

FIELD NOTES

OF THE SURVEY OF THE

East Boundary

Part of the South Boundary

All of the Subdivision Lines

Meanders of Right and Left Banks of
the Colorado River within Section 3

and

Traverse of the East and West Rims of
Marble Canyon of the Colorado River

within

Township 39 North, Range 7 East

Of the Gila and Salt River Base and Meridian,

In the State of Arizona

EXECUTED BY

Karl L. Siebecker, U.S. Surveyor

In the capacity of U. S. Surveyor, under Special Instructions dated May 28, 1929, issued by the District Cadastral Engineer to govern surveys included in Group No. 158 Arizona, which were approved by the Commissioner of the General Land Office, June 8, 1929, and Assignment Instructions dated Nov. 7, 1929

Survey commenced March 10, 1930.

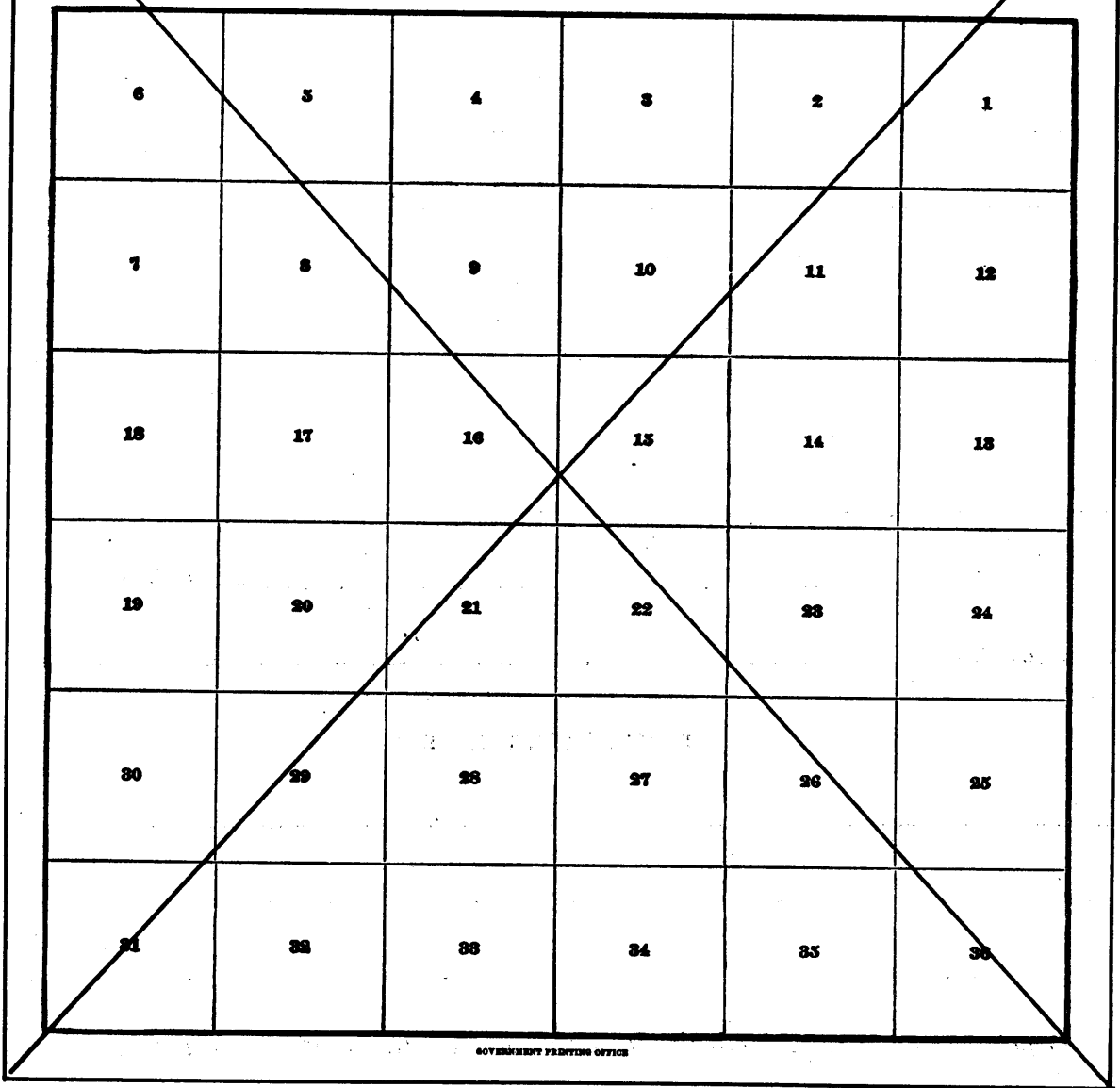
Survey completed April 5, 1930.

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3898

INDEX DIAGRAM.

Township _____, Range _____



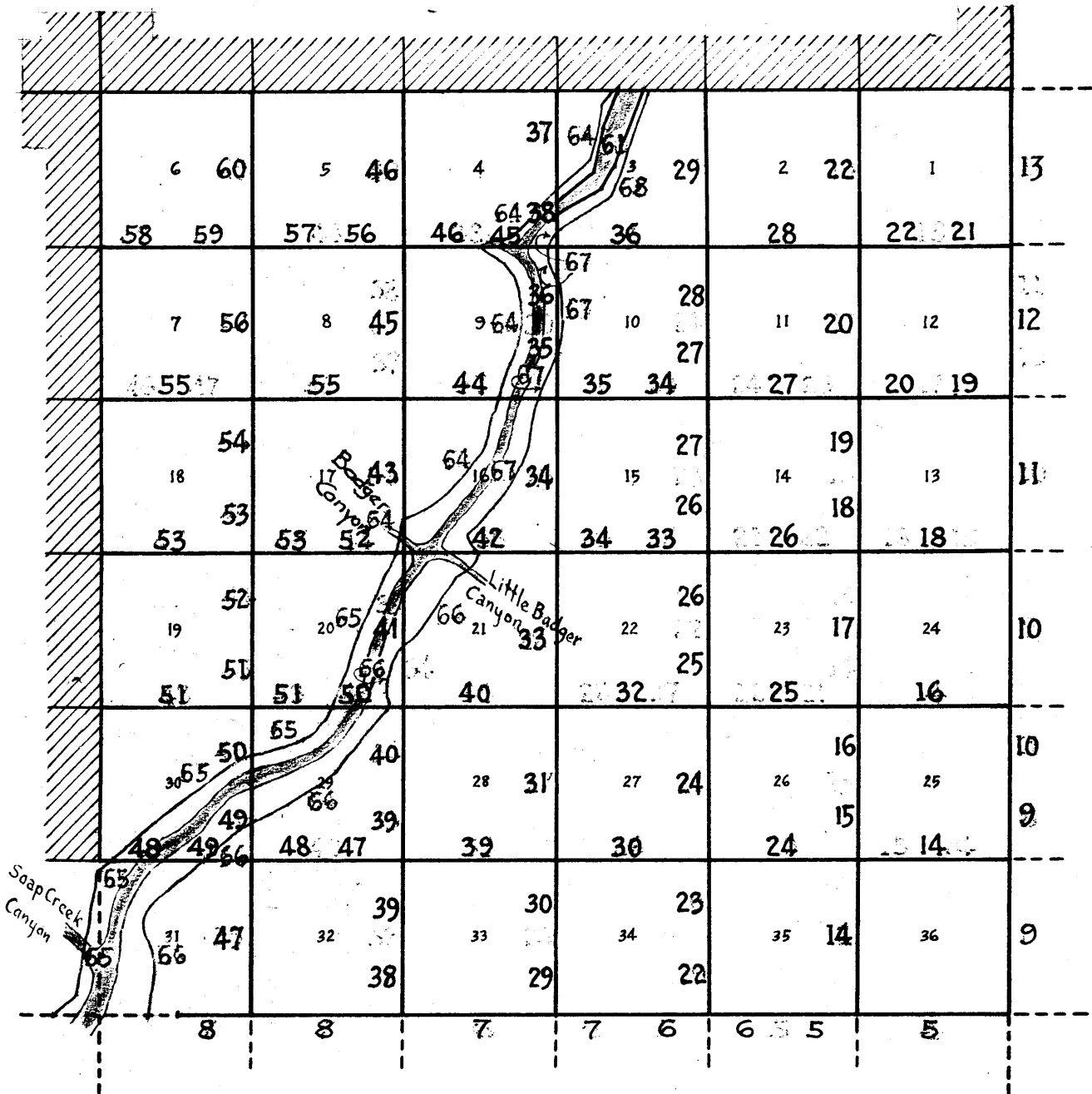
Book "D"

Group 158 Arizona

Township 39 North, Range 7 East

INDEX DIAGRAM

BOOK 3898



———— Township boundaries & Subdivision Lines surveyed under this group.

———— Township boundaries & Subdivision Lines previously surveyed & accepted.

———— Meanders of Colorado River surveyed under this group.

———— Rims of Marble Canyon traversed under this group.

----- Unserved township boundaries and subdivision lines.

▨ Areas surveyed as per accepted plats on file.

Book "D"

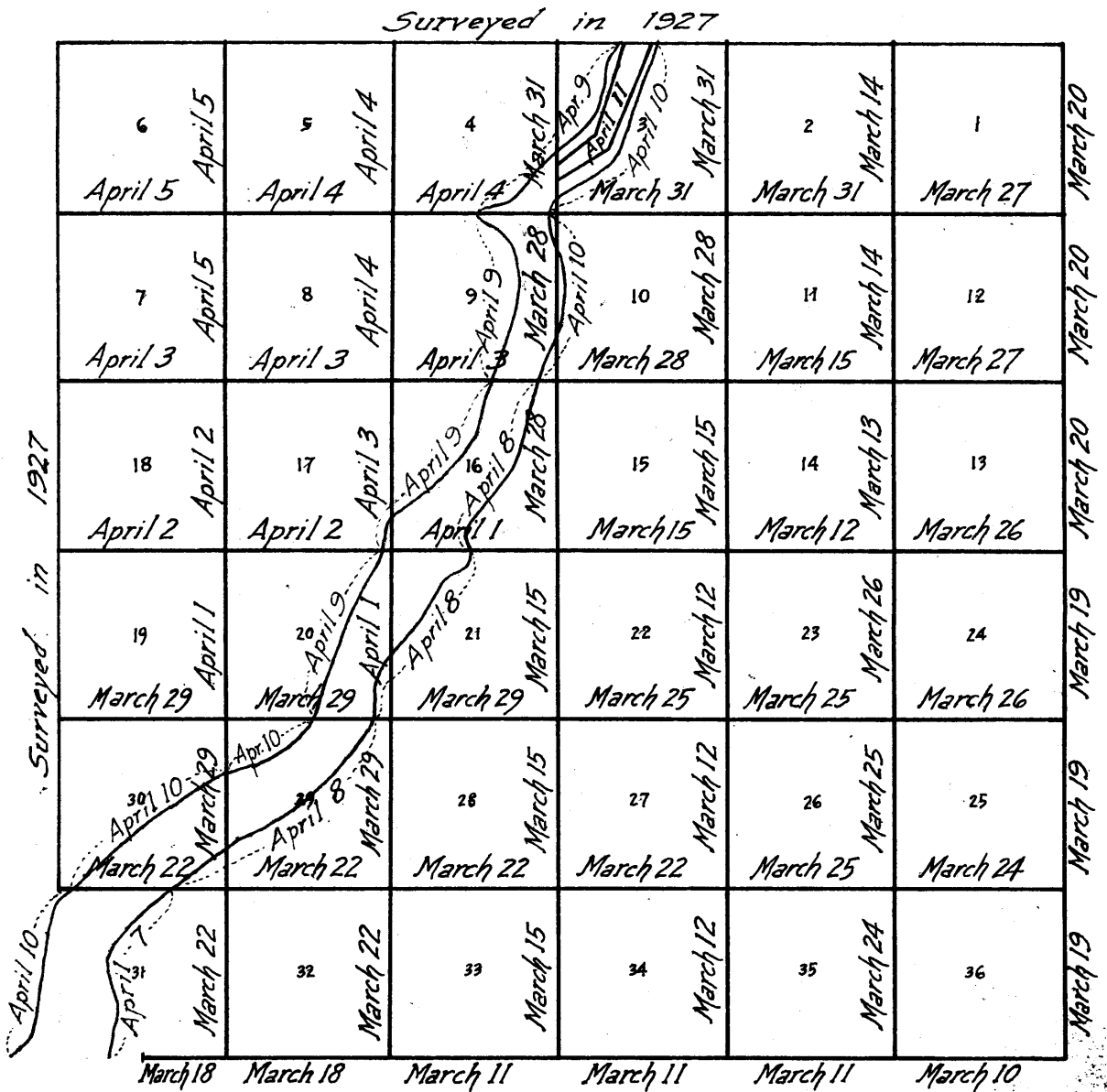
Group 158 Arizona

Township 39 North, Range 7 East

DATE DIAGRAM

1930.

BOOK 3898



— Township bdrs. and Subdivision Lines surveyed by Karl L. Siebecker, U.S. Surveyor, under Group 158, Ariz., on dates (1930) as shown thereon.

— Township boundaries previously surveyed and accepted.

— Traverse of Rims of Marble Canyon, surveyed by Karl L. Siebecker, U.S. Surveyor, under Group 158, Ariz., on dates (1930) as shown thereon.

— Meanders of Banks of Colorado River, surveyed by Karl L. Siebecker, U.S. Surveyor under Group 158, Ariz., on dates (1930) as shown thereon.

The surveys herein described were executed on dates shown on the diagram on page 2 hereof, by Karl L. Siebecker, U.S. Surveyor, using Gurley transit No. 20120. The instrument is equipped with full vertical circle and improved Smith solar attachment; the horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the latitude and declination arcs.

The instrument was examined, tested on the true meridian at 417 Market St., San Francisco, California, found correct, and was approved by the District Cadastral Engineer for Ariz. and Calif., June 14, 1929, conditional upon satisfactory field tests. Unless otherwise specified all azimuth determinations are accomplished with the solar attachment.

All measurements are made with a Lallie 5.00 ch. steel tape, first compared with a Wufkin standard steel tape and found correct. Measurements are made on the slope, the vertical angles determined by clinometer or transit readings and the slope measurements reduced to true horizontal equivalents for entry in the field notes.

Preliminary Field Tests of Transit.

February 27, 1930:

at camp, near the cor. of secs. 3, 4, 33 and 34, T_s. 39 and 40 N., R. 7 E., G. & S. R. Base and Meridian, Arizona, latitude $36^{\circ}48'55''$ N., longitude $111^{\circ}39'20''$ W., at 9h. 3.3m. p.m., l.m.t., observe Polaris at western elongation, making four observations, two each with the telescope in direct and reversed positions, and mark the mean point in the line thus determined, by a tack in a stake driven firmly in the ground 5 chs. N.

Azimuth of Polaris at western elongation = $1^{\circ}19'58''$

February 28, 1930:

lay off the azimuth of Polaris $1^{\circ}20'$ to the east, and mark the meridian thus determined by a tack in a stake driven firmly in the ground 5 chs. N.

At 8h. 0m. a.m., app. t., set off $8^{\circ}2\frac{1}{2}'$ S. on the declination arc, $36^{\circ}49'$ N. on the latitude arc, and determine a meridian with the solar, which agrees within 1' with the true meridian.

At apparent noon, with the lat. arc unchanged, observe the sun on the meridian, and obtain a reading of $7^{\circ}59\frac{1}{2}'$ S. on the declination arc, which agrees with the computed declination of the sun.

At 4h. 0m. p.m., app. t., with the lat. arc unchanged, set off $7^{\circ}55'$ S. on the declination arc and determine a meridian with the solar, which agrees within $1\frac{1}{2}'$ with the true meridian.

As all of the solar observations made during the usual hours of solar work agree within $1\frac{1}{2}'$ with the true meridian, conclude that the adjustments of the transit are satisfactory.

Survey of Part of the South Boundary of Township 39 North, Range 7 East

chains

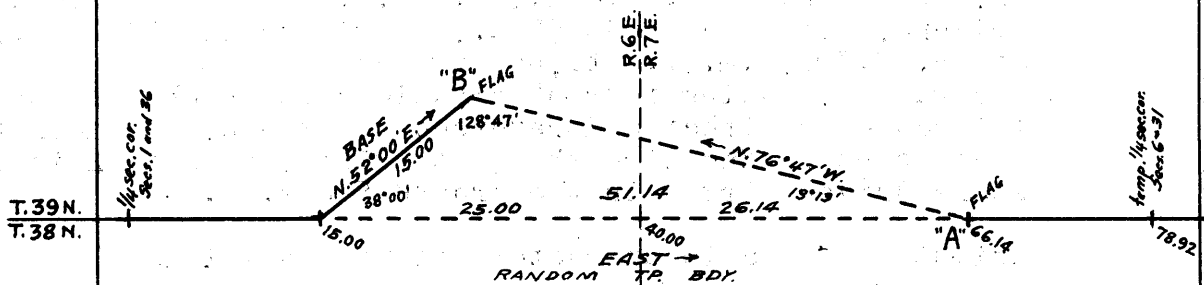
The following notes describe a survey of the east five and one-half miles of the South bdy. of T.39 N., R.7 E.

The SE.cor.of said Tp. is to be established at a point due South from cor.of Ts.39 & 40 N.,Rs.7 & 8 E.,and due East from the 1/4 sec.cor.of secs.1 & 36, Ts.38 & 39 N.,R.6 E., therefore as a preliminary process survey the random East bdy.of T.39 N.,R.7 E. due south 480.00 chs. and set temp. cor.of Ts.38 & 39 N.,Rs.7 & 8 E., then survey the random South bdy.of same Tp. due East as follows:

The 1/4 sec.cor.of secs.1 & 36, Ts.38 & 39 N.,R.6 E., is an iron post, 1 in.in diam.,projecting 30 ins.above ground, firmly set in ground and mound of stone, and properly marked on brass cap. This cor.monument was established in 1926 as the east terminus of the survey of part of the south bdy.of T.39 N.,R.6 E.,leaving the east one-half mile of said Tp.bdy.unsurveyed,owing to the fact that the point for the SE. cor.of the Tp. falls in the Marble Canyon of the Colo.River where it cannot be monumented,and no point within prescribed limits for a witness cor. thereto is available.

Thence, East, on random line, on the east one-half mile of the S. bdy.of T.39 N.,R.6 E., and continuing on the S.bdy.of T.39 N.,R.7 E. to the SE. cor.thereof.

15.00 Intersect the west or right rim of the Marble Canyon of the Colo.River,bearing NE.and SW. Discontinue chaining and triangulate across said canyon as follows:



Set a flag "A" ahead on line at 1.44 chs. east from the east or left rim of the canyon, bearing N.10°E., and S.47°W.
 From 15.00 ch. station on line measure a Base 15.00 chs. N.52°00'E. along the west rim of canyon to point "B" and set flag.
 Flag "B" bears N.76°47'W. from flag "A".
 All bearings checked by direct reading of the solar and all angles checked by deflection.

Chained dist. on random line	= 15.00 chs. E.
Triangulated dist. across canyon	= <u>51.14</u> " E.
Total dist. to flag "A"	= 66.14 chs. E.
Length of E. & S. bdy. sec. 36	= <u>40.00</u> " E.
Dist. Tp. cor. point to flag "A"	= 26.14 chs. E.

40.00 True point for cor. of Ts.38 & 39 N.,Rs.6 & 7 E. in the canyon. Inaccessible, and cannot be monumented or witnessed.

66.14 Triangulation flag "A".
Continue line and measurement by chaining.

78.92 Set temp. 1/4 sec.cor.of secs. 6 and 31
Continue line and measurement, setting temp. sec. and 1/4 sec. cors., alternately, at 40 ch. intervals, and at 518.90 (478.90 chs. E. from point for cor. of Ts.38 & 39 N., Rs.6 & 7 E.) Intersect N. and S. line at 20 lks. S. of the temp. cor. of Ts.38 & 39 N.,Rs.7 & 8 E.
The true course and dist. of the East bdy. of T.39 N., R.7 E. are therefore, North, 480.20 chs.
At point of intersection, set an iron post, 3 ft. long, 3 ins. in diam., 28 ins. in

Survey of Part of the South Boundary of BOOK 6898
Township 39 North, Range 7 East

chains

the ground, for cor. of Ts. 38 and 39 N., Rs. 7 and 8 E., marked on brass cap,

T 39 N	
R 7 E	R 8 E
S 36	S 31
S 1	S 6
T 38 N	
1930	

No bearing trees available.
dig pits, 18x18x12 ins., one each NE., SE., SW. and NW. of post, 3 ft. dist.

Thence,

West, on true line, bet. secs. 1 and 36.

Over open rolling land. Ascend 85 ft. over E. slope to

40.00

Set an iron post, 3 ft. long, 1 in. in diam., 30 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap

S 36
$\frac{1}{4}$
S 1
1930

dig pits, 18x18x12 ins., one each E. and W., 3 ft. dist.

Ascend 25 ft. over E. slope.

53.75

Spur, slopes N. Descend 25 ft. over W. slope.

55.65

Draw, course N. Ascend 25 ft. over E. slope.

59.85

Low spur, slopes N. Descend 15 ft. over W. slope to

66.35

Leave rolling and enter level land.

Thence thru very scattering timber, bears NW. and SE.

80.00

Set an iron post, 3 ft. long, 2 ins. in diam., 30 ins. in the ground, for cor. of secs. 1, 2, 35 and 36, marked on brass cap,

T 39 N	R 7 E
S 35	S 36
S 2	S 1
T 38 N	
1930	

from which

a juniper, 12 ins. in diam., bears N. $28\frac{3}{4}^{\circ}$ E., 40 lks.

dist., marked T 39 N R 7 E S 36 BT

a juniper, 4 ins. in diam., bears S. $5\frac{1}{2}^{\circ}$ E., 76 lks.

dist., marked T 38 N R 7 E S 1 BT

a juniper, 14 ins. in diam., bears S. $52\frac{1}{2}^{\circ}$ W., 292 lks.

dist., marked T 38 N R 7 E S 2 BT

a juniper, 8 ins. in diam., bears N. $33\frac{1}{2}^{\circ}$ W., 273 lks.

dist., marked T 39 N R 7 E S 35 BT

Land, rolling and level. Soil, gravelly, 3rd rate.

Timber, juniper in W. 13.65 chs. None elsewhere.

Undergrowth, none.

West, on true line, bet. secs. 2 and 35.

Over rolling land, thru scattering timber and undergrowth.

Ascend 15 ft. over NE. slope to

22.00

Top of Echo Cliffs, bears NW. and S. Discontinue chaining and triangulate as follows:

Set a flag "A" ahead on Tp. bdy.

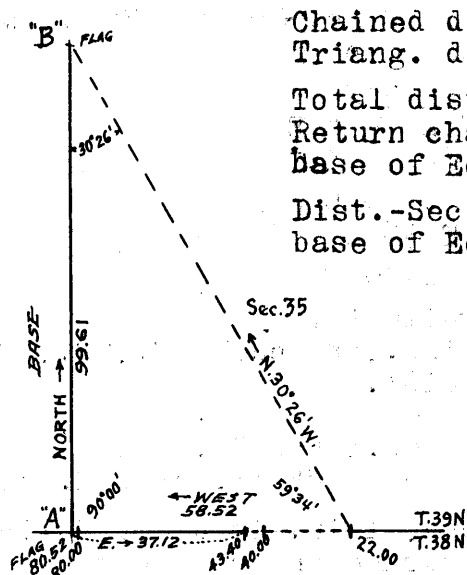
From flag "A" chain a Base North 99.61 chs. to point "B" and set a flag.

Flag "B" bears N. $30^{\circ}26'$ W. from 22.00 ch. station.

All bearings checked by direct reading of the solar and all angles checked by deflection.

Survey of Part of the South Boundary of
Township 39 North, Range 7 East

chains



Chained dist. on Tp. bdy. = 22.00 chs. W.
 Triang. dist. to flag "A" = 58.52 " W.
 Total dist. to flag "A" = 80.52 chs. W.
 Return chaining to
 base of Echo Cliffs = 37.12 chs. E.
 Dist. - Sec. cor. to
 base of Echo Cliffs = 43.40 chs. W.

40.00 True point for $\frac{1}{4}$ sec. cor. falls on face of Echo Cliffs where it is inaccessible and cannot be monumented, therefore establish witness cor. 3.40 chs. W.
 43.40 Base of Echo Cliffs, 845 ft. below top of same. Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground to bedrock, over a cross (X) marked thereon, and raise a mound of stone 3 ft. base, 2 ft. high, around post, for witness cor. to $\frac{1}{4}$ sec. cor., marked on brass cap.

S 35
 $\frac{1}{4}$ WC
 S 2
 1930

from which

mark a cross (X) and BO above cross on face of cliff 1 lk. E. of post.

No bearing trees available.

Continue line and measurement by chaining.

Over open mountainous land. Descend 410 ft. over steep W. slope.

65.80 Canyon, course N. Ascend 110 ft. over E. slope.

72.90 Spur, slopes N. Descend 150 ft. over W. slope to

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 8 ins. in the ground to bedrock, over a cross (X) marked thereon, and raise a mound of stone 5 ft. base, 28 ins. high, around post, for cor. of secs. 2, 3, 34 and 35, marked on brass cap.

T 39 N R 7 E
 S 34 | S 35
 S 3 | S 2
 T 38 N
 1930

Land, rolling and mountainous.

Soil, rocky and gravelly, 4th rate.

Timber, juniper. Undergrowth, sagebrush.

West, on true line, bet. secs. 3 and 34.

Over open, rolling, broken and mountainous land.

Descend 140 ft. over W. slope.

8.00 Gulch, course NW. Ascend 50 ft. over NE. slope.

14.35 Spur, slopes NW. Descend 120 ft.

24.35 Wash, course NW. Ascend 5 ft.

24.80 Low spur, slopes NW. Descend 25 ft.

32.60 Draw, course NW. Ascend 5 ft. to

39.80 Set an iron post, 3 ft. long, 1 in. in diam., 14 ins. in the ground to bedrock, over a cross (X) marked thereon, and raise a mound of stone 4 ft. base, 22 ins. high, around post, for witness cor. to $\frac{1}{4}$ sec. cor., marked on brass cap

Survey of Part of the South Boundary of
Township 39 North, Range 7 East

BOOK 8888

chains

WC $\frac{1}{4}$ $\frac{S\ 34}{S\ 3}$
1930

40.00 True point for $\frac{1}{4}$ sec.cor. falls in a wash, course NW., where it is impracticable to monument the cor., therefore establish witness cor. 20 lks. E. as described. Ascend 5 ft.

65.30 Low spur, slopes N. Descend 60 ft. over W. slope.

68.20 Head of draw, course N. Ascend 45 ft. to

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 12 ins. in the ground to bedrock, over a cross (X) marked thereon, and raise a mound of stone 4 ft. base, 2 ft. high, around post, for cor. of secs. 3, 4, 33 and 34, marked on brass cap

T 39 N R 7 E
S 33 | S 34
S 4 | S 3
T 38 N
1930

Land, rolling, broken and mountainous.

Soil, rocky and sandy, 4th rate.

Timber, none. Undergrowth, greasewood, sagebrush & cacti.

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

Over rolling and broken land, thru scattering undergrowth. Ascend 15 ft. over gradual E. slope.

3.10 Road, bears N. to Marble Canyon Bridge and S. to Flagstaff.

4.00 Descend 40 ft. over W. slope.

8.00 Box canyon, 250 lks. wide, course N. Ascend 186 ft. over NE. slope to

40.00 Set an iron post, 3 ft. long, 1 in. in diam., over a cross (X) marked on surface rock, and raise a mound of stone 5 ft. base, 3 ft. high, around post, for $\frac{1}{4}$ sec. cor., marked on brass cap.

$\frac{1}{4}$ $\frac{S\ 33}{S\ 4}$
1930

Ascend 10 ft.

46.00 Descend 30 ft. over NW. slope.

55.70 Box canyon, 200 lks. wide, course NE. Ascend 50 ft. over SE. slope.

62.70 Spur, slopes NE. Descend 25 ft. over NW. slope.

68.00 Draw, course NE. Ascend 40 ft.

79.20 Low spur, slopes N. Descend 5 ft. over NW. slope to

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 30 ins. in the ground, with a stone marked with a cross (X) deposited at base of post, for cor. of secs. 4, 5, 32 and 33, marked on brass cap

T 39 N R 7 E
S 32 | S 33
S 5 | S 4
T 38 N
1930

Land, rolling and broken.

Soil, rocky and gravelly, 4th rate.

Timber, none.

Undergrowth, greasewood, sagebrush and cacti.

Survey of Part of the South Boundary of
Township 39 North, Range 7 East

chains West, on true line, bet. secs. 5 and 32.
Over rolling and broken land, thru scattering undergrowth.
Descend 15 ft. over NW. slope.

1.70 Head of draw, course NE. Ascend 45 ft.
3.15 Spur, slopes NE. Descend 35 ft.
23.15 Draw, course NE. Ascend 12 ft.
28.00 Descend 16 ft.
31.40 Draw, course N. Ascend 45 ft. over E. slope to
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the
ground to bedrock, deposit a stone marked with a cross
(X) at base of post, and raise a mound of stone 4 ft.
base, 2 1/2 ft. high, around post, for 1/4 sec. cor., marked on
brass cap,

S 32
1/4
S 5
1930

Ascend 65 ft. over E. slope.

44.90 Spur, slopes N. Descend 40 ft.
62.05 Draw, course N. Ascend 23 ft.
65.00 Descend 20 ft.
67.30 Draw, course N. Ascend 20 ft.
77.50 Descend 12 ft. to
80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 6 ins. in the
ground to bedrock, over a cross (X) marked thereon, and
raise a mound of stone 4 ft. base, 2 1/2 ft. high, around
post, for cor. of secs. 5, 6, 31 and 32, marked on brass
cap,

T 39 N R 7 E
S 31 | S 32
S 6 | S 5
T 38 N
1930

Land, rolling and broken.
Soil, rocky and gravelly, 4th rate.
Timber, none. Undergrowth, sagebrush, greasewood & cacti.

West, on true line, bet. secs. 6 and 31 (E. 1/2)

Over rolling and broken land, thru scattering undergrowth.
Descend 27 ft. over W. slope.

1.75 Draw, course N. Ascend 21 ft.
6.00 Descend 30 ft.
13.55 Head of box canyon, course N. Ascend 28 ft.
19.00 Descend 20 ft.
21.95 Draw, course NW. Ascend 15 ft.
29.50 Low spur, slopes NW. Descend 30 ft. over SW. slope to
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the
ground to bedrock, over a cross (X) marked thereon, and
raise a mound of stone 4 ft. base, 2 1/2 ft. high, around post,
for 1/4 sec. cor., marked on brass cap,

S 31
1/4
S 6
1930

Discontinue survey of the Tp. bdy. at this cor. as the
point for the Tp. cor. falls in Marble Canyon where it
cannot be monumented or witnessed.
The east or left rim of Marble Canyon, bearing NE. & SW.
crosses the unsurveyed Tp. bdy. at a point 14.20 chs. W.
from this 1/4 sec. cor.

Land, rolling and broken.
Soil, rocky and gravelly, 4th rate.
Timber, none. Undergrowth, greasewood, sagebrush & cacti.

Survey of the East Boundary of Township 39 North, Range 7 East

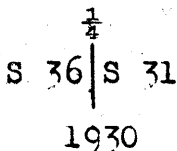
BOOK 3888

chains

From the cor. of Ts. 38 and 39 N., Rs. 7 and 8 E., herein- before described, North, on true line, bet. secs. 31 and 36. Over open rolling land.

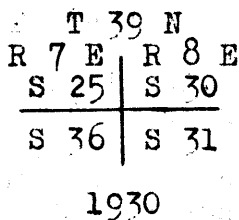
- Ascend 10 ft. over SE. slope to
- 5.00 Thence across flat top of spur, sloping NE.
- 8.00 Leave flat top of spur and descend 20 ft. over NW. slope.
- 13.00 Draw, course NE. Ascend 5 ft.
- 20.00 Spur, slopes NE. Descend 15 ft.
- 27.00 Draw, course NE. Ascend 25 ft. to

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for 1/4 sec. cor. of secs. 31 and 36, marked on brass cap,



dig pits, 18x18x12 ins., one each N. and S. of cor. 3 ft. dist.

- Ascend 15 ft. over SE. slope.
- 55.00 Descend 70 ft. over NE. slope to sec. cor.
- 75.00 Enter scattering timber, bears NE. and SW.
- 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



from which

- a pinon, 36 ins. in diam., bears N. 48 1/4° E., 51 lks. dist., marked T 39 N R 8 E S 30 BT
- a pinon, 10 ins. in diam., bears S. 22 3/4° E., 84 lks. dist., marked T 39 N R 8 E S 31 BT
- a pinon, 24 ins. in diam., bears S. 72 3/4° W., 160 lks. dist., marked T 39 N R 7 E S 36 BT
- a pinon, 8 ins. in diam., bears N. 82 3/4° W., 160 lks. dist., marked T 39 N R 7 E S 25 BT

Land, rolling.
Soil, gravelly and sandy, 4th rate.
Timber, pinon.
Undergrowth, sagebrush, greasewood and grass.

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

- Ascend 40 ft. to
- 20.00 Thence along E. slope to
- 29.25 Descend 165 ft. over NE. slope.
- 37.20 Gulch, course SE. Ascend 150 ft. over cliffs to
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground to bedrock, over a cross (X) marked thereon, and raise a mound of stone 4 ft. base, 2 1/2 ft. high, around post, for 1/4 sec. cor., marked on brass cap

Survey of the East Boundary of
Township 39 North, Range 7 East

chains

$\frac{1}{4}$
 S 25 | S 30

1930

from which

a pinon, 4 ins. in diam., bears S. 86 $\frac{1}{2}$ ° W., 12 lks.
 dist., marked B T only.
 No other bearing tree available.

- Ascend 45 ft. over SW. slope.
- 47.75 Spur, slopes W. Descend 225 ft. to sec. cor.
 Over NW. slope to
- 69.35 Thence over NE. slope to
- 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., over a
 cross (X) marked on surface rock, and raise a mound of
 stone 5 ft. base, 3 ft. high, around post, for cor. of secs.
 19, 24, 25 and 30, marked on brass cap,

T 39 N
 R 7 E | R 8 E
 S 24 | S 19
 S 25 | S 30

1930

from which

a juniper, 12 ins. in diam., bears N. 24 $\frac{1}{2}$ ° E., 43 lks.
 dist., marked T 39 N R 8 E S 19 BT

a pinon, 12 ins. in diam., bears S. 23 $\frac{3}{4}$ ° E., 54 lks.
 dist., marked T 39 N R 8 E S 30 BT

a juniper, 18 ins. in diam., bears S. 58 $\frac{1}{2}$ ° W., 148 lks.
 dist., marked T 39 N R 7 E S 25 BT

a pinon, 14 ins. in diam., bears N. 55 $\frac{1}{2}$ ° W., 73 lks.
 dist., marked T 39 N R 7 E S 24 BT

Land, rolling and mountainous.
 Soil, rocky and sandy, 4th rate.
 Timber, pinon and juniper.
 Undergrowth, blackbrush, sagebrush and greasewood.

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

- Descend 45 ft. over NW. slope.
- 1.00 Arroyo, 15 lks. wide, 10 ft. deep, course NE.
 Ascend 55 ft. over rocky SE. slope.
- 23.00 Spur, slopes NE. Descend 50 ft.
- 35.65 Wash, 15 lks. wide, 3 ft. deep, course NE.
 Ascend 65 ft. over SE. slope to
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the
 ground to bedrock, over a cross (X) marked thereon, and
 raise a mound of stone 4 ft. base, 2 $\frac{1}{2}$ ft. high, around
 post, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$
 S 24 | S 19

1930

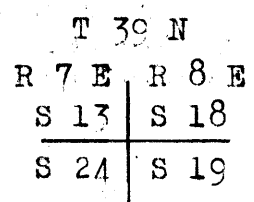
No bearing trees available.

- Ascend 90 ft. over SE. slope.
- 42.00 Spur, slopes NE. Descend 40 ft. over NW. slope.
- 53.80 Wash, course NE. Ascend 70 ft. over SE. slope.
- 59.20 Spur, slopes NE. Descend 45 ft. over NW. slope to

Survey of the East Boundary of Township 39 North, Range 7 East

chains
80.00

Set an iron post, 3 ft. long, 2 ins. in diam., 16 ins. in the ground to bedrock, over a cross (X) marked thereon, and raise a mound of stone 5 ft. base, 20 ins. high, around post, for cor. of secs. 13, 18, 19 and 24, marked on brass cap,



1930

from which
 a pinon, 4 ins. in diam., bears N. 27 $\frac{1}{2}$ ° E., 25 lks.
 dist., marked B T only.
 a pinon, 4 ins. in diam., bears N. 83 $\frac{1}{2}$ ° W., 29 lks.
 dist., marked B T only.
 No other bearing trees available.

Land, mountainous and broken.
 Soil, rocky, 4th rate.
 Timber, pinon and juniper.
 Undergrowth, sagebrush.

 North, on true line, bet. secs. 13 and 18.
 Over mountainous and broken land, thru scattering timber and undergrowth.

5.15
17.60
27.00
37.30

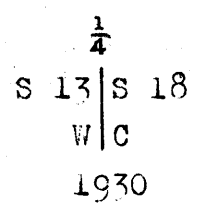
Descend 50 ft. over NW. slope.
 Gulch, course NE. Ascend 35 ft.
 Spur, slopes SE. Thence along broken E. slope.
 Spur, slopes NE. Descend 110 ft. over NW. slope.
 Gulch, course SE. Ascend 10 ft. to

40.00

True point for $\frac{1}{4}$ sec. cor. falls upon steep side of a boulder, where it is impracticable to monument the cor., therefore establish witness cor. 1.70 chs. N.
 Ascend 10 ft. over SW. slope to

41.70

Set an iron post, 3 ft. long, 1 in. in diam., 2 ins. in the ground to bedrock, and raise a mound of stone 5 ft. base, 34 ins. high, around post, for witness cor. to $\frac{1}{4}$ sec. cor., marked on brass cap,



from which
 a pinon, 6 ins. in diam., bears S. 62 $\frac{1}{2}$ ° E., 15 lks.
 dist., marked $\frac{1}{4}$ S 18 WC BT
 a pinon, 6 ins. in diam., bears N. 45° W., 51 lks.
 dist., marked $\frac{1}{4}$ S 13 WC BT

Thence across a broken E. slope, over huge sandstone boulders.

80.00

True point for cor. of secs. 7, 12, 13 and 18 falls on face of a small cliff, where it is impracticable to monument the cor., therefore establish witness cor. 85 lks. North, as hereinafter described.

Land, mountainous and broken.
 Soil, rocky, 4th rate.
 Timber, pinon and juniper.
 Undergrowth, blackbrush, sagebrush and greasewood.

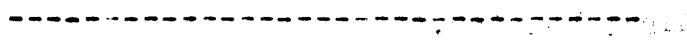
 From the true point for cor. of secs. 7, 12, 13 and 18,

Survey of the East Boundary of
Township 39 North, Range 7 East

- chains North, on true line, bet. secs. 7 and 12.
Over broken and rolling land, thru scattering timber and undergrowth.
Ascend 35 ft. over face of cliff to
- 0.85 Top of cliff. Set an iron post, 3 ft. long, 2 ins. in diam., over a cross (X) marked on surface rock, and raise a mound of stone 5 ft. base, 3 ft. high, around post, for witness cor. to cor. of secs. 7, 12, 13 and 18, marked on brass cap
- | | |
|--------|-------|
| T 39 N | |
| R 7 E | R 8 E |
| S 12 | S 7 |
| S 13 | S 18 |
- WC
1930
- from which
- a pinon, 6 ins. in diam., bears N. 45° W., 13 lks.
dist., marked T 39 N R 7 E S 12 WC BT
No other bearing tree available.
- Descend 75 ft. over E. slope to
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground to bedrock, and raise a mound of stone 4 ft. base, 2 ft. high, around post, for $\frac{1}{4}$ sec. cor., marked on brass cap,
- | | |
|---------------|-----|
| $\frac{1}{4}$ | |
| S 12 | S 7 |
- 1930
- from which
- a pinon, 12 ins. in diam., bears N. 20 $\frac{1}{4}$ ° E., 75 lks.
dist., marked $\frac{1}{4}$ S 7 BT
a pinon, 8 ins. in diam., bears N. 47° W., 9 lks.
dist., marked $\frac{1}{4}$ S 12 BT
- Descend 40 ft. over E. slope.
- 51.30 Descend 125 ft. over NW. slope.
- 58.75 Gulch, course NE. Ascend 200 ft. over SE. slope to
- 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 6 ins. in the ground to bedrock, over a cross (X) marked thereon, and raise a mound of stone 5 ft. base, 2 $\frac{3}{4}$ ft. high, around post, for cor. of secs. 1, 6, 7 and 12, marked on brass cap,
- | | |
|--------|-------|
| T 39 N | |
| R 7 E | R 8 E |
| S 1 | S 6 |
| S 12 | S 7 |
- 1930
- from which
- a pinon, 8 ins. in diam., bears N. 35 $\frac{1}{4}$ ° E., 120 lks.
dist., marked T 39 N R 8 E S 6 BT
a pinon, 10 ins. in diam., bears S. 6 $\frac{1}{2}$ ° E., 302 lks.
dist., marked T 39 N R 8 E S 7 BT
a juniper, 8 ins. in diam., bears N. 18 $\frac{3}{4}$ ° W., 122 lks.
dist., marked T 39 N R 7 E S 1 BT
No other tree available.
- Land, broken and rolling.
Soil, rocky 4th rate.
Timber, pinon and juniper.
Undergrowth, blackbrush and sagebrush.

Survey of the East Boundary of Township 39 North, Range 7 East BOOK 3898

chains	North, on true line, bet. secs. 1 and 6. Over rolling and mountainous land, thru scattering timber and undergrowth. Ascend 65 ft. over SE. slope.
25.00	Spur, slopes E. Descend 90 ft. over N. slope.
31.80	Wash, 10 lks. wide; course E. Ascend 55 ft.
39.00	Spur, slopes E. Descend 13 ft. to
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground, to bedrock, and raise a mound of stone 4 ft. base, 2½ ft. high, around post, for ¼ sec. cor., marked on brass cap, $\frac{1}{4}$ $S \ 1 \ \ S \ 6$ 1930 from which a pinon, 12 ins. in diam., bears S. 8°E., 72 lks. dist., marked ¼ S. 6 BT a pinon, 16 ins. in diam., bears S. 15°W., 42 lks. dist., marked ½ S 1 BT
	Descend 5 ft. over N. slope.
41.60	Wash, 5 lks. wide, course E. Ascend 145 ft. over SE. slope.
69.00	Ridge, bears NE. and SW. Descend 60 ft. over NW. slope to
80.20	Intersect the cor. of Rs. 39 and 40 N., Rs. 7 and 8 E., which is an iron post, 2 ins. in diam., projecting 3 ft. above ground, firmly set in a mound of stone, properly marked on brass cap and witnessed by four pinon bearing trees, one each NE., SE., SW. and NW. of cor. The SW. and NW. trees are marked BT only, but the other trees bear proper Tp., R., and sec. markings.
	Land, rolling, broken and mountainous. Soil, rocky 4th rate. Timber, pinon and juniper. Undergrowth, blackbrush, sagebrush and greasewood.



Survey of the Subdivision Lines of
T. 39 N., R. 7 E.

chains	From the cor. of secs. 1, 2, 35 and 36, on S. Udy. of Tp., hereinbefore described.
	N. 0° 1' W., on true line, bet. secs. 35 and 36.
	Over rolling land, thru very scattering timber and undergrowth. Descend 65 ft. over N. slope.
9.50	Draw, course E. Ascend 40 ft.
20.00	Spur, slopes E. Descend 30 ft. to
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 28 ins. in the ground; for $\frac{1}{4}$ sec. cor., marked on brass cap
	$\begin{array}{c} \frac{1}{4} \\ \hline S\ 35\ \ S\ 36 \end{array}$
	1930
	from which
	a juniper, 24 ins. in diam., bears S. 6° E., 475 lks. dist., marked $\frac{1}{4}$ S 36 BT
	No other tree available.
	dig pits, 18x18x12 ins., one each N. & S., 3 ft. dist.
	Descend 20 ft. over N. slope.
53.00	Head of draw, course E. Ascend 10 ft.
72.10	Spur, slopes E. Descend 15 ft. to
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 12 ins. in the ground to bedrock, and raise a mound of stone 3 ft. base, 2 ft. high, around post, for cor. of secs. 25, 26, 35 and 36, marked on brass cap,
	$\begin{array}{c} T\ 39\ N\ R\ 7\ E \\ \hline S\ 26\ \ S\ 25 \\ \hline S\ 35\ \ S\ 36 \end{array}$
	1930
	from which
	a pinon, 10 ins. in diam., bears N. 76° E., 64 lks. dist., marked T 39 N R 7 E S 25 BT
	a pinon, 10 ins. in diam., bears S. 49 $\frac{3}{4}$ ° E., 80 lks. dist., marked T 39 N R 7 E S 36 BT
	a pinon, 6 ins. in diam., bears S. 55° W., 21 lks. dist., marked T 39 N R 7 E S 35 BT
	a pinon, 5 ins. in diam., bears N. 46 $\frac{3}{4}$ ° W., 58 lks. dist., marked T 39 N R 7 E S 26 BT
	Land, rolling.
	Soil, gravelly and sandy, 4th rate.
	Timber, pinon. Undergrowth, blackbrush and sagebrush.

	East, on random line, bet. secs. 25 and 36.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.02	Run 5 lks. N. of cor. of secs. 25, 30, 31 and 36 on E. bdy. of the Tp., hereinbefore described,
	Thence,
	N. 89° 58' W., on true line, bet. secs. 25 and 36.
	Over rolling land, thru scattering timber & undergrowth.
	Ascend 10 ft. over E. slope.
6.00	Spur, slopes NE. Descend 15 ft. over NW. slope.
15.50	Wash, course NE. Ascend 30 ft. over SE. slope to
40.01	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,
	$\begin{array}{c} S\ 25 \\ \hline \frac{1}{4} \\ \hline S\ 36 \end{array}$
	1930
	No bearing trees available.
	dig pits, 18x18x12 ins., one each E. & W. 3 ft. dist.
	Ascend 75 ft. over SE. slope.
73.90	Flat-topped spur, slopes NE. Descend 15 ft. to
80.02	The cor. of secs. 25, 26, 35 and 36.

Survey of the Subdivision Lines of T.39 N., R.7 E. BOOK 8898

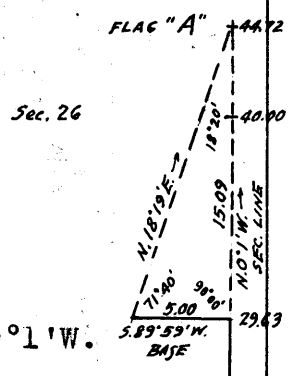
chains

Land, rolling
Soil, gravelly and sandy, 4th rate.
Timber, pinon and juniper.
Undergrowth, sagebrush and blackbrush.

7.40
12.00
29.63

N.0°1'W., on true line, bet. secs. 25 and 26.
Over rolling land, thru scattering timber and undergrowth.
Descend 25 ft. over NW. slope.
Draw, course E. Ascend 40 ft.
Descend 35 ft. to
Top of Echo Cliffs, and S. rim of canyon, course NW.

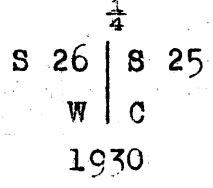
Discontinue chaining and triangulate across the canyon as follows.
Set flag "A" ahead on line at N. rim of canyon.
Chain a base S.89°59'W., 5.00 chs. from 29.63 ch. station.
From west end of base the flag bears N.18°19'E.
All bearings checked by direct reading of the solar, and all angles checked by deflection.



Dist. chained on sec. line = 29.63 chs. N.0°1'W.
Triangulated dist. = 15.09 " "
Dist. - sec. cor. to flag = 44.72 chs. N.0°1'W.

37.50
40.00
44.72
44.90

(Approx.) Bottom of canyon, about 300 ft. deep, course NW.
True point for 1/4 sec. cor. falls on face of cliffs where it is inaccessible and cannot be monumented, therefore establish witness cor. 4.90 chs. N.0°1'W.
Triang. flag "A". N. rim of canyon, and top of Echo Cliffs, bearing NW. and SE.
Continue line and measurement by chaining.
Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground to bedrock, and raise a mound of stone 5 ft. base, 2 1/2 ft. high, around post, for witness cor. to the 1/4 sec. cor., marked on brass cap,

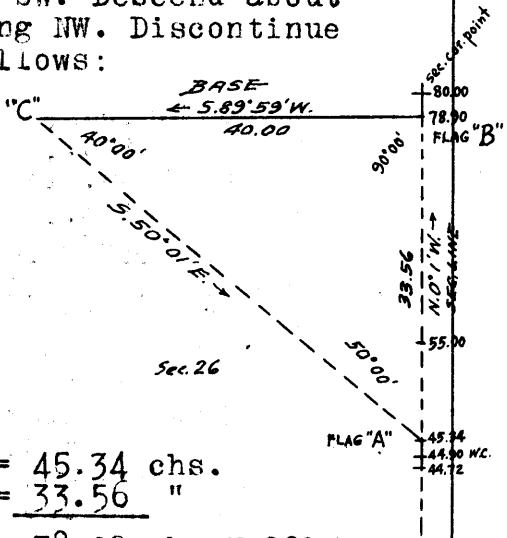


from which
a pinon, 5 ins. in diam., bears S.89 1/2° E., 85 lks. dist., marked 1/4 S 25 WC BT
a pinon, 7 ins. in diam., bears S.33 1/4° W., 126 lks. dist., marked 1/4 S 26 WC BT

45.34

Thence across point of mesa.
Top of Echo Cliffs, bears NE. and SW. Descend about 1000 ft. over said cliffs facing NW. Discontinue chaining and triangulate as follows:

Set a flag "B" ahead on sec. line beyond base of cliffs.
Set flag "A" at 45.34 ch. station on sec. line.
From flag "B" chain a base S.89°59'W., 40 chs. to point "C"
From "C" the flag "A" bears S.50°1'E.



All bearings checked by direct reading of the solar, and all angles checked by deflection.
Dist. on sec. line to flag "A" = 45.34 chs.
Triang. dist. "A" to "B" = 33.56 "
Dist. - sec. cor. to flag "B" = 78.90 chs. N.0°1'W.

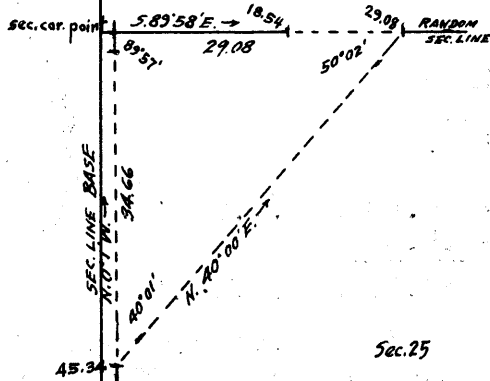
55.00

(Approx) Foot of Echo Cliffs, bears NE. and SW.
Descend about 200 ft. over NW. slope to sec. cor. point.

Survey of the Subdivision Lines of
T.39 N., R.7 E.

chains
78.90 Triang. flag "B". Continue line and measurement by chaining.
80.00 True point for cor. of secs. 23, 24, 25 and 26 falls on a solid rock incline where it is impracticable to monument the cor., therefore establish witness cor. at 15 lks. N.0°1'W. as hereinafter described.
Land, rolling, broken and mountainous.
Soil, rocky and sandy, 4th rate.
Timber, pinon and juniper.
Undergrowth, blackbrush and sagebrush.

18.54 From true point for cor. of secs. 23, 24, 25 and 26, S.89°58'E., on random line, bet. secs. 24 and 25.
Base of Echo Cliffs, bearing NE. and SW. Discontinue chaining and triangulate measurement of random line to top of cliffs as follows:



Set a flag "A" ahead on random line at top of cliffs.
From 45.34 ch. point on sec. line bet. secs. 25 and 26, the flag "A" bears N.40°00'E.
Use as a base the N. 34.66 chs. of the sec. line 25-26.
All bearings checked by direct reading of the solar, and all angles checked by deflection.

29.08 Triang. measurement from sec. cor. point to flag "A" = 29.08 chs.

40.00 Triang. flag point "A". Continue line and measurement by chaining.
40.00 Set temp. 1/4 sec. cor.
80.04 Fall 4 lks. N. of the cor. of secs. 19, 24, 25 and 30 on the E. hdy. of the Tp., hereinbefore described.

Thence, N.89°56'W., on true line, bet. secs. 24 and 25.
Over broken mountainous land, thru scattering timber and undergrowth.
Descend 45 ft. over NW. slope.

3.00 Wash, 5 lks. wide, course NE.
Ascend 385 ft. over steep broken E. slope.
28.60 Spur, slopes NE. Descend 45 ft. over NW. slope.
37.50 Draw, course NE. Ascend 10 ft. over SE. slope to
40.02 Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground to bedrock, and raise a mound of stone 5 ft. base, 2 1/2 ft. high, around post, for 1/4 sec. cor., marked on brass cap,

S 24
1/4
S 25
1930

from which

a juniper, 18 ins. in diam., bears S.80°E., 112 lks. dist., marked 1/4 S 25 BT
a pinon, 14 ins. in diam., bears N.14°W., 102 lks. dist., marked 1/4 S 24 BT

50.96 Ascend 117 ft. over SE. slope to Top of Echo Cliffs, about 1300 ft. high, bearing NE. and SW. Discontinue chaining. Measurement to base of cliffs by triangulation as hereinbefore described. Descent is almost perpendicular for about 600 ft., then breaks into smaller, jagged cliffs.

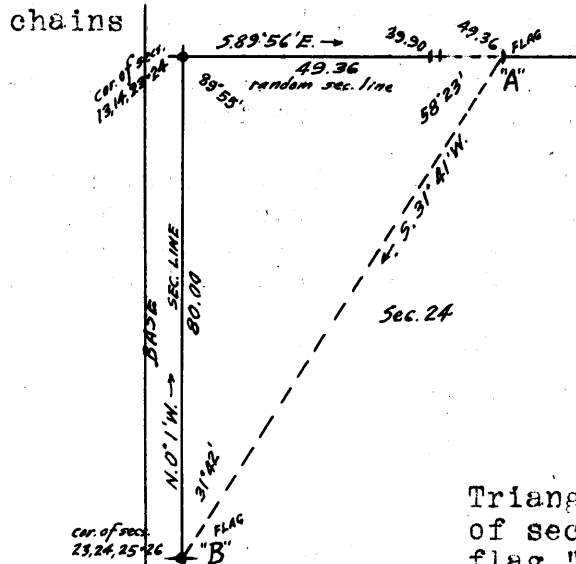
61.50 Base of Echo Cliffs, bears NE. and SW. Continue line and measurement by chaining.
Descend 160 ft. over broken NW. slope to

80.04 True point for cor. of secs. 23, 24, 25 and 26.
Land, broken and mountainous. Soil, rocky, 4th rate.
Timber, pinon & juniper. Undergrowth, blackbrush and sagebrush.

Survey of the Subdivision Lines of
T.39 N., R.7 E.

chains	From true point for cor. of secs.23,24,25 and 26, N.0° 1'W.,on true line, bet. secs.23 and 24. Over broken and mountainous land,strewn with large sand- stone boulders,thru scattering undergrowth. Descend slightly over NW. slope to										
0.15	Set an iron post, 3 ft.long, 2 ins.in diam.,6 ins.in the ground to bedrock,over a cross (X) marked thereon,and raise a mound of stone 5 ft.base,2½ ft.high,around post, for witness cor.to cor.of secs.23,24,25 and 26, marked on brass cap, <div style="text-align: center;"> <table border="1"> <tr><td colspan="2">T 39 N R 7 E</td></tr> <tr><td>S 23</td><td>S 24</td></tr> <tr><td>S 26</td><td>S 25</td></tr> <tr><td colspan="2">W C</td></tr> <tr><td colspan="2">1930</td></tr> </table> </div>	T 39 N R 7 E		S 23	S 24	S 26	S 25	W C		1930	
T 39 N R 7 E											
S 23	S 24										
S 26	S 25										
W C											
1930											
	from which a sandstone boulder,exposed 6x5x10 ft.above ground, bears East, 1 lk. dist., marked X B0 No bearing trees available. Descend 55 ft.over NW. and W. slopes.										
15.00	Draw, course W. Ascend 95 ft.over SW. slope.										
28.00	Spur, slopes W. Descend 46 ft. over NW. slope to										
40.00	Set an iron post, 3 ft.long, 1 in.in diam.,6 ins.in the ground to bedrock,over a cross (X) marked thereon,and raise a mound of stone around post,5 ft.base,2½ ft. high, for ¼ sec.cor., marked on brass cap <div style="text-align: center;"> <table border="1"> <tr><td colspan="2">+</td></tr> <tr><td>S 23</td><td>S 24</td></tr> <tr><td colspan="2">1930</td></tr> </table> </div>	+		S 23	S 24	1930					
+											
S 23	S 24										
1930											
	from which a sandstone boulder,exposed 3x4x3 ft.above ground, bears West,3 lks.dist., marked X B0 No bearing trees available. Descend 150 ft.over broken N. slope.										
64.00	Wash, 50 lks.wide,course NW. Water in holes. Descend 20 ft. over NW. slope.										
70.25	Road, bears NE. to water tank, and SW. to highway.										
70.50	Wash, 10 lks.wide,course SW. Ascend 57 ft.over SW.slope to sec. cor.										
70.65	Navajo Spring water tank bears E. 3.48 chs. dist.										
78.00	Head of draw, course SW.										
80.00	Set an iron post, 3 ft.long, 2 ins.in diam., 10 ins.in the ground to bedrock,over a cross (X) marked thereon,and raise a mound of stone 5 ft.base,26 ins.high,around post; for cor.of secs.13,14,23 and 24, marked on brass cap, <div style="text-align: center;"> <table border="1"> <tr><td colspan="2">T 39 N R 7 E</td></tr> <tr><td>S 14</td><td>S 13</td></tr> <tr><td>S 23</td><td>S 24</td></tr> <tr><td colspan="2">1930</td></tr> </table> </div>	T 39 N R 7 E		S 14	S 13	S 23	S 24	1930			
T 39 N R 7 E											
S 14	S 13										
S 23	S 24										
1930											
	No bearing trees available. Land, broken and mountainous. Soil, rocky and sandy, 4th rate. Timber, none. Undergrowth, sagebrush and greasewood.										
39.90	S.89°56'E.,on random line, bet.secs.13 and 24. Base of Echo Cliffs,bears N. and S. Set temp. witness cor.to ¼ sec.cor.,and discontinue chaining. Triangulate measurement of random line to top of Echo Cliffs as follows:										

Survey of the Subdivision Lines of
T.39 N., R.7 E.



Set a flag "A" ahead on random line at top of Echo Cliffs. Set a flag "B" on the true point for cor. of secs. 23, 24, 25 and 26. From flag "A" the flag "B" bears S. 31° 41' W. Vertical angle from flag "A" to cor. of secs. 13, 14, 23 and 24 is -23°. All bearings checked by direct reading of the solar, and all angles checked by deflection.

Triang. measurement from cor. of secs. 13, 14, 23 & 24 to flag "A" on random line = 49.36 chs.

- 49.36 Triang. flag "A" at top of Echo Cliffs, bearing N. & S. Continue line and measurement by chaining.
- 80.10 Fall 2 lks. N. of the cor. of secs. 13, 18, 19 and 24, on the E. bdy. of the Tp., hereinbefore described, Thence, N. 89° 55' W., on true line, bet. secs. 13 and 24. Over mountainous land, thru scattering timber and undergrowth. Descend 35 ft. over NW. slope.
- 3.10 Gulch, course NE. Ascend 285 ft. to
- 30.74 Top of Echo Cliffs, bears N. and S. Discontinue chaining and triangulate measurement to base of cliffs as hereinbefore described. Descend about 750 ft. over face of cliffs to W.C. to 1/4 sec. cor.
- 40.05 True point for 1/4 sec. cor. falls on face of cliff where it is impracticable to monument the cor., therefore establish witness cor. 15 lks. N. 89° 55' W.
- 40:20 Base of Echo Cliffs, bears N. and S. Set an iron post, 3 ft. long, 1 in. in diam., 8 ins. in the ground to bedrock, over a cross (X) marked thereon, and raise a mound of stone 5 ft. base, 28 ins. high, around post, for witness cor. to 1/4 sec. cor., marked on brass cap

S 13
1/4 ——— WC
S 24
1930

from which

mark a cross (X) and BO above cross, on face of cliff S. 82 1/2° E., 7 1/2 lks. dist.

- 52.20 Descend 660 ft. to head of draw. Over W. slope to Rocky point. Thence along top of spur.
- 66.00 Thence over SW. slope.
- 76.50 Head of draw, course SW. Ascend 30 ft. over SE. slope to
- 80.10 The cor. of secs. 13, 14, 23 and 24.

Land, mountainous.
Soil, rocky, 4th rate.
Timber, pinon.
Undergrowth, blackbrush, sagebrush and greasewood.

- N. 0° 1' W., on true line, bet. secs. 13 and 14. Over rolling land, thru scattering undergrowth. Ascend 15 ft. over SE. slope.
- 0.65 Top of knoll. Descend 55 ft. over N. slope.
- 19.50 Wash, 20 lks. wide, course NW. Ascend 50 ft. over S. slope to
- 40.00 Spur, slopes W. Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground to bedrock, over a cross (X) marked thereon, and raise a mound of stone 4 ft. base, 2 ft. high, around post, for 1/4 sec. cor., marked on brass cap.

Survey of the Subdivision Lines of BOOK 3898
T. 39. N., R. 7. E.

chains

1/4
S 14 | S 13
1930

- 71.30 Descend 120 ft. over N. slope to Wash, 30 lks. wide, 15 ft. deep, course NW. Descend 23 ft. over NW. slope.
- 75.30 Wash, 30 lks. wide, 10 ft. deep, course NW. Continue gradual descent over NW. slope to
- 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 28 ins. in the ground, for cor. of secs. 11, 12, 13 and 14, marked on brass cap,

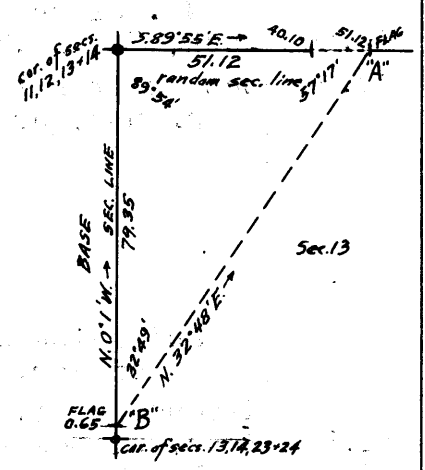
T 39 N R 7 E
S 11 | S 12
S 14 | S 13
1930

and raise a mound of stone, 4 ft. base, 3 ft. high, W. of cor.

Land, rolling.
Soil, rocky and sandy, 4th rate.
Timber, none.
Undergrowth, blackbrush and sagebrush.

- 40.00 S. 89°55'E., on random line, bet. secs. 12 and 13. Point for temp. 1/4 sec. cor. falls on face of cliff.
- 40.10 On narrow ledge at base of Echo Cliffs, bearing NE. and SW. Set temp. witness cor. to 1/4 sec. cor. and discontinue chaining. Triangulate measurement to point on random line at top of Echo Cliffs as follows:

Set a flag "A" ahead on random sec. line at top of cliffs.
Set a flag "B" on sec. line bet. secs. 13 and 14, on top of knoll at 0.65 ch. station thereof.
From flag "B" the flag "A" bears N. 32°48'E.
The sec. line base is 79.35 chs. N. 0°1'W.
All bearings checked by direct reading of the solar, and all angles checked by deflection.
Vertical angle from flag "A" to the cor. of secs. 11, 12, 13 and 14 is -24°



- 51.12 Triang. dist. on random line = 51.12 chs. Flag "A" at top of Echo Cliffs. Continue line and measurement by chaining.
- 80.06 Fall 7 lks. N. of true point for cor. of secs. 7, 12, 13 and 18, on E. bdy. of the Tp., hereinbefore described, Thence, N. 89°52'W., on true line, bet. secs. 12 and 13. Over mountainous land, thru very scattering timber and undergrowth. Ascend 400 ft. over sandstone cliffs facing E.
- 12.30 Top of cliffs, bearing NW. and SE., and spur, sloping SE. Descend 110 ft. over SW. slope.
- 16.50 Draw, course SE. Ascend 135 ft. over SE. slope to
- 28.94 Top of Echo Cliffs, bearing NE. and SW., facing NW. Discontinue chaining and triangulate to wit. cor. to 1/4 sec. cor. at base of cliffs, as hereinbefore described.
- 39.96 Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground to bedrock, over a cross (X) marked thereon, and raise a mound of stone 5 ft. base, 2 1/2 ft. high, around post, for witness cor. to 1/4 sec. cor., marked on brass cap,

Survey of the Subdivision Lines of
T. 39. N., R. 7. E.

chains

S 12
WC $\frac{1}{4}$ ———
S 13
1930

from which

mark a cross (X) on face of cliff East 1 lk. dist.,
and B0 above the cross.

This wit. cor. is on a narrow ledge bearing NE. and
SW. at base of Echo Cliffs, about 800 ft. below the
28.94 ch. station on sec. line.

Continue line and measurement by chaining.

40.03 True point for $\frac{1}{4}$ sec. cor. falls on NW. face of a cliff
where it cannot be monumented, therefore establish
witness cor. 7 lks. S. $89^{\circ}52'E.$, as described.

45.60 Descend 195 ft. over N. slope broken by sandstone cliffs.

53.00 Rocky spur, slopes NW. Descend 220 ft. over SW. slope.

56.80 Gulch, course NW. Ascend 40 ft. over NE. slope.

60.00 Short rocky spur, slopes N. Descend 145 ft. over NW. slope.

69.00 Wash, 50 lks. wide, course NW. Ascend 20 ft. over NE. slope.

71.30 Descend 33 ft. over NW. slope to

80.06 The cor. of secs. 11, 12, 13 and 14.

Land, broken and mountainous.

Soil, rocky and sandy, 4th rate.

Timber, pinon.

Undergrowth, sagebrush, blackbrush and greasewood.

N. $0^{\circ} 1'W.$, on true line, bet. secs. 11 and 12.

Over mountainous land, thru scattering undergrowth.

Descend 20 ft. over NW. slope.

3.50 Wash, 50 lks. wide, course NW. Descend 25 ft. over NW.
slope to

11.00 Wash, 50 lks. wide, course NW. Descend 80 ft. over
NW. slope to

39.60 Wash, 50 lks. wide, course NW. Ascend 11 ft. to

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 30 ins. in the
ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$
S 11 | S 12
1930

and raise a mound of stone, 5 ft. base, 3 ft. high, W.
of cor.

Ascend 20 ft. over SW. slope.

51.50 Spur, slopes NW. Descend 75 ft. over NE. slope.

67.50 Wash, 100 lks. wide, course NW. Ascend 225 ft. over broken
slopes to sec. cor.

75.00 Thence along edge of cliff, bearing N. and SE., 75 ft.
high, facing W.

78.50 Leave edge of cliff, bearing NW. and S. Thence over bench.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., over a cross
(X) marked on surface rock, and raise a mound of stone
5 ft. base, 3 ft. high, around post, for cor. of secs.
1, 2, 11 and 12, marked on brass cap,

T 39 N R 7 E
S 2 | S 1
S 11 | S 12
1930

Land, mountainous and broken.

Soil, rocky and sandy, 4th rate.

Timber, none.

Undergrowth, blackbrush, sagebrush and greasewood.

Survey of the Subdivision Lines of
T. 39 N., R. 7 E.

chains	Descend 100 ft. over NW. slope.
43.50	Gulch, course NE. Ascend 115 ft. over E. slope.
47.30	Spur, slopes N. Descend 130 ft. over W. slope.
52.35	Gulch, course N. Ascend 80 ft. over E. slope.
56.00	Spur, slopes N. Descend 25 ft. over W. slope.
58.00	Wash, 20 lks.wide, course N. Ascend 52 ft. over E. slope to
63.37	Base of cliffs, facing E. Discontinue chaining on sec. line. Measurement to sec.cor. by offset hereinbefore described. Ascend about 350 ft. over cliffs to
80.06	The cor.of secs.1,2,11 and 12, on small bench or ledge in cliffs.
	Land, mountainous and broken. Soil, rocky, 4th rate. Timber, pinon in E.half; none elsewhere. Undergrowth, blackbrush and sagebrush.

	N.0° 1'W., on random line, bet. secs.1 and 2. Measurement of 14.84 chs.by offset hereinbefore described.
14.84	Stake on offset line. Continue line and measurement by chaining.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
79.94	Fall 2 lks. W. of cor.of secs.1,2,35 and 36 on the N. bdy.of the Tp., which is an iron post, 2 ins.in diam., projecting 10 ins.above ground, firmly set, properly marked on brass cap, and witnessed by a mound of stone W. of cor. No.bearing trees.
	Thence, South, on true line, bet. secs. 1 and 2. Over rolling land, thru scattering undergrowth. Descend 8 ft. to
2.56	Draw, course W. Ascend 45 ft. over NW. slope to
24.30	Wash, 200 lks.wide, course NW. Ascend 25 ft. over NW. slope.
36.00	Descend 10 ft. over S. slope.
37.30	Wash, 10 lks.wide, course W. Ascend 20 ft. to
39.94	Set an iron post, 3 ft.long, 1 in.in diam., 7 ins.in the ground to bedrock, deposit a stone marked with a cross (X) at base of post, and raise a mound of stone 5 ft.base, 29 ins.high, around post, for $\frac{1}{4}$ sec.cor., marked on brass cap,
	$\frac{1}{4}$ S 2 S 1 1930
	Ascend 16 ft. over NW. slope
42.00	Descend 17 ft. over SW. slope.
47.00	Wash, course NW. Ascend 35 ft. over NW. slope.
56.70	Descend 10 ft. over SW. slope.
59.05	Wash, course W. Ascend 35 ft. over NW. slope to
65.10	Base of cliffs, bearing E. and W. Enter mountainous land. Discontinue chaining. Measurement to sec. cor.by offset as hereinbefore described.
	Ascend about 350 ft. over N. face of cliffs to
78.00	(Approx.) Top of cliffs, bearing E. and W. thence across small bench or ledge.
79.94	The cor.of secs.1,2,11 and 12.
	Land, rolling, broken and mountainous. Soil, gravelly and rocky, 4th rate. Timber, none. Undergrowth, sagebrush and greasewood.

	From the cor.of secs.2,3,34 and 35, on the S. bdy. of the Tp., hereinbefore described, N.0° 1'W., on true line, bet. secs.34 and 35. Over mountainous land, thru scattering undergrowth. Descend 90 ft. over NW. slope.

Survey of the Subdivision Lines of
T.39 N., R.7 E.

BOOK 3898

chains

- 7.25 Wash, course NE. Ascend 15 ft.
- 7.90 Spur, slopes E. Descend 105 ft.
- 14.20 Gulch, course NW. Ascend 75 ft. to
- 17.50 Thence along a broken W. slope.
- 27.50 Descend 170 ft. over broken N. slope to
- 39.45 Set an iron post, 3 ft. long, 1 in. in diam., 28 ins. in the ground, for witness cor. to $\frac{1}{4}$ sec. cor., marked on brass cap

WC
 $\frac{1}{4}$
 S34 | S35
 1930

- 40.00 from which mark a cross (X) and 80 above cross, on a boulder 7x6x4 ft. above ground, north 2 lks. dist. True point for $\frac{1}{4}$ sec. cor. falls on side of boulder where it is impracticable to monument the cor., therefore establish witness cor. 55 lks. S.0°1'E., as described.

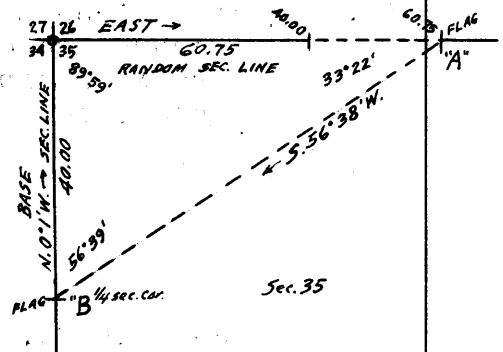
- 41.25 Descend 45 ft. over rock bluff, bearing NW. and SE. Wash, course NW. Ascend 55 ft.
- 55.50 Spur, slopes SW. Descend 50 ft.
- 56.70 Gulch, course NW. Ascend 15 ft.
- 61.30 Spur, slopes W. Descend 55 ft.
- 73.10 Wash, course NW. Ascend 15 ft.
- 77.00 Spur, slopes SW. Descend 30 ft. to
- 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 8 ins. in the ground to bedrock, over a cross (X) marked thereon and raise a mound of stone 5 ft. base, 28 ins. high, around post, for cor. of secs. 26, 27, 34 and 35, marked on brass cap.

T 39 N R 7 E
 S 27 | S 26
 S 34 | S 35
 1930

Land, mountainous.
 Soil, rocky, 4th rate.
 Timber, none.
 Undergrowth, sagebrush and greasewood.

- 40.00 East, on random line, bet. secs. 26 and 35. Base of Echo Cliffs, bears NE. and SW. Set temp. $\frac{1}{4}$ sec. cor. precipitous ascent over cliffs prevents continuation of chaining, therefore triangulate measurement of the random line to top of cliffs as follows:

Set flag "A" ahead on random line at top of cliffs.
 Set flag "B" on the $\frac{1}{4}$ sec. cor. of secs. 34 and 35.
 Vertical angle from flag "A" to cor. of secs. 26, 27, 34 and 35 is -21°
 From flag "A" the flag "B" bears S. 56° 38' W.
 Use the N. half of sec. line bet. secs. 34 and 35 as a base.
 All bearings checked by direct reading of the solar, and all angles checked by deflection.



- 60.75 Triang. dist. on random line to flag "A" = 60.75 chs. E. Triang. flag "A". Continue line and measurement by chaining.
- 80.06 Fall 5 lks. S. of cor. of secs. 25, 26, 35 and 36.

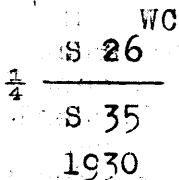
Survey of the Subdivision Lines of T.39 N., R.7 E.

chains

Thence, S. 89° 58' W., on true line, bet. secs. 26 and 35. Over mountainous land, thru very scattering timber and undergrowth.

19.31 Ascend 200 ft. over E. slope to Top of Echo Cliffs, bears NE. and SW. Discontinue chaining and triangulate measurement to base of cliffs as hereinbefore described. Leave timber.

40.03 Descend about 1400 ft. to Base of Echo Cliffs, bears NE. and SW., and true point for 1/4 sec. cor. This point falls on the side of a boulder where it is impracticable to monument the cor., also no suitable point on line is available within prescribed limits for a witness cor., therefore at a point 17 lks. S. 38° W., establish witness cor. as follows: Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground to bedrock, over a cross (X) marked thereon, and raise a mound of stone 4 ft. base, 2 ft. high, around post, for witness cor. to 1/4 sec. cor., marked on brass cap,



from which mark a cross (X) and B0 above cross, on face of cliff E. 2 lks. dist.

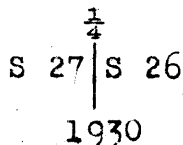
55.80 Descend 234 ft. over rough broken W. slope. Gulch, course NW. Ascend 65 ft. over NE. slope. 60.50 Spur, slopes NW. Descend 240 ft. over W. slope to 80.06 The cor. of secs. 26, 27, 34 and 35.

Land, mountainous and broken. Soil, rocky, 4th rate. Timber, pinon in E. 1/2 only, none in W. 1/2. Undergrowth, sagebrush, greasewood and blackbrush.

N. 0° 1' W., on true line, bet. secs. 26 and 27. Over broken and rolling land, thru scattering undergrowth. Descend 23 ft. over W. slope.

4.90 Ascend 14 ft. 6.68 Descend 35 ft. over N. slope 8.85 Gulch, course W. Ascend 57 ft. over S. slope. 14.38 Ascend gradually over SW. slope. 19.61 Spur, slopes W. Enter mountainous land, Descend 150 ft. over N. slope. 35.00 Wash, 25 lks. wide, course W. Ascend 20 ft. Enter rolling land.

38.00 Descend 10 ft. 39.85 Wash, 10 lks. wide, course NW. Ascend slightly to 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 4 ins. in the ground to bedrock, over a cross (X) marked thereon, and raise a mound of stone 5 ft. base, 32 ins. high, around post, for 1/4 sec. cor., marked on brass cap,



Ascend 15 ft. over SW. slope. 44.00 Descend 25 ft. 45.10 Wash, 50 lks. wide, course SW. Ascend 35 ft. 50:00 Descend 20 ft. 52.90 Wash, 30 lks. wide, course SW. Ascend 20 ft. 56.50 Descend 75 ft. over NW. slope. 71.30 Wash, 100 lks. wide, course NW. Ascend 30 ft. 75.40 Descend 67 ft. 79.50 Wash, 30 lks. wide, course W. Ascend 10 ft. to

Survey of the Subdivision Lines of BOOK 3898
T. 39 N., R. 7 E.

chains				
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 18 ins. in the ground to bedrock, over a cross (X) marked thereon, and raise a mound of stone 4 ft. base, 1½ ft. high, around post, for cor. of secs. 22, 23, 26 and 27, marked on brass cap.			
	<table border="1"> <tr><td>T 39 N R 7 E</td></tr> <tr><td>S 22 S 23</td></tr> <tr><td>S 27 S 26</td></tr> </table> <p>1930</p>	T 39 N R 7 E	S 22 S 23	S 27 S 26
T 39 N R 7 E				
S 22 S 23				
S 27 S 26				
	Land, broken and rolling. Soil, rocky and sandy, 4th rate. Timber, none. Undergrowth, sagebrush, blackbrush and greasewood.			

	N. 89° 58' E., on random line, bet. secs. 23 and 26.			
40.00	Set temp. ¼ sec. cor.			
80.02	Fall 5 lks. N. of true point for cor. of secs. 23, 24, 25 and 26, Thence West, on true line, bet. secs. 23 and 26. Over broken and mountainous land, thru scattering undergrowth. Descend 33 ft. over NW. slope.			
6.80	Gulch, course NW. Ascend 37 ft. over NE. slope.			
13.85	Spur, slopes N. Descend 30 ft. over NW. slope.			
18.55	Wash, 10 lks. wide, course SW. Ascend 20 ft. over SE. slope.			
22.00	Descend 203 ft. over SW. slope.			
30.60	Gulch, course NW. Ascend 15 ft. over NE. slope.			
33.70	Short spur, slopes N. Descend 42 ft. over NW. slope to			
40.01	Set an iron post, 3 ft. long, 1 in. in diam., over a cross (X) marked on surface rock, and raise a mound of stone 5 ft. base, 3 ft. high, around post, for ¼ sec. cor., marked on brass cap.			
	<table border="1"> <tr><td>S 23</td></tr> <tr><td>¼</td></tr> <tr><td>S 26</td></tr> </table> <p>1930</p>	S 23	¼	S 26
S 23				
¼				
S 26				
	Ascend 28 ft. over NE. slope.			
43.75	Low spur, slopes NW. Descend 184 ft. over W. slope.			
55.90	Gulch, course N. Ascend 17 ft. over NE. slope.			
60.90	Low spur, slopes NW. Descend 105 ft. over W. slope.			
75.50	Wash, 20 lks. wide, course NW. Descend gradually over NW. slope to			
80.02	The cor. of secs. 22, 23, 26 and 27.			
	Land, broken and mountainous. Soil, rocky and sandy, 4th rate. Timber, none. Undergrowth, sagebrush, blackbrush and greasewood.			

	N. 0° 1' W., on true line, bet. secs. 22 and 23. Over rolling land, thru scattering undergrowth. Descend gradually over NW. slope.			
6.20	Ascend slightly over SW. slope.			
11.20	Low spur, slopes W. Descend 15 ft. over N. slope.			
19.00	Wash, 30 lks. wide, course W. Ascend 20 ft. over S. slope to ¼ sec. cor.			
20.60	Road, bears NE. to Navajo Springs and SW. to highway.			
40.00	Spur, slopes W: Set an iron post, 3 ft. long, 1 in. in diam., 30 ins. in the ground, for ¼ sec. cor., marked on brass cap			

Survey of the Subdivision Lines of
T.39 N.,R.7 E.

chains

$\frac{1}{4}$
S 22 | S 23
1930

and raise mound of stone, 4 ft. base, 2 ft. high, W. of cor.

Descend 10 ft. over N. slope.

43.00 Wash, 20 lks. wide, course W. Thence over W. slope.

58.20 Wash, 30 lks. wide, course W.

71.60 Road, bears NE. to Canyon Bridge and SW. to highway.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 30 ins. in the ground, for cor. of secs. 14, 15, 22 and 23, marked on brass cap.

T 39 N R 7 E
S 15 | S 14
S 22 | S 23
1930

and raise mound of stone, 4 ft. base, 2 ft. high, W. of cor.

Land, rolling.

Soil, rocky and sandy, 4th rate.

Timber, none.

Undergrowth, sagebrush and greasewood.

East, on random line, bet. secs. 14 and 23.

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

79.96 Intersect the cor. of secs. 13, 14, 23 and 24.

Thence,

West, on true line, bet. secs. 14 and 23.

Over rolling land, thru scattering undergrowth.

Ascend 12 ft. over SE. slope.

0.47 Descend 109 ft. over SW. slope.

8.00 Descend 100 ft. over NW. slope to $\frac{1}{4}$ sec. cor.

27.77 Road, bears NW. to highway and SE. to Navajo Springs.

39.98 Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the ground to bedrock, deposite a stone marked with a cross (X) at base of post, and raise a mound of stone 3 ft. base, 16 ins. high, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$ S 14
S 23
1930

Descend 85 ft. over NW. slope to sec. cor.

69.70 Road, bears NE. to Canyon Bridge, and SW. to Flagstaff.

79.96 The cor. of secs. 14, 15, 22 and 23.

Land, rolling.

Soil, rocky and sandy, 4th rate.

Timber, none.

Undergrowth, sagebrush and greasewood.

N. 0° 1' W., on true line, bet. secs. 14 and 15.

Over rolling land, thru scattering undergrowth.

Descend 47 ft. over NW. slope to

28.00 Descend 20 ft. over NE. slope to

37.00 Descend gradually over NW. slope to

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 30 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap.

$\frac{1}{4}$
S 15 | S 14
1930

Survey of the Subdivision Lines of BOOK 3898
T.39 N.,R.7 E.

chains and raise mound of stone, 3 ft. base, 2 ft. high, W. of cor.
 Descend slightly over NW. slope.
 45.00 Ascend 6 ft. over SW. slope.
 55.00 Descend 25 ft. over NW. slope to
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 30 ins. in
 the ground, for cor. of secs. 10, 11, 14 and 15, marked
 on brass cap

T 39 N R 7 E	
S 10	S 11
S 15	S 14

1930

and raise mound of stone, 3 ft. base, 2 ft. high, W. of cor.
 Land, rolling.
 Soil, rocky and sandy, 4th rate.
 Timber, none.
 Undergrowth, sagebrush and greasewood.

East, on random line, bet. secs. 11 and 14.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.92 Fall 5 lks. S. of cor. of secs. 11, 12, 13 and 14,
 Thence
 S. $89^{\circ}58'$ W., on true line, bet. secs. 11 and 14.
 Over broken and rolling land, thru scattering undergrowth.
 Descend 62 ft. over NW. slope.
 25.00 Wash, 20 lks. wide, course NW.
 Ascend 30 ft. over NE. slope to $\frac{1}{4}$ sec. cor.
 35.00 Road, bears NE. to Canyon Bridge, and SW. to Flagstaff.
 39.96 Set an iron post, 3 ft. long, 1 in. in diam., 30 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,

S 11
$\frac{1}{4}$
S 14

1930

and raise mound of stone, 4 ft. base, 2 ft. high, N. of cor.
 79.92 Descend 65 ft. over NW. slope to
 The cor. of secs. 10, 11, 14 and 15.

Land, broken and rolling.
 Soil, rocky and sandy, 4th rate.
 Timber, none.
 Undergrowth, sagebrush, blackbrush and greasewood.

N. $0^{\circ}1'$ W., on true line, bet. secs. 10 and 11.
 Over rolling land, thru scattering undergrowth.
 Descend 52 ft. over NW. slope to
 11.67 Enter mountainous land, Descend 70 ft. over NE. slope.
 14.30 Canyon, course NW. Ascend 55 ft. over SW. slope.
 16.67 Descend 46 ft. over W. slope.
 22.93 Ascend 56 ft. over SW. slope.
 25.21 Descend gradually over W. slope.
 30.20 Ascend 15 ft. over SW. slope.
 31.60 Spur, slopes NW. Enter rolling land.
 Descend 38 ft. over N. slope.
 36.50 Gulch, course W. Ascend 20 ft. over S. slope.
 39.20 Thence over NW. slope.
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the
 ground to bedrock, over a cross (X) marked thereon,
 and raise a mound of stone, 4 ft. base, $1\frac{1}{2}$ ft. high,
 around post, for $\frac{1}{4}$ sec. cor., marked on brass cap.

Survey of the Subdivision Lines of
T. 39 N., R. 7 E.

chains

$\frac{1}{4}$
 S 10 | S 11
 1930

- 49.00 Descend 30 ft. over NW. slope.
Wash, 10 lks. wide, course NW. Descend 35 ft. over NW. slope to
- 67.50 Wash, course NW. Ascend 29 ft. over SW. slope.
- 70.80 Spur, slopes NW. Descend 15 ft. over N. slope to sec. cor. point.
- 79.90 Set an iron post, 3 ft. long, 2 ins. in diam., 14 ins. in the ground to bedrock, over a cross (X) marked thereon, and raise a mound of stone 4 ft. base, 22 ins. high, around post, for witness cor. to cor. of secs. 2, 3, 10 and 11, marked on brass cap.

T 39 N R 7 E
 W C
 S 3 | S 2
 S 10 | S 11
 1930

- 80.00 True point for cor. of secs. 2, 3, 10 and 11 falls in a wash, course NW., where it is impracticable to monument the cor., therefore establish witness cor. 10 lks. S. $0^{\circ}1'E.$, as described.

Land, rolling and mountainous.
Soil, rocky and sandy, 4th rate.
Timber, none.
Undergrowth, sagebrush and greasewood.

- 40.00 From true point for cor. of secs. 2, 3, 10 and 11, N. $89^{\circ}58'E.$ on random line, bet. secs. 2 and 11.
Set temp. $\frac{1}{4}$ sec. cor.
- 72.84 Fall $9\frac{1}{2}$ lks. N. of stake set 7.10 chs. W. of the sec. cor. by offset line hereinbefore described.
Discontinue chaining owing to cliffs E. of this point.
The random line projected would therefore at
- 79.94 Fall 10 lks. N. of the cor. of secs. 1, 2, 11 and 12, Thence N. $89^{\circ}58'W.$, on true line, bet. secs. 2 and 11.
Measurement of 7.10 chs. by offset line hereinbefore described.
- 7.10 Over broken and mountainous land, thru scattering undergrowth. Descend about 450 ft. over cliffs facing W. Base of cliffs, bearing N. and S. Enter rolling land. Descend 34 ft. over W. slope.
- 11.00 Draw, course N. Ascend 17 ft. over NE. slope.
- 29.00 Spur, slopes N. Road, bears N. to Canyon Bridge and S. to Flagstaff. Descend 30 ft. over W. slope.
- 31.50 Wash, 100 lks. wide, course NW. Descend 14 ft. over NW. slope to
- 39.10 Wash, 30 lks. wide, course NW. Ascend slightly to
- 39.97 Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground, to bedrock, over a cross (X) marked thereon, and raise a mound of stone 5 ft. base, $2\frac{1}{2}$ ft. high, around post, for $\frac{1}{4}$ sec. cor., marked on brass cap

S 2
 $\frac{1}{4}$ ———
 S 11
 1930

- 65.00 Descend 50 ft. over NW. slope.
Wash, 75 lks. wide, course NW. Ascend 40 ft. over NE. slope.
- 75.00 Spur, slopes N. Descend 11 ft. to

Survey of the Subdivision Lines of
T.39 N., R.7 E.

BOOK 3898

chains
79.94

The true point for cor. of secs. 2, 3, 10 and 11, in a wash,
course NW. (Witness cor. 10 lks. S.0°1'E.)

Land, broken, mountainous and rolling.
Soil, rocky and sandy, 4th rate.
Timber, none.
Undergrowth, sagebrush and greasewood.

40.00
79.87

From true point for cor. of secs. 2, 3, 10 and 11,
North, on random line, bet. secs. 2 and 3.
Set temp. $\frac{1}{4}$ sec. cor.

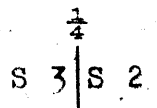
Fall 5 lks. E of the cor. of secs. 2, 3, 34 and 35 on the
N. bdy. of the Tp., which is an iron post, 2 ins. in
diam., projecting 10 ins. above ground, firmly set,
properly marked on brass cap, and witnessed by a
mound of stone, W. of cor. No bearing trees.

8.35

Thence,
S.0° 2'E., on true line, bet. secs. 2 and 3.
Over rolling land, thru scattering undergrowth.
Ascend 87 ft. over NW. slope.
Buck Lowery's Trading Post bears East 1.50 chs. dist.
State Highway inspecting Station bears NW. 2.00 chs.
dist. Road, bears NW. to Canyon Bridge and SE. to
Flagstaff.

10.80
14.80
25.80
31.35
39.87

Spur, slopes NW. Descend 10 ft. over SW. slope.
Wash, 10 lks. wide, course NW. Ascend 22 ft.
Spur, slopes NW. Descend 60 ft. over SW. slope.
Gulch, course NW. Ascend 85 ft. over NE. slope to
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
3 ft. base, 16 ins. high, around post, for $\frac{1}{4}$ sec. cor.,
marked on brass cap



1930

47.00
52.30
55.70
61.10
64.90
69.90
78.60
79.87

Ascend gradually over W. slope.
Descend 15 ft. over SW. slope.
Gulch, course NW. Ascend 11 ft.
Spur, slopes NW. Descend 8 ft.
Draw, course W. Ascend 22 ft.
Spur, slopes NW. Descend 12 ft.
Draw, course NW. Ascend 35 ft. over NW. slope to the
sec. cor. point.
Wash, 15 lks. wide, course NW.
The true point for cor. of secs. 2, 3, 10 and 11, in a
wash, course NW. (Witness cor. 10 lks. S.0°1'E.)

Land, rolling.
Soil, rocky and sandy, 4th rate.
Undergrowth, sagebrush, blackbrush and greasewood.
Timber, none.

3.00
9.00
23.00
27.50
31.36

From the cor. of secs. 3, 4, 33 and 34 on the S. bdy. of
the Tp., hereinbefore described,
N.0° 2'W., on true line, bet. secs. 33 and 34.
Over rolling and broken land, thru very scattering under-
growth. Descend 5 ft. over E. slope.
Wash, 10 lks. wide, course NW. Descend 22 ft. over
NW. slope to
Wash, 15 lks. wide, course NE. Descend 29 ft. over
NE. slope to rim of ledges.
Road, bears NE. and SW.
Rim of ledges along draw. Descend 62 ft. over NW. slope.
Wash in draw, 100 lks. wide, course NE. Ascend 57 ft.
over SE. slope.

Survey of the Subdivision Lines Of
T. 39 N., R. 7 E.

chains	
35.50	Spur, slopes N. from SW. Thence along top of spur. Descend 15 ft. to
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 3 ins. in the ground to bedrock, over a cross (X) marked thereon, and raise a mound of stone 5 ft. base, 33 ins. high, around post, for $\frac{1}{4}$ sec. cor., marked on brass cap.
	$\frac{1}{4}$ S 33 S 34 1930
	Descend 17 ft. along top of spur.
45.00	Leave top of spur, slopes NW. from S. Descend 65 ft. over NE. slope to
77.50	Rim of canyon, bears SE. and SW. Descend 61 ft. over steep N. slope to
80.00	True point for cor. of secs. 27, 28, 33 and 34 falls in wash, 150 lks. wide, course N. from SE., in bottom of a canyon, course NW., joined at this point by another canyon from the SW. It being impracticable to monument the cor. at its true point, establish witness cor. 2.85 chs. East as hereinafter described.
	Land, rolling and broken. Soil, rocky and sandy, 4th rate. Timber, none. Undergrowth, sagebrush and blackbrush.

	East, (from sec. cor. point) on random line, bet. secs. 27 and 34.
10.00	Set temp. $\frac{1}{4}$ sec. cor.
79.98	Intersect the cor. of secs. 26, 27, 34 and 35. Thence, West, on true line, bet. secs. 27 and 34. Over rolling and broken land, thru scattering undergrowth. Descend 170 ft. over NW. slope to
25.00	Wash, 50 lks. wide, course NW. Descend 20 ft. over NW. slope to
38.00	Wash, 15 lks. wide, course NW. Ascend 15 ft. to
39.99	Set an iron post, 3 ft. long, 1 in. in diam., 9 ins. in the ground to bedrock, over a cross (X) marked thereon, and raise a mound of stone 5 ft. base, 27 ins. high, around post, for $\frac{1}{4}$ sec. cor., marked on brass cap.
	$\frac{1}{4}$ S 27 S 34 1930
69.00	Descend 60 ft. over NW. slope. Low spur, slopes NW. Descend 25 ft. over W. slope to rim of canyon. Road, bears NW. and SE.
77.13	(2.85 chs. E. of cor. point) Set an iron post, 3 ft. long, 2 ins. in diam., over a cross (X) marked on surface rock, and raise a mound of stone 5 ft. base, 3 ft. high, around post, for witness cor. to cor. of secs. 27, 28, 33 and 34, marked on brass cap.
	T 39 N R 7 E S 28 S 27 WC --- S 33 S 34 1930
77.50	Rim of canyon, bears NW. and SE. Descend 61 ft. to

Survey of the Subdivision Lines of
T.39 N.,R.7 E.

BOOK 3898

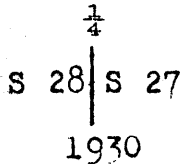
chains
79.98

True point for cor. of secs. 27, 28, 33 and 34 in wash,
150 lks. wide, course N. from SE., in bottom of canyon.
Witness cor. established 2.85 chs. E. as described.

Land, rolling and broken.
Soil, rocky and sandy, 4th rate.
Timber, none.
Undergrowth, sagebrush and blackbrush.

From true point for cor. of secs. 27, 28, 33 and 34,
N.0° 2'W., on true line, bet. secs. 27 and 28.
Over broken land, thru scattering undergrowth.
Descend gradually down wash, 150 lks. wide, course N.
in bottom of canyon.

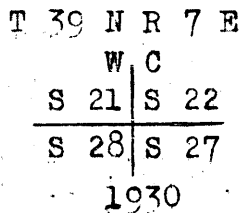
- 3.60 Leave wash, course NW. Ascend 69 ft. over SW. slope to
- 7.10 Rim of canyon, bears NW. and SE. Thence over rolling land.
Ascend 45 ft. over SW. slope.
- 14.00 Spur, slopes NW. Descend 35 ft. over NE. slope to
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the
ground to bedrock, over a cross (X) marked thereon, and
raise a mound of stone 4 ft. base, 3 ft. high, around the
post, for $\frac{1}{4}$ sec. cor., marked on brass cap,



- 72.50 Descend 145 ft. over NE. slope to
Rim of canyon, bears NW. and SE. Enter broken land.
Descend 86 ft. over NE. slope

74.40 Wash, 100 lks. wide, course NW. in bottom of ^{Little} Badger
Canyon. Ascend 10 ft. over SW. slope to

- 77.10 Set an iron post, 3 ft. long, 2 ins. in diam., 8 ins. in the
ground to bedrock, over a cross (X) marked thereon,
and raise a mound of stone 5 ft. base, 28 ins. high,
around post, for witness cor. to cor. of secs. 21, 22, 27
and 28, marked on brass cap,

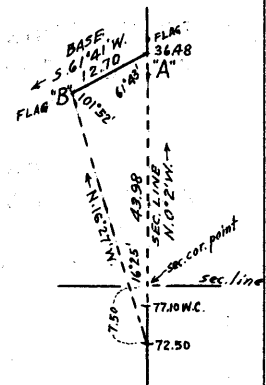


- 77.15 Base of cliffs, bearing NW. and SE., facing SW.
Discontinue chaining and triangulate measurement to
a point on line bet. secs. 21 and 22 as follows:
Set a flag "A" on line bet. secs.
21 and 22.

Set a flag "B" at SW. end of a
base chained S. 61° 41' W. ...
12.70 chs. from flag "A"

Longer base impracticable.
From 72.50 ch. station on
sec. line bet. secs. 27 and
28 the flag "B" bears
N. 16° 27' W.

All bearings checked by direct
reading of the solar and
all angles checked by deflection.



Triang. dist. to flag "A" = 43.98 chs. N. 0° 2' W.
 Dist. 72.50 ch. sta. to cor. point = 7.50 " "
 Dist. flag "A" from sec. cor. point = 36.48 chs. N. 0° 2' W.

- 80.00 True point for cor. of secs. 21, 22, 27 and 28 falls on face
of cliffs, on E. side of ^{Little} Badger Canyon, on point of a
spur bet. said canyon and mouth of another canyon from
the SE.

Survey of the Subdivision Lines of T. 39 N., R. 7 E.

chains

The sec.cor.point being inaccessible and impracticable to monument, establish witness cor. at 2.90 chs. S.0°2'E. as described.

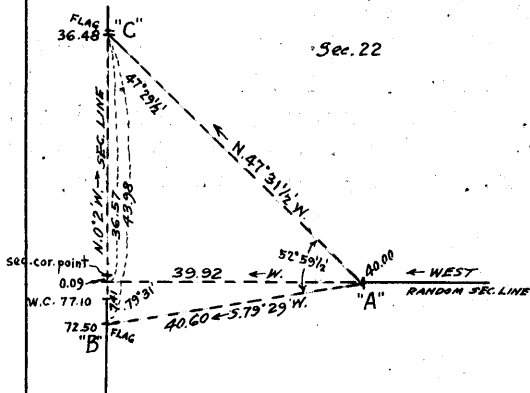
Land, rolling and broken. Soil, rocky and sandy, 4th rate. Timber, none. Undergrowth, sagebrush and blackbrush.

Random line East bet.secs.22 and 27 being impracticable, begin at the cor.of secs.22,23,26 and 27, thence, West, on random line,bet. secs.22 and 27.

40.00

Set temp. 1/4 sec.cor.

The objective sec.cor.point being inaccessible and also invisible from any available point on random line, obtain measurement and falling of the random line by triangulation as follows:



Designating this point as "A", Set flag "B" at 72.50 ch. station on line bet.secs.27 and 28, which bears S.79°29'W. from point "A". Set flag "C" at 36.48 ch. station on line bet.secs.21 and 22, which bears N.47°31 1/2'W. from point "A".

All bearings checked by direct reading of the solar, and all angles checked by deflection.

Triang.dist."A" to "B"=40.60 chs.S.79°29'W.

Chained dist.on random line =40.00 chs.West.

Computed dist."A" to intersection with meridional sec. line =39.92 chs.West

Total length of random line =79.92 chs.West.

Dist. "B" to sec.cor.point on = 7.50 chs.N.0°2'W.

Computed dist."B" to random line.intersection point = 7.41 " "

Falling of random line projected = 0.09 chs. S.

79.92 Fall 9 lks. S. of true point for cor.of secs.21,22,27 and 28,

True course and dist.of line bet.secs.22 and 27 are therefore, N.89°56'W., 79.92 chs.

From cor.of secs.22,23,26 and 27,

N.89°56'W., on true line, bet. secs.22 and 27.

Over rolling and broken land, thru scattering undergrowth. Descend 85 ft. over general W.slope to point for the 1/4 sec.cor.

39.70 Road, bears NW. to Canyon Bridge, and SE. to Flagstaff.

39.96 True point for 1/4 sec.cor. falls within the proposed right of way of the new State highway, therefore establish witness cor. 50 lks. N.89°56'W.

Descend 80 ft. over W. slope to bottom of canyon.

40.46 Set an iron post, 3 ft.long, 1 in.in diam., 28 ins.in the ground, for witness cor. to 1/4 sec.cor., marked on brass cap,

S 22
1/4 WC
S 27
1930

and raise mound of stone, 4 ft. base, 2 1/2 ft. high, N. of cor.

52.50 Center of bottom of canyon, about 6.00 chs. wide, course NW. Ascend 50 ft. over NE. slope.

79.00 Point of spur, sloping NW. at E. rim of ^{Little} Badger Canyon. Discontinue chaining. Descend 75 ft. over cliffs, facing W. Measurement to sec.cor.point by triangulation hereinbefore described.

Survey of the Subdivision Lines of
T. 39 N., R. 7 E.

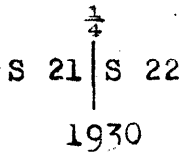
BOOK 3898

chains
79.92

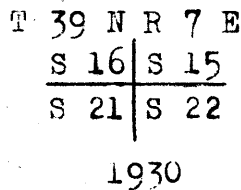
The true point for cor. of secs. 21, 22, 27 and 28, on face of cliffs, on E. side of ^{Little} Badger Canyon.
Witness cor. 2.90 chs. S. 0° 2' E.

Land, rolling and broken.
Soil, rocky and sandy, 4th rate.
Timber, none.
Undergrowth, blackbrush and sagebrush.

- 15.00 (Approx.) Center of bottom of the mouth of a canyon from the SE., about 8 chs. wide.
Ascend about 55 ft. over SW. slope.
- 25.00 (Approx.) Spur, slopes NW. Descend about 40 ft. over N. slope.
- 32.50 (Approx.) Bottom of canyon, about 2 chs. wide, course SW., near mouth. Ascend about 50 ft. over S. slope to
- 36.48 Triangulation point. Continue line and measurement by chaining. Ascend 25 ft. over SW. slope to
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 8 ins. in the ground to bedrock, over a cross (X) marked thereon, and raise a mound of stone 5 ft. base, 28 ins. high, around post, for $\frac{1}{4}$ sec. cor., marked on brass cap,



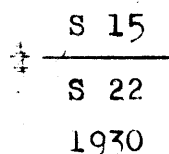
- 55.00 Ascend 33 ft. over SW. slope to Rim of canyon, bears NE. and SW. Leave canyon. Enter nearly level land.
- 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 28 ins. in the ground, for cor. of secs. 15, 16, 21 and 22, marked on brass cap,



and raise mound of stone, 4 ft. base, 2 $\frac{1}{2}$ ft. high, W. of cor.

Land, broken, rolling and nearly level.
Soil, rocky and gravelly, 4th rate.
Timber, none.
Undergrowth, sagebrush.

- 40.00 S. 89° 56' E. on random line, bet. secs. 15 and 22 Set temp. $\frac{1}{4}$ sec. cor.
- 80.02 Fall 5 lks. S. of the cor. of secs. 14, 15, 22 and 23, Thence N. 89° 58' W., on true line, bet. secs. 15 and 22. Over rolling land, thru scattering undergrowth. Descend 57 ft. over W. slope to
- 40.01 Set an iron post, 3 ft. long, 1 in. in diam., 30 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,



and raise mound of stone, 4 ft. base, 2 $\frac{1}{2}$ ft. high, N. of cor.

Survey of the Subdivision Lines of
T.39 N., R.7 E.

chains

65.00 Descend 30 ft. over W. slope
Enter nearly level land.
80.02 The cor. of secs. 15, 16, 21 and 22.

Land, rolling and nearly level.
Soil, gravelly, 4th rate.
Timber, none.
Undergrowth, sagebrush.

5.00

N. 0° 2' W., on true line, bet. secs. 15 and 16.
Over nearly level land, thru scattering undergrowth.
Enter rolling and broken land.
Descend 6 ft. over NW. slope.

10.00

Descend 55 ft. over NE. slope.

28.15

Gulch, course NW. Ascend 35 ft. over SW. slope.

33.00

Spur, slopes W. Descend 20 ft. over N. slope.

38.95

Draw, course W. Ascend slightly over S. slope to

40.00

Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground to bedrock, over a cross (X) marked thereon, and raise a mound of stone 5 ft. base, 2 1/2 ft. high, around post, for 1/4 sec. cor., marked on brass cap

1/4
S 16 | S 15

1930

Ascend 15 ft. over S. slope.

42.10

Spur, slopes W. Descend 40 ft.

43.99

Gulch, course W. Ascend 46 ft.

52.00

Spur, slopes W. Descend 31 ft. over N. slope.

62.38

Gulch, course W. Ascend 26 ft. over S. slope.

73.40

Spur, slopes W. Descend 90 ft. over N. slope.

77.40

Gulch, course W. Ascend 38 ft. over SW. slope to

80.00

Set an iron post, 3 ft. long, 2 ins. in diam., 10 ins. in the ground to bedrock, over a cross (X) marked thereon and raise a mound of stone 4 ft. base, 26 ins. high, around post, for cor. of secs. 9, 10, 15 and 16, marked on brass cap

T 39 N R 7 E
S 9 | S 10
S 16 | S 15

1930

Land, nearly level, broken and rolling.
Soil, gravelly, 4th rate.
Timber, none.
Undergrowth, sagebrush.

40.00

S. 89° 58' E., on random line, bet. secs. 10 and 15.
Set temp. 1/4 sec. cor.

80.04

Fall 2 lks. S. of the cor. of secs. 10, 11, 14 and 15, Thence,

N. 89° 59' W., on true line, bet. secs. 10 and 15.

Over rolling land, thru scattering undergrowth.

Descend 50 ft. over NW. slope to

40.02

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 4 ft. base, 16 ins. high, around post, for 1/4 sec. cor., marked on brass cap,

1/4 S 10
S 15

1930

Survey of the Subdivision Lines of
T.39 N.,R.7 E.

BOOK 3808

chains
46.05
48.25
63.25
80.04

Descend 63 ft. over W. slope. . . .
Gulch, course N. Ascend 50 ft. . . .
Spur, slopes N. Descend 17 ft. over W. slope.
Descend 64 ft. over SW. slope to
The cor. of secs. 9, 10, 15 and 16.

Land, rolling.
Soil, gravelly and rocky, 4th rate.
Timber, none.
Undergrowth, sagebrush, spanish dagger and grass.

7.15
24.79

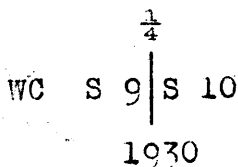
N.0° 2'W., on true line, bet. secs. 9 and 10.
Over rolling land, thru scattering undergrowth.
Ascend 60 ft. over SW. slope.
Spur, slopes W. Descend 42 ft. over NW. slope to
East or left rim of the Marble Canyon of the Colorado
River, bears N.7°52'E. and S.11°30'W.
Beyond this point the section line passes over
almost perpendicular cliffs on the East wall of the
canyon. The river is between 700 and 800 ft. below
the rim.
Discontinue chaining on the sec. line at this point
and obtain measurement to the point for 1/4 sec. cor.
by an offset line as follows:

From 24.79 ch. station on sec. line,
East, 3.39 chs. to offset point
in sec. 10.

Thence,
N.0° 2'W., 15.21 chs., descending 78
ft. over NW. slope to
offset point.

Thence
West, 1.29 chs., descending 12 ft. to
point on rim of canyon
2.10 chs. East from the
true point for 1/4 sec. cor.,

at which point on rim, set an iron pest, 3 ft. long,
1 in. indiam., 30 ins. in the ground, for witness cor.
to 1/4 sec. cor., marked on brass cap,



and raise a mound of stone, 4 ft. base, 2 ft. high, E.
of cor.

40.00

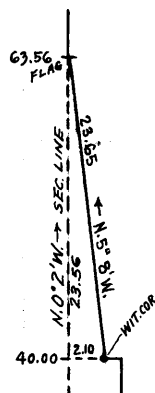
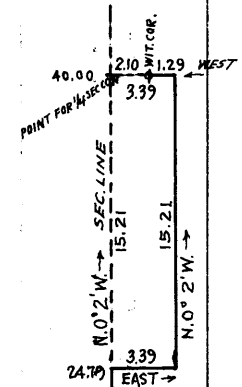
True point for 1/4 sec. cor. falls on the East wall of the
Marble Canyon where it is inaccessible and cannot be
monumented, therefore establish witness cor. 2.10 chs.
East as described.

From witness cor. to 1/4 sec. cor. obtain measurement to
point of intersection of the section line with the
East rim of the canyon by a traverse as follows:

From 24.79 ch. station line in a
flag on canyon rim at a bearing
of N.0° 2'W.

From W.C. to 1/4 sec. cor.,
N.5° 8'W., on traverse along the
east rim of canyon toward the flag,
obtaining a chained measurement of
23.65 chs.

The lat. and dep. of this traverse
are 23.56 chs. N. and 2.115 chs. W.,
respectively, therefore the flag is
at 63.56 ch. station on sec. line.



63.56

East or left rim of Marble Canyon, bears N.14° 35'W.

Survey of the Subdivision Lines of
T. 39 N., R. 7 E.

chains	<p>and S. 5° 8' E., about 100 ft. above the witness cor. to $\frac{1}{4}$ sec. cor. of secs. 9 and 10 Thence on sec. line, N. 0° 2' W., continuing measurement from cor. of secs. 9, 10, 15 and 16. Over gently rolling land, thru scattering undergrowth. Ascend 20 ft. over SW. slope to</p>
80.00	<p>Set an iron post, 3 ft. long, 2 ins. in diam., 30 ins. in the ground, for cor. of secs. 3, 4, 9 and 10, marked on brass cap,</p> <p style="text-align: center;">T 39 N R 7 E S 4 S 3 S 9 S 10 ----- 1930</p> <p>and raise mound of stone, 4 ft. base, 2 ft. high, W. of cor.</p> <p>Land, broken and rolling. Soil, gravelly and rocky, 4th rate. Timber, none. Undergrowth, sagebrush.</p> <p style="text-align: center;">-----</p>
40.00	<p>S. 80° 59' E., on random line, bet. secs. 3 and 10. Set temp. $\frac{1}{4}$ sec. cor.</p>
80.08	<p>Fall 9 lks. S. of true point for cor. of secs. 2, 3, 10 and 11. Thence, S. 80° 57' W., on true line, bet. secs. 3 and 10. Over rolling and broken land, thru scattering undergrowth. Descend 14 ft. over NW. slope to</p>
7.00	<p>Wash, 15 lks. wide, course NW. Ascend 10 ft.</p>
10.10	<p>Low spur, slopes NW. Descend 30 ft. over W. slope.</p>
22.50	<p>Descend 104 ft. over SW. slope.</p>
27.30	<p>Gulch, course NW. Ascend 91 ft. over NE. slope.</p>
32.09	<p>Descend 12 ft. over NW. slope to</p>
40.04	<p>Set an iron post, 3 ft. long, 1 in. in diam., 30 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap,</p> <p style="text-align: center;">S 3 $\frac{1}{4}$ ——— S 10 1930</p> <p>and raise mound of stone, 4 ft. base, 2 ft. high, N. of cor.</p>
41.00	<p>Spur, slopes NW. Descend 79 ft. over SW. slope.</p>
46.77	<p>Gulch, course NW. Ascend 80 ft. over NE. slope.</p>
51.00	<p>Spur, slopes NW. Descend 25 ft. over W. slope to</p>
71.00	<p>Descend 62 ft. over SW. slope to</p>
80.08	<p>The cor. of secs. 3, 4, 9 and 10.</p> <p>Land, rolling and broken. Soil, gravelly and rocky, 4th rate. Timber, none. Undergrowth, sagebrush and blackbrush.</p> <p style="text-align: center;">-----</p>
8.40	<p>N. 0° 2' W., on random line, bet. secs. 3 and 4. East or left rim of Marble Canyon of the Colorado River. Discontinue chaining and triangulate measurement of random line across the canyon as follows: Set flag "A" at this point. Set flag "B" on random line on the west or right rim of the canyon. From flag "B" chain a base S. 49° 45' W., 32.85 chs. to point "C". From point "C" the flag "A" bears S. 87° 12$\frac{1}{2}$' E.</p>

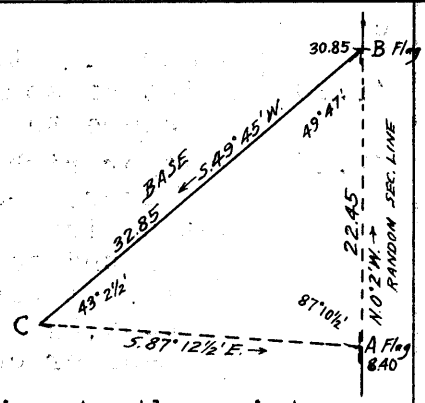
Survey of the Subdivision Lines of T.39 N., R.7 E.

chains

All bearings checked by direct reading of the solar and all angles checked by deflection.

Triang. dist. from flag "A" to flag "B" = 22.45 chs. N.0°2'W.

Flag "B" is therefore at 30.85 ch. station on the random line.



To obtain measurement on random line to the points for meander cors. at mean high water marks on the banks of the Colorado River, triangulate as follows:

From flag "A" of previous triangulation, line in a flag "D" at mean high water mark of right bank of river.

From flag "B" of previous triangulation line in a flag "E" at mean high water mark of left bank of river.

From flag "B" chain a base S.45°10'W., 5.00 chs. to point "F", from which flag "E" bears S.18°40'E.

From flag "A" on a bearing of N.50°50'E. set flag "G", which bears S.81°12'E. from flag "B".

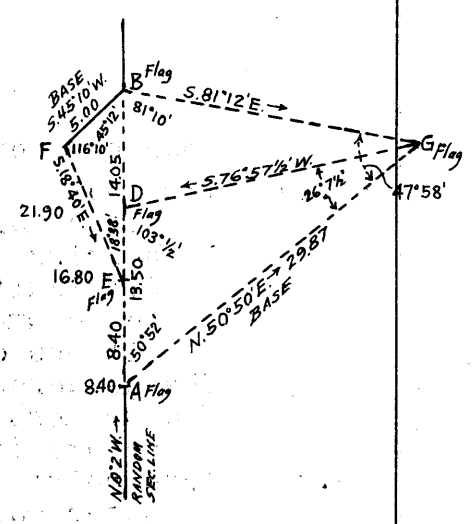
From flag "G" the bearing to flag "D" is S.76°57 1/2'W.

Dist. "A-G" computed from base "A-B" of triangle "A-B-G" is 29.87 chs.

Dist. "A-D" computed from base "A-G" of triangle "A-D-G" is 13.50 chs.

Dist. "B-E" computed from base "B-F" of triangle "B-E-F" is 14.05 chs., which by subtraction from "A-B" gives 8.40 chs., as the dist. "A-E"

All bearings checked by direct reading of the solar and all angles checked by deflection.



30.85 Triang. flag "B" at West or right rim of Marble Canyon. Continue line and measurement by chaining.

40.00 Set temp. 1/4 sec. cor.

80.00 Rail 7 lks. W. of the cor. of secs. 3, 4, 33 and 34 on the N. bdy. of the Tp., which is an iron post, 2 ins. in diam., projecting 10 ins. above ground, firmly set, properly marked on brass cap, and witnessed by four pits, one each NE., SE., SW. and NW. of cor. No bearing trees.

Thence S.0° 1'W., on true line, bet. secs. 3 and 4. Over rolling land, thru scattering undergrowth. Descend 10 ft. over SE. slope.

10.00 Ascend 40 ft. over N. slope.

35.00 Spur, slopes E. Descend 57 ft. over SW. slope.

40.00 True point for 1/4 sec. cor. falls in wash, course SE., where it is impracticable to monument the cor., therefore establish witness cor. 30 lks. S.0°1'W.

40.30 Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground to bedrock, over a cross (X) marked thereon, and raise a mound of stone 4 ft. base, 2 ft. high, around post, for witness cor. to 1/4 sec. cor., marked on brass cap.

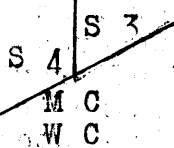
W.C. S 4 | S 30 1930

Survey of the Subdivision Lines of
T. 39 N., R. 7 E.

chains

- Ascend 15 ft. over NE. slope.
41.20 Point of spur, slopes NE. Descend 20 ft. over SE. slope to
49.15 West or right rim of Marble Canyon of the Colorado River, bears N. $49\frac{3}{4}^{\circ}$ E. and S. 43° W.
Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the ground to bedrock, deposit a stone marked with a cross (X) at base of post, and raise a mound of stone 5 ft. base, $2\frac{3}{4}$ ft. high, around post, for witness cor. to meander cor. of secs. 3 and 4, marked on brass cap.

T 39 N R 7 E

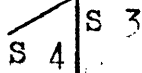


1930

- 58.10 Descend about 600 ft. over precipitous face of cliffs to True point for meander cor. of secs. 3 and 4, at mean high water mark of the right bank of the Colo. River, bearing N. $51\frac{3}{4}^{\circ}$ E. and S. 45° W. Owing to extreme difficulty in reaching this point it is impracticable to monument the meander cor. here, therefore establish witness cor. at 8.95 chs. N. $0^{\circ} 1' E$. as described.
Thence across the Colorado River, course SW.
Measurement between the rims by triangulation hereinbefore described.

- 63.20 True point for meander cor. of secs. 3 and 4, at mean high water mark of the left bank of the Colo. River, bearing N. $61\frac{1}{4}^{\circ}$ E., and S. 45° W. Owing to extreme difficulty in reaching this point and the nature of the surface at this point it is impracticable to monument the meander cor. here, therefore establish witness cor. at 8.40 chs. S. $0^{\circ} 1' W$. as hereinafter described.

- Leave Colo. River and ascend about 500 ft. over precipitous face of cliffs to
71.60 East or left rim of Marble Canyon of the Colo. River, bears N. $56\frac{3}{4}^{\circ}$ E. and S. 27° W.
Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in the ground to bedrock, over a cross (X) marked thereon, and raise a mound of stone 5 ft. base, 26 ins. high, around post, for witness cor. to meander cor. of secs. 3 and 4, marked on brass cap.

W C
M C

T 39 N R 7 E

1930

- Continue line and measurement by chaining.
Ascend 20 ft. over NW. slope.
73.00 Point of spur, slopes W. Descend 40 ft. over SW. slope to
80.00 The cor. of secs. 3, 4, 9 and 10.
Land, rolling and broken.
Soil, gravelly and rocky, 4th rate.
Timber, none.
Undergrowth, sagebrush and blackbrush.

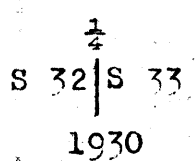
- From cor. of secs. 4, 5, 32 and 33 on the S. bdy. of the Tp., hereinbefore described,
N. $0^{\circ} 3' W$, on true line, bet. secs. 32 and 33.
Over rolling and broken land, thru scattering undergrowth.
Ascend 28 ft. over W. slope.
10.00 Ascend 40 ft. over SW. slope to

Survey of the Subdivision Lines of
T.39 N.,R.7 E.

BOOK 3898

chains
40.00

Set an iron post, 3 ft.long, 1 in.in diam.,30 ins.in the ground,for 1/4 sec.cor., marked on brass cap,



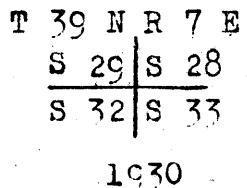
and raise mound of stone,4 ft.base,2 ft.high,W.of cor. ascend gradually over S. slope.

60.00

Spur, slopes SW. Descend 50 ft.over NW. slope to

80.00

Set an iron post, 3 ft.long, 2 ins.in diam.,8 ins.in the ground to bedrock,over a cross (X) marked thereon, and raise a mound of stone,5 ft.base,28 ins.high, around post, for cor.of secs.28,29,32 and 33, marked on brass cap,



Land, rolling and broken.
Soil, gravelly and rocky, 4th rate.
Timber, none.
Undergrowth, sagebrush,blackbrush and greasewood.

40.00

East, on random line, bet.secs.28 and 33.

79.88

Set temp. 1/4 sec.cor.
Fall 2 lks. S. of true point for cor.of secs.27,28,33 and 34,

Thence,
S.89°59'W.,on true line,bet. secs.28 and 33.
Over broken land,thru scattering undergrowth,in canyon.
Ascend 20 ft.over NE. slope.

1.70

Descend 42 ft.over NW. slope.

3.15

Wash, in bend, course NW. from SW.

Ascend 105 ft.over E. slope.

28.30

Spur, slopes NE. Descend 82 ft.over NW. slope.

32.30

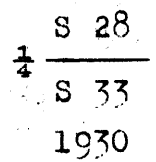
Gulch, course NE. Ascend 110 ft. over E. slope

38.05

Spur, slopes NE. Descend 12 ft.over NW. slope to

39.94

Shallow draw, course N. Set an iron post, 3 ft.long, 1 in.in diam.,8 ins.in the ground to bedrock,deposit a stone marked with a cross (X) at base of post,and raise a mound of stone around post,5 ft.base,28 ins. high, for 1/4 sec.cor.,marked on brass cap,



Ascend 50 ft. over NE. slope.

69.30

Spur, slopes N. Descend 64 ft.over W. slope.

72.00

Gulch, course N. Ascend 70 ft. over E. slope.

74.30

Enter rolling land. Ascend 40 ft.over NE. and N. slopes to

79.88

The cor.of secs.28,29,32 and 33.

Land, broken and rolling.
Soil, gravelly and rocky, 4th rate.
Timber, none.
Undergrowth, sagebrush and greasewood.

N.0° 3'W.,on true line, bet. secs.28 and 29.
Over rolling land,thru scattering undergrowth.
Descend 17 ft.over N. slope.

Survey of the Subdivision Lines of
T.39 N.,R.7 E.

chains

5.00 Descend 56 ft. over NW. slope.
 12.25 Draw, course NE. Ascend 35 ft. over SE. slope.
 17.30 Spur, slopes NE. Descend 51 ft. over NW. slope to
 30.15 Enter wash, course N. in bottom of rocky gulch.
 Descend 15 ft. in wash to
 40.00 True point for $\frac{1}{4}$ sec. cor. falls in same wash where it is impracticable to monument the cor., therefore establish witness cor. at a point 46 lks. West, as follows:
 Set an iron post, 3 ft. long, 1 in. in diam., 3 ins. in the ground to bedrock, over a cross (X) marked thereon, and raise a mound of stone 5 ft. base, 33 ins. high, around post, for witness cor. to $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$
 S 29 | S 28 WC
 1930

45.10 Descend 12 ft. in wash to
 Leave wash, course NW. from S. Ascend 40 ft. over broken SW. slope.

69.55 Point of spur, slopes NW. Descend 75 ft. over N. slope.

77.80 Gulch, course W. Ascend 45 ft. over S. slope to

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 8 ins. in the ground to bedrock, over a cross (X) marked thereon, and raise a mound of stone 5 ft. base, 28 ins. high, around post, for cor. of secs. 20, 21, 28 and 29, marked on brass cap,

T 39 N R 7 E
 S 20 | S 21
 S 29 | S 28
 1930

Land, rolling and broken.
 Soil, gravelly and rocky, 4th rate.
 Timber, none.
 Undergrowth, greasewood, sagebrush and grass.

40.00 N. 89° 59' E., on random line, bet. secs. 21 and 28.
 Set temp. $\frac{1}{4}$ sec. cor.

80.04 Fall 7 lks. N. of true point for cor. of secs. 21, 22, 27 and 28, on face of cliff on E. side of Little Badger Canyon.

Thence,
 N. 89° 58' W., on true line, bet. secs. 21 and 28.

Over broken land, thru scattering undergrowth.
 Descend about 20 ft. to

0.75 Little Badger Canyon, course NW. Ascend 100 ft. over NE. slope.

9.00 Spur, slopes NW. Descend 120 ft. over W. slope.

20.00 Box canyon, course NW. Ascend 90 ft. over NE. slope to

40.02 Set an iron post, 3 ft. long, 1 in. in diam., 8 ins. in the ground to bedrock, over a cross (X) marked thereon, and raise a mound of stone 5 ft. base, 28 ins. high, around post, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$\frac{1}{4}$ S 21
 S 28
 1930

45.00 Enter rolling land. Ascend 11 ft. over NE. slope.

49.75 Spur, slopes N. Descend 32 ft. over W. slope.

55.00 Draw, course N. Ascend 38 ft. over E. slope.

75.00 Ascend 35 ft. over NE. slope.

Spur, slopes N. Descend 50 ft. over SW. and S. slopes to

Survey of the Subdivision Lines of T.39 N., R.7 E.

BOOK 3898

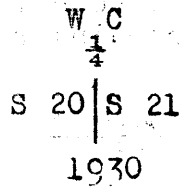
chains 80.04

The cor. of secs. 20, 21, 28 and 29.

Land, broken and rolling. Soil, rocky and gravelly, 4th rate. Timber, none. Undergrowth, sagebrush and greasewood.

1.40 31.10

N.0° 3'W., on true line, bet. secs. 20 and 21. Over broken and rolling land, thru scattering undergrowth. Ascend 36 ft. over S. slope. Point of spur, slopes W. Descend 44 ft. over NW. slope to East or left rim of the Marble Canyon of the Colorado River, bears N.30 1/2° E. and S.30 1/2° W. Discontinue chaining at this point as the remainder of the section line is within the canyon and is impassable. Establish witness cor. to the 1/4 sec. cor. at this point as follows: set an iron post, 3 ft. long, 1 in. in diam., 2 ins. in the ground to bedrock, over a cross (X) marked thereon, and raise a mound of stone, 5 ft. base, 34 ins. high, around post, for witness cor. to 1/4 sec. cor., marked on brass cap.



Triangulate measurement of the remainder of the sec. line as follows:

From witness cor., designated as point "A", measure a base N.30°30'E., 41.96 chs. to point "B"

Set a flag "C" on the West rim of canyon, which bears West from the cor. of secs. 15, 16, 21 and 22, N.2°59'W. from point "A", and N.61°52'W. from point "B".

Set a flag "D" on sec. line bet. secs. 16 and 17 at West rim of canyon, and bearing N.35°9'W. from point "B"

Point for cor. of secs. 16, 17, 20 and 21 in canyon is designated as "E".

All bearings checked by direct readings of the solar, and all angles checked by deflection.

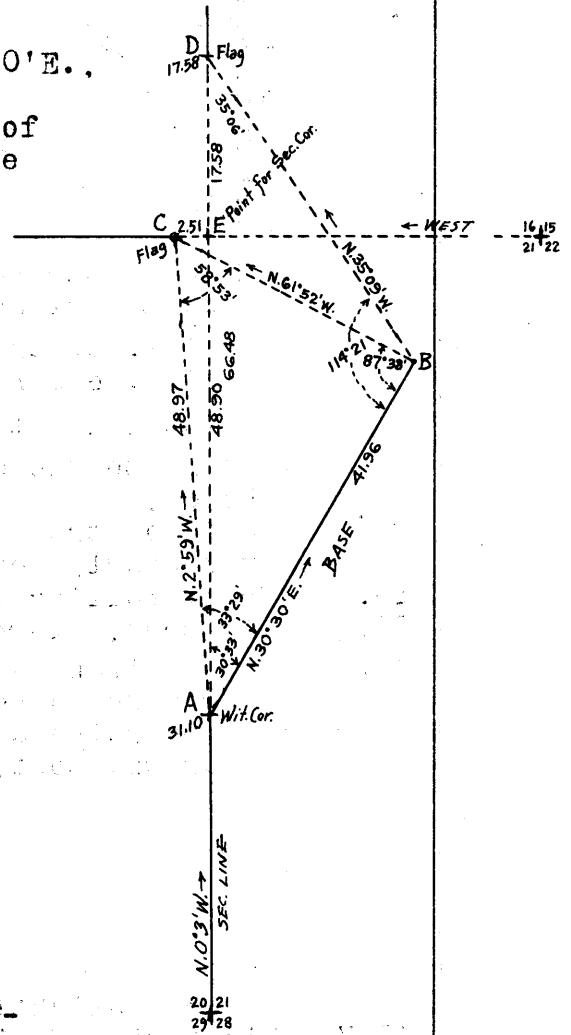
Dist. "A-C" computed from base "A-B" is 48.97 chs.

Dist. "A-E" computed from the triangle "A-C-E" is 48.90 chs., therefore the line west from the cor. of secs. 15, 16, 21 & 22 passes thru the true point for cor. of secs. 16, 17, 20 & 21.

Dist. "C-E" computed from the triangle "A-C-E" is 2.51 chs.

Dist. "A-D" computed from the triangle "A-B-D" is 66.48 chs.

Flag "D" is therefore 66.48 chs. - 48.90 chs. = 17.58 chs. N.0°3'W. from sec. cor. point "E".



60.00

(Approx.) Center of the Colo. River, about 7 chs. wide, course SW. About 750 ft. below the rim at 31.10 ch. station. Ascend about 300 ft. over SE. face of cliffs on west wall of canyon to

80.00

True point for cor. of secs. 16, 17, 20 and 21 falls on face of cliffs where it is inaccessible and cannot be

Survey of the Subdivision Lines of T.39 N., R.7 E.

chains

monumented, therefore establish witness cor. 2.51 chs. N. 89° 59' W. as hereinafter described.

Land, S. 31. chs. broken and rolling, remainder in the Marble Canyon, impassable:

Soil, gravelly and rocky, 4th rate.

Timber, none.

Undergrowth, sagebrush and greasewood.

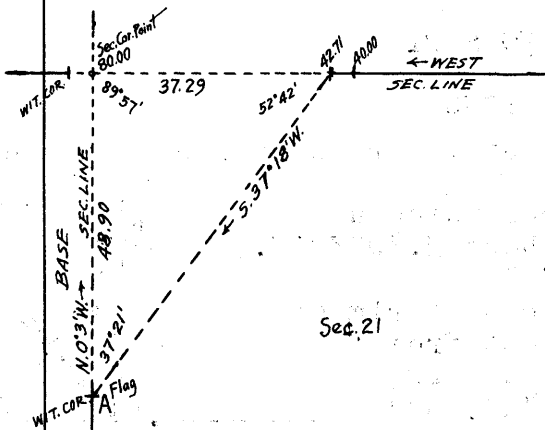
A random line east bet. secs. 16 and 21 is impracticable owing to the fact that nearly all of the West half of said line is in Marble Canyon and chaining is impossible, and the true bearing of the line was determined as due West by the triangulation of the N. 48.90 chs. of line bet. secs. 20 and 21 as hereinbefore described, therefore begin at the cor. of secs. 15, 16, 21 and 22.

Thence,

West, on random line, bet. secs. 16 and 21, for distance only.

40.00 Set temp. 1/4 sec. cor.

42.71 Right rim of Little Badger Canyon, bears N. 41 1/2° W. and S. 41 1/2° E. near junction with the East or left rim of Marble Canyon. Discontinue chaining and triangulate measurement of remainder of the line as follows:



Set flag "A" on the witness cor. to the 1/4 sec. cor. of secs. 20 and 21 at the east or left rim of Marble Canyon. Flag "A" bears S. 37° 18' W. from 42.71 ch. station on the random line bet. secs. 16 & 21. The objective sec. cor. point bears due West from same station as determined by previous triangulation. All bearings checked by direct reading of the solar and all angles checked by deflection.

Using the north 48.90 chs. of the sec. line bet. secs. 20 and 21 as a base the

Dist. triangulated = 37.29 chs. West.
Dist. chained = 42.71 " "

Total length of random line = 80.00 chs. West.

Return to the cor. of secs. 15, 16, 21 and 22,

Thence,

West, on true line, bet. secs. 16 and 21:

Over nearly level land, thru scattering undergrowth.

10.00 Enter rolling land. Descend 35 ft. over N. slope to

35.00 Low spur, slopes NW. Descend gradually over W. slope to

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 3 ins. in the ground to bedrock, over a cross (X) marked thereon, and raise a mound of stone 5 ft. base, 33 ins. high, around post, for 1/4 sec. cor., marked on brass cap.

S 16

S 21

1930

Descend slightly over W. slope to

42.71 Right rim of Little Badger Canyon, bears N. 41 1/2° W. and S. 41 1/2° E. Discontinue chaining. Measurement of the remainder of line by triangulation hereinbefore described. Descend about 750 ft. to the Colorado River, over cliffs of the mouth of Little Badger Canyon, and east wall of Marble Canyon.

65.00 (Approx.) Center of the Colorado River, about 6.50 chs. wide, course SW., joined at this point by the Badger Canyon from the NW. and Little Badger Canyon from the SE.

Survey of the Subdivision Lines of
T.39 N.,R.7 E.

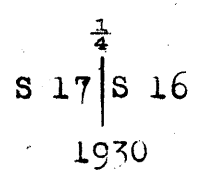
BOOK 3898

chains Ascend about 300 ft. over face of cliffs to
 80.00 True point for cor. of secs. 16, 17, 20 and 21 falls on face
 of cliffs on west or right wall of Marble Canyon
 where it is inaccessible and cannot be monumented,
 therefore establish witness cor. 2.51 chs. N. 89° 51' W.
 as hereinafter described.
 Land, E. 42.71 chs. nearly level and rolling, W. 37.29 chs
 broken and mountainous in Marble Canyon.
 Soil, gravelly and rocky, 4th rate.
 Timber, none.
 Undergrowth, sagebrush and greasewood.

 From true point for cor. of secs. 16, 17, 20 and 21,
 N. 0° 3' W., on true line, bet. secs. 16 and 17.
 Over broken and mountainous land, in Marble Canyon.
 Measurement of 17.58 chs. by triangulation hereinbefore
 described. Descend about 275 ft. to
 11.00 (Approx.) Bottom of Badger Creek Canyon, course SE.,
 joining the Marble Canyon of the Colo. River at this
 point.

Ascend about 725 ft. over cliffs to
 17.58 Triang. point at West or right rim of Marble Canyon,
 bearing NE. and SW., near junction with N. rim of Badger
 Creek Canyon. Leave canyon and mountainous land,
 and enter rolling and broken land, scattering under-
 growth. Continue line and measurement by chaining.

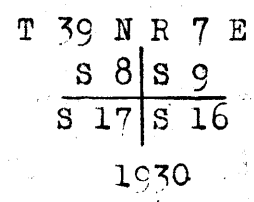
Ascend 22 ft. over S. slope.
 18.80 Point of spur, slopes SE. Descend 55 ft. over NE. slope.
 30.24 Gulch, course NE. Ascend 35 ft. over SE. slope.
 32.70 Spur, slopes E. Descend 15 ft. over N. slope to
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the
 ground to bedrock, over a cross (X) marked thereon,
 and raise a mound of stone 4 ft. base, 2 ft. high, around
 post, for 1/4 sec. cor., marked on brass cap,



Descend 36 ft. over N. slope
 52.00 Wash, 20 lks. wide, course NE. Ascend 10 ft. over SE.
 slope.

54.00 Descend 75 ft. over NE. slope.
 77.50 Gulch, course NW. Ascend 12 ft. over SW. slope to

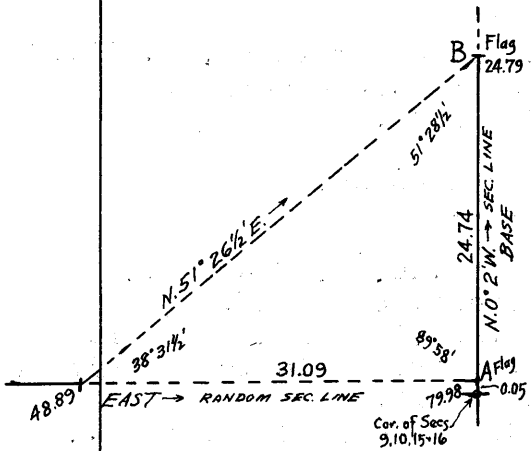
80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 10 ins. in
 the ground to bedrock, over a cross (X) marked thereon,
 and raise a mound of stone, 4 ft. base, 26 ins. high,
 around post, for cor. of secs. 8, 9, 16 and 17, marked on
 brass cap,



Land, S. 17.58 chs. mountainous, remainder broken and
 rolling.
 Soil, sandy, gravelly and rocky, 4th rate.
 Timber, none.
 Undergrowth, sagebrush and greasewood.

Survey of the Subdivision Lines of
T.39 N., R.7 E.

chains East, on random line, bet. secs.9 and 16.
 40.00 Set temp. $\frac{1}{4}$ sec.cor.
 48.89 West or right rim of Marble Canyon of the Colo.River,
 bears NE. and SW. Discontinue chaining and triangulate
 measurement to the sec.cor.as follows:



Set flag "A" east of this station
 and 5 lks.N.of the cor.of secs.
 9,10,15 and 16.
 Set a flag "B" at 24.79 ch.sta.
 on sec.line bet. secs.9 and 10,
 which point is at the E. rim of
 Marble Canyon, and bears
 N.51°26 $\frac{1}{2}$ 'E. from 48.89 ch.sta.
 on this random line.
 The base "A-B" is therefore
 24.79 chs.- 0.05 chs.=24.74 chs.
 N.0°2'W.
 All bearings checked by direct
 reading of the solar and all
 angles checked by deflection.

Dist.chained on random line = 48.89 chs. East.
 Dist. triangulated = 31.09 " "

Total length of random line = 79.98 chs. East.

79.98 Fall 5 lks. N. of the cor.of secs.9,10,15 and 16.
 Thence
 N.39°58'W.,on true line, bet. secs. 9 and 16.
 Over rolling land,thru scattering undergrowth.
 8.68 Descend 40 ft. over SW. slope, chaining measurement to
 East or left rim of Marble Canyon,bears N.23°E. and
 S.30 $\frac{1}{2}$ °W. Discontinue chaining. Measurement to the
 West rim by triangulation hereinbefore described.
 Descend about 650 ft. over cliffs to
 20.50 (Approx.) Center of the Colorado River,about 6 chs.wide,
 course SW.
 Ascend about 650 ft.over cliffs to
 31.09 Triang.point at West or right rim of Marble Canyon,
 bearing N.19 $\frac{1}{2}$ °E. and S.14 $\frac{3}{4}$ °W. Leave canyon and enter
 rolling land.
 Ascend 50 ft. over NE. slope.
 39.99 Set an iron post, 3 ft.long, 1 in.in diam.,12 ins.in the
 ground to bedrock,deposit a stone marked with a cross
 (X) at base of post,and raise a mound of stone 4 ft.
 base,2 ft.high,around post, for $\frac{1}{4}$ sec.cor., marked on
 brass cap,

S 9
 $\frac{1}{4}$ S 16
 1930

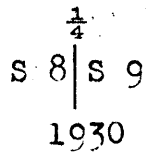
Ascend 10 ft. over NE. slope
 45.00 Spur, slopes SE. Descend 52 ft.over SW. slope to
 49.00 Gulch, course SE. Ascend slightly over NE. slope to
 50.10 Same gulch,course NE. Ascend 80 ft.over SE. slope.
 70.00 Spur, slopes NE. Descend 20 ft.over W. slope to
 79.98 The cor.of secs.8,9,16 and 17.

Land, rolling and broken,except the mountainous land
 in the Marble Canyon.
 Soil, gravelly and rocky, 4th rate.
 Timber, none.
 Undergrowth, sagebrush and greasewood.

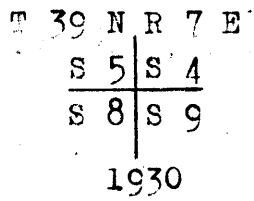
Survey of the Subdivision Lines of
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chains N.0° 3'W., on true line, bet. secs. 8 and 9.
Over rolling land, thru scattering undergrowth.
Ascend 23 ft. over SW. slope.
5.00 Spur, slopes NW. Descend 130 ft. over N. slope.
27.35 Gulch, course NE. Ascend 37 ft. over SE. slope.
38.00 Spur, slopes E. Descend 10 ft. over NE. slope to
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 24 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 1/4 sec. cor., marked on brass cap,



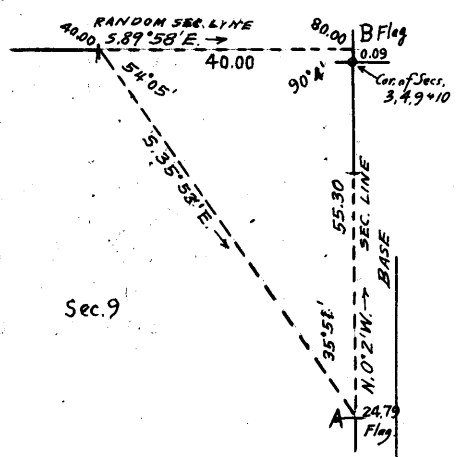
80.00 Descend 120 ft. over rolling NE. slope to
Set an iron post, 3 ft. long, 2 ins. in diam., 20 ins. in
the ground to bedrock, over a cross (X) marked thereon,
and raise a mound of stone around post, for cor. of
secs. 4, 5, 8 and 9, marked on brass cap,



Land, rolling.
Soil, gravelly and rocky, 4th rate.
Timber, none.
Undergrowth, sagebrush and greasewood.

40.00 S. 89° 58' E., on random line, bet. secs. 4 and 9.
West or right rim of Marble Canyon at junction with
South or right rim of a side canyon from the NW.
Set temp. 1/4 sec. cor. Discontinue chaining and triangu-
late measurement of the remainder of the random line
as follows:

Set flag "A" at 24.79 ch. station
on sec. line bet. secs. 9 & 10,
which bears S. 35° 53' E. from
40.00 ch. sta. on random line.
Set flag "B" S. 89° 58' E. from
40 ch. sta. on random line, and
9 lks. N. of the cor. of secs.
3, 4, 9 and 10.
The Base "A-B" is therefore
55.21 chs. + 0.09 chs. =
55.30 chs. N. 0° 2' W.
All bearings checked by direct
reading of the solar and all
angles checked by deflection.



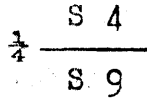
Dist. chained on random line = 40.00 chs. S. 89° 58' E.
Dist. triangulated = 40.00 " " "
Total length of random line = 80.00 chs. S. 89° 58' E.

80.00 Fall 9 lks. N. of the cor. of secs. 3, 4, 9 and 10,
Thence,
N. 89° 54' W., on true line, bet. secs. 4 and 9.
Over rolling land, thru scattering undergrowth.
Descend 25 ft. over SW. slope to
4.28 East or left rim of Marble Canyon of the Colo. River,
bears N. 27° E. and S. 14° 35' E. Discontinue chaining.
Measurement to opposite rim of canyon by triangulation
hereinbefore described.
Descend about 550 ft. over cliffs to

Survey of the Subdivision Lines of
T. 39 N., R 7 E.

chains

- 16.50 (Approx.) Center of the Colo. River, about 6.00 chs. wide, course SW., joined at this point by a side canyon from the NW.
- 40.00 Ascend about 600 ft. over cliffs to West or right rim of Marble Canyon merging at this point into South or right rim of a side canyon from the NW. Rim bears N. 65° W. and S. 59 1/4° E. Set an iron post, 3 ft. long, 1 in. in diam., 10 ins. in the ground to bedrock, over a cross marked thereon, and raise a mound of stone 4 ft. base 26 ins. high, around post, for 1/4 sec. cor., marked on brass cap.
- 44.50 Point of spur, sloping N. Descend 90 ft. over NW. slope.
- 48.60 Gulch, course NE. Ascend 80 ft. over SE. slope.
- 51.10 Spur, slopes NE. Descend 50 ft. over NW. and N. slopes to
- 80.00 The cor. of secs. 4, 5, 8 and 9.

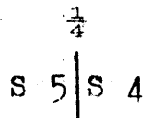


1930

Land, rolling and broken. Mountainous in canyon. Ascend 30 ft. over E. slope.

Soil, gravelly and rocky, 4th rate. Timber, none. Undergrowth, sagebrush and greasewood.

- 40.00 N. 0° 1' E., on random line, bet. secs. 4 and 5. Set temp. 1/4 sec. cor.
- 79.91 Intersect the true point for cor. of secs. 4, 5, 32 and 33 on the N. bdy. of the Tp., witnessed 1.52 chs. E. by an iron post, 2 ins. in diam., projecting 10 ins. above ground, firmly set, properly marked, and witnessed by a mound of stone W. of post. No bearing trees.
- 4.80 From true point for cor., S. 0° 1' W., on true line, bet. secs. 4 and 5. Over mountainous land, thru scattering undergrowth. Descend 70 ft. over steep SE. slope to thence over rolling land. Descend 85 ft. over gradual SE. slope to
- 25.00 Draw, course NE. Ascend 25 ft. over NW. slope.
- 30.00 Spur, slopes NE. Descend 20 ft. to wash. Road, bears NE. to Canyon Bridge and SW. to Grand Canyon National Park
- 36.50 Wash, 30 lks. wide, course E. Ascend 20 ft. to
- 39.91 Set an iron post, 3 ft. long, 1 in. in diam., 28 ins. in the ground, for 1/4 sec. cor., marked on brass cap



1930

- 50.00 and raise mound of stone, 4 ft. base, 2 ft. high, W. of cor. Ascend gradually over E. slope.
- 63.15 Descend 38 ft. over SE. slope.
- 65.20 Gulch, course NE. Ascend 26 ft.
- 75.20 Spur, slopes E. Descend 40 ft. over S. slope.
- 79.91 Bottom of box canyon, 90 lks. wide, course E. Ascend 15 ft. over N. slope to The cor. of secs. 4, 5, 8 and 9.

Land, mountainous and rolling. Soil, gravelly and rocky, 4th rate. Timber, none. Undergrowth, sagebrush and greasewood.

Survey of the Subdivision Lines of
T. 39 N. 7 R. 7 E.

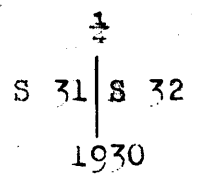
BOOK 3898

chains

From the cor. of secs. 5, 6, 31 and 32 on the S. bdy. of the
Tp., hereinbefore described,
N. 0° 3' W., on true line, bet. secs. 31 and 32.
Over rolling and broken land, thru scattering undergrowth.
Descend 80 ft. over NW. slope.

- 7.00 Gulch, course NW. Ascend 35 ft. over SW. slope.
- 11.60 Spur, slopes NW. Descend 50 ft. over NE. slope.
- 15.55 Gulch, course NW. Ascend 70 ft. over SW. slope.
- 20.40 Spur, slopes NW. Descend 65 ft. over NE. slope.
- 27.60 Draw, course NW. Ascend 48 ft. over SW. slope.
- 39.00 Spur, slopes NW. Descend 13 ft. over NE. slope to

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 6 ins. in the
ground to bedrock, over a cross (X) marked thereon,
and raise a mound of stone 5 ft. base, 2 1/2 ft. high,
around post, for 1/4 sec. cor., marked on brass cap

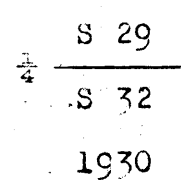


- 43.45 Descend 28 ft. over NE. slope.
- 48.40 Draw, course NW. Ascend 34 ft. over SW. slope.
- 65.60 Spur, slopes NW. Descend 160 ft. over NE. slope.
- 72.80 Gulch, course NW. Ascend 73 ft. over SW. slope.
- 80.00 Spur, slopes NW. Descend 21 ft. over NE. slope to
True point for cor. of secs. 29, 30, 31 and 32 falls in a
wash, course NW., where it is impracticable to monument
the cor., therefore establish witness cor. 55 lks.
N. 89° 54' W. as hereinafter described.

Land, rolling and broken.
Soil, gravelly and rocky, 4th rate.
Timber, none.
Undergrowth, sagebrush and greasewood.

- 40.00 From true point for cor. of secs. 29, 30, 31 and 32,
East, on random line, bet. secs. 29 and 32.
Set temp. 1/4 sec. cor.
- 79.94 Fall 2 lks. S. of the cor. of secs. 28, 29, 32 and 33,
Thence,
S. 89° 59' W., on true line, bet. secs. 29 and 32.
Over rolling and broken land, thru scattering undergrowth.
Descend 22 ft. over NW. slope.

- 4.85 Gulch, course NE. Ascend 25 ft.
- 7.00 Low spur, slopes NE. Descend 34 ft.
- 8.40 Wash, course NE. Ascend 30 ft.
- 12.00 Descend 15 ft. over NW. slope.
- 13.65 Gulch, course N. Ascend 45 ft. over E. slope.
- 23.15 Spur, slopes N. Descend 80 ft. over W. slope.
- 26.90 Gulch, course N. Ascend 125 ft. over E. slope.
- 32.10 Spur, slopes N. Descend 26 ft. over W. slope.
- 38.20 Gulch, course N. Ascend 18 ft. over NE. slope to
- 39.97 Set an iron post, 3 ft. long, 1 in. in diam., 9 ins. in the
ground to bedrock, deposit a stone marked with a cross
(X) at base of post, and raise a mound of stone 5 ft.
base, 27 ins. high, around post, for 1/4 sec. cor., marked
on brass cap,



- 44.00 Ascend 5 ft. over NE. slope.
- 46.45 Spur, slopes NW. Descend 28 ft. over SW. slope.
- 49.10 Gulch, course NW. Ascend 23 ft. over NE. slope.
- 49.50 Spur, slopes NW. Descend 6 ft. over W. slope.
- Draw, course NW. Descend 77 ft. over N. slope.

Survey of the Subdivision Lines of
T.39 N., R.7 E.

chains

70.30

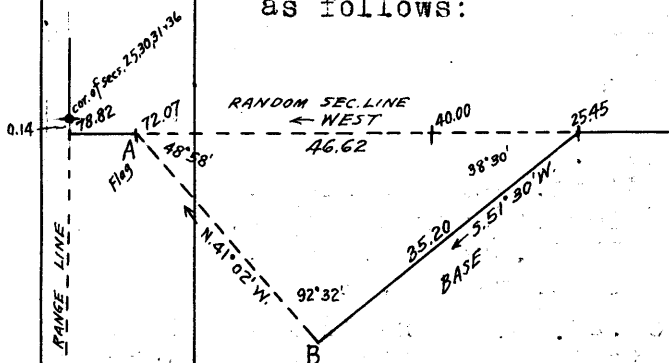
Spur, slopes NW. Descend 107 ft. over SW. slope to True point for cor. of secs. 29, 30, 31 and 32, in wash, course NW. (Wit. cor. 55 lks. N. 89° 54' W., hereinafter described)

Land, rolling and broken.
Soil, gravelly and rocky, 4th rate.
Timber, none.
Undergrowth, sagebrush and greasewood.

25.45

From true point for cor. of secs. 29, 30, 31 and 32, West, on random line, bet. secs. 30 and 31. East or left rim of Marble Canyon of the Colo. River, bears NE. and SW. Set temp. wit. cor. to 1/4 sec. cor. Discontinue chaining at this point and triangulate measurement of the random line across the canyon as follows:

Set flag "A" ahead on random line at West rim of canyon. From 25.45 ch. sta. measure a base S. 51° 30' W., 35.20 chs. along the east rim of the canyon to point "B" from which the flag "A" bears N. 41° 2' W. All bearings checked by direct reading of the solar and all angles checked by deflection.



Dist. chained on random line = 25.45 chs. West.
Dist. triang. across canyon = 46.62 " "
Total dist. to flag "A" = 72.07 chs. West.

40.00

Point for temp. 1/4 sec. cor. falls in Marble Canyon where it is inaccessible.

72.07

Triang. flag "A" at West or right rim of Marble Canyon, bearing NE. and SW.

Continue line and measurement by chaining.

78.82

Fall 14 lks. S. of the cor. of secs. 25, 30, 31 and 36 on the W. bdy. of the Tp., which is an iron post, 2 ins. in diam., projecting 3 ft. above ground, firmly set in a mound of stone, and properly marked on brass cap. No bearing trees.

Thence, S. 89° 54' E., on true line, bet. secs. 30 and 31. Over rolling and broken land, thru scattering undergrowth. Descend 40 ft. over SE. slope.

3.70

Wash, course S. Ascend 10 ft. over SW. slope to

6.75

West or right rim of Marble Canyon of the Colorado River, bears N. 30 1/4° E. and S. 58 1/4° W. Discontinue chaining. Measurement across canyon by triangulation as hereinbefore described.

Descend about 850 ft. over cliffs to

22.00

(Approx.) Center of Colorado River, about 7.50 chs. wide, course SW. Ascend about 850 ft. over cliffs to the East rim.

38.82

True point for 1/4 sec. cor. falls in the canyon where it is inaccessible and cannot be monumented, therefore a witness cor. is established at 14.55 chs. S. 89° 54' E. as hereinafter described.

53.37

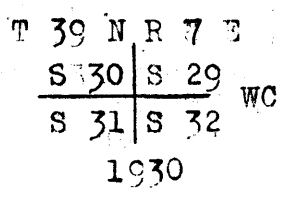
East or left rim of Marble Canyon, bears N. 51 1/2° E. and S. 51 1/2° W.

Set an iron post, 3 ft. long, 1 in. in diam., over a cross (X) marked on surface rock, and raise a mound of stone 5 1/2 ft. base, 3 ft. high, around post, for witness cor. to 1/4 sec. cor., marked on brass cap,

WC 1/4 — S 30
S 31
1930

Survey of the Subdivision Lines of BOOK 3898
T. 39 N., R. 7 E.

chains
 55.70 Leave canyon. Continue line and measurement by chaining.
 65.85 Over mountainous land. Descend 32 ft. over E. slope.
 71.35 Gulch, course N. Ascend 124 ft. over W. slope.
 76.10 Spur, slopes N. Descend 120 ft. over E. slope.
 78.27 Gulch, course NW. Ascend 125 ft. over SW. slope.
 Spur, slopes NW. Descend 42 ft. over NE. slope to sec.
 cor. point.
 Set an iron post, 3 ft. long, 2 ins. in diam., 8 ins. in the
 ground to bedrock, deposit a stone marked with a cross
 (X) at base of post, and raise a mound of stone 5 ft.
 base, 28 ins. high, around post, for witness cor. to
 the cor. of secs. 29, 30, 31 and 32, marked on brass cap.



78.82 True point for cor. of secs. 29, 30, 31 and 32 falls in wash, course NW., therefore establish witness cor. 55 lks. N. 89° 54' W. as described.

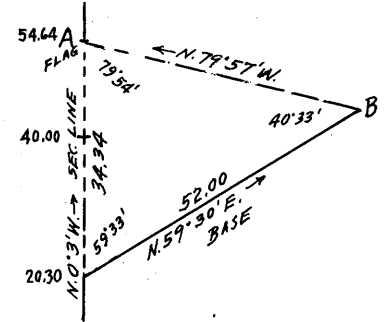
Land, mountainous.
 Soil, rocky, 4th rate.
 Timber, none.
 Undergrowth, sagebrush and greasewood.

From true point for cor. of secs. 29, 30, 31 and 32, N. 0° 3' W., on true line, bet. secs. 29 and 30. Over mountainous land, thru scattering undergrowth. Ascend 135 ft. over SW. slope.

14.60 Spur, slopes NW. Descend 50 ft. over N. slope to
 20.30 East or left rim of Marble Canyon, bears N. 59° 30' E. and S. 51° 30' W. Discontinue chaining. Descend about 800 ft. over cliffs to the Colo. River.

Measurement of sec. line across the canyon by triangulation as follows:

Set a flag "A" ahead on sec. line at West rim of canyon. From 20.30 ch. sta. measure a base N. 59° 30' E., 52.00 chs. along the left rim of the canyon to point "B", from which flag "A" bears N. 79° 57' W. All bearings checked by direct reading of the solar and all angles checked by deflection.



Dist. chained on sec. line = 20.30 chs. N. 0° 3' W.
 Dist. triang. across canyon = 34.34 " " "
 Total dist. to flag "A" = 54.64 chs. N. 0° 3' W.

38.00 (Approx.) Center of the Colorado River, about 7.00 chs. wide, course SW.

40.00 True point for 1/4 sec. cor. falls in the Colo. River, where it is inaccessible and cannot be monumented, therefore establish witness cor. 14.64 chs. N. 0° 3' W. as hereinafter described.

Ascend about 800 ft. over cliffs to
 54.64 Triang. flag "A" at West or right rim of Marble Canyon, bearing N. 75 1/2° E. and S. 70 1/2° W.
 Set an iron post, 3 ft. long, 1 in. in diam., 8 ins. in the ground to bedrock, over a cross (X) marked thereon, and raise a mound of stone 5 ft. base, 28 ins. high, around post, for witness cor. to 1/4 sec. cor., marked on brass cap.

Survey of the Subdivision Lines of
T.39 N., R.7 E.

chains

↑
S 30 | S 29
W C

1930

Continue line and measurement by chaining.
Over rolling land, thru scattering undergrowth.
Ascend 30 ft. over S. slope.

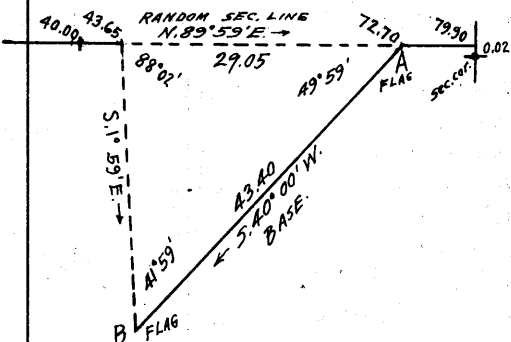
65.00 Spur, slopes SE. Descend 60 ft. over N. slope to
80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 20 ins. in the
ground to bedrock, deposit a stone marked with a cross
(X) at base of post, and raise a mound of stone 4 ft.
base, 16 ins. high, around post, for cor. of secs. 19, 20,
29 and 30, marked on brass cap,

T 39 N R 7 E
S 19 | S 20
S 30 | S 29

1930

Land, mountainous and rolling.
Soil, rocky and gravelly, 4th rate.
Timber, none.
Undergrowth, sagebrush and greasewood.

40.00 N. 89°59'E. on random line, bet. secs. 20 and 29.
Set temp. $\frac{1}{4}$ sec. cor.
43.65 West or right rim of Marble Canyon, bearing NE. and SW.
Discontinue chaining and triangulate measurement of
the random line across the canyon as follows:
Set a flag "A" ahead on random
line at East rim of canyon.
Set flag "B" on East rim at a
bearing of S. 1°59'E. from
43.65 ch. station and S. 40°00'W.
from flag "A".
Measure a base of 43.40 chs.
along E. rim between flags "A"
and "B".
All bearings checked by direct
reading of the solar and all
angles checked by deflection.



Dist. chained on random line = 43.65 chs. N. 89°59'E.
Dist. triang. on random line = 29.05 " " "
Total dist. to flag "A" = 72.70 chs. N. 89°59'E.

72.70 Triang. flag "A". Continue line and measurement by
chaining.
79.90 Fall 2 lks. N. of the cor. of secs. 20, 21, 28 and 29,
thence,
West, on true line, bet. secs. 20 and 29.
Over rolling land, thru scattering undergrowth.
Descend 50 ft. over SW. slope to
7.20 East or left rim of Marble Canyon, bearing N. 4°W. and
S. 40°W. Discontinue chaining. Measurement across
canyon by triangulation hereinbefore described.
Descend about 750 ft. over cliffs to
19.50 (Approx.) Center of Colorado River, about 7.00 chs. wide,
course SW. Ascend about 800 ft. over cliffs to
36.25 West or right rim of Marble Canyon, bearing N. 21½°E. and
S. 22°W.
Leave canyon, and continue line and measurement by
chaining, over rolling and broken land, thru scatter-
ing undergrowth. Ascend 16 ft. over E. slope.

Survey of the Subdivision Lines of
T. 39 N., R. 7 E.

BOOK 3898

chains
39.95

Set an iron post, 3 ft. long, 1 in. in diam., 2 ins. in the ground to bedrock, over a cross (X) marked thereon, and raise a mound of stone 5 ft. base, 34 ins. high, around post, for 1/4 sec. cor., marked on brass cap

S 20
1/4
S 29

1930

ascend 15 ft. over E. slope.

- 45.00 Low spur, slopes N. Descend 5 ft. over W. slope.
- 50.00 Draw, course N. Ascend 18 ft. over E. slope.
- 55.00 Spur, slopes N. Descend 32 ft. over W. slope.
- 60.35 Draw, course N. Ascend 40 ft. over E. slope.
- 66.48 Spur, slopes N. Descend 36 ft. over W. slope.
- 70.95 Draw, course N. Ascend 55 ft. over NE. and N. slopes to
- 79.90 The cor. of secs. 19, 20, 29 and 30.

Land, rolling and broken. 29 chs. mountainous in canyon. Soil, gravelly and rocky, 4th rate. Timber, none. Undergrowth, sagebrush and greasewood.

N. 89° 54' W., on random line, bet. secs. 19 and 30.

- 40.00 Set temp. 1/4 sec. cor.
- 78.73 Fall 5 lks. S. of the cor. of secs. 19, 24, 25 and 30, on the W. bdy. of the Tp., which is an iron post, 2 ins. in diam., projecting 3 ft. above ground, firmly set in a mound of stone, and properly marked on brass cap. No bearing trees.

Thence,

S. 89° 52' E., on true line, bet. secs. 19 and 30.

Over rolling and broken land, thru scattering undergrowth. Ascend 35 ft. over NW. slope.

- 20.00 Spur, slopes N. Descend 46 ft. over NE. slope.
- 37.50 Gulch, course N. Ascend 30 ft. over W. slope to
- 38.73 Set an iron post, 3 ft. long, 1 in. in diam., 30 ins. in the ground, for 1/4 sec. cor., marked on brass cap

S 19
1/4
S 30

1930

and raise mound of stone, 4 ft. base, 2 ft. high, N. of cor.

Ascend 62 ft. over NW. slope.

- 58.70 Spur, slopes N. Descend 25 ft. over NE. slope to
- 78.73 The cor. of secs. 19, 20, 29 and 30.

Land, rolling and broken. Soil, gravelly and rocky, 4th rate. Timber, none. Undergrowth, sagebrush and greasewood.

N. 0° 3' W., on true line, bet. secs. 19 and 20.

Over rolling land, thru scattering undergrowth. Descend 90 ft. over N. slope to

- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground to bedrock, over a cross (X) marked thereon, and raise a mound of stone 4 ft. base, 1 1/2 ft. high, around post, for 1/4 sec. cor., marked on brass cap

Survey of the Subdivision Lines of
T. 39. N., R. 7. E.

chains

$\frac{1}{4}$
 S 19 | S 20
 1930

51.00 Descend 90 ft. over N. slope.
 58.65 Gulch, course NE. Ascend 50 ft. over SE. slope.
 80.00 Spur, slopes NE. Descend 55 ft. over NW. slope to
 Set an iron post, 3 ft. long, 2 ins. in diam., 12 ins. in
 the ground to bedrock, over a cross marked thereon,
 and raise mound of stone, 4 ft. base, 2 ft. high, around
 post, for cor. of secs. 17, 18, 19 and 20, marked on brass
 cap.

T 39 N R 7 E
 S 18 | S 17
 S 19 | S 20
 1930

Land, rolling.
 Soil, gravelly and rocky, 4th rate.
 Timber, none.
 Undergrowth, sagebrush and greasewood.

40.00 East, on random line, bet. secs. 17 and 20.
 Set temp. $\frac{1}{4}$ sec. cor.
 77.45 Fall 2 lks. N. of triang. flag "C" set on West rim of the
 Marble Canyon in the triangulation of the line bet.
 secs. 20 and 21 as hereinbefore described. This flag
 was found to be due West from the sec. cor. point a
 distance of 2.51 chs.
 79.96 Discontinue chaining on random line.
 Fall 2 lks. N. of true point for cor. of secs. 16, 17, 20 and
 21 on face of cliffs on west wall of the Marble Can-
 yon.
 Thence,
 N. 89° 59' W., on true line, bet. secs. 17 and 20.
 Over mountainous land, in Marble Canyon.
 Measurement by triangulation, ascending about 500 ft.
 over cliffs to
 2.51 West or right rim of Marble Canyon, bearing NE. and SW.
 Set an iron post, 3 ft. long, 2 ins. in diam., 12 ins. in
 the ground to bedrock, over a cross (X) marked thereon,
 and raise a mound of stone 4 ft. base, 2 ft. high, around
 post, for witness cor. to cor. of secs. 16, 17, 20 and 21,
 marked on brass cap.

T 39 N R 7 E
 S 17 | S 16 WC
 S 20 | S 21
 1930

28.20 Leave canyon and enter rolling and broken land, and
 scattering undergrowth.
 Continue line and measurement by chaining.
 Ascend 95 ft. over broken NE. slope.
 39.98 Spur, slopes N. Descend 27 ft. over NW. slope to
 Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the
 ground to bedrock, over a cross (X) marked thereon,
 and raise a mound of stone 4 ft. base, 2 ft. high, around
 post, for $\frac{1}{4}$ secs. cor., marked on brass cap.

$\frac{1}{4}$ S 17
 S 20
 1930

Descend 30 ft. over NW. slope.

Survey of the Subdivision Lines of
T.39 N.;R.7 E.

BOOK 3898

chains
40.40
49.15
51.20
55.50
68.00
76.00
79.96

Gulch, course N. Ascend 46 ft. over NE. slope.
Point of spur, sloping N. Descend 67 ft. over NW. slope.
Gulch, course NW. Ascend 50 ft. over NE. slope.
Spur, slopes N. Descend 20 ft. over NW. slope to
Descend gradually over N. slope.
Spur, slopes NW. Descend 37 ft. over SW. slope to
The cor. of secs. 17, 18, 19 and 20.

Land rolling and broken.
Soil, gravelly and rocky, 4th rate.
Timber, none.
Undergrowth, sagebrush and greasewood.

40.00
78.66

N. 89° 52' W., on random line, bet. secs. 18 and 19.
Set temp. 1/4 sec. cor.
Intersect the cor. of secs. 13, 18, 19 and 24 on the West
bdy. of the Tp., which is an iron post, 2 ins. in diam.,
projecting 30 ins. above ground, firmly set in a mound
of stone, and properly marked on brass cap.
No bearing trees.

Thence,
S. 89° 52' E., on true line, bet. secs. 18 and 19.
Over rolling land, thru scattering undergrowth.
Descend 70 ft. over SE. slope.

22.15
38.66

Gulch, course NE. Ascend 75 ft. over NW. slope to
Set an iron post, 3 ft. long, 1 in. in diam., 15 ins. in the
ground to bedrock, over a cross (X) marked thereon,
and raise a mound of stone 4 ft. base, 21 ins. high,
around post, for 1/4 sec. cor., marked on brass cap

S 18

1/4 S 19

1930

46.00
50.05
58.00
67.30
71.40
78.66

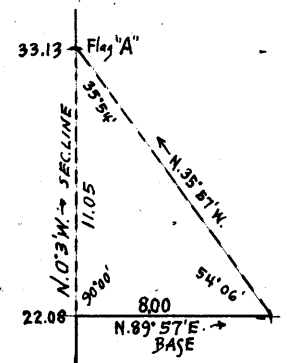
Ascend 15 ft. over NW. slope.
Spur, slopes NE. Descend 65 ft. over SE. slope.
Gulch, course NE. Ascend 50 ft. over NW. slope to
Gulch, course NW. Ascend 43 ft. over W. slope.
Spur, slopes NE. Descend 36 ft. over SE. slope.
Draw, course NE. Ascend 30 ft. over SW, slope to
The cor. of secs. 17, 18, 19 and 20.

Land, rolling and broken.
Soil, gravelly and rocky, 4th rate.
Timber, none.
Undergrowth, sagebrush and greasewood.

1.60
2.42
11.00
22.08

N. 0° 3' W., on true line, bet. secs. 17 and 18.
Over rolling land, thru scattering undergrowth.
Ascend slightly over SW. slope.
Point of spur, slopes NW. Descend 42 ft. over NW. slope.
Gulch, course NE. Ascend 40 ft. over SE. slope.
Spur, slopes E. Descend 35 ft. over N. slope to
South or right rim of Badger Canyon, bears NE. and SW.
(South fork of canyon) Descend about 300 ft. over
cliffs to S. Fork of Badger Creek.

Measurement across canyon by triangulation as follows;
Set flag "A" ahead on sec. line
at north rim of canyon.
From 22.08 ch. station chain
a base N. 89° 57' E., 8.00 chs.
From E. end of base the flag "A"
bears N. 35° 57' W.
All bearings checked by direct
reading of the solar and all
angles checked by deflection.



Survey of the Subdivision lines of
T.39 N., R.7 E.

chains
Dist. chained on sec. line = 22.08 chs. N. 0° 3' W.
Dist. triang. across canyon = 11.05 " "
Total dist. to flag "A" = 33.13 " "

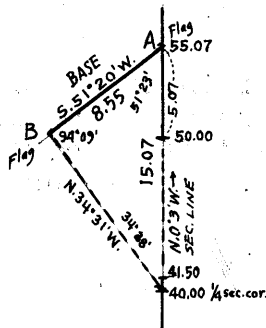
26.00 (Approx.) South Fork of Badger Creek (dry), course NE.
Ascend about 300 ft. over cliffs to

33.13 Triang. flag "A" at N. rim of South Fork of Badger
Canyon, bearing NE. and SW.
Continue line and measurement by chaining.
Leave canyon and enter rolling land.
Descend 54 ft. over N. slope to

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 4 ins. in the
ground to bedrock, over a cross (X) marked thereon,
and raise a mound of stone 5 ft. base, 32 ins. high,
around post, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$
S 18 | S 17
1930

41.50 Descend 5 ft. over N. slope to
South or right rim of North Fork of Badger Canyon, bears
E. and W. Discontinue chaining and triangulate
to a point on line beyond the North rim as follows:



Set flag "A" ahead on sec. line
on top of spur beyond the N.
rim of canyon.
From flag "A" chain a base
S. 51° 20' W., 8.55 chs. and set
flag "B" which bears N. 34° 31' W.
from the $\frac{1}{4}$ sec. cor.
All bearings checked by direct
reading of the solar and all
angles checked by deflection.

Dist. on sec. line to $\frac{1}{4}$ sec. cor. = 40.00 chs. N. 0° 3' W.
Dist. triang. from $\frac{1}{4}$ sec. cor. = 15.07 " "
Total dist. to flag "A" = 55.07 chs. N. 0° 3' W.
Return chaining to N. rim = 5.07 " S. 0° 3' E.
Dist. on sec. line to N. rim = 50.00 chs. N. 0° 3' W.

45.50 (Approx.) N. Fork of Badger Creek (dry) in bottom of the
canyon, course E., between cliffs, about 300 ft. below
the rims.

50.00 N. or left rim of North Fork of Badger Canyon, bears
E. and W. Leave canyon and enter rolling land.
Continue line and measurement by chaining.
Ascend 20 ft. over S. slope to

55.07 Triang. flag "A" on top of spur, sloping W.
Descend 66 ft. over NW. slope.

69.10 Wash, 100 lks. wide, course SW. Ascend 63 ft. over SE.
slope.

72.50 Point of spur, slopes E. Descend 25 ft. over NE. slope.
77.60 Same wash, course SE. Ascend 25 ft. over SW. slope.
78.30 Point of spur, slopes W. Descend 21 ft. over NW. slope to

80.00 True point for cor. of secs. 7, 8, 17 and 18 falls in same
wash, course SW. where it is impracticable to monument
the cor., therefore establish witness cor. 1.40 chs:
N. 0° 3' W. as hereinafter described.

Land, rolling, broken and mountainous.
Soil, gravelly and rocky, 4th rate.
Timber, none.
Undergrowth, sagebrush and greasewood.

40.00 From true point for cor. of secs. 7, 8, 17 and 18,
S. 89° 59' E., on random line, bet. secs. 8 and 17.
80.00 Set temp. $\frac{1}{4}$ sec. cor.
Fall 2 lks. S. of the cor. of secs. 8, 9, 16 and 17

Survey of the Subdivision Lines of
T. 39 N., R. 7 E.

chains	Thence, West, on true line, bet. secs. 8 and 17. Over rolling and broken land, thru scattering undergrowth. Descend 6 ft. over W. slope.
1.00	Wash, course N. Ascend 30 ft. over E. slope.
7.00	Spur, slopes N. Descend 30 ft. over W. slope.
18.80	Gulch, course N. Ascend 30 ft. over E. slope.
35.00	Spur, slopes N. Descend 15 ft. over NW. slope to
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground to bedrock, over a cross (X) marked thereon, and raise a mound of stone 4 ft. base, 1 1/2 ft. high, around post, for 1/4 sec. cor., marked on brass cap
	$\frac{1}{4} \frac{S 8}{S 17}$ 1930
45.00	Descend 15 ft. over NW. slope to Change to rolling SW. slope. Descend 30 ft. to sec. cor. point.
80.00	True point for cor. of secs. 7, 8, 17 and 18, in wash, 30 lks. wide, course SW. Witness cor. established 1.40 chs. N. 0° 3' W. as hereinafter described.
	Land, rolling and broken. Soil, gravelly and rocky, 4th rate. Timber, none. Undergrowth, sagebrush and greasewood.
40.00	From true point for cor. of secs. 7, 8, 17 and 18, N. 89° 52' W., on random line, bet. secs. 7 and 18.
78.60	Set temp. 1/4 sec. cor. Fall 2 lks. S. of the cor. of secs. 7, 12, 13 and 18 on the West bdy. of the Tp., which is an iron post, 2 ins. in diam., projecting 12 ins. above ground, firmly set, properly marked on brass cap, and witnessed by a mound of stone W. of cor. No bearing trees.
	Thence, S. 89° 51' E., on true line, bet. secs. 7 and 18. Over rolling land, thru scattering undergrowth. Ascend 16 ft. over SW. slope.
6.35	Spur, slopes SE. From this point, P.W. Johnson's house bears N. 14 1/2° E. I.E. Johnson's house bears N. 49 1/2° E. Price Johnson's house bears S. 35° E. about 35 chs. Descend 52 ft. over E. and SE. slopes to 1/4 sec. cor.
16.60	Road, bears NW. and SE.
23.00	Road, bears NW. and SE.
34.50	Road, bears NE. and SW.
38.60	Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground to bedrock, over a cross (X) marked thereon, and raise a mound of stone 4 ft. base, 1 1/2 ft. high, around post, for 1/4 sec. cor., marked on brass cap.
	$\frac{1}{4} \frac{S 7}{S 18}$ 1930
	from which
	I.E. Johnson's house bears N. 45 3/4° W. P.W. Johnson's house bears N. 48 1/2° W.
60.00	Ascend 15 ft. over S. and SW. slopes. Low spur, slopes S. Descend 30 ft. over SE. slope to
78.60	True point for cor. of secs. 7, 8, 17 and 18 in wash, 30 lks. wide, course SW. Witness cor. established 1.40 chs. N. 0° 3' W. as hereinafter described.

Survey of the Subdivision Lines of
T. 39 N., R. 7 E.

chains

Land, rolling.
Soil, sandy, 4th rate.
Timber, none.
Undergrowth, sagebrush, greasewood and cacti.

From true point for cor. of secs. 7, 8, 17 and 18,
N 0° 3' W., on true line, bet. secs. 7 and 8.

Over rolling land, thru scattering undergrowth.
Ascend slightly over SE. slope to

1.40 Set an iron post, 3 ft. long, 2 ins. in diam., 30 ins. in
the ground, for witness cor. to cor. of secs. 7, 8, 17
and 18, marked on brass cap.

T 39 N R 7 E	
S 7 S 8	
S 18 S 17	
W C	

1930

and raise mound of stone, 4 ft. base, 2 ft. high, W. of cor.

Ascend 36 ft. over SE. slope

2.20 Road, bears NE. to Canyon bridge and SW. to Grand Canyon
National Park.

20.00 Thence along E. slope ascending gradually.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 30 ins. in the
ground, for $\frac{1}{4}$ sec. cor., marked on brass cap

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

1930

dig pits, 12x12x12 ins., one each N. and S., 3 ft. dist.

Descend gradually over E. slope.

58.00 Descend 50 ft. over NE. slope.

77.00 Gulch, course E. Ascend 18 ft. over SE. slope to

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 18 ins. in
the ground to bedrock, over a cross (X) marked thereon,
and raise a mound of stone 4 ft. base, 1 $\frac{1}{2}$ ft. high,
around post, for cor. of secs. 5, 6, 7, and 8, marked on
brass cap,

T 39 N R 7 E	
S 6 S 5	
S 7 S 8	

1930

Land, rolling.

Soil, sandy and gravelly, 4th rate.

Timber, none.

Undergrowth, sagebrush, cacti and yuccas.

East, on random line, bet. secs. 5 and 8.

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

80.02 Intersect the cor. of secs. 4, 5, 8 and 9,

Thence,

West, on true line, bet. secs. 5 and 8.

Over rolling and broken land, thru scattering undergrowth.

Ascend slightly over NE. slope to

6.70 Descend 48 ft. over NW. slope

9.20 Wash, course NE. Ascend slightly to

11.70 Same wash, course SE. Ascend 55 ft. to

12.10 Top of steep bank, bears NW. and SE.

Survey of the Subdivision Lines of T. 39 N. R. 7 E.

BOOK 3898

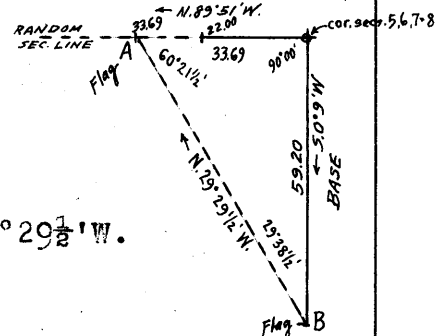
chains Ascend 56 ft. over NE. slope.
 40.01 Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground to bedrock, over a cross (X) marked thereon and raise a mound of stone 4 ft. base, 2 ft. high, around post, for $\frac{1}{4}$ sec. cor., marked on brass cap,

$$\frac{1}{4} \frac{S \ 5}{S \ 8}$$
 1930

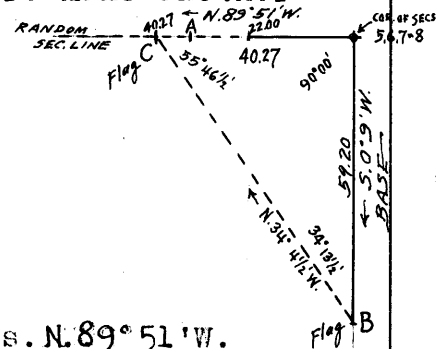
40.89 Descend 12 ft. over NW. slope.
 Wash, 10 lks. wide, course NE. Ascend 30 ft. over E. slope.
 49.50 Spur, slopes NE. Descend 30 ft. over NW. slope.
 57.30 Draw, course NE. Ascend 65 ft. over SE. slope.
 65.60 Thence over nearly level top of spur, sloping NE.
 66.63 Road, bears N. to Canyon Bridge and S. to Grand Canyon National Park.
 71.60 Descend 25 ft. over NW. slope.
 77.00 Gulch, course NE. Ascend 20 ft. over SE. slope to
 80.02 The cor. of secs. 5, 6, 7 and 8.

Land, rolling and broken.
 Soil, gravelly, rocky and sandy, 4th rate.
 Timber, none.
 Undergrowth, sagebrush, blackbrush and greasewood.

22.00 N. 89° 51' W., on random line, bet. secs. 6 and 7.
 Discontinue chaining at this point owing to cliffs ahead, and triangulate to point on line at top of the cliffs as follows:
 From cor. of secs. 5, 6, 7 and 8 line in a flag "A" at a bearing of N. 89° 51' W.; and another flag "B" at a bearing of S. 0° 9' W.
 Chained measurement of the base bet. sec. cor. and flag "B" is 59.20 chs. Bearing "B-A" = N. 29° 29 $\frac{1}{2}$ ' W.
 All bearings checked by direct reading of the solar and all angles checked by deflection.



33.69 Triangulated dist. sec. cor. to flag "A" = 33.69 chs.
 Flag "A" at top of cliffs and on point of spur, sloping S. Beyond this point the random line crosses a deep gulch, course S., with cliffs on both sides, over which chaining is impracticable, therefore make another triangulation as follows:
 Set a flag "C" ahead on line on spur sloping S., which bears N. 34° 4 $\frac{1}{2}$ ' W. from flag "B" at S. end of the base of the previous triangulation.
 Use the same base to compute dist. to flag "C".



40.27 Triang. dist. on random line bet. sec. cor. and flag "C" = 40.27 chs. N. 89° 51' W.
 Flag "C". Set temp. witness cor. to $\frac{1}{4}$ sec. cor. at this point as the true point for $\frac{1}{4}$ sec. cor. falls on face of cliffs where it is inaccessible.
 The surface conditions prevent chaining on the random line westerly from this point, therefore make another triangulation as follows:
 Set a flag "D" on the witness cor. to cor. of secs. 1, 6, 7 and 12 on the W. bdy. of the Tp., which bears N. 87° 11 $\frac{1}{2}$ ' W. from this point and N. 52° 00' W. from flag "B" of the previous triang.

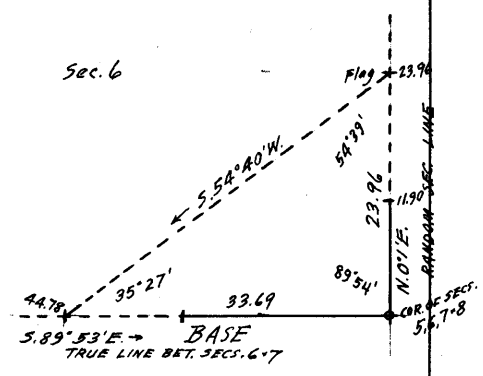
Survey of the Subdivision Lines of
T. 39 N., R. 7 E.

BOOK 3898

chains
56.47 Descend about 300 ft. over SE. face of cliffs to
Foot of cliffs, bearing NE. and SW.
Continue line and measurement by chaining.
78.47 Descend gradually over SE. slope to
The cor. of secs. 5, 6, 7 and 8.

Land, E. 22 chs. rolling, remainder, broken and mountainous.
Soil, gravelly and rocky, 4th rate.
Timber, none.
Undergrowth, sagebrush and greasewood.

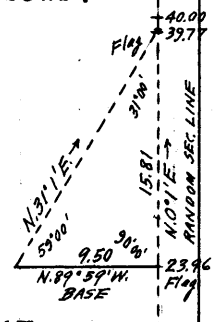
11.90 N. 0° 1' E., on random line, bet. secs. 5 and 6.
Foot of cliffs. Discontinue chaining and triangulate
measurement across cliffs to a point ahead on random
line as follows:
Set flag ahead on random line
on top of spur, sloping E.
From this flag, bearing to
44.78 ch. station on the line
bet. secs. 6 and 7 is S. 54° 40' W.
Use as a base the east 33.69
chs. of the sec. line bet. secs.
6 and 7.
All bearings checked by direct
reading of the solar, and all
angles checked by deflection.



23.96 Dist. triang. - sec. cor. to flag = 23.96 chs. N. 0° 1' E.
Triang. flag on spur sloping E. Beyond this point the
random line crosses a deep gulch course E. with
cliffs on both sides. Chaining is impracticable,
therefore make another triangulation as follows:
Measure a base N. 89° 59' W., 9.50 chs.
Set flag ahead on random line
or spur on opposite side of
the gulch.
From W. end of base the flag
bears N. 31° 1' E.
All bearings checked by direct
reading of the solar and all
angles checked by deflection.

Dist. by first triang. = 23.96 chs. N. 0° 1' E.
Dist. by this triang. = 15.81 " "

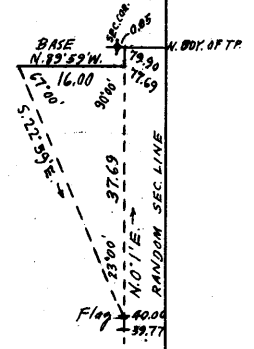
Total dist. on random line = 39.77 chs. N. 0° 1' E.



39.77
40.00 Triang. flag point. Chain N. 0° 1' E., 23 lks. to
Set temp. $\frac{1}{4}$ sec. cor. Beyond this point a series of
broken slopes and cliffs render chaining impracticable
therefore triangulate again as follows:
Set flag at this point.
From a point ahead on random line
and beyond the rough surface
measure a base N. 89° 59' W., 16.00 chs.
From west end of base the flag
bears S. 22° 59' E.
All bearings checked by direct
reading of the solar and all
angles checked by deflection.

Dist. on random line to temp.
 $\frac{1}{4}$ sec. cor. = 40.00 chs. N. 0° 1' E.
Dist. by this triang. = 37.69 " "

Total dist. on random line = 77.69 chs. N. 0° 1' E.



77.69 Triang. point. Continue line and measurement by chain-
ing.
79.90 Fall 5 lks. E. of the cor. of secs. 5, 6, 31 and 32 on the
N. bdy. of the Tp., which is an iron post, projecting
12 ins above ground, firmly set, properly marked on
brass cap, and witnessed by a mound of stone W. of
cor. No bearing trees.

Survey of the Subdivision Lines of
T. 39 N., R. 7 E.

chains Whence
S.0° 1'E., on true line, bet. secs. 5 and 6.
Over open rolling land.
Descend 60 ft. over SE. slope to
14.00 Discontinue chaining. Enter broken and mountainous land.
Descend about 70 ft. over SW. slope.
18.00 (Approx.) Gulch, course SE. Ascend about 120 ft. over
NE. slope.
25.00 (Approx.) Spur, slopes SE. Descend about 100 ft. over
SW. slope.
32.00 (Approx.) Gulch, course SE. Ascend about 100 ft. over
NE. slope.
34.00 (Approx.) Spur, slopes SE. Descend about 75 ft. over
SW. slope.
36.50 (Approx.) Gulch, course SE. Ascend about 200 ft. over
cliffs to
39.90 Spur, sloping SE. Set an iron post, 3 ft. long, 1 in. in
diam., 6 ins. in the ground to bedrock, over a cross (X)
marked thereon, and raise a mound of stone 5 ft. base,
2½ ft. high, around post, for ¼ sec. cor., marked on
brass cap,

¼
S 6 | S 5
1930

Descend about 250 ft. over cliffs.
47.00 (Approx.) Gulch, course E. Ascend about 300 ft. over
cliffs to
55.94 Triang. point on spur, sloping E.
Descend about 250 ft. over cliffs to
68.00 Foot of cliffs. Leave mountainous land, and enter rolling
land. Descend gradually over S. slope.
72.00 Draw, course SE. Descend gradually over SE. slope to
79.90 The cor. of secs. 5, 6, 7 and 8.

Land, rolling, broken and mountainous.
Soil, gravelly and rocky, 4th rate.
Timber, none.
Undergrowth, none.

Boundaries of Part (All except Sec. 31) of
Township 39 North, Range 7 East
Latitudes, departures, and Closing Errors.

Lines Designated	True Courses	Dists.	Latitudes		Departures	
			N.	S.	E.	W.
South Bdy.	West	400.00				400.00
Subdivisional Boundary	N.0° 3'W.	80.00	80.00			.07
	N.89° 54'W.	78.82	.14			78.82
West Bdy.	North	400.00	400.00			
North Bdy.	East	478.38			478.38	
East Bdy.	South	480.20		480.20		
Convergency					.51	
Totals			480.14	480.20	478.89	478.89
				480.14		478.89
Error in latitude.			0.06			
Error in departure.					0.00	

RIGHT BANK Down Stream.

From meander cor. of secs. 3 and 34, Ts. 39 & 40 N., R. 7 E., at mean high water mark of right bank of Colo. River, which is an iron post, 2 ins. in diam., projecting 1 in. above a mound of stone 5 ft. base, 35 ins. high, in which it is firmly set, and properly marked on brass cap,

- S. 26° 15' W., 25.20 chs. thence
- S. 11° 45' W., 19.00 chs. thence
- S. 51° 45' W., 27.40 chs. to true point for meander cor. of secs. 3 and 4 at 8.95 chs. S. 0° 1' W. from the witness cor. thereto, hereinbefore described, and 18.10 chs. S. 0° 1' W. from the true point for 1/4 sec. cor. of secs. 3 and 4.

Land, mountainous, canyon wall.
Soil, none.
Timber, none.
Undergrowth, none.

LEFT BANK Up Stream.

From true point for meander cor. of secs. 3 and 4 at the intersection of the subdivision line bet. said secs. and the mean high water mark of the left bank of the Colo. River, 8.40 chs. N. 0° 1' E. from the witness cor. thereto and 16.80 chs. N. 0° 1' E. from the cor. of secs. 3, 4, 9 and 10, both hereinbefore described,

- N. 61° 15' E., 25.85 chs. thence
- N. 30° 30' E., 12.80 chs. thence
- N. 22° 00' E., 42.80 chs. to true point for meander cor. of secs. 3 and 34, Ts. 39 and 40 N., R. 7 E. at intersection of the T. bdy. with the mean high water mark of the left bank of the Colo. River, 1.00 ch. west of the witness cor. thereto and 5.36 chs. east of the true point for 1/4 sec. cor. of secs. 3 and 34. The witness cor. is an iron post, 2 ins. in diam., the top of which is flush with top of a mound of stone 5 ft. base, 3 ft. high, in which it is firmly set. The brass cap is properly marked.

Land, mountainous, canyon wall.
Timber, none.
Soil, none.
Undergrowth, none.

Township 39 North, Range 7 East

FINAL TEST OF INSTRUMENT.

April 13, 1930:

at camp near the cor. of secs. 3, 4, 33 and 34, Ts. 39 and 40 N., R. 7 E., G. & S. R. B. & M., Arizona, latitude $36^{\circ}48'55''$ N., longitude $111^{\circ}39'20''$ W., examine the adjustment of Gurley transit No. 20120 used throughout the surveys hereinbefore described and correct all errors; then, to test the adjustment of the solar apparatus by comparing its indications resulting from solar observations made during a.m. and p.m. hours, with the meridian determined at this station by Polaris observations on February 27, 1930 as hereinbefore described, proceed as follows:

At 8h. Om., a.m., app. t., set off $36^{\circ}49'$ N. on the lat. arc, $8^{\circ}57'$ N. on the decl. arc, and determine a meridian with the solar, which agrees within 1' with the true meridian.

At apparent noon, with the lat. arc unchanged, observe the sun on the meridian, and obtain a reading of $9^{\circ}00'$ N. on the decl. arc which agrees with the computed declination of the sun.

At 4h. Om. p.m., app. t., with the lat. arc unchanged, set off $9^{\circ}4'$ N. on the decl. arc and determine a meridian with the solar which agrees within $1\frac{1}{2}'$ with the true meridian.

As all of the solar observations made during the usual hours of solar work define positions for meridian which agree within $1\frac{1}{2}'$ with the true meridian, conclude that the instrument has continued in satisfactory adjustment throughout the surveys described in the foregoing field notes.

GENERAL DESCRIPTION.

This township is situated in northern Arizona about twenty five miles south from the Utah-Arizona State Bdy. Thru it runs the Colorado River, from 460 to 860 ft. below the valley surface, in the bottom of Marble Canyon across which extends the recently constructed Canyon Bridge in the adjoining township near the 1/4 sec. cor. of secs. 3 and 34, Ts. 39 and 40 N., R. 7 E. The Colo. River flows southwesterly thru the township leaving at the southwest corner thereof.

Badger Canyon, Little Badger Canyon, and several other side canyons carry drainage from the northwest and southeast portions of the township into the Colo. River.

Echo Cliffs, from 850 to 1600 ft. in height, extend north and south thru the eastern part of the township, and part of the Vermillion Cliffs extend across the northwestern corner of the township. These gigantic, rainbow-hued, sandstone walls; themselves deposited by some prehistoric sea; were later the banks of a huge stream, whose bed was the floor of the valley below. Along the foot of these red sandstone cliffs, and on top of brown sandstone, projecting ledges, can still be seen the petrified remains of a once submerged forest.

A large spring of good water breaks out of the foot of Echo Cliffs in Sec. 24, and is known as Navaja Spring.

The soil is sandy and gravelly, frequently strewn with fragments of its former covering of sand and limestone. It supports a sparse growth of sagebrush, greasewood, blackbrush, grass and cacti. A scattering growth of juniper and pinon timber is prevalent along the crests of the cliffs, and on the mesas extending back therefrom.

The old road winding along the east side of the valley to the new bridge, and back along the west side, will soon be displaced by U.S. Highway No. 89, already located, and in process of construction, which will connect Flagstaff, Arizona with the North rim of the Grand Canyon in the National Park and on from Jacobs Lake in the Buckskin Mountains to Zion National Park and points in Utah.

There is an Indian Trading Post in the NW 1/4 of Sec. 2, the Vermilion Cliff Lodge in the NE of the NW 1/4 of Sec. 3, and some settlers improvements in the SW 1/4 of Sec. 7 near Badger Creek, which has a small stream of alkali water at that point.

There are no indications of valuable mineral in the township at this time.

The center of the Colorado River forms a portion of the boundary of the Navajo Indian Reservation, and all of that portion of this township situated east of the river is embraced within said reservation.

Traverse of the West Rim of Marble Canyon
of the Colorado River
in T.39 N., R.7 E.

Traverse thru sec. 3.

From point on W. rim 4.30 chs. W. of the meander cor. of
secs. 3 and 34, Ts. 39 & 40 N., R. 7 E.,
Over rolling and broken land, thru low undergrowth.

S. $33\frac{1}{2}^{\circ}$ W.,	5.50 chs.	
S. $16\frac{1}{2}^{\circ}$ W.,	21.00 "	
S. 30° W.,	10.70 "	
S. $49\frac{3}{4}^{\circ}$ W.,	23.48 "	to witness cor. to meander cor. of secs. 3 and 4, which is 8.95 chs. N. $0^{\circ} 1'$ E. from the true point therefor.

Land, rolling and broken.
Soil, gravelly and rocky 4th rate.
Timber, none.
Undergrowth, sagebrush, greasewood and grass.

Traverse thru sec. 4

Over rolling and broken land, thru low undergrowth.

S. 43° W.,	35.60 chs.	to junction with side canyon.
S. 72° W.,	16.35 "	across side canyon to the $\frac{1}{4}$ sec. cor. of secs. 4 & 9.

Land, rolling and broken.
Soil, gravelly and rocky, 4th rate.
Timber, none.
Undergrowth, sagebrush, greasewood and grass.

Traverse thru sec. 9

Over rolling and broken land, thru low undergrowth.

S. $59\frac{1}{4}^{\circ}$ E.,	15.65 chs.	
S. 40° E.,	8.80 "	
S. 9° E.,	23.00 "	
S. 14° W.,	13.50 "	
S. $19\frac{1}{2}^{\circ}$ W.,	31.35 "	to point on sec. line bet. secs. 9 and 16, at 8.90 chs. S. $89^{\circ} 58'$ E. from the $\frac{1}{4}$ sec. cor.

Land, rolling and broken.
Soil, gravelly and rocky, 4th rate.
Timber, none.
Undergrowth, sagebrush, blackbrush and grass.

Traverse thru sec. 16.

Over rolling and broken land, thru low undergrowth.

S. $14\frac{3}{4}^{\circ}$ W.,	22.60 chs.	
S. $43\frac{1}{4}^{\circ}$ W.,	20.10 "	
S. $47\frac{1}{2}^{\circ}$ W.,	18.20 "	
S. $49\frac{1}{2}^{\circ}$ W.,	20.90 "	to point on sec. line bet. secs. 16 & 17 at 22.42 chs. S. $0^{\circ} 3'$ E. from $\frac{1}{4}$ sec. cor.

Land, rolling and broken.
Soil, gravelly and rocky, 4th rate.
Timber, none.
Undergrowth, sagebrush, blackbrush and grass.

Traverse thru sec. 17.

Across mouth of Badger Canyon.

S. $8^{\circ} 5'$ W.,	17.75 chs.	to witness cor. to cor. of secs. 16, 17, 20 and 21 at 2.51 chs. N. $89^{\circ} 59'$ W. from sec. cor. point.
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Land, cliffs.
Soil, rocky, 4th rate.
Timber and undergrowth, none.

Traverse of the West Rim of Marble Canyon of the Colorado River

BOOK 3898

in T. 39 N., R. 7 E., G. & S. B.

Traverse through sec. 20. Over rolling land through scattering low undergrowth. S. 26° W., 25.60 chs. S. 21 1/2° W., 61.20 " to temporary point set on sec. line between secs. 20 and 29, 3.70 chs. east from the 1/4 sec. corner.

Land: rolling. Soil: gravelly, rocky, 4th rate. Timber: none. Undergrowth: sagebrush, blackbrush and greasewood.

Traverse through sec. 29. Over broken and rolling land, through scattering undergrowth. S. 22° W., 11.25 chs. S. 57 1/2° W., 14.75 " S. 75 1/2° W., 27.88 " to witness cor. to the 1/4 sec. cor. of secs. 29 and 30, set 14.64 chs. N. 0° 03' W., of true corner point.

Land: broken and rolling. Soil: gravelly, rocky, 4th rate. Timber: none. Undergrowth: sagebrush, blackbrush, and greasewood.

Traverse through sec. 30. Over rolling and broken land, through scattering undergrowth. S. 70 1/2° W., 19.00 chs. S. 52 1/2° W., 20.90 chs. S. 56° W., 13.50 " S. 50° W., 8.80 " S. 49 1/2° W., 17.20 " S. 30° 45' W., 12.74 " to temporary point set on sec. line between secs. 30 and 31, 6.75 chs. S. 89° 54' E., of the corner of secs. 25, 30, 31 and 36 on W. bdy. of Tp.

Land: rolling and broken. Soil: gravelly, rocky, 4th rate. Timber: none. Undergrowth: sagebrush, greasewood and grass.

Traverse through sec. 31. Over rolling land through scattering low undergrowth. S. 58 1/2° W., 9.05 chs. to temporary point set on the unsurveyed mile of the W. bdy. of the Tp., 4.18 chs. S. of the corner for secs. 25, 30, 31 and 36 on the W. bdy. of Tp.

Land: rolling and broken. Soil: gravelly, rocky, 4th rate. Timber: none. Undergrowth: sagebrush, blackbrush and grass.

Traverse through sec. 36, T. 39 N., R. 6 E. Over rough canyon of Soap Creek, scattering undergrowth. S. 12° W., 68.10 chs. S. 52° W., 15.00 " to temporary point on S. bdy. sec. 36, set 15.00 chs. E. of the 1/4 sec. cor. of secs. 1 and 36.

Land: rough mountainous. Soil: rocky, 4th rate. Timber: none. Undergrowth: sagebrush and blackbrush.

Traverse of the East Rim of Marble Canyon
Colorado River

in T. 39 N., R. 7 E., G. & S. R.

Traverse through sec. 31 from a temporary point set on S. boundary of township between secs. 6 and 31 at a point 14.20 chs. W. of the $\frac{1}{4}$ sec. cor.

Over rolling and broken land through scattering undergrowth.

N. 10° E.,	19.25 chs.
N. 18 $\frac{1}{2}$ ° W.,	20.70 "
N. 3° W.,	7.60 "
N. 6 $\frac{1}{4}$ ° E.,	7.40 "
N. 40° 45' E.,	6.00 "
N. 51 $\frac{1}{2}$ ° E.,	35.20 "

to witness corner to the $\frac{1}{4}$ sec. corner of secs. 30 and 31, set 14.55 chs. S. 89° 54' E., of the true point for the corner.

Land: rolling and broken.

Soil: gravelly, rocky, 4th rate.

Timber: none.

Undergrowth: sagebrush, greasewood and blackbrush.

Traverse through sec. 30.

Over broken land through scattering undergrowth.

N. 51 $\frac{1}{2}$ ° E.,	32.52 chs.	to temporary point on sec. line bet. secs. 29 and 30, at 20.30 chs. N. 0° 03' W. from corner of secs. 29, 30, 31 and 32.
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Land: rolling and broken.

Soil: gravelly, rocky, 4th rate.

Timber: none.

Undergrowth: sagebrush, greasewood and blackbrush.

Traverse through sec. 29.

Over rolling land through scattering low undergrowth.

N. 59 $\frac{1}{2}$ ° E.,	52.00 chs.	
N. 40° E.,	43.40 "	to temporary point on sec. line bet. secs. 20 and 29, at 7.20 chs. W. of the corner of secs. 20, 21, 28 and 29.

Land: rolling.

Soil: gravelly, rocky, 4th rate.

Timber: none.

Undergrowth: sagebrush, blackbrush and greasewood.

Traverse through sec. 20.

Over rolling and broken land through scattering undergrowth.

N. 4° W.,	9.60 chs.
N. 5 $\frac{1}{2}$ ° E.,	5.20 "
N. 14 $\frac{1}{2}$ ° E.,	5.50 "
N. 25 $\frac{1}{2}$ ° E.,	4.70 "
N. 30 $\frac{1}{4}$ ° E.,	7.85 "

to witness corner to the $\frac{1}{4}$ sec. corner of secs. 20 and 21, set 8.90 chs. S. 0° 03' E., from the true point for the $\frac{1}{4}$ sec. cor.

Land: rolling and broken.

Soil: gravelly, rocky, 4th rate.

Timber: none.

Undergrowth: sagebrush, blackbrush and greasewood.

Traverse through sec. 21.

Over rolling and broken land, through scattering undergrowth.

N. 30 $\frac{1}{2}$ ° E.,	41.96 chs.	to edge of Little Badger Canyon.
N. 51 $\frac{1}{2}$ ° E.,	20.46 "	across canyon to temporary point on sec. line bet. secs. 16 and 21 at 2.71 chs. West of the $\frac{1}{4}$ sec. cor. of secs. 16 and 21.

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Land: rolling and broken.
Soil: rocky, gravelly, 4th rate.
Timber: none.
Undergrowth: sagebrush, blackbrush and greasewood.

Traverse through sec. 16.

Over rolling land, through scattering undergrowth.
N. $41\frac{1}{4}^\circ$ W., 10.60 chs.
N. 6° E., 1.50 "
N. 45° E., 35.40 "
N. 6° E., 3.60 "
N. $8^\circ 45'$ E., 39.50 "
N. $30^\circ 45'$ E., 5.60 " to temporary point on sec.
line bet. secs. 9 and 16,
at 8.68 chs. N. $89^\circ 58'$ W.,
of the corner of secs. 9,
10, 15 and 16.

Land: rolling and broken.
Soil: gravelly, rocky, 4th rate.
Timber: none.
Undergrowth: sagebrush, blackbrush and grass.

Traverse through sec. 9, (portion)

Over rolling and broken land, through scattering low under-
growth.
N. 23° E., 17.65 chs.
N. $11\frac{1}{2}^\circ$ E., 8.70 chs. to temporary point on sec.
line bet. secs. 9 and 10,
at 24.79 chs. N. $0^\circ 02'$ W.,
of the corner of secs. 9,
10, 15 and 16.

Land: rolling and broken.
Soil: gravelly, rocky, 4th rate.
Timber: none.
Undergrowth: greasewood and sagebrush.

Traverse through sec. 10.

Over broken, rocky land, through scattering undergrowth.
N. $7^\circ 52'$ E., 15.36 chs. To witness corner to the $\frac{1}{4}$
sec. corner of secs. 9
and 10.
N. $5^\circ 08'$ W., 23.65 chs. to temporary point on sec.
line bet. secs. 9 and 10,
at 16.44 chs. S. $0^\circ 02'$ E.,
from sec. corner of secs.
3, 4, 9 and 10.

Land: rolling and broken.
Soil: gravelly, rocky, 4th rate.
Timber: none.
Undergrowth: sagebrush, blackbrush and grass.

Traverse through sec. 9, (portion)

Over rocky broken land, through scattering undergrowth.
N. $14^\circ 35'$ W., 16.98 chs. to temporary point on sec.
line bet. secs. 4 and 9,
at 4.28 chs. N. $89^\circ 54'$ W.,
of the corner of secs. 3,
4, 9 and 10.

Land: broken.
Soil: rocky, gravelly, 4th rate.
Timber: none.
Undergrowth: sagebrush.

Traverse through sec. 4.

Over rolling land, through scattering undergrowth.
N. 27° E., 9.43 chs. to the witness corner to the
meander corner of

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secs. 3 and 4, set 8.40 chs.
S. 0° 01' W., from true point
for meander corner and 8.40
chs. N. 0° 01' E., from the
corner of secs. 3, 4, 9 and
10.

Land: rolling.
Soil: rocky, gravelly, 4th rate.
Timber: none.
Undergrowth: sagebrush, blackbrush and grass.

Traverse through sec. 3.
Over broken and rolling land, through scattering undergrowth.
N. 56° 24' E., 28.92 chs.
N. 21° 43' E., 59.80 chs. to the witness corner
to the meander corner of
secs. 3 and 34 set on the N.
boundary of the township, at
1.00 chs E. of true point for
meander corner and 33.64 chs.
W. of the corner of secs. 2
3, 34 and 35.

Land: rolling and broken.
Soil: gravelly, rocky, 4th rate.
Timber: none.
Undergrowth: sagebrush, and grass.

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CERTIFICATE OF UNITED STATES SURVEYOR.

I, Karl L. Siebecker, U. S. Surveyor, hereby certify upon honor that, in pursuance of special instructions received from the District Cadastral Engineer, for Group 158, Arizona bearing date of the 28th day of May, 1929, I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____
the East and South Boundaries,
Subdivision Lines,
Meanders of Right and Left Banks of the Colorado River,
and the East and West Rims of Marble Canyon of the Colorado River
of and within Township 39 North, Range 7 East of the Gila and Salt
River Base and Meridian, in the State of Arizona, which are represented in the foregoing field notes ^{and by diagram on page 2 hereof} as having been executed by me, and under my direction; and that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the District Cadastral Engineer, for Group 158, Arizona and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Karl L. Siebecker
 Place: San Francisco, Cal. U. S. Surveyor.
 Date: Sept. 19, 1930

APPROVAL

OFFICE OF U. S. SUPERVISOR OF SURVEYS,

Denver, Colo., Feb. 24, 1931

The foregoing field notes of the survey of the East Boundary. Part of the South
Boundary, and All of the Subdivision Lines of Township 39 North,
Range 7 East, the Meanders of the Right and Left Banks of the Colo.
River within Sec. 3, T. 39 N., R. 7 E., and Traverse of the East and
West Rims of Marble Canyon of the Colorado River within
Township 39 North, Range 7 East
of the Gila and Salt River Base and Meridian, in the State of Arizona
 executed by Karl L. Siebecker, U.S. Surveyor

under his special instructions dated May 28, 1929, for Group 158, Arizona, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Wm. H. Dutton
 U. S. Supervisor of Surveys.

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

~~U. S. Supervisor of Surveys.~~