,7½° W.,107 lks. dist., marked X BO WC S13.
The vertical angle from this W.C. to the 54.03 ch.station on line bet. secs. 19 and 24, being 0° the ascent from bottom of canyon to this cor. is about 504 ft.
Land, mountainous.
Soil, rocky, 4th rate.
Timber, none.
Undergrowth, very scattering sagebrush.
No grass.

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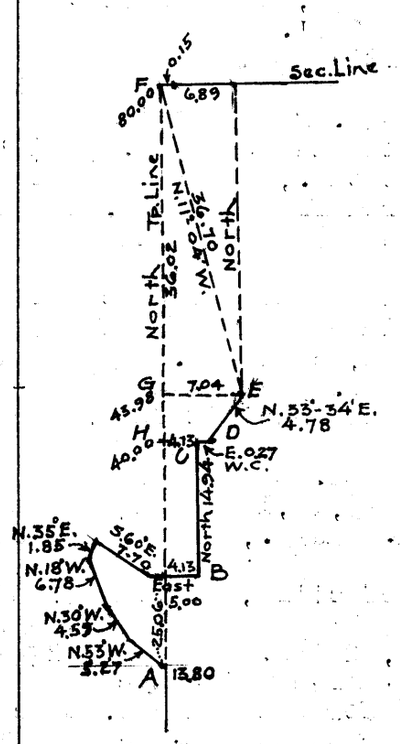
From true point, for cor. of secs. 13,18,19 and 24,
North, on true line, bet. secs. 13 and 18.
Over mountainous land, thru. very scattering undergrowth.
Ascend nearly perpendicular face of cliff, measurement by triangulation to
0.79 Triangulation point and witness cor. to cor.of secs. 13, 18,19 and 24, hereinbefore described.
Continue line and measurement by chaining.
Ascend 551 ft.,over steep S. slope,to
8.51 Spur,slopes W.
Descend 50 ft., over N.slope.
13.80 SW. end of steep cliffs, bearing NE. and SW.,facing NW.
Beyond this point, the township boundary passes over the face of these cliffs and chaining thereon is impracticable therefore to avoid the cliffs, survey a traverse line around same, as described as follows, and as shown on the diagram hereon:




From 13.80 ch.station on Tp.bdy. indicated on diagram at "A," N.53°W., 5.27 chs. ascending 22 ft. for 1.56 chs., then descending 21 ft. for 3.71 chs. to E.rim of canyon.
Thence,
N.30°W., 4.59 chs., ascending 27 ft. along E.rim of canyon.
Thence,
N.18°W., 6.78 chs.,continuing along E. rim of canyon, descending 25 ft.
Thence,
N.35°E.,1.85 chs.,continuing along E.rim of canyon, descending 18 ft.
Thence,
S.60°E., 7.70 chs.,continuing along canyon rim, with slight change in elevation.
Thence,
East, 5.00 chs.,continuing along canyon rim with slight change in elevation to point "B," where the canyon rim turns to north.

By computation of the traverse above described,point "B" is found to be 11.26 chs. N., and 4.13 chs.E. from point "A,"or 4.13 chs.E. from 25.06 ch. station on Tp. bdy.
Thence,
North, 14.94 chs. on traverse in sec.18, along rim of canyon, descending 40 ft. to point "C" which is

Chains.

4.13 chs. E. of 40.00 ch. station, on Tp. boundary, or point for ¼ sec. cor., indicated on diagram at "H."

Point "C" is the closest accessible point to the point for ¼ sec. cor. but is not in a suitable position to establish witnesse cor.; therefore, from point "C."

East, 0.27 chs. to point "D," and establish witness cor. to the ¼ sec.cor. as follows:

Set an iron post, 3 ft.long, 1 in. in diam., 18 ins. in the ground to bedrock, deposit a stone marked with a cross (X) at base of post, and raise a mound of stone around post, for witness cor. to ¼ sec.cor., marked on brass cap,

¼

WC S13 | S18

1920

from which,

the W. face of rim rock brs.S.50°E.,4 lks.dist., marked X BO S18 WC.

40.00 True point for ¼ sec.cor. falls on W.face of cliff, and is inaccessible; therefore, at a point 4.40 chs. E. therefrom, establish witness cor., , as described above.

From witness cor. to ¼ sec.cor., continue the traverse line in sec.18, along rim of canyon.

N.33°34'E., 4.78 chs. to point on rim of canyon, bearing NE. and SW., indicated on diagram at "E," which by computation of the traverse hereinbefore described is 7.04 chs.E. from 43.98 ch. station on Tp.bdy., indicated on diagram at "G."

Beyond this point it is impracticable to continue traverse line toward the objective sec.cor. point "F," by chaining; therefore, locate point "F," by solution of the triangle "E-F-G" in which "E-G" is 7.04 chs., and "F-G" is 36.02 chs. in length.

The course of "E-F" is therefore N. 11°04'W., and its theoretical length is 36.70 chs.

A temp.cor. of secs. 7,12,13 and 18 is set at 79.05 chs. W.from cor.of secs.7,8,17 and 18, as hereinafter described.

A flag 15 lks.West from the temp. sec.cor., brs.N.11°04' W. from point "E," and a flag 6.89 chs.E.from same temp. sec.cor. brs.North from point "E"; therefore, said temp.sec.cor. is 15 lks.E. of the proper point for the establishment of the cor. of secs.7,12,13 and and 18, indicated on diagram at "F."

As an additional check on the establishment of the cor. of secs. 7,12,13 and 18, a bearing N. 47°35'E. is taken from point "E" of the traverse hereinbefore described, to a point on sec.line, bet. secs.7 and 18,32.73 chs. W.from cor. of secs.7,8,17 and 18. This gives a base on the sec.line of 46.47 chs., and a solution of the triangle erected to point "E," gives a length for "E-F" of 36.70 chs.

80.00 Bottom of Diamond Creek Canyon, course W. from NE.

Set an iron post 3 ft.long, 2 ins. in diam., 26 ins.in the ground for cor.of secs. 7,12,13 and 18, marked on brass cap,

T27N

R10W | R9 W

S12 | S 7

S13 | S18

1920

10

Chains.

from which,
SE. face of a black cliff, 20 ft. high, brs. N. 40° W. 117 lks. dist., marked X BO S12 at 10 ft. above base.
A cottonwood tree, 8 ins. in diam., brs. N. 51½° E., 65 lks. dist., marked T27N R 9 W S7 BT.
A limestone boulder, 10x6x4 ft. above ground, brs. S. 28° E., 103 lks. dist., marked X BO S18 on NW face.
A sandstone boulder 5x4x3 ft. above ground, brs. S. 89° 15' W., 136 lks. dist., marked XBO S13 on E. face.

Land, rough and mountainous.
Soil, rocky, 4th rate.
Timber, none.
Undergrowth, very scattering sagebrush and ocotilla.
No grass.

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| Chains. | |
|---|---|
| | From the cor. of Ts. 27 and 28 N., Rs. 8 and 9 W., described in Book "G," |
| | S.89°59'W., on true line, bet. secs. 1 and 36. |
| | Over mountainous land, thru. dense timber and scattering undergrowth. |
| | Descend 215 ft., over NW. slope, to |
| 11.00 | Head of gulch, course NW. |
| | Descend 390 ft., over NW. slope, to |
| 32.50 | Head of gulch, course NW. |
| | Ascend slightly over NE. slope, to |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap, |
| | ¼ S 36<br>S 1<br>1920 |
| | from which, |
| | A pine, 16 ins. in diam., brs. N. 43° E., 57 lks. dist., marked ¼ S 36 BT. |
| | A pine, 8 ins. in diam., brs. S. 62° E., 17 lks. dist., marked ¼ S 1 BT. |
| | Ascend slightly over NE. slope. |
| 42.00 | Point of spur, sloping NW. |
| | Descend 69 ft., over W. slope, to |
| 46.90 | Gulch, 20 lks. wide, course SW. |
| | Descend 150 ft., over S. and SW. slopes, to |
| 73.65 | Gulch, 20 lks. wide, course SW. |
| | Ascend 11 ft., over SW. slope, to |
| 76.10 | Gulch, 20 lks. wide, course SW. |
| | Ascend 64 ft., over SE. slope, to |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 1, 2, 35 and 36, marked on brass cap, |
| | T28N \| R9 W<br>S35 \| S36<br>S 2 \| S 1<br>T27N<br>1920 |
| | from which, |
| | South face of cliff, brs. N. 12° E., 26 lks. dist., marked X BO S36. |
| | A sandstone boulder, 3x3x4 ft. above ground brs. S. 60° E., 21 lks. dist., marked XBO S1 on NW. face. |
| | A sandstone boulder, 3x3x3 ft. above ground, brs. S. 32½° W., 16 lks. dist., marked X BO S2 on NE. face. |
| | A sandstone boulder, 4x4x4 ft. above ground brs. N. 42° W., 15 lks. dist. marked XBO S35 on SE. face. |
| | Land, mountainous. |
| | Soil, rocky, 4th rate. |
| | Timber, dense juniper and pine. |
| | Undergrowth, scattering prickly ash and scrub oak. |
| | No grass. |
| | --- |
| | S. 89° 59' W., on true line, bet. secs. 2 and 35. |
| | Over mountainous land, thru. dense timber and scattering undergrowth. |
| | Ascend slightly over SE. slope, |
| 1.00 | Point of spur, slopes S. |
| | Descend 20 ft., over SW. slope. |
| 5.90 | Gulch, 10 lks. wide, course SE. |
| | Ascend 105 ft. over E. slope. |

12 Part of North bdy. of T. 27 N., R. 9 W. ( East ½).

| Chains. | |
|---|---|
| 11.40 | Spur, slopes S. |
| | Descend 163 ft., over W. slope. |
| 21.45 | Gulch, 10 lks. wide, course S. |
| | Ascend 250 ft., over E. slope. |
| 36.90 | Spur, slopes S. |
| | Descend 103 ft., over W. slope, to |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground, to bed rock, and raise a mound of stone around post, for ¼ sec. cor., marked on brass cap, |
| | ¼ S 35 / S. 2 / 1920 |
| | from which, |
| | A sandstone boulder, 4x4x3 ft. above ground, brs. S. 53½° E., 19 lks. dist., marked X B0 S2 on NW. face. |
| | A sandstone boulder 3x3x2 ft. above ground brs. N. 9½° W., 18 lks. dist., marked X B0 S35 on SE. face. |
| | Descend 145 ft., over W. slope, to |
| 48.80 | Foot of W. slope of spur, brs. N. and S. Thence over nearly level bench, bearing N. and S. |
| | Descend slightly to |
| 67.28 | Leave nearly level bench. |
| | Descend 40 ft., over W. slope, to |
| 71.03 | East rim of Diamond Creek Canyon, brs. N. and S. |
| | Descend 340 ft., over precipitous 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. 2, 3, 34 and 35, marked on brass cap, |
| | T28N R9 W / S34 S35 / S 3 S 2 / T27N / 1920 |
| | from which, |
| | A pine, 10 ins. in diam., brs. N. 30° E., 70 lks. dist., marked T28N R9W S35 BT. |
| | A pine, 12 ins. in diam., brs. S. 19½° E., 59 lks. dist., marked T27N R9W S2 BT. |
| | N. face of rim rock brs. S. 12° W., 35 lks. dist., marked X B0 S3 at 2 ft. above base. |
| | A pine, 14 ins. in diam., brs. N. 49° W., 19 lks. dist., marked T28N R9 W S34 BT. |
| | Land, mountainous. |
| | Soil, rocky, 4th rate. |
| | Timber, dense juniper and pine. |
| | Undergrowth, scattering prickly ash. |
| | No grass. |
| | --- |
| | S. 89° 59' W., on true line, bet. secs. 3 and 34. |
| | Over mountainous land, thru. dense timber and scattering undergrowth. |
| | Descend 377 ft., over precipitous NW. slope. |
| 14.80 | Bottom of Diamond Creek Canyon, 30 lks. wide, course S. |
| | Ascend 86 ft., over SE. slope. |
| 22.00 | Point of spur, slopes S. |
| | Descend 30 ft., over SW. slope. |
| 29.25 | Gulch, 20 lks. wide, course SE., joined at this point by a gulch from the W. Thence alongsides of latter gulch, course E. |
| | Ascend 210 ft., to |
| 40.00 | In gulch, course E. Set an iron post 3 ft. long, 1 in. |

Chains.

in diam., 16 ins. in the ground to bed rock, and raise a mound of stone around post, for ¼ sec. cor., marked on brass cap,

¼ S 34
S 3
1920

from which,
A juniper, 16 ins. in diam., brs. N. 61° W., 35 lks. dist., marked ¼ S 34 BT.
A juniper, 10 ins. in diam., brs. S. 43° E., 125 lks. dist., marked ¼ S 3 BT.

Continue along steep sides of gulch, course E.
Ascend 365 ft. to head of this gulch.

43.50 Top of cliffs, facing E., extends N. and S. from the sides of the gulch at this point. Continue in gulch.

66.20 Head of same gulch, course E. Leave gulch and ascend 305 ft. over steep rocky SE. slope, to

76.41 West rim of Diamond Creek Canyon, brs. N. and S. Thence across nearly level surface of bench.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 14 ins. in the ground to bed rock, and raise a mound of stone around post, for cor. of secs. 3, 4, 33 and 34, marked on brass cap,

T28N | R9W
S33 | S34
S 4 | S 3
T27N
1920

from which,
A pine, 8 ins. in diam., brs. N. 61° E., 145 lks. dist., marked T28N R9W S34 BT.
A pine, 12 ins. in diam., brs. S. 56° E., 94 lks. dist., marked T27N R9W S3 BT.
A pine, 10 ins. in diam., brs. S. 78½° W., 172 lks. dist., marked T27N R9W S4 BT.
A pine, 12 ins. in diam., brs. N. 63° W., 154 lks. dist., marked T28N R9W S33 BT.

Land, E. 76½ chs., mountainous; W. 3½ chs. nearly level.
Soil, rocky, 4th rate.
Timber, dense juniper and pine.
Undergrowth, scattering prickly ash.
No grass.

---

About 20 chs. West from the cor. of secs. 3, 4, 33 and 34, the surface becomes extremely broken and mountainous, rendering continuation of survey impracticable.
The upper rim of the Colorado River Canyon, brs. NW. about 1 mile dist., in which vicinity it turns from N. to W.

---

| Chains. | |
|---|---|
| | From the cor. of secs.1,2, 35 and 36, on the S. bdy. of the Tp., described in Book "F," |
| | N.0°1'W., bet. secs.35 and 36. |
| | Over mountainous land, thru. dense timber and scattering undergrowth, along steep broken rocky E. slope, from high mesa, the E. rim of which brs.N. and S. at about 6 chs.W. of line. |
| | Ascend 100 ft. to |
| 25.05 | Point of spur, slopes E. |
| | Descend 140 ft., over E. slope, to |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground to bed rock, and raise a mound of stone around post, for ¼ sec. cor., marked on brass cap, |
| | ¼<br>S35 \| S36<br>1920 |
| | from which, |
| | A pine, 14 ins. in diam., brs. N. 87°E., 26 lks. dist., marked ¼ S 36 BT. |
| | A pine, 12 ins. in diam., brs. S. 87°W., 44 lks. dist., marked ¼ S 35 BT. |
| | East rim of mesa, brs. W. about 10 chs. dist. |
| | Descend 46 ft., over E. slope, to |
| 46.96 | Gulch, 10 lks. wide, course SE. |
| | Ascend 30 ft., over SE. slope, to |
| 55.60 | Gulch, 10 lks. wide, course SE. |
| | Ascend 30 ft., over SE. slope, to |
| 67.70 | Gulch, 10 lks. wide, course SE. |
| | Ascend 82 ft. over S. slope. |
| 76.00 | Ridge, extending E. from rim of mesa, turns to SE. at this point. |
| | Descend 63 ft., over NE. slope, to |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 25, 26, 35 and 36, marked on brass cap, |
| | T27N. \| R9 W<br>S26 \| S25<br>S35 \| S36<br>1920 |
| | from which, |
| | A pine, 14 ins. in diam., brs. N. 17°E., 56 lks. dist., marked T27N R9W S25 BT. |
| | A pine, 14 ins. in diam., brs. S. 45°E., 93 lks. dist., marked T27N R9W S36 BT. |
| | A pine, 12 ins. in diam., brs. S. 31°W., 89 lks. dist., marked T27N R9W S35 BT. |
| | A pine, 10 ins. in diam. brs. N. 50°W., 40 lks. dist., marked T27N R9W S26 BT. |
| | Land, mountainous. |
| | Soil, rocky, 4th rate. |
| | Timber, dense juniper and pine. |
| | Undergrowth, scattering prickly ash, scrub oak, and cacti. |
| | No grass. |
| | --- |
| | N. 89°59'E., on a random line, bet. secs. 25 and 36. |
| 40.00 | Set temp. ¼ sec. cor. |
| 79.84 | Fall 11 lks. N. of the cor. of secs. 25, 30, 31 and 36, on the E. bdy. of the Tp., described in Book "G." |
| | Thence, |
| | N. 89°56'W., on a true line, bet. secs. 25 and 36. |
| | Over mountainous land, thru. dense timber and scattering undergrowth. |
| | Descend 186 ft., over NW. slope. |

Chains.

12.60 Head of gulch, course NW.
Ascend 25 ft., over E. slope, to
18.44 Ridge, brs. NW. and SE.
Descend 15 ft., over SW. slope.
21.00 Ascend 115 ft., over SE. slope.
26.45 Spur slopes SW.
Descend 86 ft., over W. slope.
31.35 Gulch, 10 lks. wide, course SW.
Ascend 87 ft., over E. slope.
36.25 Spur, slopes SW.
Descend 22? ft., over W. slope.
39.35 Head of gulch, 10 lks. wide, course SW.
Ascend 5 ft. over SE. slope, to
39.92 Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in ground to bed rock, and raise a mound of stone around post for ¼ sec. cor., marked on brass cap,

$$\frac{\frac{1}{4}\ S\ 25}{S\ 36}$$
1920

from which,
A pine, 6 ins. in diam., brs. N. 74° W., 30 lks. dist., marked ¼ S 25 BT.
A pine, 14 ins. in diam., brs. S. 10° E., 72 lks. dist., marked ¼ S 36 BT.
Ascend 20 ft., over SE. slope.
41.15 Spur, slopes SW.
Descend 15 ft., over W. slope.
44.07 Gulch, 12 lks. wide, course SW.
Ascend 130 ft., over SE. slope.
52.30 Point of spur, slopes SW.
Descend 41 ft., over W. slope.
55.80 Gulch, 30 lks. wide, course SE.
Ascend 60 ft., over SE. slope.
61.20 Ridge, brs. NE. and SW.
Descend 87 ft., over NW. slope.
66.20 Gulch, 10 lks. wide, course N.
Ascend 94 ft., over E. slope.
70.10 Point of spur, slopes NE.
Descend 28 ft., over NW. slope.
74.85 Head of gulch, course NE.
Ascend 139 ft. over SE. slope, to
79.84 The cor. of secs. 25, 26, 35 and 36.
Land, mountainous.
Soil, rocky, 4th rate.
Timber, dense juniper and pine.
Undergrowth, scattering prickly ash and scrub oak.
No grass.

---

N. 0° 1' W., bet. secs. 25 and 26.
Over mountainous land, thru. dense timber and scattering undergrowth.
Ascend 40 ft., over SE. slope.
9.17 Descend 156 ft., over NE. slope.
17.10 Gulch, 10 lks. wide, course SE.
Ascend 167 ft., over S. slope.
30.40 Spur, slopes SE. and head of gulch, course N.
Descend 198 ft. to ¼ sec. cor. along the side of this gulch.
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap,

$$\frac{\frac{1}{4}}{S26 \mid S25}$$
1920

from which,

Chains.

A pine, 14 ins. in diam., brs.S.21°E.,5 lks. dist., marked ¼ S 25 BT.
A pine, 8 ins. in diam., brs.S.40°W.,28 lks. dist., marked ¼ S 26 BT.

Continue along sides of gulch, course N.
Descend 126 ft., to
49.80 Leave same gulch,10 lks.wide, course NE. from S.
Descend 20 ft.,over NE.slope,to
56.10 Gulch,10 lks.wide, course NE.
Ascend 20 ft., over SE.slope.
61.40 Point of spur,slopes E.
Descend 210 ft.,over NE.slope,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. 23,24, 25 and 26, marked on brass cap,

T27N | R9W
S23 | S24
S26 | S25
1920

from which,
A sandstone boulder 3x3x½ ft. above ground,brs. N.31½°E., 24 lks.dist.,marked X BO S24 on SW.face.
A pine, 8 ins. in diam.,brs.S.47½°E.,85 lks. dist., marked T27N R9W S25 BT.
A sandstone boulder 6x4x4 ft. above ground,brs. S.31½°W.,90 lks.dist., marked X BO S26 on NE.face.
A pine,8 ins. in diam.,brs.N.72½°W.,43 lks. dist.,marked T27N R9W S23 BT.

Land, mountainous.
Soil,rocky, 4th rate.
Timber, dense juniper and pine.
Undergrowth, scattering prickly ash and scrub oak.
No grass.

---

S.89°56'E., on a random line, bet. secs.24 and 25.
40.00 Set temp.¼ sec.cor.
80.14 Fall 26 lks.N. of the cor.of secs. 19,24, 25 and 30,on the E. bdy.of the Tp., described in Book "G."
Thence,
N.89°45'W.,on a true line, bet. secs.24 and 25.
Over mountainous land, thru.dense timber and scattering undergrowth.
Descend 538 ft., over NW.slope.
23.55 Gulch,10 lks.wide, course NW.
Ascend 13 ft.,over NE.slope.
24.90 Point of spur, slopes NW.
Descend 22 ft.,over NW.slope.
27.60 Gulch,10 lks.wide, course NW.
Ascend 100 ft.,over NE.slope, to
40.07 Spur,sloping NW. 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 S 24
S 25
1920

from which,
A pine, 10 ins,in diam.,brs.N.22°W., 88 lks. dist., marked ¼ S 24 BT.
A pine, 8 ins. in diam.,brs.South, 46 lks. dist., marked ¼ S 25 BT.

Chains.

Descend 154 ft., over W. slope.
51.45 Gulch, 12 lks. wide, course NW.
Ascend 75 ft., over NE. slope.
54.75 Spur, slopes NW.
Descend 250 ft., over W. slope.
68.50 Gulch, 20 lks. wide, course NW.
Ascend 40 ft., over NE. slope, to
80.14 The cor. of secs. 23, 24, 25 and 26.
Land, mountainous.
Soil, rocky, 4th rate.
Timber, dense juniper and pine.
Undergrowth, scattering prickly ash, and scrub oak.
No grass.

---

N. 0° 1' W., bet. secs. 23 and 24.
Over mountainous land, thru. dense timber and scattering undergrowth.
Descend 154 ft., over NE. slope.
17.70 Gulch, 20 lks. wide, course NW.
Ascend 20 ft., over NW. slope, to
24.00 Gulch, 20 lks. wide, course NW. E. end of level land, bearing E. and W. Leave dense, and enter scattering timber; thence across level land, to
39.50 Gulch, 20 lks. wide, course W. Leave level, and enter mountainous land.
Ascend 5 ft., over SW. slope, to
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap,

S23 | ¼ | S24
1920

from which,
A pine, 14 ins. in diam., brs. S. 65½° E., 108 lks. dist., marked ¼ S 24 BT.
A pine, 8 ins. in diam., brs. N. 61½° W., 138 lks. dist., marked ¼ S 23 BT.
Ascend 106 ft., over SW. slope.
59.40 Point of spur, slopes SW.
Descend 25 ft., over NW. slope.
65.70 Gulch, 15 lks. wide, course SW.
Ascend 60 ft., over SE. slope, to
77.00 Gulch, 10 lks. wide, course SE.
Ascend 37 ft., over SE. slope, to
80.00 Set an iron post 3 ft. long, 2 ins. in diam., 6 ins. in the ground to bed rock, and raise a mound of stone around post, for cor. of secs. 13, 14, 23 and 24, marked on brass cap,

T27N | R9W
S14 | S13
S23 | S24
1920

from which,
A pine, 10 ins. in diam., brs. N. 29° E., 89 lks. dist., marked T27N R9W S13 BT.
A pine, 8 ins. in diam., brs. S. 3° E., 162 lks. dist., marked T27N R9W S24 BT.
A pine, 8 ins. in diam., brs. S. 68° W., 109 lks. dist., marked T27N R9W S23 BT.
A pine, 14 ins. in diam., brs. N. 29° W., 32 lks. dist., marked T27N R9W S14 BT.
Land, S. 24 chs. and N. 40½ chs., mountainous; remainder, level.
Soil, rocky, 4th rate.

18 Part of Subdivision lines of Tp. 27 N.,R.9 W.

| Chains. | |
|---|---|
| | Timber, juniper and pine, dense in S.24 chs.; scattering elsewhere. |
| | Undergrowth, scattering prickly ash and scrub oak. |
| | No grass. |
| | --- |
| | S.89°45'E., on a random line, bet. secs.13 and 24. |
| 40.00 | Set temp. ¼ sec.cor. |
| 80.26 | Intersect the cor. of secs. 13,18,19 and 24, on E.bdy.of the Tp., described in Book "C." |
| | Thence, |
| | N.89°45'W., on a true line, bet. secs. 13 and 24. |
| | Over mountainous land, thru. dense timber and scattering undergrowth. |
| | Descend 375 ft.,over NW.slope. |
| 26.40 | Gulch,20 lks.wide, course SW. |
| | Ascend 32 ft.,over SE.slope. |
| 30.00 | Spur, slopes SW. |
| | Descend 50 ft.,over W.slope. |
| 32.10 | Gulch,10 lks.wide, course SW. Asc.48 ft.,over SE.slope. |
| 35.00 | Spur, slopes SW. Desc.93 ft.,over W.slope, to |
| 40.19 | Set an iron post, 3 ft.long, 1 in. in diam., 6 ins.in the ground to bed rock, and raise a mound of stone around post, for ¼ sec.cor., marked on brass cap, |
| | ¼ S 13 / S 24 / 1920 |
| | from which, |
| | A pine, 10 ins. in diam., brs.N.5°E.,100 lks. dist., marked ¼ S 13 BT. |
| | A pine,12 ins.in diam.,brs.S.13°W.,25 lks. dist., marked ¼ S 24 BT. |
| | Descend 108 ft., over W.slope. |
| 46.50 | Gulch,10 lks.wide, course SW. |
| | Ascend 126 ft.,over SE.slope. |
| 51.50 | Spur,slopes SW. |
| | Descend 54 ft.,over W.slope. |
| 54.20 | Gulch,20 lks.wide, course SW. |
| | Ascend 36 ft.,over SE. slope. |
| 57.70 | Spur,slopes SW. |
| | Descend 257 ft., over SW.slope. |
| 73.00 | Gulch,20 lks.wide, course SW. |
| | Ascend 15 ft.,over SE.slope,to |
| 80.26 | The cor.of secs. 13,14,23 and 24. |
| | Land,mountainous. |
| | Soil,rocky, 4th rate. |
| | Timber, dense juniper and pine. |
| | Undergrowth, scattering prickly ash and scrub oak. |
| | No grass. |
| | --- |
| | N.0°1'W., bet. secs. 13 and 14. |
| | Over mountainous land, thru. dense timber and scattering undergrowth. |
| | Ascend 149 ft., over SE.slope,to |
| 20.96 | Gulch,10 lks.wide, course SE. |
| | Ascend 234 ft.,over S.slope. |
| 34.98 | Ridge, brs.E. and W. extending E. from a high irregular shaped peak, known as "Tower of Babylon," the top of which brs.W. about 20 chs.dist. |
| | Descend 106 ft.,over NE.slope to ½ sec. cor. |
| 35.20 | Head of gulch, course NE. for 1.50 chs., thence N. |

Chains.

40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap,

$$\frac{S14 \mid S13}{1920}$$

from which,
A pine, 14 ins. in diam., brs. S. 30° E., 54 lks. dist., marked ¼ S 13 BT.
A pine, 16 ins. in diam., brs. S. 7° W., 26 lks. dist., marked ¼ S 14 BT.

Thence over NE. slope of a spur, the top of which slopes N. at about 4 chs. W. of line.
Descend 598 ft. to
64.54 Thence over E. slope, descending 20 ft. to
76.80 Rim of canyon, brs. N. 15° W. and S. 15° E.
Descend 132 ft., over steep NE. slope, to
80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 11, 12, 13 and 14, marked on brass cap,

$$\begin{array}{c|c} T27N & R9W \\ \hline S11 & S12 \\ \hline S14 & S13 \end{array}$$

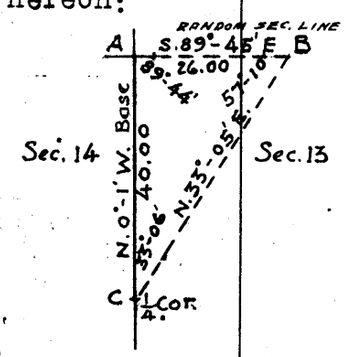
1920

from which,
A pine, 6 ins. in diam., brs. N. 80½° E., 98 lks. dist., marked T27N R9W S12 BT.
A pine, 8 ins. in diam., brs. S. 80° W., 45 lks. dist., marked T27N R9W S14 BT.
A sandstone boulder, 6x6x5 ft. above ground, brs. N. 65½° W., 50 lks. dist., marked X BO S11 on SE. face.
N. face of cliff, 10 ft. high, brs. S. 10° E., 38 lks. dist., marked X BO S13 at 5 ft. above base.

Land, mountainous.
Soil, rocky, 4th rate.
Timber, dense juniper and pine.
Undergrowth, scattering prickly ash and scrub oak.
No grass.

---

S. 89° 45' E., on a random line, bet. secs. 12 and 13.
4.85 Bottom of canyon, course NW. Beyond this point, the random sec. line passes over cliffs on E. wall of canyon, where chaining is impracticable; therefore, discontinue chaining, and triangulate measurement as described as follows, and as shown on the diagram hereon:




From cor. of secs. 11, 12, 13 and 14, indicated on diagram at "A," line in a flag "B" S. 89° 45' E.
Vertical angle from "A" to "B" = +17½°.
From the ¼ sec. cor. of secs. 13 and 14, indicated on diagram at "C" the flag at "B" brs. N. 33° 05' E.
The base "C-A" of the triangle "A-B-C" is therefore N. 0° 1' W., 40.00 chs.
Included angles A, B, C are 89° 44', 57° 10' and 33° 06', the sum of which is 180° 00'.
Triangulated measurement on random sec. line is obtained by

$$\frac{\text{sine } 33° 06' \times \text{Base}}{\text{sine } 57° 10'} \text{ or } \frac{.54610 \times 40.00}{.84025} = 26.00 \text{ chs.}$$

Chains.

26.00 Triangulation point "B".
Continue line and measuremrnt, by chaining.
40.00 Set temp. ¼ sec.cor.
80.12 Fall 7 lks. N. of the cor. of secs. 7, 12, 13 and 18, on the E.bdy. of the Tp., described in Book "G."
Thence,
N. 89° 42' W., on a true line, bet. secs. 12 and 13.
Over mountainous land, thru. dense timber and scattering undergrowth.
Descend 207 ft., over SW. slope, to
10.90 Gulch, 20 lks. wide, course NW.
Ascend 15 ft., over E. slope.
12.50 Descend 80 ft., over N. slope.
19.00 Ascend 29 ft., over NE. slope.
24.10 Spur, slopes NW.
Descend 55 ft., over W. slope.
27.05 Gulch, 20 lks. wide, course NW.
Ascend 104 ft., over NE. slope.
31.00 Descend 34 ft., over NW. slope.
33.00 Gulch, 10 lks. wide, course N. Leave dense, and enter scattering timber.
Ascend 35 ft., over E. slope.
36.00 Spur, slopes N.
Descend 90 ft., over W. slope, to
40.06 Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground to bed rock, and raise a mound of stone around post, for ¼ sec.cor., marked on brass cap,

¼ S 12
S 13
1920

from which,
A pine, 10 ins. in diam., brs. N. 10° W., 136 lks. dist., marked ¼ S 12 BT.
A pine, 10 ins. in diam., brs. S. 11° W., 185 lks. dist., marked ¼ S 13 BT.
Descend 190 ft., over W. slope.
45.60 Gulch, 10 lks. wide, course N.
Ascend 205 ft., over E. slope.
53.80 Spur, slopes N. [illegible]
Descend 630 ft., over steep W. slope broken by cliffs.
54.12 Triangulation point. Discontinue chaining. Measurement to sec.cor. by triangulation hereinbefore described.
75.30 Bottom of canyon, 30 lks. wide, course NW.
Ascend 80 ft., over NE. slope, to
80.12 The cor. of secs. 11, 12, 13 and 14.
Land, mountainous.
Soil, very rocky, 4th rate.
Timber, juniper and pine, dense in E. 33 chs., scattering elsewhere.
Undergrowth, scattering prickly ash and scrub oak.
No grass.

---

N. 0° 1' W., bet. secs. 11 and 12.
Over mountainous land, thru. scattering timber and undergrowth.
Descend 122 ft., over NE. slope.
7.90 Bottom of canyon, 30 lks. wide, course NW.
Ascend 100 ft., over SW. slope.
14.20 Spur, slopes NW.
Descend 310 ft., over N. slope.
32.80 Bottom of canyon, course SW. joined at this point by a depp ravine from SE.
Ascend 202 ft., over S. slope, to
40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec.cor., marked on brass cap,

Chains.

$\frac{1}{4}$
S11 | S12
1920

from which,
A sandstone boulder 5x4x3 ft. above ground, brs. N.37½°E., 29 lks.dist., marked X BO S12 on SW.face.
East face of cliff, 5ft.high, brs.N.83°W.,8 lks.dist.,marked X BO S11 near top.

Ascend 377 ft.,over S.slope.

62.10 Ridge, brs.E.and W. Leave scattering, and enter dense timber.

Descend 164 ft.,over N.slope.

73.80 Gulch,10 lks.wide, course NW.

Ascend 25 ft.,over SW.slope,to

80.00 Set an iron post, 3 ft.long, 2 ins. in diam., 24 ins.in the ground, for cor.of secs. 1,2,11 and 12, marked on on brass cap,

T27N | R9W
S 2 | S 1
S11 | S12
1920

from which,
A pine, 10 ins. in diam.,brs.N.29°E.,47 lks. dist.,marked T27N R9W S1 BT.
A pine,8 ins. in diam.,brs.S.53°E.,127 lks. dist., marked T27N R9W S12 BT.
A pine, 12 ins. in diam., brs. S.73°W., 41 lks. dist., marked T27N R9W S11 BT.
A pine, 10 ins. in diam.,brs.N. 45° W.,25 lks. dist., marked T27N R9W S2 BT.

Land,mountainous.
Soil,rocky, 4th rate.
Timber, juniper and pine, scattering in S.62 chs.;dense in N.18 chs.
Undergrowth, scattering prickly ash and scrub oak.
No grass.

---

S.89°42' E., on a random line, bet. secs.1 and 12.

40.00 Set temp.¼ sec.cor.

80.24 Fall 30 lks.S. of the cor.of secs.1,6,7 and 12, on the E. bdy.of the Tp., described in Book "G."

Thence,
N.89°55'W., on a true line, bet. secs.1 and 12.
Over mountainous land, thru. dense timber and scattering undergrowth, along S.slope of spur, the top of which slopes W. at about 100 lks.N. of line.

Descend 500 ft.to

38.10 Gulch,8 lks.wide, course NW. near head.

Ascend 16 ft.over NE.slope.

39.10 Point of spur,slopes NW.

Descend 25 ft.,over W.slope,to

40.12 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 S 1
S 12
1920

from which,
A pine, 8 ins. in diam.,brs.N.65° W.,21 lks. dist., marked ¼ S 1 BT.
A pine,10 ins. in diam., brs.S.72° W., 8 lks. dist., marked ¼ S 12 BT.

Descend 104 ft., over W.slope.

| Chains. | |
|---|---|
| 47.80 | Gulch, 20 lks.wide, course SW. |
| | Ascend 64 ft., over SE.slope. |
| 50.60 | Descend 227 ft., over S. and SW.slopes to |
| 80.24 | The cor.of secs. 1,2,11 and 12. |
| | Land,mountainous. |
| | Soil,rocky, 4th rate. |
| | Timber, dense juniper and pine. |
| | Undergrowth, scattering prickly ash and scrub oak. |
| | No grass. |
| | --- |
| | N.0°1'W.,on a random line, bet. secs.1 and 2. |
| 40.00 | Set temp.¼ sec.cor. |
| 80.12 | Fall 42 lks.W. of the cor.of secs. 1,2,35 and 36,on the N.bdy.of the Tp., hereinbefore described. |
| | Thence, |
| | S.0° 17'W., on a true line, bet. secs. 1 and 2. |
| | Over mountainous land, thru. dense timber and scattering undergrowth. |
| | Descend 89 ft.,over SE.slope. |
| 3.60 | Gulch,20 lks.wide, course SW. |
| | Ascend 38 ft.,over NW.slope. |
| 10.00 | Point of spur, slopes SW. |
| | Descend 20 ft.,over S.slope. |
| 11.40 | Gulch,20 lks.wide, course SW. |
| | Ascend 67 ft., over NW.slope. |
| 24.60 | Descend 110 ft.,over SW.slope. |
| 32.80 | Gulch,10 lks.wide, course SW. |
| | Ascend 38 ft.,over NW.slope, to |
| 40.12 | Set an iron post 3 ft.long, 1 in. in diam., 26 ins.in the ground, for ¼ sec.cor., marked on brass cap, |
| | S 2 \| ¼ \| S 1 |
| | 1920 |
| | from which, |
| | A pine,10 ins.in diam.,brs.N.67°E.,50 lks. dist., marked ¼ S 1 BT. |
| | A pine,8 ins.in diam.,brs.N.55°W.,17 lks. dist., marked ¼ S 2 BT. |
| | Descend 27 ft.,over SW.slope. |
| 41.45 | Gulch,10 lks.wide, course SW. |
| | Ascend 60 ft., over W.slope,to |
| 49.00 | Gulch,10 lks.wide, course W. |
| | Ascend 76 ft.,over NW.slope. |
| 52.50 | Point of spur,slopes SW. from E. |
| | Descend 75 ft.,over S.slope. |
| 67.20 | Gulch,20 lks.wide, course W. |
| | Ascend 40 ft. over N.slope. |
| 75.10 | Spur,slopes NW. from E. |
| | Descend 63 ft.,over SW.slope,to |
| 80.12 | The cor.of secs.1,2,11 and 12. |
| | Land,mountainous. |
| | Soil,very rocky, 4th rate. |
| | Timber, dense juniper and pine. |
| | Undergrowth, scattering prickly ash and scrub oak. |
| | No grass. |
| | --- |
| | From cor.of secs.2,3, 34 and 35, on the S. bdy.of the Tp., described in Book "F," |
| | N.0°1'W., bet, secs.34 and 35. |
| | Over mountainous aland, thru.dense timber and scattering undergrowth, along steep broken W. and NW.slopes,from high mesa, the W.rim of which brs. N.and S. at about |
| | 4 chs.E.of line. |

Chains.

Descend 400 ft., to
40.00 Set an iron post, 3 ft.long, 1 in. in diam., 12 ins. in the ground, to bed rock, and raise a mound of stone around post, for ¼ sec.cor., marked on brass cap,

S34 | S35

1920

from which,
A pine,12 ins. in diam.,brs.S.43½°E.,95 lks. dist., marked ¼ S 35 BT.
A pine, 10 ins. in diam.,brs.S.29½°W.,71 lks. dist., marked ¼ S 34 BT.
Descend 99 ft.,over NW.slope.
50.95 Bottom of ravine, 30 lks.wide, course NW.
Ascend 30 ft.over W.slope,to
61.00 Gully,20 lks.wide, course W.
Ascend 25 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, and raise a mound of stone around post, for cor.of secs.26, 27, 34 and 35, marked on brass cap,

T27N | R9 W
S27 | S26
S34 | S35

1920

from which,
A pine,10 ins. in diam.,brs.N.56°E., 45 lks. dist., marked T27N R9W S26 BT.
A juniper, 14 ins. in diam., brs.S. 35½°E.,109 lks.dist., marked T27N R9W S35 BT.
A juniper, 6 ins. in diam., bears S.19¾°W.,52 lks. dist., marked T27N R9W S34 BT.
A pine, 10 ins.in diam.,brs.N.64¼°W., 29 lks. dist., marked T27N R9W S27 BT.
Land, mountainous.
Soil, very rocky, 4th rate.
Timber, dense juniper and pine.
Undergrowth, scattering prickly ash, scrub oak,sagebrush and cacti.
No grass.

---

N. 89° 59' E., on a random line, bet. secs.26 and 35.
40.00 Set temp. ¼ sec.cor.
80.26 Fall,15 lks.N. of the cor.of secs. 25,26,35 and 36.
Thence,
N.89°55'W., on a true line, bet.secs. 26 and 35.
Over mountainous land, thru.dense timber and scattering undergrowth.
Ascend 113 ft., over steep SE.slope,to
2.46 Top of steep ascent. Thence over NE. and E. slopes, ascending 102 ft.to
15.45 East rim of mesa, brs.N. and S. Thence over nearly level top of mesa, bearing N. and S.
40.13 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 S 26
S 35

1920

Chains.

from which,
A pine, 12 ins. in diam., brs. N. 68½° E., 19 lks. dist., marked ¼ S 26 B T.
A pine, 10 ins. in diam., brs. S. 77½° W., 20 lks. dist., marked ¼ S 35 B T.

Continue over nearly level top of mesa.

49.60 W. rim of mesa, brs. N. and S. Leave nearly level top of mesa, and enter mountainous land.

Descend 600 ft., over W. slope, to

80.26 The cor. of secs. 26, 27, 34 and 35.

Land, E. 15½ chs. and S. 30½ chs. mountainous; remainder, nearly level.

Soil, very rocky, 4th rate.

Timber, dense juniper and pine.

Undergrowth, scattering prickly ash, scrub oak and cacti.

No grass.

---

N. 0° 1' W., bet. secs. 26 and 27.

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

Descend 74 ft., over NW. slope.

4.90 Gulch, course SW.

Ascend 114 ft., over SW. slope.

16.80 Spur, slopes NW.

Descend 360 ft., over N. slope, to

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground, to bed rock, and raise a mound of stone around post, for ¼ sec. cor., marked on brass cap,

¼
S27 | S26
1920

from which,
A pine, 10 ins. in diam., brs. S. 89½° E., 40 lks. dist., marked ¼ S 26 BT.
A pine, 10 ins. in diam., brs. S. 11½° W., 62 lks. dist., marked ¼ S 27 BT.

Descend 10 ft., over N. slope,

42.30 Bottom of ravine, 10 lks. wide, course NW.

Ascend 74 ft., over SW. slope.

59.95 Spur, slopes NW.

Descend 135 ft., over N. slope, to

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in the ground, for cor. of secs. 22, 23, 26 and 27, marked on brass cap,

T27N | R9 W
S22 | S23
---|---
S27 | S26
1920

from which,
A pine, 8 ins. in diam., brs. N. 79½° E., 78 lks. dist., marked T27N R9W S23 BT.
A pine, 12 ins. in diam., bears S. 54° E., 26 lks. dist., marked T27N R9 S26 BT.
A pine, 14 ins. in diam., brs. S. 23½° W., 165 lks. dist., marked T27N R9W S27 BT.
A pine, 10 ins. in diam., brs. N. 61½° W., 37 lks. dist., marked T27N R9W S22 BT.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, dense pine and juniper,

Undergrowth, scattering sagebrush and cacti.

Poor grass.

---

Chains.

S. 89° 55' E., on a random line bet. secs. 23 and 26.
40.00 Set trmp. ¼ sec.cor.
80.24 Fall 7 lks. S. of the cor. of secs. 23, 24, 25 and 26.
Thence,
N. 89°58' W., on a true line, bet. secs. 23 and 26.
Over mountainous land, thru. dense timber and scattering undergrowth.
Ascend 75 ft. over NE. and E. slopes.
23.00 Spur, slopes NE.
Descend 115 ft., over NW. slope to ¼ sec.cor.
30.00 N. end of mesa brs. S. about 15 chs. dist.
40.12 Set aniron post, 3 ft. long, 1 in. in diam., 10 ins. in the ground to bed rock, and raise a mound of stone around post, for ¼ sec.cor., marked on brass cap,

¼ | S 23
S 26
1920

from which,
A pine, 6 ins. in diam., brs. N. 88½°W., 44 lks. dist., marked ¼ S 23 BT.
A pine, 5 ins. in diam., brs. S. 74° E., 56 lks. dist., marked ¼ S 26 BT.
Descend 301 ft., over NW. and N. slopes to sec.cor.
57.85 Barb wire fence brs. NW. and SE.
Head of canyon, course NW., brs. NW. about 6 chs. dist.
80.24 The cor. of secs. 22, 23, 26 and 27.
Land, mountainous.
Soil, very rocky, 4th rate.
Timber, dense juniper and pine.
Undergrowth, scattering prickly ash, sagebrush and cacti.
Poor grass.

---

N. 0°1' W., bet. secs. 22 and 23.
Over mountainous land, thru. dense timber and scattering undergrowth.
Descend 50 ft., over N. slope, to
8.00 SW. or left rim of canyon brs. E. and NW.
Descend 270 ft., over broken N. slope.
27.45 Bottom of canyon, 50 lks. wide, course NW.
Ascend 91 ft., over SW. slope, to
35.37 Foot of cliffs, bearing NW. and SE.
Ascend 120 ft. over SW. face of cliffs to top of same.
40.00 Point for ¼ sec.cor. falls on face of cliff, and is inaccessible. Therefore, at
41.23 Top of cliffs, bearing NW. and SE. facing SW., and forming NE. or right rim of canyon,
Set an iron post, 3 ft. long, 1 in. in diam., on surface rock, and raise a mound of stone around post for witness cor. to ¼ sec.cor., marked on brass cap,

¼
S22 | S23
W | C
1920

from which,
A pine, 10 ins. in diam., brs. S. 82° E., 59 lks. dist., marked ¼ S 23 BT.
A pine, 8 ins. in diam., brs. S. 63½°W., 29 lks. dist., marked ¼ S 22 BT.
Ascend 52 ft., over SW. slope.
46.45 Point of spur, slopes W.
Descend 95 ft., over NW. slope, to
64.14

Chains.

64.14 S. or left rim of canyon, ors. E. and W.
Descend 485 ft. over cliffs, facing N.. Leave dense, and enter scattering timber.

76.20 Bottom of canyon, course W.
Ascend 130 ft., over SW. slope, to

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., on surface rock, and raise a mound of stone around post, for cor. of secs. 14, 15, 22 and 23, marked on brass cap,

T27N \| R9W
S15 \| S14
S22 \| S23
1920

and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
Land, mountainous.
Soil, rocky, 4th rate.
Timber, juniper and pine, dense in S. 64 chs.; scattering in N. 16 chs.
Undergrowth, scattering prickly ash, sagebrush and cacti.
Poor grass.

---

S. 89° 58' E., on a random line, bet. secs. 14 and 23.

40.00 Set temp. ¼ sec. cor.

80.12 Fall 26 lks. S. of the cor. of secs. 13, 14, 23 and 24.
Thence,
S. 89° 51' W., on a true line, bet. secs. 14 and 23.
Over mountainous land, thru. scattering timber and undergrowth.
Descend 10 ft., over SE. slope.

1.10 Gulch, 20 lks. wide, course SE.
Ascend 56 ft. over SE. slope.

8.00 Descend 40 ft., over SW. slope.

13.00 Ascend 25 ft., over SE. slope.

23.00 Spur, slopes SW. The S. end of the top of an irregular-shaped peak, known as "Tower of Babylon" brs. N. about 23 chs. dist.
Descend 54 ft., over W. slope, to

31.80 Top of cliffs, bearing N. and S. facing W., forming head of canyon, course W.
Descend 241 ft., over W. slope, to

40.06 Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground to bed rock, and raise a mound of stone around post, for ¼ sec. cor., marked on brass cap,

¼ S 14
S 23
1920

from which,
S. face of cliff, brs. N. 55° E., 24 lks. dist., marked X BO S14.
A pine, 8 ins. in diam., brs. S. 54° E., 75 lks. dist., marked ¼ S 23 BT.
Continue in canyon to sec. cor.
Descend 170 ft., over SW. slope, to

53.70 Bottom of canyon, 50 lks. wide, course SW, for 2 chs., thence west.
Ascend 31 ft., over SE. slope.

58.50 Descend 93 ft., over SW. slope.

65.90 Gulch, 20 lks. wide, course SW.
Ascend 75 ft., over SE. slope.

Chains.

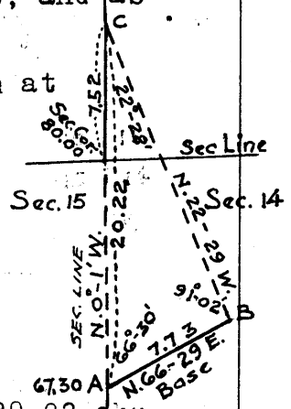
71.75 Descend 110 ft., over SW. slope, to
80.12 The cor. of secs. 14, 15, 22 and 23.
Land, mountainous.
Soil, rocky, 4th rate.
Timber, scattering juniper and pine.
Undergrowth, scattering prickly ash and scrub oak.
No grass.

---

N.0°1'W., bet. secs. 14 and 15.
Over mountainous land, thru. scattering timber and undergrowth.
Ascend 167 ft. over SW. slope, to
7.40 Point of spur, sloping SW.
Descend 37 ft., over W. slope.
12.80 Gulch, course S.10°W.
Ascend 176 ft., over SE. slope, to
21.47 Right rim of gulch, brs. NE. and SW. Leave scattering, and enter dense timber.
Ascend 63 ft., over S. and SW. slopes, to
40.00 Set an iron post 3 ft. long, 1 in. in diam., on surface rock, and raise a mound of stone around post, for ¼ sec. cor., marked on brass cap,

¼
S15 | S14
1920

from which,
A pine, 8 ins. in diam., brs. N.58°W., 63 lks. dist., marked ¼ S 15 BT.
A pine, 10 ins. in diam., brs. N.87½°E., 78 lks. dist., marked ¼ S 14 BT.
Ascend 15 ft., over SW. slope.
45.30 Spur, slopes NW.
Descend 145 ft., over N. slope, to
67.30 Top of cliffs, and S. or left rim of canyon, bearing NE. and SW., facing NW.
The line beyond this point passes over face of cliffs on canyon wall, and it is impracticable to continue chaining; therefore, triangulate the measurement to the sec. cor., as described as follows, and as shown on the diagram hereon:




From 67.30 ch. station indicated on diagram at "A", measure a Base N.66°29'E., 7.73 chs. to point "B."
Set flag ahead on sec. line at "C,".
Bearing "B-C" = N.22°29'W.
Included angles of triangle "A-B-C" are 66°30', 91°02' and 22°28', the sum of which is 180°00'.
Triangulated measurement from "A" to "C" is obtained by

$$\frac{\text{sine } 91°02' \times \text{Base}}{\text{sine } 22°28'} \text{ or } \frac{.99984 \times 7.73}{.38215} = 20.22 \text{ chs.},$$

which added to 67.30 chs., gives 87.52 chs., N.0°1' W. from the cor. of secs. 14, 15, 22 and 23, or 7.52 chs. N.0°1'W. from the point for cor. of secs. 10, 11, 14 and 15,
From triangulation point "C" chain measurement, S.0°1'E., 7.52 chs. to
80.00 About 250 ft. below 67.30 ch. station, set an iron post 3 ft. long, 2 ins. in diam., on surface rock, and raise a mound of stone around post, for cor. of secs. 10, 11, 14 and 15, marked on brass cap,

27 | 10
11 | 14
1920

| Chains. | |
|---|---|
| | T27N \| R9 W<br>S10 \| S11<br>S15 \| S14<br>1920 |
| | from which,<br>A pine, 12 ins. in diam., brs. N. 23¾° E., 26 lks. dist., marked T27N R9W S11 BT.<br>A pine, 10 ins. in diam., brs. S. 63¼° E., 29 lks. dist., marked T27N R9W S14 BT.<br>A pine, 12 ins. in diam., brd. S. 71° W., 171 lks. dist., marked T27N R9W S15 BT.<br>A pine, 12 ins. in diam., brs. N. 68¾° W., 45 lks. dist., marked T27N R9W S10 BT. |
| | Land, mountainous.<br>Soil, rocky, 4th rate.<br>Timber, juniper and pine, scattering in S. 21½ chs.; dense in remainder.<br>Undergrowth, scattering prickly ash and scrub oak.<br>No grass. |
| | --- |
| | N. 89° 51' E., on a random line, bet. secs. 11 and 14. |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.20 | Fall 3 lks. S. of the cor. of secs. 11, 12, 13 and 14.<br>Thence,<br>S. 89° 50' W., on a true line, bet. secs. 11 and 14.<br>Over mountainous land, thru. scattering timber and undergrowth.<br>Ascend 75 ft., over NE. slope. |
| 3.79 | Point of spur; slopes N.<br>Descend 37 ft., over NW. slope. |
| 5.61 | Head of gulch, course N.<br>Ascend 120 ft., over NE. slope. |
| 13.71 | Point of spur, slopes N.<br>Descend 40 ft., over NW. slope, to |
| 18.30 | South or left rim of canyon, brs. NE. and SW.<br>Descend 610 ft., over NW. slope. |
| 39.50 | Bottom of ravine, 30 lks. wide, course N. into bottom of canyon, about 20 chs. N.<br>Ascend 10 ft., over E. slope, to |
| 40.10 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, deposit a stone marked with a cross (x) at base of post, for ¼ sec. cor., marked on brass cap,<br>¼ S 11<br>S 14<br>1920<br>from which,<br>A granite boulder, 8x6x6 ft. above ground, brs. S. 51¾° W., 80 lks. dist., marked XBO. S14 on NE. face. |
| | Ascend 368 ft., over E. slope. |
| 50.90 | Point of spur, sloping N., and rim of canyon, bearing SE. and SW. Descend 672 ft. over steep broken NW. slope to |
| 80.20 | The cor. of secs. 10, 11, 14 and 15.<br>Land, mountainous.<br>Soil, very rocky, 4th rate.<br>Timber, scattering juniper and pine.<br>Undergrowth, scattering prickly ash and sagebrush.<br>No grass. |
| | --- |
| | N. 0° 1' W., bet. secs. 10 and 11.<br>Over mountainous land, thru. scattering timber and undergrowth. |

Chains.

Descend 233 ft., over steep broken NW. slope.
16.65 Gulch, 10 lks. wide, course W.
Ascend 114 ft., over SW. slope.
20.80 Point of spur, sloping W., and top of perpendicular cliff, bearing NE. and SW., facing NW.
Descend 200 ft. to
21.00 Bottom of side canyon, 40 lks. wide, course SW. for 10 chs.
Thence west into Diamond Creek Canyon.
Ascend 200 ft. over face of perpendicular cliff.
22.80 Top of perpendicular cliff, bearing NE. and SW. facing SE.
Ascend 290 ft., over S. slope, to
40.00 Set an iron post, 3 ft. long, 1 in. in diam., over cross (x) marked on surface rock, and raise a mound of stone around post, for ¼ sec. cor., marked on brass cap,

S10 | ¼ | S11

1920

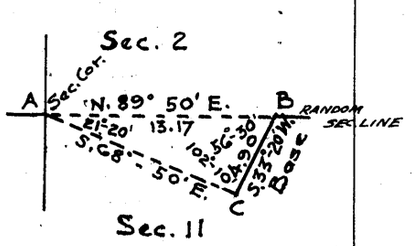
Thence over cliffs, bearing E. and W., facing S.
Ascend 345 ft., to
49.16 N. or right rim of side canyon, brs. E. and W.
Ascend 43 ft. over S. slope, to
54.70 Spur, slopes W.
Descend 20 ft., over N. slope, to
60.21 SE. or left rim of Diamond Creek Canyon, brs. NE. and SW.
Descend 630 ft., over steep NW. slope, to
80.00 Set an iron post, 3 ft. long, 2 ins. in diam., over cross (x) marked on surface rock, and raise a mound of stone around post, for cor. of secs. 2, 3, 10 and 11, marked on brass cap,

T27N | R9 W
S 3 | S 2
S10 | S11
1920

from which,
A pine, 12 ins. in diam., brs. N. 89° E., 68 lks. dist., marked T27N R9W S2 BT.
A pine, 14 ins. in diam., brs. S. 43½° E., 165 lks. dist., marked T27N R9W S11 BT.
A pine, 12 ins. in diam., brs. N. 33½° W., 17 lks. dist., marked T27N R9W S3 BT.
No other trees available.
Land, mountainous.
Soil, rocky, 4th rate.
Timber, scattering pine and juniper.
Undergrowth, scattering prickly ash, sagebrush and cacti.
Poor grass.

---

N. 89° 50' E., on a random line, bet. secs. 2 and 11.
The beginning of the random line passes over cliffs, bearing NE. and SW. facing NW., and chaining is impracticable; therefore, triangulate from sec. cor. to top of cliffs, as described as follows, and as shown on the diagram hereon:
From cor. of secs. 2, 3, 10 and 11, indicated on diagram at "A," line in a flag ahead on random line at "B."
Vertical angle from "A" to "B" = + 29°.
From "B" measure a base S. 33° 20' W., 4.90 chs. along top of cliffs to point "C".



30 Part of Subdivision lines of T. 27 N., R.9 W.

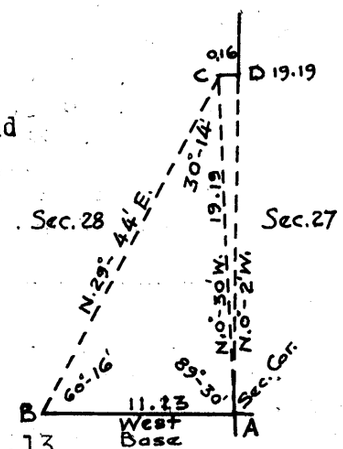
| Chains. | |
|---|---|
| | Bearing "A-C" = S.68°50' E. |
| | Included angles of triangle "A-B-C" are 21°20', 56°30' and 102° 10', the sum of which is 180°00'. |
| | Triangulated measurement on random line from "A" to "B," is obtained by $\frac{\text{sine } 102°10' \times \text{Base}}{\text{sine } 21°20'}$ or $\frac{.97754 \times 4.90}{.36379} = 13.17$ chs. |
| 13.17 | Triangulation point "B" at top of cliffs. |
| | Continue line and measurement by chaining. |
| 40.00 | Set temp. ¼ sec.cor. |
| 80.08 | Fall 42 lks.N. of the cor. of secs.1,2,11 and 12. |
| | Thence, |
| | N.89°52'W., on a true line, bet. secs.2 and 11. |
| | Over mountainous land, thru. dense timber and scattering undergrowth. |
| | Descend 52 ft., over SW.slope, to |
| 7.25 | Gulch, 20 lks.wide, course NW. |
| | Descend 45 ft., over NW.slope, to |
| 22.50 | Gulch, 10 lks.wide, course NW. |
| | Ascend 29 ft., over NE.slope. |
| 26.04 | Spur, slopes NW. |
| | Descend 32 ft., over W.slope. |
| 32.20 | Gulch, 10 lks.wide, course NW. |
| | Ascend 75 ft., over NE.slope. |
| 37.77 | Descend 30 ft., over NW.slope, to |
| 40.04 | Set an iron post, 3 ft.long, 1 in. in diam., 12 ins.in the ground to bed rock, and raise a mound of stone, around post, for ¼ sec.cor., marked on brass cap, ¼ S 2 / S 11 / 1920 |
| | from which, |
| | A pine, 6 ins. in diam., brs. N.46° W., 17 lks. dist., marked ¼ S 2 BT. |
| | A pine, 10 ins. in diam., brs.S.49°W.,37 lks. dist., marked ¼ S 11 BT. |
| | Ascend 18 ft., over NE.slope. |
| 42.69 | Descend 28 ft., over NW.slope. |
| 46.17 | Gulch, 10 lks.wide, course NW. |
| | Ascend 90 ft., over E.slope. |
| 52.70 | Ridge, brs.NE. and SW. |
| | Descend 10 ft., over NW.slope, to |
| 66.00 | East or left rim of Diamond Creek Canyon, brs.NE. and SW. |
| | Descend 28 ft., over steep NW.slope, to |
| 66.91 | Top of cliffs, bearing NE. and SW. facing NW. Thence by triangulated measurement hereinbefore described, descending 482 ft. to |
| 80.08 | The cor. of secs.2,3,10 and 11. |
| | Land, mountainous. |
| | Soil, very rocky, 4th rate. |
| | Timber, dense juniper and pine. |
| | Undergrowth, scattering scrub oak and prickly ash. |
| | No grass. |
| | --- |
| | N.0°17'E., on a random line, bet. secs,2 and 3. |
| 40.00 | Set tempoary ¼ sec.cor. |
| 79.74 | Fall 23 lks.E. of the cor. of secs. 2,3, 34 and 35, on the N. bdy. of the Tp., hereinbefore described. |
| | Thence, |
| | S.0°7'W., on a true line, bet. secs. 2 and 3. |
| | Over mountainous land, thru. dense timber and scattering undergrowth, along east or left wall of Diamond Creek |

| Chains. | |
|---|---|
| | Canyon, bearing E. and S. |
| | Ascend 52 ft., over NW. slope. |
| 1.14 | Point of spur, slopes W. |
| | Descend 238 ft., over S. slope. |
| 8.70 | Gulch, course W. into Diamond Creek. |
| | Ascend 180 ft., over NW. slope. |
| 23.30 | Descend 34 ft., along W. slope, to |
| 30.00 | Ascend 50 ft., over NW. slope, to |
| 39.74 | 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<br>S 3 \| S 2<br>1920 |
| | from which, |
| | A pine, 8 ins. in diam., brs. N. 25° E., 28 lks. dist. marked ¼ S 2 BT. |
| | A pine, 6 ins. in diam., brs. S. 15° W., 28 lks. dist., marked ¼ S 3 BT. |
| | Ascend 80 ft., over NW. slope. |
| 46.30 | Point of spur, slopes W. |
| | Descend 467 ft., over steep SW. slope, broken by cliffs. |
| 63.95 | Bottom of side canyon, 50 lks. wide, course W. to junction with bottom of Diamond Creek Canyon, about 20 chs. W. |
| | Ascend 215 ft., over steep broken NW. slope, to |
| 79.74 | The cor. of secs. 2,3,10 and 11. |
| | The cor. of secs. 2,3,10 and 11. |
| | Land, mountainous. |
| | Soil, rocky, 4th rate. |
| | Timber, dense juniper and piñon |
| | Undergrowth, scattering scrub oak and prickly ash. |
| | No grass. |
| | --- |
| | From cor. of secs. 3,4,33 and 34, on S. bdy. of the Tp., described in Book "F," |
| | N. 0° 2' W., bet. secs. 33 and 34. |
| | Over mountainous land, thru. dense timber and scattering undergrowth. |
| | Descend 27 ft., over W. and NW. slopes. |
| 17.10 | Ascend 55 ft., over SW. slope, to |
| 36.46 | Foot of cliffs, bearing E. and W. facing S. |
| | Ascend 50 ft., to |
| 38.30 | Top of cliffs, bearing E. and W., and S. edge of top of spur, sloping W. Thence across top of spur. |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., on surface rock, and raise a mound of stone around post, for ¼ sec. cor., marked on brass cap, |
| | ¼<br>S33 \| S34<br>1920 |
| | from which, |
| | A pine, 8 ins. in diam., brs. N. 62½° E., 61 lks. dist., marked ¼ S 34 BT. |
| | A pine, 10 ins. in diam., brs. N. 48½° W., 48 lks. dist., marked ¼ S 33 BT. |
| | Continue across top of spur, sloping W. |
| 41.90 | Leave top of spur. Descend 135 ft., over NW. slope, to |
| 59.50 | Gully, 12 lks. wide, course SW. |
| | Descend 10 ft., over SW. slope, to |
| 64.40 | Gully, 10 lks. wide, course SW. |
| | Ascend 35 ft., over SW. slope, to |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in diam., on surface rock, and raise a mound of stone around post, for cor. of secs. 27,28, 33 and 34, marked on brass cap, |
| | T27NR9W<br>S28 \| S27<br>S33 \| S34<br>1920 |

| Chains. | |
|---|---|
| | from which<br>A pine, 10 ins. in diam., brs. N.22° E.,146 lks.dist., marked T27N R9W S27 BT.<br>A pine, 8 ins. in diam.,brs.S.45¾°E., 253 lks.dist., marked T27N R9W S34 BT.<br>A pine,10 ins. in diam.,brs.S.57½°W., 68 lks.dist., marked T27N R9W S33 BT.<br>A pine,8 ins. in diam.,brs.N.71¾°W.,79 lks.dist., marked T27N R9W S28 BT. |
| | Land,mountainous.<br>Soil,rocky, 4th rate.<br>Timber, dense juniper and pine.<br>Undergrowth, scattering sagebrush,prickly ash,scrub oak, and cacti.<br>Poor grass. |
| | --- |
| | N.89°59'E., on a random line, bet. secs.27 and 34. |
| 40.00 | Set temporary ¼ sec.cor. |
| 80.30 | Fall 5 lks.N. of the cor.of secs. 26,27, 34 and 35. |
| | Thence,<br>N. 89°59'W., on a true line, bet. secs. 27 and 34.<br>Over mountainous land, thru. dense timber and scattering undergrowth.<br>Descend 138 ft., over W.slope,to |
| 10.50 | Gulch,10 lks.wide, course SW.<br>Descend 198 ft.,over SW. slope to bottom of ravine. |
| 20.09 | Top of cliff, 60 ft.high, brs.NW. and SE.,facing SW. |
| 25.50 | Bottom of ravine, course NW.<br>Ascend 30 ft.,over NE.slope. |
| 28.90 | Descend 46 ft., over NW.slope,to |
| 33.85 | Thence over S.slope, with slight change in elevation. |
| 40.15 | Set an iron post, 3 ft.long, 1 in. in diam., 15 ins.in the ground to bed rock, and raise a mound of stone around post, for ¼ sec.cor., marked on brass cap,<br>¼ S 27<br>S 34<br>1920<br>from which,<br>A pine, 8 ins. in diam.,brs.N.31¼°W.,74 lks. dist., marked ¼ S 27 BT.<br>A pine,12 ins.in diam.,brs.S.20¾°W.,129 lks. dist., marked ¼ S 34 BT. |
| | Continue along S.slope, with slight change in elevation. |
| 44.20 | Descend 80 ft.,over SW.slope,to |
| 64.10 | Gully, 10 lks.wide, course SW.<br>Ascend 10 ft.,over SW.slope,to |
| 68.95 | Gully, 50 lks.wide, course SW.<br>Ascend 26 ft., over SE.slope,to |
| 80.30 | The cor.of secs. 27,28, 33 and 34.<br>Land,mountainous.<br>Soil,rocky and gravelly, 4th rate.<br>Timber, dense juniper and pine.<br>Undergrowth, scattering sagebrush,scrub oak and prickly ash.<br>No grass. |
| | --- |
| | N.0°2'W., bet. secs.27 and 28. [illegible] secs.22 and 27. |
| 13.93<br>[illegible] | Over mountainous land,thru.scattering timber and undergrowth. The south end of this sec.line passes over SE. face of cliffs, rendering chaining impracticable; therefore, triangulate as described as follows,and as shown on the diagram hereon: |
| | From cor. of secs. 27,28, 33 and 34,<br>indicated on diagram at "A," |

Chains.

measure a Base, West, 11.13 chs. to point "B."
No point on sec. line being visible from both points "A" and "B", set flag "C" near top of cliffs, and bearing N.0°30'W. from "A" and N.29°44'E. from "B."
Vertical angle from "A" to "C" = + 11°.
Included angles of triangle "A-B-C" are 89°30', 60°16' and 30°14', the sum of which is 180°00'.
Triangulated measurement from "A" to "C" is obtained by




$$\frac{\text{sine } 60°16' \times \text{Base}}{\text{sine } 30°14'} \text{ or } \frac{.86834 \times 11.13}{.50352} = 19.19 \text{ chs.}$$

From point "C" chain measurement East, 16 lks. to point "D," on sec. line at

19.19 Top of cliffs, bearing N.15°E. and S.15°W. facing SE. 252 ft. above the cor. of secs. 27, 28, 33 and 34.

Thence,
N.0°2'W., on sec. line, continuing measurement by chaining.
Along bench on E. side of high, rocky hill, ascending slightly to

24.20 A point about 10 chs. E. from top of hill.
Continue along bench, bearing N. and S., descending gradually along edge of cliff, bearing N. and S.

40.00 On bench, near top of high rocky cliff, bearing N. and S. Set an iron post, 3 ft. long, 1 in. diam., over cross (+) marked on surface rock, and raise a mound of stone around post, for ¼ sec. cor., marked on brass cap,

¼
S28 | S27
1920

from which,
A sandstone boulder 10x6x5 ft. above ground; brs. S. 58½°W., 41 lks. dist., marked X S28 B0 on NE. face.

Continue along narrow bench.

41.20 Top of cliff, bearing W. and S. Leave bench, and descend over cliffs on broken N. slope.
Descend 453 ft., to

62.20 Bottom of canyon, 20 lks. wide, course NW., heads about 3 chs. SE.
Ascend 85 ft., over W. and SW. slopes.

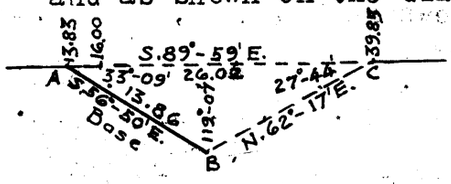
75.60 Spur, slopes W. from SE. and S.
Descend 45 ft. over NE. slope, to

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 10 ins. in the ground to bed rock, and raise a mound of stone around post, for cor. of secs. 21, 22, 27 and 28, marked on brass cap,

T27N | R9 W
S21 | S22
S28 | S27.
1920

from which,
A pine, 10 ins. in diam., brs. N.35°E., 54 lks. dist., marked T27N R9W S22 BT.
A pine, 8 ins. in diam., brs. S.36½°E., 107 lks. dist., marked T27N R9W S27 BT.
A pine, 12 ins. in diam., brs. S.38½°W., 162 lks. dist., marked T27N R9W S28 BT.
A juniper, 10 ins. in diam., brs. [illegible], 40 lks.

| Chains. | |
|---|---|
| | dist., marked T27N R9W S22 BT. |
| | A juniper, 10 ins. in diam., brs. N. 78½°W., 40 lks. dist., marked T27N R9W. S21 BT. |
| | Land, mountainous. |
| | Soil, rocky, 4th rate. |
| | Timber, scattering juniper and pine. |
| | Undergrowth, scattering sagebrush, scrub oak, prickly ash and cacti. |
| | Poor grass. |
| | --- |
| | S.89°59'E., on random line, bet. secs. 22 and 27. |
| 13.83 | Triangulation point. |
| 16.00 | Top of cliffs bearing NW. and SE., facing NE. Beyond this point, the random sec. line passes over the steep broken walls of a canyon, and chaining is impracticable; therefore, triangulate as described as follows, and as shown on the diagram hereon: |




From 13.83 ch. station indicated on diagram at "A," measure a Base S.56°50'E. 13.86 chs. to point "B." Set flag ahead on random line at point "C." Bearing from "B" to "C"=N. 62°17'E.

Included angles of triangle "A-B-C" are 33°09', 119°07' and 27°44', the sum of which is 180°00'.

Triangulated measurement on random line is obtained by

$$\frac{\text{sine } 119°07' \times \text{Base}}{\text{sine } 27°44'} \text{ or } \frac{.87363 \times 13.86}{.46536} = 26.02 \text{ chs.}$$

which added to 13.83 chs. gives 39.85 chs., S.89°59'E. from the cor. of secs. 21, 22, 27 and 28 for the position of point "C" on random line.

| | |
|---|---|
| 39.85 | Triangulation point at top of cliffs on East or right rim of canyon. |
| | Continue line and measurement by chaining. |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.00 | Fall 9 lks. N. of the cor. of secs. 22, 23, 26 and 27. |
| | Thence, mountainous land, thru. dense timber |
| | N.89°55'W., on a true line, bet. secs. 22 and 27. |
| | Over mountainous land, thru. dense timber and scattering undergrowth. |
| | Ascend 65 ft., over NE. slope. |
| 14.77 | Spur, slopes NW. |
| | Descend 110 ft., over SW. slope, to |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., on surface rock, and raise a mound of stone around post, for ¼ sec. cor., marked on brass cap, |

¼ S 22
S 27
1920

from which,

A pine, 12 ins. in diam., brs. S. 14½°E., 32 lks. dist., marked ¼ S 27 B T.

A pine, 10 ins. in diam., brs. N. 21½°W., 180 lks. dist., marked ¼ S 22 BT.

| | |
|---|---|
| 40.15 | Top of cliffs, bearing NW. and SE., facing SW., forming East or right rim of canyon. Thence by triangulated measurement of 26.02 chs. across canyon, as hereinbefore described. |
| | Descend about 250 ft., over cliffs, to |
| 50.00 | (Approximate) Bottom of canyon, course NW. |
| | Ascend about 250 ft., over cliffs, to |

Chains.

64.00 Top of cliffs, bearing NW. and SE. facing NE., and forming west or left rim of canyon.
Leave canyon, and ascend 20 ft., over NE. slope to top of spur.

66.17 Triangulation point.
Continue line and measurement by chaining.

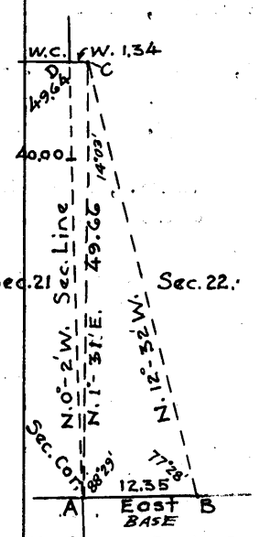
67.65 Spur, slopes NW.
Descend 110 ft., over W. slope.

73.09 Gulch, course NW.
Ascend 123 ft., over NE. slope, to

80.00 The cor. of secs. 21, 22, 27 and 28.
Land, mountainous.
Soil, rocky, 4th rate.
Timber, dense juniper and pine.
Undergrowth, scattering prickly ash, sagebrush, scrub oak, and cacti.
Poor grass.

---

N. 0°2' W., bet. secs, 21 and 22.
Over mountainous land, thru. scattering timber and undergrowth.
The south half of this section line passes over cliffs, facing NE. on W. side of a gulch, course N. into bottom of a canyon, course NW.
Chaining being impracticable, triangulate as described as follows, and as shown on the diagram hereon:




From cor. of secs. 21, 22, 27 and 28, indicated on diagram at "A," measure a Base, East, 12.35 chs. to point "B."
No point ahead on sec. Line, which is accessible, is visible from both points "A," and "B;" therefore, set a flag beyond the canyon at point "C," which brs. N. 1°31' E. from "A" and N. 12°32' W. from "B."
Included angles of triangle "A-B-C" are 88°29', 77°28' and 14°03', the sum of which is 180°00'.

Triangulated measurement from "A" to "C" is obtained by $\frac{\text{sine } 77°28' \times \text{Base}}{\text{sine } 14°03'}$ or $\frac{.97617 \times 12.35}{.24277} = 49.66$ chs.

35.00 (Approximate) Bottom of canyon, course NW. about 600 ft. below cor. of secs. 21, 22, 27 and 28. Ascend about 300 ft., over steep broken SW. slope to rim of canyon.

40.00 True point for $\frac{1}{4}$ sec. cor. falls on face of cliffs, and is inaccessible.
From triangulation point "C," chain measurement W. 1.34 chs. to point "D," on sec. line at

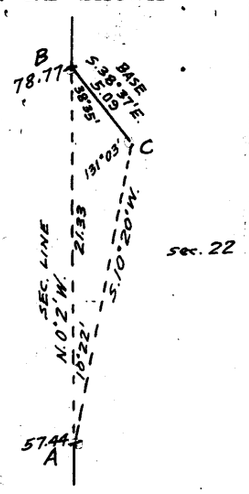
49.64 Top of cliffs, bearing N. and SE. facing W., and SW., forming NE. or right rim of canyon. This being the nearest accessible point to the point for $\frac{1}{4}$ sec. cor., establish witness cor. here as follows:
Set an iron post, 3 ft. long, 1 in. in diam., over cross (X) marked on surface rock, and raise a mound of stone around post, for witness cor. to $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$
S21 | S22
W C
1920

Chains.

Thence,
N.0°2'W., on sec.line, continuing measurement by chaining along W.slope, near top of cliffs, bearing N. and S. at about 50 lks.W. of line.
Ascend 20 ft.,to

57.44 Top of cliffs, bearing S. and N.10° E.facing W. Beyond this point the sec.line passes over the precipitous face of these cliffs and chaining is impracticable; therefore, triangulate as described as follows, and as shown on the diagram hereon:




From 57.44 ch.station on sec.line indicated on diagram at "A,"line in a flag "B," N.0°2'W., at point where top of same cliffs recrosses the sec.line.
From point "B," measure a Base,S.38° 37'E.,5.09 chs.to point "C."
Bearing of "C-A"= S.10°20'W.
Included angles of triangle "A-B-C" are 10°22', 38°35' and 131°03', the sum of which is 180°00'.
Triangulated measurement of "A-B" is obtained by

$$\frac{\text{sine } 131°03' \times \text{Base}}{\text{sine } 10°22'} \text{ or } \frac{.75414 \times 5.09}{.17995} = 21.33 \text{ chs.},$$

which added to 57.44 chs. gives 78.77 chs.N.0°2'W. from the cor. of secs. 21,22,27 and 28, for the position of point "B."

78.77 Triangulation point at top of cliffs, bearing NW. and SE. facing W., and top of spur, sloping NW.
Continue line and measurement by chaining.
Descend slightly over NE. slope,to

80.00 Set an irnn post 3 ft.long, 2 ins. in diam.,10 ins.in the ground to bed rock, deposit a stone marked with a cross (x) at base of post, and raise a mound of stone around post for cor.of secs.15,16, 21 and 22, marked on brass cap,

T27N | R9 W
S16 | S15
S21 | S22
1920

from which,
A sandstone ledge 4x6x4 ft. high,brs.S.12°E.,10 lks.dist., marked X S 22 B0.
A sandstone ledge, 6x4x4 ft.high,brs.S.20½°W.,8 lks.dist., marked X S 21 B0.
A sandstone ledge, 5x5x4 ft.high,brs.N.83°W.,11 lks.dist., marked X S 16 B0.
This cor. is at top of cliffs, bearing NW. and SE.facing NE.
Land,mountainous.
Soil, rocky, 4th rate.
Timber, scattering juniper and pine.
Undergrowth, scattering scrub oak and prickly ash.
No grass.

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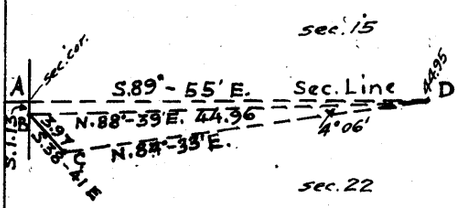
S. 89° 55'E.on a random line, bet. secs.15 and 22.
The west half of this sec.line passes over precipitous cliffs on the SW. wall of a canyon, course NW. and chaining is impracticable; therefore, triangulate as described as follows, and as shown on diagram hereon:

Chains.




From cor. of secs. 15,16,21 and 22, indicated on diagram at "A," line in a flag "D," S.89°55'E.

To secure a Base for the triangulation, measure South 1.13 chs. from "A," to point "B," thence measure a Base, S.38° 41'E., 3.97 chs. to point "C."

Bearing "B-D" = N.88°39'E.
Bearing "C-D" = N.84°33'E.
Included angles of triangle "B-C-D" are 49°58', 125°56' and 4°06', the sum of which is 180°00'.
Triangulated measurement from "B" to "D" is obtained by

$$\frac{\text{sine } 125° 56' \times \text{Base}}{\text{sine } 4°06'} \quad \text{or} \quad \frac{.80970 \times 3.97}{.07150} = 44.96 \text{ chs.}$$

Therefore by solution of the triangle "A-B-D" the position of point "D" on random sec. line is determined to be at 44.95 chs. S.89°55'E. from sec. cor.
From point "D" chain measurement, N.89°55'W., 4.95 chs. to
40.00 Set temp. ¼ sec. cor.
Thence,
S.89°55'E., continuing measurement from sec. cor.
80.30 Intersect the cor. of secs. 14, 15, 22 and 23.
Thence,
N.89°55'W., on a true line, bet. secs. 15 and 22.
Over mountainous land, thru. very scattering timber and undergrowth, along N. or right wall of canyon, course W.
Descend 20 ft., over SW. slope, to
1.70 Gulch, course S.
Ascend 127 ft., over SE. slope.
6.80 Descend 326 ft., over SW. slope, to
32.55 Gulch, 10 lks. wide, course SW. 5 chs. to junction of bottoms of two canyons, one from E. and the other from SE.
Ascend 60 ft., over SE. slope to ¼ sec. cor.
35.34 Triangulation point. Continue chaining.
40.15 Set an iron post, 3 ft. long, 1 in. in diam., over cross (x) marked on surface rock, and raise a mound of stone around post, for ¼ sec. cor., marked on brass cap,

¼ S 15
S 22
1920

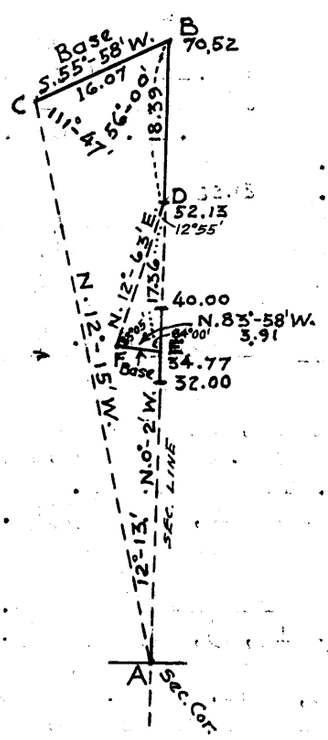
Continue measurement by chaining.
Descend 80 ft., over SW. slope.
44.00 Bottom of canyon, 20 lks. wide, course NW.
Ascend about 600 ft., over E. and NE. slopes on SW. or left wall of canyon, broken by cliffs.
Discontinue chaining. Measurement to sec. cor. by triangulation, hereinbefore described.
80.30 The cor. of secs. 15, 16, 21 and 22, at top of cliffs, and SW. rim of canyon.
Land, mountainous.
Soil, rocky, 4th rate.
Timber, very scattering juniper and pine.
Undergrowth, scattering prickly ash and sagebrush.
No grass.

---

N.0°2'W., bet. secs. 15 and 16.
Over mountainous land, thru. scattering undergrowth and very scattering timber. This sec. line crosses a side

Chains.

canyon, course W. from SE., the walls of which are broken by cliffs, which render chaining impracticable; therefore triangulate as described as follows, and as shown on the diagram hereon;




From cor. of secs. 15,16,21 and 22, indicated on diagram at "A" line in a flag "B," N.0°2'W. on sec.line at top of spur, sloping SW.
From "B" measure a Base S.55°58' W., 16.07 chs. along top of spur to point "C."
Bearing "A-C" = N.12°15'W.
Vertical angle "A" to "B" = -8°.
Included angles of triangle "A-B-C" are 12°13', 56°00' and 111°47', the sum of which is 180°00'.
Triangulated measurement of "A-B" is obtained by

$$\frac{\text{sine } 111°47' \times \text{Base}}{\text{sine } 12°13'} \text{ or } \frac{.92859 \times 16.07}{.21161} = 70.52 \text{ chs.}$$

From point "B" chain measurement on sec.line, S.0°2'E. 18.39 chs. to top of cliffs at point "D," 52.13 chs. N.0°2'W. from sec.cor.
From point "D" line in a flag "E" S.0°2'E. on sec.line in bottom of canyon.
From "E," measure a Base N.83°58'W., 3.91 chs. along bottom of canyon to point "F."
Bearing "F-D" = N.12° 63'E.
Vertical angle "E" to "D" = + 38°.
Included angles of triangle "D-E-F" are 12°55', 84°00' and 83°05', the sum of which is 180°00'.
Triangulated measurement of "D-E" is obtained by

$$\frac{\text{sine } 83°05' \times \text{Base}}{\text{sine } 12°55'} \text{ or } \frac{.99272 \times 3.91}{.22353} = 17.36 \text{ chs.,}$$

which, subtracted from 52.13 chs. gives 34.77 chs. N. 0°2'W. from sec.cor. for the position of triangulation point "E" on sec.line.
From triangulation point "E," chain measurement on sec. line, S.0°2'E., 2.77 chs. to

32.00 Foot of cliffs, bearing NW. and SE., facing NE., about 1650 ft. below the cor. of secs. 15,16,21 and 22.
Thence,
N.0°2'W., continuing measurement by chaining.
Descend 25 ft., over NE. slope.

34.77 Bottom of canyon, course W. from SE.
Ascend 150 ft., over SW. slope, to

39.50 Gulch, course SW.
Ascend 25 ft., over S. slope, to

40.00 Set an iron post, 3 ft. long, 1 in. in diam., over cross (x) marked on surface rock, and raise a mound of stone around post, for ¼ sec.cor., marked on brass cap,

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

1920

from which,

E face of cliff, brs. S.56°00'W., 1.53 chs. dist. marked X S16 BC.

Discontinue chaining.

Chains.

Ascend 720 ft. over S.face of cliffs, triangulating measurement to

52.13 Triangulation point at top of cliffs, bearing NE. and W. facing SE. and S.

Continue line and measurement by chaining.

Ascend 127 ft., over S.slope.

70.52 Spur,slopes SW. from E.

Descend 34 ft.,over N.slope, to

75.49 SE.rim of Diamond Creek Canyon, brs. E. and SW.

Descend 175 ft., over N.slope,to

80.00 About 75 lks.S.of top of cliffs, bearing E. and W.,facing N. Set an iron post, 3 ft.long, 2 ins. in diam.,over cross (x) marked on surface rock, and raise a mound of stone around post for cor.of secs. 9,10,15 and 16, marked on brass cap,

T27N | R9 W
S 9 | S10
S16 | S15
1920

Land,mountainous.
Soil,rocky, 4th rate.
Timber, very scattering juniper and pine.
Undergrowth, scattering prickly ash, sagebrush and cacti.
No grass.

---

S.89°55'E.,on a random line, bet. secs.10 and 15.

40.00 Set temp.¼ sec.cor.

80.20 Fall 28 lks.S.of the cor.of secs. 10,11,14 and 15.

Thence,
S.89°53' W., on a true line, bet. secs.10 and 15.
Over mountainous land, thru.scattering timber and dense undergrowth.
Descend 160 ft., over NW.slope.

20.88 Ascend 231 ft.,over NE.slope.

33.03 Point of spur, slopes NW. Leave timber.

Descend 134 ft.,over NW.slope,to

40.10 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 ¼ sec.cor., marked on brass cap,

¼ S 10
S 15
1920

Thence along N.slope on S.wall of side canyon,course W. into Diamond Creek Canyon.
Descend 136 ft., to

80.20 The cor. of secs.9,10,15 and 16.

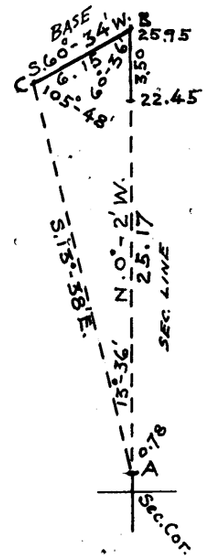
Land,mountainous.
Soil, rocky, 4th rate.
Timber, scattering juniper and pine in E. 33 chs.None elsewhere.
Undergrowth, dense sagebrush and scattering prickly ash and cacti.
No grass.

---

N.0°2'W., bet. secs.9 and 10.
Over mountainous land, thru.scattering undergrowth.
Descending over south or left wall of a side canyon,course W.,merging at this point into the SE. or left wall of Diamond Creek Canyon.

Chains.

0.78 Top of cliffs, bears E. and W. facing N. Precipitous descent beyond this point renders chaining impracticable; therefore, triangulate as described as follows, and as shown on the diagram hereon:




From 0.78 ch. station indicated on diagram at "A," line in a flag "B" N.0°2'W., on sec.line beyond the bottom of side canyon.

From point "B" measure a Base S. 60°34'W., 6.15 chs. to point "C."

Vertical angle "B" to "A" = + 27°.

Bearing of "C-A" = S.13°38'E.

Included angles of triangle "A-B-C" are 13°36', 60°36' and 105°48' the sum of which is 180°00'.

Triangulated measurement of "A-B" is obtained by

$$\frac{\text{sine } 105°48' \times \text{Base}}{\text{sine } 13°36'} \text{ or } \frac{.96222 \times 6.15}{.23514}$$

= 25.17 chs., which added to 0.78 chs. gives 25.95 chs. N.0° 2'W., from sec.cor. for the position of triangulation point "B."

Thence chain measurement S.0°2'E., 3.50 chs. to

22.45 Center of bottom of side canyon, 150 lks.wide, course SW. from E. about 860 ft.below sec.cor., joins bottom of Diamond Creek Canyon at about 12 chs. SW.

Thence,

N.0°2'W., continuing measurement by chaining.

Ascend 14 ft.,over SW.slope,to

25.95 Triangulation point. Continue chaining.

Descend 23 ft.,over NW.slope.

29.93 Center of bottom of Diamond Creek Canyon,100 lks.wide, course SW.

Ascend 45 ft., over.SE.slope.

35.00 Descend. 20 ft.over NE.slope.

36.70 Center of bottom of Diamond Creek Canyon, 100 lks.wide, course SE.

Ascend 25 ft.,over W. slope,to

40.00 Set an iron post 3 ft.long, 1 in. in diam.,26 ins.in the ground, for ¼ sec.cor., marked on brass cap,

$$\frac{\frac{1}{4}}{S\ 9 \mid S\ 10}$$
$$1920$$

from which,

A triangular shaped limestone rock 12x12x8 ft. high,brs.N.71½°E., 61 lks.dist.,marked X BO S10.

A limestone rock,10x7x6 ft.high,brs.S.4½°W., 102 lks.dist., marked X BO S 9.

About 2 chs. N. of this ¼ sec.cor., the bottom of Diamond Creek,crosses the line, course SW., and the line then passes over precipitous cliffs on the NW.,or right wall of canyon, bearing NE. and SW.

Survey of the N.½ of the sec.line bet. secs.9 and 10,and of the line bet. secs. 3 and 10, and bet. secs. 3 and 4 is impracticable, owing to the extremely mountainous character of the surface, therefore, abandon the survey of this range of sections at the above described ¼ sec.cor.

Land, mountainous.

Soil, rocky 4th rate.

Timber, none.

Undergrowth, scattering sagebrush and cacti.

No grass.

Chains.

From cor. of secs. 4,5,32 and 33, on the S. bdy. of the Tp., described in Book "F,"
N.0°3'W., bet. secs.32 and 33.
Over mountainous land, thru. dense timber and undergrowth.
Ascend 134 ft., over S. slope,
8.65 Ridge, brs. E. and W.
Descend 165 ft., over N. slope, to
20.15 Gulch, 10 lks. wide, course NW.
Descend 40 ft., over W. slope, to
28.90 Gulch, 75 lks. wide, course SW.
Ascend 245 ft. to ¼ sec. cor., over steep S. slope, broken by cliffs and slide rock.
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap,

¼
S32 | S33
1920

from which,
A pine, 8 ins. in diam., brs. S. 45° E., 87 lks. dist., marked ¼ S 33 BT.
A pine, 6 ins. in diam., brs. N. 48° W., 54 lks. dist., marked ¼ S 32 BT.
Ascend 180 ft., over S. and SE. slopes, to
58.10 Ridge, brs. N. and SW. Thence along top of same, ascending slightly to
67.42 Leave top of ridge, brs. NW. and S.
Descend 40 ft., over NE. slope, to
72.38 Foot of descent, brs. NW. and SE. Thence over nearly level surface of bench. Leave timber and undergrowth.
76.68 Trail to Diamond Creek, brs. NW. and SE.
80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 28, 29, 32 and 33, marked on brass cap,

T27N | R9W
S29 | S28
S32 | S33
1920

from which,
A pine, 10 ins. in diam., brs. N. 80½° E., 429 lks. dist., marked T27N R9W S28 BT.
A pine, 10 ins. in diam., brs. S. 78° E., 467 lks. dist., marked T27N R9W S33 BT.
A pine, 10 ins. in diam., brs. S. 29° W., 578 lks. dist., marked T27N R9W S32 BT.
A pine, 10 ins. in diam., brs. N. 1½° W., 509 lks. dist., marked T27N R9W S29 BT.
Land, S.72 chs. mountainous, N.8 chs., nearly level.
Soil, rocky and gravelly, 4th rate.
Timber, dense juniper and pine in S.72 chs.
Undergrowth, dense prickly ash and scrub oak in S.72 chs.
No timber or undergrowth in N.8 chs.
No grass.

---

N.89°59'E., on a random line bet. secs.28 and 33.
40.00 Set temp. ¼ sec. cor.
79.98 Fall 16 lks. N. of the cor. of secs. 27, 28, 33 and 34.
Thence
N.89°54'W., on a true line, bet. secs.28 and 33.
Over mountainous land, thru. dense timber and scattering undergrowth.
Ascend 151 ft. over steep SE. slope, broken by cliffs.
11.20 Rocky spur, slopes S.
Descend 220 ft., over W. and SW. slope, to

| Chains. | |
|---|---|
| 38.09 | E. rim of canyon, brs.N.and S. |
| | Descend 55 ft.over W.slope,to |
| 39.99 | 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 S 28 / S 33 / 1920 |
| | from which, |
| | A pine, 6 ins. in diam., brs.N.32° E., 34 lks. dist., marked ¼ S 28 BT. |
| | A pine, 6 ins. in diam., brs.S.77½°E.,46 lks. dist., marked ¼ S 33 BT. |
| | Descend 67 ft.,over W. slope. |
| 42.10 | Bottom of canyon, 20 lks.wide,course NW., heads about 15 chs. SE. |
| | Ascend 273 ft.,over E.slope,to |
| 65.00 | West rim of canyon,brs.N.&S. Leave canyon. |
| | Ascend 34 ft.,over E.slope,to |
| 70.00 | Thence over nearly level bench. |
| 75.00 | Leave timber and undergrowth. |
| 79.98 | The cor.of secs.28,29, 32 and 33. |
| | Land,E. 70 chs. mountainous; W. 10 chs. nearly level. |
| | Soil, very rocky, 4th rate. |
| | Timber, dense juniper and pine in E. 75 chs. |
| | Undergrowth, scattering scrub oak and prickly ash in E. 75 chs. |
| | No timber or undergrowth in W. 5 chs. |
| | No grass. |
| | --- |
| | N.0°3'W., bet. secs. 28 and 29. |
| | Over nearly level land on bench, devoid of timber and undergrowth. |
| 5.00 | Enter dense timber, and scattering undergrowth. |
| 17.40 | West rim of canyon, brs. NW. and SE. Leave nearly level bench and enter mountainous land on W. wall of canyon. |
| | Descend 335 ft.,over steep NE. slope,to |
| 28.85 | Gulch,10 lks.wide, course E. near head. |
| | Ascend 95 ft. over SE. slope,to |
| 40.00 | Point of spur,slopes E. from rim of canyon. |
| | 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 S29 \| S28 / 1920 |
| | from which, |
| | A pine,8 ins. in diam., brs.S.14°E.,126 lks. dist., marked ¼ S 28 BT. |
| | A pine, 8 ins.in diam.,brs.S.18°W.,35 lks. dist., marked ¼ S 29 BT. |
| | Continue over rough broken W. wall of canyon. |
| | Leave dense, and enter scattering timber. |
| | Descend 344 ft.,over NE. slope. |
| 58.60 | Gulch,20 lks.wide, course NE. |
| | Ascend 88 ft.,over SE.slope. |
| 64.50 | Spur, slopes NE. |
| | Descend 142 ft. over N.slope. |
| 70.50 | Gulch,10 lks.wide, course NE. |
| | Ascend 20 ft.,over SE.slope. |

Part of Subdivision lines of T. 27 N., R. 9 W.

| Chains. | |
|---|---|
| 72.46 | Descend 40 ft., over NE. slope. |
| 77.00 | Gulch, 10 lks. wide, course NE. |
| | Ascend 10 ft., over SE. slope, to |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 20, 21, 28 and 29, marked on brass cap, |
| | T27N \| R9W<br>S20 \| S21<br>S29 \| S28<br>1920 |
| | from which, |
| | A juniper, 10 ins. in diam., brs. N. 21° E., 116 lks. dist., marked T27N R9W S21 BT. |
| | A juniper, 8 ins. in diam., brs. S. 87° E., 75 lks. dist., marked T27N R9W S28 BT. |
| | and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. |
| | Land, S. 10 chs. nearly level, remainder, mountainous. |
| | Soil, very rocky, 4th rate. |
| | Timber, juniper and pine, scattering in N. ½; dense in S. ½, except the S. 5 chs., where there is no timber. |
| | Undergrowth, scattering prickly ash and scrub oak in N. 75 chs.; none in S. 5 chs. |
| | No grass. |
| | --- |
| | S. 89° 54' E., on a random line, bet. secs. 21 and 28. |
| 40.00 | Set temp. ¼ sec. cor. |
| 80.12 | Fall 35 lks. S. of the cor. of secs. 21, 22, 27 and 28. |
| | Thence, |
| | S. 89° 51' W., on a true line, bet. secs. 21 and 28. |
| | Over mountainous land, thru. scattering timber and undergrowth. Asc. 111 ft., over NE. slope. |
| 14.40 | Ridge, brs. NW. and SE. Desc. 130 ft., over W. slope, to |
| 28.11 | North or right rim of canyon, brs. NE. and SE. |
| | Descend 203 ft., over SW. slope, to |
| 32.00 | Gulch, 20 lks. wide, course S. 60° W. Asc. 165 ft. over SE. slope. |
| 36.92 | Descend 51 ft., over SW. slope, to |
| 40.06 | 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 S 21<br>S 28<br>1920 |
| | from which, |
| | A pine, 6 ins. in diam., brs. N. 11½° E., 84 lks. dist., marked ¼ S 21 BT. |
| | A pine, 10 ins. in diam., brs. S. 58° E., 36 lks. dist., marked ¼ S 28 BT. |
| | Descend 50 ft. |
| 46.10 | Gulch, 20 lks. wide, course SW. from N. |
| | Ascend 104 ft., over SE. slope. |
| 65.85 | Point of spur, slopes SW. Desc. 235 ft. over W. slope. |
| 78.60 | Bottom of canyon, 20 lks. wide, course NW. |
| | Ascend 10 ft., over NE. slope, to |
| 80.12 | The cor. of secs. 20, 21, 28 and 29. |
| | Land, mountainous. |
| | Soil, very rocky, 4th rate. |
| | Timber, scattering juniper and pine. |
| | Undergrowth, scattering prickly ash and scrub oak. No grass. |
| | --- |
| | N. 0° 3' W., bet. secs. 20 and 21. |
| | Over mountainous land, thru. scattering timber and undergrowth, along W. or left wall of canyon. |
| | Descend 12 ft. over NE. slope. |
| 1.90 | Bottom of canyon, 20 lks. wide, course NW., thence over E. or right wall of canyon. Asc. 25 ft. over SW. slope. |
| 3.80 | Descend 73 ft., over NW. slope. |
| 6.20 | Bottom of same canyon in bend from SW. to NW., joined at this point by gulch, from E. Asc. 132 ft. over SW. slope. |

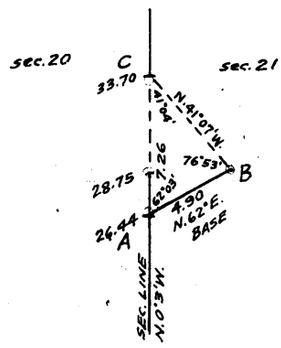
Chains.

15.30 Point of spur, slopes W.
Descend 136 ft. over NW. slope.

20.36 Rocky gulch, 20 lks. wide, course SW. Asc. 124 ft. over SW. slope.

26.44 Triangulation point at point of spur, slopes W. from NE.
Descend 130 ft. over NW. slope.

28.75 Gulch, 20 lks. wide, course W.
Ascend 250 ft., over steep broken S. slope.
Measurement by chaining is impracticable; triangulate therefore, as described as follows, and as shown on the diagram hereon:
From 26.44 ch. station on sec. line indicated on diagram at "A," measure a Base N. 62°00' E., 4.90 chs. to point "B."
Set flag ahead on sec. line at point "C."
Vertical angle "A" to "C" = + 14°.
Bearing "B-C" = N. 41°07' W.
Included angles of triangle "A-B-C" are 62°03', 76°53' and 41°04', the sum of which is 180°00'.




Triangulated measurement of "A-C" is obtained by

$$\frac{\text{sine } 76°53' \times \text{Base}}{\text{sine } 41°04'} \text{ or } \frac{.97391 \times 4.90}{.65694} = 7.26 \text{ chs.,}$$

which added to 26.44 chs, gives 33.70 chs. N. 0°3' W. from the cor. of secs. 20, 21, 28 and 29, for the position of the triangulation point.

33.70 Triangulation point at rim of canyon, bearing NW. and SE.
Leave canyon.
Continue line and measurement by chaining.
Ascend 36 ft., over SW. slope.

38.16 Point of spur, slopes SW.
Descend 32 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, deposit stone, marked with a cross (x) at base of post, and raise a mound of stone around post, for ¼ sec. cor., marked on brass cap,

$$S20 \,\big|\, \tfrac{1}{4} \,\big|\, S21$$

1920

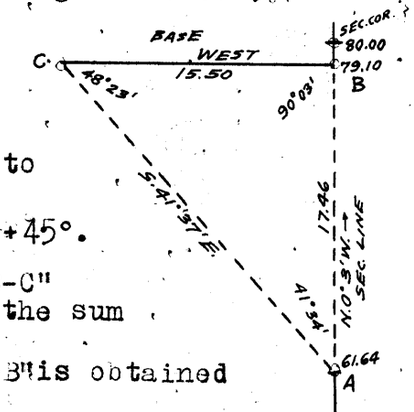
Descend 20 ft., over NW. slope.

46.30 Head of gulch, 20 lks. wide, course SW. Asc. 65 ft. over SW. slope.

52.00 Spur, slopes W. Desc. 71 ft. over N. slope.

56.65 Gulch, 10 lks. wide, course NW. Asc. 35 ft., over W. slope, to

61.64 Top of cliffs, bearing NE. and SW. facing NW., and rim of canyon.
Descend 1152 ft. over face of cliffs to bottom of canyon.
Chaining being impracticable, triangulate as described as follows, and as shown on the diagram hereon:
Set flag at 61.64 ch. station on sec. line, indicated on diagram at "A."
From point ahead on sec. line in bottom of canyon at "B," measure a base W. 15.50 chs. to "C."
Vertical angle from "B" to "A" = + 45°.
Bearing of "C-A" = S. 41°37' E.
Included angles of triangle "A-B-C" are 41°34', 90°03' and 48°23', the sum of which is 180°00'.




Triangulated measurement of "A-B" is obtained by

$$\frac{\text{sine } 48°23' \times \text{Base}}{\text{sine } 41°34'} \text{ or } \frac{.74760 \times 15.50}{.66349} = 17.46 \text{ chs.,}$$

which added to 61.64 chs. gives 79.10 chs. N. 0°3' W.

Chains.

from cor. of secs. 20, 21, 28 and 29 for the position of the triangulation point "B."

79.10 Bottom of canyon, 150 lks. wide, course W.
Continue line and measurement by chaining.
Across bottom of canyon.

80.00 Near foot of cliffs at N. edge of bottom of canyon, bearing E. and W.
Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 16, 17, 20 and 21, marked on brass cap,

T27N, R9W

| S17 | S16 |
|---|---|
| S20 | S21 |

1920

from which,
A limestone boulder, 6x6x5 ft. above ground, brs. N. 76° E., 17 lks. dist., marked X BO S16 on SW. face.
A limestone boulder 4x4x4 ft. above ground, brs. S. 78° E., 22 lks. dist., marked X BO S 21 on NW. face.
A limestone boulder 6x5x2 ft. above ground, brs. S. 36° W., 22 lks. dist., marked X BO S20 on NE. face.
A limestone boulder, 5x5x2 ft. above ground, brs. N. 17° W., 23 lks. dist., marked XBO S17 on SE. face.
Land mountainous.
Soil, very rocky, 4th rate.
Timber, scattering juniper and pine.
Undergrowth, scattering prickly ash and scrub oak.
No grass.

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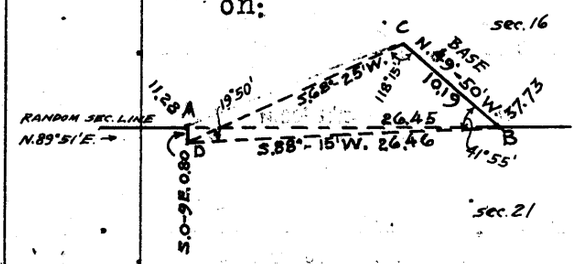
N. 89° 51' E., on random line, bet. secs. 16 and 21.

11.28 Foot of cliffs. Beyond this point, the random sec. line passes over precipitous SW. face of cliffs, and chaining is impracticable; therefore, triangulate as described as follows, and as shown on the diagram hereon:




From 11.28 ch. station on random sec. line indicated on diagram at "A," line in a flag "B" at top of cliffs, and bearing N. 89° 51' E. from "A."
Vertical angle "A" to "B" = + 22½°.
From "B" measure a Base N. 49° 50' W., 10.19 chs. to "C".
Point "A" is invisible from "C"; therefore, from point "A" measure S. 0° 9' E., 80 lks. to point "D," which is visible from both ends of Base "B-C."
Bearing "B-D" = S. 88° 15' W. Bearing "C-D" = S. 68° 25' W.
Included angles of triangle "B-C-D" are 41° 55', 118° 15' and 19° 50', the sum of which is 180° 00'.
Triangulated measurement of "B-D" is obtained by

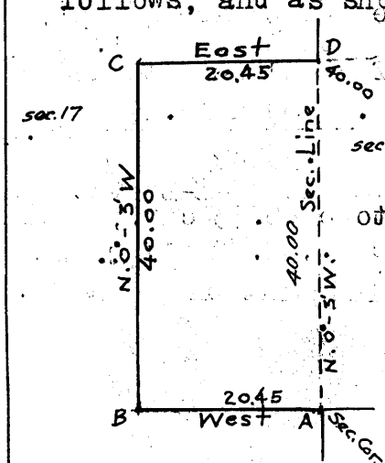
$$\frac{\text{sine } 118°15' \times \text{Base}}{\text{sine } 19°50'} \text{ or } \frac{.88089 \times 10.19}{.33929} = 26.46 \text{ chs.}$$

Then by solution of the triangle "A-B-D" the measurement of "A-B" is determined to be 26.45 chs., which added 11.28 chs. gives 37.73 chs., N. 89° 51' E. from sec. cor. for the position of triangulation point "B."

| Chains. | |
|---|---|
| 37.73 | Triangulation point. |
| | Continue line and measurement by chaining. |
| 40.00 | Set temporary ¼ sec.cor. |
| 80.36 | Fall 30 lks.N. of the cor. of secs. 15,16,21 and 22. |
| | Thence, |
| | N.89°56'W., on true line, bet. secs. 16 and 21. |
| | Over mountainous land, thru. scattering timber and undergrowth. |
| | Ascend 33 ft.,over NE.slope. |
| 1.52 | Point of spur, sloping NW. and NE. or right rim of canyon, bearing NW. and SE. |
| | Descend 488 ft.over steep broken SW. slope. |
| 18.60 | Gulch, 10 lks. wide, course SW. |
| | Ascend 153 ft.over SE.slope, to |
| 30.63 | N.or right rim of canyon, brs.NE. and SW. Thence along S. slope near same canyon rim, with slight in elevation. |
| 40.18 | Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground to bed rock, and raise a mound of stone around post, for ¼ sec.cor., marked on brass cap, |
| | ¼ S 16 / S 21 |
| | from which 1920 |
| | A sandstone boulder 4x3x3 ft. above ground, brs.S. 25°E,37lks.dist., marked X BO S21 on NW.face. |
| | A sandstone boulder 2x2x1 ft. above ground,brs.N. 44°W.,27 lks.dist.,marked XBO S16 on SE.face. |
| | Continue along S. slope, with slight change in elevation. |
| 41.87 | N.or right rim of canyon, brs.NW. and SE. |
| | Descend 47 ft.,over SW.slope,to |
| 42.63 | Top of cliffs, bearing NW. and SE. facing SW. Thence by triangulated measurement of 26.45 chs. |
| | Descend 723 ft.,over precipitous SW.slope,to |
| 69.08 | Triangulation point at foot of cliffs, bearing NW. and SE. Bottom of canyon, course W.,brs.S.80°lks.dist. |
| | Continue line and measurement by chaining. |
| | Descend 54 ft.,over steep S.slope,to |
| 77.75 | N.edge of bottom of canyon, brs.SE. and W. Thence along N.edge of bottom of canyon, descending slightly to |
| 80.36 | The cor.of secs. 16,17, 20 and 21. |
| | Land, mountainous. |
| | Soil, very rocky, 4th rate. |
| | Timber, scattering juniper and pine. |
| | Undergrowth, scattering prickly ash and scrub oak. |
| | No grass. |

---

N.0°3'W., bet. secs. 16 and 17.
Over mountainous land, thru. scattering undergrowth.
It is impracticable to chain measurement on the S.½ of this sec.line, owing to almost perpendicular cliffs about 1000 ft.high, and attempts to readh a point on the line for triangulation prove unsuccessful; therefore, obtain the measurement,and avoid the cliffs by a traverse around them thru. sec.17, 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," West, 20.45 chs. descending along N.edge of bottom of canyon course W. to offset point "B."

Thence,
N.0°3'W.,40.00 chs.on offset line, thru.sec.17,parallel to true position of sec.line. Along E.wall of side canyon, course NW.into Diamond Creek Canyon.

Chains.

Ascend 30 ft. over SW. slope for 1.33 chs., then descend 120 ft. over W. slope for 21.20 chs., thence descend 180 ft. over NW. slope to offset point "C," in bottom of Diamond Creek Canyon 250 lks. wide. course SW. Thence,

East, 20.45 chs., ascending 220 ft. over NW. slope on SE. or left wall of Diamond Creek Canyon, to offset point "D," on sec. line, 40.00 chs. N. 0°3' W. from cor. of secs. 16, 17, 20 and 21, or at point for ¼ sec. cor.

The approximate positions of the topographical features on the sec. line are as follows:

10.00 Top of cliffs, bearing E. and W. facing S., and forming N. or right rim of canyon. Ascend to

15.00 Spur, slopes W.

Descend to

30.00 Top of cliffs, bearing NE. and SW. facing NW. and forming SE. or left rim of Diamond Creek Canyon.

Descend over almost perpendicular cliffs to

40.00 Foot of cliffs bearing NE. and SW.

Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap,

S17 | ¼ | S16

1920

from which,

A limestone boulder 4x6x5 ft., above ground, brs. N. 29¼°W., 70 lks. dist., marked X BO S17 on SE. face.

A limestone boulder, 4x4x1 ft. above ground, brs. N. 82° E., 27 lks. dist., marked X BO S16 on SW. face.

Thence,

N. 0°3' W., continuing measurement on sec. line.

Descend 150 ft., over NW. slope.

50.87 S. edge of bottom of Diamond Creek Canyon, brs. NE. and SW.

Thence across nearly level bottom of canyon, course SW.

55.87 N. edge of canyon bottom, brs. NE. and SW. Leave bottom of canyon.

Ascend 250 ft., over SE. slope, to

73.90 Foot of cliffs, bearing E. and SW.

Ascend 215 ft., over SE. face of cliffs, to

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 8, 9, 16 and 17, marked on brass cap,

T27N | R9 W
S 8 | S 9
S17 | S16

1920

from which,

A sandstone boulder, 4x4x3 ft. above ground, brs. N. 55° E., 53 lks. dist., marked X BOS9 on SW. face.

A sandstone boulder 4x4x1 ft. above ground, brs. S. 67° E., 69 lks. dist., marked X BO S16 on NW. face.

A sandstone boulder, 3x3x1 ft. above ground, brs. S. 59° W., 39 lks. dist., marked X BO S17 on NE. face.

A sandstone boulder 5x4x1 ft. above ground, brs. N. 49° W., 368 lks. dist., marked X BO S8 on SE. face.

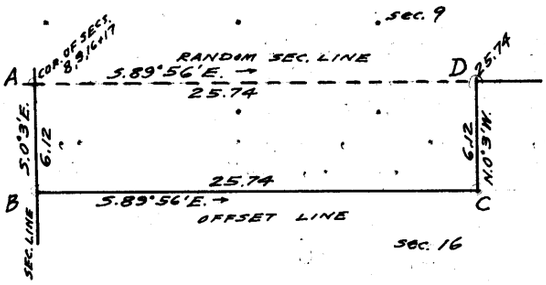
This cor. is on steep SE. slope at foot of cliffs rising

Chains.

abruptly to NW. or right rim of Diamond Creek Canyon, about 5 chs. N.
Land, mountainous.
Soil, rocky and gravelly, 4th rate.
Timber, none.
Undergrowth, scattering prickly ash, scrub palo verde and sagebrush.
No grass.

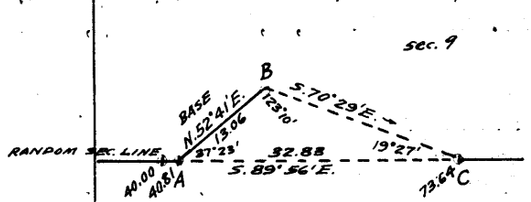
---

S.89°56'E., on a random line, bet. secs.9 and 16.
The western part of the sec.line crosses the S.face of cliffs, bearing E. and W., and chaining on this part of the line is impracticable; therefore, obtain the measurement, and avoid the cliffs by a traverse thru sec.16, as described as follows, and as shown on the diagram hereon:




From cor. of secs.8,9,16 and 17, indicated on diagram at "A," S.0°3'E., 6.12 chs. on line bet. secs. 16 and 17, to offset point "B" at foot of cliffs.
Thence,
S.89°56'E., 25.74 chs. on offset line in sec.16, parallel to true position on random line, along foot of cliffs, descending 170 ft. for 24.00 chs. to NW. edge of bottom of Diamond Creek Canyon, bearing NE and SW.
Enter bottom of canyon 200 lks. wide, course SW., and continue line and measurement to offset point "C."
Thence,
N.0°3'W., 6.12 chs. across bottom of Diamond Creek Canyon, for 1.00 ch.; thence ascend [illegible] of slightly over SE. slope to offset point "D," on random sec.line, at point "C."

25.74 Offset point.
Continue measurement on random sec.line.
40.00 Set temp. ¼ sec.cor.
40.81 Triangulation point.
41.00 Foot of cliff, bearing NE. and SW. Beyond this point the random line passes over precipitous NW. face of cliffs on SE. wall of Diamond Creek Canyon, and chaining is impracticable; therefore, triangulate as described as follows, and as shown on the diagram hereon:




From 40.81 ch. station on random line indicated on diagram at "A," measure a Base, N.52° 41'E., 13.06 chs. to point "B."
Set flag "C" ahead on random line at top of cliffs.
Vertical angle "A" to "C" = +24° 26'.

Bearing "B-C" = S.70° 29' E.
Included angles of triangle "A-B-C" are 37°23', 123°10' and 19°27', the sum of which is 180° 00'.
Triangulated measurement of "A-C" is obtained by

$$\frac{\text{sine } 123°10' \times \text{Base}}{\text{sine } 19°27'} \quad \text{or} \quad \frac{.83708 \times 13.06}{.33298} = 32.83 \text{ chs.},$$

which added to 40.81 chs. gives 73.64 chs. S.89°56'E. from sec.cor. for the position of triangulation point "C."

73.64 Triangulation point.
Continue line and measurement by chaining.
80.44 Fall 10 lks. S. of the cor. of secs. 9,10,15 and 16.

| Chains. | |
|---|---|
| | Thence, |
| | West, on true line, bet. secs.9 and 16. |
| | Over mountainous land, thru. scattering undergrowth. |
| | Over SE. or left wall of Diamond Creek Canyon. |
| | Descend 80 ft., over NW.slope,to |
| 6.80 | Triangulation point at top of cliffs, bearing E. and SW. facing NW. |
| | Thence by triangulated measurement. |
| | Descend 985 ft.,over NW. face of cliffs. |
| 39.44 | Foot of cliffs, and SE. edge of bottom of canyon, brs.NE. and W. |
| | Thence in bottom of Diamond Creek Canyon, 200 lks.wide, course West from NE., chaining measurement. |
| 39.63 | Triangulation point. |
| | Continue line and measurement by chaining. |
| 40.22 | In bottom of Diamond Creek Canyon, course W. |
| | 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 S 9 / S 16 / 1920 |
| | from which, |
| | A boulder,10x10x3 ft. above ground, brs. N.77½°W. 122 lks.dist., marked X BO S9 on SE. face. |
| | A boulder, 4x6x3 ft. above ground, brs.S.23°E.,24 lks.dist., marked X BO S16 on NW.face. |
| | Continue in bottom of Diamond Creek Canyon, 200 lks.wide, course W. |
| | Descend slightly to |
| 50.30 | N.or right edge of bottom of Diamond Creek Canyon,brs. E. and SW. Leave bottom of canyon,and ascend slightly over SE.slope,to |
| 54.70 | Offset point. Beyond this point, the sec.line passes over precipitous faces of cliffs on NW.or right wall of Diamond Creek Canyon. |
| | Measurement to sec.cor. by offset thru. sec.16, as herein-before described. |
| | Ascend about 1150 ft.to |
| 61.00 | (Approximate) Top of cliffs, brs.N. and SW. Thence across high rocky point of spur,slopes S. |
| 70.00 | (Approximate) Top of same cliffs, brs.NW. and SE. |
| | Descend about 800 ft., to |
| 80.44 | The cor.of secs.8,9,16 and 17. |
| | Land, mountainous. |
| | Soil,very rocky, 4th rate. |
| | Timber, none. |
| | Undergrowth, scattering prickly ash and sage brush. |
| | No grass. |

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The remainder of this range of secs. is unsurveyable owing to extremely mountainous character of the surface.

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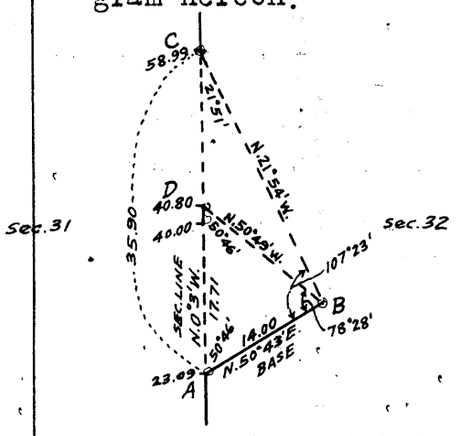
| | |
|---|---|
| | From cor.of secs. 5,6, 31 and 32,on the S.bdy.of the Tp., described in Book "F," |
| | N.0°3'W., bet. secs.31 and 32. |
| | Over mountainous land, thru. scattering timber and undergrowth. |
| | Ascend 10 ft.,over SW.slope. |
| 1.29 | Point of spur,sloping W. |
| | Descend 10 ft.over NW.slope. |
| 2.25 | Gully, 10 lks.wide, course W. |
| | Ascend 227 ft.over S.slope. |
| 16.90 | Spur,slopes W. |
| | Descend 116 ft.,over NW.slope,to |

Chains.

23.09 Top of cliffs, bearing NE. and SW., facing NW. Chaining beyond this point is impracticable; therefore, triangulate as described as follows, and as shown on the diagram hereon:




From 23.09 ch. station on sec. line indicated on diagram at "A," measure a Base, N.50° 43' E. along top of cliffs, 14.00 chs. to point "B."
Set flag "C" ahead on sec. line at top of cliffs, bearing NW. and SE., facing SW.
Set flag "D" ahead on sec. line in bottom of canyon.
Vertical angle "A-C" = - 4°.
Vertical angle "A-D" = - 41°.
Bearing of "B-D" = N. 50°49' W.
Bearing of "B-C" = N. 21°54' W.

Included angles of triangle "A-B-C" are 50°46', 107°23' and 21°51', the sum of which is 180°00'.
Included angles of triangle "A-B-D" are 50°46', 78°28' and 50°46', the sum of which is 180°00'.
Triangulated measurement of "A-C" is obtained by

$$\frac{\text{sine } 107°23' \times \text{Base}}{\text{sine } 21°51'} \text{ or } \frac{.95433 \times 14.00}{.37218} = 35.90 \text{ chs.},$$

which added to 23.09 chs., gives 58.99 chs. N.0°3'W. from sec. cor. for position of triangulation point "C."
Triangulated measurement of "A-D" is obtained by

$$\frac{\text{sine } 78°28' \times \text{Base}}{\text{sine } 50°46'} \text{ or } \frac{.97981 \times 14.00}{.77458} = 17.71 \text{ chs.},$$

which added to 23.09 chs., gives 40.80 chs., N.0°3'W., from sec. cor. for position of triangulation point "D."
From triangulation point "D" chain measurement, S.0°3'E., 0.80 chs. to

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for ¼ sec. cor., marked on brass cap,

S31 | S32
¼
1920

from which,
A limestone boulder, 15x6x1 ft. above ground, brs. N.70°E., 30 lks. dist., marked X BO S32 on SW. face.
A limestone boulder, 6x5x4 ft. above ground, brs. N.64°W., 42 lks. dist., marked X BO S31 on SE. face.

Thence,
N.0°3'W., continuing measurement by chaining.
40.80 Triangulation point in center of bottom of canyon 50 lks. wide, course N.75°W., 1016 ft. below 23.09 chs. station.
Ascend 851 ft., over precipitous SW. slope to top of cliffs.
Measurement by traingulation to
58.99 Triangulation point at top of cliffs, bearing NW. and SE., facing SW.
Continue line and measurement by chaining.
Ascend 117 ft., over SW. slope, to
64.09 Gulch, 20 lks. wide, course SW. Asc. 236 ft., over SW. slope.
76.65 Spur, slopes NW, Desc. 105 ft., over N. slope, to
80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 29, 30, 31 and 32, marked on brass cap,

T27N | R9W
S30 | S29
S31 | S32
1920

Chains.

from which,
A pine, 8 ins. in diam., brs. N. 38° E., 8 lks. dist., marked T27N R9W S29 BT.
A pine, 10 ins. in diam., brs. S. 67° E., 32 lks. dist., marked T27N R9W S32 BT.
A rock ledge 6x6x4 ft. above ground, brs. S. 27½° W., 62 lks. dist., marked X BO S31.
A pine, 10 ins. in diam., brs. N. 71° W., 155 lks. dist., marked T27N R9W S30 BT.

Land, mountainous.
Soil, rocky, 4th rate.
Timber, scattering juniper and pine.
Undergrowth, scattering prickly ash, scrub oak, cacti and sage brush.
No grass.

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N. 89° 59' E., on a random line, bet. secs. 29 and 32.
40.00 Set temp. ¼ sec. cor.
80.02 Fall 40 lks. S. of the cor. of secs. 28, 29, 32 and 33.
Thence,
S. 89° 42' W., on a true line, bet. secs. 29 and 32.
Over nearly level land on bench, devoid of timber or undergrowth.
5.00 Leave nearly level land and bench, and enter mountainous land, dense timber and scattering undergrowth.
Ascend 35 ft., over NE. slope.
15.20 Diamond Creek Trail, brs. NW. and SE.
12.00 Ridge, brs. NW. and SE. Desc. 56 ft., over SW. slope.
20.00 Ascend 20 ft., over SE. slope.
28.30 Spur, slopes SW.
Descend 75 ft., over W. slope.
35.70 Head of rocky gulch, course NW.
Ascend 25 ft., over NE. slope, to
40.01 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 S 29
S 32
1920

from which,
A pine, 10 ins. in diam., brs. N. 79½° E., 50 lks. dist., marked ¼ S 29 BT.
A pine, 10 ins. in diam., brs. S. 24½° W., 27 lks. dist., marked ¼ S 32 BT.
Ascend 32 ft., over NE. slope.
47.00 Spur, slopes NW.
Descend 180 ft. over W. slope.
54.65 Gulch, 20 lks. wide, course NW.
Ascend 142 ft., over NE. and N. slopes to
72.10 Descend 89 ft., over N. slope, to
80.02 The cor. of secs. 29, 30, 31 and 32.
Land, E. 5 chs., nearly level, remainder mountainous.
Soil, rocky, 4th rate.
Timber, dense juniper and pine in W. 75 chs.
Undergrowth, scattering prickly ash, sagebrush and cacti in W. 75 chs. No timber or undergrowth in E. 5 chs.
No grass.

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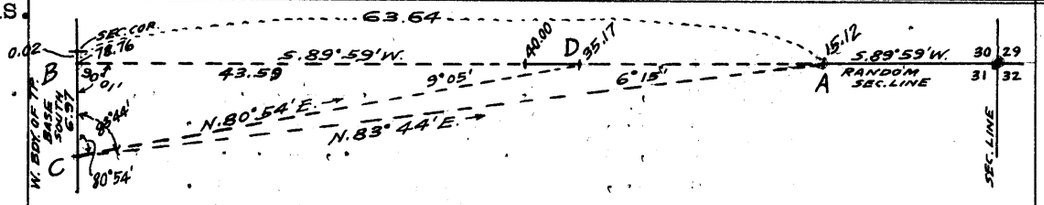
S. 89° 59' W., on random line, bet. secs. 30 and 31.
15.12 Top of cliffs. Beyond this point, the line crosses a deep canyon, course NW., the walls of which are so precipitous as to render chaining impracticable; therefore, triangulate as described as follows, and as shown on the diagram hereon.

52 Part of Subdivision lines of T. 27 N., R. 9 W.

Chains.




Set flag at 15.12 ch. station on random line indicated on diagram at "A."
A flag "B" on W. bdy. of Tp., 2 lks. S. of the cor. of secs. 25, 30, 31 and 36, brs. S.89°59'W. from "A."
Set flag "D" on random line in bottom of canyon.
From point "B," measure a Base, S. 6.97 chs. along W. bdy. of Tp. to top of a spur at point "C," whence flags "A" and "D" are both visible.
Bearing "C-D" = N.80°54' E. Bearing "C-A" = N.83°44' E.
Vertical angle from "B" to "A" = - 9°38'.
Vertical angle from "C" to "D" = - 34°07'.
Included angles of triangle "A-B-C" are 6°15', 90°01' and 83° 44', the sum of which is 180°00'.
Included angles of triangle "B-C-D" are 90°01', 80°54' and 9°05', the sum of which is 180°00'.
Triangulated measurement of "A-B" is obtained by

$$\frac{\text{sine } 83°\,44' \times \text{Base}}{\text{sine } 6°15'} \quad \text{or} \quad \frac{.99402 \times 6.97}{.10887} = 63.64 \text{ chs.},$$

which added to 15.12 chs., gives 78.76 chs. as the total length of line bet. secs. 30 and 31.
Triangulated measurement of "B-D" is obtained by

$$\frac{\text{sine } 80°54' \times \text{Base}}{\text{sine } 9°05'} \quad \text{or} \quad \frac{.98741 \times 6.97}{.15787} = 43.59 \text{ chs.},$$

which subtracted from 78.76 chs. gives 35.17 chs., S.89°59' W. from cor. of secs. 29, 30, 31 and 32, as the position of triangulation point "D."

35.17 Triangulation point "D" in bottom of canyon.
Continue line and measurement by chaining.
40.00 Set temp. ¼ sec. cor.
Discontinue chaining.
Continue line and measurement by triangulation.
78.76 Fall 2 lks. S. of the cor. of secs. 25, 30, 31 and 36, on the W. bdy. of the Tp., hereinbefore described.
Thence,
East on true line, bet. secs. 30 and 31.
Over mountainous land, thru. dense undergrowth.
Descend 156 ft., over NE. slope, to
9.09 Top of cliffs, bearing NW. and SE., facing NE. and forming W. or left rim of canyon, course NW.
Discontinue chaining.
Thence by triangulated measurement, descending 1665 ft. over precipitous NE. slope, to
38.76 Set an iron post, 3 ft. long, 4 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 ¼ sec. cor., marked on brass cap,

¼ S 30
S 31
1920

Continue line and measurement by chaining.
Descend 57 ft., over NE. slope, to
43.50 Triangulation point in bottom of canyon, 40 lks. wide, course NW. Thence by triangulated measurement, ascending 1165 ft., over precipitous SW. slope, to
63.64 Triangulation point at top of cliffs, bearing NW. and SE. facing SW. and forming E. or right rim of canyon.
Continue line and measurement by chaining.
Ascend 70 ft., over W. slope.

Chains.

68.75 Spur, slopes NW.
Descend 20 ft., over N. slope, to
78.76 The cor. of secs. 29, 30, 31 and 32.
Land, mountainous.
Soil, very rocky, 4th rate.
Timber, very scattering juniper and pine.
Undergrowth, dense sagebrush and scattering prickly ash, and scrub oak. No grass.

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N. 0° 3' W., bet. secs. 29 and 30.
Over mountainous land, thru. dense undergrowth and very scattering timber.
Descend 171 ft., over N. slope.
8.20 Gulch, 30 lks. wide, course W.
Ascend 154 ft., over S. slope.
16.70 Spur, slopes W.
Descend 174 ft., over N. slope.
27.05 Gulch, 20 lks. wide, course W. Asc. 75 ft., over S. slope.
31.20 Spur, slopes W. Desc. 102 ft., over N. slope.
32.90 Gulch, 20 lks. wide, course W. Asc. 183 ft., over S. slope, to
40.00 Set an iron post, 3 ft. long, 1 in. in dia., over cross (x) marked on surface rock, and raise a mound of stone around post, for 1/4 sec. cor., marked on brass cap,

S30 | 1/4 | S29

1920

Ascend 160 ft., over SE. slope.
51.18 Top of cliffs, bearing NW. and SW. on E. side of high rocky knoll, the top of which brs. W. about 5 chs. dist.
Descend 275 ft., over NE. and N. slopes to
65.75 Triangulation point for measurement of lines, bet. secs. 20 and 29; bet. secs. 19 and 30, and bet. secs. 19 and 20 at top of cliffs, bearing NW. and E., facing N., and forming S. or left rim of canyon. At about 2 chs. E., this rim turns to NE.
Continue line and measurement by chaining.
Descend 312 ft., over precipitous N. face of cliffs, to
70.55 Top of another series of cliffs, bearing E. and W., facing N.
Descent over the face of these cliffs is too precipitous and broken to allow continuation of chaining, and the point for the sec. cor. is inaccessible.
The 70.55 ch. station on line bet. secs. 29 and 30 being the nearest accessible point, set an iron post 3 ft. long, 2 ins. in diam., over cross (x) marked on surface rock, and raise a mound of stone around post, for witness cor. to cor. of secs. 19, 20, 29 and 30, marked on brass cap,

T27N R9 W

W | C

S19 | S20

S30 | S29

1920

Descend about 900 ft., to
80.00 True point for cor. of secs. 19, 20, 29 and 30 in bottom of canyon, course N. 85° W., where it is inaccessible. Witness cor. established at 9.45 chs., S. 0° 3' E., therefrom as described above.
Land, mountainous.
Soil, rocky, 4th rate.
Timber, very scattering juniper and pine.
Undergrowth, dense sagebrush and prickly ash.
No grass.

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The point for cor. of secs. 19, 20, 29 and 30 is inaccessible, and a traverse from the W.C. is impracticable, thus rendering the running a random line easterly bet. secs. 20 and 29 impracticable; therefore, proceed to the cor. of secs.

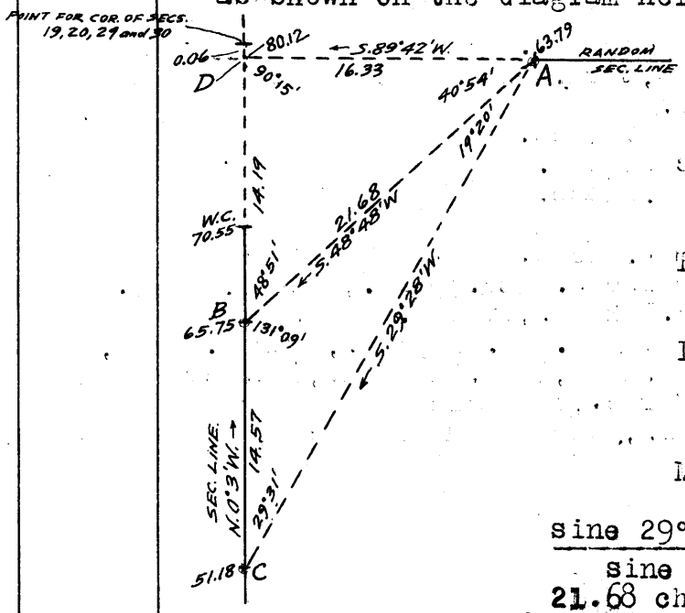
54 Part of Subdivision lines of T. 27 N., R. 9 W.

Chains.

20, 21, 28 and 29,
Thence,
S.89°42'W., on a random line, bet. secs. 20 and 29.

40.00 Set temp. ± sec. cor.

63.79 Top of cliffs, bearing NW. and SE. facing SW., and forming NE. or right rim of canyon. Precipitous descent into canyon renders continuation of chaining impracticable; therefore, triangulate as described as follows, and as shown on the diagram hereon:




From 63.79 ch. station on random line indicated on diagram at "A," flag "B" on sec. line, bet. secs. 29 and 30, at 65.75 ch. station thereon brs. S.48°48'W., and flag "C" on same line at 51.18 ch. station, brs. S.29°28'W.

The Base "B-C" of the triangle "A-B-C" is therefore S.0°3'E., 14.57 chs.

Included angles of triangle "A-B-C" are 19°20', 131°09' and 29°31', the sum of which is 180°00'.

Measurement of "A-B" is obtained by

$$\frac{\text{sine } 29°31' \times \text{Base}}{\text{sine } 19°20'} \text{ or } \frac{.49268 \times 14.57}{.33106} = 21.68 \text{ chs.}$$

The point of intersection of random line with the sec. line bet. secs. 29 and 30, indicated on diagram at "D," is inaccessible; therefore, its position is computed by the solution of the triangle "A-B-D" whose computed base "(A-B) is S.48°48'W., 21.68 chs.

Included angles of triangle "A-B-D" are 40°54', 48°51' and 90°15'; the sum of which is 180°00'.

Measurement of "A-D" is obtained by

$$\frac{\text{sine } 48°51' \times \text{Base}}{\text{sine } 90°15'} \text{ or } \frac{.75299 \times 21.68}{.99999} = 16.33 \text{ chs.,}$$ which added to 63.79 chs. gives 80.12 chs. as the length of random line bet. secs. 20 and 29.

Measurement of "B-D" is obtained by

$$\frac{\text{sine } 40°54' \times \text{Base}}{\text{sine } 90°15'} \text{ or } \frac{.65474 \times 21.68}{.99999} = 14.19 \text{ chs.,}$$ which added to 65.75 chs. gives 79.94 chs. N.9°3'W. from the cor. of secs. 29, 30, 31 and 32, or 6 lks. S.0°3'E., from the point for cor. of secs. 19, 20, 29 and 30, for the position of triangulation point "D."

80.12 Fall 6 lks. S. of the true point for cor. of secs. 19, 20, 29 and 30.

The resulting true bearing of the sec. line is S.89°45'W.

Return to cor. of secs. 20, 21, 28 and 29.

Thence,
S.89° 45'W., on a true line, bet. secs. 20 and 29.
Over mountainous land, thru. scattering undergrowth.
Ascend 279 ft., over NE. slope.

15.30 Spur, slopes NE.
Descend 129 ft., over NW. slope.

21.20 Gulch, 20 lks. wide, course NE.

Chains.

Ascend 244 ft., over E. slope.

34.40 Spur, slopes N.

Descend 107 ft. over W. slope, to

40.06 Set an iron post 3 ft. long, 1 in. in diam., 15 ins. in the ground to bed rock, and raise a mound of stone around post, for ¼ sec. cor., marked on brass cap,

¼ S 20
S 29
1920

and raise a mound of stone 2 ft. base, 1½ ft. high, N. of cor.

40.50 Gulch, 15 lks. wide, course N. 10° E.

Ascend 105 ft. over E. slope.

47.10 Spur, slopes NE.

Descend 10 ft., over NW. slope.

52.12 Head of gulch, course NE.

Ascend 57 ft. over NE. slope.

55.00 Fork of spur from SE., extending N. and W. Diamond Creek Trail, brs. N. and SE.

Descend 106 ft., along top of spur, to

63.79 Triangulation point at top of cliffs, bearing NW. and SE., facing SW. and forming right rim of canyon. Leave top of spur which turns to NW. at this point.

Descend about 900 ft. over cliffs.

Measurement by triangulation to

80.12 True point for cor. of secs. 19, 20, 29 and 30 in bottom of canyon, course N. 85° W.

Land, mountainous.

Soil, rocky, 4th rate.

Timber, none.

Undergrowth, scattering prickly ash and sagebrush.

No grass.

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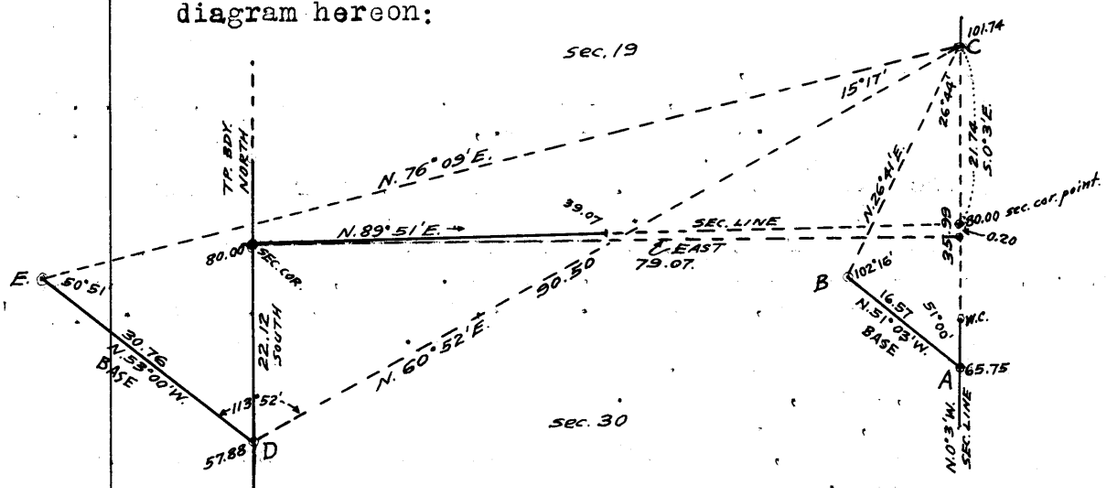
The east half of line bet. secs. 19 and 30 is almost impassable, and a random line west is impracticable; therefore, triangulate the measurement of the entire line, as described as follows, and as shown on the diagram hereon:




From 65.75 ch. station on line bet. secs. 29 and 30, indicated on diagram at "A," measure a Base N. 51° 03' W., 16.57 chs. to point "B."

Set flag "C" on line bet. secs. 19 and 20, bearing N. 0° 3' W. from "A" and N. 26° 41' E. from "B."

Included angles of triangle "A-B-C" are 51° 00', 102° 16' and 26° 44', the sum of which is 180° 00'.

Measurement of "A-C" is obtained by

Chains.

$\frac{\text{sine } 102°16' \times \text{Base}}{\text{sine } 26°44'}$ or $\frac{.97717 \times 16.57}{.44984}$ = 35.99 chs.,

which added to 65.75 chs. gives 101.74 chs. N.0°3' W. from cor.of secs.29,30,31 and 32 or 21.74 chs.N.0° 3'W. from point for cor.of secs. 19,20,29 and 30.

From 57.88 ch.station on W.bdy.of Tp.,bet.secs.25 and 30, indicated on diagram at "D," measure a Base N.53°00' W., 30.76 chs. to point "E."

Bearing "D-C" = N.60°52'E. Bearing "E-C" = N.76°09'E.

Included angles of triangle "C-D-E" are 15°17',113°52' and 50°51', the sum of which is 180°00'.

Measurement of "D-C" is obtained by

$\frac{\text{sine } 50°51' \times \text{Base}}{\text{sine } 15°17'}$ or $\frac{.77550 \times 30.76}{.26359}$ = 90.50 chs.

Traverse from cor. of secs. 19,24,25 and 30 on W.bdy.of Tp. to the point for cor.of secs. 19,20,29 and 30,resulting from the above described triangulation is as follows:

South - 22.12 chs.
N.60°52'E.- 90.50 chs., and
S.0°3'E. - 21.74 chs.

the easting of which is 79.07 chs., and the northing 0.20 chs.

The true bearing and length of the sec.line bet. secs.19 and 30 are therefore N.89°51'E., 79.07 chs.

From cor. of secs. 19,24, 25 and 30 on W. bdy.of Tp., hereinbefore described.

N.89°51'E.,on true line, bet. secs.19 and 30.

Over mountainous land, thru. scattering undergrowth.

Ascend 335 ft.,over SW. slope.

20.48 Descend 13 ft.,over SE.slope.

24.30 Bottom of canyon, 30 lks.wide, course SW.

Ascend 335 ft., over NW.slope,to

39.07 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 S 19
S 30
1920

from which,

A boulder, 16x10x8 ins. above ground, brs.S.17° E., 161 lks.dist., marked X BO S30 on NW. face.

Discontinue chaining. Measurement of remainder of line by triangulation.

Ascend over very steep broken NW. and N.slopes to

79.07 The true point for cor.of secs.19,20,29 and 30 in bottom of canyon, course N.85°W., witnessed 9.45 chs. S.0°3' E., as hereinbefore described.

Land, mountainous.

Soil,rocky, 4th rate.

Timber, none.

Undergrowth, scattering prickly ash and sagebrush.

No grass.

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

Over mountainous land, thru. dense undergrowth, ascending over precipitous S.slope on N.or right wall of a canyon.

Measurement for 21.74 chs. by triangulation, hereinbefore described.

From triangulation point, chain measurement S.0°3'E.,2.77 chs. to

Chains.

18.97 Top of cliffs, bearing SE. and W. facing S. and forming N.or right rim of canyon.
Thence,
N.0°3'W., continuing measurement from sec.cor.point.
Ascend 20 ft., over SW.slope.
21.74 Triangulation point on top of spur, sloping NW.
Descend 408 ft.,over steep rocky N.slope, to
33.64 Top of cliff, bearing E. and NW. facing N., and forming W.or left rim of a side canyon, course N. At about 2.00 chs. NW., this rim turns to N.
Descend 113 ft.over N.slope,to
38.00 Head of gulch, course NE.
Ascend 15 ft., over SE.slope,to
40.00 Set an iron post, 3 ft.long, 1 in. in diam.,over cross (x) marked on surface rock, and raise a mound of stone around post, for ¼ sec.cor., marked on brass cap,

¼
S19 | S20
1920

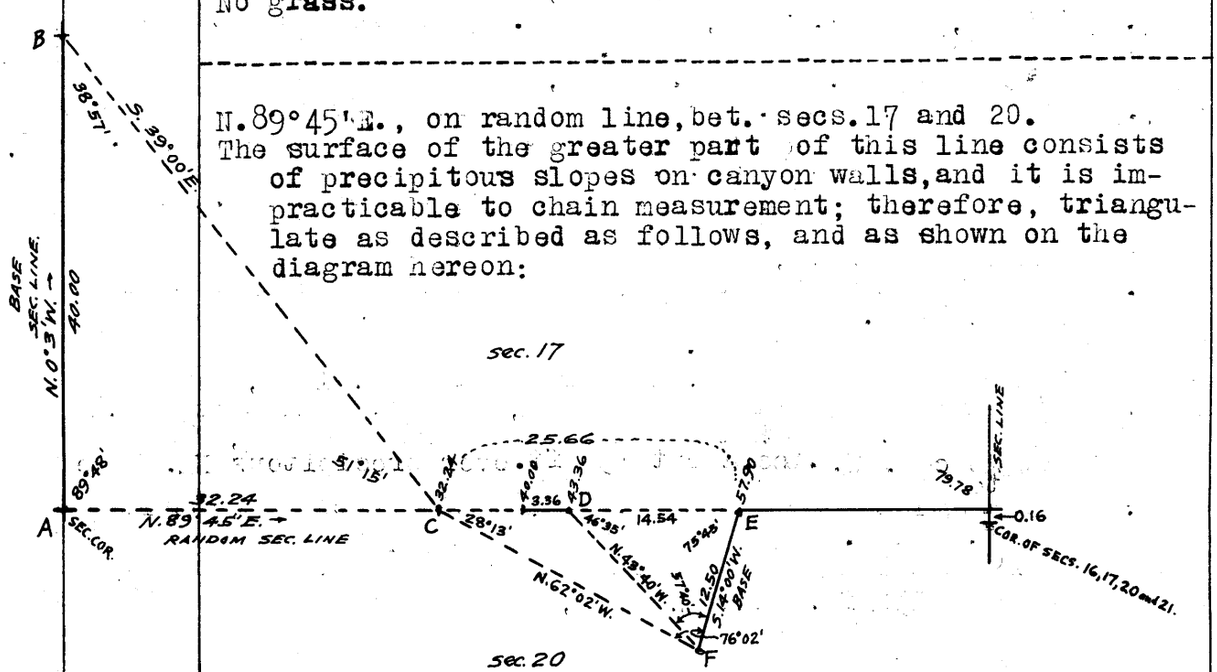
from which,
Face of cliff, brs. S.82½°W., 65 lks.dist., marked X BC S19.
Thence,along steep broken E. slope of W. or left wall of side canyon, the rim of which brs.N. and S. at about 2.00 chs.W.of line.
Descend 180 ft.to
58.80 W.or left wall of side canyon, merges into S.or left wall of Diamond Creek Canyon.
Descend 586 ft.over steep NE.slope,to
80.00 Set an iron post 3 ft.long, 2 ins. in diam.,12 ins. in diam., 12 ins. in the ground to bed rock, and raise a mound of stone around post for cor. of secs.17,18,19 and 20, marked on brass cap,

T27N | R9 W
S18 | S17
S19 | S20
1920

and raise a mound of stone 2 ft.base, 1½ ft.high,W of cor.
Land,mountainous.
Soil,rocky, 4th rate.
Timber, none.
Undergrowth; dense prickly ash and sagebrush.
No grass.

---

N.89°45'E., on random line,bet. secs.17 and 20.
The surface of the greater part of this line consists of precipitous slopes on canyon walls,and it is impracticable to chain measurement; therefore, triangulate as described as follows, and as shown on the diagram hereon:



| Chains. | |
|---|---|
| | From cor. of secs. 17,18,19 and 20, indicated on diagram at "A" measure a Base N.0°3'W., 40.00 chs. to point "B," at ¼ sec. cor. of secs. 17 and 18. |
| | Set flags ahead on random line at points "C," "D" and "E" |
| | From flag "E" measure a Base S.14° W., 12.50 chs. to point "F." |
| | Bearing "B-C" = S.39°E. Bearing "F-C" = N.62°02'W. |
| | Bearing "F-D" = N. 43° 40'W. |
| | Vertical angle of "A-C" = + 16°. Vertical angle of "C-E" = - 22½°. Vertical angle of "D-E" = 0°. |
| | Included angles of triangle "A-B-C" are 89°48', 38°57' and 51°15', the sum of which is 180°00'. |
| | Measurement of "A-C", is obtained by |
| | $\frac{\text{sine } 38°57' \times \text{Base}}{\text{sine } 51°15'}$ or $\frac{.62864 \times 40}{.77988}$ = 32.24 chs. |
| 32.24 | Triangulation point "C." |
| | Included angles of triangle "C-E-F" are 28°13', 75°45' and 76°02', the sum of which is 180°00'. |
| | Measurement of "C-E" is obtained by |
| | $\frac{\text{sine } 76°02' \times \text{Base}}{\text{sine } 28°13'}$ or $\frac{.97044 \times 12.50}{.47281}$ = 25.66 chs., |
| | which added to 32.24 chs. gives 57.90 chs. N.89°45'E. from sec. cor. for the position of triangulation point "E." |
| | Included angles of triangle "D-E-F" are 46°35', 75°45' and 57°40', the sum of which is 180°00'. |
| | Measurement of "D-E" is obtained by |
| | $\frac{\text{sine } 57°40' \times \text{Base}}{\text{sine } 46°35'}$ or $\frac{.84495 \times 12.50}{.72637}$ = 14.54 chs., |
| | which subtracted from 57.90 chs. gives 43.36 chs., N. 89°45'E. from sec. cor. for the position of triangulation point "D." |
| | From triangulation point "E," chain measurement, S. 89° 45'W., 3.36 chs. to |
| 40.00 | Set temp. ¼ sec. cor. |
| | Thence |
| | N.89°45'E., continuing measurement by chaining to |
| 43.36 | Triangulation point "D." |
| | Discontinue chaining. |
| 57.90 | Triangulation point "E." |
| | Continue line and measurement by chaining. |
| 79.78 | Fall 16 lks. N. of the cor. of secs. 16,17,20 and 21. |
| | Thence, |
| | S.89°52' W., on true line, bet. secs. 17 and 20. |
| | Over mountainous land, thru. dense undergrowth, along N. or right wall of canyon, course W. near foot of same. |
| | Descend 66 ft., over SW. slope, to |
| 4.65 | Gulch, 20 lks. wide, course SW. Continue along canyon wall near foot of same. |
| | Ascend 27 ft. over SE. slope, to |
| 7.56 | A point 1.50 chs. N. of Diamond Creek Spring. |
| | Thence along S. slope, near bottom of canyon, course W. at about 1.50 chs. S. of line. |
| | Cliffs bearing E. and W. rise abruptly to the N. of line. |
| | Descend 60 ft. to |
| 21.88 | Triangulation point at E. or right rim of canyon bearing N. and S. |
| | Discontinue chaining. |
| | Descend about 150 ft. over precipitous W. slope, to |
| 28.00 | (Approximate) Bottom of canyon, 50 lks. wide, course N., and NW. into bottom of Diamond Creek Canyon, about 40 chs. NW. Asc. about 150 ft. over precipitous NE. slope to |
| 36.42 | Triangulation point at W. or left rim of canyon, bearing N. and S. |
| | Continue line and measurement by chaining. |
| | Ascend 132 ft., over E. slope, to |

Chains.

39.89 Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground to bed rock, and raise a mound of stone around post for ¼ sec. cor., marked on brass cap,

¼ S 17
S 20
1920

from which,
E. face of cliff, brs. S. 82½° W., 81 lks. dist., marked X BC S20.
E. face of cliff, brs. N. 40½° W., 86 lks. dist., marked X BC S.17.

Discontinue chaining. Measurement to sec. cor. by triangulation.
Ascend 570 ft. over face of cliffs, bearing NW and SE.

47.54 Triangulation point on top of high rocky spur, sloping N. into Diamond Creek Canyon.
Descend about 100 ft., over W. slope, to

55.00 (Approximate) L. or right rim of side canyon, brs. N. and S.
Descend about 500 ft., or

65.00 (Approximate) Bottom of side canyon, 10 lks. wide, course N.
Ascend about 400 ft., over N.E. slope, to

79.78 The cor. of secs. 17, 18, 19 and 20.
Land, mountainous.
Soil, very rocky, 4th rate.
Timber, none.
Undergrowth, dense prickly ash and sagebrush.
No grass.

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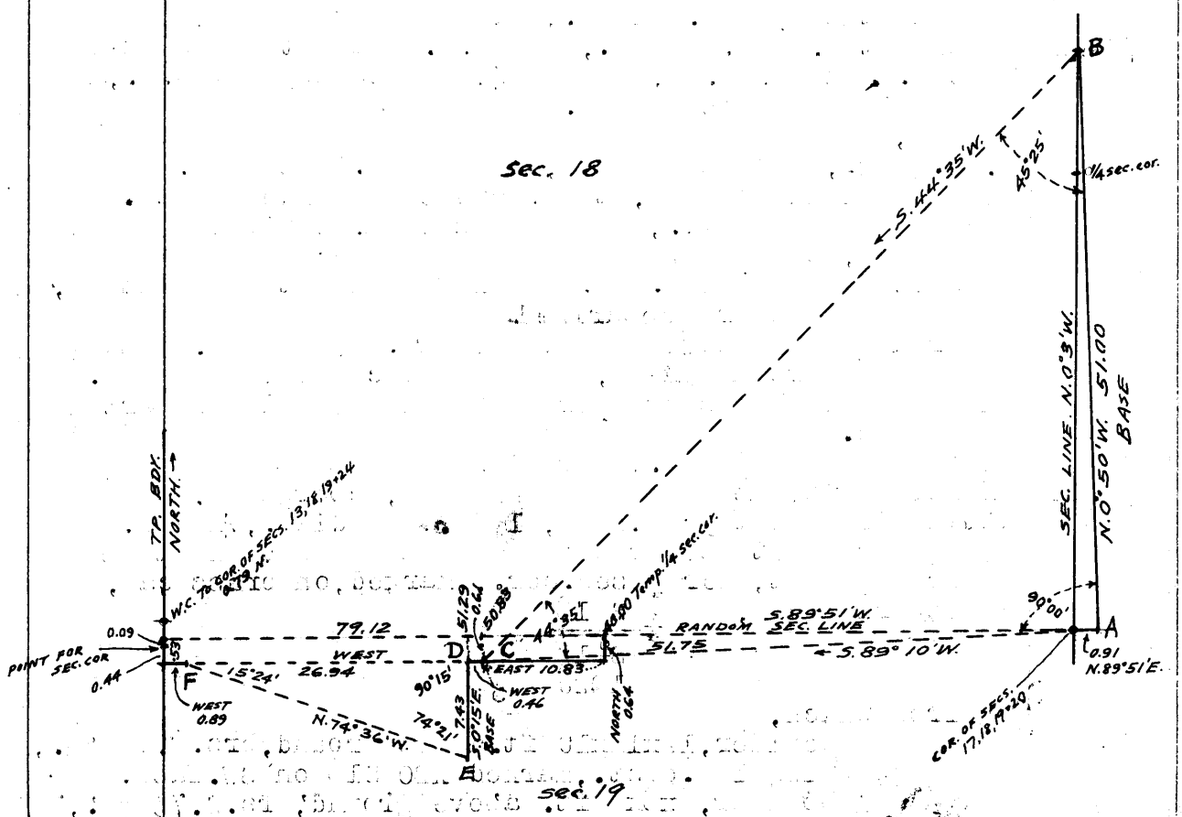
S. 89° 51' W., on random line, bet. secs. 18 and 19.
The surface thru. the entire length of this line is broken by cliffs, and very steep rocky slopes, and chaining is impracticable; therefore, triangulate as described as follows, and as shown on the diagram hereon:




No point on the random line suitable to flag can be found; therefore set flag "C," at a prominent point S. of the random sec. line. This flag is invisible from cor. of secs. 17, 18, 19 and 20; therefore, from said cor.

6d Part of Subdivision lines of T. 27 N., R. 9 W.

Chains.

measure N.89°51'E., 91 lks. to point "A," from which flag "C" brs. S.89°10'W.
From "A" measure a Base, N.0°50'W., 51.00 chs. to point "B," from which flag "C" is also visible.
Bearing of "B-C" = S.44° 35' W.
Included angles of triangle "A-B-C" are 90°00', 45°25' and 44°35', the sum of which is 180°00'.
Measurement of "A-C" is obtained by
tang. 45°25' x Base or 1.01465 x 51.00 = 51.75 chs.
Triangulation point "C," is therefore 61 lks. S. of a point 51.74 chs., S.89°51' W. from "A" or 61 lks. S. of 50.83 ch. station on random sec. line.
It being impracticable to reach the random sec. line, N. of point "C", chain measurement East on offset line in sec. 19, 10.83 chs.; thence N. 64 lks. to point on random line at

40.00 Set temp. ¼ sec. cor.
Thence, return on offset line to triangulation point "C" and chain measurement West, 46 lks. to triangulation point "D," 61 lks. S. of 51.29 ch. station on random line, beyond which chaining is impracticable.
Set flag "F," at a point West from "D."
From "D" measure a Base, S.0°15'E., 7.43 chs. to point "E" from which flag "F" brs. N.74°36'W.
Included angles of triangle "D-E-F" are 90°15', 74°21' and 15°24', the sum of which is 180°00'.
Measurement of "D-F" is obtained by

$$\frac{\text{sine } 74°\ 21' \times \text{Base}}{\text{sine } 15°24'} \text{ or } \frac{.96293 \times 7.43}{.26556} = 26.94 \text{ chs.},$$

which, added to 51.29 chs. gives 78.23 chs, westing from cor. of secs. 17, 18, 19 and 20, for the position of triangulation point "F,".
Thence,
West, 89 lks. on offset line chaining measurement to a point on W. bdy. of Tp., 44 lks. S. of true point for cor. of secs. 13, 18, 19 and 24, and 53 lks. S. of theoretical point of intersection of the random sec. line with the W. bdy. of Tp., at

79.12 Intersect W. bdy. of Tp., 9 lks. N. of the true point for cor. of secs. 13, 18, 19 and 24, witnessed 79 lks. N., as hereinbefore described.
Thence,
N.89°47'E., on a true line, bet. secs. 18 and 19.
Over mountainous land, thru. scattering undergrowth.
Ascend about 400 ft., over cliffs on N. or right wall of canyon, course W.
Measurement to ¼ sec. cor. by offset and triangulation, as hereinbefore described.

28.00 (Approximate) Saddle in divide, brs. NW. and SE. between Diamond Creek Canyon, and head of canyon, course W.
Thence over cliffs on S. or left wall of Diamond Creek Canyon.
Descend about 350 ft., over cliffs to

39.12 Offset point, near head of a gulch, course NE.
Set an iron post 3 ft. long, 1 ins. in diam., 2 ins. in the ground to bed rock and raise a mound of stone around post, for ½ sec. cor., marked, on brass cap,

$$\frac{\frac{1}{4}\ \frac{S\ 18}{S\ 19}}{1920}$$

from which,
A boulder, 12x12x10 ft. above ground, brs. N.71¼°E., 124 lks. dist., marked XBO S18 on SW. face.
A boulder, 8x8x6 ft. above ground, brs. S.75¼°W., 65 lks. dist., marked XBO S19 on NE. face.
Thence by triangulated measurement to sec. cor., over steep W. slope, broken by cliffs on S. or left wall of Diamond Creek Canyon.

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

Chains.

Land, mountainous.
Soil, rocky, 4th rate.
Timber, none.
Undergrowth, scattering prickly ash, sagebrush and cacti.
No grass.

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N.0°3'W., bet. secs.17 and 18.
Over mountainous land, thru. scattering undergrowth, on S. of left wall of Diamond Creek Canyon.
Descend 570 ft., over NE. slope, to
40.00 In center of bottom of Diamond Creek Canyon, 2 chs. wide, course NW., set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the ground, to bed rock, and deposit a stone, marked with a cross (x) at base of post, and raise mound of stone around post, for ¼ sec. cor., marked on brass cap,

S18 | ¼ | S17
1920

from which,
A granite boulder, 6x5x3 ft. above ground, brs. S.74½°W., 34 lks. dist., marked XBO S18 on NE. face.
Thence, over N. or right wall of Diamond Creek Canyon, bearing N. and S. into a side canyon.
Ascend 324 ft. over broken SW. slope.
72.90 Descend 74 ft., over NW. slope, to
80.00 On E. or left wall of side canyon, Set an iron post 3 ft. long, 2 ins. in diam., over cross (x) marked on surface rock, and raise a mound of stone around post, for cor. of secs. 7,8,17 and 18, marked on brass cap,

T27N | R9W
S 7 | S 8
S18 | S17
1920

from which,
A granite boulder, 8x7x3 ft. above ground, brs. N.26½°W., 58 lks. dist., marked XBO S7 on SE. face.
Land, mountainous.
Soil, rocky, 4th rate.
Timber, none.
Undergrowth, scattering prickly ash, sagebrush and cacti.
No grass.
The line bet. secs.8 and 17, passes over extremely rough, mountainous land, which is impracticable to survey by either chaining or triangulation. About 10 chs. W. from the E. end of the line, t[illegible] the N. or right rim of Diamond Creek Canyon, brs. NE. and SW., and at about 20 chs. E. from the W. end of the line, the same rim brs. N. and S., merging into the rim of a side canyon about a mile long, course S., thru. which the line bet. secs.7 and 8 passes.

---

West, on a random line, bet. secs.7 and 18.
32.73 Triangulation point bearing N.47°35'E., from point "E," of traverse hereinbefore described in notes of survey of part of the W. bdy. of the Tp. (bet. secs.13 and 18).
40.00 Set temp. ¼ sec. cor.
72.16 Point from which traverse point "E" bears south.
79.05 Set temp. cor. of secs.7,12,13 and 18.
79.20 Point determined by triangulation to be 80.00 chs. North from the cor. of secs.13,18,19 and 24, on W. bdy. of Tp., at which point the cor. of secs.7,12,13 and 18 is established, as hereinbefore described, and from which the traverse point "E," brs. S.11°04'E.
Thence,

| Chains. | |
|---|---|
| | East, on a true line, bet. secs. 7 and 18. |
| | Over mountainous land, thru. scattering undergrowth, along S. or left wall of Diamond Creek Canyon, bearing E. and W. |
| | Ascend 153 ft., over broken N. slope, to |
| 9.20 | Descend 16 ft., over N. slope, to |
| 10.54 | S. or left edge of bottom of Diamond Creek Canyon, brs. NW. and SE. |
| | Thence across canyon bottom, course NW. from E.; ascend slightly to |
| 18.42 | N. or right edge of canyon bottom, brs. NW. and SE. Leave bottom of Diamond Creek Canyon. Thence along N. or right wall of canyon. |
| | Ascend 213 ft. over S. and SW. slopes, to |
| 39.20 | 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 S 7 / S 18 / 1920 |
| | from which, |
| | A granite boulder, 6x6x5 ft. above ground, brs. S. 23½° E., 118 lks. dist., marked X B0 S18. on NW. face. |
| | and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. |
| | Ascend 153 ft., over SW. slope. |
| 48.86 | Point of spur, sloping S. |
| | Descend 50 ft., over SE. slope. |
| 65.00 | Gully, 50 lks. wide, course SW. in bottom of side canyon. |
| | Ascend 239 ft., over NW. and N. slopes, to |
| 79.20 | The cor. of secs. 7, 8, 17 and 18, on W. wall of side canyon. |
| | Land, mountainous. |
| | Soil, rocky, 4th rate. |
| | Timber, none. |
| | Undergrowth, scattering sage brush and cacti. |
| | No grass. |
| | --- |
| | N. 0° 3' W., bet. secs. 7 and 8. |
| | Over mountainous land, thru. scattering undergrowth, in a side canyon about 40 chs. wide, and about a mile long, course S. into Diamond Creek Canyon. |
| | Descend 20 ft., over NW. slope, to |
| 3.78 | Gully, course W., near head. |
| | Descend 65 ft., over W. slope, to |
| 15.54 | Ascend 43 ft., over SW. slope. |
| 20.19 | Descend 16 ft., over NW. slope. |
| 24.84 | Gully, course SW. in bottom of canyon. |
| | Ascend 25 ft., over SE. slope, to |
| 32.37 | Same gully, course SE. Asc. 25 ft. over SW. slope, to |
| 37.84 | Same gully, course SW. Asc. 35 ft., over S. slope, to |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the ground to bed. rock, deposit a stone, marked with a cross (x) at base of post, and raise a mound of stone around post, for ¼ sec. cor., marked on brass cap, |
| | ¼ / S 7 \| S 8 / 1920 |
| | Ascend 150 ft., over S. slope. |

| Chains. | |
|---|---|
| 45.85 | Point of spur, sloping E.<br>Descend 55 ft., over N. slope. |
| 47.70 | Gulch, course E.<br>Ascend 216 ft., over S. slope. |
| 63.95 | Point of spur, sloping E.<br>Descend 60 ft., over N. slope. |
| 65.50 | Gulch; course SE. in bottom of canyon.<br>Thence over steep S. slope, broken by cliffs.<br>Ascend 526 ft., to |
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in diam., 10 ins. in the ground to bed rock, deposit a stone, marked with a cross (x) at base of post, and raise a mound of stone around post for cor. of secs. 5, 6, 7 and 8, marked on brass cap,<br><br>T27N \| R9 W<br>S 6 \| S 5<br>S 7 \| S 8<br>1920<br><br>Land, mountainous.<br>Soil, rocky, 4th rate.<br>Timber, none.<br>Undergrowth, scattering scrub juniper, Spanish bayonet, sagebrush and cacti.<br>No grass. |

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The rim of the side canyon thru. which the line bet. secs. 7 and 8 passes, is about 10 chs. N. of the cor. of 5, 6, 7 and 8, where it bears E. and W., and the head of same canyon is about 20 chs. W. from same sec. cor.
The survey of subdivision lines E., W., or N. from said sec. cor. is impracticable by any method as the surface is extremely mountainous and broken by many high cliffs which cannot be scaled.

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The continued satisfactory adjustment of the solar apparatus during the survey of this township is indicated from field tests described in Book "J."

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Boundaries of that portion of T.27 N., R.9 W.inclosed by the surveys executed under Group No.107(27 sections.)

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Latitudes, Departurs and Closing Errors.

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| Line designated. | True course. | Dist. | Latitudes. N. | Latitudes. S. | Departures. E. | Departures. W |
|---|---|---|---|---|---|---|
| South boundary, | S.89°59'W. | 478.74 | | .14 | | 478.74 |
| West boundary, | North, | 320.00 | 320.00 | | | |
| Subdivisional boundary | East, | 79.20 | | | 79.20 | |
| | S.0°3'E. | 80.00 | | 80.00 | .07 | |
| | N.89°52'E. | 79.77 | .19 | | 79.77 | |
| | N.0°3'W. | 80.00 | 80.00 | | | .07 |
| | East, | 80.44 | | | 80.44 | |
| | N.89°53'E. | 80.20 | .16 | | 80.20 | |
| | N.0°1'W. | 80.00 | 80.00 | | | .02 |
| | N.0°7'E. | 79.74 | 79.74 | | .16 | |
| North boundary, | N.89°59'E. | 160.00 | .05 | | 160.00 | |
| East boundary, | South, | 480.55 | | 480.55 | | |
| Convergency, | | | | | .38 | |
| Totals, | | 560.14 | 560.14 | 560.69 | 480.22 | 478.83 |
| | | | | 560.14 | 478.83 | |
| Error in latitude, | | | | 0.55 | | |
| Error in departure, | | | | | 1.39 | |

## GENERAL DESCRIPTION.

The portion of this township surveyed as described in the foregoing field notes lies entirely within the Hualpai Indian Reservation, and includes all the land which it is practicable to survey. The surface of secs.3,4, 5,6,7,8 and 9, and the north halves of secs.10 and 17 is extremely mountainous and broken and almost impassable, and for that reason no attempt to survey such portion of the township was made.

The drainage of most of the surveyed area is into the Diamond Creek Canyon, the bottom of which traverses the north half of the township, entering on the N.bdy. of sec.3, course S., and leaving at the cor.of secs. 7,12,13 and 18 on the W. bdy.of the Tp., course W. and NW. into the Colorado River Canyon at about 5 miles northwesterly from said sec.cor. The left upper rim of the Colorado River Canyon parallels Diamond Creek Canyon, and passes thru. the unsurveyed portion of this township near the point for the NW.cor.

The surface of the surveyed portion, with the exception of a few scattered small areas of level and nearly level land, is mountainous, and the soil is all gravelly and rocky, 4th rate.

The timber consists of juniper and pine and is dense over the greater part of the east two ranges of secs.There

is no timber over the portion covered by the walls of Diamond Creek Canyon, and in the side canyon thereto, the timber is scattering.
The undergrowth consists of sage brush, prickly ash, scrub juniper, scrub oak and cacti, and covers most of the surface in a scattering growth.
There is very little grass in the township.
There is one spring in sec. 20, known as Diamond Creek Spring, and is the only permanent running water found.
No indications of valuable mineral deposits were observed in any part.
There are no settlers, and the only improvement is a short line of fence in secs. 23 and 26.
A road extends from near the center of S. bdy. of sec. 33, southeasterly to Blue Mountain Tank.
A trail leads from this road, northwesterly to bottom of Diamond Creek Canyon.

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4—680

BOOK 3535

# FIELD ASSISTANTS.

to Kenneth W. Bond, U. S. Transitman

| NAMES. | CAPACITY. |
|---|---|
| David M. Dougherty, | 1st chainman, |
| Robert M. Tatum, | 2nd chainman, and cornerman, |
| Jesse Potter, | axman and 2nd chainman, |
| Forest Nimmo, | cornerman, |
| Richard Rankin, | axman and cornerman, |
| Jack Peterson, | flagman, |
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BOOK 3535

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# CERTIFICATE OF UNITED STATES TRANSITMAN.

I, Kenneth W. Bond, Transitman, U. S. ~~Surveyor~~, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General, for Group 107, Arizona, bearing date of the 25th. day of February, 1920, I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the West boundary, and Subdivision lines of Township 27 North, Range 9 West.

of the Gila and Salt River Base and Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed by me, and under my direction; and that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General, for Group 107, Arizona, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

and by diagram on page 2 hereof

Place, Denver, Colorado.

Date, May 18, 1921

Kenneth W. Bond.
U.S. Transitman. ~~U.S. Surveyor.~~

## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

_____, 191

The foregoing field notes of the survey of _____

executed by _____

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

_____
*U. S. Surveyor General.*

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

_____
*U. S. Surveyor General.*

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BOOK 3535

4—680

## FIELD ASSISTANTS.

to Quintin Campbell, U. S. Surveyor,

| NAMES. | CAPACITY. |
|---|---|
| Ralph Gibson, | 1st chainman, |
| John W. Holland, | 2nd chainman, |
| Richard Rankin, | cornerman, |
| Joseph Sepule, | axman, |
| Harry Severns, | flagman. |
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BOOK 3535

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# CERTIFICATE OF UNITED STATES SURVEYOR.

I, Quintin Campbell, U. S. Surveyor, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General, for Group 107, Arizona, bearing date of the 25th day of February, 1920, I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the West and North boundaries and Subdivision lines of

Township 27 North, Range 9 West,

of the Gila and Salt River Base and Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed by me, and under my direction; and by diagram on page 2 hereof 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 107, 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 - March 31-1922

Quintin Campbell
U. S. Surveyor.

## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona, February 13, 1923.

The foregoing field notes of the survey of part of the West boundary (the South 4 miles) part of the North boundary (the East 3 miles) and part of the Subdivision lines of

Township 27 North, Range 9 West,

of the Gila and Salt River Base and Meridian,

in the State of Arizona,

executed by Quintin Campbell, U. S. Surveyor, and Kenneth W. Bond, U. S. Transitman, under special instructions dated Feby. 25, 1920, for Group 107, Arizona, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank A. Gooch
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.~~

6—2764